

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: P459508

Luminaire Tested: **GALN-SA9C-735-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459508  
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-SA9C-735-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1050mA 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: 58847 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

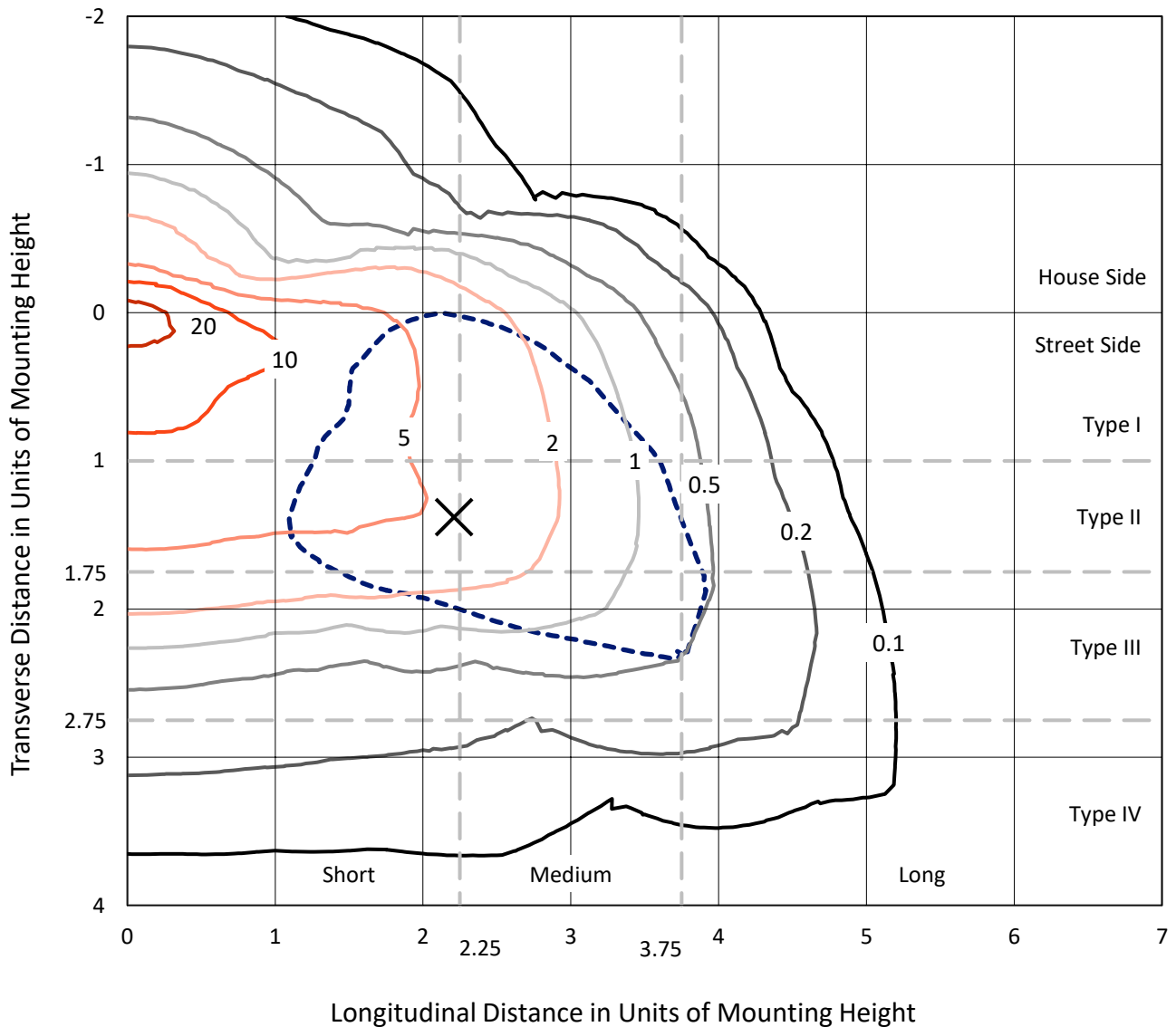
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

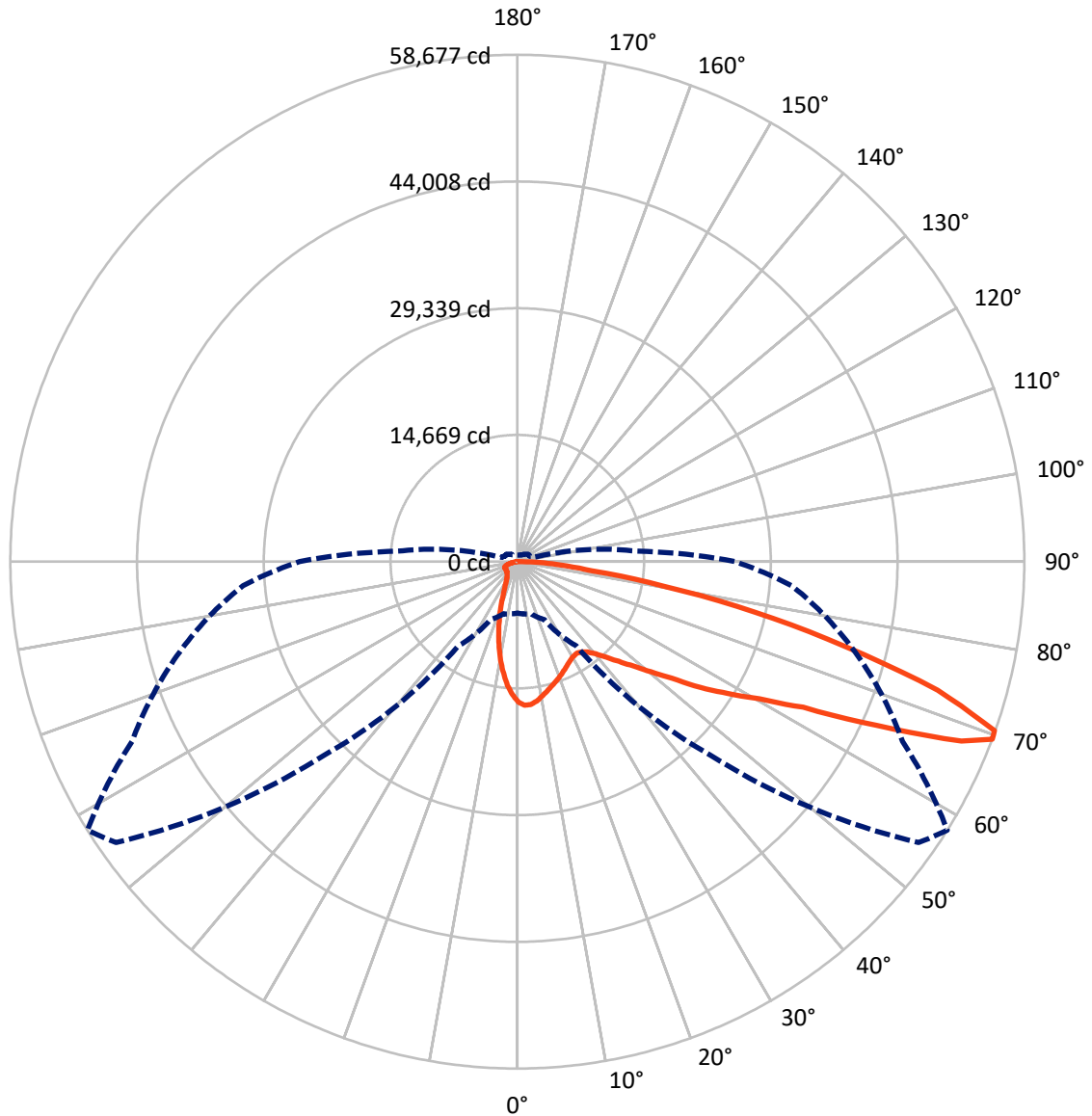
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26 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    | 8624.0   | 0.0    | 8624.0  |
|                    | % Fixture | 14.7     | 0.0    | 14.7    |
| <b>Street Side</b> | Lumens    | 50223.0  | 0.0    | 50223.0 |
|                    | % Fixture | 85.3     | 0.0    | 85.3    |
| <b>Total</b>       | Lumens    | 58847.0  | 0.0    | 58847.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1381.0  | 2.3       |
| 10°-20°   | 3032.5  | 5.2       |
| 20°-30°   | 3918.0  | 6.7       |
| 30°-40°   | 5088.8  | 8.6       |
| 40°-50°   | 7398.3  | 12.6      |
| 50°-60°   | 11805.3 | 20.1      |
| 60°-70°   | 15770.4 | 26.8      |
| 70°-80°   | 9091.0  | 15.4      |
| 80°-90°   | 1361.6  | 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°    | 58847.0 | 100.0     |
| 0°-180°   | 58847.0 | 100.0     |

**Coefficient of Utilization**

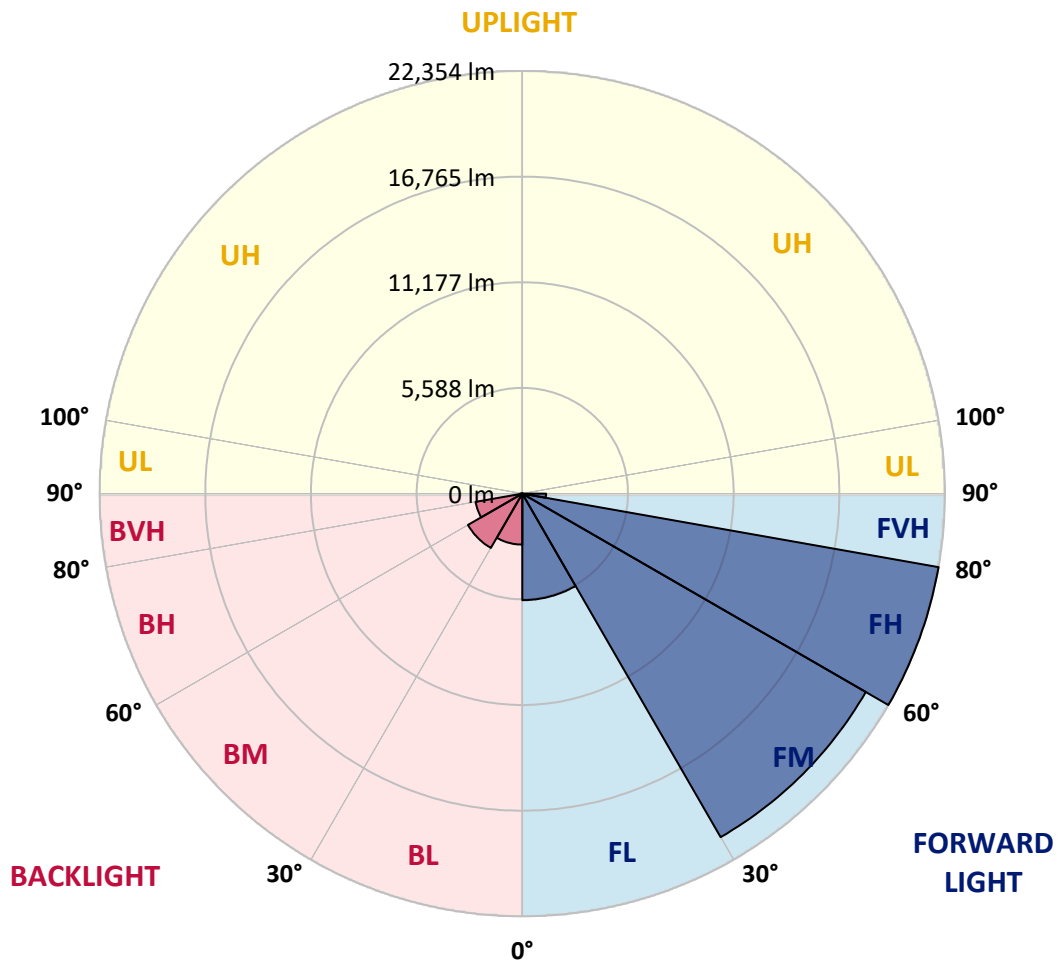


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 5636.0  | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 20975.9 | 35.6      |                         |      |         |
