

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: P522891

Luminaire Tested: **GALN-SA8C-830-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522891  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8C-830-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45145 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 429  
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

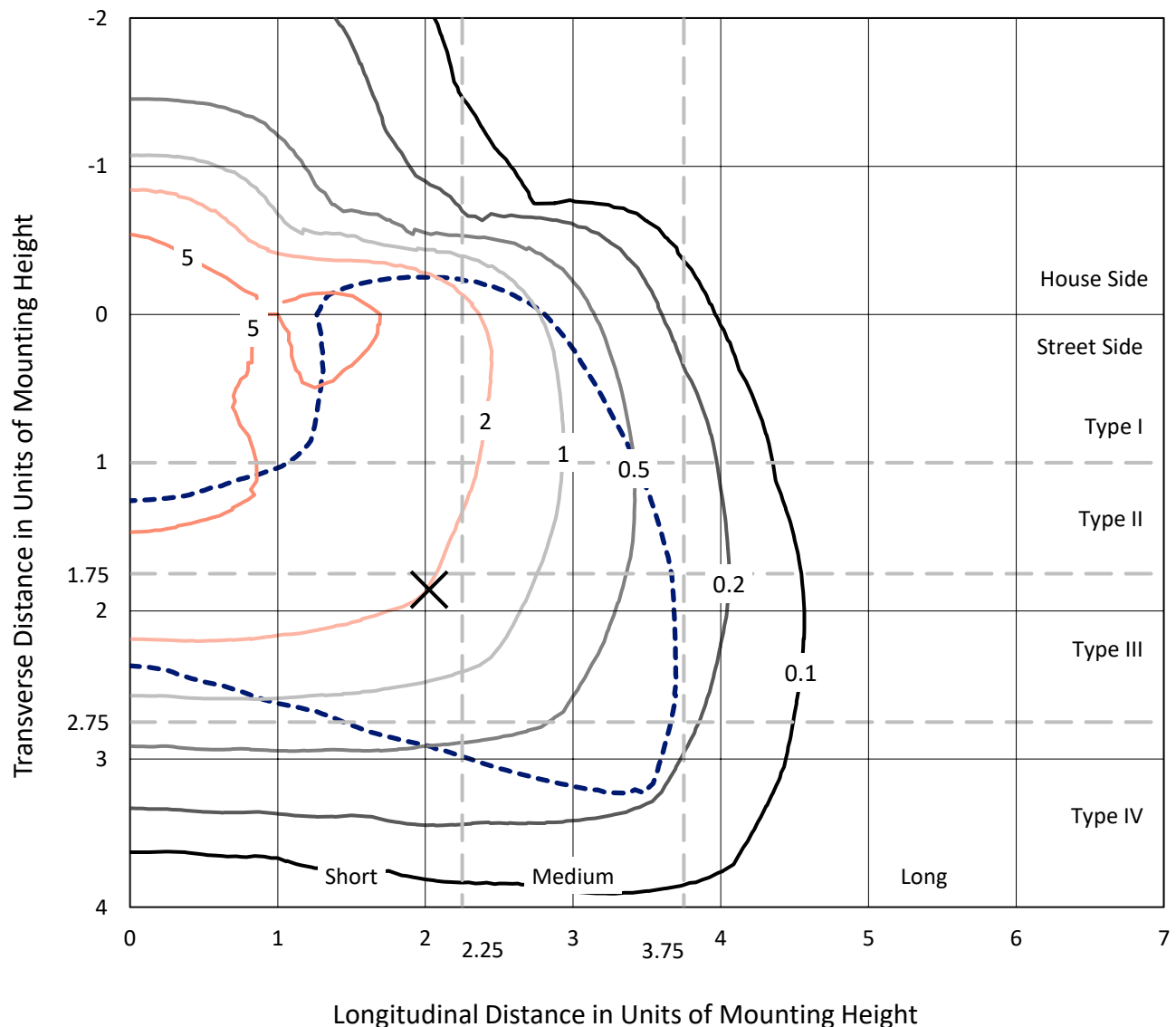


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

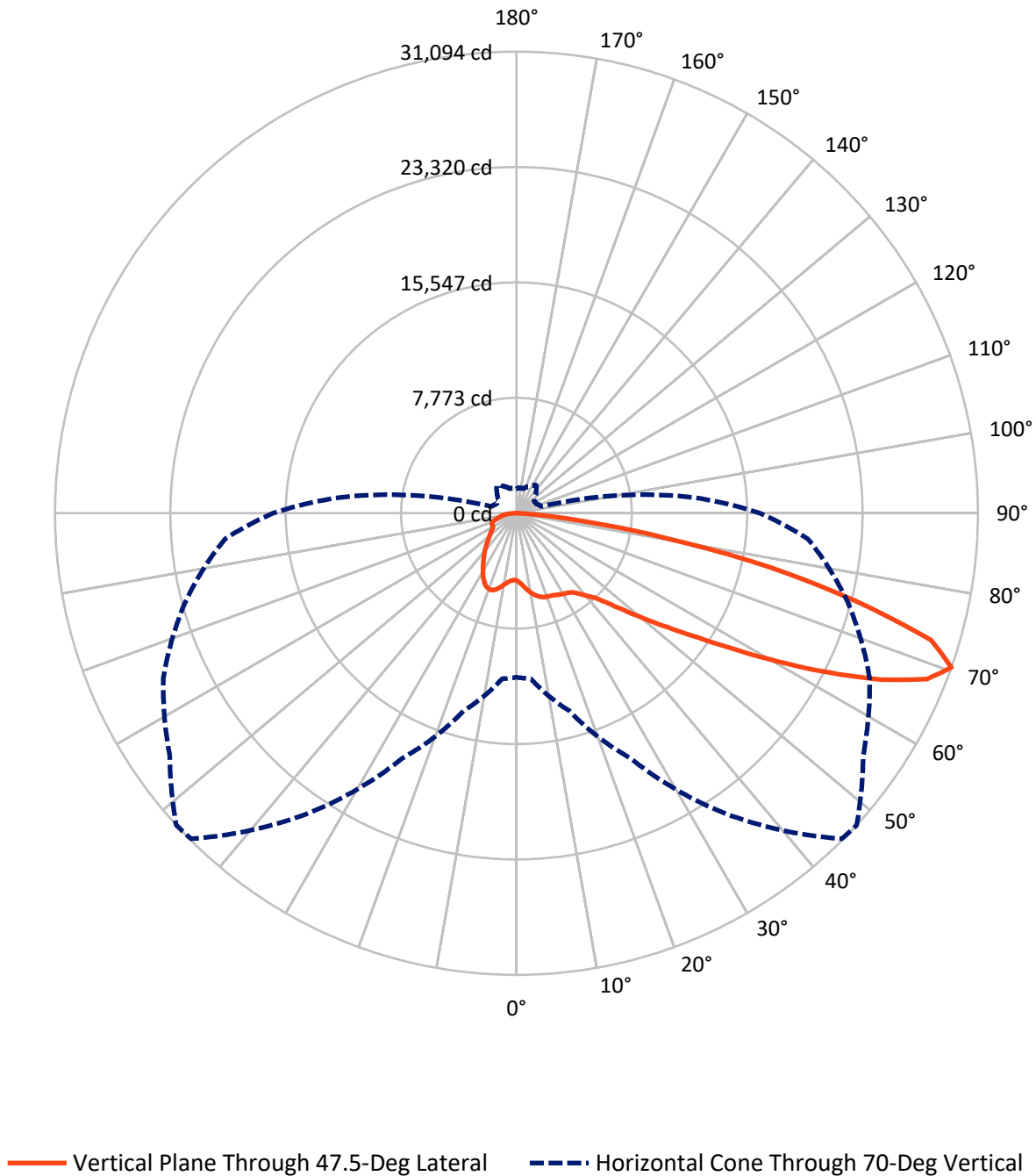


Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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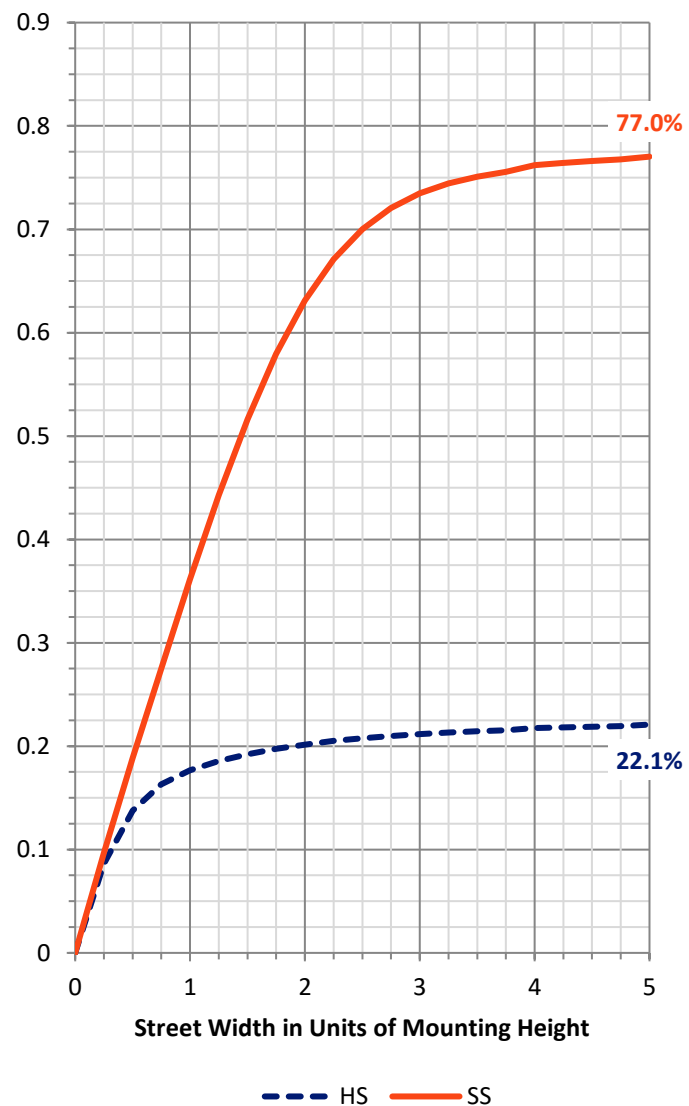
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10221.7  | 0.0    | 10221.7 |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 34923.3  | 0.0    | 34923.3 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 45145.0  | 0.0    | 45145.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 467.2   | 1.0       |
| 10°-20°   | 1561.7  | 3.5       |
| 20°-30°   | 2597.2  | 5.8       |
| 30°-40°   | 3681.1  | 8.2       |
| 40°-50°   | 5434.1  | 12.0      |
| 50°-60°   | 9412.0  | 20.8      |
| 60°-70°   | 13294.8 | 29.4      |
| 70°-80°   | 7642.6  | 16.9      |
| 80°-90°   | 1054.5  | 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°    | 45145.0 | 100.0     |
| 0°-180°   | 45145.0 | 100.0     |

**Coefficient of Utilization**



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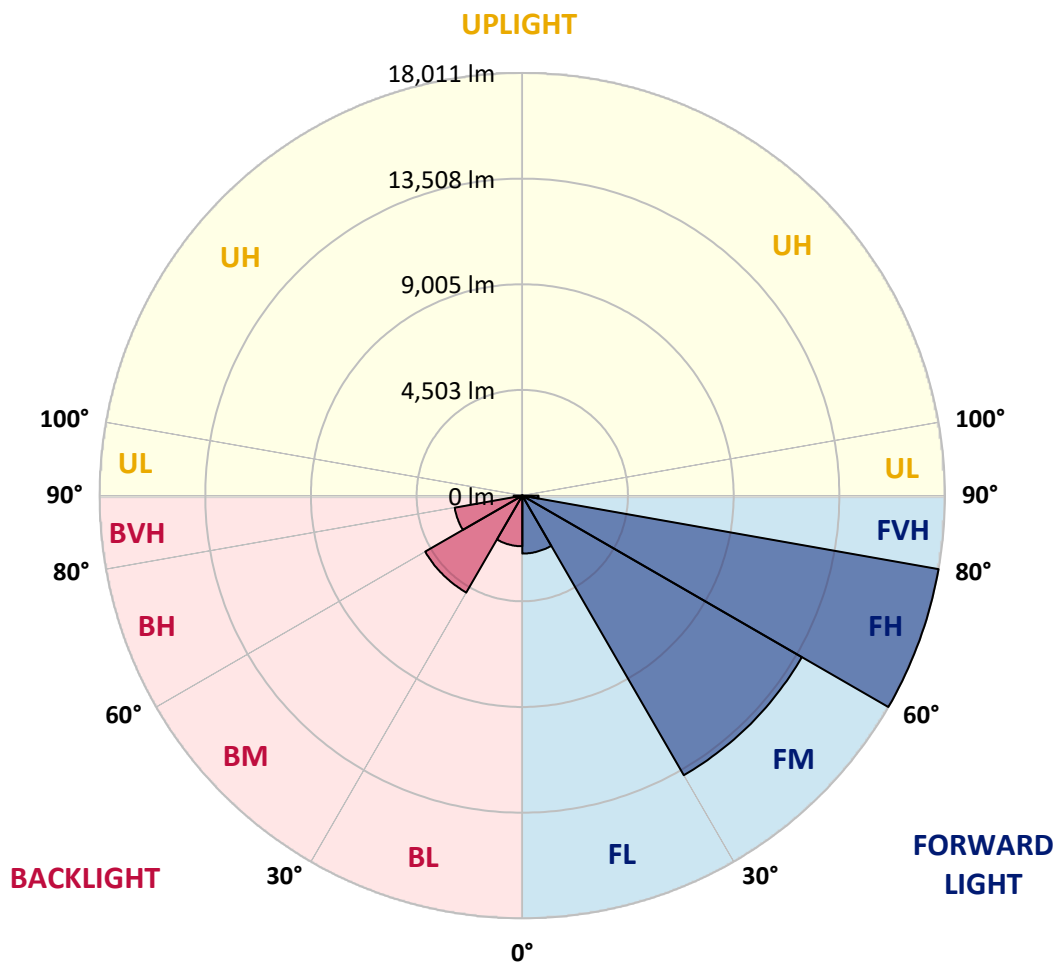
