

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: P953867

Luminaire Tested: **GALN-SB7B-750-U-SL3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953867  
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-SB7B-750-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

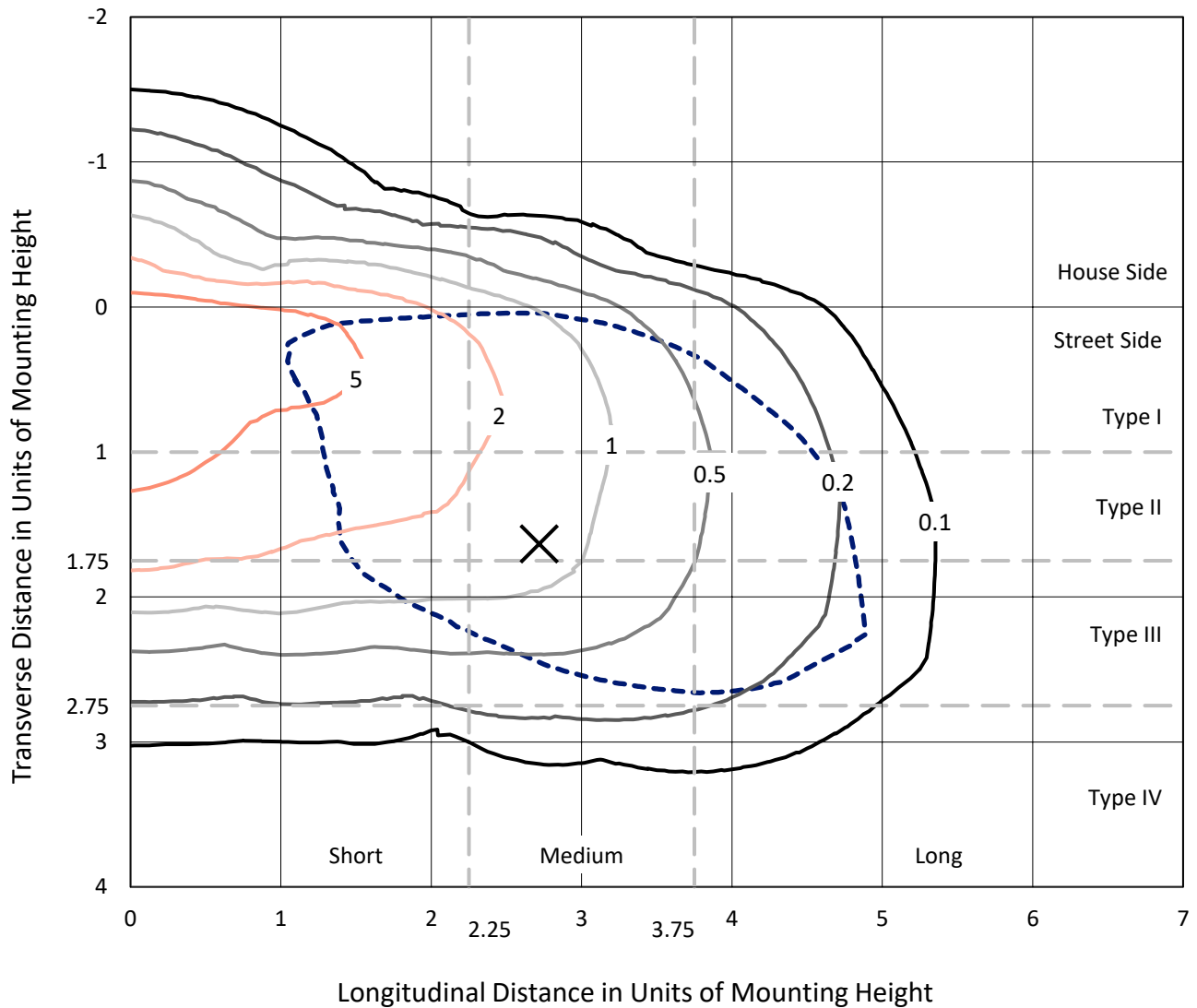
Lumens per Lamp: N/A  
Luminaire Lumens: 34119 lumens  
Efficiency: N/A  
Efficacy: 132.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

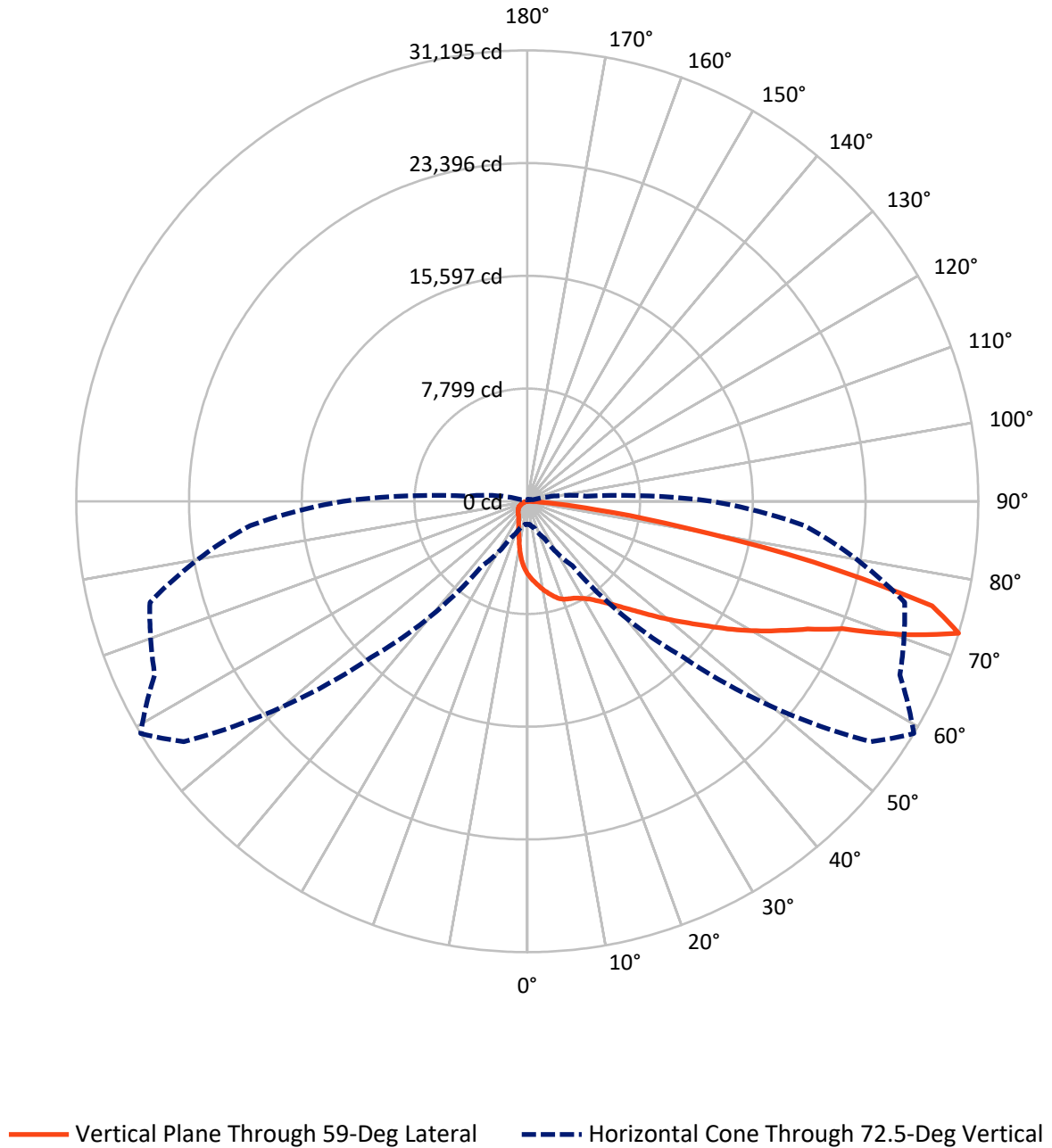
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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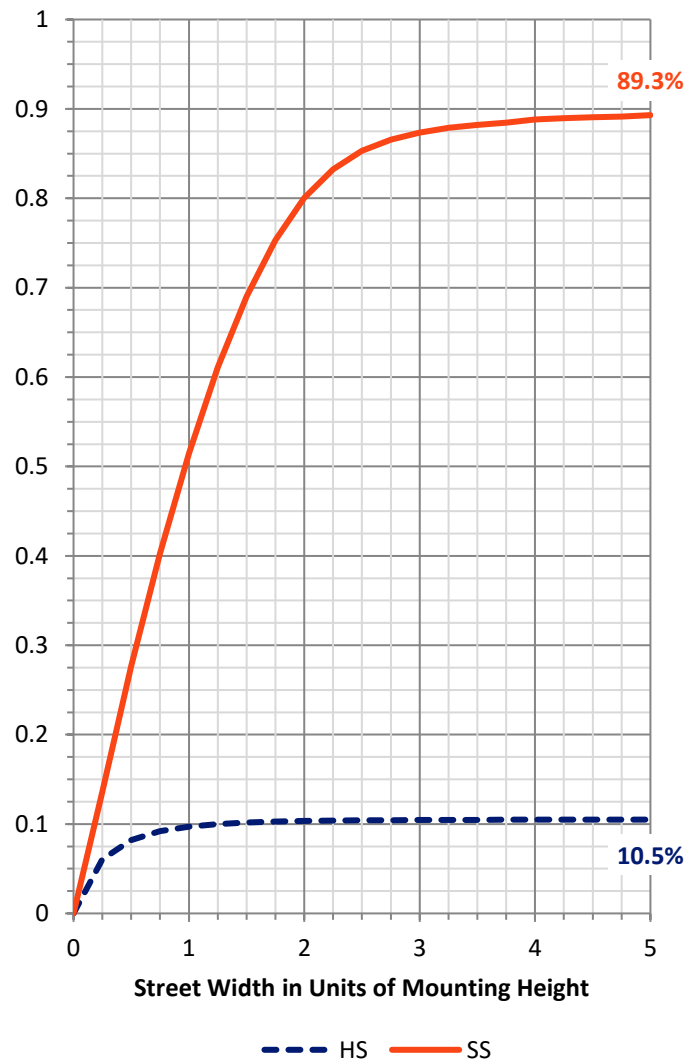
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3603.7   | 0.0    | 3603.7  |
|                    | % Fixture | 10.6     | 0.0    | 10.6    |
| <b>Street Side</b> | Lumens    | 30515.3  | 0.0    | 30515.3 |
|                    | % Fixture | 89.4     | 0.0    | 89.4    |
| <b>Total</b>       | Lumens    | 34119.0  | 0.0    | 34119.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 456.5   | 1.3       |
| 10°-20°   | 1212.5  | 3.6       |
| 20°-30°   | 1921.6  | 5.6       |
| 30°-40°   | 3083.8  | 9.0       |
| 40°-50°   | 4925.4  | 14.4      |
| 50°-60°   | 7131.3  | 20.9      |
| 60°-70°   | 8463.1  | 24.8      |
| 70°-80°   | 6282.6  | 18.4      |
| 80°-90°   | 642.3   | 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°    | 34119.0 | 100.0     |
| 0°-180°   | 34119.0 | 100.0     |

**Coefficient of Utilization**



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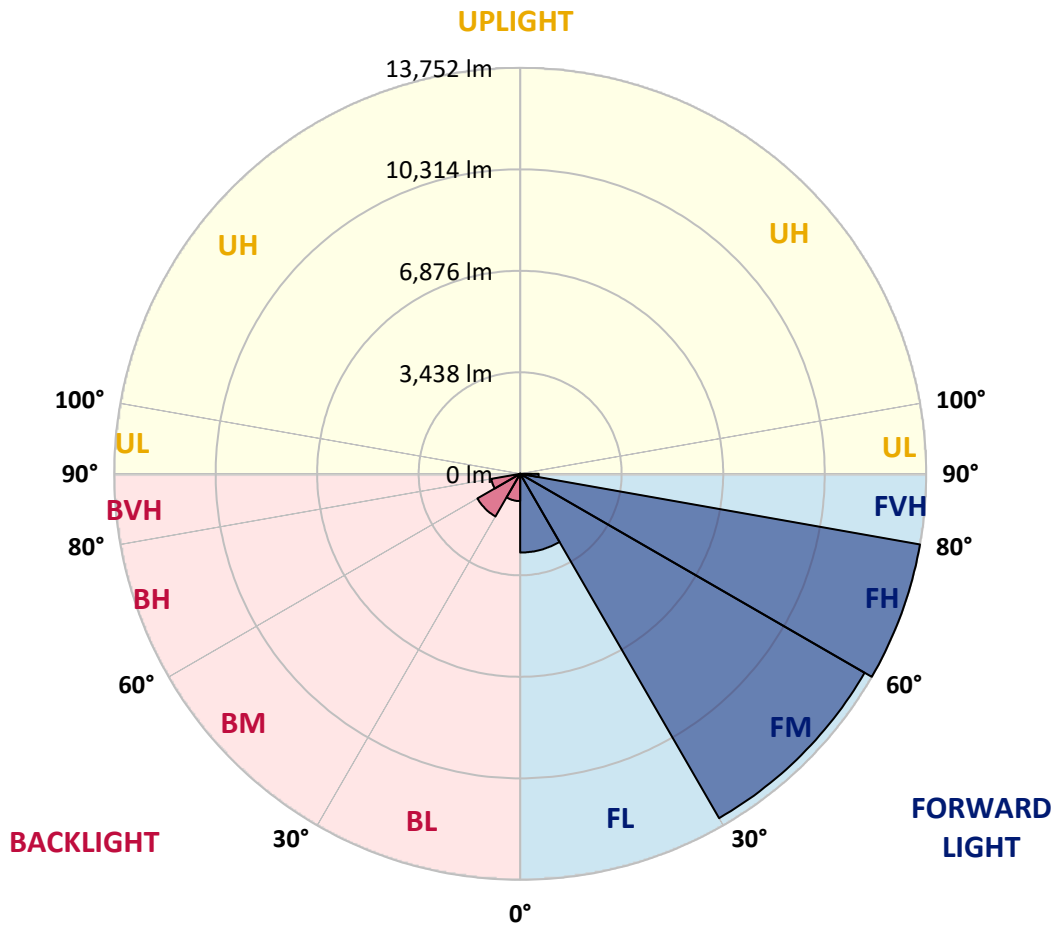
