

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: P951500

Luminaire Tested: **GALN-SB5C-850-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951500  
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-SB5C-850-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

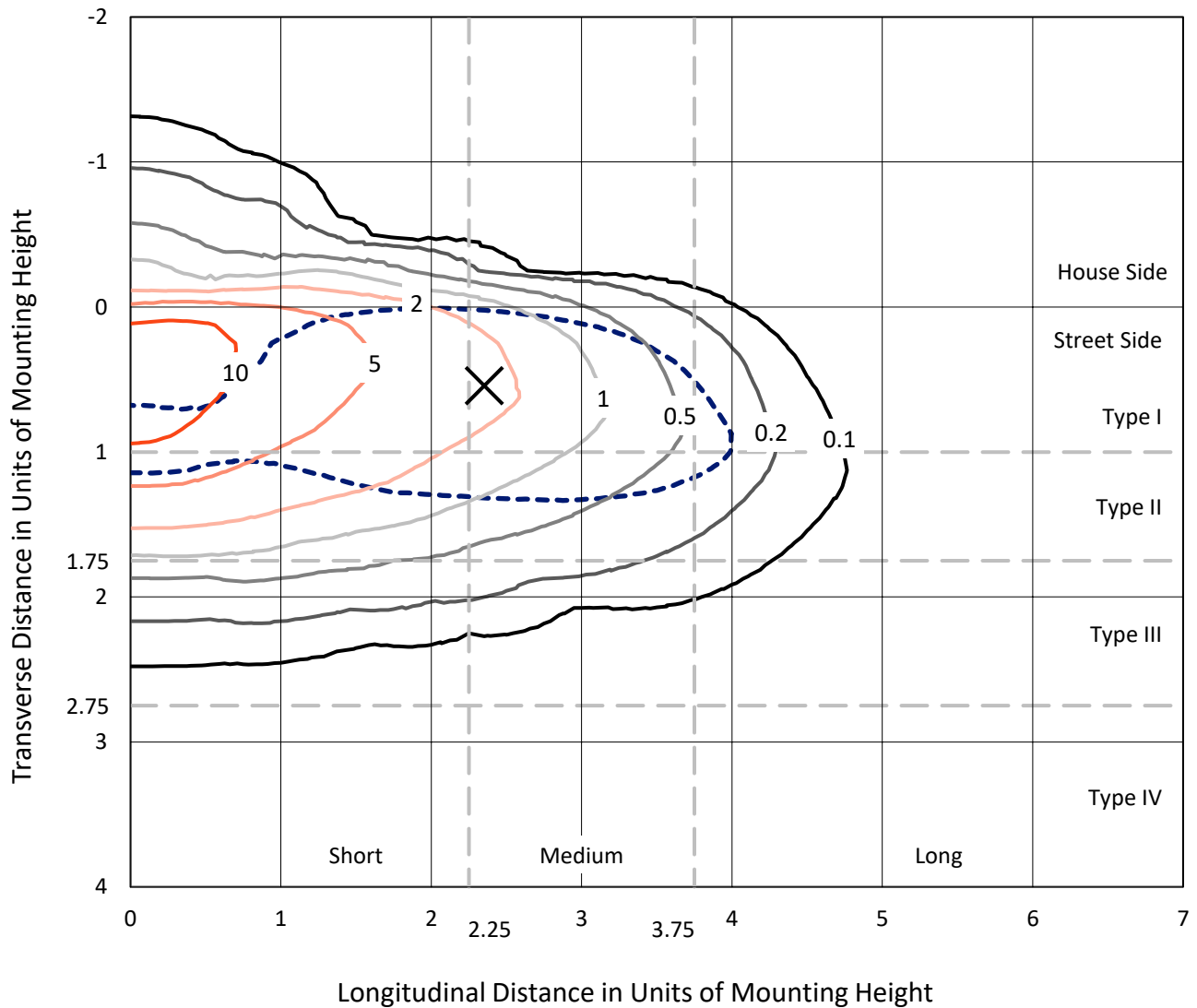
Lumens per Lamp: N/A  
Luminaire Lumens: 30638 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

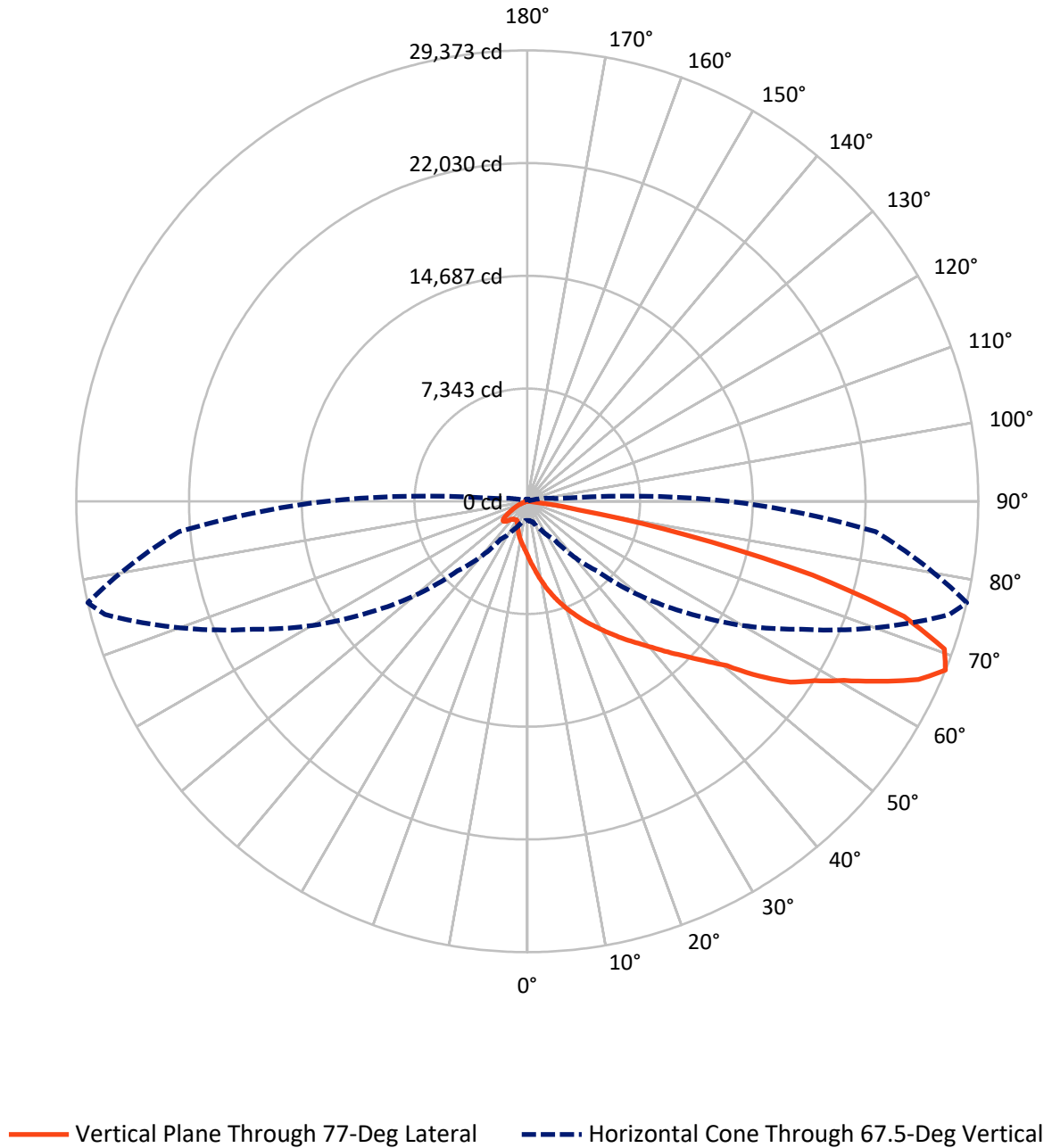
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2254.1   | 0.0    | 2254.1  |
|                    | % Fixture | 7.4      | 0.0    | 7.4     |
| <b>Street Side</b> | Lumens    | 28383.9  | 0.0    | 28383.9 |
|                    | % Fixture | 92.6     | 0.0    | 92.6    |
| <b>Total</b>       | Lumens    | 30638.0  | 0.0    | 30638.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 360.6   | 1.2       |
| 10°-20°   | 1262.8  | 4.1       |
| 20°-30°   | 2436.8  | 8.0       |
| 30°-40°   | 4230.5  | 13.8      |
| 40°-50°   | 6142.4  | 20.0      |
| 50°-60°   | 7053.8  | 23.0      |
| 60°-70°   | 6124.0  | 20.0      |
| 70°-80°   | 2884.5  | 9.4       |
| 80°-90°   | 142.6   | 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°    | 30638.0 | 100.0     |
| 0°-180°   | 30638.0 | 100.0     |

**Coefficient of Utilization**



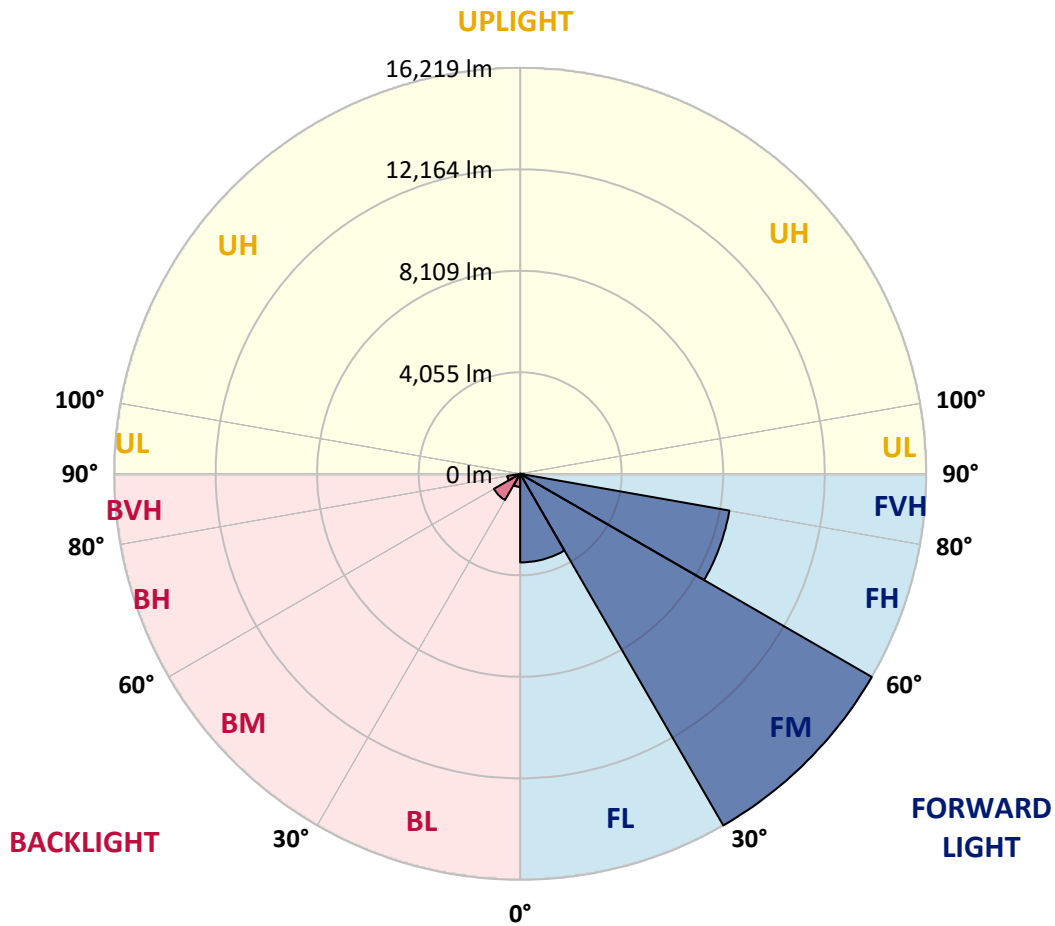
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3538.4  | 11.5      |                         |      |          |
| FM (30°-60°)   | 16218.9 | 52.9      |                         |      |          |