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2468.7  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 13754.8 | 30.5      |                         |      |         |
| FH   | (60°-80°)   | 18011.0 | 39.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 688.8   | 1.5       |                         |      | G4/750  |
| BL   | (0°-30°)    | 2157.4  | 4.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4772.3  | 10.6      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2926.3  | 6.5       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 365.7   | 0.8       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 47.5°   | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4532.0  | 4532.0  | 4532.0  | 4532.0  | 4532.0  | 4532.0  | 4532.0  | 4532.0  | 4532.0  | 4532.0  | 4532.0  |
| 2.5°  | 4824.3  | 4807.4  | 4805.0  | 4768.8  | 4749.4  | 4713.2  | 4698.7  | 4664.9  | 4623.8  | 4582.7  | 4544.1  |
| 5°    | 5203.6  | 5203.6  | 5186.7  | 5136.0  | 5056.2  | 4974.1  | 4937.9  | 4872.6  | 4756.7  | 4662.5  | 4582.7  |
| 7.5°  | 5592.5  | 5597.4  | 5563.6  | 5488.7  | 5375.1  | 5242.3  | 5208.4  | 5111.8  | 4947.5  | 4809.8  | 4691.5  |
| 10°   | 5928.3  | 5928.3  | 5882.4  | 5781.0  | 5638.4  | 5493.5  | 5459.7  | 5351.0  | 5167.4  | 4995.8  | 4841.2  |
| 12.5° | 6184.4  | 6184.4  | 6124.0  | 5991.1  | 5836.5  | 5706.1  | 5667.4  | 5563.6  | 5392.0  | 5201.2  | 5005.5  |
| 15°   | 6351.1  | 6339.0  | 6271.4  | 6121.6  | 5971.8  | 5858.3  | 5831.7  | 5744.7  | 5587.7  | 5394.5  | 5174.6  |