| FH   | (60°-80°)   | 22353.7 | 38.0      |                         |      | G5      |
| FVH  | (80°-90°)   | 1257.3  | 2.1       |                         |      | G5      |
| BL   | (0°-30°)    | 2695.5  | 4.6       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 3316.5  | 5.6       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2507.7  | 4.3       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 104.3   | 0.2       |                         |      | 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 Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 16261.9 | 16261.9 | 16261.9 | 16261.9 | 16261.9 | 16261.9 | 16261.9 | 16261.9 | 16261.9 | 16261.9 | 16261.9 |
| 2.5°  | 16865.7 | 16911.7 | 16898.6 | 16882.1 | 16855.9 | 16783.7 | 16665.5 | 16645.8 | 16570.4 | 16409.6 | 16209.4 |
| 5°    | 16606.5 | 16645.8 | 16649.1 | 16672.1 | 16704.9 | 16691.8 | 16606.5 | 16596.6 | 16485.0 | 16268.4 | 15933.7 |
| 7.5°  | 15717.1 | 15769.6 | 15884.4 | 16012.4 | 16127.3 | 16235.6 | 16261.9 | 16278.3 | 16209.4 | 15959.9 | 15513.6 |
| 10°   | 14716.1 | 14768.6 | 14821.1 | 15011.5 | 15293.7 | 15562.8 | 15786.0 | 15815.5 | 15831.9 | 15602.2 | 15057.4 |
| 12.5° | 13606.8 | 13715.1 | 13826.7 | 14108.9 | 14486.4 | 14909.7 | 15303.5 | 15365.9 | 15477.5 | 15303.5 | 14663.6 |
| 15°   | 12664.9 | 12776.5 | 12937.3 | 13190.0 | 13646.2 | 14256.6 | 14811.3 | 14913.0 | 15132.9 | 15044.3 | 14296.0 |
| 17.5° | 12011.8 | 12051.2 | 12162.8 | 12451.6 | 12943.9 | 13587.1 | 14328.8 | 14532.3 | 14883.5 | 14860.5 | 13980.9 |
