

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P955532

Luminaire Tested: **GALN-SB8B-950-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8B-950-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26819 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

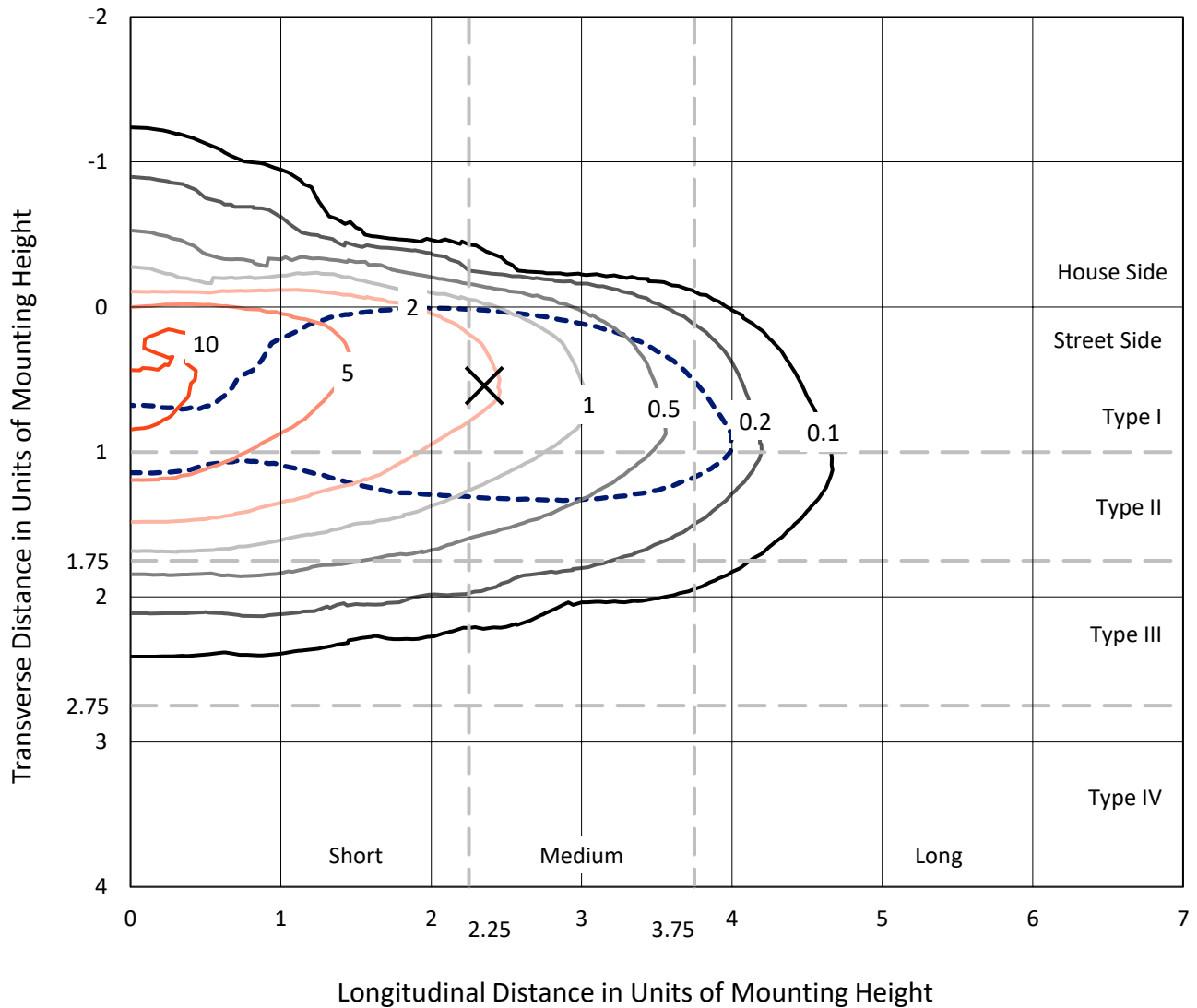
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

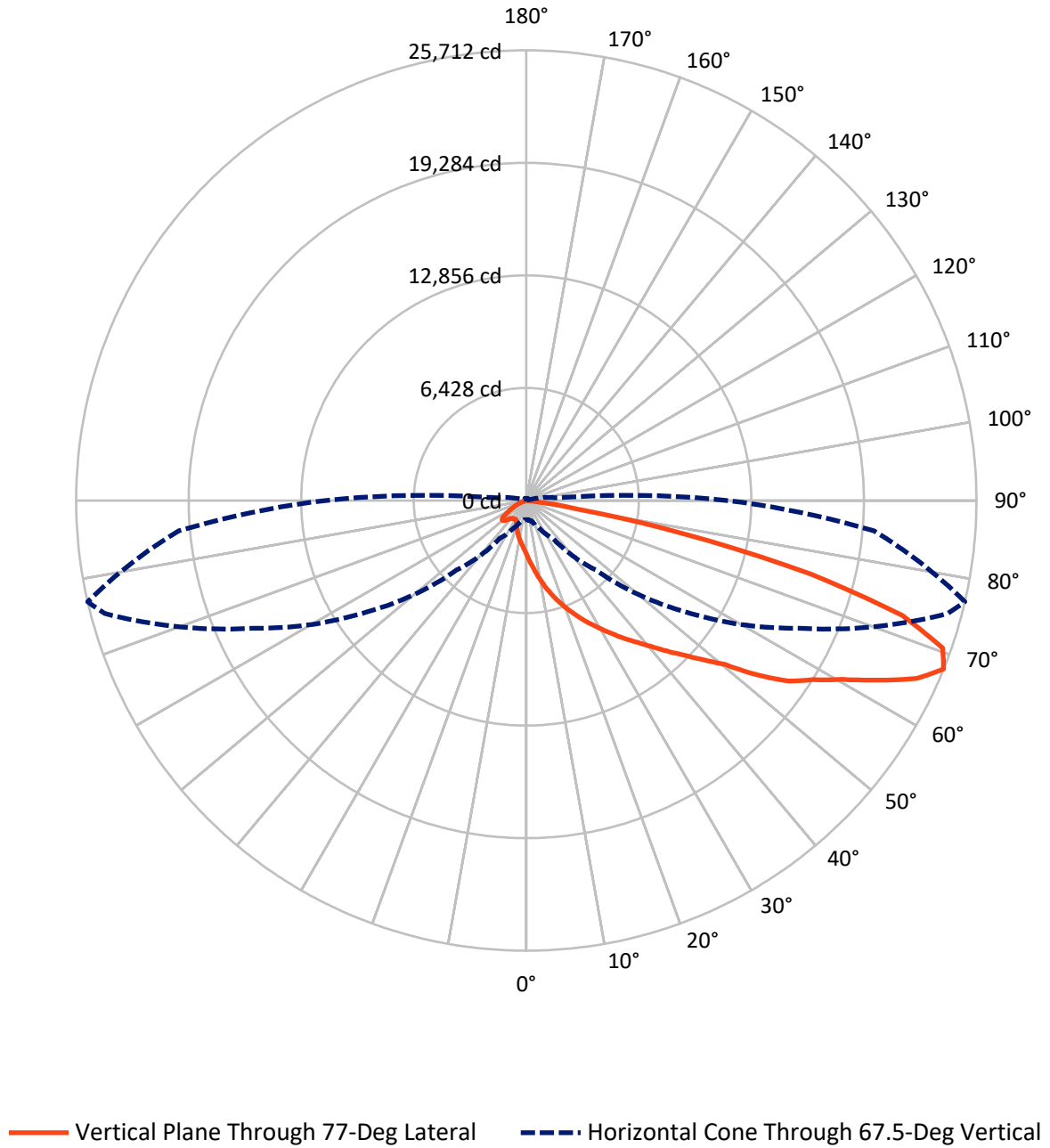
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1973.1 | 0.0 | 1973.1 |
| | % Fixture | 7.4 | 0.0 | 7.4 |
| Street Side | Lumens | 24845.9 | 0.0 | 24845.9 |
| | % Fixture | 92.6 | 0.0 | 92.6 |
| Total | Lumens | 26819.0 | 0.0 | 26819.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 315.6 | 1.2 |
| 10°-20° | 1105.4 | 4.1 |
| 20°-30° | 2133.1 | 8.0 |
| 30°-40° | 3703.1 | 13.8 |
| 40°-50° | 5376.8 | 20.0 |
| 50°-60° | 6174.5 | 23.0 |
| 60°-70° | 5360.7 | 20.0 |
| 70°-80° | 2524.9 | 9.4 |
| 80°-90° | 124.9 | 0.5 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 26819.0 | 100.0 |
| 0°-180° | 26819.0 | 100.0 |

Coefficient of Utilization



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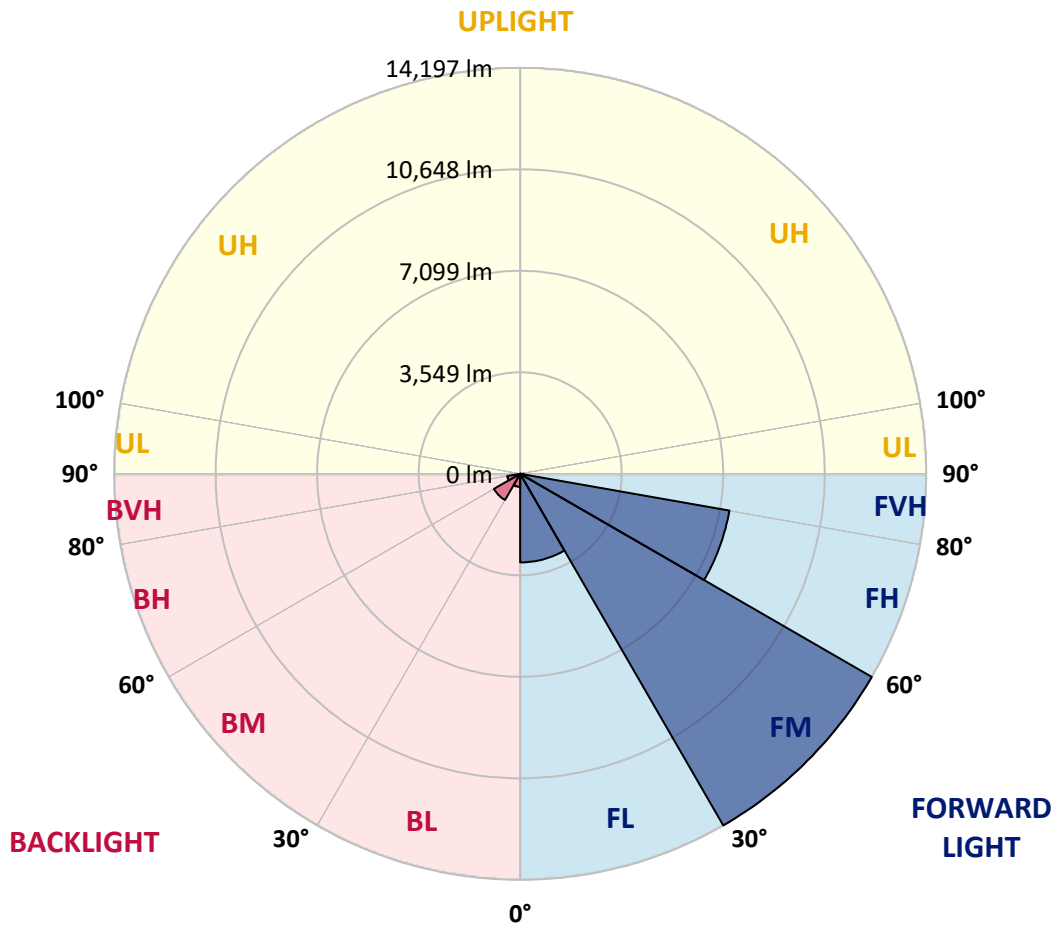
CATALOG NUMBER: GALN-SB8B-950-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3097.3 | 11.5 | | | |
| FM (30°-60°) | 14197.3 | 52.9 | | | |
| FH (60°-80°) | 7428.8 | 27.7 | | | G3/7500 |
| FVH (80°-90°) | 122.6 | 0.5 | | | G2/225 |
| BL (0°-30°) | 456.8 | 1.7 | B1/500 | | |
| BM (30°-60°) | 1057.2 | 3.9 | B2/2500 | | |
