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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

NVLAP
NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 15 foot mounting height.



REPORT NUMBER: ITL80201
ISSUE DATE: 12/19/13 PAGE: 1 OF 8
PREPARED FOR: RAB LIGHTING, INC.
CATALOG NUMBER: ALED5T78N (TYPE V)
LUMINAIRE: CAST BROWN PAINTED METAL POST
TOP FITTER WITH 3 FABRICATED BROWN
PAINTED METAL VERTICAL POSTS, CAST 2-
PIECE BROWN PAINTED FINNED METAL
HOUSING, 6 CAST METAL HEAT
SINKS/CIRCUIT BOARD MOUNTING BRACKETS,
6 CIRCUIT BOARDS EACH WITH 1 LED AND
MOLDED PLASTIC CIRCUIT BOARD PERIMETER
OVERLAY WITH SPECULAR FINISH, MOLDED
PLASTIC REFLECTOR WITH SPECULAR FINISH
AND 1 APERTURE PER LED, CLEAR FLAT
GLASS LENS IN CAST BROWN PAINTED METAL
FRAME.

LAMPS: SIX WHITE MULTI-CHIP LIGHT
EMITTING DIODES (LEDs), AIMED 5-
DEGREES BELOW THE HORIZON.
TOTAL INPUT WATTS = 89.5 AT 120.0 VOLTS
LED DRIVERS: THREE RAB RDF25U7-02
NOTE: DATA SHOWN IS ABSOLUTE FOR THE
SAMPLE PROVIDED AT RATED INPUT VOLTAGE
(120VAC, 60Hz) TO THE DRIVERS. DRIVER
INFORMATION PROVIDED BY CLIENT.
TEST PROCEDURE: IESNA LM-79-08
TEST DISTANCE = 35.0 FEET

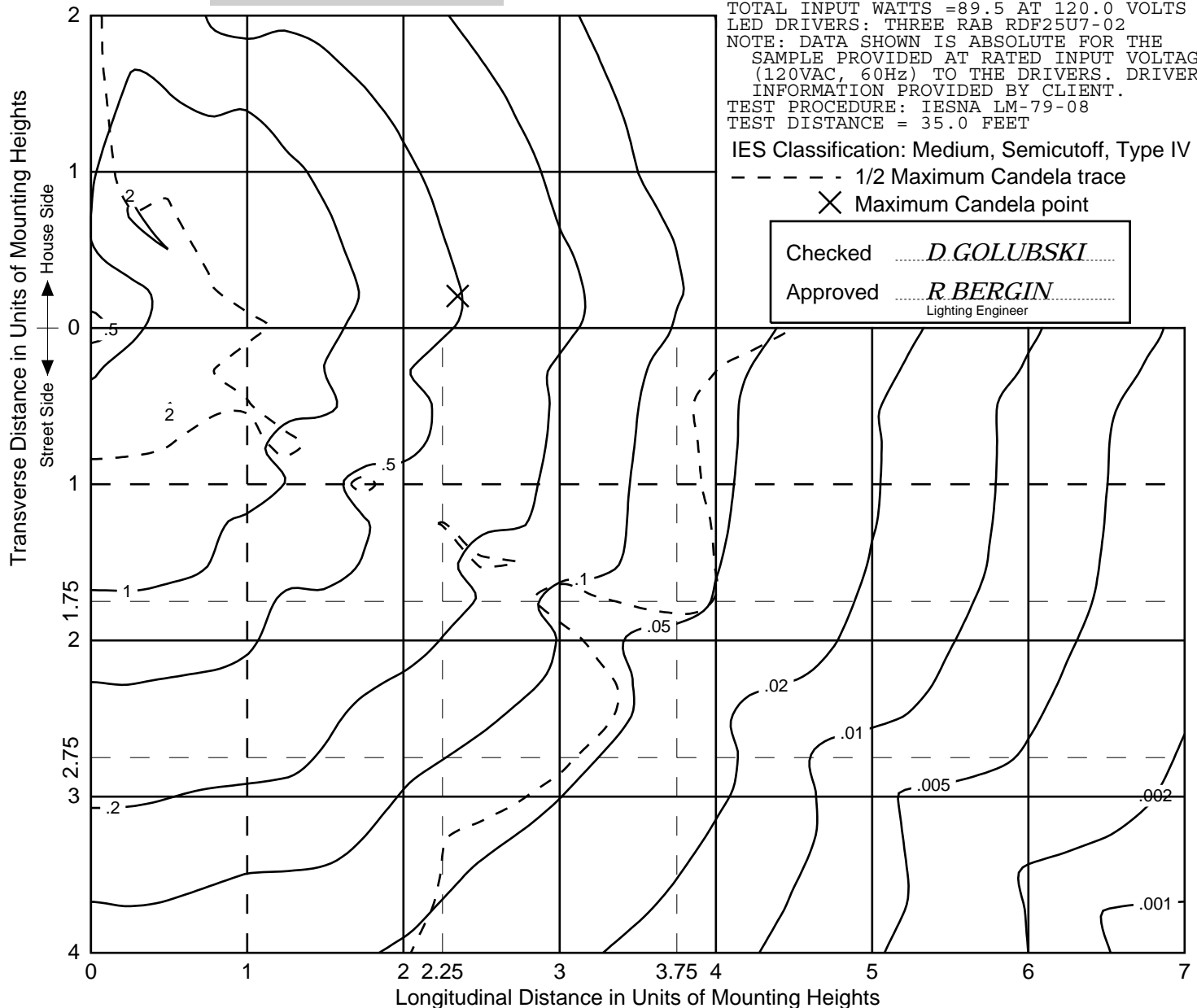
IES Classification: Medium, Semicutoff, Type IV