| 17.5° | 6358.3  | 6353.5  | 6288.3  | 6162.7  | 6032.2  | 5954.9  | 5938.0  | 5880.0  | 5756.8  | 5573.2  | 5341.3  |
| 20°   | 6218.2  | 6227.9  | 6184.4  | 6095.0  | 6032.2  | 5998.4  | 5991.1  | 5971.8  | 5884.9  | 5713.3  | 5481.4  |
| 22.5° | 6068.5  | 6085.4  | 6044.3  | 5996.0  | 5991.1  | 6025.0  | 6029.8  | 6034.6  | 5979.1  | 5812.4  | 5599.8  |
| 25°   | 6032.2  | 6044.3  | 6003.2  | 5959.7  | 5986.3  | 6075.7  | 6095.0  | 6114.4  | 6070.9  | 5930.8  | 5739.9  |
| 27.5° | 6215.8  | 6206.2  | 6126.4  | 6032.2  | 6049.1  | 6169.9  | 6196.5  | 6218.2  | 6196.5  | 6075.7  | 5913.8  |
| 30°   | 6735.2  | 6703.8  | 6544.4  | 6269.0  | 6182.0  | 6266.5  | 6293.1  | 6353.5  | 6353.5  | 6264.1  | 6102.3  |
| 32.5° | 7604.9  | 7544.5  | 7252.2  | 6711.1  | 6409.1  | 6358.3  | 6384.9  | 6484.0  | 6534.7  | 6464.6  | 6288.3  |
| 35°   | 8660.6  | 8597.8  | 8179.9  | 7452.7  | 6824.6  | 6541.9  | 6534.7  | 6645.8  | 6781.1  | 6624.1  | 6394.6  |
| 37.5° | 9721.1  | 9655.9  | 9153.4  | 8336.9  | 7431.0  | 6928.5  | 6885.0  | 6923.6  | 6981.6  | 6694.1  | 6541.9  |
| 40°   | 10781.7 | 10704.3 | 10264.7 | 9324.9  | 8172.6  | 7440.6  | 7327.1  | 7153.1  | 7129.0  | 6923.6  | 6827.0  |
| 42.5° | 11832.5 | 11762.5 | 11540.2 | 10433.8 | 9061.6  | 7940.7  | 7766.8  | 7467.2  | 7559.0  | 7435.8  | 7351.2  |
| 45°   | 12893.1 | 12897.9 | 12661.1 | 11677.9 | 10134.2 | 8863.5  | 8629.2  | 8160.5  | 8377.9  | 8332.0  | 8380.4  |
| 47.5° | 13832.8 | 13820.7 | 13736.2 | 12885.8 | 11465.3 | 10052.1 | 9750.1  | 9206.6  | 9578.6  | 9747.7  | 10117.3 |
