

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: P952565

Luminaire Tested: **GALN-SB6B-850-U-SL3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952565  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6B-850-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

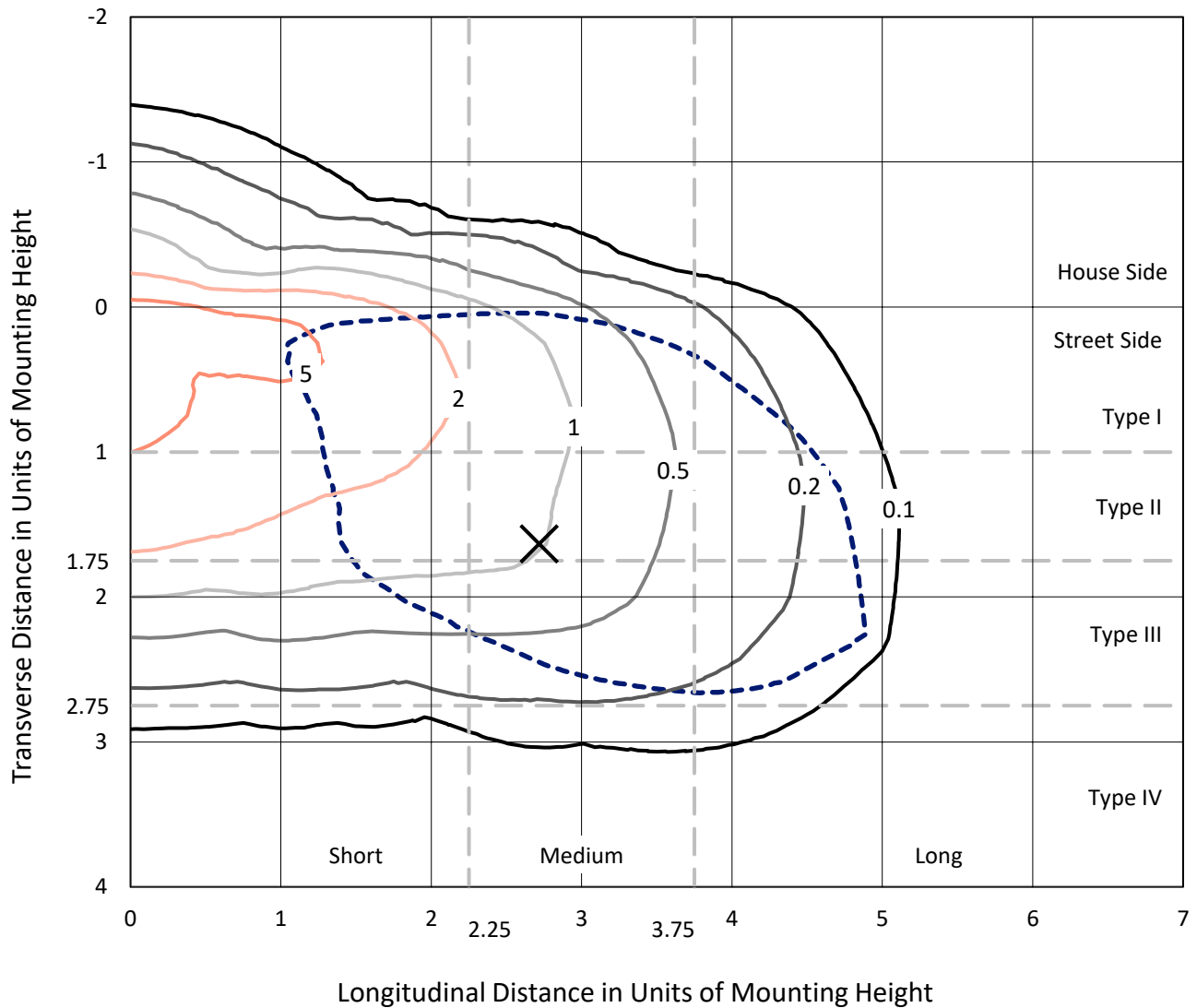
Lumens per Lamp: N/A  
Luminaire Lumens: 26303 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): 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

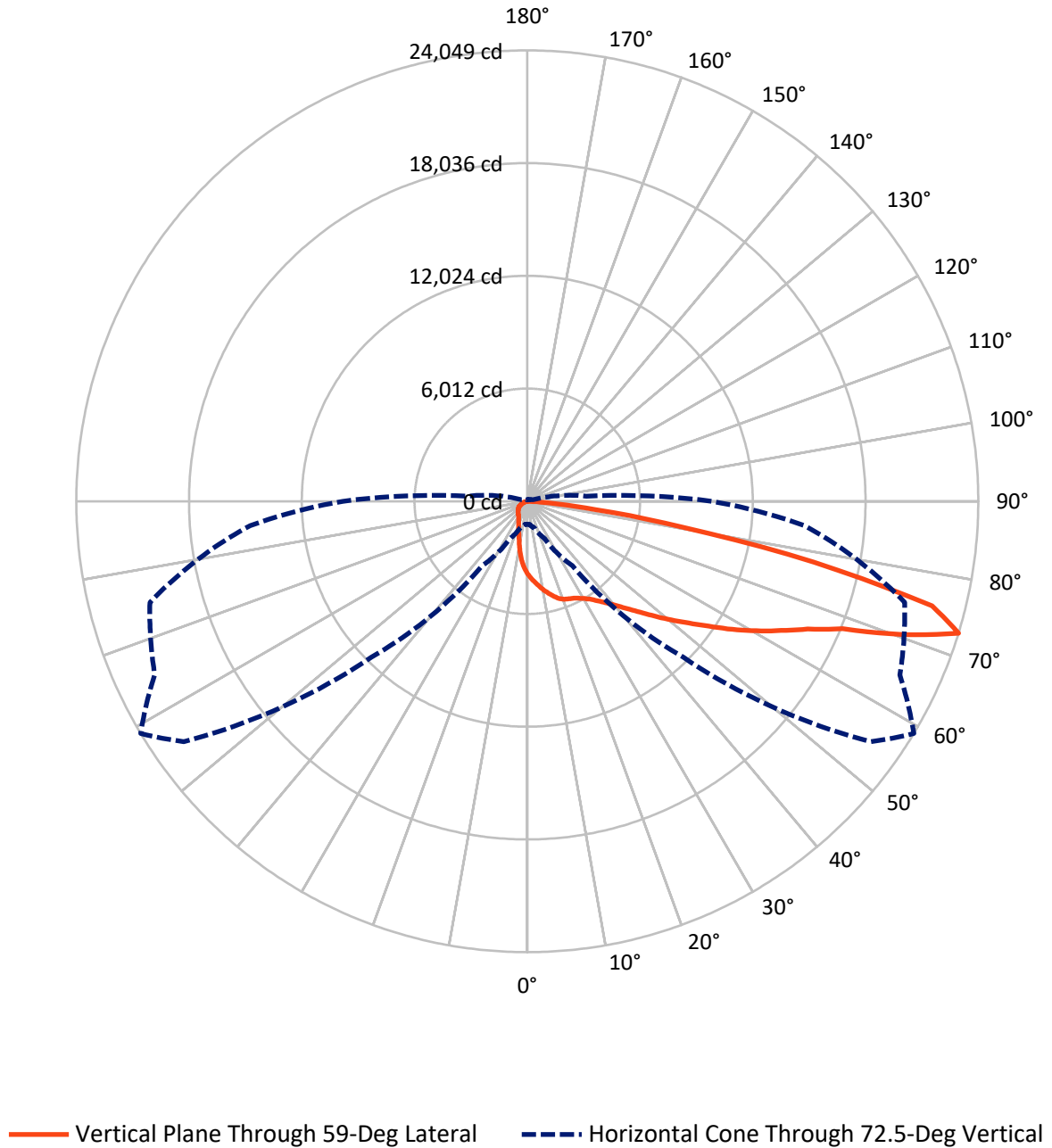
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type III - 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    | 2778.1   | 0.0    | 2778.1  |
|                    | % Fixture | 10.6     | 0.0    | 10.6    |
| <b>Street Side</b> | Lumens    | 23524.9  | 0.0    | 23524.9 |
|                    | % Fixture | 89.4     | 0.0    | 89.4    |
| <b>Total</b>       | Lumens    | 26303.0  | 0.0    | 26303.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 351.9   | 1.3       |
| 10°-20°   | 934.7   | 3.6       |
| 20°-30°   | 1481.4  | 5.6       |
| 30°-40°   | 2377.3  | 9.0       |
| 40°-50°   | 3797.1  | 14.4      |
| 50°-60°   | 5497.7  | 20.9      |
| 60°-70°   | 6524.4  | 24.8      |
| 70°-80°   | 4843.4  | 18.4      |
| 80°-90°   | 495.2   | 1.9       |
| 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°    | 26303.0 | 100.0     |
| 0°-180°   | 26303.0 | 100.0     |

**Coefficient of Utilization**



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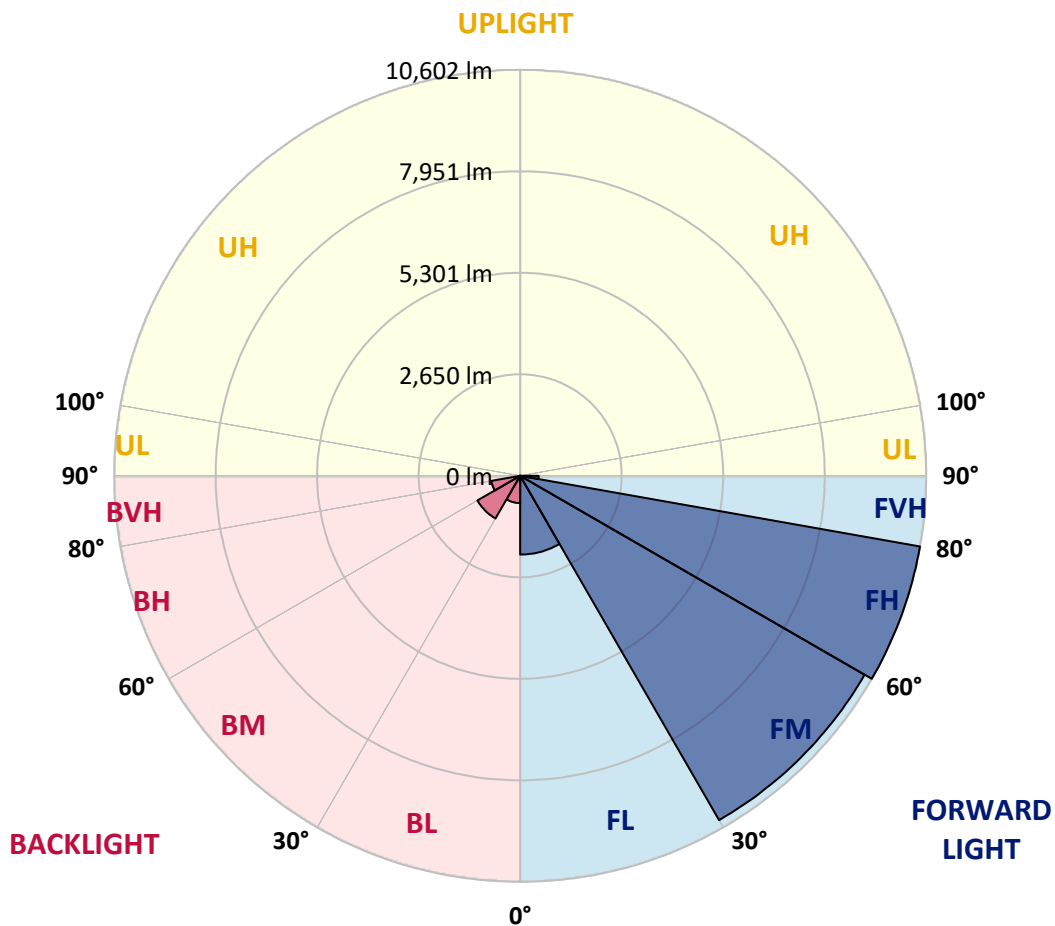