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2667.4  | 7.8       |                         |      |         |
| FM (30°-60°)   | 13469.7 | 39.5      |                         |      |         |
| FH (60°-80°)   | 13751.9 | 40.3      |                         |      | G5      |
| FVH (80°-90°)  | 626.4   | 1.8       |                         |      | G4/750  |
| BL (0°-30°)    | 923.2   | 2.7       | B2/1000                 |      |         |
| BM (30°-60°)   | 1670.8  | 4.9       | B2/2500                 |      |         |
| BH (60°-80°)   | 993.8   | 2.9       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 16.0    | 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-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5045.4  | 5045.4  | 5045.4  | 5045.4  | 5045.4  | 5045.4  | 5045.4  | 5045.4  | 5045.4  | 5045.4  |
| 2.5°  | 5597.8  | 5566.6  | 5571.1  | 5517.6  | 5479.8  | 5439.7  | 5361.7  | 5350.6  | 5294.9  | 5196.9  |
| 5°    | 6085.7  | 6065.6  | 6047.8  | 5987.6  | 5909.7  | 5811.7  | 5680.2  | 5633.5  | 5531.0  | 5361.7  |
| 7.5°  | 6442.1  | 6417.6  | 6426.5  | 6366.3  | 6303.9  | 6194.8  | 6014.4  | 5927.5  | 5791.6  | 5533.2  |
| 10°   | 6511.1  | 6497.7  | 6555.7  | 6577.9  | 6577.9  | 6508.9  | 6332.9  | 6246.0  | 6047.8  | 5718.1  |
| 12.5° | 6123.5  | 6125.7  | 6270.5  | 6444.3  | 6671.5  | 6736.1  | 6618.0  | 6524.5  | 6328.5  | 5914.1  |
| 15°   | 5671.3  | 5673.6  | 5813.9  | 6036.6  | 6408.6  | 6780.6  | 6874.2  | 6814.1  | 6611.4  | 6125.7  |
