

REPORT NUMBER: PRORATED FROM RAB04324

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ISSUE DATE: 05/08/18

PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

CATALOG NUMBER: ALED3T78N - RWLED3T78N - RWLED3T78SFN - WPLED3T78N (TYPE III)

LUMINAIRE: CAST FINNED METAL HOUSING, 6 CIRCUIT BOARDS EACH WITH 1 LED,
MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH AND 1 APERTURE PER LED,
CLEAR FLAT GLASS LENS IN CAST BROWN PAINTED METAL LENS FRAME.

LAMPS: SIX WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDs), 2 LEDs TILTED
63-DEGREES FROM VERTICAL BASE-UP POSITION AND CANTED 75-DEGREES FROM
STRAIGHT AHEAD, 2 LEDs TILTED 67-DEGREES FROM VERTICAL BASE-UP POSITION
AND CANTED 68-DEGREES FROM STRAIGHT AHEAD, 2 LEDs TILTED 58-DEGREES FROM
VERTICAL BASE-UP POSITION AND CANTED 40-DEGREES FROM STRAIGHT AHEAD.

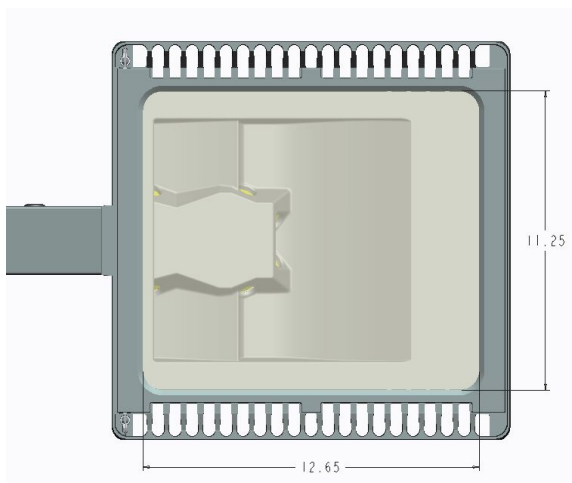
ABSOLUTE: NOTE: THIS REPORT WAS PRORATED FROM RAB04324 WHICH WAS ALED3T78Y.
ACTUAL PERFORMANCE MAY VARY.

WATT: TOTAL INPUT WATTS = 78.2W AT 120.0 VAC.