| FH (60°-80°)   | 8486.6  | 27.7      |                         |      | G4/12000 |
| FVH (80°-90°)  | 140.0   | 0.5       |                         |      | G2/225   |
| BL (0°-30°)    | 521.8   | 1.7       | B2/1000                 |      |          |
| BM (30°-60°)   | 1207.8  | 3.9       | B2/2500                 |      |          |
| BH (60°-80°)   | 521.8   | 1.7       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 2.6     | 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-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3533.0  | 3533.0  | 3533.0  | 3533.0  | 3533.0  | 3533.0  | 3533.0  | 3533.0  | 3533.0  | 3533.0  |
| 2.5°  | 4891.4  | 4921.9  | 4878.1  | 4794.4  | 4668.8  | 4587.0  | 4387.3  | 4198.9  | 3989.6  | 3923.0  |
| 5°    | 5962.6  | 5989.2  | 5939.7  | 5848.4  | 5681.0  | 5521.2  | 5258.6  | 4864.8  | 4455.7  | 4324.5  |
| 7.5°  | 6755.9  | 6771.1  | 6752.1  | 6668.4  | 6508.6  | 6327.8  | 6034.8  | 5568.7  | 4961.8  | 4817.2  |
| 10°   | 7326.7  | 7376.1  | 7370.4  | 7338.1  | 7231.5  | 7085.0  | 6773.0  | 6242.2  | 5528.8  | 5342.3  |
| 12.5° | 7705.3  | 7760.4  | 7792.8  | 7865.1  | 7859.4  | 7766.2  | 7492.2  | 6930.9  | 6093.8  | 5875.0  |
| 15°   | 7815.6  | 7874.6  | 7998.3  | 8165.7  | 8314.1  | 8361.7  | 8169.5  | 7606.3  | 6716.0  | 6436.3  |
| 17.5° | 7752.8  | 7844.2  | 7992.6  | 8257.0  | 8582.3  | 8797.3  | 8776.4  | 8258.9  | 7281.0  | 6961.4  |
| 20°   | 7891.7  | 7979.2  | 8095.3  | 8317.9  | 8696.5  | 9086.5  | 9242.5  | 8882.9  | 7842.3  | 7507.4  |
