

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: P954579

Luminaire Tested: **GALN-SB7D-750-U-SL2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954579  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7D-750-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

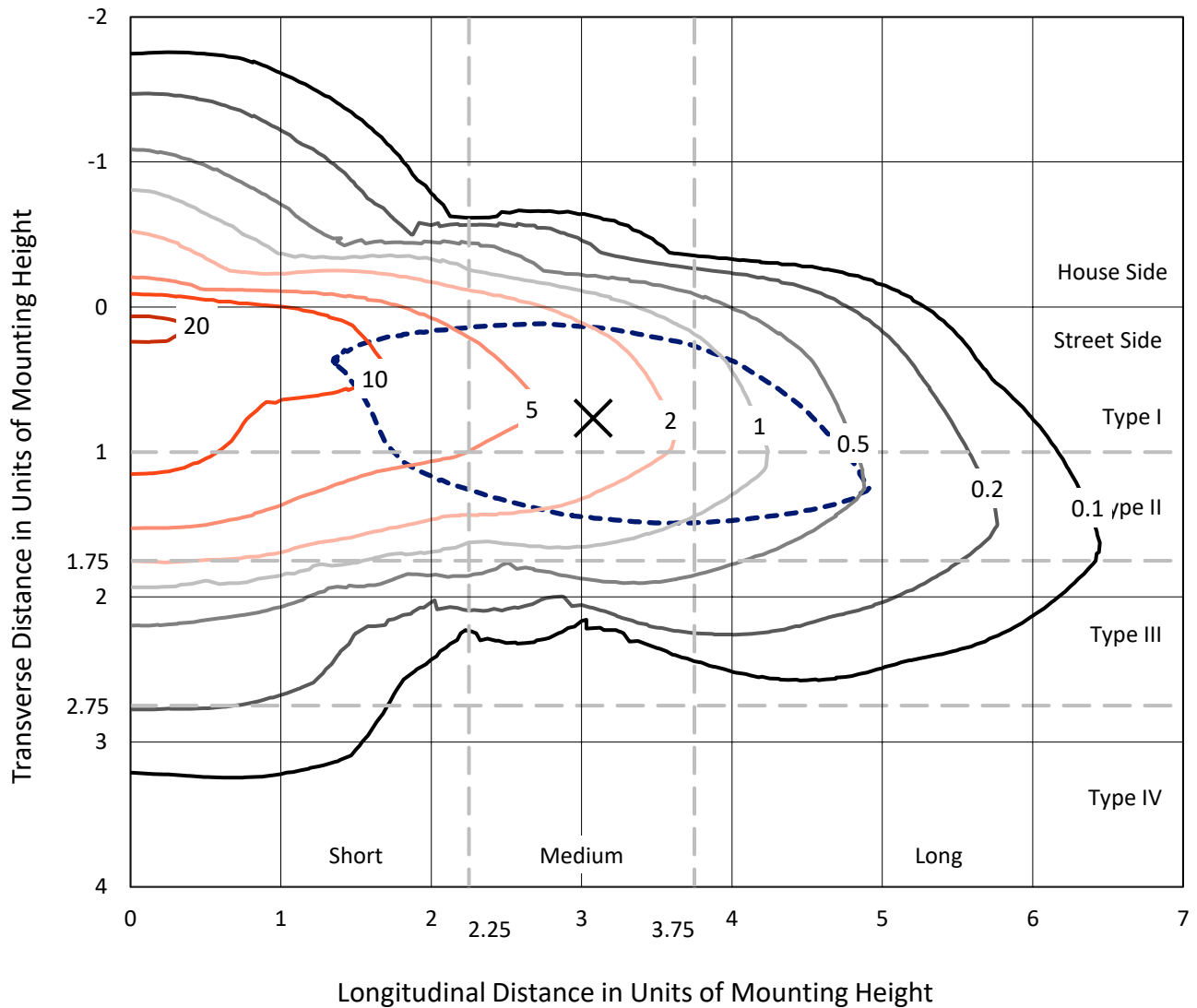
Lumens per Lamp: N/A  
Luminaire Lumens: 62056 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

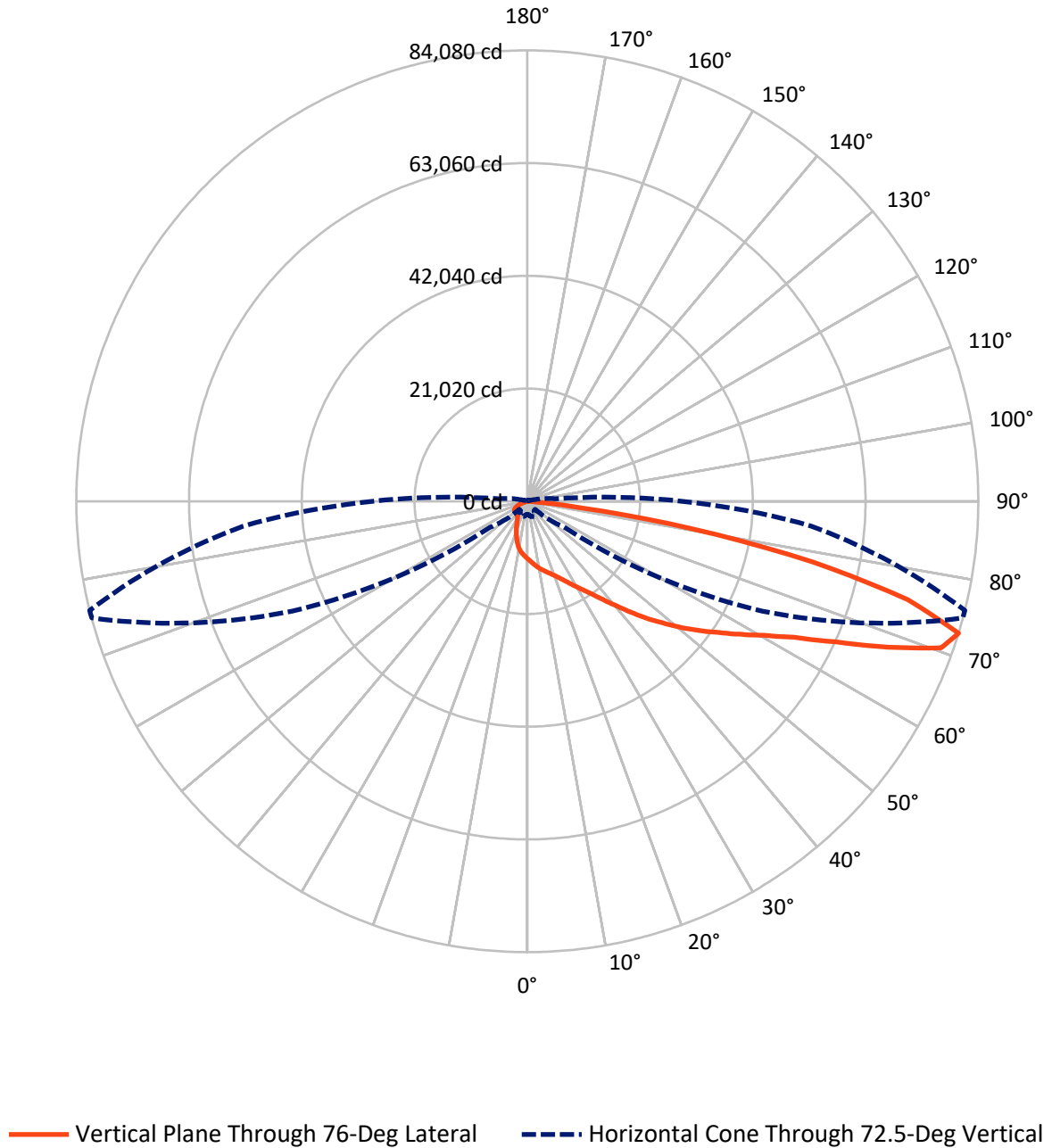
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.6 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    | 6351.4   | 0.0    | 6351.4  |
|                    | % Fixture | 10.2     | 0.0    | 10.2    |
| <b>Street Side</b> | Lumens    | 55704.6  | 0.0    | 55704.6 |
|                    | % Fixture | 89.8     | 0.0    | 89.8    |
| <b>Total</b>       | Lumens    | 62056.0  | 0.0    | 62056.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 975.4   | 1.6       |
| 10°-20°   | 2615.2  | 4.2       |
| 20°-30°   | 4139.1  | 6.7       |
| 30°-40°   | 6403.8  | 10.3      |
| 40°-50°   | 9726.3  | 15.7      |
| 50°-60°   | 13408.6 | 21.6      |
| 60°-70°   | 14165.4 | 22.8      |
| 70°-80°   | 9717.8  | 15.7      |
| 80°-90°   | 904.5   | 1.5       |
| 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°    | 62056.0 | 100.0     |
| 0°-180°   | 62056.0 | 100.0     |

**Coefficient of Utilization**



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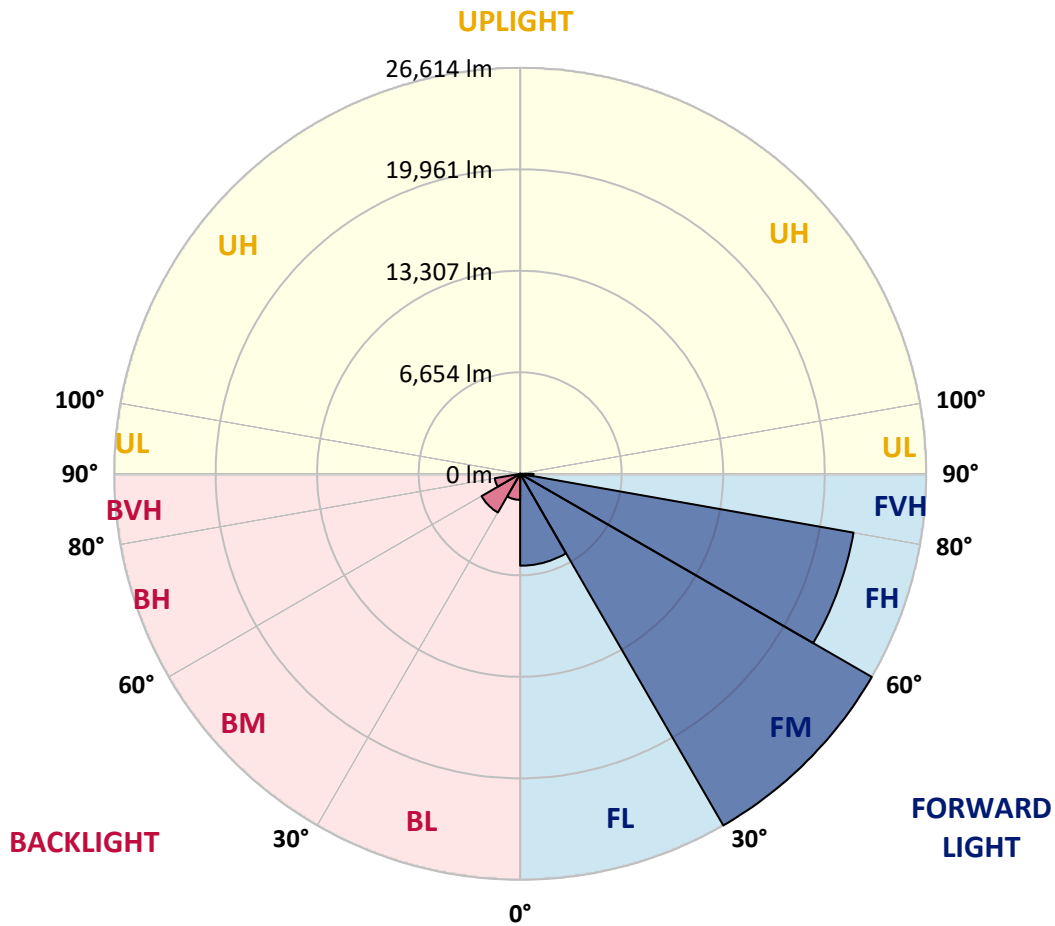
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 6022.4  | 9.7       |                         |      |         |