LED DRIVER: LED DRIVER: RDD-U85-A2100

PROCEDURE: TEST PROCEDURE: IESNA LM-79-08

NOTE: LM-80 DATA AVAILABLE FROM MANUFACTURER FOR SOLID STATE SOURCE



Checked X.CAO

Approved D.WANG-MUNSON

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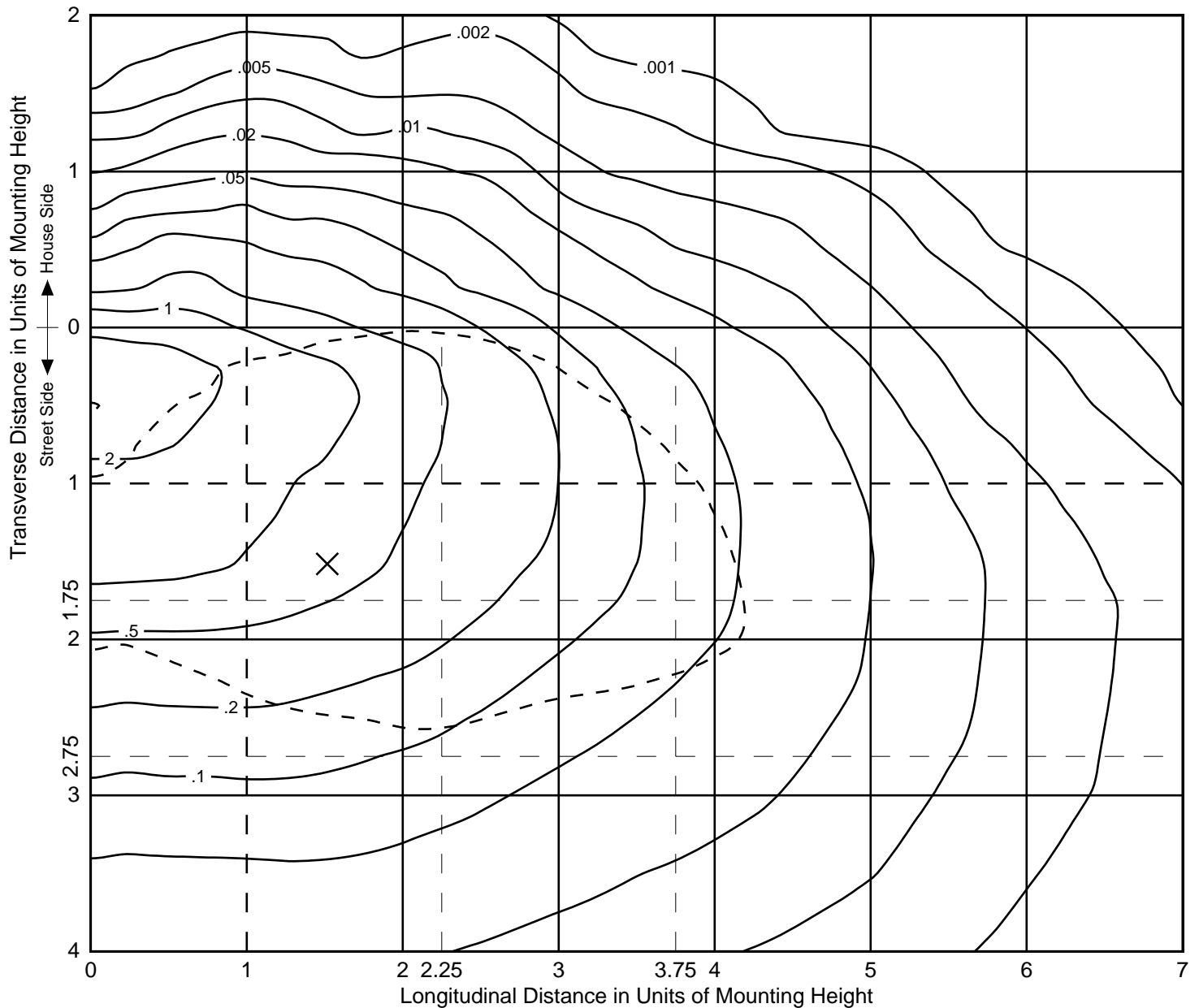
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION
Values based on 25-foot mounting height

IES Classification: Short, Type III

Cutoff Classification (deprecated): Noncutoff

— — — — — 1/2 Maximum Candela trace

× Maximum Candela point



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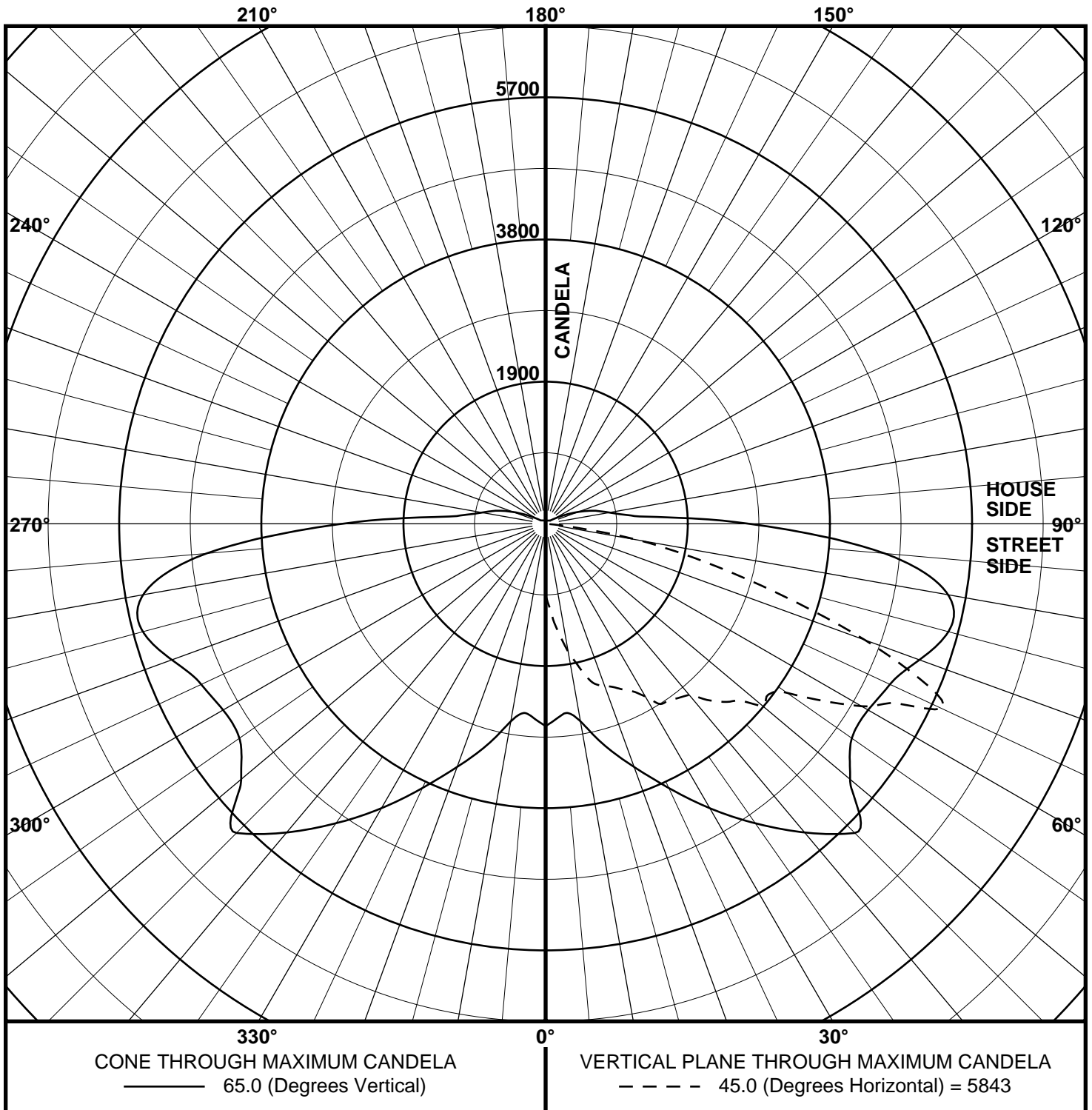
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MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA



