

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: P459189

Luminaire Tested: **GALN-SA6D-735-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459189  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6D-735-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42356 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

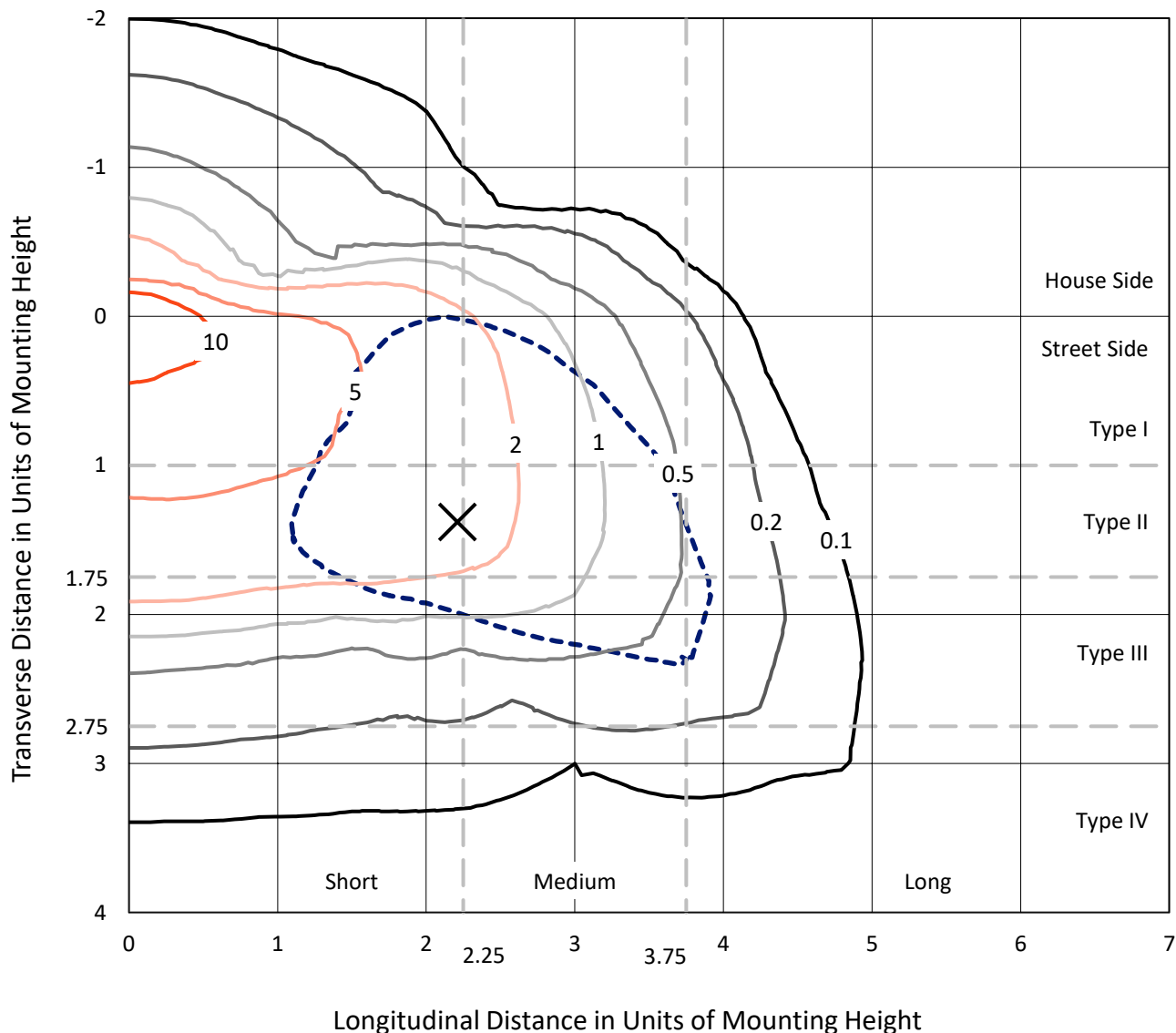
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

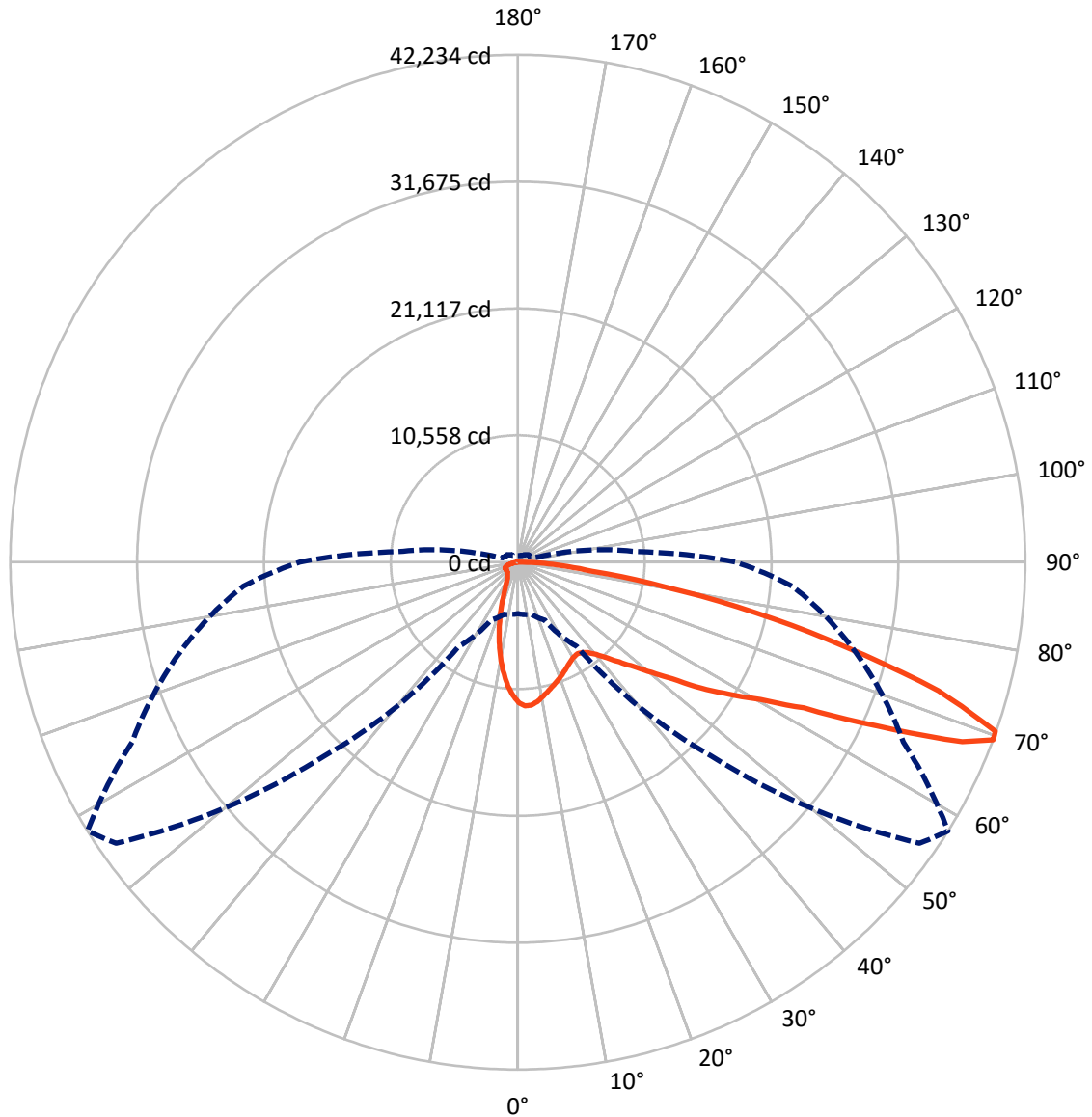
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6207.3   | 0.0    | 6207.3  |
|                    | % Fixture | 14.7     | 0.0    | 14.7    |
| <b>Street Side</b> | Lumens    | 36148.7  | 0.0    | 36148.7 |
|                    | % Fixture | 85.3     | 0.0    | 85.3    |
| <b>Total</b>       | Lumens    | 42356.0  | 0.0    | 42356.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 994.0   | 2.3       |
| 10°-20°   | 2182.7  | 5.2       |
| 20°-30°   | 2820.1  | 6.7       |
| 30°-40°   | 3662.7  | 8.6       |
| 40°-50°   | 5325.1  | 12.6      |
| 50°-60°   | 8497.0  | 20.1      |
| 60°-70°   | 11351.0 | 26.8      |
| 70°-80°   | 6543.4  | 15.4      |
| 80°-90°   | 980.1   | 2.3       |
| 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°    | 42356.0 | 100.0     |
| 0°-180°   | 42356.0 | 100.0     |

**Coefficient of Utilization**



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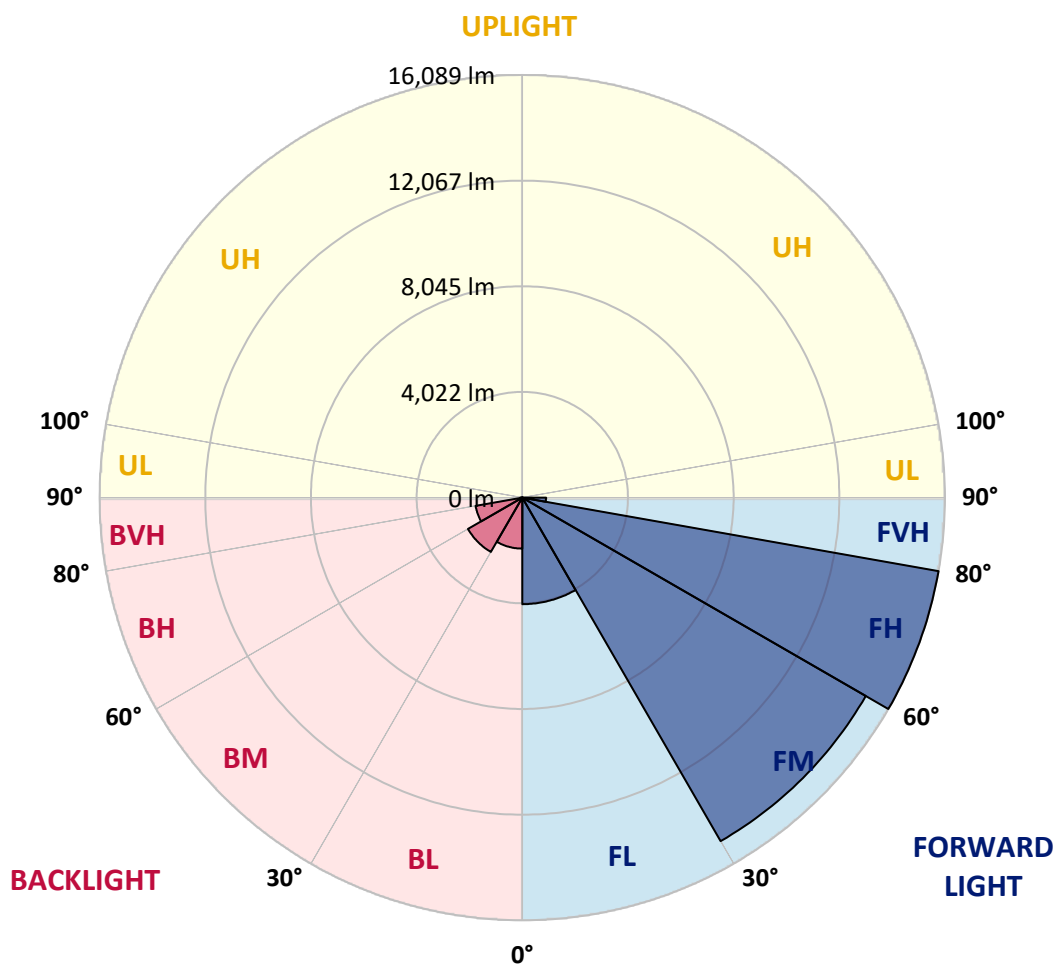
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4056.6  | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 15097.7 | 35.6      |                         |      |         |