--- 1/2 Maximum Candela trace

X Maximum Candela point

Checked D. GOLUBSKI

Approved R. BERGIN
Lighting Engineer



REPORT NUMBER: ITL80201

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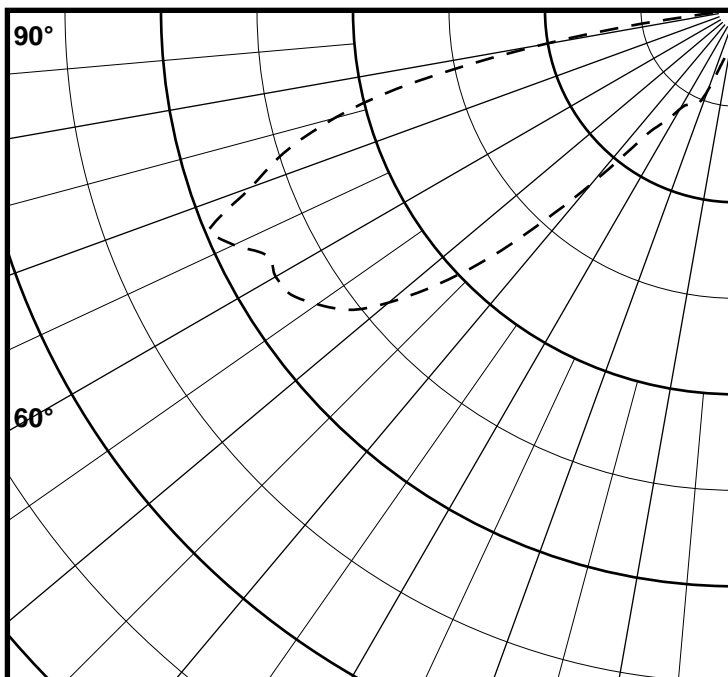
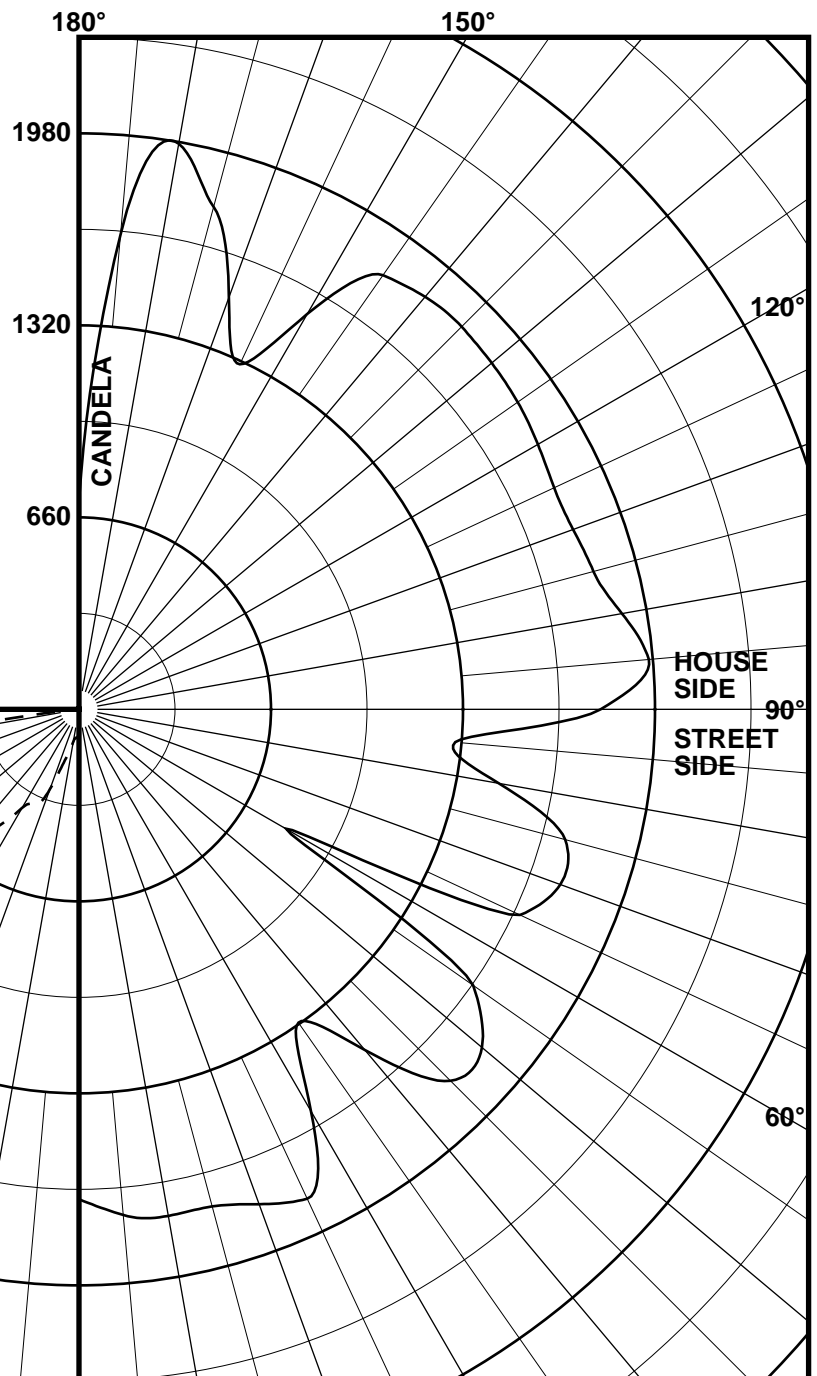
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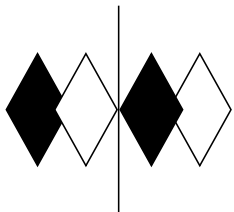
TEST DISTANCE = 35.0 FEET