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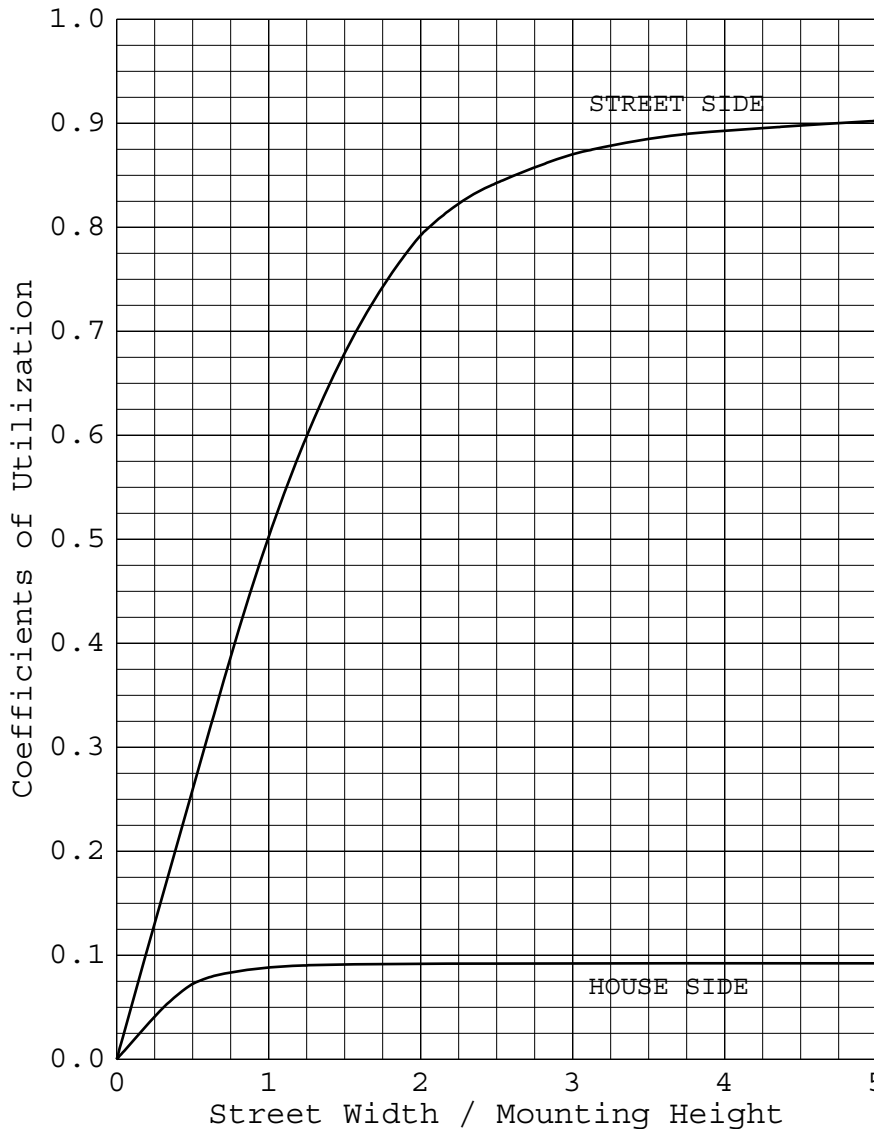
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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