| FM (30°-60°)   | 26614.4 | 42.9      |                         |      |         |
| FH (60°-80°)   | 22187.7 | 35.8      |                         |      | G5      |
| FVH (80°-90°)  | 880.0   | 1.4       |                         |      | G5      |
| BL (0°-30°)    | 1707.2  | 2.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 2924.2  | 4.7       | B3/5000                 |      |         |
| BH (60°-80°)   | 1695.5  | 2.7       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 24.5    | 0.0       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10723.8 | 10723.8 | 10723.8 | 10723.8 | 10723.8 | 10723.8 | 10723.8 | 10723.8 | 10723.8 | 10723.8 |
| 2.5°  | 12466.8 | 12301.8 | 12334.0 | 12169.0 | 12092.5 | 11907.3 | 11714.1 | 11460.5 | 11178.7 | 11178.7 |
| 5°    | 13779.1 | 13674.5 | 13674.5 | 13481.3 | 13332.3 | 13042.5 | 12696.3 | 12249.5 | 11718.1 | 11665.8 |
| 7.5°  | 14584.2 | 14519.8 | 14560.1 | 14447.4 | 14326.6 | 14024.7 | 13614.1 | 13030.4 | 12277.6 | 12213.2 |
| 10°   | 14741.2 | 14737.2 | 14849.9 | 14882.1 | 14962.6 | 14809.7 | 14443.3 | 13771.1 | 12829.1 | 12736.5 |
| 12.5° | 14133.4 | 14056.9 | 14334.7 | 14660.7 | 15119.6 | 15324.9 | 15135.7 | 14447.4 | 13332.3 | 13203.5 |
| 15°   | 13135.1 | 13151.2 | 13416.8 | 13920.0 | 14684.9 | 15417.5 | 15663.1 | 15107.5 | 13843.5 | 13690.6 |
| 17.5° | 12563.5 | 12503.1 | 12732.5 | 13183.4 | 14028.7 | 15063.3 | 15908.6 | 15723.4 | 14387.0 | 14213.9 |
| 20°   | 12495.0 | 12491.0 | 12543.3 | 12748.6 | 13392.7 | 14556.1 | 15880.4 | 16323.2 | 15027.0 | 14825.8 |