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2056.3  | 7.8       |                         |      |          |
| FM (30°-60°)   | 10384.0 | 39.5      |                         |      |          |
| FH (60°-80°)   | 10601.6 | 40.3      |                         |      | G4/12000 |
| FVH (80°-90°)  | 482.9   | 1.8       |                         |      | G3/500   |
| BL (0°-30°)    | 711.7   | 2.7       | B2/1000                 |      |          |
| BM (30°-60°)   | 1288.0  | 4.9       | B2/2500                 |      |          |
| BH (60°-80°)   | 766.1   | 2.9       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 12.3    | 0.0       |                         |      | G1/100   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°    | 25°    | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     |
|-------|---------|---------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 3889.6  | 3889.6  | 3889.6 | 3889.6 | 3889.6  | 3889.6  | 3889.6  | 3889.6  | 3889.6  | 3889.6  |
| 2.5°  | 4315.5  | 4291.4  | 4294.9 | 4253.6 | 4224.5  | 4193.5  | 4133.4  | 4124.9  | 4081.9  | 4006.4  |
| 5°    | 4691.5  | 4676.1  | 4662.4 | 4616.0 | 4555.9  | 4480.3  | 4379.0  | 4342.9  | 4263.9  | 4133.4  |
| 7.5°  | 4966.3  | 4947.4  | 4954.3 | 4907.9 | 4859.8  | 4775.7  | 4636.6  | 4569.6  | 4464.9  | 4265.7  |
| 10°   | 5019.5  | 5009.2  | 5053.9 | 5071.1 | 5071.1  | 5017.8  | 4882.2  | 4815.2  | 4662.4  | 4408.2  |
| 12.5° | 4720.7  | 4722.5  | 4834.1 | 4968.0 | 5143.2  | 5193.0  | 5102.0  | 5029.8  | 4878.7  | 4559.3  |