| 20°   | 11496.5 | 11545.8 | 11614.7 | 11791.9 | 12303.9 | 12983.2 | 13879.2 | 14141.8 | 14617.6 | 14696.4 | 13669.2 |
| 22.5° | 11279.9 | 11316.0 | 11306.2 | 11401.4 | 11749.2 | 12431.9 | 13423.0 | 13734.8 | 14381.3 | 14584.8 | 13380.3 |
| 25°   | 11293.1 | 11325.9 | 11276.6 | 11253.7 | 11460.4 | 11946.2 | 12947.1 | 13344.2 | 14191.0 | 14509.3 | 13117.8 |
| 27.5° | 11512.9 | 11535.9 | 11444.0 | 11352.1 | 11368.5 | 11644.2 | 12553.3 | 12993.1 | 14030.2 | 14542.1 | 12897.9 |
| 30°   | 11808.3 | 11851.0 | 11791.9 | 11680.3 | 11558.9 | 11572.0 | 12300.6 | 12733.8 | 13954.7 | 14657.0 | 12792.9 |
| 32.5° | 12189.0 | 12228.4 | 12202.1 | 12113.5 | 11956.0 | 11782.1 | 12238.2 | 12638.6 | 13961.2 | 14890.0 | 12769.9 |
| 35°   | 12589.4 | 12668.2 | 12710.8 | 12704.3 | 12576.3 | 12274.3 | 12484.4 | 12815.9 | 14118.8 | 15280.6 | 12904.5 |
| 37.5° | 13042.3 | 13107.9 | 13291.7 | 13409.9 | 13291.7 | 12940.6 | 13039.0 | 13268.8 | 14466.7 | 15845.1 | 13199.8 |
| 40°   | 13482.1 | 13580.5 | 13849.7 | 14217.2 | 14171.3 | 13862.8 | 13885.8 | 14036.7 | 15080.4 | 16685.2 | 13777.5 |
| 42.5° | 13941.6 | 14059.7 | 14529.0 | 15073.8 | 15182.1 | 14942.5 | 15004.9 | 15139.5 | 15953.4 | 17850.3 | 14768.6 |
| 45°   | 14532.3 | 14673.4 | 15251.0 | 15930.4 | 16357.0 | 16209.4 | 16386.6 | 16452.2 | 17121.7 | 19366.6 | 16074.8 |
| 47.5° | 15293.7 | 15457.8 | 16170.0 | 17016.7 | 17620.6 | 17755.1 | 18063.6 | 18024.3 | 18569.0 | 21161.8 | 17768.3 |
| 50°   | 16576.9 | 16668.8 | 17341.6 | 18204.8 | 19035.1 | 19642.2 | 19977.0 | 20039.3 | 20364.3 | 22907.7 | 19661.9 |