| 22.5° | 12970.0 | 12962.0 | 12917.7 | 12877.4 | 13054.6 | 14060.9 | 15759.7 | 16894.8 | 15791.9 | 15574.5 |
| 25°   | 13698.6 | 13686.6 | 13618.1 | 13372.6 | 13199.5 | 13795.2 | 15647.0 | 17426.2 | 16697.6 | 16456.1 |
| 27.5° | 14588.3 | 14580.2 | 14455.4 | 14085.1 | 13638.2 | 13819.4 | 15590.6 | 17973.7 | 17744.2 | 17506.7 |
| 30°   | 15679.2 | 15663.1 | 15405.4 | 14882.1 | 14298.4 | 14201.8 | 15667.1 | 18589.6 | 18835.1 | 18654.0 |
| 32.5° | 17047.8 | 17003.5 | 16665.4 | 15876.4 | 15059.2 | 14713.0 | 15812.0 | 19221.6 | 20127.3 | 19958.2 |
| 35°   | 18106.5 | 18038.1 | 17840.8 | 17144.4 | 15940.8 | 15341.0 | 16150.1 | 19970.3 | 21681.1 | 21532.2 |
| 37.5° | 19016.3 | 18947.8 | 18786.8 | 18215.2 | 17204.8 | 16142.1 | 16693.6 | 20968.6 | 23516.7 | 23444.3 |
| 40°   | 19998.5 | 19885.8 | 19809.3 | 19197.4 | 18283.6 | 17297.4 | 17470.5 | 22136.0 | 25630.1 | 25638.1 |
| 42.5° | 20755.3 | 20711.0 | 20719.0 | 20248.0 | 19326.2 | 18666.0 | 18501.0 | 23452.3 | 28162.1 | 28238.6 |
| 45°   | 21403.4 | 21367.1 | 21516.1 | 21186.0 | 20376.9 | 19563.7 | 19708.6 | 24941.7 | 30931.6 | 31088.6 |
| 47.5° | 21902.5 | 21942.8 | 22156.1 | 21942.8 | 21467.8 | 20195.7 | 20779.4 | 26547.9 | 33842.0 | 33862.1 |
| 50°   | 22401.7 | 22417.8 | 22772.0 | 22667.3 | 22474.1 | 20996.8 | 21765.6 | 28343.2 | 36909.4 | 36945.6 |
| 52.5° | 22558.7 | 22534.5 | 23098.1 | 23355.7 | 23363.8 | 21987.0 | 23041.7 | 30299.6 | 39916.4 | 40033.2 |
| 55°   | 21753.6 | 21822.0 | 22731.8 | 23778.4 | 24193.0 | 23355.7 | 24764.6 | 32775.3 | 43120.7 | 43169.0 |