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA



VERTICAL PLANE THROUGH MAXIMUM CANDELA
67.0 (Degrees Vertical)

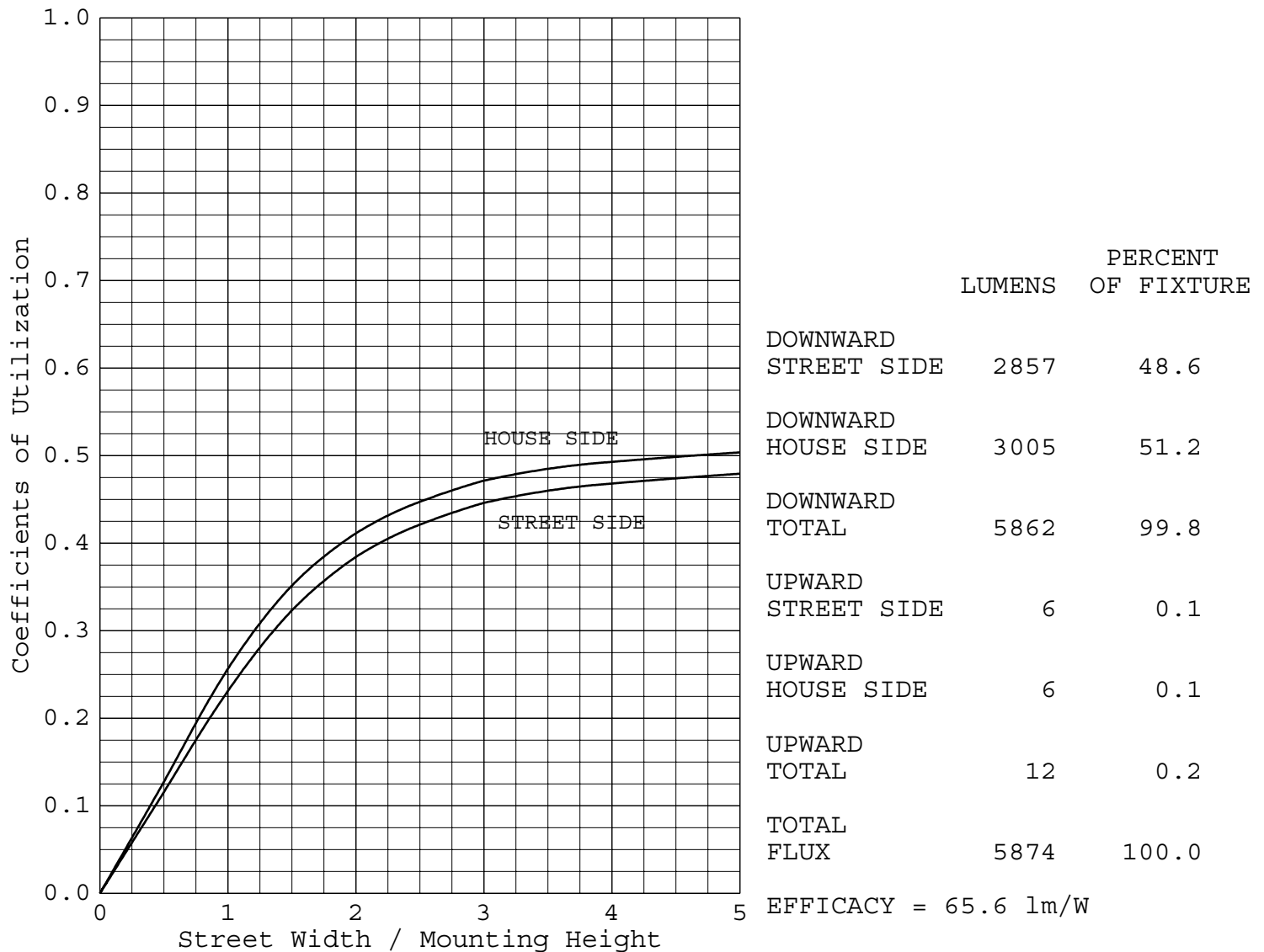
CONE THROUGH MAXIMUM CANDELA
95.0 (Degrees Horizontal) = 1966



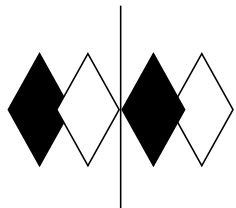
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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



ALL CANDELA AND LUMENS IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY.
THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE
LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.



