

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: P456548

Luminaire Tested: **GALN-SA7D-750-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456548  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7D-750-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53784 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

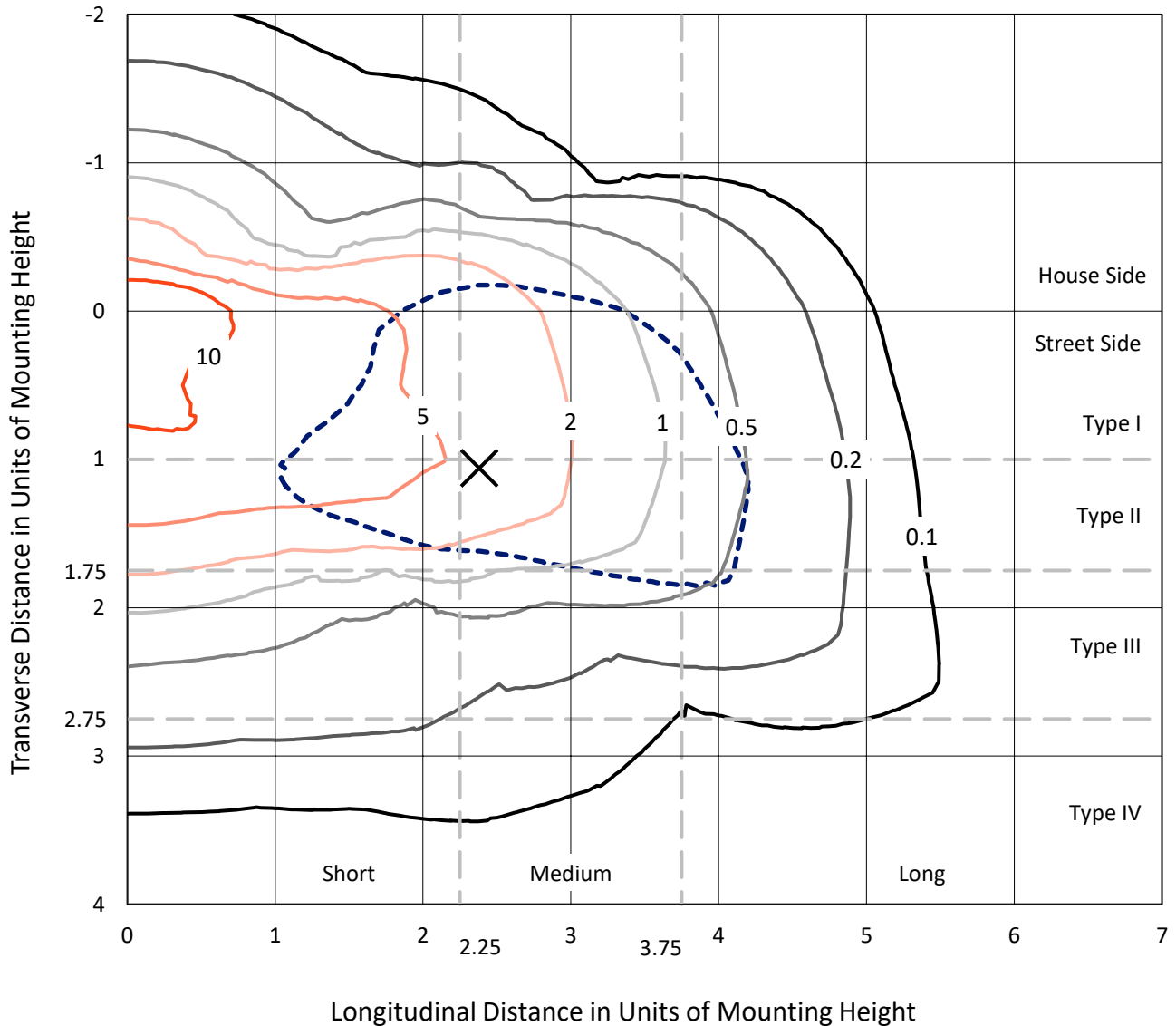
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

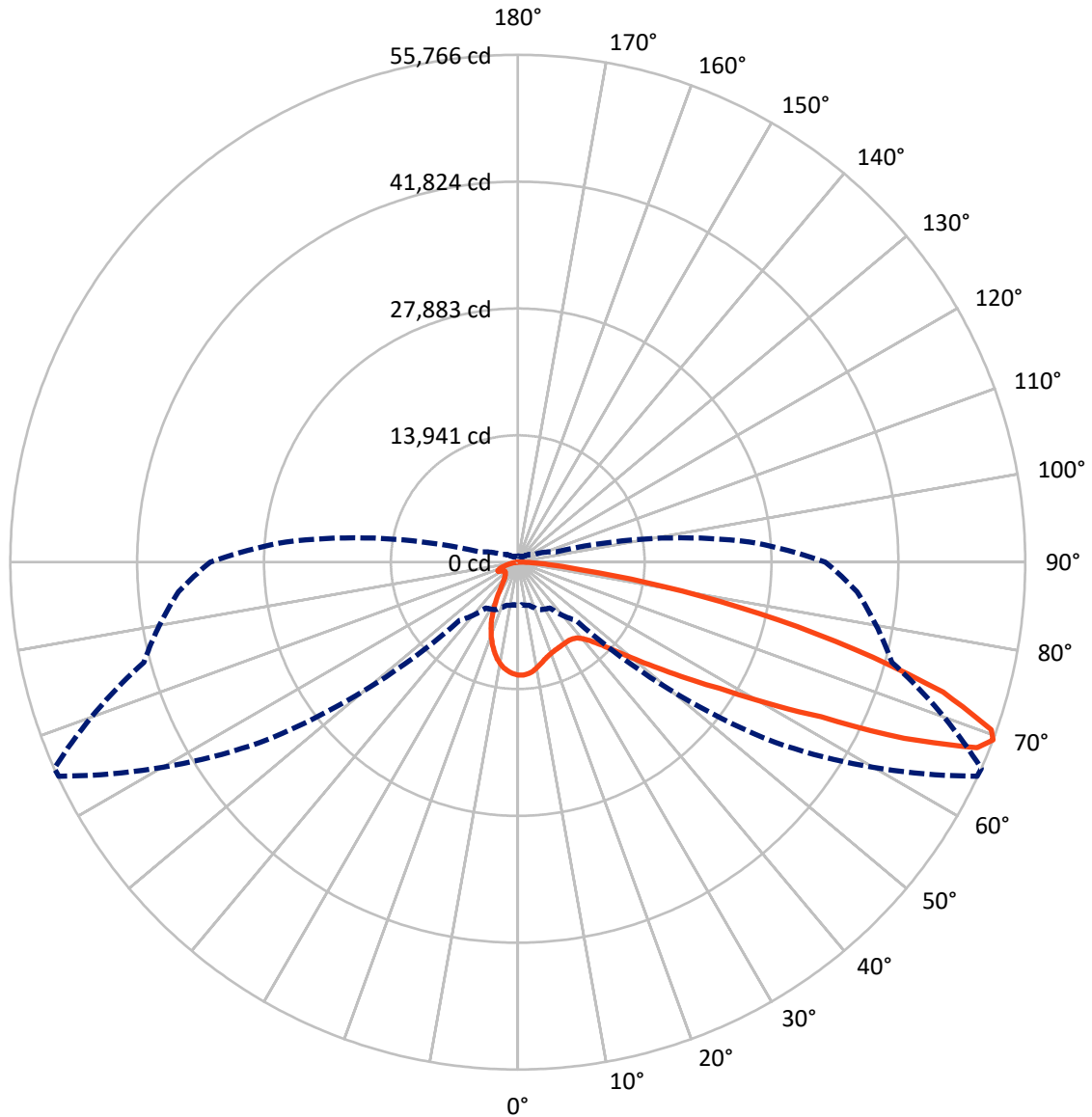
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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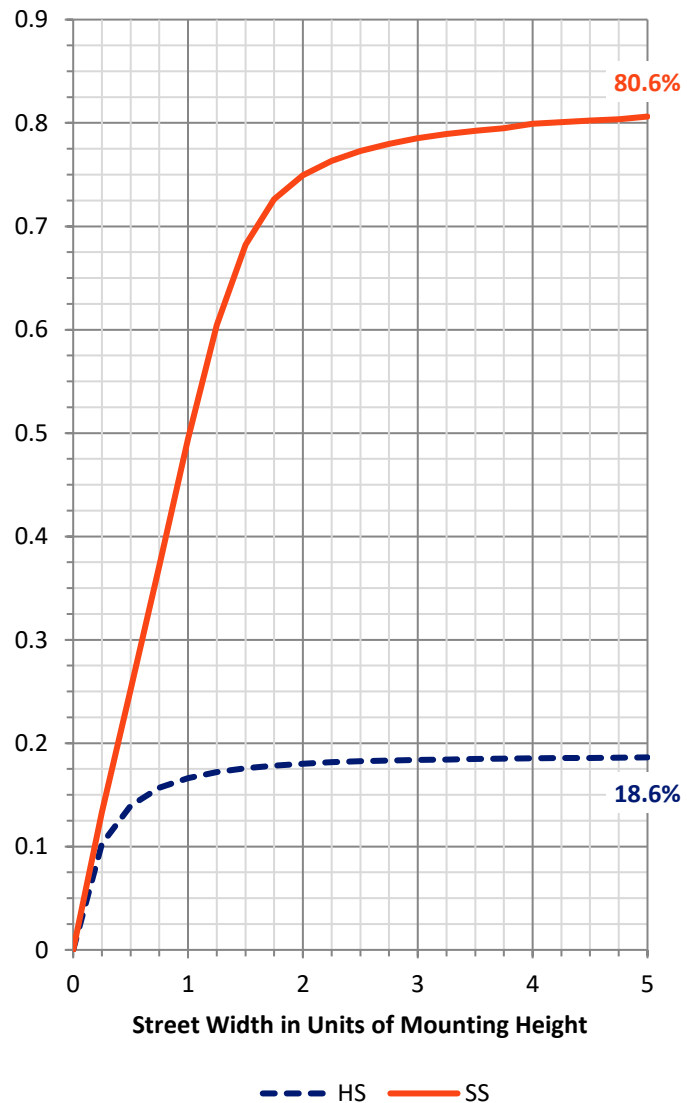
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10114.7  | 0.0    | 10114.7 |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 43669.2  | 0.0    | 43669.2 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 53784.0  | 0.0    | 53784.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1078.6  | 2.0       |
| 10°-20°   | 2558.3  | 4.8       |
| 20°-30°   | 3482.7  | 6.5       |
| 30°-40°   | 4680.0  | 8.7       |
| 40°-50°   | 6988.1  | 13.0      |
| 50°-60°   | 11115.7 | 20.7      |
| 60°-70°   | 13671.7 | 25.4      |
| 70°-80°   | 8895.4  | 16.5      |
| 80°-90°   | 1313.6  | 2.4       |
| 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°    | 53784.0 | 100.0     |
| 0°-180°   | 53784.0 | 100.0     |



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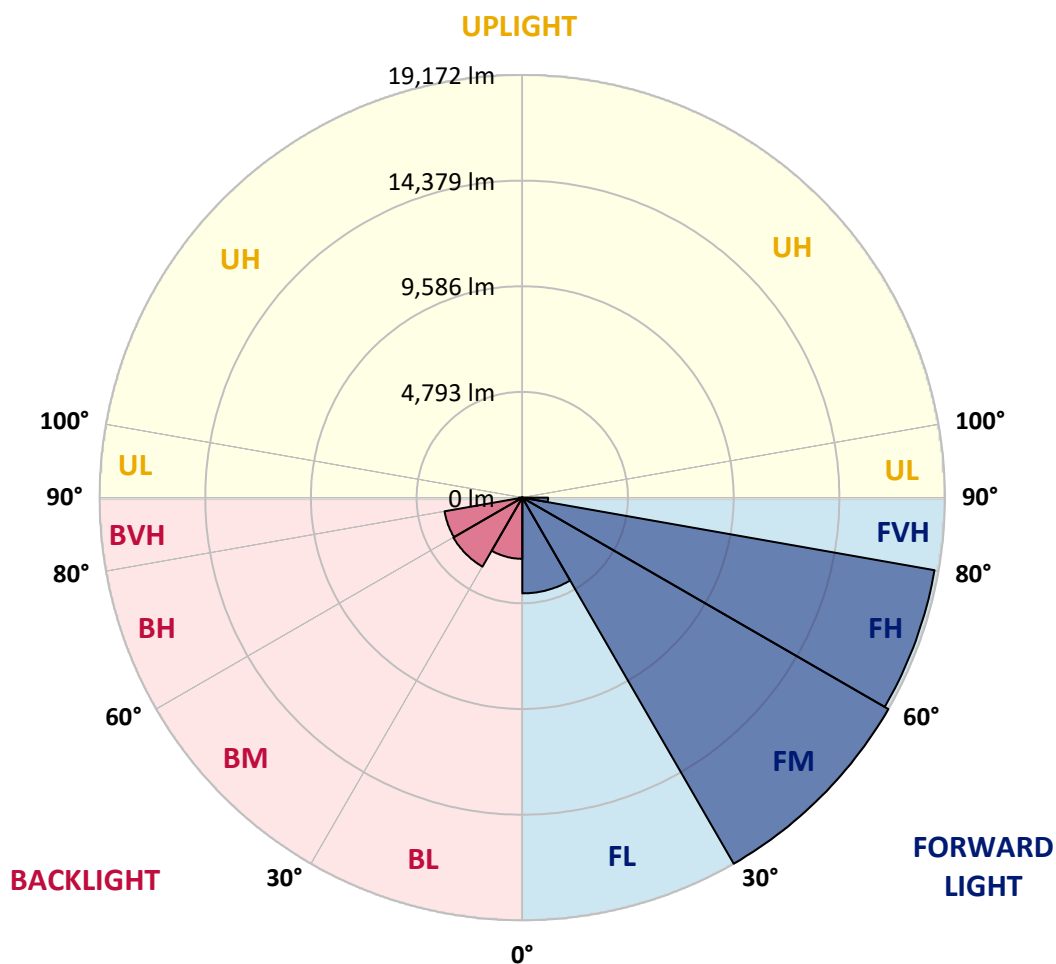
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4343.0  | 8.1       |                         |      |         |