| 57.5° | 17816.7 | 18195.1 | 20207.8 | 22635.1 | 24728.4 | 25316.1 | 27240.3 | 35669.6 | 46820.1 | 46775.8 |
| 60°   | 10812.4 | 11263.2 | 13670.5 | 18984.1 | 22981.3 | 27284.5 | 30887.3 | 40153.9 | 50861.6 | 50736.9 |
| 62.5° | 6046.2  | 6183.1  | 6952.0  | 11363.9 | 17478.5 | 26032.6 | 34449.9 | 45914.4 | 56288.0 | 55865.3 |
| 65°   | 4456.2  | 4500.5  | 4681.6  | 5567.2  | 8590.3  | 20022.6 | 33668.9 | 52801.9 | 63912.2 | 63159.4 |
| 67.5° | 3872.5  | 3916.8  | 4093.9  | 4214.7  | 3836.3  | 10518.5 | 27739.4 | 56622.1 | 73593.4 | 72607.2 |
| 70°   | 3260.6  | 3284.8  | 3570.6  | 3651.1  | 2745.4  | 4001.3  | 17820.7 | 55442.6 | 82554.1 | 81849.6 |
| 72.5° | 2431.4  | 2528.0  | 2942.6  | 3135.8  | 2201.9  | 2125.4  | 8389.1  | 48474.5 | 84071.7 | 84079.7 |
| 75°   | 1650.4  | 1739.0  | 2214.0  | 2580.3  | 1698.7  | 1489.4  | 3385.4  | 36196.9 | 73207.0 | 73207.0 |
| 77.5° | 1127.1  | 1199.6  | 1541.7  | 2024.8  | 1288.1  | 1022.5  | 1755.1  | 22973.3 | 52520.1 | 54367.8 |
| 80°   | 499.2   | 543.4   | 994.3   | 1469.3  | 978.2   | 660.2   | 994.3   | 12579.6 | 31760.9 | 31370.4 |
| 82.5° | 245.6   | 281.8   | 636.0   | 917.8   | 632.0   | 406.6   | 523.3   | 5981.8  | 10293.1 | 9781.9  |
| 85°   | 48.3    | 64.4    | 342.2   | 390.5   | 293.9   | 181.1   | 197.2   | 1839.6  | 1239.8  | 1417.0  |
| 87.5° | 0.0     | 0.0     | 104.7   | 72.5    | 32.2    | 40.3    | 40.3    | 165.0   | 96.6    | 112.7   |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 10723.8 | 0°    | 10723.8 | 10723.8 | 10723.8 | 10723.8 | 10723.8 | 10723.8 | 10723.8 | 10723.8 | 10723.8 | 10723.8 |