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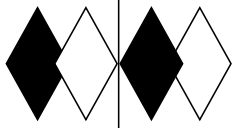
FLUX DISTRIBUTION BY SOLID ANGLE

(PER IESNA TM-15-11, LUMINAIRE CLASSIFICATION
SYSTEM FOR OUTDOOR LUMINAIRES)

| | LUMENS | PERCENT OF FIXTURE | BUG ZONE RATINGS |
|---------------|--------|--------------------------|------------------------|
| FORWARD LIGHT | 2857. | 48.6 | |
| FL (0- 30) | 138.8 | 2.4 | |
| FM (30- 60) | 1287.1 | 21.9 | |
| FH (60- 80) | 1363.8 | 23.2 | G1 |
| FVH(80- 90) | 67.1 | 1.1 | G1 |
| BACK LIGHT | 3005. | 51.2 | |
| BL (0- 30) | 130.1 | 2.2 | B1 |
| BM (30- 60) | 1348.8 | 23.0 | B2 |
| BH (60- 80) | 1443.9 | 24.6 | B3 G1 |
| BVH(80- 90) | 82.1 | 1.4 | G1 |
| UPLIGHT | 12. | 0.2 | |
| UL (90-100) | 6.4 | 0.1 | U1 |
| UH (100-180) | 5.6 | 0.1 | U1 |
| TRAPPED LIGHT | 0. | 0.0 | |
| TOTAL FLUX | 5874. | 100.0 | |

BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS
(PER ADDENDUM A FOR IESNA TM-15-11)

BUG RATING: B3 U1 G1



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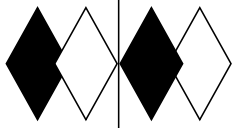
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CANDELA TABULATION

| | STREET SIDE | | | | | LATERAL ANGLE | | | | | | |
|---|-------------|-------|-------|-------|-------|---------------|-------|-------|------|-------|-------|-------|
| | 0.0 | 5.0 | 15.0 | 25.0 | 35.0 | 45.0 | 55.0 | 60.0 | 65.0 | 75.0 | 85.0 | |
| | 180.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| | 175.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| | 165.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| | 155.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| | 145.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| | 135.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| | 125.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| | 115.0 | 1. | 1. | 1. | 1. | 0. | 1. | 1. | 1. | 1. | 1. | |
| | 105.0 | 3. | 3. | 3. | 4. | 3. | 6. | 6. | 6. | 5. | 5. | 2. |
| | 95.0 | 5. | 5. | 6. | 7. | 4. | 7. | 7. | 7. | 7. | 7. | 4. |
| | 92.5 | 6. | 6. | 7. | 7. | 5. | 7. | 7. | 7. | 6. | 7. | 4. |
| | 90.0 | 8. | 8. | 7. | 7. | 5. | 6. | 6. | 6. | 7. | 7. | 4. |
| | 87.5 | 26. | 23. | 17. | 17. | 16. | 14. | 17. | 15. | 20. | 15. | 18. |
| | 85.0 | 53. | 47. | 41. | 40. | 34. | 33. | 46. | 31. | 48. | 39. | 39. |
| V | 82.5 | 205. | 174. | 175. | 181. | 160. | 165. | 151. | 85. | 167. | 183. | 176. |
| E | 80.0 | 552. | 538. | 594. | 622. | 545. | 536. | 425. | 268. | 497. | 554. | 492. |
| R | 77.5 | 888. | 969. | 975. | 1013. | 844. | 852. | 822. | 529. | 928. | 862. | 767. |
| T | 75.0 | 1205. | 1282. | 1142. | 1349. | 1046. | 1142. | 1240. | 759. | 1284. | 1082. | 1026. |
| I | 72.5 | 1472. | 1473. | 1385. | 1646. | 1265. | 1324. | 1416. | 801. | 1470. | 1309. | 1286. |
| C | 70.0 | 1637. | 1638. | 1646. | 1695. | 1325. | 1528. | 1476. | 777. | 1610. | 1599. | 1386. |
| A | 67.5 | 1660. | 1728. | 1784. | 1823. | 1307. | 1765. | 1634. | 826. | 1675. | 1713. | 1309. |
| L | 67.0<< | 1684. | 1745. | 1769. | 1856. | 1315. | 1806. | 1654. | 822. | 1673. | 1730. | 1298. |
| | 65.0 | 1737. | 1790. | 1733. | 1901. | 1329. | 1784. | 1581. | 776. | 1603. | 1734. | 1308. |
| A | 62.5 | 1727. | 1805. | 1730. | 1852. | 1239. | 1711. | 1492. | 800. | 1587. | 1713. | 1224. |
| N | 60.0 | 1693. | 1743. | 1717. | 1812. | 1146. | 1711. | 1426. | 775. | 1528. | 1682. | 1124. |
| G | 57.5 | 1608. | 1660. | 1656. | 1803. | 1120. | 1654. | 1353. | 711. | 1433. | 1647. | 1100. |
| L | 55.0 | 1541. | 1575. | 1597. | 1765. | 1116. | 1609. | 1300. | 641. | 1343. | 1599. | 1085. |
| E | 52.5 | 1483. | 1481. | 1531. | 1675. | 1118. | 1555. | 1217. | 589. | 1230. | 1535. | 1079. |
| | 50.0 | 1432. | 1408. | 1464. | 1545. | 1126. | 1471. | 1131. | 578. | 1134. | 1454. | 1060. |
| | 47.5 | 1339. | 1325. | 1368. | 1363. | 1084. | 1373. | 1071. | 567. | 1060. | 1372. | 1036. |
| | 45.0 | 1268. | 1243. | 1226. | 1172. | 1040. | 1248. | 1016. | 553. | 1007. | 1250. | 1009. |
| | 42.5 | 1148. | 1098. | 1103. | 991. | 990. | 1125. | 940. | 517. | 923. | 1127. | 970. |
| | 40.0 | 976. | 958. | 1025. | 778. | 921. | 1048. | 837. | 486. | 825. | 1037. | 912. |
| | 37.5 | 860. | 869. | 940. | 616. | 841. | 979. | 764. | 444. | 752. | 944. | 848. |
| | 35.0 | 707. | 753. | 822. | 506. | 756. | 844. | 662. | 393. | 665. | 834. | 769. |
| | 30.0 | 502. | 506. | 604. | 393. | 657. | 678. | 492. | 311. | 481. | 668. | 627. |
| | 25.0 | 398. | 394. | 324. | 384. | 517. | 533. | 380. | 269. | 373. | 523. | 496. |
| | 20.0 | 245. | 232. | 176. | 295. | 402. | 428. | 286. | 271. | 309. | 368. | 408. |
| | 15.0 | 199. | 199. | 190. | 195. | 211. | 209. | 199. | 195. | 187. | 198. | 192. |
| | 10.0 | 151. | 149. | 137. | 124. | 120. | 135. | 142. | 145. | 144. | 141. | 110. |
| | 5.0 | 126. | 122. | 110. | 98. | 95. | 106. | 110. | 111. | 109. | 99. | 94. |
| | 0.0 | 72. | 72. | 72. | 72. | 72. | 72. | 72. | 72. | 72. | 72. | 72. |