| FH   | (60°-80°)   | 16089.4 | 38.0      |                         |      | G5      |
| FVH  | (80°-90°)   | 905.0   | 2.1       |                         |      | G5      |
| BL   | (0°-30°)    | 1940.1  | 4.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2387.1  | 5.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1805.0  | 4.3       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 75.1    | 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-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11704.7 | 11704.7 | 11704.7 | 11704.7 | 11704.7 | 11704.7 | 11704.7 | 11704.7 | 11704.7 | 11704.7 | 11704.7 |
| 2.5°  | 12139.4 | 12172.4 | 12163.0 | 12151.2 | 12132.3 | 12080.3 | 11995.3 | 11981.1 | 11926.8 | 11811.0 | 11666.9 |
| 5°    | 11952.8 | 11981.1 | 11983.5 | 12000.0 | 12023.6 | 12014.2 | 11952.8 | 11945.7 | 11865.3 | 11709.4 | 11468.5 |
| 7.5°  | 11312.6 | 11350.4 | 11433.1 | 11525.2 | 11607.9 | 11685.8 | 11704.7 | 11716.5 | 11666.9 | 11487.4 | 11166.1 |
| 10°   | 10592.1 | 10629.9 | 10667.7 | 10804.7 | 11007.9 | 11201.6 | 11362.2 | 11383.5 | 11395.3 | 11229.9 | 10837.8 |
| 12.5° | 9793.7  | 9871.6  | 9952.0  | 10155.1 | 10426.8 | 10731.5 | 11015.0 | 11059.8 | 11140.2 | 11015.0 | 10554.3 |
| 15°   | 9115.7  | 9196.1  | 9311.8  | 9493.7  | 9822.0  | 10261.4 | 10660.6 | 10733.9 | 10892.1 | 10828.3 | 10289.8 |
| 17.5° | 8645.7  | 8674.0  | 8754.3  | 8962.2  | 9316.5  | 9779.5  | 10313.4 | 10459.8 | 10712.6 | 10696.1 | 10063.0 |
| 20°   | 8274.8  | 8310.2  | 8359.8  | 8487.4  | 8855.9  | 9344.9  | 9989.8  | 10178.7 | 10521.3 | 10577.9 | 9838.6  |