| FM   | (30°-60°)   | 19172.4 | 35.6      |                         |      |         |
| FH   | (60°-80°)   | 18986.0 | 35.3      |                         |      | G5      |
| FVH  | (80°-90°)   | 1167.9  | 2.2       |                         |      | G5      |
| BL   | (0°-30°)    | 2776.5  | 5.2       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 3611.4  | 6.7       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 3581.1  | 6.7       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 145.7   | 0.3       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12420.2 | 12420.2 | 12420.2 | 12420.2 | 12420.2 | 12420.2 | 12420.2 | 12420.2 | 12420.2 | 12420.2 | 12420.2 |
| 2.5°  | 11985.4 | 12033.0 | 12086.6 | 12146.2 | 12259.4 | 12321.9 | 12366.6 | 12417.2 | 12423.2 | 12450.0 | 12429.2 |
| 5°    | 11100.8 | 11157.3 | 11237.8 | 11350.9 | 11520.7 | 11785.8 | 12059.8 | 12283.2 | 12310.0 | 12435.1 | 12470.9 |
| 7.5°  | 10362.1 | 10394.9 | 10460.4 | 10642.1 | 10883.3 | 11178.2 | 11577.3 | 12030.0 | 12095.6 | 12393.4 | 12497.7 |
| 10°   | 9760.4  | 9793.2  | 9870.6  | 10058.3 | 10296.6 | 10665.9 | 11103.7 | 11699.4 | 11753.0 | 12265.3 | 12503.6 |
| 12.5° | 9310.7  | 9340.5  | 9423.9  | 9608.5  | 9882.6  | 10228.1 | 10710.6 | 11342.0 | 11419.5 | 12095.6 | 12447.0 |
| 15°   | 8968.2  | 9024.8  | 9093.3  | 9245.2  | 9534.1  | 9867.7  | 10335.3 | 11014.4 | 11076.9 | 11916.9 | 12408.3 |
| 17.5° | 8822.2  | 8849.0  | 8896.7  | 9036.7  | 9248.1  | 9575.8  | 10046.4 | 10758.2 | 10832.7 | 11791.8 | 12399.4 |
| 20°   | 8828.2  | 8855.0  | 8863.9  | 8941.4  | 9093.3  | 9376.2  | 9840.9  | 10555.7 | 10645.1 | 11681.6 | 12414.3 |