| 22.5° | 8660.3  | 8645.1  | 8656.5  | 8692.7  | 8919.1  | 9305.3  | 9626.8  | 9449.9  | 8397.8  | 8055.3  |
| 25°   | 9878.0  | 9809.5  | 9693.4  | 9497.5  | 9440.4  | 9626.8  | 9961.7  | 9952.2  | 8983.8  | 8616.6  |
| 27.5° | 11274.4 | 11263.0 | 10991.0 | 10519.1 | 10252.8 | 10180.5 | 10340.3 | 10441.1 | 9564.1  | 9172.1  |
| 30°   | 12611.9 | 12642.4 | 12275.2 | 11750.1 | 11261.1 | 10977.6 | 10833.0 | 10905.3 | 10153.8 | 9771.4  |
| 32.5° | 13776.3 | 13808.6 | 13409.1 | 12794.6 | 12189.6 | 11847.1 | 11542.7 | 11363.9 | 10796.9 | 10380.2 |
| 35°   | 14759.9 | 14792.2 | 14333.7 | 13654.5 | 13009.6 | 12699.4 | 12355.1 | 11866.1 | 11443.8 | 11055.6 |
| 37.5° | 15638.9 | 15629.3 | 15014.8 | 14329.9 | 13696.4 | 13450.9 | 13270.2 | 12484.4 | 12109.6 | 11734.9 |
| 40°   | 16158.2 | 16198.2 | 15673.1 | 14917.8 | 14303.3 | 14124.4 | 14113.0 | 13251.2 | 12878.3 | 12514.9 |
| 42.5° | 16310.5 | 16380.8 | 16000.3 | 15380.1 | 14822.7 | 14628.6 | 14927.3 | 14080.7 | 13772.5 | 13418.6 |
| 45°   | 16036.5 | 16105.0 | 15931.8 | 15501.9 | 15176.5 | 15051.0 | 15627.4 | 14940.6 | 14727.5 | 14377.5 |
| 47.5° | 15237.4 | 15323.0 | 15364.9 | 15273.6 | 15269.8 | 15397.2 | 16255.3 | 15846.2 | 15861.5 | 15503.8 |
| 50°   | 13690.7 | 13835.3 | 14219.6 | 14543.0 | 15043.4 | 15671.2 | 16866.0 | 16827.9 | 17140.0 | 16831.7 |
| 52.5° | 10878.7 | 11084.2 | 12408.3 | 13293.0 | 14417.4 | 15619.8 | 17537.6 | 18403.2 | 19383.0 | 18932.1 |