| 50°   | 14743.5 | 14736.3 | 14741.1 | 14255.6 | 13011.4 | 11465.3 | 11131.9 | 10561.8 | 11400.1 | 11987.1 | 12649.1 |
| 52.5° | 16048.1 | 16089.1 | 15796.8 | 15668.8 | 14890.9 | 13134.6 | 12767.4 | 12178.0 | 13552.6 | 14477.8 | 15770.3 |
| 55°   | 17357.4 | 17323.6 | 17094.1 | 17227.0 | 16857.4 | 15110.7 | 14726.6 | 14258.0 | 15949.0 | 16961.2 | 18903.5 |
| 57.5° | 18128.1 | 18140.1 | 18374.5 | 19024.3 | 19285.2 | 17574.8 | 17227.0 | 16864.6 | 18642.6 | 19360.1 | 21691.3 |
| 60°   | 18821.4 | 18877.0 | 19551.0 | 20778.2 | 21486.0 | 20601.8 | 20292.6 | 19939.9 | 21114.0 | 21399.0 | 24112.0 |
| 62.5° | 19038.8 | 19210.3 | 20386.8 | 22222.8 | 23631.2 | 24017.7 | 23633.6 | 22855.8 | 23466.9 | 23355.8 | 25752.3 |
| 65°   | 17954.1 | 18188.5 | 20297.4 | 22764.0 | 25546.9 | 27259.7 | 27015.7 | 25571.1 | 25472.0 | 24802.9 | 26020.4 |
| 67.5° | 15098.7 | 15333.0 | 18041.1 | 21628.5 | 26339.3 | 30066.9 | 29822.9 | 27552.0 | 26689.6 | 24938.2 | 23991.2 |
| 70°   | 11047.4 | 11194.8 | 13784.5 | 18210.2 | 24747.3 | 31009.0 | 31093.6 | 28518.4 | 26254.8 | 23099.7 | 19698.3 |
| 72.5° | 6365.6  | 6691.7  | 8506.0  | 12810.9 | 20217.7 | 28627.1 | 29214.1 | 26508.4 | 23505.6 | 19270.7 | 13772.4 |
| 75°   | 2737.1  | 2744.3  | 3932.9  | 7066.2  | 13692.7 | 23010.4 | 23578.1 | 21974.0 | 18459.0 | 13325.5 | 7353.7  |
| 77.5° | 1302.1  | 1326.3  | 1729.7  | 3155.0  | 7537.3  | 15898.3 | 17429.9 | 15523.8 | 11805.9 | 6401.8  | 2778.2  |