| 22.5° | 9030.7  | 9033.7  | 9000.9  | 8974.1  | 9033.7  | 9269.0  | 9694.9  | 10403.8 | 10508.0 | 11633.9 | 12426.2 |
| 25°   | 9343.5  | 9397.1  | 9349.4  | 9224.3  | 9114.1  | 9227.3  | 9638.3  | 10320.4 | 10418.7 | 11565.4 | 12411.3 |
| 27.5° | 9849.8  | 9858.7  | 9820.0  | 9650.2  | 9364.3  | 9280.9  | 9614.5  | 10257.9 | 10341.2 | 11514.8 | 12336.8 |
| 30°   | 10528.9 | 10502.1 | 10466.3 | 10278.7 | 9829.0  | 9486.4  | 9665.1  | 10201.3 | 10287.6 | 11440.3 | 12247.5 |
| 32.5° | 11216.9 | 11300.3 | 11267.6 | 11047.1 | 10463.4 | 9885.5  | 9829.0  | 10195.3 | 10266.8 | 11383.7 | 12149.2 |
| 35°   | 11946.6 | 11985.4 | 12140.2 | 12027.1 | 11428.4 | 10531.9 | 10135.7 | 10287.6 | 10344.2 | 11386.7 | 12080.7 |
| 37.5° | 12518.5 | 12622.8 | 12986.1 | 13084.4 | 12521.5 | 11386.7 | 10633.1 | 10549.7 | 10573.6 | 11532.6 | 12107.5 |
| 40°   | 13209.5 | 13388.2 | 13855.8 | 14257.9 | 13888.6 | 12497.7 | 11479.0 | 11035.2 | 11065.0 | 11884.1 | 12283.2 |
| 42.5° | 14085.2 | 14210.3 | 14838.7 | 15383.8 | 15324.2 | 13966.0 | 12503.6 | 11830.5 | 11845.4 | 12584.0 | 12774.7 |
| 45°   | 15109.8 | 15288.5 | 15994.4 | 16813.5 | 16953.5 | 15628.0 | 13983.9 | 13033.8 | 13024.8 | 13671.2 | 13692.0 |
| 47.5° | 16420.3 | 16530.5 | 17230.4 | 18124.0 | 18689.9 | 17715.9 | 15779.9 | 14761.3 | 14666.0 | 15255.7 | 15086.0 |
| 50°   | 17626.6 | 17799.3 | 18329.5 | 19306.4 | 20715.3 | 20161.3 | 18141.9 | 17001.1 | 16777.7 | 17328.7 | 17042.8 |
| 52.5° | 18132.9 | 18314.6 | 18761.4 | 19973.6 | 22451.7 | 23324.4 | 21141.2 | 19672.8 | 19300.5 | 19723.4 | 19619.2 |