| BH (60°-80°) | 456.8 | 1.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3092.6 | 3092.6 | 3092.6 | 3092.6 | 3092.6 | 3092.6 | 3092.6 | 3092.6 | 3092.6 | 3092.6 |
| 2.5° | 4281.7 | 4308.4 | 4270.1 | 4196.8 | 4086.9 | 4015.2 | 3840.4 | 3675.5 | 3492.3 | 3434.0 |
| 5° | 5219.3 | 5242.6 | 5199.3 | 5119.4 | 4972.8 | 4833.0 | 4603.1 | 4258.4 | 3900.3 | 3785.4 |
| 7.5° | 5913.8 | 5927.1 | 5910.5 | 5837.2 | 5697.3 | 5539.1 | 5282.6 | 4874.6 | 4343.3 | 4216.8 |
| 10° | 6413.4 | 6456.7 | 6451.7 | 6423.4 | 6330.1 | 6201.9 | 5928.8 | 5464.1 | 4839.6 | 4676.4 |
| 12.5° | 6744.8 | 6793.1 | 6821.4 | 6884.7 | 6879.7 | 6798.1 | 6558.3 | 6067.0 | 5334.2 | 5142.7 |
| 15° | 6841.4 | 6893.0 | 7001.3 | 7147.8 | 7277.7 | 7319.4 | 7151.2 | 6658.2 | 5878.8 | 5634.0 |
| 17.5° | 6786.5 | 6866.4 | 6996.3 | 7227.8 | 7512.6 | 7700.8 | 7682.4 | 7229.4 | 6373.4 | 6093.7 |
| 20° | 6908.0 | 6984.6 | 7086.2 | 7281.1 | 7612.5 | 7953.9 | 8090.5 | 7775.7 | 6864.7 | 6571.6 |
| 22.5° | 7580.8 | 7567.5 | 7577.5 | 7609.2 | 7807.3 | 8145.4 | 8426.9 | 8272.0 | 7351.0 | 7051.3 |
| 25° | 8646.7 | 8586.7 | 8485.2 | 8313.6 | 8263.7 | 8426.9 | 8720.0 | 8711.6 | 7864.0 | 7542.5 |
| 27.5° | 9869.1 | 9859.1 | 9620.9 | 9207.9 | 8974.8 | 8911.5 | 9051.4 | 9139.6 | 8371.9 | 8028.8 |
| 30° | 11039.9 | 11066.5 | 10745.1 | 10285.4 | 9857.4 | 9609.3 | 9482.7 | 9546.0 | 8888.2 | 8553.4 |
| 32.5° | 12059.1 | 12087.4 | 11737.7 | 11199.7 | 10670.1 | 10370.4 | 10103.9 | 9947.4 | 9451.1 | 9086.4 |
| 35° | 12920.1 | 12948.4 | 12547.0 | 11952.5 | 11387.9 | 11116.5 | 10815.0 | 10387.0 | 10017.3 | 9677.6 |