| 80°   | 845.5   | 862.4   | 1058.1  | 1565.4  | 3696.2  | 9218.6  | 10286.4 | 8955.3  | 5208.4  | 2287.7  | 1198.2  |
| 82.5° | 512.1   | 517.0   | 707.8   | 956.7   | 2034.1  | 4174.5  | 4921.0  | 3887.0  | 2222.5  | 1369.8  | 705.4   |
| 85°   | 311.6   | 314.1   | 430.0   | 591.9   | 1234.5  | 1442.2  | 1480.9  | 1468.8  | 1304.5  | 896.3   | 376.9   |
| 87.5° | 149.8   | 154.6   | 222.3   | 280.2   | 485.6   | 446.9   | 422.8   | 490.4   | 616.0   | 483.2   | 161.9   |
| 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°    | 4532.0  | 4532.0  | 4532.0 | 4532.0 | 4532.0 | 4532.0 | 4532.0 | 4532.0 | 4532.0 | 4532.0 | 4532.0 |
| 2.5°  | 4527.2  | 4519.9  | 4503.0 | 4495.8 | 4490.9 | 4493.4 | 4490.9 | 4490.9 | 4493.4 | 4493.4 | 4493.4 |
| 5°    | 4548.9  | 4536.8  | 4510.3 | 4510.3 | 4524.8 | 4558.6 | 4590.0 | 4614.2 | 4640.7 | 4638.3 | 4638.3 |
| 7.5°  | 4643.1  | 4621.4  | 4590.0 | 4599.7 | 4635.9 | 4689.0 | 4744.6 | 4797.8 | 4850.9 | 4855.7 | 4853.3 |
| 10°   | 4780.8  | 4759.1  | 4725.3 | 4737.4 | 4795.3 | 4875.1 | 4945.1 | 5022.4 | 5080.4 | 5097.3 | 5092.5 |
| 12.5° | 4937.9  | 4894.4  | 4865.4 | 4899.2 | 4991.0 | 5097.3 | 5165.0 | 5222.9 | 5264.0 | 5288.2 | 5278.5 |
| 15°   | 5097.3  | 5056.2  | 5022.4 | 5092.5 | 5203.6 | 5302.7 | 5336.5 | 5346.1 | 5353.4 | 5377.5 | 5372.7 |
| 17.5° | 5251.9  | 5196.4  | 5184.3 | 5276.1 | 5382.4 | 5425.9 | 5406.5 | 5365.5 | 5334.1 | 5353.4 | 5351.0 |
| 20°   | 5389.6  | 5346.1  | 5341.3 | 5433.1 | 5474.2 | 5433.1 | 5351.0 | 5278.5 | 5222.9 | 5227.8 | 5225.3 |