| 15°   | 4372.1  | 4373.9  | 4482.0 | 4653.8 | 4940.5  | 5227.3  | 5299.5  | 5253.1  | 5096.8  | 4722.5  |
| 17.5° | 4162.6  | 4154.0  | 4226.2 | 4367.0 | 4667.5  | 5071.1  | 5419.7  | 5450.6  | 5323.5  | 4902.8  |
| 20°   | 4133.4  | 4118.0  | 4155.8 | 4226.2 | 4440.8  | 4875.3  | 5433.4  | 5579.4  | 5557.0  | 5107.1  |
| 22.5° | 4312.0  | 4288.0  | 4267.4 | 4270.8 | 4361.8  | 4712.2  | 5399.1  | 5651.5  | 5797.5  | 5352.7  |
| 25°   | 4665.8  | 4628.0  | 4561.0 | 4475.2 | 4456.3  | 4677.8  | 5375.0  | 5730.5  | 6020.7  | 5666.9  |
| 27.5° | 5098.5  | 5045.3  | 4916.5 | 4787.7 | 4677.8  | 4774.0  | 5424.8  | 5855.8  | 6273.1  | 6032.7  |
| 30°   | 5574.2  | 5509.0  | 5380.2 | 5136.3 | 4961.2  | 4988.6  | 5543.3  | 6020.7  | 6596.0  | 6446.6  |
| 32.5° | 6273.1  | 6122.0  | 5897.1 | 5524.4 | 5292.6  | 5220.5  | 5721.9  | 6230.2  | 6996.1  | 6997.8  |
| 35°   | 6872.5  | 6788.3  | 6561.6 | 6098.0 | 5622.3  | 5527.9  | 5957.2  | 6525.6  | 7550.8  | 7727.7  |
| 37.5° | 7265.7  | 7150.7  | 6951.5 | 6602.9 | 6134.0  | 5843.8  | 6271.4  | 6887.9  | 8138.1  | 8558.8  |
| 40°   | 7705.3  | 7592.0  | 7327.5 | 6999.5 | 6728.2  | 6386.5  | 6668.1  | 7305.2  | 8782.1  | 9412.3  |
| 42.5° | 8236.0  | 8088.3  | 7775.7 | 7422.0 | 7138.6  | 7100.9  | 7186.7  | 7825.5  | 9443.2  | 10339.6 |
| 45°   | 8859.3  | 8720.2  | 8361.3 | 7914.8 | 7665.8  | 7598.9  | 7839.3  | 8431.7  | 10179.9 | 11356.2 |
| 47.5° | 9443.2  | 9281.8  | 8895.4 | 8488.4 | 8211.9  | 8000.7  | 8533.1  | 9147.8  | 11014.5 | 12419.2 |
| 50°   | 9939.5  | 9774.6  | 9420.9 | 8986.4 | 8799.2  | 8522.7  | 9214.8  | 9946.4  | 11842.2 | 13499.4 |