| 37.5° | 13689.5 | 13681.2 | 13143.2 | 12543.7 | 11989.1 | 11774.3 | 11616.1 | 10928.3 | 10600.2 | 10272.1 |
| 40° | 14144.1 | 14179.1 | 13719.5 | 13058.3 | 12520.4 | 12363.8 | 12353.8 | 11599.4 | 11273.0 | 10954.9 |
| 42.5° | 14277.4 | 14339.0 | 14005.9 | 13463.0 | 12975.0 | 12805.2 | 13066.6 | 12325.5 | 12055.7 | 11746.0 |
| 45° | 14037.6 | 14097.5 | 13946.0 | 13569.6 | 13284.8 | 13174.9 | 13679.5 | 13078.3 | 12891.8 | 12585.3 |
| 47.5° | 13338.1 | 13413.0 | 13449.7 | 13369.7 | 13366.4 | 13478.0 | 14229.1 | 13871.0 | 13884.3 | 13571.2 |
| 50° | 11984.1 | 12110.7 | 12447.1 | 12730.2 | 13168.2 | 13717.8 | 14763.7 | 14730.4 | 15003.5 | 14733.7 |
| 52.5° | 9522.7 | 9702.5 | 10861.7 | 11636.1 | 12620.3 | 13672.8 | 15351.5 | 16109.3 | 16967.0 | 16572.3 |
| 55° | 7652.5 | 7652.5 | 8595.1 | 10044.0 | 11551.1 | 13376.4 | 15608.0 | 17005.3 | 18304.3 | 18211.0 |
| 57.5° | 6238.5 | 6313.5 | 6914.7 | 8195.4 | 10004.0 | 12670.3 | 15766.2 | 17568.2 | 19381.8 | 19313.5 |
| 60° | 3850.4 | 4011.9 | 5147.7 | 6411.7 | 8243.7 | 11412.9 | 15666.3 | 18137.7 | 20689.1 | 20744.1 |
| 62.5° | 2168.3 | 2228.3 | 2734.6 | 4613.1 | 6410.1 | 9722.5 | 14901.9 | 18455.8 | 22361.2 | 22594.3 |
| 65° | 1497.2 | 1527.2 | 1722.0 | 2871.1 | 4443.3 | 7740.7 | 13408.0 | 18257.6 | 24036.5 | 24507.8 |
| 67.5° | 1087.5 | 1102.5 | 1224.1 | 1753.7 | 2636.3 | 5612.4 | 11066.5 | 17258.4 | 24924.2 | 25711.9 |
| 70° | 836.0 | 846.0 | 934.3 | 1152.4 | 1557.1 | 3464.0 | 8037.2 | 15271.6 | 24281.4 | 25222.3 |
| 72.5° | 679.5 | 689.5 | 757.8 | 852.7 | 1032.5 | 2048.4 | 4871.3 | 12402.1 | 21443.5 | 22459.4 |