| 22.5° | 8118.9  | 8144.9  | 8137.8  | 8206.3  | 8456.7  | 8948.0  | 9661.4  | 9885.8  | 10351.2 | 10497.6 | 9630.7  |
| 25°   | 8128.3  | 8152.0  | 8116.5  | 8100.0  | 8248.8  | 8598.4  | 9318.9  | 9604.7  | 10214.2 | 10443.3 | 9441.7  |
| 27.5° | 8286.6  | 8303.1  | 8237.0  | 8170.9  | 8182.7  | 8381.1  | 9035.4  | 9352.0  | 10098.4 | 10466.9 | 9283.5  |
| 30°   | 8499.2  | 8529.9  | 8487.4  | 8407.1  | 8319.7  | 8329.1  | 8853.5  | 9165.3  | 10044.1 | 10549.6 | 9207.9  |
| 32.5° | 8773.2  | 8801.6  | 8782.7  | 8718.9  | 8605.5  | 8480.3  | 8808.7  | 9096.8  | 10048.8 | 10717.3 | 9191.3  |
| 35°   | 9061.4  | 9118.1  | 9148.8  | 9144.1  | 9052.0  | 8834.6  | 8985.8  | 9224.4  | 10162.2 | 10998.4 | 9288.2  |
| 37.5° | 9387.4  | 9434.6  | 9566.9  | 9652.0  | 9566.9  | 9314.2  | 9385.0  | 9550.4  | 10412.6 | 11404.7 | 9500.8  |
| 40°   | 9703.9  | 9774.8  | 9968.5  | 10233.1 | 10200.0 | 9977.9  | 9994.5  | 10103.1 | 10854.3 | 12009.4 | 9916.5  |
| 42.5° | 10034.6 | 10119.7 | 10457.5 | 10849.6 | 10927.6 | 10755.1 | 10800.0 | 10896.8 | 11482.7 | 12848.0 | 10629.9 |
| 45°   | 10459.8 | 10561.4 | 10977.2 | 11466.1 | 11773.2 | 11666.9 | 11794.5 | 11841.7 | 12323.6 | 13939.4 | 11570.1 |
| 47.5° | 11007.9 | 11126.0 | 11638.6 | 12248.0 | 12682.7 | 12779.5 | 13001.6 | 12973.2 | 13365.3 | 15231.5 | 12789.0 |
| 50°   | 11931.5 | 11997.6 | 12481.9 | 13103.1 | 13700.8 | 14137.8 | 14378.7 | 14423.6 | 14657.5 | 16488.2 | 14152.0 |
| 52.5° | 13029.9 | 13089.0 | 13438.6 | 13981.9 | 14730.7 | 15656.7 | 16252.0 | 16105.5 | 16162.2 | 18018.9 | 15746.4 |