| 52.5° | 10279.5 | 10133.5 | 9718.0 | 9422.6 | 9295.5  | 9156.4  | 10013.3 | 10793.0 | 12666.5 | 14488.5 |
| 55°   | 10202.2 | 10071.7 | 9705.9 | 9685.3 | 9676.7  | 9822.7  | 10968.1 | 11752.9 | 13506.2 | 15424.4 |
| 57.5° | 9956.7  | 9809.0  | 9352.2 | 9666.4 | 9970.4  | 10416.9 | 12001.9 | 12888.0 | 14426.7 | 16307.1 |
| 60°   | 9233.7  | 9182.2  | 8904.0 | 9630.4 | 10094.0 | 10999.0 | 13183.4 | 14028.3 | 15422.7 | 17083.3 |
| 62.5° | 7703.6  | 7748.3  | 7746.5 | 9705.9 | 10317.3 | 11661.9 | 14256.7 | 15182.3 | 16396.4 | 17830.3 |
| 65°   | 5768.3  | 5922.8  | 6120.3 | 9025.9 | 10616.1 | 12845.1 | 15539.5 | 16434.1 | 17385.5 | 18699.2 |
| 67.5° | 3875.8  | 3999.5  | 4133.4 | 7404.8 | 9726.5  | 14088.4 | 17670.6 | 18149.7 | 18570.4 | 19662.6 |
| 70°   | 2218.7  | 2258.2  | 2445.4 | 4624.6 | 7497.5  | 13744.9 | 21141.2 | 21314.6 | 20337.5 | 20849.2 |
| 72.5° | 1243.3  | 1229.6  | 1476.8 | 2194.7 | 4190.1  | 11770.1 | 22357.0 | 24048.5 | 21919.1 | 20830.3 |
| 75°   | 831.2   | 832.9   | 1016.6 | 1384.1 | 1633.1  | 8239.4  | 19265.9 | 22298.6 | 20971.1 | 18470.8 |
| 77.5° | 566.7   | 585.6   | 747.0  | 1069.9 | 755.6   | 4020.1  | 12745.5 | 15620.2 | 16978.5 | 14263.5 |
| 80°   | 245.6   | 247.3   | 492.9  | 767.6  | 510.0   | 1279.4  | 6608.0  | 8368.2  | 10648.7 | 8009.3  |
| 82.5° | 127.1   | 144.2   | 314.3  | 496.3  | 321.1   | 448.2   | 3122.0  | 3656.0  | 4468.3  | 2350.9  |
| 85°   | 44.6    | 53.2    | 194.1  | 243.9  | 161.4   | 159.7   | 1087.0  | 1107.6  | 946.2   | 353.8   |