| | LUMENS | PERCENT OF FIXTURE |
|-------------------------|--------|-----------------------|
| DOWNWARD STREET SIDE | 8337 | 90.7 |
| DOWNWARD HOUSE SIDE | 854 | 9.3 |
| DOWNWARD TOTAL | 9191 | 100.0 |
| UPWARD STREET SIDE | 0 | 0.0 |
| UPWARD HOUSE SIDE | 0 | 0.0 |
| UPWARD TOTAL | 0 | 0.0 |
| TOTAL FLUX | 9191 | 100.0 |

EFFICACY = 117.5 lm/W

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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| BUG Rating | | | B1 U0 G2 | | |
|---------------|---------------|--------|--------------|----|----|
| Zonal Summary | | | Zone Ratings | | |
| | | | B | U | G |
| Forward | | | | | |
| FL | (0° – 30°) | 8337 | | | |
| FM | (30° – 60°) | 887.8 | | | |
| FH | (60° – 80°) | 3875.7 | | | |
| FVH | (80° – 90°) | 3432.2 | | | G2 |
| | | 141.0 | | | G2 |
| Backward | | | | | |
| BL | (0° – 30°) | 854 | | | |
| BM | (30° – 60°) | 204.1 | B1 | | |
| BH | (60° – 80°) | 440.8 | B1 | | |
| BVH | (80° – 90°) | 204.0 | B1 | | G1 |
| | | 5.0 | | | G0 |
| Upward | | | | | |
| UL | (90° – 100°) | 0 | | | |
| UH | (100° – 180°) | 0.0 | | U0 | |
| | | 0.0 | | U0 | |
| Trapped Light | | | | | |
| Total Flux | | | | | |
| | | 0 | | | |
| | | 9191 | | | |
| | | 100.0 | | | |

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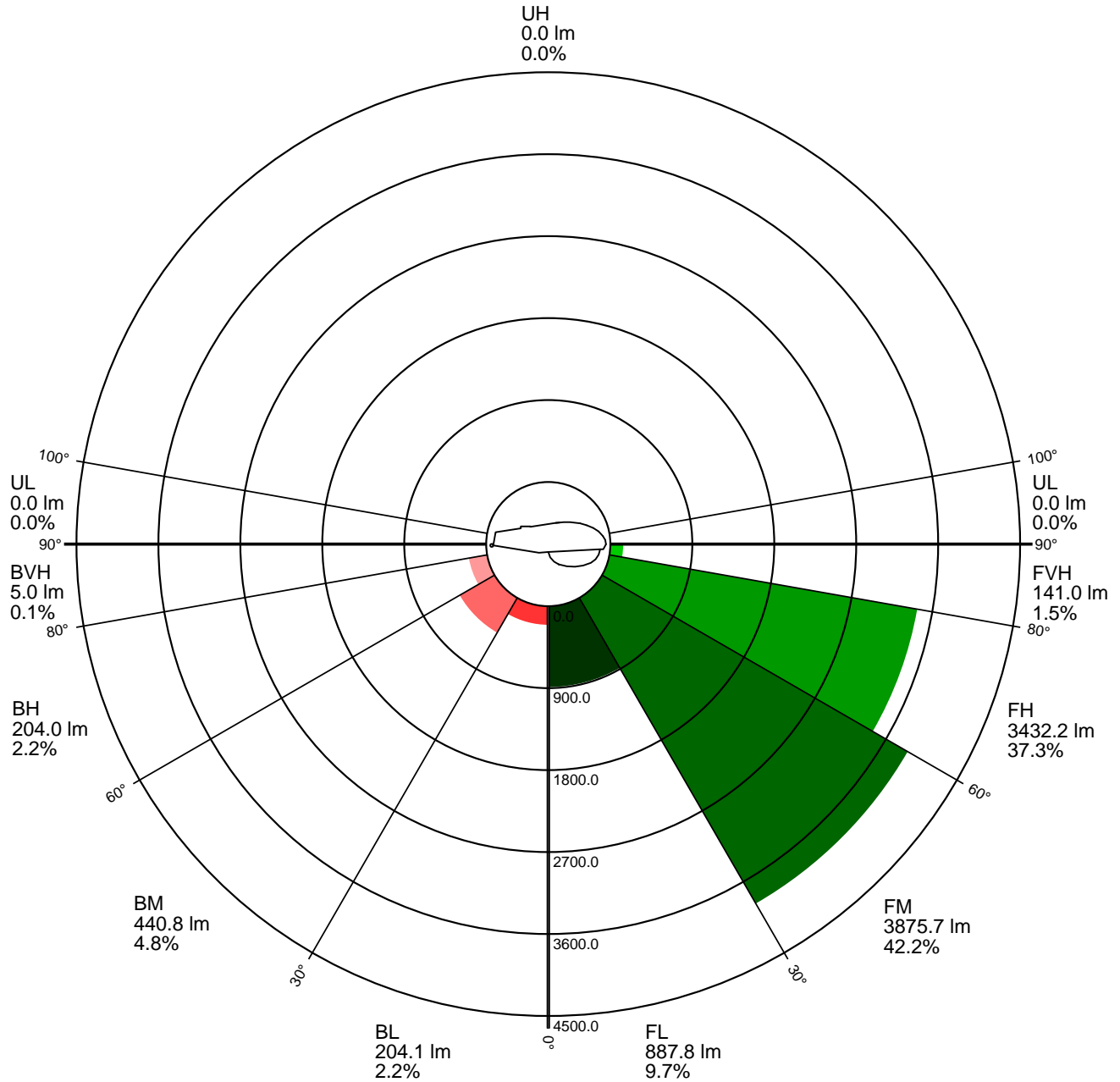
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Zonal Lumen Summary