| 52.5° | 18103.0 | 18185.1 | 18670.8 | 19425.6 | 20466.0 | 21752.5 | 22579.5 | 22376.1 | 22454.8 | 25034.4 | 21877.2 |
| 55°   | 19819.5 | 19957.3 | 20265.8 | 20767.9 | 22116.8 | 24010.5 | 25671.1 | 25720.3 | 24847.3 | 27069.2 | 24000.6 |
| 57.5° | 21148.6 | 21381.6 | 21910.0 | 22625.5 | 24335.4 | 26521.1 | 28752.8 | 28785.6 | 27669.8 | 29241.8 | 26343.9 |
| 60°   | 20479.1 | 20754.8 | 21962.5 | 23705.2 | 27246.4 | 30902.5 | 32435.1 | 32248.1 | 30416.7 | 31716.4 | 29202.4 |
| 62.5° | 17591.0 | 17640.3 | 19396.1 | 22120.1 | 28142.4 | 36764.0 | 37915.9 | 37125.0 | 34082.6 | 34853.9 | 32106.9 |
| 65°   | 11384.9 | 11706.6 | 13098.1 | 16915.0 | 25198.5 | 40016.3 | 47518.8 | 45690.8 | 39222.1 | 38414.8 | 34538.8 |
| 67.5° | 7187.4  | 7105.3  | 7683.0  | 9658.7  | 17331.8 | 37151.2 | 55713.7 | 55424.9 | 45943.5 | 40662.9 | 33957.9 |
| 69°   | 5959.9  | 6051.8  | 6248.8  | 7404.0  | 11926.5 | 31719.7 | 56681.9 | 58677.3 | 49202.4 | 40485.6 | 31847.7 |
| 70°   | 5405.3  | 5448.0  | 5654.7  | 6563.8  | 9202.5  | 26567.1 | 55093.4 | 58588.7 | 50482.3 | 39743.9 | 30318.3 |
| 72.5° | 4289.5  | 4286.2  | 4640.6  | 5461.1  | 6878.9  | 15165.7 | 45237.9 | 50866.3 | 49051.4 | 36291.4 | 25050.8 |
| 75°   | 3258.9  | 3311.4  | 3702.0  | 4620.9  | 6337.4  | 8286.8  | 31568.7 | 39172.9 | 39176.2 | 28664.2 | 15631.7 |
| 77.5° | 2349.8  | 2382.7  | 2838.9  | 3879.2  | 5969.8  | 6718.1  | 21027.2 | 28096.4 | 26412.8 | 13134.2 | 4913.0  |
| 80°   | 1539.2  | 1558.9  | 1906.8  | 3071.9  | 5382.3  | 6337.4  | 12468.0 | 17197.2 | 12458.1 | 3485.4  | 1624.5  |
| 82.5° | 843.5   | 941.9   | 1165.1  | 1988.8  | 4319.0  | 5854.9  | 7577.9  | 8703.6  | 4673.4  | 1552.3  | 846.7   |