| 55°   | 8742.2  | 8742.2  | 9819.0  | 11474.2 | 13196.0 | 15281.2 | 17830.6 | 19426.8 | 20910.8 | 20804.2 |
| 57.5° | 7126.9  | 7212.5  | 7899.3  | 9362.4  | 11428.5 | 14474.5 | 18011.3 | 20069.9 | 22141.7 | 22063.7 |
| 60°   | 4398.7  | 4583.2  | 5880.7  | 7324.8  | 9417.6  | 13038.1 | 17897.2 | 20720.5 | 23635.2 | 23698.0 |
| 62.5° | 2477.1  | 2545.6  | 3124.0  | 5270.0  | 7322.9  | 11107.0 | 17023.9 | 21083.9 | 25545.4 | 25811.7 |
| 65°   | 1710.4  | 1744.6  | 1967.2  | 3280.0  | 5076.0  | 8843.0  | 15317.3 | 20857.5 | 27459.3 | 27997.7 |
| 67.5° | 1242.4  | 1259.5  | 1398.4  | 2003.4  | 3011.7  | 6411.6  | 12642.4 | 19716.0 | 28473.4 | 29373.3 |
| 70°   | 955.1   | 966.5   | 1067.3  | 1316.6  | 1778.9  | 3957.3  | 9181.6  | 17446.3 | 27739.0 | 28813.9 |
| 72.5° | 776.2   | 787.7   | 865.7   | 974.1   | 1179.6  | 2340.1  | 5564.9  | 14168.2 | 24497.1 | 25657.6 |
| 75°   | 654.5   | 669.7   | 740.1   | 810.5   | 924.6   | 1503.0  | 2610.3  | 9866.6  | 18422.3 | 19183.3 |
| 77.5° | 363.4   | 334.8   | 601.2   | 671.6   | 780.0   | 951.3   | 1221.4  | 5806.5  | 10317.5 | 10528.6 |
| 80°   | 226.4   | 234.0   | 477.5   | 540.3   | 599.3   | 479.4   | 559.3   | 2235.5  | 3576.8  | 3397.9  |
| 82.5° | 13.3    | 30.4    | 367.2   | 390.0   | 410.9   | 205.5   | 211.2   | 759.1   | 861.8   | 791.5   |
| 85°   | 0.0     | 0.0     | 167.4   | 135.1   | 142.7   | 59.0    | 60.9    | 176.9   | 116.1   | 125.6   |
| 87.5° | 0.0     | 0.0     | 0.0     | 3.8     | 0.0     | 5.7     | 11.4    | 15.2    | 5.7     | 7.6     |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3533.0  | 0°    | 3533.0  | 3533.0 | 3533.0 | 3533.0 | 3533.0 | 3533.0 | 3533.0 | 3533.0 | 3533.0 | 3533.0 |
