

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: P942764

Luminaire Tested: **GALN-SB6D-935-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942764  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6D-935-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 90 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

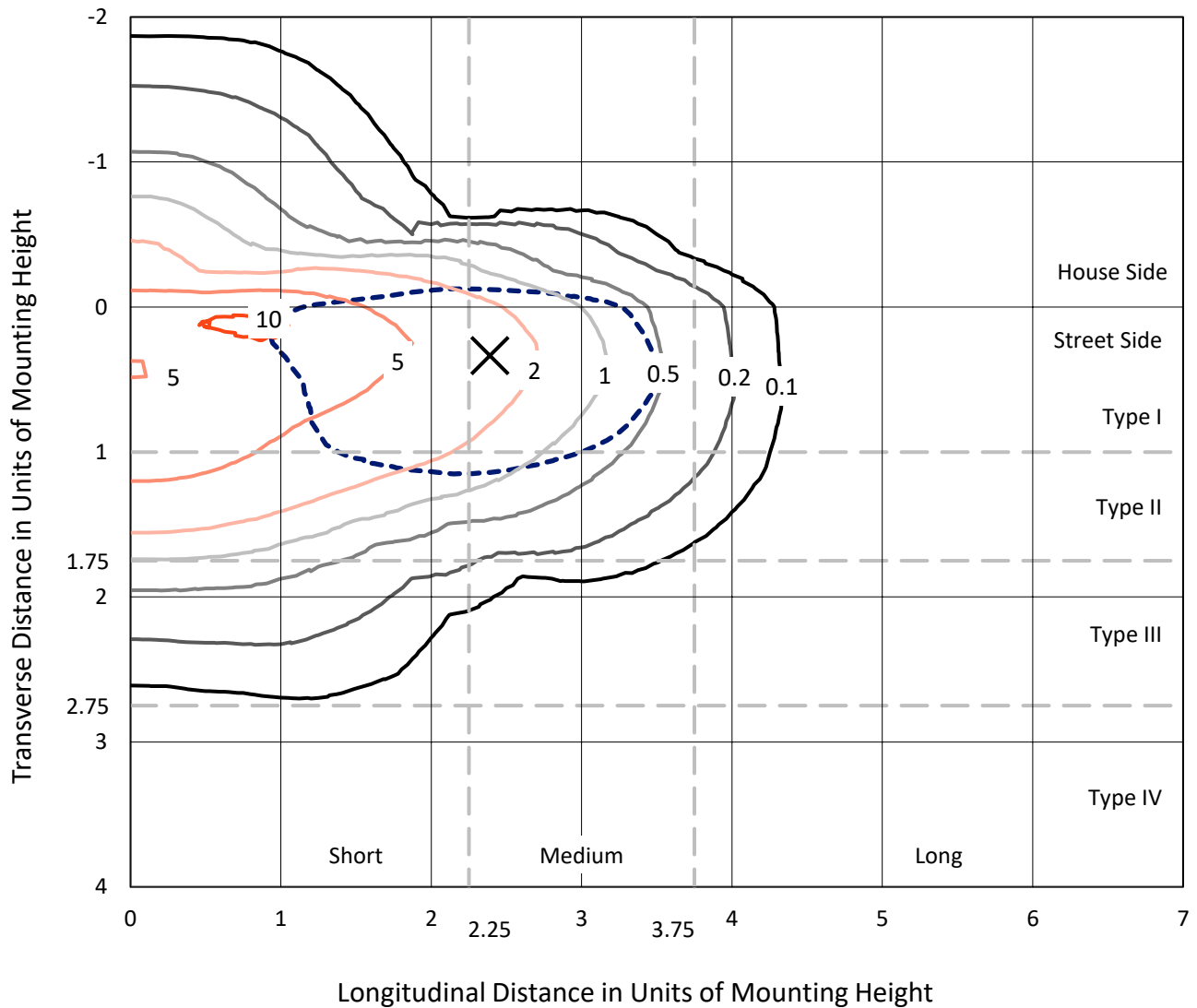
Lumens per Lamp: N/A  
Luminaire Lumens: 31347 lumens  
Efficiency: N/A  
Efficacy: 71.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

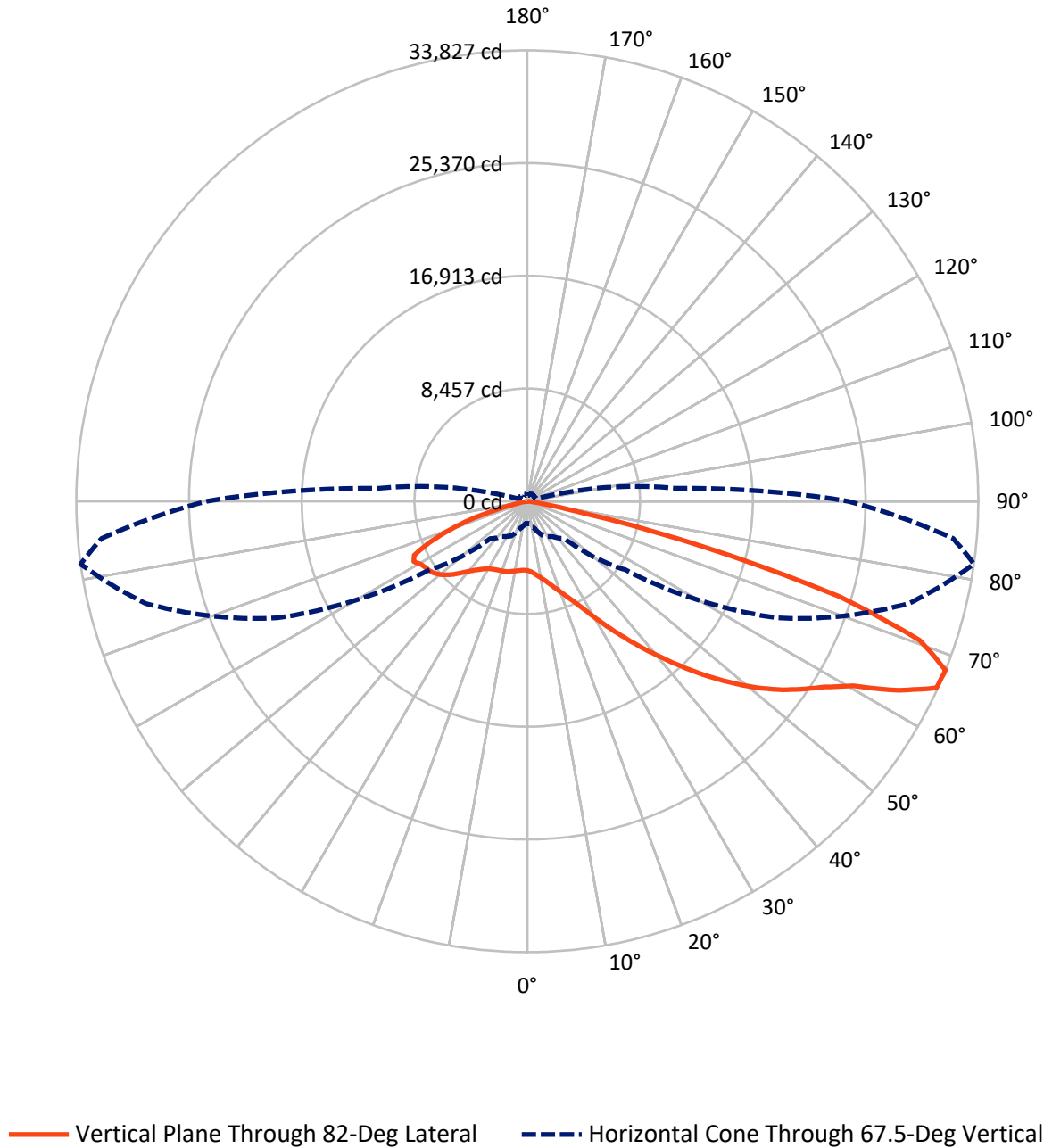
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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    | 5678.2   | 0.0    | 5678.2  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 25668.8  | 0.0    | 25668.8 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 31347.0  | 0.0    | 31347.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 462.7   | 1.5       |
| 10°-20°   | 1202.3  | 3.8       |
| 20°-30°   | 1925.7  | 6.1       |
| 30°-40°   | 3405.2  | 10.9      |
| 40°-50°   | 5966.3  | 19.0      |
| 50°-60°   | 7957.3  | 25.4      |
| 60°-70°   | 7407.8  | 23.6      |
| 70°-80°   | 2843.1  | 9.1       |
| 80°-90°   | 176.6   | 0.6       |
| 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°    | 31347.0 | 100.0     |
| 0°-180°   | 31347.0 | 100.0     |

**Coefficient of Utilization**



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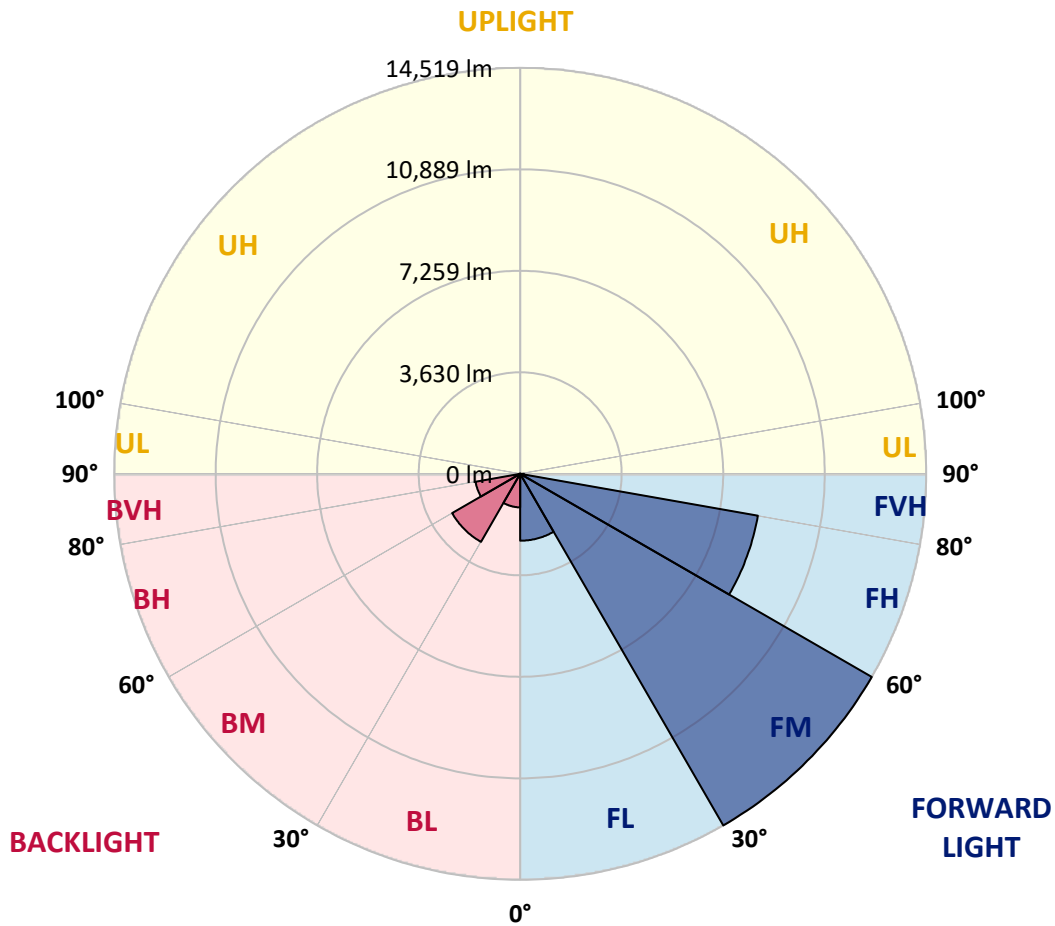
CATALOG NUMBER: GALN-SB6D-935-U-T2-HSS

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2391.4  | 7.6       |                         |      |          |