CONE OF MAXIMUM CANDELA



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CANDELA TABULATION

| | HOUSE SIDE | | LATERAL ANGLE | | | | | | | | | |
|----------|--------------------------|-------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| | 90.0 | 95.0 | 105.0 | 115.0 | 125.0 | 135.0 | 145.0 | 155.0 | 165.0 | 175.0 | 180.0 | |
| | | | | | | | | | | | | |
| 180.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 175.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 165.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 155.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 145.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 135.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 125.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | |
| 115.0 | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | 1. | |
| 105.0 | 4. | 4. | 4. | 3. | 3. | 4. | 5. | 3. | 6. | 6. | 6. | |
| 95.0 | 4. | 6. | 6. | 5. | 5. | 7. | 7. | 4. | 7. | 6. | 7. | |
| 92.5 | 4. | 6. | 6. | 6. | 7. | 8. | 7. | 4. | 7. | 6. | 6. | |
| 90.0 | 4. | 7. | 7. | 8. | 9. | 8. | 7. | 5. | 6. | 6. | 6. | |
| 87.5 | 18. | 22. | 19. | 23. | 24. | 21. | 20. | 16. | 16. | 19. | 16. | |
| 85.0 | 65. | 55. | 43. | 54. | 57. | 51. | 53. | 45. | 41. | 44. | 40. | |
| V 82.5 | 259. | 238. | 219. | 238. | 225. | 224. | 252. | 214. | 220. | 210. | 117. | |
| E 80.0 | 623. | 684. | 558. | 643. | 606. | 586. | 767. | 573. | 584. | 616. | 331. | |
| R 77.5 | 978. | 1123. | 942. | 1052. | 1164. | 948. | 1100. | 835. | 869. | 1050. | 549. | |
| T 75.0 | 1268. | 1432. | 1179. | 1224. | 1277. | 1187. | 1275. | 988. | 1033. | 1188. | 638. | |
| I 72.5 | 1557. | 1635. | 1375. | 1356. | 1398. | 1413. | 1528. | 1121. | 1272. | 1246. | 715. | |
| C 70.0 | 1733. | 1778. | 1728. | 1742. | 1600. | 1642. | 1750. | 1183. | 1600. | 1473. | 789. | |
| A 67.5 | 1792. | 1963. | 1856. | 1806. | 1810. | 1828. | 1837. | 1300. | 1788. | 1637. | 734. | |
| L 67.0<< | 1793. | 1966. | 1831. | 1802. | 1841. | 1860. | 1822. | 1309. | 1788. | 1639. | 718. | |
| 65.0 | 1815. | 1908. | 1771. | 1844. | 1847. | 1827. | 1768. | 1205. | 1748. | 1703. | 696. | |
| A 62.5 | 1732. | 1822. | 1756. | 1818. | 1821. | 1732. | 1781. | 1122. | 1742. | 1687. | 718. | |
| N 60.0 | 1632. | 1831. | 1709. | 1727. | 1760. | 1707. | 1823. | 1126. | 1715. | 1604. | 703. | |
| G 57.5 | 1507. | 1818. | 1665. | 1664. | 1665. | 1661. | 1811. | 1117. | 1660. | 1482. | 659. | |
| L 55.0 | 1387. | 1761. | 1582. | 1575. | 1588. | 1597. | 1757. | 1082. | 1604. | 1384. | 598. | |
| E 52.5 | 1228. | 1691. | 1501. | 1505. | 1492. | 1517. | 1686. | 1057. | 1537. | 1288. | 566. | |
| 50.0 | 1075. | 1563. | 1419. | 1400. | 1398. | 1447. | 1575. | 1054. | 1461. | 1194. | 551. | |
| 47.5 | 942. | 1394. | 1330. | 1311. | 1320. | 1360. | 1394. | 1045. | 1371. | 1119. | 536. | |
| 45.0 | 799. | 1202. | 1209. | 1220. | 1240. | 1234. | 1189. | 1025. | 1239. | 1053. | 546. | |
| 42.5 | 739. | 981. | 1089. | 1067. | 1082. | 1109. | 973. | 1005. | 1129. | 940. | 520. | |
| 40.0 | 652. | 779. | 1008. | 930. | 946. | 1028. | 737. | 956. | 1051. | 829. | 479. | |
| 37.5 | 580. | 604. | 927. | 847. | 854. | 949. | 584. | 861. | 979. | 757. | 452. | |
| 35.0 | 533. | 496. | 806. | 772. | 760. | 813. | 504. | 765. | 822. | 655. | 388. | |
| 30.0 | 539. | 392. | 638. | 486. | 461. | 635. | 398. | 649. | 663. | 473. | 301. | |
| 25.0 | 481. | 361. | 315. | 371. | 363. | 292. | 384. | 512. | 530. | 361. | 275. | |
| 20.0 | 356. | 292. | 176. | 258. | 290. | 188. | 251. | 388. | 388. | 273. | 237. | |
| 15.0 | 181. | 175. | 182. | 207. | 218. | 217. | 196. | 224. | 207. | 194. | 183. | |
| 10.0 | 114. | 113. | 145. | 154. | 155. | 148. | 141. | 136. | 144. | 149. | 151. | |
| 5.0 | 94. | 98. | 103. | 116. | 123. | 122. | 110. | 106. | 109. | 120. | 122. | |
| 0.0 | 72. | 72. | 72. | 72. | 72. | 72. | 72. | 72. | 72. | 72. | 72. | |
| | | | | | | | | | | | | |
| | PLANE OF MAXIMUM CANDELA | | | | | | | | | | | |
| | CONE OF MAXIMUM CANDELA | | | | | | | | | | | |