| 55°   | 17254.3 | 17489.6 | 17906.6 | 19380.9 | 23214.2 | 26973.0 | 25185.9 | 22761.5 | 22490.4 | 22308.7 | 22338.5 |
| 57.5° | 14892.4 | 15115.7 | 15678.7 | 17304.9 | 22302.8 | 29620.9 | 30961.2 | 26731.8 | 26151.0 | 25314.0 | 25457.0 |
| 60°   | 11336.1 | 11476.0 | 11767.9 | 13569.9 | 19601.3 | 30308.9 | 37519.8 | 31750.5 | 31381.2 | 28307.4 | 28408.6 |
| 62.5° | 8050.8  | 8208.7  | 8411.2  | 9310.7  | 14350.3 | 28369.9 | 42654.7 | 38758.8 | 37439.4 | 31408.0 | 31309.7 |
| 65°   | 6537.7  | 6430.5  | 6674.8  | 7094.7  | 8420.1  | 21987.1 | 43810.3 | 48486.5 | 46669.6 | 35491.4 | 34127.3 |
| 67.5° | 5376.1  | 5263.0  | 5504.2  | 6251.8  | 6403.7  | 12762.7 | 39646.4 | 54800.9 | 54437.5 | 39932.3 | 36989.6 |
| 69°   | 4759.6  | 4700.0  | 4911.5  | 5763.3  | 6147.6  | 9063.5  | 34538.3 | 55679.5 | 55765.9 | 42550.4 | 37430.4 |
| 70°   | 4289.0  | 4312.8  | 4518.3  | 5516.1  | 6031.4  | 7473.0  | 29519.6 | 54467.3 | 55200.0 | 43858.0 | 36953.9 |
| 72.5° | 3157.2  | 3207.8  | 3493.7  | 4569.0  | 5921.2  | 6341.2  | 17567.0 | 47575.1 | 48870.7 | 43935.4 | 33805.6 |
| 75°   | 2207.0  | 2183.2  | 2436.4  | 3440.1  | 5593.6  | 6284.6  | 10317.4 | 36793.0 | 38261.4 | 37975.5 | 28405.7 |
| 77.5° | 1444.6  | 1483.3  | 1685.8  | 2430.4  | 4706.0  | 6236.9  | 6725.4  | 26103.3 | 27056.4 | 25397.4 | 16801.5 |
| 80°   | 1018.6  | 1015.7  | 1128.8  | 1659.0  | 3490.8  | 5992.7  | 5507.2  | 16453.1 | 16211.8 | 9980.9  | 4983.0  |
| 82.5° | 583.8   | 625.5   | 756.5   | 1167.6  | 2335.1  | 5274.9  | 5066.4  | 7869.1  | 7184.1  | 2844.4  | 1682.8  |