| 85°   | 423.4   | 449.6   | 656.4   | 1161.8  | 2822.4  | 4844.1  | 5277.3  | 4991.8  | 2412.2  | 771.2   | 439.8   |
| 87.5° | 124.7   | 157.5   | 272.4   | 449.6   | 1145.4  | 2523.8  | 2937.3  | 2635.4  | 928.8   | 279.0   | 91.9    |
| 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°    | 16261.9 | 16261.9 | 16261.9 | 16261.9 | 16261.9 | 16261.9 | 16261.9 | 16261.9 | 16261.9 | 16261.9 | 16261.9 |
| 2.5°  | 16127.3 | 16068.2 | 15805.7 | 15569.4 | 15352.8 | 15123.0 | 14929.4 | 14758.8 | 14775.2 | 14778.4 | 14604.5 |
| 5°    | 15759.7 | 15625.2 | 15126.3 | 14660.3 | 14266.5 | 13767.6 | 13341.0 | 13065.3 | 12927.4 | 12743.7 | 12809.3 |
| 7.5°  | 15260.9 | 15001.6 | 14309.1 | 13534.6 | 12809.3 | 12162.8 | 11460.4 | 10978.0 | 10669.5 | 10370.8 | 10410.2 |
| 10°   | 14745.6 | 14328.8 | 13321.3 | 12297.3 | 11358.7 | 10324.9 | 9428.9  | 8661.0  | 8089.9  | 7876.6  | 7735.5  |
| 12.5° | 14217.2 | 13669.2 | 12389.2 | 11027.2 | 9730.9  | 8493.6  | 7223.5  | 6399.7  | 5769.6  | 5434.8  | 5477.5  |
| 15°   | 13734.8 | 13068.6 | 11417.8 | 9757.1  | 8073.5  | 6599.9  | 5333.1  | 4548.7  | 4109.0  | 4017.1  | 4069.6  |
| 17.5° | 13288.5 | 12415.5 | 10508.7 | 8523.1  | 6557.3  | 4949.1  | 4007.2  | 3564.2  | 3386.9  | 3337.7  | 3334.4  |
| 20°   | 12829.0 | 11860.8 | 9488.0  | 7203.8  | 5109.9  | 3836.6  | 3288.5  | 3081.7  | 3048.9  | 3068.6  | 3071.9  |
| 22.5° | 12363.0 | 11174.9 | 8437.8  | 5894.3  | 4069.6  | 3137.5  | 2875.0  | 2819.2  | 2845.4  | 2891.4  | 2897.9  |