(Linear scale)



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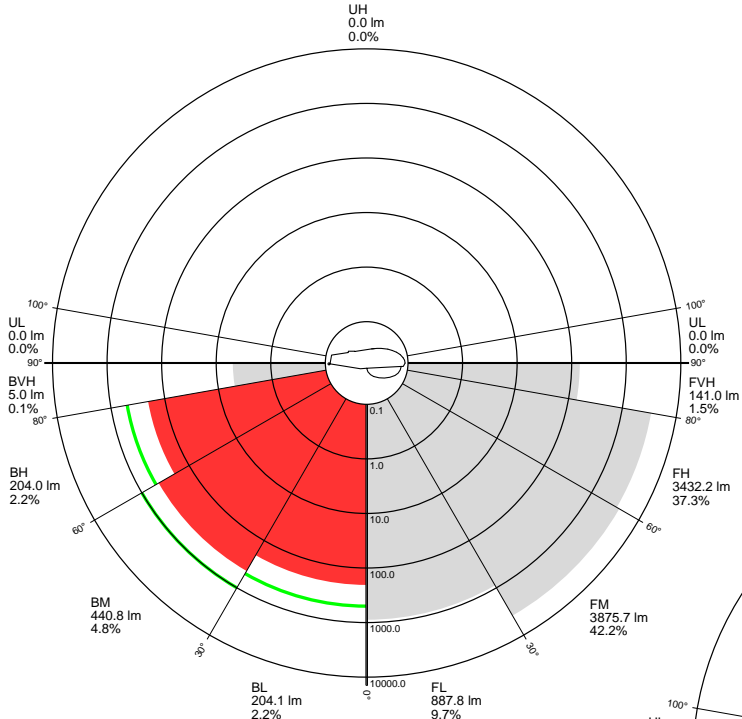
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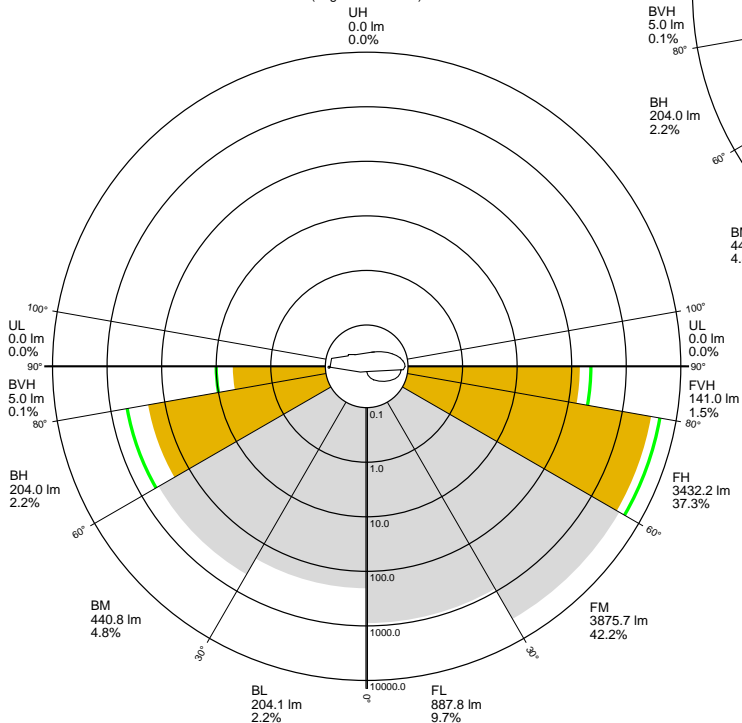
Backlight Rating Details