| 55°   | 14265.3 | 14364.6 | 14586.6 | 14948.0 | 15918.9 | 17281.9 | 18477.2 | 18512.6 | 17884.2 | 19483.5 | 17274.8 |
| 57.5° | 15222.0 | 15389.8 | 15770.1 | 16285.0 | 17515.7 | 19089.0 | 20695.3 | 20718.9 | 19915.7 | 21047.2 | 18961.4 |
| 60°   | 14740.2 | 14938.6 | 15807.9 | 17062.2 | 19611.0 | 22242.5 | 23345.7 | 23211.0 | 21892.9 | 22828.3 | 21018.9 |
| 62.5° | 12661.4 | 12696.8 | 13960.6 | 15921.3 | 20255.9 | 26461.4 | 27290.5 | 26721.2 | 24531.5 | 25086.6 | 23109.4 |
| 65°   | 8194.5  | 8426.0  | 9427.6  | 12174.8 | 18137.0 | 28802.3 | 34202.3 | 32886.6 | 28230.7 | 27649.6 | 24859.8 |
| 67.5° | 5173.2  | 5114.2  | 5529.9  | 6952.0  | 12474.8 | 26740.1 | 40100.8 | 39892.9 | 33068.5 | 29267.7 | 24441.7 |
| 69°   | 4289.8  | 4355.9  | 4497.6  | 5329.1  | 8584.2  | 22830.7 | 40797.6 | 42233.8 | 35414.2 | 29140.1 | 22922.8 |
| 70°   | 3890.5  | 3921.3  | 4070.1  | 4724.4  | 6623.6  | 19122.0 | 39654.3 | 42170.1 | 36335.4 | 28606.3 | 21822.0 |
| 72.5° | 3087.4  | 3085.0  | 3340.2  | 3930.7  | 4951.2  | 10915.7 | 32560.6 | 36611.8 | 35305.5 | 26121.2 | 18030.7 |
| 75°   | 2345.7  | 2383.5  | 2664.6  | 3326.0  | 4561.4  | 5964.6  | 22722.0 | 28195.3 | 28197.6 | 20631.5 | 11251.2 |
| 77.5° | 1691.3  | 1715.0  | 2043.3  | 2792.1  | 4296.8  | 4835.4  | 15134.6 | 20222.8 | 19011.0 | 9453.5  | 3536.2  |
| 80°   | 1107.9  | 1122.0  | 1372.4  | 2211.0  | 3874.0  | 4561.4  | 8974.0  | 12377.9 | 8966.9  | 2508.7  | 1169.3  |
| 82.5° | 607.1   | 678.0   | 838.6   | 1431.5  | 3108.7  | 4214.2  | 5454.3  | 6264.6  | 3363.8  | 1117.3  | 609.4   |