| 25°   | 11933.0 | 10571.0 | 7427.0  | 4745.6  | 3249.1  | 2756.8  | 2628.8  | 2628.8  | 2687.9  | 2756.8  | 2760.1  |
| 27.5° | 11578.6 | 9986.9  | 6419.4  | 3767.6  | 2720.7  | 2481.1  | 2438.5  | 2461.4  | 2543.5  | 2596.0  | 2599.3  |
| 30°   | 11286.5 | 9442.1  | 5467.7  | 3019.4  | 2392.5  | 2261.2  | 2251.4  | 2290.8  | 2349.8  | 2399.1  | 2402.4  |
| 32.5° | 11066.6 | 8962.9  | 4578.3  | 2536.9  | 2166.1  | 2093.9  | 2090.6  | 2120.1  | 2152.9  | 2166.1  | 2179.2  |
| 35°   | 10981.3 | 8565.8  | 3764.4  | 2231.7  | 2015.1  | 1969.1  | 1969.1  | 1965.9  | 1979.0  | 1985.6  | 1992.1  |
| 37.5° | 11050.2 | 8260.6  | 3134.2  | 2034.8  | 1903.5  | 1870.7  | 1851.0  | 1831.3  | 1824.7  | 1824.7  | 1828.0  |
| 40°   | 11342.3 | 8099.8  | 2664.9  | 1906.8  | 1824.7  | 1775.5  | 1739.4  | 1716.4  | 1693.5  | 1700.0  | 1706.6  |
| 42.5° | 11962.6 | 8129.3  | 2346.6  | 1821.5  | 1755.8  | 1686.9  | 1634.4  | 1608.1  | 1591.7  | 1611.4  | 1608.1  |
| 45°   | 12950.4 | 8424.7  | 2143.1  | 1762.4  | 1686.9  | 1598.3  | 1549.1  | 1522.8  | 1522.8  | 1552.3  | 1562.2  |
| 47.5° | 14332.1 | 8989.2  | 2034.8  | 1716.4  | 1634.4  | 1529.4  | 1480.1  | 1460.5  | 1467.0  | 1516.2  | 1519.5  |
| 50°   | 16019.0 | 9970.4  | 2015.1  | 1693.5  | 1608.1  | 1480.1  | 1424.3  | 1404.7  | 1421.1  | 1473.6  | 1480.1  |
| 52.5° | 17879.8 | 11234.0 | 2110.3  | 1696.7  | 1585.2  | 1450.6  | 1378.4  | 1348.9  | 1365.3  | 1407.9  | 1421.1  |
| 55°   | 20085.3 | 12815.9 | 2356.4  | 1709.9  | 1552.3  | 1434.2  | 1345.6  | 1279.9  | 1299.6  | 1329.2  | 1332.5  |
| 57.5° | 22336.7 | 14811.3 | 2789.6  | 1713.2  | 1526.1  | 1404.7  | 1289.8  | 1204.5  | 1204.5  | 1224.2  | 1234.0  |