| 10905.0 | 2.5°  | 10760.0 | 10611.1 | 10285.0 | 9963.0  | 9632.9  | 9331.0  | 9121.7  | 8912.4  | 8783.5  | 8727.2  |
| 11146.5 | 5°    | 10844.6 | 10542.7 | 9858.3  | 9141.8  | 8433.3  | 7741.0  | 7221.7  | 6734.6  | 6581.6  | 6328.0  |
| 11432.3 | 7.5°  | 10977.4 | 10486.3 | 9407.5  | 8199.9  | 7048.6  | 6034.2  | 5301.5  | 4717.8  | 4484.4  | 4258.9  |
| 11677.8 | 10°   | 11066.0 | 10381.7 | 8811.7  | 7197.5  | 5639.7  | 4500.5  | 3800.0  | 3377.4  | 3224.4  | 3087.5  |
| 11907.3 | 12.5° | 11102.2 | 10188.4 | 8127.4  | 6074.4  | 4387.7  | 3429.7  | 3011.0  | 2813.8  | 2761.5  | 2713.2  |
| 12124.7 | 15°   | 11134.4 | 9999.2  | 7362.6  | 4991.6  | 3465.9  | 2870.2  | 2705.1  | 2640.7  | 2604.5  | 2572.3  |
| 12346.1 | 17.5° | 11162.6 | 9757.7  | 6489.0  | 4057.7  | 2926.5  | 2644.7  | 2564.2  | 2495.8  | 2467.6  | 2431.4  |
| 12664.1 | 20°   | 11259.2 | 9524.2  | 5708.1  | 3349.2  | 2632.6  | 2483.7  | 2395.1  | 2322.7  | 2298.5  | 2274.4  |
| 13114.9 | 22.5° | 11440.3 | 9335.0  | 4951.3  | 2870.2  | 2455.5  | 2318.7  | 2206.0  | 2125.4  | 2109.3  | 2093.2  |
| 13662.4 | 25°   | 11657.7 | 9101.6  | 4238.8  | 2560.2  | 2282.4  | 2129.5  | 2004.7  | 1936.2  | 1920.1  | 1924.2  |
| 14294.4 | 27.5° | 11935.5 | 8843.9  | 3626.9  | 2362.9  | 2129.5  | 1952.3  | 1811.5  | 1759.1  | 1767.2  | 1783.3  |
| 15023.0 | 30°   | 12241.4 | 8606.4  | 3147.9  | 2226.1  | 1992.6  | 1795.4  | 1654.5  | 1618.2  | 1646.4  | 1670.6  |
| 15997.2 | 32.5° | 12696.3 | 8397.1  | 2813.8  | 2117.4  | 1871.8  | 1666.5  | 1553.8  | 1509.5  | 1541.7  | 1574.0  |