| 75° | 572.9 | 586.2 | 647.8 | 709.5 | 809.4 | 1315.7 | 2284.9 | 8636.7 | 16125.9 | 16792.1 |
| 77.5° | 318.1 | 293.1 | 526.3 | 587.9 | 682.8 | 832.7 | 1069.2 | 5082.8 | 9031.4 | 9216.3 |
| 80° | 198.2 | 204.8 | 418.0 | 473.0 | 524.6 | 419.7 | 489.6 | 1956.8 | 3130.9 | 2974.4 |
| 82.5° | 11.7 | 26.6 | 321.4 | 341.4 | 359.7 | 179.9 | 184.9 | 664.5 | 754.4 | 692.8 |
| 85° | 0.0 | 0.0 | 146.6 | 118.2 | 124.9 | 51.6 | 53.3 | 154.9 | 101.6 | 109.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 3.3 | 0.0 | 5.0 | 10.0 | 13.3 | 5.0 | 6.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3092.6 | 0° | 3092.6 | 3092.6 | 3092.6 | 3092.6 | 3092.6 | 3092.6 | 3092.6 | 3092.6 | 3092.6 | 3092.6 |
| 3250.8 | 2.5° | 3134.3 | 3017.7 | 2781.2 | 2549.7 | 2361.5 | 2186.7 | 2061.7 | 1943.5 | 1883.6 | 1880.2 |
| 3460.7 | 5° | 3229.2 | 2984.4 | 2511.4 | 2093.4 | 1757.0 | 1487.2 | 1312.3 | 1187.4 | 1124.1 | 1102.5 |
| 3718.8 | 7.5° | 3362.4 | 2994.4 | 2274.9 | 1693.7 | 1297.3 | 1065.8 | 965.9 | 926.0 | 912.6 | 897.6 |
| 4010.3 | 10° | 3530.6 | 3017.7 | 2063.4 | 1364.0 | 1022.5 | 906.0 | 866.0 | 849.3 | 839.4 | 829.4 |
| 4338.3 | 12.5° | 3718.8 | 3039.3 | 1853.6 | 1132.5 | 899.3 | 839.4 | 811.0 | 791.1 | 777.7 | 766.1 |
| 4674.7 | 15° | 3902.0 | 3052.7 | 1635.4 | 970.9 | 836.0 | 787.7 | 757.8 | 736.1 | 717.8 | 704.5 |
| 5004.5 | 17.5° | 4083.5 | 3071.0 | 1430.6 | 874.3 | 784.4 | 736.1 | 706.1 | 679.5 | 664.5 | 649.5 |
| 5350.9 | 20° | 4285.0 | 3067.6 | 1237.4 | 806.0 | 732.8 | 684.5 | 652.8 | 627.9 | 612.9 | 596.2 |