| 87.5° | 0.0     | 8.6     | 75.6   | 60.1   | 20.6    | 18.9    | 128.8   | 108.2   | 85.9    | 49.8    |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3889.6  | 0°    | 3889.6  | 3889.6 | 3889.6 | 3889.6 | 3889.6 | 3889.6 | 3889.6 | 3889.6 | 3889.6 | 3889.6 |
| 3929.1  | 2.5°  | 3893.0  | 3846.7 | 3771.1 | 3678.4 | 3570.2 | 3511.8 | 3427.6 | 3376.1 | 3329.8 | 3331.5 |
| 3982.3  | 5°    | 3898.2  | 3820.9 | 3628.6 | 3424.2 | 3197.5 | 3031.0 | 2845.5 | 2715.0 | 2615.4 | 2591.3 |
| 4037.3  | 7.5°  | 3913.6  | 3783.1 | 3468.9 | 3128.8 | 2751.0 | 2471.1 | 2215.3 | 2053.8 | 1962.8 | 1938.8 |
| 4093.9  | 10°   | 3934.2  | 3741.9 | 3288.5 | 2768.2 | 2299.4 | 1962.8 | 1749.9 | 1646.8 | 1605.6 | 1574.7 |
| 4166.1  | 12.5° | 3951.4  | 3699.0 | 3061.9 | 2395.6 | 1897.6 | 1634.8 | 1473.4 | 1387.5 | 1351.5 | 1329.2 |
| 4250.2  | 15°   | 3980.6  | 3642.3 | 2816.3 | 2048.7 | 1626.2 | 1411.6 | 1258.7 | 1195.2 | 1184.9 | 1188.3 |
| 4342.9  | 17.5° | 4009.8  | 3587.3 | 2541.5 | 1777.4 | 1427.0 | 1215.8 | 1123.1 | 1112.8 | 1126.5 | 1140.3 |
| 4449.4  | 20°   | 4042.4  | 3508.4 | 2263.3 | 1573.0 | 1243.3 | 1080.2 | 1056.1 | 1063.0 | 1069.9 | 1093.9 |
| 4595.4  | 22.5° | 4090.5  | 3408.8 | 2019.5 | 1399.6 | 1090.5 | 1014.9 | 1002.9 | 1008.0 | 1013.2 | 1037.2 |
| 4787.7  | 25°   | 4159.2  | 3302.3 | 1822.0 | 1239.9 | 994.3  | 961.7  | 949.6  | 949.6  | 956.5  | 978.8  |
| 5011.0  | 27.5° | 4231.3  | 3151.2 | 1662.3 | 1092.2 | 937.6  | 903.3  | 882.7  | 882.7  | 891.3  | 917.0  |
| 5290.9  | 30°   | 4312.0  | 3013.8 | 1536.9 | 982.3  | 889.5  | 844.9  | 817.4  | 810.5  | 820.8  | 853.5  |