| 85°   | 324.7   | 339.5   | 449.7   | 705.9   | 1364.1  | 3973.3  | 4423.0  | 3580.1  | 3377.6  | 1188.4  | 723.8   |
| 87.5° | 104.2   | 113.2   | 187.6   | 357.4   | 619.5   | 1876.4  | 2504.9  | 1653.1  | 1525.0  | 428.9   | 291.9   |
| 90°   | 0.0     | 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):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12420.2 | 12420.2 | 12420.2 | 12420.2 | 12420.2 | 12420.2 | 12420.2 | 12420.2 | 12420.2 | 12420.2 | 12420.2 |
| 2.5°  | 12438.1 | 12473.8 | 12378.5 | 12286.2 | 12202.8 | 12086.6 | 11982.4 | 11896.0 | 11836.4 | 11827.5 | 11797.7 |
| 5°    | 12479.8 | 12482.8 | 12301.1 | 12056.8 | 11818.6 | 11556.5 | 11285.4 | 11091.8 | 10910.1 | 10808.9 | 10758.2 |
| 7.5°  | 12509.6 | 12482.8 | 12155.1 | 11759.0 | 11300.3 | 10823.8 | 10347.2 | 9966.0  | 9671.1  | 9554.9  | 9599.6  |
| 10°   | 12497.7 | 12414.3 | 11934.7 | 11300.3 | 10633.1 | 9921.3  | 9236.2  | 8700.1  | 8208.7  | 7955.5  | 7961.5  |
| 12.5° | 12432.1 | 12295.1 | 11607.1 | 10785.0 | 9805.1  | 8852.0  | 7803.6  | 7079.8  | 6510.9  | 6174.4  | 6070.1  |
| 15°   | 12375.5 | 12137.3 | 11222.9 | 10085.1 | 8866.9  | 7505.7  | 6228.0  | 5334.4  | 4857.9  | 4592.8  | 4589.8  |
| 17.5° | 12316.0 | 11985.4 | 10802.9 | 9343.5  | 7788.7  | 6037.4  | 4697.0  | 4015.0  | 3791.6  | 3818.4  | 3773.7  |
| 20°   | 12253.4 | 11806.7 | 10365.1 | 8518.4  | 6475.2  | 4503.4  | 3517.6  | 3240.6  | 3303.1  | 3425.2  | 3443.1  |
| 22.5° | 12181.9 | 11616.0 | 9894.5  | 7610.0  | 5093.2  | 3389.5  | 2853.4  | 2811.7  | 2972.5  | 3163.1  | 3189.9  |
| 25°   | 12071.7 | 11377.8 | 9301.8  | 6659.9  | 3928.6  | 2731.3  | 2498.9  | 2528.7  | 2686.6  | 2847.4  | 2865.3  |