| 60°   | 25086.9 | 16983.9 | 3360.7  | 1716.4  | 1529.4  | 1362.0  | 1214.3  | 1119.1  | 1106.0  | 1115.8  | 1119.1  |
| 62.5° | 27817.5 | 18802.1 | 3455.9  | 1706.6  | 1562.2  | 1319.3  | 1132.3  | 1033.8  | 1010.8  | 1007.5  | 1001.0  |
| 65°   | 29021.9 | 18464.0 | 2832.3  | 1660.6  | 1598.3  | 1293.1  | 1066.6  | 951.8   | 912.4   | 899.2   | 899.2   |
| 67.5° | 27059.4 | 15618.6 | 2130.0  | 1598.3  | 1575.3  | 1266.8  | 1004.3  | 882.8   | 836.9   | 810.6   | 810.6   |
| 69°   | 25214.9 | 13892.3 | 1913.4  | 1555.6  | 1516.2  | 1224.2  | 964.9   | 846.7   | 790.9   | 761.4   | 751.6   |
| 70°   | 23790.6 | 12704.3 | 1821.5  | 1519.5  | 1460.5  | 1174.9  | 935.3   | 820.5   | 758.1   | 725.3   | 718.7   |
| 72.5° | 18985.9 | 9967.2  | 1595.0  | 1381.7  | 1243.8  | 987.9   | 830.3   | 738.4   | 679.4   | 643.3   | 633.4   |
| 75°   | 10941.9 | 5402.0  | 1322.6  | 1201.2  | 1001.0  | 768.0   | 702.3   | 643.3   | 597.3   | 564.5   | 554.6   |
| 77.5° | 3367.2  | 2087.3  | 958.3   | 948.5   | 735.1   | 594.0   | 561.2   | 538.2   | 505.4   | 469.3   | 462.7   |
| 80°   | 1417.8  | 1063.3  | 649.8   | 640.0   | 489.0   | 413.5   | 403.7   | 400.4   | 387.3   | 357.7   | 347.9   |
| 82.5° | 777.8   | 600.6   | 452.9   | 393.8   | 295.4   | 239.6   | 249.4   | 252.7   | 242.9   | 213.3   | 193.6   |
| 85°   | 380.7   | 328.2   | 219.9   | 177.2   | 134.6   | 85.3    | 82.0    | 98.5    | 91.9    | 65.6    | 72.2    |
| 87.5° | 75.5    | 91.9    | 59.1    | 26.3    | 13.1    | 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)