| 5696.1  | 32.5° | 4458.0  | 2924.5 | 1447.6 | 930.8  | 846.6  | 791.7  | 753.9  | 735.0  | 745.3  | 783.1  |
| 6262.8  | 35°   | 4679.5  | 2903.9 | 1385.8 | 905.0  | 805.4  | 743.6  | 690.3  | 661.1  | 669.7  | 709.2  |
| 6961.8  | 37.5° | 4938.8  | 2946.8 | 1325.7 | 870.6  | 765.9  | 697.2  | 626.8  | 589.0  | 602.8  | 638.8  |
| 7760.3  | 40°   | 5311.5  | 3125.4 | 1279.4 | 844.9  | 726.4  | 642.3  | 563.3  | 525.5  | 547.8  | 578.7  |
| 8591.4  | 42.5° | 5761.4  | 3443.1 | 1267.3 | 820.8  | 678.3  | 583.9  | 504.9  | 477.4  | 494.6  | 523.8  |
| 9431.2  | 45°   | 6319.5  | 3848.4 | 1322.3 | 789.9  | 625.1  | 527.2  | 458.5  | 443.1  | 448.2  | 477.4  |
| 10224.5 | 47.5° | 6918.8  | 4263.9 | 1473.4 | 762.5  | 578.7  | 480.8  | 422.4  | 408.7  | 405.3  | 432.7  |
| 10949.2 | 50°   | 7525.0  | 4633.2 | 1652.0 | 741.9  | 546.1  | 443.1  | 395.0  | 377.8  | 369.2  | 386.4  |
| 11665.3 | 52.5° | 8124.3  | 4926.8 | 1768.8 | 707.5  | 513.5  | 405.3  | 370.9  | 345.2  | 329.7  | 338.3  |
| 12378.0 | 55°   | 8732.3  | 5184.4 | 1775.6 | 656.0  | 482.5  | 381.2  | 346.9  | 317.7  | 298.8  | 298.8  |
| 13064.9 | 57.5° | 9300.7  | 5411.1 | 1674.3 | 587.3  | 439.6  | 358.9  | 314.3  | 290.2  | 269.6  | 262.7  |
| 13674.5 | 60°   | 9803.8  | 5579.4 | 1506.0 | 510.0  | 401.8  | 329.7  | 281.6  | 262.7  | 237.0  | 223.2  |
| 14217.2 | 62.5° | 10252.0 | 5661.8 | 1275.9 | 431.0  | 355.5  | 295.4  | 250.7  | 230.1  | 195.8  | 178.6  |
| 14768.4 | 65°   | 10631.5 | 5577.7 | 1035.5 | 357.2  | 316.0  | 257.6  | 214.7  | 194.1  | 156.3  | 135.7  |