| 27.5° | 11916.9 | 11082.9 | 8703.1  | 5474.4  | 2951.7  | 2344.1  | 2284.5  | 2323.2  | 2400.6  | 2498.9  | 2522.8  |
| 30°   | 11708.4 | 10749.3 | 8015.1  | 4449.8  | 2364.9  | 2150.5  | 2126.6  | 2147.5  | 2192.2  | 2233.9  | 2245.8  |
| 32.5° | 11499.9 | 10427.6 | 7321.1  | 3407.4  | 2108.8  | 2022.4  | 1998.6  | 1998.6  | 1998.6  | 2004.5  | 2007.5  |
| 35°   | 11306.3 | 10123.8 | 6576.5  | 2653.8  | 1974.7  | 1921.1  | 1888.3  | 1852.6  | 1846.7  | 1825.8  | 1825.8  |
| 37.5° | 11199.0 | 9846.8  | 5784.2  | 2221.9  | 1876.4  | 1837.7  | 1793.0  | 1733.5  | 1700.7  | 1703.7  | 1697.7  |
| 40°   | 11219.9 | 9665.1  | 5063.4  | 1977.7  | 1796.0  | 1754.3  | 1685.8  | 1617.3  | 1596.5  | 1596.5  | 1590.5  |
| 42.5° | 11455.2 | 9605.6  | 4372.4  | 1849.6  | 1718.6  | 1670.9  | 1584.5  | 1522.0  | 1510.1  | 1507.1  | 1513.1  |
| 45°   | 11997.3 | 9751.5  | 3752.9  | 1766.2  | 1653.1  | 1581.6  | 1495.2  | 1438.6  | 1426.7  | 1426.7  | 1423.7  |
| 47.5° | 13054.6 | 10225.1 | 3309.1  | 1712.6  | 1605.4  | 1513.1  | 1423.7  | 1367.1  | 1346.3  | 1340.3  | 1340.3  |
| 50°   | 14698.7 | 11252.7 | 2978.5  | 1665.0  | 1545.8  | 1450.5  | 1358.2  | 1292.7  | 1259.9  | 1256.9  | 1253.9  |
| 52.5° | 16983.2 | 12855.1 | 2850.4  | 1629.2  | 1480.3  | 1385.0  | 1283.7  | 1221.2  | 1179.5  | 1170.5  | 1164.6  |
| 55°   | 19654.9 | 15091.9 | 3026.1  | 1602.4  | 1411.8  | 1310.5  | 1206.3  | 1140.8  | 1102.0  | 1084.2  | 1081.2  |
| 57.5° | 22749.6 | 17778.5 | 3693.3  | 1566.7  | 1349.2  | 1230.1  | 1128.8  | 1063.3  | 1021.6  | 1000.8  | 994.8   |