| FM (30°-60°)   | 14518.7 | 46.3      |                         |      |          |
| FH (60°-80°)   | 8630.3  | 27.5      |                         |      | G4/12000 |
| FVH (80°-90°)  | 128.4   | 0.4       |                         |      | G2/225   |
| BL (0°-30°)    | 1199.2  | 3.8       | B3/2500                 |      |          |
| BM (30°-60°)   | 2810.1  | 9.0       | B3/5000                 |      |          |
| BH (60°-80°)   | 1620.7  | 5.2       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 48.2    | 0.2       |                         |      | G1/100   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 82°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5193.1  | 5193.1  | 5193.1  | 5193.1  | 5193.1  | 5193.1  | 5193.1  | 5193.1  | 5193.1  | 5193.1  |
| 2.5°  | 5488.8  | 5520.4  | 5502.3  | 5493.3  | 5477.5  | 5454.9  | 5436.9  | 5380.5  | 5321.8  | 5283.4  |
| 5°    | 5599.4  | 5631.0  | 5628.7  | 5637.7  | 5649.0  | 5655.8  | 5651.3  | 5588.1  | 5504.6  | 5439.1  |
| 7.5°  | 5504.6  | 5540.7  | 5570.0  | 5615.2  | 5694.2  | 5777.7  | 5818.3  | 5804.8  | 5719.0  | 5628.7  |
| 10°   | 5236.0  | 5274.4  | 5344.3  | 5450.4  | 5617.4  | 5798.0  | 5949.2  | 6019.2  | 5965.0  | 5865.7  |
| 12.5° | 4744.0  | 4782.4  | 4920.1  | 5150.3  | 5430.1  | 5743.8  | 6032.7  | 6220.0  | 6233.6  | 6134.3  |
| 15°   | 4191.1  | 4229.4  | 4376.1  | 4665.0  | 5091.6  | 5594.9  | 6077.8  | 6432.2  | 6551.8  | 6466.0  |
| 17.5° | 3848.0  | 3881.9  | 3992.5  | 4224.9  | 4669.5  | 5297.0  | 6062.0  | 6657.9  | 6931.0  | 6863.2  |