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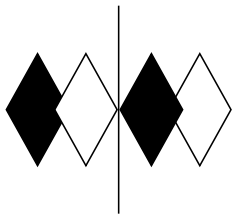
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5-DEGREE
ZONAL LUMEN SUMMARY

| | |
|---------|-----|
| 0- 5 | 2 |
| 5- 10 | 9 |
| 10- 15 | 20 |
| 15- 20 | 41 |
| 20- 25 | 75 |
| 25- 30 | 122 |
| 30- 35 | 183 |
| 35- 40 | 270 |
| 40- 45 | 376 |
| 45- 50 | 497 |
| 50- 55 | 606 |
| 55- 60 | 704 |
| 60- 65 | 786 |
| 65- 70 | 829 |
| 70- 75 | 711 |
| 75- 80 | 482 |
| 80- 85 | 137 |
| 85- 90 | 12 |
| 90- 95 | 3 |
| 95-100 | 3 |
| 100-105 | 3 |
| 105-110 | 2 |
| 110-115 | 1 |
| 115-120 | 0 |
| 120-125 | 0 |
| 125-130 | 0 |
| 130-135 | 0 |
| 135-140 | 0 |
| 140-145 | 0 |
| 145-150 | 0 |
| 150-155 | 0 |
| 155-160 | 0 |
| 160-165 | 0 |
| 165-170 | 0 |
| 170-175 | 0 |
| 175-180 | 0 |

10-DEGREE
ZONAL LUMEN SUMMARY

| | |
|-------|------|
| 0- 10 | 11 |
| 0- 20 | 72 |
| 0- 30 | 269 |
| 0- 40 | 722 |
| 0- 50 | 1595 |
| 0- 60 | 2905 |
| 0- 70 | 4520 |
| 0- 80 | 5712 |
| 0- 90 | 5862 |
| 0-100 | 5868 |
| 0-110 | 5872 |
| 0-120 | 5874 |
| 0-130 | 5874 |
| 0-140 | 5874 |
| 0-150 | 5874 |
| 0-160 | 5874 |
| 0-170 | 5874 |
| 0-180 | 5874 |



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ADDRESS: 170 LUDLOW AVE
NORTHVALE, NJ 07647

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REPORT NUMBER: ITL80204
DATE: 12/24/13
PREPARED FOR: RAB LIGHTING, INC.
CATALOG NUMBER: ALED5T78N (TYPE V)

ADDRESS: 170 LUDLOW AVE
NORTHVALE, NJ 07647

LUMINAIRE: CAST BROWN PAINTED METAL POST TOP FITTER WITH 3 FABRICATED BROWN PAINTED METAL VERTICAL POSTS, CAST 2-PIECE BROWN PAINTED FINNED METAL HOUSING, 6 CAST METAL HEAT SINKS/CIRCUIT BOARD MOUNTING BRACKETS, 6 CIRCUIT BOARDS EACH WITH 1 LED AND MOLDED PLASTIC CIRCUIT BOARD PERIMETER OVERLAY WITH SPECULAR FINISH, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH AND 1 APERTURE PER LED, CLEAR FLAT GLASS LENS IN CAST BROWN PAINTED METAL FRAME.

LAMP: SIX WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDs), AIMED 5-DEGREES BELOW THE HORIZON.

