

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: P455479

Luminaire Tested: **GALN-SA6C-830-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455479  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6C-830-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32427 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 321  
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

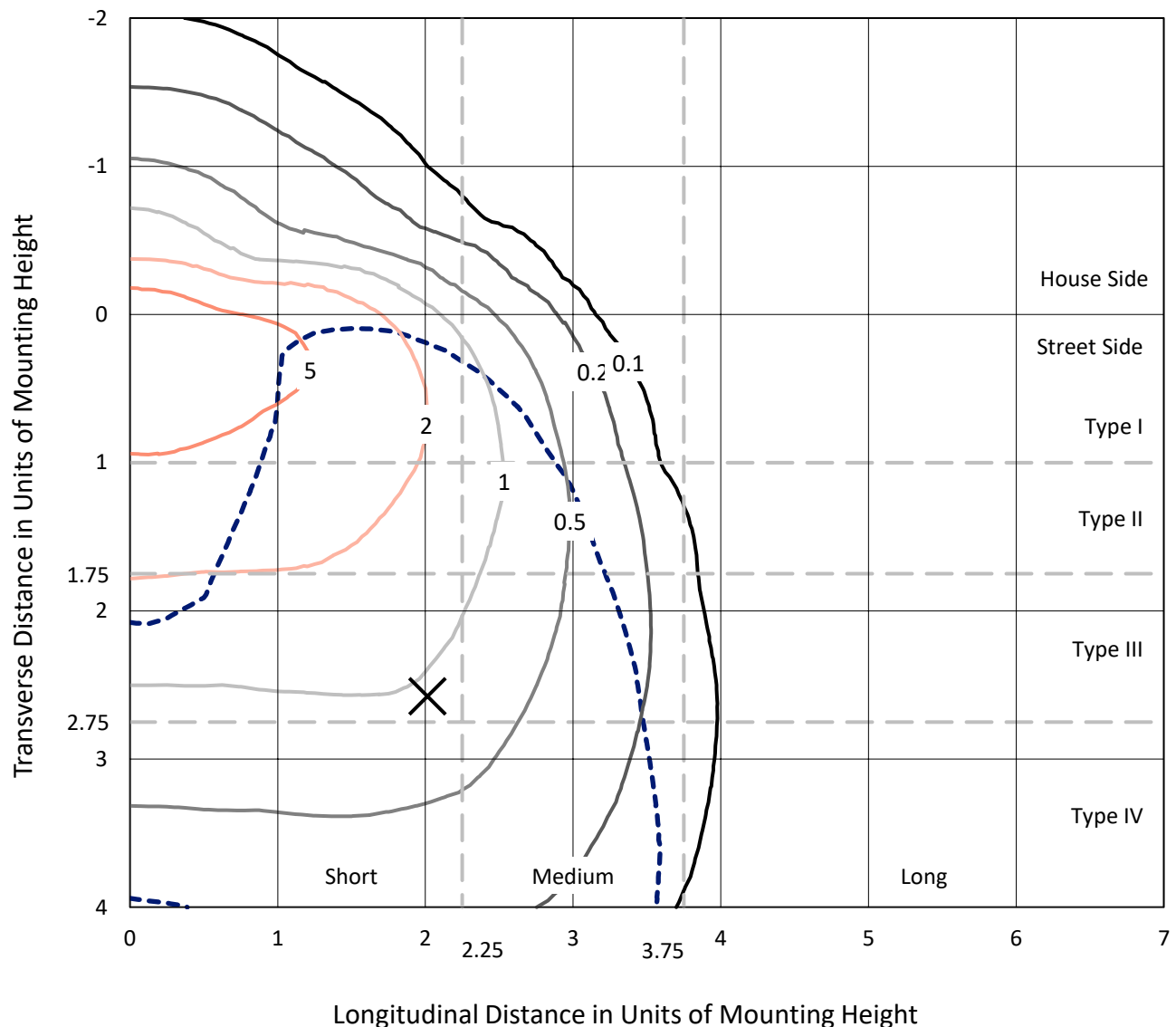


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