| 60°   | 25528.5 | 20539.5 | 4857.9  | 1545.8  | 1295.6  | 1143.7  | 1039.5  | 979.9   | 941.2   | 920.3   | 917.4   |
| 62.5° | 28581.4 | 23172.5 | 6248.8  | 1602.4  | 1271.8  | 1060.3  | 956.1   | 902.5   | 869.7   | 848.9   | 848.9   |
| 65°   | 31842.8 | 25808.4 | 7169.2  | 1793.0  | 1307.5  | 994.8   | 866.7   | 822.1   | 792.3   | 777.4   | 774.4   |
| 67.5° | 34040.9 | 26719.9 | 5906.3  | 1989.6  | 1396.9  | 923.3   | 780.4   | 744.6   | 726.7   | 711.9   | 711.9   |
| 69°   | 33802.7 | 25567.2 | 4357.5  | 2040.3  | 1423.7  | 887.6   | 732.7   | 705.9   | 682.1   | 676.1   | 670.2   |
| 70°   | 33049.1 | 24253.7 | 3651.6  | 2007.5  | 1402.9  | 854.8   | 702.9   | 670.2   | 649.3   | 643.3   | 640.4   |
| 72.5° | 29436.2 | 21034.0 | 2719.3  | 1745.4  | 1194.4  | 741.6   | 622.5   | 592.7   | 574.8   | 565.9   | 565.9   |
| 75°   | 24456.2 | 17191.7 | 2123.6  | 1388.0  | 935.2   | 625.5   | 533.1   | 509.3   | 494.4   | 488.5   | 485.5   |
| 77.5° | 13706.9 | 9599.6  | 1525.0  | 1087.1  | 708.9   | 506.3   | 446.8   | 425.9   | 411.0   | 405.1   | 405.1   |
| 80°   | 3818.4  | 2743.2  | 896.5   | 717.8   | 482.5   | 384.2   | 354.4   | 339.5   | 318.7   | 303.8   | 312.7   |
| 82.5° | 1438.6  | 1188.4  | 512.3   | 431.9   | 306.8   | 256.1   | 247.2   | 235.3   | 226.4   | 205.5   | 205.5   |
| 85°   | 699.9   | 577.8   | 327.6   | 229.3   | 169.8   | 134.0   | 128.1   | 122.1   | 116.2   | 101.3   | 104.2   |
| 87.5° | 241.3   | 256.1   | 143.0   | 83.4    | 50.6    | 32.8    | 26.8    | 14.9    | 14.9    | 14.9    | 14.9    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)