| 85°   | 304.7   | 323.6   | 472.4   | 836.2   | 2031.5  | 3486.6  | 3798.4  | 3592.9  | 1736.2  | 555.1   | 316.5   |
| 87.5° | 89.8    | 113.4   | 196.1   | 323.6   | 824.4   | 1816.5  | 2114.2  | 1896.8  | 668.5   | 200.8   | 66.1    |
| 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°    | 11704.7 | 11704.7 | 11704.7 | 11704.7 | 11704.7 | 11704.7 | 11704.7 | 11704.7 | 11704.7 | 11704.7 | 11704.7 |
| 2.5°  | 11607.9 | 11565.3 | 11376.4 | 11206.3 | 11050.4 | 10885.0 | 10745.7 | 10622.8 | 10634.6 | 10637.0 | 10511.8 |
| 5°    | 11343.3 | 11246.5 | 10887.4 | 10552.0 | 10268.5 | 9909.4  | 9602.4  | 9403.9  | 9304.7  | 9172.4  | 9219.7  |
| 7.5°  | 10984.2 | 10797.6 | 10299.2 | 9741.7  | 9219.7  | 8754.3  | 8248.8  | 7901.6  | 7679.5  | 7464.6  | 7492.9  |
| 10°   | 10613.4 | 10313.4 | 9588.2  | 8851.2  | 8175.6  | 7431.5  | 6786.6  | 6233.9  | 5822.8  | 5669.3  | 5567.7  |
| 12.5° | 10233.1 | 9838.6  | 8917.3  | 7937.0  | 7003.9  | 6113.4  | 5199.2  | 4606.3  | 4152.8  | 3911.8  | 3942.5  |
| 15°   | 9885.8  | 9406.3  | 8218.1  | 7022.8  | 5811.0  | 4750.4  | 3838.6  | 3274.0  | 2957.5  | 2891.3  | 2929.1  |
| 17.5° | 9564.6  | 8936.2  | 7563.8  | 6134.6  | 4719.7  | 3562.2  | 2884.3  | 2565.4  | 2437.8  | 2402.4  | 2400.0  |
| 20°   | 9233.9  | 8537.0  | 6829.1  | 5185.0  | 3678.0  | 2761.4  | 2366.9  | 2218.1  | 2194.5  | 2208.7  | 2211.0  |
| 22.5° | 8898.4  | 8043.3  | 6073.2  | 4242.5  | 2929.1  | 2258.3  | 2069.3  | 2029.1  | 2048.0  | 2081.1  | 2085.8  |
| 25°   | 8589.0  | 7608.7  | 5345.7  | 3415.7  | 2338.6  | 1984.3  | 1892.1  | 1892.1  | 1934.6  | 1984.3  | 1986.6  |