| 3713.8  | 2.5°  | 3580.6  | 3447.4 | 3177.2 | 2912.8 | 2697.8 | 2498.0 | 2355.3 | 2220.3 | 2151.8 | 2148.0 |
| 3953.5  | 5°    | 3689.0  | 3409.3 | 2869.0 | 2391.5 | 2007.2 | 1699.0 | 1499.2 | 1356.5 | 1284.2 | 1259.5 |
| 4248.4  | 7.5°  | 3841.2  | 3420.8 | 2598.9 | 1934.9 | 1482.1 | 1217.6 | 1103.5 | 1057.8 | 1042.6 | 1025.5 |
| 4581.3  | 10°   | 4033.4  | 3447.4 | 2357.2 | 1558.2 | 1168.2 | 1035.0 | 989.3  | 970.3  | 958.9  | 947.5  |
| 4956.1  | 12.5° | 4248.4  | 3472.1 | 2117.5 | 1293.7 | 1027.4 | 958.9  | 926.5  | 903.7  | 888.5  | 875.2  |
| 5340.4  | 15°   | 4457.6  | 3487.4 | 1868.3 | 1109.2 | 955.1  | 899.9  | 865.7  | 840.9  | 820.0  | 804.8  |
| 5717.1  | 17.5° | 4665.0  | 3508.3 | 1634.3 | 998.8  | 896.1  | 840.9  | 806.7  | 776.2  | 759.1  | 742.0  |
| 6112.9  | 20°   | 4895.2  | 3504.5 | 1413.6 | 920.8  | 837.1  | 781.9  | 745.8  | 717.3  | 700.1  | 681.1  |
| 6531.4  | 22.5° | 5108.3  | 3485.4 | 1219.5 | 854.2  | 776.2  | 723.0  | 683.0  | 654.5  | 637.3  | 622.1  |
| 6959.5  | 25°   | 5353.7  | 3470.2 | 1057.8 | 793.4  | 719.2  | 665.9  | 622.1  | 595.5  | 576.5  | 563.2  |
| 7389.5  | 27.5° | 5589.7  | 3447.4 | 939.9  | 738.2  | 664.0  | 612.6  | 570.8  | 540.3  | 523.2  | 513.7  |
| 7832.7  | 30°   | 5821.8  | 3441.7 | 896.1  | 684.9  | 614.5  | 563.2  | 521.3  | 492.8  | 479.4  | 475.6  |
| 8319.8  | 32.5° | 6101.4  | 3456.9 | 915.1  | 665.9  | 568.9  | 517.5  | 477.5  | 456.6  | 443.3  | 443.3  |