| 5717.3 | 22.5° | 4471.6 | 3051.0 | 1067.5 | 747.8 | 679.5 | 632.8 | 597.9 | 572.9 | 557.9 | 544.6 |
| 6092.0 | 25° | 4686.4 | 3037.7 | 926.0 | 694.5 | 629.5 | 582.9 | 544.6 | 521.3 | 504.6 | 493.0 |
| 6468.4 | 27.5° | 4892.9 | 3017.7 | 822.7 | 646.2 | 581.2 | 536.3 | 499.6 | 473.0 | 458.0 | 449.7 |
| 6856.4 | 30° | 5096.1 | 3012.7 | 784.4 | 599.5 | 537.9 | 493.0 | 456.3 | 431.3 | 419.7 | 416.3 |
| 7282.7 | 32.5° | 5340.9 | 3026.0 | 801.1 | 582.9 | 498.0 | 453.0 | 418.0 | 399.7 | 388.0 | 388.0 |
| 7757.4 | 35° | 5602.4 | 3022.7 | 826.0 | 597.9 | 471.3 | 413.0 | 386.4 | 374.7 | 363.1 | 363.1 |
| 8283.6 | 37.5° | 5930.4 | 3027.7 | 846.0 | 622.9 | 461.3 | 379.7 | 364.7 | 349.7 | 343.1 | 343.1 |
| 8859.9 | 40° | 6420.1 | 3192.5 | 836.0 | 644.5 | 458.0 | 356.4 | 326.4 | 321.4 | 316.4 | 316.4 |
| 9511.0 | 42.5° | 7019.6 | 3550.6 | 849.3 | 646.2 | 456.3 | 339.7 | 299.8 | 309.8 | 298.1 | 296.4 |
| 10245.5 | 45° | 7675.8 | 3942.0 | 934.3 | 611.2 | 454.7 | 331.4 | 286.4 | 298.1 | 279.8 | 279.8 |
| 11096.5 | 47.5° | 8326.9 | 4330.0 | 1020.9 | 561.2 | 449.7 | 329.7 | 274.8 | 268.1 | 263.1 | 264.8 |
| 12205.6 | 50° | 9224.6 | 4646.4 | 1054.2 | 493.0 | 438.0 | 326.4 | 253.1 | 254.8 | 251.5 | 254.8 |
| 13769.4 | 52.5° | 10202.2 | 4713.0 | 1014.2 | 416.3 | 404.7 | 316.4 | 238.2 | 244.8 | 243.1 | 246.5 |
| 14870.2 | 55° | 10811.7 | 4641.4 | 837.7 | 346.4 | 353.1 | 276.5 | 223.2 | 236.5 | 236.5 | 236.5 |
| 15946.1 | 57.5° | 11441.2 | 4336.7 | 594.5 | 281.5 | 293.1 | 226.5 | 209.8 | 228.2 | 226.5 | 224.8 |
| 17241.8 | 60° | 11894.2 | 3843.7 | 391.4 | 231.5 | 233.2 | 186.5 | 194.9 | 214.8 | 213.2 | 204.8 |