| 17241.0 | 35°   | 13316.2 | 8292.4  | 2624.6  | 2024.8  | 1767.2  | 1565.9  | 1453.2  | 1421.0  | 1453.2  | 1461.2  |
| 18758.6 | 37.5° | 14077.0 | 8284.4  | 2544.1  | 1948.3  | 1670.6  | 1481.4  | 1356.6  | 1344.5  | 1368.7  | 1372.7  |
| 20582.2 | 40°   | 15059.2 | 8336.7  | 2483.7  | 1892.0  | 1569.9  | 1384.8  | 1268.0  | 1255.9  | 1264.0  | 1292.2  |
| 22776.0 | 42.5° | 16303.1 | 8554.1  | 2399.2  | 1819.5  | 1461.2  | 1288.1  | 1195.6  | 1167.4  | 1163.4  | 1195.6  |
| 25231.6 | 45°   | 17865.0 | 9033.1  | 2286.5  | 1702.8  | 1364.6  | 1207.6  | 1115.1  | 1082.8  | 1070.8  | 1078.8  |
| 27767.6 | 47.5° | 19567.7 | 9620.8  | 2173.7  | 1594.1  | 1296.2  | 1143.2  | 1050.6  | 1010.4  | 990.3   | 990.3   |
| 30138.6 | 50°   | 21218.2 | 10285.0 | 2097.3  | 1481.4  | 1247.9  | 1082.8  | 982.2   | 942.0   | 909.8   | 901.7   |
| 32578.0 | 52.5° | 22852.5 | 10937.2 | 2036.9  | 1368.7  | 1191.5  | 1006.4  | 917.8   | 873.5   | 837.3   | 821.2   |
| 34993.3 | 55°   | 24341.9 | 11557.1 | 1932.2  | 1260.0  | 1119.1  | 925.9   | 853.4   | 809.1   | 764.8   | 736.7   |
| 37440.8 | 57.5° | 25771.0 | 12072.3 | 1739.0  | 1147.3  | 1006.4  | 849.4   | 785.0   | 736.7   | 684.3   | 648.1   |
| 39916.4 | 60°   | 27071.2 | 12338.0 | 1497.5  | 1026.5  | 893.7   | 768.9   | 708.5   | 664.2   | 595.8   | 535.4   |
| 42351.8 | 62.5° | 28061.5 | 12233.4 | 1235.8  | 889.6   | 776.9   | 696.4   | 619.9   | 575.6   | 495.1   | 422.7   |
| 45270.3 | 65°   | 29075.9 | 11661.7 | 986.2   | 744.7   | 680.3   | 599.8   | 519.3   | 475.0   | 382.4   | 305.9   |