| 27.5° | 8333.9  | 7188.2  | 4620.5  | 2711.8  | 1958.3  | 1785.8  | 1755.1  | 1771.7  | 1830.7  | 1868.5  | 1870.9  |
| 30°   | 8123.6  | 6796.1  | 3935.4  | 2173.2  | 1722.0  | 1627.6  | 1620.5  | 1648.8  | 1691.3  | 1726.8  | 1729.1  |
| 32.5° | 7965.4  | 6451.2  | 3295.3  | 1826.0  | 1559.1  | 1507.1  | 1504.7  | 1526.0  | 1549.6  | 1559.1  | 1568.5  |
| 35°   | 7903.9  | 6165.4  | 2709.4  | 1606.3  | 1450.4  | 1417.3  | 1417.3  | 1415.0  | 1424.4  | 1429.1  | 1433.9  |
| 37.5° | 7953.5  | 5945.7  | 2255.9  | 1464.6  | 1370.1  | 1346.5  | 1332.3  | 1318.1  | 1313.4  | 1313.4  | 1315.7  |
| 40°   | 8163.8  | 5829.9  | 1918.1  | 1372.4  | 1313.4  | 1278.0  | 1252.0  | 1235.4  | 1218.9  | 1223.6  | 1228.3  |
| 42.5° | 8610.2  | 5851.2  | 1689.0  | 1311.0  | 1263.8  | 1214.2  | 1176.4  | 1157.5  | 1145.7  | 1159.8  | 1157.5  |
| 45°   | 9321.3  | 6063.8  | 1542.5  | 1268.5  | 1214.2  | 1150.4  | 1115.0  | 1096.1  | 1096.1  | 1117.3  | 1124.4  |
| 47.5° | 10315.7 | 6470.1  | 1464.6  | 1235.4  | 1176.4  | 1100.8  | 1065.4  | 1051.2  | 1055.9  | 1091.3  | 1093.7  |
| 50°   | 11529.9 | 7176.4  | 1450.4  | 1218.9  | 1157.5  | 1065.4  | 1025.2  | 1011.0  | 1022.8  | 1060.6  | 1065.4  |
| 52.5° | 12869.3 | 8085.8  | 1518.9  | 1221.3  | 1140.9  | 1044.1  | 992.1   | 970.9   | 982.7   | 1013.4  | 1022.8  |
| 55°   | 14456.7 | 9224.4  | 1696.1  | 1230.7  | 1117.3  | 1032.3  | 968.5   | 921.3   | 935.4   | 956.7   | 959.1   |
| 57.5° | 16077.2 | 10660.6 | 2007.9  | 1233.1  | 1098.4  | 1011.0  | 928.3   | 866.9   | 866.9   | 881.1   | 888.2   |