(Logarithmic scale)



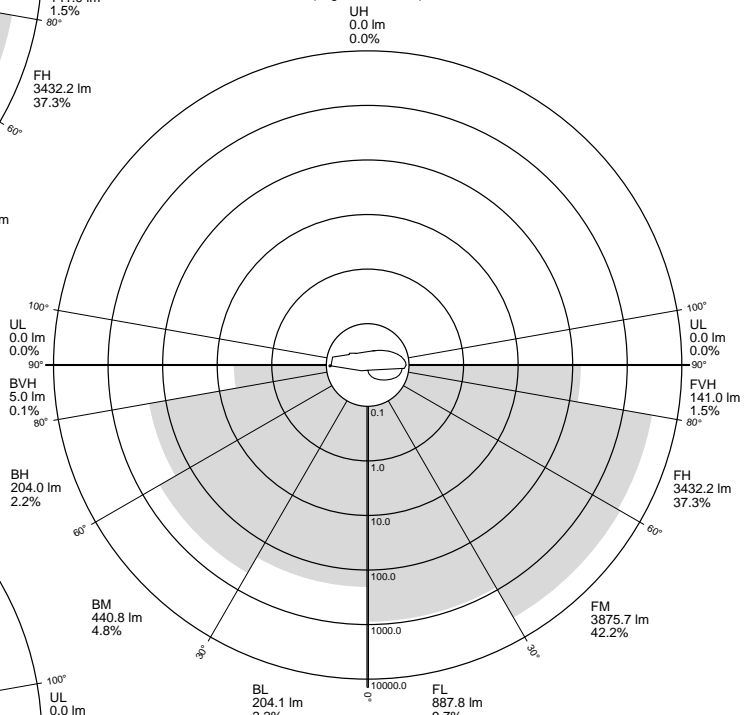
Glare Rating Details

(Logarithmic scale)



Uplight Rating Details

(Logarithmic scale)