DRIVERS: THREE RAB RDF25U7-02

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120.0 AND 277.0 VAC, 60Hz) TO THE LED DRIVERS. DRIVER INFORMATION PROVIDED BY CLIENT

| | | |
|--------------|--|----------------------|
| INSTRUMENTS: | Associated Power Technologies APT5040 AC Power Source | Calibration Due: N/A |
| | Yokogawa WT210 Digital Power Meter #9 | 02/28/14 |
| | Ocean Optics QE65000 Spectroradiometer | 10/16/14 |
| | ITL 2.0m Diameter Integrating Sphere S20-2, 4PI Geometry | 10/16/14 |

OBJECT OF TEST: Measure the Total Radiant Flux*, Spectral Power Distribution (SPD), Correlated Color Temperature (CCT), Color Rendering Indices (CRI_a,1-14), Chromaticity Coordinates (x,y; u'v'), ANSI C78.377 Duv, and electrical data including ANSI C82.77-2002 Power Factor (PF) and Total Harmonic Distortion (THD) to the test sample. Report Off-State Power. Measure electrical data including Total Harmonic Distortion (THD) at maximum rated voltage.

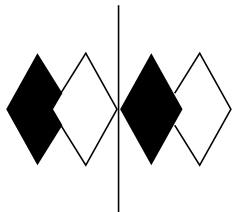
PROCEDURE: The test sample was provided by the customer and had an unknown number of operating hours. The test sample was mounted inside the integrating sphere and allowed to stabilize. After stabilization occurred, measurements were taken. In order to measure mean performance, multiple data sets were recorded and averaged. Readings were taken with the test sample operating at 120.0 VAC input. Electrical data was also recorded at maximum nominal rated input voltage (277.0 VAC). All testing performed in a 25 +/-1 degree Celsius free air ambient and in accordance with IESNA LM-79-08. All data are traceable to the National Institute of Standards and Technology. Off-State Power was reported with no voltage applied to the sample.

*NOTE: Proper calibration of integrating spheres for measuring total flux output of non-directional samples will produce reliable, repeatable results within the calibration tolerances of the equipment used. However, measurement of test samples with significant self absorption and/or directional output, even when these effects are compensated for, are likely to have a greater variation in results compared to the flux output calculated from a goniophotometric exploration since these artifacts do not affect the goniophotometric results.

RESULTS: (continued subsequent pages)

THIS ITL REPORT WITH THE USE OF THE NVLAP LOGO SHALL NOT BE USED BY THE CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST, OR ANY AGENCY OF THE FEDERAL GOVERNMENT.

| | |
|----------|-----------------------|
| Checked | <i>N THOMAS</i> |
| Approved | <i>P O'CONNOR</i> |
| | SPHERE LAB SUPERVISOR |



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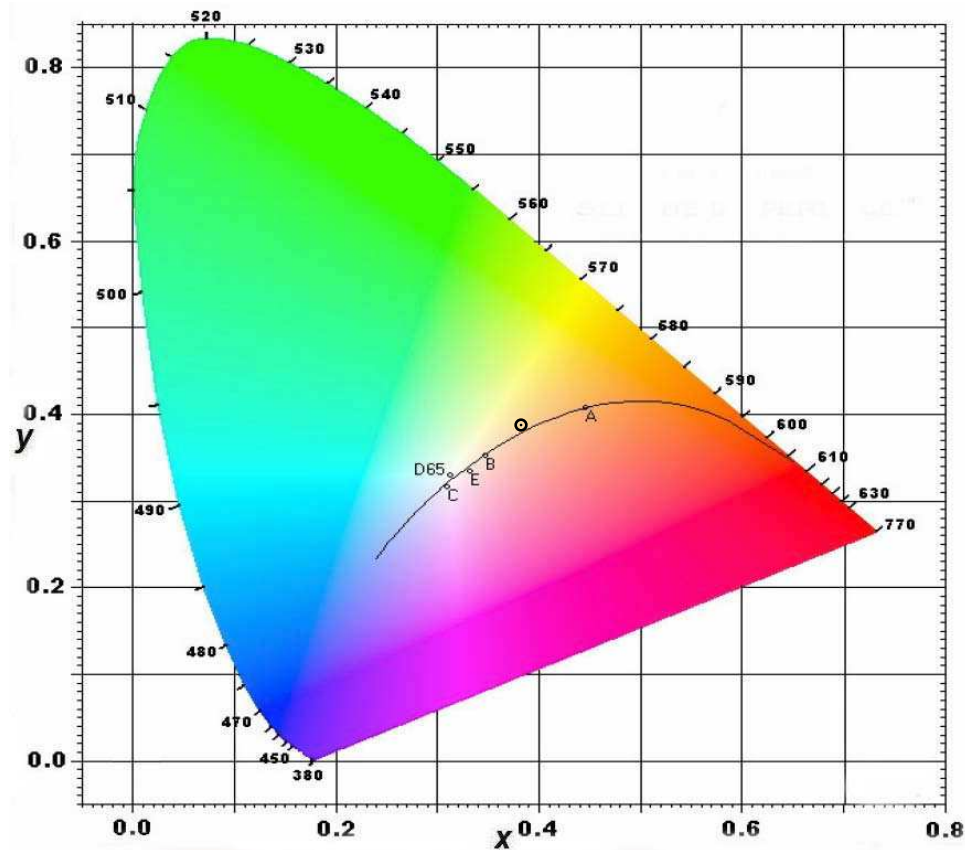
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NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