| 60°   | 18056.7 | 12224.4 | 2418.9  | 1235.4  | 1100.8  | 980.3   | 874.0   | 805.5   | 796.1   | 803.1   | 805.5   |
| 62.5° | 20022.0 | 13533.1 | 2487.4  | 1228.3  | 1124.4  | 949.6   | 815.0   | 744.1   | 727.6   | 725.2   | 720.5   |
| 65°   | 20889.0 | 13289.8 | 2038.6  | 1195.3  | 1150.4  | 930.7   | 767.7   | 685.0   | 656.7   | 647.2   | 647.2   |
| 67.5° | 19476.4 | 11241.7 | 1533.1  | 1150.4  | 1133.9  | 911.8   | 722.8   | 635.4   | 602.4   | 583.5   | 583.5   |
| 69°   | 18148.8 | 9999.2  | 1377.2  | 1119.7  | 1091.3  | 881.1   | 694.5   | 609.4   | 569.3   | 548.0   | 540.9   |
| 70°   | 17123.6 | 9144.1  | 1311.0  | 1093.7  | 1051.2  | 845.7   | 673.2   | 590.6   | 545.7   | 522.0   | 517.3   |
| 72.5° | 13665.3 | 7174.0  | 1148.0  | 994.5   | 895.3   | 711.0   | 597.6   | 531.5   | 489.0   | 463.0   | 455.9   |
| 75°   | 7875.6  | 3888.2  | 952.0   | 864.6   | 720.5   | 552.8   | 505.5   | 463.0   | 429.9   | 406.3   | 399.2   |
| 77.5° | 2423.6  | 1502.4  | 689.8   | 682.7   | 529.1   | 427.6   | 403.9   | 387.4   | 363.8   | 337.8   | 333.1   |
| 80°   | 1020.5  | 765.4   | 467.7   | 460.6   | 352.0   | 297.6   | 290.6   | 288.2   | 278.7   | 257.5   | 250.4   |
| 82.5° | 559.8   | 432.3   | 326.0   | 283.5   | 212.6   | 172.4   | 179.5   | 181.9   | 174.8   | 153.5   | 139.4   |
| 85°   | 274.0   | 236.2   | 158.3   | 127.6   | 96.9    | 61.4    | 59.1    | 70.9    | 66.1    | 47.2    | 52.0    |
| 87.5° | 54.3    | 66.1    | 42.5    | 18.9    | 9.4     | 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     | 0.0     |

(END OF REPORT)