| 20°   | 3744.2  | 3773.5  | 3825.5  | 3988.0  | 4358.1  | 4987.8  | 5958.2  | 6870.0  | 7339.5  | 7301.1  |
| 22.5° | 3854.8  | 3881.9  | 3897.7  | 3969.9  | 4202.4  | 4784.6  | 5827.3  | 7086.7  | 7813.4  | 7817.9  |
| 25°   | 4109.8  | 4136.9  | 4118.9  | 4164.0  | 4265.5  | 4721.4  | 5777.7  | 7341.7  | 8409.2  | 8458.9  |
| 27.5° | 4529.6  | 4531.9  | 4489.0  | 4486.7  | 4502.5  | 4816.2  | 5829.6  | 7614.8  | 9160.8  | 9253.3  |
| 30°   | 5371.4  | 5337.6  | 5172.8  | 4994.5  | 4913.3  | 5100.6  | 5974.0  | 7937.5  | 10047.7 | 10212.5 |
| 32.5° | 6669.2  | 6619.5  | 6317.1  | 5890.5  | 5461.7  | 5558.8  | 6233.6  | 8305.4  | 11013.7 | 11311.6 |
| 35°   | 8077.5  | 8063.9  | 7748.0  | 7113.8  | 6364.5  | 6211.0  | 6655.6  | 8788.4  | 12067.7 | 12541.6 |
| 37.5° | 9386.5  | 9379.7  | 9199.1  | 8452.1  | 7540.3  | 7120.5  | 7332.7  | 9420.3  | 13196.1 | 13882.2 |
| 40°   | 10582.6 | 10602.9 | 10422.4 | 9754.3  | 8835.8  | 8287.4  | 8253.5  | 10201.2 | 14451.0 | 15342.4 |
| 42.5° | 11616.3 | 11638.9 | 11456.0 | 10961.8 | 10115.4 | 9578.3  | 9384.2  | 11158.1 | 15676.5 | 16911.0 |
| 45°   | 12318.2 | 12458.1 | 12431.0 | 12036.1 | 11429.0 | 10871.5 | 10742.9 | 12358.8 | 17073.5 | 18574.3 |
| 47.5° | 12516.8 | 12645.4 | 12848.6 | 12902.7 | 12532.6 | 11984.2 | 12137.6 | 13805.5 | 18486.3 | 20239.9 |
| 50°   | 12027.0 | 12146.7 | 12568.7 | 13130.7 | 13388.0 | 13218.7 | 13494.0 | 15356.0 | 19933.0 | 21901.0 |
| 52.5° | 11061.1 | 11183.0 | 11715.6 | 12604.8 | 13654.3 | 14186.9 | 14854.9 | 16883.9 | 21334.5 | 23474.1 |