| 17.5° | 5399.6  | 5388.4  | 5482.0  | 5664.6  | 6054.5  | 6577.9  | 7030.1  | 7070.2  | 6905.4  | 6359.6  |
| 20°   | 5361.7  | 5341.7  | 5390.7  | 5482.0  | 5760.4  | 6324.0  | 7047.9  | 7237.3  | 7208.3  | 6624.7  |
| 22.5° | 5593.4  | 5562.2  | 5535.4  | 5539.9  | 5658.0  | 6112.4  | 7003.4  | 7330.8  | 7520.2  | 6943.3  |
| 25°   | 6052.2  | 6003.2  | 5916.4  | 5805.0  | 5780.5  | 6067.8  | 6972.2  | 7433.3  | 7809.8  | 7350.9  |
| 27.5° | 6613.6  | 6544.5  | 6377.5  | 6210.4  | 6067.8  | 6192.6  | 7036.8  | 7595.9  | 8137.2  | 7825.4  |
| 30°   | 7230.6  | 7146.0  | 6978.9  | 6662.6  | 6435.4  | 6471.0  | 7190.5  | 7809.8  | 8556.0  | 8362.2  |
| 32.5° | 8137.2  | 7941.2  | 7649.4  | 7166.0  | 6865.3  | 6771.7  | 7422.2  | 8081.5  | 9075.0  | 9077.2  |
| 35°   | 8914.6  | 8805.5  | 8511.4  | 7910.0  | 7293.0  | 7170.5  | 7727.4  | 8464.7  | 9794.5  | 10023.9 |
| 37.5° | 9424.7  | 9275.5  | 9017.1  | 8564.9  | 7956.8  | 7580.3  | 8135.0  | 8934.7  | 10556.3 | 11102.1 |
| 40°   | 9995.0  | 9848.0  | 9504.9  | 9079.5  | 8727.5  | 8284.2  | 8649.6  | 9476.0  | 11391.7 | 12209.2 |
| 42.5° | 10683.3 | 10491.7 | 10086.3 | 9627.4  | 9259.9  | 9210.9  | 9322.3  | 10150.9 | 12249.3 | 13412.0 |
| 45°   | 11491.9 | 11311.5 | 10845.9 | 10266.8 | 9943.8  | 9856.9  | 10168.7 | 10937.2 | 13204.9 | 14730.7 |
| 47.5° | 12249.3 | 12039.9 | 11538.7 | 11010.8 | 10652.1 | 10378.1 | 11068.7 | 11866.1 | 14287.5 | 16109.6 |
| 50°   | 12893.0 | 12679.2 | 12220.3 | 11656.7 | 11413.9 | 11055.3 | 11953.0 | 12901.9 | 15361.1 | 17510.7 |
| 52.5° | 13334.1 | 13144.7 | 12605.7 | 12222.5 | 12057.7 | 11877.3 | 12988.8 | 14000.1 | 16430.4 | 18793.8 |