| 22.5° | 5520.1  | 5486.3  | 5491.1 | 5529.7 | 5464.5 | 5324.4 | 5189.1 | 5090.1 | 5029.7 | 5041.7 | 5049.0 |
| 25°   | 5665.0  | 5631.2  | 5643.3 | 5580.5 | 5365.5 | 5121.5 | 4925.8 | 4841.2 | 4817.1 | 4841.2 | 4858.1 |
| 27.5° | 5853.4  | 5831.7  | 5824.5 | 5582.9 | 5189.1 | 4821.9 | 4599.7 | 4568.3 | 4590.0 | 4643.1 | 4669.7 |
| 30°   | 6056.4  | 6056.4  | 6017.7 | 5541.8 | 4947.5 | 4462.0 | 4268.7 | 4273.5 | 4348.4 | 4423.3 | 4449.9 |
| 32.5° | 6252.1  | 6293.1  | 6172.3 | 5430.7 | 4635.9 | 4111.7 | 3964.3 | 3969.1 | 4034.4 | 4126.2 | 4150.3 |
| 35°   | 6413.9  | 6532.3  | 6305.2 | 5227.8 | 4268.7 | 3816.9 | 3705.8 | 3640.6 | 3643.0 | 3713.1 | 3732.4 |
| 37.5° | 6636.2  | 6856.0  | 6382.5 | 4925.8 | 3877.3 | 3565.7 | 3440.1 | 3326.5 | 3251.6 | 3222.7 | 3222.7 |
| 40°   | 7022.7  | 7346.4  | 6401.8 | 4478.9 | 3507.7 | 3326.5 | 3147.8 | 3012.5 | 2867.5 | 2737.1 | 2712.9 |
| 42.5° | 7677.4  | 8085.6  | 6363.2 | 3964.3 | 3174.3 | 3063.2 | 2889.3 | 2722.6 | 2522.1 | 2338.5 | 2324.0 |
| 45°   | 8836.9  | 9047.1  | 6259.3 | 3430.4 | 2877.2 | 2809.6 | 2640.5 | 2459.3 | 2246.7 | 2082.4 | 2070.3 |
| 47.5° | 10694.7 | 10397.5 | 6121.6 | 2956.9 | 2606.6 | 2587.3 | 2456.9 | 2246.7 | 2034.1 | 1920.5 | 1908.5 |
| 50°   | 13407.6 | 12523.4 | 6102.3 | 2613.9 | 2389.2 | 2398.9 | 2292.6 | 2099.3 | 1913.3 | 1819.1 | 1804.6 |
| 52.5° | 16673.8 | 15091.4 | 6230.3 | 2372.3 | 2198.4 | 2234.6 | 2181.5 | 2002.7 | 1838.4 | 1758.7 | 1744.2 |
| 55°   | 19843.3 | 17400.9 | 6307.6 | 2183.9 | 2019.6 | 2087.2 | 2094.5 | 1944.7 | 1794.9 | 1715.2 | 1705.5 |