| 49219.3 | 67.5° | 30392.2 | 10442.0 | 776.9   | 619.9   | 587.7   | 475.0   | 406.6   | 378.4   | 314.0   | 241.5   |
| 53458.1 | 70°   | 31237.5 | 8111.3  | 603.8   | 503.2   | 483.1   | 346.2   | 314.0   | 310.0   | 249.6   | 185.2   |
| 53172.3 | 72.5° | 28918.9 | 5317.6  | 462.9   | 382.4   | 346.2   | 225.4   | 241.5   | 241.5   | 181.1   | 124.8   |
| 46610.8 | 75°   | 24140.7 | 3111.7  | 334.1   | 273.7   | 197.2   | 144.9   | 165.0   | 165.0   | 112.7   | 60.4    |
| 33222.1 | 77.5° | 17241.0 | 1658.5  | 221.4   | 169.1   | 100.6   | 64.4    | 88.6    | 84.5    | 36.2    | 4.0     |
| 13022.4 | 80°   | 6593.7  | 571.6   | 104.7   | 68.4    | 28.2    | 12.1    | 8.1     | 4.0     | 4.0     | 0.0     |
| 2032.9  | 82.5° | 1006.4  | 148.9   | 20.1    | 16.1    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 430.7   | 85°   | 181.1   | 20.1    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 112.7   | 87.5° | 40.3    | 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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|---------|
| 180°    |
| 10723.8 |
| 8735.2  |
| 6344.1  |
| 4254.9  |
| 3083.5  |
| 2713.2  |
| 2572.3  |
| 2431.4  |
| 2278.4  |
| 2081.2  |
| 1916.1  |
| 1775.2  |
| 1662.5  |
| 1565.9  |
| 1457.2  |
| 1364.6  |
| 1288.1  |
| 1191.5  |
| 1090.9  |
| 990.3   |
| 897.7   |
| 813.1   |
| 724.6   |
| 632.0   |
| 519.3   |
| 394.5   |
| 285.8   |
| 225.4   |
| 165.0   |
| 108.7   |
| 48.3    |
| 0.0     |
| 0.0     |
| 0.0     |
| 0.0     |
| 0.0     |
| 0.0     |

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