| 55°   | 13233.8 | 13064.5 | 12590.1 | 12563.3 | 12552.2 | 12741.6 | 14227.3 | 15245.3 | 17519.6 | 20007.8 |
| 57.5° | 12915.3 | 12723.7 | 12131.2 | 12538.8 | 12933.1 | 13512.3 | 15568.3 | 16717.7 | 18713.6 | 21152.8 |
| 60°   | 11977.5 | 11910.7 | 11549.8 | 12492.1 | 13093.5 | 14267.4 | 17100.9 | 18196.8 | 20005.6 | 22159.6 |
| 62.5° | 9992.8  | 10050.7 | 10048.5 | 12590.1 | 13383.1 | 15127.3 | 18493.1 | 19693.7 | 21268.6 | 23128.6 |
| 65°   | 7482.3  | 7682.8  | 7939.0  | 11708.0 | 13770.7 | 16662.0 | 20157.0 | 21317.6 | 22551.7 | 24255.7 |
| 67.5° | 5027.6  | 5188.0  | 5361.7  | 9605.2  | 12616.8 | 18274.8 | 22921.4 | 23542.9 | 24088.7 | 25505.4 |
| 70°   | 2878.0  | 2929.2  | 3172.0  | 5998.8  | 9725.5  | 17829.3 | 27423.3 | 27648.3 | 26380.8 | 27044.6 |
| 72.5° | 1612.7  | 1594.9  | 1915.7  | 2846.8  | 5435.2  | 15267.6 | 29000.4 | 31194.5 | 28432.4 | 27020.1 |
| 75°   | 1078.1  | 1080.4  | 1318.7  | 1795.4  | 2118.4  | 10687.8 | 24990.8 | 28924.7 | 27202.8 | 23959.5 |
| 77.5° | 735.1   | 759.6   | 969.0   | 1387.8  | 980.1   | 5214.7  | 16532.8 | 20261.7 | 22023.7 | 18502.0 |
| 80°   | 318.5   | 320.8   | 639.3   | 995.7   | 661.6   | 1659.5  | 8571.6  | 10854.8 | 13813.0 | 10389.3 |
| 82.5° | 164.8   | 187.1   | 407.6   | 643.8   | 416.6   | 581.4   | 4049.7  | 4742.4  | 5796.1  | 3049.5  |
| 85°   | 57.9    | 69.1    | 251.7   | 316.3   | 209.4   | 207.2   | 1410.0  | 1436.8  | 1227.4  | 458.9   |