PHONE: (303)442-1255 • FAX: (970)535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com
REPORT NUMBER: ITL80204
DATE: 12/24/13
PREPARED FOR: RAB LIGHTING, INC.
CATALOG NUMBER: ALED5T78N (TYPE V)

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CIE Chromaticity Diagram



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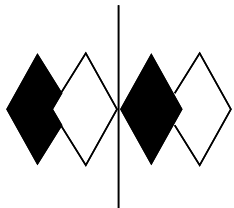
RESULTS:

| SPECTRORADIOMETRIC | |
|---------------------------------|-------------------|
| Observer | CIE 1931 2 degree |
| Chromaticity Ordinate x | 0.3822 |
| Chromaticity Ordinate y | 0.3872 |
| Observer | CIE 1976 2 degree |
| Chromaticity Ordinate u' | 0.2221 |
| Chromaticity Ordinate v' | 0.5064 |
| Correlated Color Temp CCT (K) | 4028 |
| ANSI C78.377-2008 Duv | 0.004 |
| Total Radiant Flux (milliWatts) | 17467 * |
| ELECTRICAL | |
| Input Voltage (Volts AC) | 120.0 |
| Input Current (Amps AC) | 0.749 |
| Input Power (Watts) | 89.5 |
| Input Power Factor (%) | 99.6 |
| Input Current THD (%) | 7.8 |
| Input Voltage THD (%) | 0.1 |
| Off-State Power (Watts) | |
| | 0.0 |
| ELECTRICAL AT MAX NONIMAL INPUT | |
| Input Voltage (Volts AC) | 277.0 |
| Input Current (Amps AC) | 0.354 |
| Input Power (Watts) | 89.0 |
| Input Power Factor (%) | 90.8 |
| Input Current THD (%) | 11.5 |
| Input Voltage THD (%) | 0.1 |

| COLOR RENDERING INDICES | CRI |
|---------------------------------|-----|
| Ra (Average 1-8) | 82 |
| R1 Light greyish red | 80 |
| R2 Dark greyish yellow | 85 |
| R3 Strong yellowish green | 91 |
| R4 Moderate yellowish green | 84 |
| R5 Light bluish green | 80 |
| R6 Light blue | 81 |
| R7 Light violet | 87 |
| R8 Light reddish purple | 65 |
| R9 Strong red | 4 |
| R10 Strong yellow | 66 |
| R11 Strong green | 84 |
| R12 Strong blue | 60 |
| R13 Light yellowish pink (skin) | 81 |
| R14 Moderate olive green (leaf) | 95 |

*NOTE:

Proper calibration of integrating spheres for measuring total flux output of non-directional samples will produce reliable, repeatable results within the calibration tolerances of the equipment used. However, measurement of test samples with significant self absorption and/or directional output, even when these effects are compensated for, are likely to have a greater variation in results compared to the flux output calculated from a goniophotometric exploration since these artifacts do not affect the goniophotometric results.



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RESULTS:

| Wavelength | mW per nm | Wavelength | mW per nm | Wavelength | mW per nm |
|------------|-----------|------------|-----------|------------|-----------|
| 380 | 0.401 | 515 | 70.577 | 650 | 50.445 |
| 385 | 0.410 | 520 | 75.179 | 655 | 44.851 |
| 390 | 0.449 | 525 | 78.274 | 660 | 39.597 |
| 395 | 0.554 | 530 | 80.110 | 665 | 34.773 |
| 400 | 0.755 | 535 | 80.902 | 670 | 30.340 |
| 405 | 1.165 | 540 | 81.418 | 675 | 26.372 |
| 410 | 2.000 | 545 | 81.781 | 680 | 22.865 |
| 415 | 3.750 | 550 | 82.400 | 685 | 19.740 |
| 420 | 7.363 | 555 | 83.324 | 690 | 16.983 |
| 425 | 14.313 | 560 | 84.876 | 695 | 14.593 |
| 430 | 26.109 | 565 | 87.069 | 700 | 12.504 |
| 435 | 44.249 | 570 | 89.523 | 705 | 10.706 |
| 440 | 71.922 | 575 | 92.310 | 710 | 9.149 |
| 445 | 99.747 | 580 | 95.020 | 715 | 7.826 |
| 450 | 96.354 | 585 | 97.396 | 720 | 6.679 |
| 455 | 67.210 | 590 | 98.981 | 725 | 5.690 |
| 460 | 46.047 | 595 | 99.679 | 730 | 4.848 |
| 465 | 33.628 | 600 | 99.325 | 735 | 4.134 |
| 470 | 24.627 | 605 | 97.779 | 740 | 3.528 |
| 475 | 20.362 | 610 | 95.101 | 745 | 3.020 |
| 480 | 20.377 | 615 | 91.170 | 750 | 2.591 |
| 485 | 23.398 | 620 | 86.444 | 755 | 2.222 |
| 490 | 29.230 | 625 | 80.963 | 760 | 1.904 |
| 495 | 37.513 | 630 | 75.007 | 765 | 1.633 |
| 500 | 46.963 | 635 | 68.857 | 770 | 1.410 |
| 505 | 56.077 | 640 | 62.658 | 775 | 1.209 |
| 510 | 64.166 | 645 | 56.436 | 780 | 1.053 |