| 8862.0  | 35°   | 6400.1  | 3453.1 | 943.7  | 683.0  | 538.4  | 471.8  | 441.4  | 428.1  | 414.8  | 414.8  |
| 9463.2  | 37.5° | 6774.9  | 3458.8 | 966.5  | 711.5  | 527.0  | 433.8  | 416.7  | 399.5  | 391.9  | 391.9  |
| 10121.5 | 40°   | 7334.3  | 3647.2 | 955.1  | 736.3  | 523.2  | 407.1  | 372.9  | 367.2  | 361.5  | 361.5  |
| 10865.4 | 42.5° | 8019.2  | 4056.2 | 970.3  | 738.2  | 521.3  | 388.1  | 342.5  | 353.9  | 340.6  | 338.7  |
| 11704.4 | 45°   | 8768.8  | 4503.3 | 1067.3 | 698.2  | 519.4  | 378.6  | 327.2  | 340.6  | 319.6  | 319.6  |
| 12676.6 | 47.5° | 9512.7  | 4946.6 | 1166.3 | 641.2  | 513.7  | 376.7  | 313.9  | 306.3  | 300.6  | 302.5  |
| 13943.7 | 50°   | 10538.2 | 5308.1 | 1204.3 | 563.2  | 500.4  | 372.9  | 289.2  | 291.1  | 287.3  | 291.1  |
| 15730.2 | 52.5° | 11654.9 | 5384.2 | 1158.6 | 475.6  | 462.3  | 361.5  | 272.1  | 279.7  | 277.8  | 281.6  |
| 16987.8 | 55°   | 12351.3 | 5302.4 | 957.0  | 395.7  | 403.3  | 315.8  | 254.9  | 270.2  | 270.2  | 270.2  |
| 18216.8 | 57.5° | 13070.4 | 4954.2 | 679.2  | 321.5  | 334.8  | 258.7  | 239.7  | 260.6  | 258.7  | 256.8  |
| 19697.0 | 60°   | 13587.9 | 4391.1 | 447.1  | 264.5  | 266.4  | 213.1  | 222.6  | 245.4  | 243.5  | 234.0  |
| 21222.8 | 62.5° | 13974.1 | 3768.9 | 287.3  | 224.5  | 203.6  | 192.2  | 203.6  | 222.6  | 215.0  | 194.1  |
| 22516.5 | 65°   | 13930.4 | 2907.1 | 220.7  | 192.2  | 167.4  | 167.4  | 176.9  | 194.1  | 171.2  | 137.0  |