| 55°   | 9664.1  | 9792.7  | 10476.6 | 11483.1 | 13146.5 | 14586.4 | 15990.2 | 18409.6 | 22618.7 | 24889.1 |
| 57.5° | 7763.8  | 7858.5  | 8569.5  | 9977.8  | 11869.1 | 14189.2 | 16827.5 | 20075.2 | 23828.4 | 26279.4 |
| 60°   | 5060.0  | 5143.5  | 5969.5  | 7540.3  | 9752.1  | 12862.1 | 16994.5 | 21932.6 | 25435.3 | 28087.2 |
| 62.5° | 3365.0  | 3421.5  | 3911.2  | 5064.5  | 6867.8  | 10314.1 | 16017.3 | 23415.4 | 27791.5 | 31233.3 |
| 65°   | 2308.8  | 2365.2  | 2855.0  | 3658.4  | 4437.1  | 6822.6  | 13207.4 | 23219.0 | 29926.6 | 33731.7 |
| 67.5° | 1647.5  | 1694.9  | 2110.2  | 2868.5  | 3211.6  | 3963.1  | 8953.1  | 20709.4 | 29619.6 | 33826.5 |
| 70°   | 1180.4  | 1207.4  | 1550.5  | 2234.3  | 2552.6  | 2381.0  | 4978.7  | 15839.0 | 25934.1 | 31235.6 |
| 72.5° | 826.0   | 835.1   | 1076.5  | 1701.7  | 2056.0  | 1737.8  | 2369.7  | 10560.1 | 19614.8 | 24516.8 |
| 75°   | 559.7   | 571.0   | 724.5   | 1248.1  | 1649.8  | 1327.1  | 1254.8  | 5662.6  | 11514.7 | 13570.8 |
| 77.5° | 343.0   | 347.6   | 467.2   | 853.1   | 1234.5  | 1011.1  | 808.0   | 2399.1  | 4455.1  | 4373.9  |
| 80°   | 194.1   | 194.1   | 297.9   | 530.4   | 841.8   | 652.2   | 566.5   | 1020.1  | 1410.6  | 1239.0  |
| 82.5° | 108.3   | 110.6   | 216.7   | 329.5   | 557.5   | 385.9   | 311.5   | 471.7   | 609.4   | 539.4   |
| 85°   | 45.1    | 49.7    | 133.2   | 155.7   | 266.3   | 191.8   | 126.4   | 198.6   | 225.7   | 200.9   |
| 87.5° | 4.5     | 6.8     | 40.6    | 29.3    | 31.6    | 38.4    | 18.1    | 38.4    | 31.6    | 31.6    |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5193.1  | 0°    | 5193.1  | 5193.1  | 5193.1 | 5193.1 | 5193.1 | 5193.1 | 5193.1 | 5193.1 | 5193.1 | 5193.1 |