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CANDELA TABULATION

| | STREET | SIDE | | | | | | | | | | |
|---|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 0.0 | 5.0 | 15.0 | 25.0 | 35.0 | 45.0 | 50.0 | 55.0 | 65.0 | 75.0 | 85.0 |
| | | | | | | | | | | | | |
| | 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 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| | 105.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| | 95.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| | 92.5 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| | 90.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| | 87.5 | 2. | 2. | 4. | 4. | 8. | 10. | 9. | 12. | 13. | 14. | 8. |
| | 85.0 | 16. | 14. | 35. | 52. | 88. | 120. | 150. | 156. | 168. | 160. | 22. |
| V | 82.5 | 51. | 76. | 197. | 234. | 360. | 483. | 635. | 811. | 939. | 773. | 138. |
| E | 80.0 | 173. | 226. | 400. | 590. | 842. | 1264. | 1526. | 1790. | 1848. | 1490. | 563. |
| R | 77.5 | 617. | 635. | 858. | 1275. | 1533. | 1917. | 2247. | 2539. | 3093. | 2507. | 1433. |
| T | 75.0 | 1167. | 1138. | 1364. | 1839. | 2265. | 2660. | 2912. | 3237. | 4081. | 3329. | 2136. |
| I | 72.5 | 1548. | 1502. | 1745. | 2282. | 2791. | 3552. | 3926. | 4267. | 4990. | 4279. | 2657. |
| C | 70.0 | 1867. | 1802. | 2115. | 2747. | 3367. | 4544. | 5103. | 5487. | 5266. | 5182. | 3458. |
| A | 67.5 | 2257. | 2132. | 2544. | 3286. | 4143. | 5414. | 5786. | 5527. | 5247. | 5311. | 4399. |
| L | 65.0<< | 2703. | 2560. | 3072. | 3896. | 4886. | 5843. | 5311. | 4997. | 5078. | 5574. | 4549. |
| | 62.5 | 3282. | 3176. | 3766. | 4560. | 5478. | 5189. | 5056. | 5016. | 4807. | 5558. | 4403. |
| A | 60.0 | 4164. | 4069. | 4551. | 5280. | 5191. | 4878. | 4749. | 4607. | 4889. | 5277. | 4121. |
| N | 57.5 | 4829. | 4792. | 4947. | 5058. | 4503. | 4405. | 4235. | 4326. | 5446. | 4814. | 3792. |
| G | 55.0 | 4535. | 4550. | 4354. | 4134. | 4043. | 3936. | 4020. | 4099. | 4791. | 4303. | 3440. |
| L | 52.5 | 3745. | 3776. | 3718. | 3740. | 3552. | 3752. | 3778. | 4042. | 4162. | 3833. | 2913. |
| E | 50.0 | 3385. | 3411. | 3400. | 3303. | 3247. | 3777. | 3726. | 3898. | 3894. | 3556. | 2473. |
| | 47.5 | 3157. | 3184. | 3133. | 3088. | 3218. | 3494. | 3530. | 3529. | 3537. | 3367. | 2328. |
| | 45.0 | 2971. | 3013. | 2933. | 2966. | 3197. | 3367. | 3401. | 3286. | 3227. | 3199. | 2174. |
| | 42.5 | 2856. | 2872. | 2908. | 3047. | 3157. | 3192. | 3169. | 3139. | 3047. | 2962. | 2002. |
| | 40.0 | 2869. | 2859. | 2873. | 2920. | 3055. | 2986. | 3047. | 2911. | 2856. | 2819. | 1856. |
| | 37.5 | 2640. | 2643. | 2725. | 3134. | 2888. | 2931. | 2834. | 2707. | 2685. | 2592. | 1765. |
| | 35.0 | 2767. | 2779. | 2913. | 2856. | 2907. | 2879. | 2775. | 2658. | 2644. | 2384. | 1678. |
| | 32.5 | 2790. | 2779. | 2702. | 2781. | 2883. | 2856. | 2728. | 2639. | 2634. | 2356. | 1621. |
| | 30.0 | 2818. | 2798. | 2776. | 2795. | 2760. | 2667. | 2630. | 2561. | 2556. | 2291. | 1574. |
| | 25.0 | 2948. | 2925. | 2696. | 2589. | 2502. | 2442. | 2418. | 2400. | 2330. | 1880. | 1365. |
| | 20.0 | 2667. | 2686. | 2554. | 2436. | 2337. | 2310. | 2301. | 2245. | 1999. | 1614. | 1197. |
| | 15.0 | 2398. | 2396. | 2391. | 2291. | 2208. | 2117. | 2050. | 1950. | 1662. | 1334. | 1054. |
| | 10.0 | 2149. | 2139. | 2134. | 2046. | 1888. | 1735. | 1625. | 1537. | 1369. | 1155. | 983. |
| | 5.0 | 1530. | 1543. | 1490. | 1472. | 1399. | 1329. | 1271. | 1223. | 1126. | 1032. | 957. |
| | 0.0 | 956. | 956. | 956. | 956. | 956. | 956. | 956. | 956. | 956. | 956. | 956. |