| 22763.9 | 67.5° | 13118.0 | 1967.2 | 182.6  | 161.7  | 140.8  | 138.9  | 146.5  | 161.7  | 146.5  | 116.1  |
| 21496.8 | 70°   | 11666.4 | 1286.1 | 146.5  | 125.6  | 112.2  | 102.7  | 118.0  | 138.9  | 123.7  | 93.2   |
| 18300.5 | 72.5° | 9468.9  | 783.8  | 110.3  | 91.3   | 81.8   | 66.6   | 93.2   | 114.2  | 98.9   | 68.5   |
| 12726.1 | 75°   | 6126.2  | 399.5  | 76.1   | 59.0   | 43.8   | 40.0   | 68.5   | 85.6   | 68.5   | 41.9   |
| 5646.7  | 77.5° | 2343.9  | 167.4  | 41.9   | 26.6   | 22.8   | 19.0   | 38.1   | 51.4   | 28.5   | 9.5    |
| 1094.0  | 80°   | 450.9   | 70.4   | 20.9   | 13.3   | 11.4   | 7.6    | 5.7    | 3.8    | 0.0    | 0.0    |
| 194.1   | 82.5° | 78.0    | 22.8   | 7.6    | 3.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 38.1    | 85°   | 26.6    | 3.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 13.3    | 87.5° | 9.5     | 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> |
| 3533.0      |
| 2144.2      |
| 1255.7      |
| 1021.7      |
| 943.7       |
| 871.4       |
| 802.9       |
| 740.1       |
| 679.2       |
| 620.2       |
| 561.2       |
| 513.7       |
| 473.7       |
| 443.3       |
| 414.8       |
| 391.9       |
| 361.5       |
| 336.7       |
| 319.6       |
| 302.5       |
| 291.1       |
| 281.6       |
| 270.2       |
| 256.8       |
| 234.0       |
| 190.3       |
| 133.2       |
| 112.2       |
| 89.4        |
| 64.7        |
| 36.1        |
| 7.6         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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