| 87.5° | 0.0     | 11.1    | 98.0    | 78.0    | 26.7    | 24.5    | 167.1   | 140.3   | 111.4   | 64.6    |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5045.4  | 0°    | 5045.4  | 5045.4 | 5045.4 | 5045.4 | 5045.4 | 5045.4 | 5045.4 | 5045.4 | 5045.4 | 5045.4 |
| 5096.6  | 2.5°  | 5049.8  | 4989.7 | 4891.7 | 4771.4 | 4631.1 | 4555.3 | 4446.2 | 4379.4 | 4319.2 | 4321.4 |
| 5165.7  | 5°    | 5056.5  | 4956.3 | 4706.8 | 4441.7 | 4147.7 | 3931.6 | 3691.0 | 3521.7 | 3392.5 | 3361.4 |
| 5237.0  | 7.5°  | 5076.6  | 4907.3 | 4499.6 | 4058.6 | 3568.5 | 3205.4 | 2873.5 | 2664.1 | 2546.1 | 2514.9 |
| 5310.5  | 10°   | 5103.3  | 4853.8 | 4265.7 | 3590.8 | 2982.7 | 2546.1 | 2269.9 | 2136.2 | 2082.8 | 2042.7 |
| 5404.0  | 12.5° | 5125.6  | 4798.1 | 3971.7 | 3107.4 | 2461.4 | 2120.6 | 1911.2 | 1799.9 | 1753.1 | 1724.1 |
| 5513.2  | 15°   | 5163.4  | 4724.6 | 3653.2 | 2657.5 | 2109.5 | 1831.0 | 1632.8 | 1550.4 | 1537.0 | 1541.5 |
| 5633.5  | 17.5° | 5201.3  | 4653.3 | 3296.8 | 2305.5 | 1851.1 | 1577.1 | 1456.8 | 1443.4 | 1461.3 | 1479.1 |
| 5771.6  | 20°   | 5243.6  | 4550.9 | 2935.9 | 2040.4 | 1612.7 | 1401.1 | 1369.9 | 1378.8 | 1387.8 | 1418.9 |
| 5960.9  | 22.5° | 5306.0  | 4421.7 | 2619.6 | 1815.4 | 1414.5 | 1316.5 | 1300.9 | 1307.6 | 1314.3 | 1345.4 |
| 6210.4  | 25°   | 5395.1  | 4283.6 | 2363.4 | 1608.3 | 1289.7 | 1247.4 | 1231.8 | 1231.8 | 1240.7 | 1269.7 |
| 6500.0  | 27.5° | 5488.7  | 4087.5 | 2156.3 | 1416.7 | 1216.2 | 1171.7 | 1145.0 | 1145.0 | 1156.1 | 1189.5 |
| 6863.1  | 30°   | 5593.4  | 3909.3 | 1993.7 | 1274.2 | 1153.9 | 1096.0 | 1060.3 | 1051.4 | 1064.8 | 1107.1 |