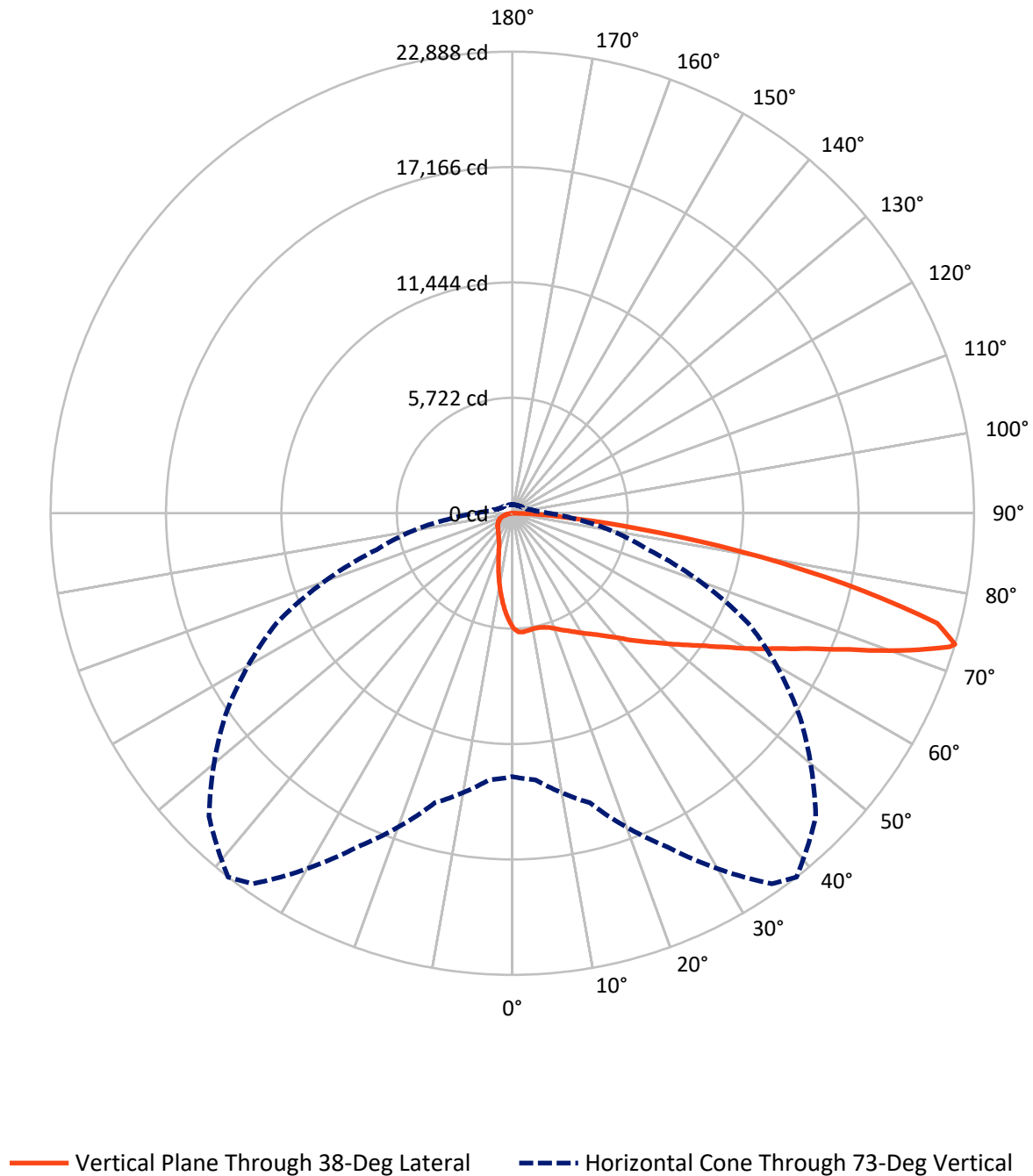


Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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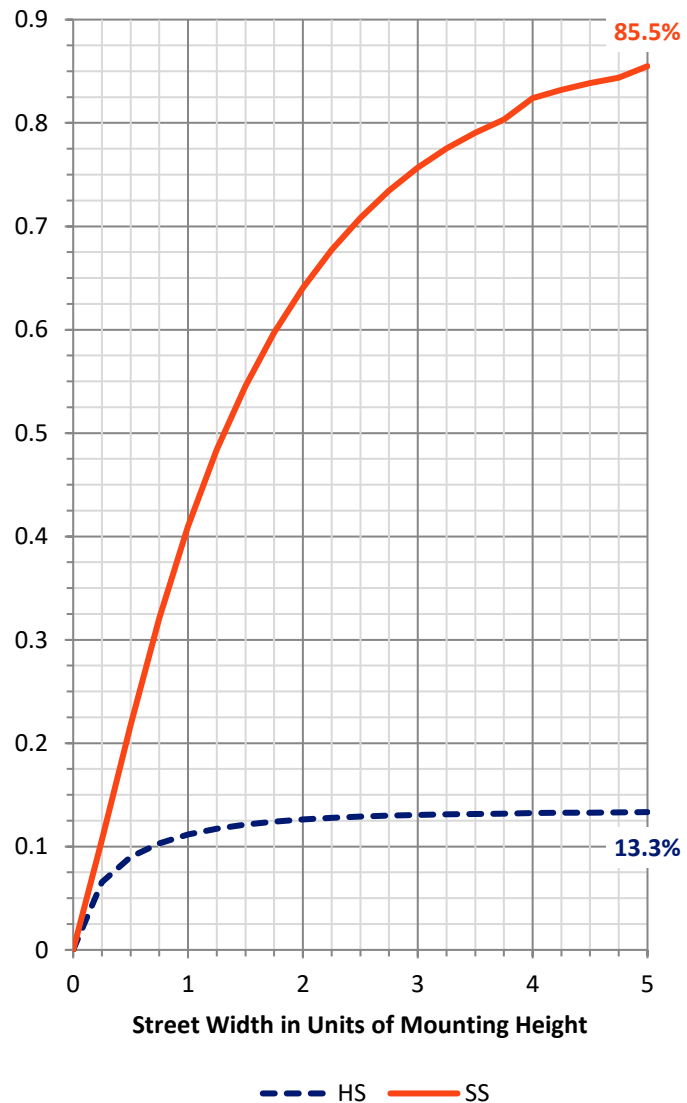
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4359.1   | 0.0    | 4359.1  |
|                    | % Fixture | 13.4     | 0.0    | 13.4    |
| <b>Street Side</b> | Lumens    | 28067.8  | 0.0    | 28067.8 |
|                    | % Fixture | 86.6     | 0.0    | 86.6    |
| <b>Total</b>       | Lumens    | 32427.0  | 0.0    | 32427.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 497.3   | 1.5       |
| 10°-20°   | 1275.2  | 3.9       |
| 20°-30°   | 1985.7  | 6.1       |
| 30°-40°   | 2912.6  | 9.0       |
| 40°-50°   | 4320.4  | 13.3      |
| 50°-60°   | 6121.2  | 18.9      |
| 60°-70°   | 7764.9  | 23.9      |
| 70°-80°   | 6463.7  | 19.9      |
| 80°-90°   | 1086.0  | 3.3       |
| 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°    | 32427.0 | 100.0     |
| 0°-180°   | 32427.0 | 100.0     |