| 5269.9  | 2.5°  | 5227.0  | 5193.1  | 5107.4 | 5008.1 | 4877.2 | 4814.0 | 4728.2 | 4669.5 | 4619.9 | 4624.4 |
| 5400.8  | 5°    | 5328.6  | 5242.8  | 5051.0 | 4811.7 | 4513.8 | 4301.7 | 4076.0 | 3920.2 | 3793.9 | 3766.8 |
| 5581.3  | 7.5°  | 5468.5  | 5333.1  | 4996.8 | 4565.7 | 4062.4 | 3681.0 | 3340.2 | 3121.3 | 2965.6 | 2915.9 |
| 5800.2  | 10°   | 5649.0  | 5452.7  | 4926.8 | 4256.5 | 3532.1 | 3046.8 | 2681.2 | 2509.7 | 2403.6 | 2367.5 |
| 6057.5  | 12.5° | 5858.9  | 5590.4  | 4834.3 | 3879.6 | 2985.9 | 2518.7 | 2286.2 | 2200.5 | 2166.6 | 2155.3 |
| 6373.5  | 15°   | 6123.0  | 5761.9  | 4694.4 | 3432.8 | 2523.2 | 2196.0 | 2096.7 | 2085.4 | 2089.9 | 2085.4 |
| 6752.7  | 17.5° | 6436.7  | 5949.2  | 4466.4 | 2972.3 | 2211.8 | 2031.2 | 1995.1 | 2004.1 | 2015.4 | 2013.2 |
| 7177.0  | 20°   | 6779.7  | 6134.3  | 4175.3 | 2563.8 | 1999.6 | 1913.9 | 1893.5 | 1902.6 | 1911.6 | 1907.1 |
| 7666.7  | 22.5° | 7170.2  | 6332.9  | 3852.5 | 2245.6 | 1857.4 | 1805.5 | 1783.0 | 1785.2 | 1785.2 | 1776.2 |
| 8287.4  | 25°   | 7637.4  | 6551.8  | 3514.0 | 2019.9 | 1749.1 | 1708.5 | 1681.4 | 1672.4 | 1658.8 | 1631.7 |
| 9041.2  | 27.5° | 8194.8  | 6784.3  | 3189.0 | 1861.9 | 1663.3 | 1625.0 | 1593.4 | 1570.8 | 1537.0 | 1491.8 |
| 9946.2  | 30°   | 8822.2  | 7066.4  | 2913.7 | 1762.6 | 1595.6 | 1557.3 | 1521.2 | 1487.3 | 1437.6 | 1381.2 |
| 10986.6 | 32.5° | 9560.2  | 7368.8  | 2712.8 | 1697.2 | 1534.7 | 1494.1 | 1451.2 | 1410.6 | 1356.4 | 1300.0 |