||
PLANE OF MAXIMUM CANDELA

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 | | 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 | | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| | 105.0 | | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| | 95.0 | | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| | 92.5 | | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| | 90.0 | | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| | 87.5 | | 7. | 7. | 7. | 7. | 6. | 6. | 5. | 3. | 3. | 3. |
| | 85.0 | | 11. | 9. | 8. | 8. | 6. | 6. | 5. | 3. | 3. | 3. |
| V | 82.5 | | 72. | 29. | 16. | 11. | 7. | 5. | 4. | 3. | 3. | 3. |
| E | 80.0 | | 334. | 145. | 26. | 25. | 7. | 5. | 4. | 3. | 4. | 4. |
| R | 77.5 | | 818. | 455. | 71. | 37. | 10. | 5. | 5. | 4. | 5. | 5. |
| T | 75.0 | | 1093. | 470. | 139. | 39. | 19. | 8. | 5. | 4. | 5. | 5. |
| I | 72.5 | | 1551. | 694. | 186. | 89. | 52. | 11. | 8. | 5. | 5. | 5. |
| C | 70.0 | | 2133. | 995. | 458. | 148. | 59. | 13. | 17. | 7. | 7. | 7. |
| A | 67.5 | | 2487. | 1124. | 662. | 217. | 64. | 22. | 13. | 7. | 8. | 8. |
| L | 65.0<< | | 2725. | 1193. | 671. | 273. | 75. | 47. | 22. | 9. | 8. | 9. |
| | 62.5 | | 2719. | 1284. | 695. | 345. | 96. | 66. | 44. | 16. | 10. | 8. |
| A | 60.0 | | 2431. | 1300. | 808. | 430. | 126. | 94. | 54. | 23. | 11. | 7. |
| N | 57.5 | | 2300. | 1267. | 777. | 429. | 157. | 112. | 64. | 30. | 14. | 8. |
| G | 55.0 | | 2158. | 1295. | 721. | 421. | 187. | 122. | 73. | 39. | 17. | 8. |
| L | 52.5 | | 1964. | 1280. | 648. | 455. | 267. | 136. | 78. | 46. | 22. | 12. |
| E | 50.0 | | 1769. | 1254. | 614. | 545. | 368. | 170. | 88. | 51. | 29. | 36. |
| | 47.5 | | 1684. | 1204. | 632. | 458. | 364. | 187. | 103. | 57. | 35. | 37. |
| | 45.0 | | 1656. | 1143. | 644. | 477. | 329. | 202. | 120. | 66. | 46. | 38. |
| | 42.5 | | 1610. | 1247. | 638. | 473. | 358. | 216. | 131. | 108. | 57. | 34. |
| | 40.0 | | 1513. | 1296. | 738. | 472. | 380. | 231. | 145. | 100. | 80. | 53. |
| | 37.5 | | 1445. | 1272. | 1089. | 503. | 376. | 248. | 160. | 112. | 95. | 73. |
| | 35.0 | | 1406. | 1223. | 1068. | 776. | 436. | 325. | 179. | 121. | 100. | 76. |
| | 32.5 | | 1382. | 1186. | 934. | 728. | 538. | 370. | 219. | 129. | 98. | 74. |
| | 30.0 | | 1295. | 1138. | 850. | 622. | 455. | 335. | 300. | 158. | 103. | 83. |
| | 25.0 | | 1145. | 1029. | 762. | 597. | 415. | 305. | 234. | 181. | 136. | 124. |
| | 20.0 | | 1041. | 947. | 754. | 614. | 469. | 335. | 247. | 191. | 180. | 191. |
| | 15.0 | | 945. | 867. | 750. | 624. | 546. | 495. | 401. | 330. | 295. | 258. |
| | 10.0 | | 906. | 843. | 745. | 681. | 611. | 559. | 519. | 489. | 444. | 415. |
| | 5.0 | | 920. | 890. | 827. | 772. | 734. | 703. | 681. | 650. | 623. | 619. |
| | 0.0 | | 956. | 956. | 956. | 956. | 956. | 956. | 956. | 956. | 956. | 956. |

CONE OF MAXIMUM CANDELA

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5-DEGREE
ZONAL LUMEN SUMMARY

| | |
|---------|------|
| 0- 5 | 23 |
| 5- 10 | 76 |
| 10- 15 | 141 |
| 15- 20 | 207 |
| 20- 25 | 281 |
| 25- 30 | 364 |
| 30- 35 | 449 |
| 35- 40 | 522 |
| 40- 45 | 608 |
| 45- 50 | 721 |
| 50- 55 | 889 |
| 55- 60 | 1128 |
| 60- 65 | 1196 |
| 65- 70 | 1116 |
| 70- 75 | 845 |
| 75- 80 | 479 |
| 80- 85 | 137 |
| 85- 90 | 8 |
| 90- 95 | 0 |
| 95-100 | 0 |
| 100-105 | 0 |
| 105-110 | 0 |
| 110-115 | 0 |
| 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 | 100 |
| 0- 20 | 447 |
| 0- 30 | 1092 |
| 0- 40 | 2063 |
| 0- 50 | 3392 |
| 0- 60 | 5408 |
| 0- 70 | 7721 |
| 0- 80 | 9045 |
| 0- 90 | 9191 |
| 0-100 | 9191 |
| 0-110 | 9191 |
| 0-120 | 9191 |
| 0-130 | 9191 |
| 0-140 | 9191 |
| 0-150 | 9191 |
| 0-160 | 9191 |
| 0-170 | 9191 |
| 0-180 | 9191 |