| 7388.8  | 32.5° | 5782.7  | 3793.5 | 1877.8 | 1207.3 | 1098.2 | 1026.9 | 977.9  | 953.4  | 966.8  | 1015.8 |
| 8123.9  | 35°   | 6070.1  | 3766.8 | 1797.6 | 1173.9 | 1044.7 | 964.5  | 895.5  | 857.6  | 868.7  | 920.0  |
| 9030.5  | 37.5° | 6406.4  | 3822.5 | 1719.7 | 1129.4 | 993.5  | 904.4  | 813.1  | 764.0  | 781.9  | 828.6  |
| 10066.3 | 40°   | 6889.8  | 4054.1 | 1659.5 | 1096.0 | 942.3  | 833.1  | 730.6  | 681.6  | 710.6  | 750.7  |
| 11144.4 | 42.5° | 7473.4  | 4466.2 | 1643.9 | 1064.8 | 879.9  | 757.4  | 654.9  | 619.3  | 641.5  | 679.4  |
| 12233.7 | 45°   | 8197.4  | 4991.9 | 1715.2 | 1024.7 | 810.8  | 683.9  | 594.8  | 574.7  | 581.4  | 619.3  |
| 13262.8 | 47.5° | 8974.8  | 5531.0 | 1911.2 | 989.0  | 750.7  | 623.7  | 548.0  | 530.2  | 525.7  | 561.3  |
| 14202.8 | 50°   | 9761.1  | 6009.9 | 2142.9 | 962.3  | 708.4  | 574.7  | 512.3  | 490.1  | 478.9  | 501.2  |
| 15131.7 | 52.5° | 10538.5 | 6390.8 | 2294.4 | 917.7  | 666.0  | 525.7  | 481.1  | 447.7  | 427.7  | 438.8  |
| 16056.1 | 55°   | 11327.1 | 6725.0 | 2303.3 | 850.9  | 625.9  | 494.5  | 450.0  | 412.1  | 387.6  | 387.6  |
| 16947.2 | 57.5° | 12064.4 | 7019.0 | 2171.9 | 761.8  | 570.3  | 465.6  | 407.6  | 376.5  | 349.7  | 340.8  |
| 17737.9 | 60°   | 12717.0 | 7237.3 | 1953.6 | 661.6  | 521.2  | 427.7  | 365.3  | 340.8  | 307.4  | 289.6  |
| 18441.8 | 62.5° | 13298.4 | 7344.2 | 1655.1 | 559.1  | 461.1  | 383.1  | 325.2  | 298.5  | 253.9  | 231.7  |
| 19156.9 | 65°   | 13790.7 | 7235.1 | 1343.2 | 463.3  | 409.9  | 334.1  | 278.4  | 251.7  | 202.7  | 176.0  |
| 19961.0 | 67.5° | 14278.6 | 6736.1 | 1015.8 | 389.8  | 356.4  | 280.7  | 229.4  | 204.9  | 169.3  | 147.0  |