| 57.5° | 22416.1 | 19140.3 | 5964.6 | 2012.3 | 1865.0 | 1968.9 | 2022.0 | 1910.9 | 1773.2 | 1712.8 | 1703.1 |
| 60°   | 24206.2 | 19961.6 | 4988.6 | 1860.2 | 1751.4 | 1874.7 | 1995.4 | 1913.3 | 1826.3 | 1833.6 | 1838.4 |
| 62.5° | 24776.3 | 19596.9 | 3742.1 | 1746.6 | 1674.1 | 1843.2 | 2038.9 | 2012.3 | 1923.0 | 1978.5 | 1988.2 |
| 65°   | 23831.7 | 18089.4 | 2712.9 | 1657.2 | 1606.5 | 1865.0 | 2169.4 | 2084.8 | 1889.1 | 1930.2 | 1930.2 |
| 67.5° | 20669.5 | 15584.2 | 2111.4 | 1575.1 | 1529.2 | 1906.1 | 2299.8 | 2077.6 | 1809.4 | 1857.7 | 1814.3 |
| 70°   | 16395.9 | 12054.8 | 1758.7 | 1483.3 | 1447.1 | 1845.7 | 2311.9 | 2002.7 | 1715.2 | 1724.9 | 1642.7 |
| 72.5° | 10880.7 | 7926.2  | 1512.3 | 1396.3 | 1321.4 | 1659.6 | 2212.9 | 1906.1 | 1623.4 | 1567.8 | 1485.7 |
| 75°   | 5331.6  | 3952.2  | 1319.0 | 1287.6 | 1157.2 | 1444.6 | 2077.6 | 1814.3 | 1524.4 | 1437.4 | 1391.5 |
| 77.5° | 2065.5  | 1681.4  | 1125.8 | 1149.9 | 1007.4 | 1273.1 | 1898.8 | 1683.8 | 1393.9 | 1275.5 | 1239.3 |
| 80°   | 1002.6  | 954.2   | 922.8  | 959.1  | 828.6  | 1084.7 | 1734.5 | 1570.3 | 1273.1 | 1142.7 | 1089.5 |
| 82.5° | 623.3   | 589.5   | 707.8  | 746.5  | 637.8  | 990.5  | 1645.2 | 1473.6 | 1120.9 | 947.0  | 903.5  |
| 85°   | 316.5   | 338.2   | 473.5  | 509.7  | 456.6  | 787.5  | 1355.3 | 1106.4 | 809.3  | 671.6  | 676.4  |
| 87.5° | 120.8   | 161.9   | 248.8  | 268.2  | 244.0  | 415.5  | 746.5  | 645.0  | 519.4  | 352.7  | 326.1  |
| 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)