| 12155.7 | 35°   | 10440.4 | 7734.4  | 2595.4 | 1652.1 | 1487.3 | 1433.1 | 1385.7 | 1340.6 | 1300.0 | 1250.3 |
| 13426.3 | 37.5° | 11395.1 | 8122.6  | 2559.3 | 1629.5 | 1455.7 | 1372.2 | 1318.0 | 1286.4 | 1281.9 | 1252.6 |
| 14800.8 | 40°   | 12440.1 | 8583.0  | 2586.4 | 1615.9 | 1421.8 | 1313.5 | 1254.8 | 1248.1 | 1259.4 | 1207.4 |
| 16270.0 | 42.5° | 13545.9 | 9129.2  | 2631.6 | 1600.1 | 1374.5 | 1254.8 | 1198.4 | 1198.4 | 1189.4 | 1117.2 |
| 17822.8 | 45°   | 14742.1 | 9758.9  | 2676.7 | 1561.8 | 1318.0 | 1196.2 | 1153.3 | 1137.5 | 1099.1 | 1029.1 |
| 19384.6 | 47.5° | 15947.3 | 10399.8 | 2710.5 | 1491.8 | 1250.3 | 1146.5 | 1108.1 | 1072.0 | 1015.6 | 952.4  |
| 20917.0 | 50°   | 17091.5 | 10975.3 | 2674.4 | 1388.0 | 1173.6 | 1099.1 | 1058.5 | 1008.8 | 947.9  | 905.0  |
| 22368.2 | 52.5° | 18113.9 | 11474.1 | 2521.0 | 1266.1 | 1092.3 | 1049.5 | 1013.4 | 961.4  | 911.8  | 866.7  |
| 23677.2 | 55°   | 19003.1 | 11878.1 | 2250.1 | 1151.0 | 1020.1 | 1006.6 | 970.5  | 905.0  | 837.3  | 798.9  |
| 24974.9 | 57.5° | 19856.2 | 12185.0 | 1911.6 | 1056.2 | 954.7  | 959.2  | 905.0  | 846.3  | 783.1  | 742.5  |
| 26724.0 | 60°   | 20991.5 | 12595.8 | 1568.5 | 968.2  | 884.7  | 898.2  | 839.6  | 796.7  | 717.7  | 665.8  |
| 29723.4 | 62.5° | 22806.0 | 13234.5 | 1245.8 | 859.9  | 803.5  | 808.0  | 783.1  | 731.2  | 636.4  | 575.5  |
| 31946.5 | 65°   | 24245.9 | 12999.8 | 981.8  | 742.5  | 710.9  | 717.7  | 717.7  | 661.3  | 559.7  | 489.7  |
| 32066.1 | 67.5° | 24083.4 | 11131.1 | 783.1  | 627.4  | 622.9  | 627.4  | 643.2  | 595.8  | 496.5  | 440.1  |