| 20546.9 | 70°   | 14340.9 | 5686.9 | 710.6  | 327.4  | 296.3  | 216.1  | 184.9  | 169.3  | 138.1  | 118.1  |
| 19239.3 | 72.5° | 12766.1 | 4092.0 | 432.1  | 267.3  | 231.7  | 153.7  | 147.0  | 133.7  | 102.5  | 89.1   |
| 15719.8 | 75°   | 10204.4 | 2508.2 | 253.9  | 200.5  | 153.7  | 109.1  | 109.1  | 95.8   | 69.1   | 57.9   |
| 10852.6 | 77.5° | 7052.4  | 1312.0 | 149.2  | 129.2  | 91.3   | 64.6   | 71.3   | 57.9   | 33.4   | 26.7   |
| 4299.2  | 80°   | 2824.5  | 499.0  | 80.2   | 60.1   | 42.3   | 29.0   | 24.5   | 13.4   | 6.7    | 4.5    |
| 882.1   | 82.5° | 563.6   | 131.4  | 26.7   | 15.6   | 15.6   | 6.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 242.8   | 85°   | 144.8   | 29.0   | 6.7    | 4.5    | 4.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80.2    | 87.5° | 44.6    | 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> |
|-------------|
| 5045.4      |
| 4370.4      |
| 3408.1      |
| 2546.1      |
| 2067.2      |
| 1739.7      |
| 1548.1      |
| 1485.8      |
| 1427.9      |
| 1354.3      |
| 1280.8      |
| 1202.9      |
| 1118.2      |
| 1029.1      |
| 935.6       |
| 842.0       |
| 757.4       |
| 686.1       |
| 637.1       |
| 583.6       |
| 510.1       |
| 447.7       |
| 392.0       |
| 343.0       |
| 285.1       |
| 229.4       |
| 176.0       |
| 147.0       |
| 115.8       |
| 86.9        |
| 57.9        |
| 26.7        |
| 6.7         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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