| 18577.4 | 62.5° | 12232.3 | 3299.1 | 251.5 | 196.5 | 178.2 | 168.2 | 178.2 | 194.9 | 188.2 | 169.9 |
| 19709.9 | 65° | 12194.0 | 2544.7 | 193.2 | 168.2 | 146.6 | 146.6 | 154.9 | 169.9 | 149.9 | 119.9 |
| 19926.4 | 67.5° | 11482.8 | 1722.0 | 159.9 | 141.6 | 123.2 | 121.6 | 128.2 | 141.6 | 128.2 | 101.6 |
| 18817.2 | 70° | 10212.2 | 1125.8 | 128.2 | 109.9 | 98.3 | 89.9 | 103.3 | 121.6 | 108.3 | 81.6 |
| 16019.4 | 72.5° | 8288.6 | 686.1 | 96.6 | 79.9 | 71.6 | 58.3 | 81.6 | 99.9 | 86.6 | 60.0 |
| 11139.8 | 75° | 5362.5 | 349.7 | 66.6 | 51.6 | 38.3 | 35.0 | 60.0 | 74.9 | 60.0 | 36.6 |
| 4942.9 | 77.5° | 2051.8 | 146.6 | 36.6 | 23.3 | 20.0 | 16.7 | 33.3 | 45.0 | 25.0 | 8.3 |
| 957.6 | 80° | 394.7 | 61.6 | 18.3 | 11.7 | 10.0 | 6.7 | 5.0 | 3.3 | 0.0 | 0.0 |
| 169.9 | 82.5° | 68.3 | 20.0 | 6.7 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 33.3 | 85° | 23.3 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11.7 | 87.5° | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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|-------------|
| <u>180°</u> |
| 3092.6 |
| 1876.9 |
| 1099.2 |
| 894.3 |
| 826.0 |
| 762.7 |
| 702.8 |
| 647.8 |
| 594.5 |
| 542.9 |
| 491.3 |
| 449.7 |
| 414.7 |
| 388.0 |
| 363.1 |
| 343.1 |
| 316.4 |
| 294.8 |
| 279.8 |
| 264.8 |
| 254.8 |
| 246.5 |
| 236.5 |
| 224.8 |
| 204.8 |
| 166.5 |
| 116.6 |
| 98.3 |
| 78.3 |
| 56.6 |
| 31.6 |
| 6.7 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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