| 15388.3 | 67.5° | 11007.6 | 5193.0 | 783.1  | 300.5  | 274.8  | 216.4  | 176.9  | 158.0  | 130.5  | 113.3  |
| 15840.0 | 70°   | 11055.7 | 4384.2 | 547.8  | 252.4  | 228.4  | 166.6  | 142.5  | 130.5  | 106.5  | 91.0   |
| 14831.9 | 72.5° | 9841.6  | 3154.6 | 333.1  | 206.1  | 178.6  | 118.5  | 113.3  | 103.0  | 79.0   | 68.7   |
| 12118.7 | 75°   | 7866.8  | 1933.6 | 195.8  | 154.6  | 118.5  | 84.1   | 84.1   | 73.8   | 53.2   | 44.6   |
| 8366.5  | 77.5° | 5436.8  | 1011.5 | 115.1  | 99.6   | 70.4   | 49.8   | 55.0   | 44.6   | 25.8   | 20.6   |
| 3314.3  | 80°   | 2177.5  | 384.7  | 61.8   | 46.4   | 32.6   | 22.3   | 18.9   | 10.3   | 5.2    | 3.4    |
| 680.0   | 82.5° | 434.5   | 101.3  | 20.6   | 12.0   | 12.0   | 5.2    | 0.0    | 0.0    | 0.0    | 0.0    |
| 187.2   | 85°   | 111.6   | 22.3   | 5.2    | 3.4    | 3.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 61.8    | 87.5° | 34.3    | 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> |
|-------------|
| 3889.6      |
| 3369.3      |
| 2627.4      |
| 1962.8      |
| 1593.6      |
| 1341.2      |
| 1193.5      |
| 1145.4      |
| 1100.8      |
| 1044.1      |
| 987.4       |
| 927.3       |
| 862.1       |
| 793.4       |
| 721.2       |
| 649.1       |
| 583.9       |
| 528.9       |
| 491.1       |
| 449.9       |
| 393.3       |
| 345.2       |
| 302.2       |
| 264.5       |
| 219.8       |
| 176.9       |
| 135.7       |
| 113.3       |
| 89.3        |
| 67.0        |
| 44.6        |
| 20.6        |
| 5.2         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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