| 29624.1 | 70°   | 22185.4 | 8853.8  | 627.4  | 521.3  | 541.7  | 530.4  | 575.5  | 543.9  | 446.9  | 390.4  |
| 22966.3 | 72.5° | 18102.6 | 6378.0  | 478.5  | 431.1  | 415.3  | 433.3  | 519.1  | 489.7  | 372.4  | 309.2  |
| 12164.7 | 75°   | 10578.1 | 3403.4  | 356.6  | 340.8  | 300.2  | 361.1  | 460.4  | 417.5  | 284.4  | 227.9  |
| 3728.4  | 77.5° | 3444.0  | 1187.1  | 261.8  | 250.5  | 223.4  | 291.1  | 392.7  | 352.1  | 232.5  | 180.6  |
| 1092.3  | 80°   | 923.1   | 358.8   | 178.3  | 164.8  | 144.4  | 216.7  | 311.5  | 279.9  | 167.0  | 117.4  |
| 469.4   | 82.5° | 370.1   | 151.2   | 103.8  | 92.5   | 79.0   | 149.0  | 246.0  | 225.7  | 124.1  | 74.5   |
| 146.7   | 85°   | 119.6   | 49.7    | 38.4   | 29.3   | 36.1   | 92.5   | 146.7  | 153.5  | 88.0   | 38.4   |
| 22.6    | 87.5° | 15.8    | 6.8     | 6.8    | 9.0    | 6.8    | 15.8   | 45.1   | 42.9   | 24.8   | 4.5    |
| 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> |
|-------------|
| 5193.1      |
| 4579.3      |
| 3705.8      |
| 2866.3      |
| 2340.4      |
| 2148.6      |
| 2083.1      |
| 2008.6      |
| 1904.8      |
| 1771.7      |
| 1627.2      |
| 1487.3      |
| 1376.7      |
| 1302.2      |
| 1245.8      |
| 1250.3      |
| 1209.7      |
| 1117.2      |
| 1026.9      |
| 950.2       |
| 898.2       |
| 862.1       |
| 794.4       |
| 738.0       |
| 659.0       |
| 571.0       |
| 483.0       |
| 431.1       |
| 383.7       |
| 302.4       |
| 221.2       |
| 173.8       |
| 115.1       |
| 74.5        |
| 29.3        |
| 0.0         |
| 0.0         |

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