**Coefficient of Utilization**



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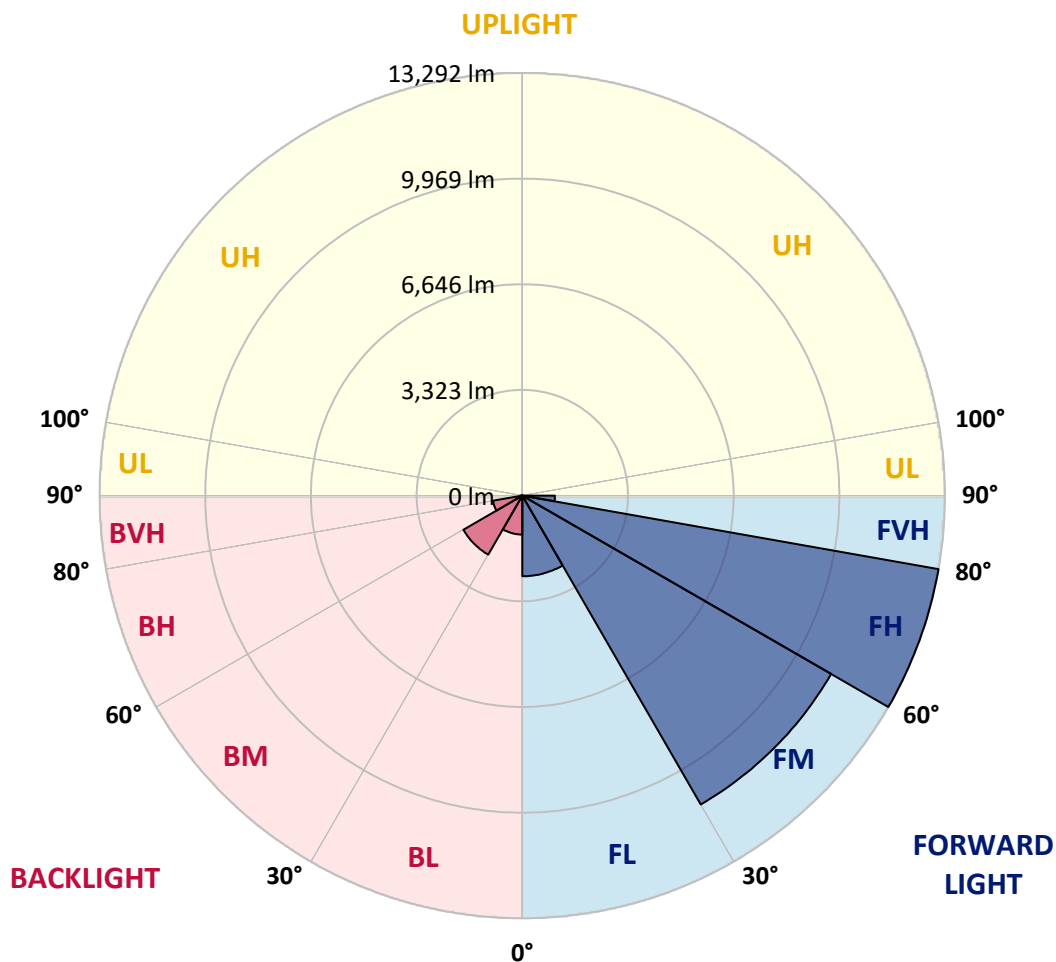
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2534.9  | 7.8       |                         |      |         |
| FM   | (30°-60°)   | 11214.1 | 34.6      |                         |      |         |
| FH   | (60°-80°)   | 13291.7 | 41.0      |                         |      | G5      |
| FVH  | (80°-90°)   | 1027.1  | 3.2       |                         |      | G5      |
| BL   | (0°-30°)    | 1223.2  | 3.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2140.1  | 6.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 937.0   | 2.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 58.9    | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 38°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5696.9  | 5696.9  | 5696.9  | 5696.9  | 5696.9  | 5696.9  | 5696.9  | 5696.9  | 5696.9  | 5696.9  | 5696.9  |
| 2.5°  | 5925.8  | 5955.1  | 5940.4  | 5920.3  | 5907.5  | 5894.6  | 5876.3  | 5823.2  | 5781.1  | 5735.3  | 5663.9  |
| 5°    | 5969.7  | 5988.0  | 5975.2  | 5949.6  | 5920.3  | 5907.5  | 5872.7  | 5803.1  | 5735.3  | 5658.4  | 5552.2  |
| 7.5°  | 5944.1  | 5951.4  | 5936.8  | 5905.6  | 5880.0  | 5856.2  | 5815.9  | 5739.0  | 5656.6  | 5563.2  | 5424.0  |
| 10°   | 5852.5  | 5880.0  | 5880.0  | 5854.4  | 5828.7  | 5815.9  | 5775.6  | 5702.4  | 5627.3  | 5521.1  | 5356.3  |
| 12.5° | 5777.4  | 5806.7  | 5830.6  | 5823.2  | 5821.4  | 5821.4  | 5790.3  | 5735.3  | 5647.4  | 5546.7  | 5350.8  |
| 15°   | 5726.2  | 5761.0  | 5812.2  | 5841.5  | 5859.9  | 5865.3  | 5852.5  | 5804.9  | 5715.2  | 5598.0  | 5372.8  |
| 17.5° | 5715.2  | 5757.3  | 5850.7  | 5914.8  | 5962.4  | 5960.6  | 5956.9  | 5891.0  | 5792.1  | 5671.2  | 5400.2  |
| 20°   | 5764.6  | 5819.6  | 5949.6  | 6050.3  | 6119.9  | 6107.1  | 6086.9  | 6000.9  | 5885.5  | 5750.0  | 5425.9  |
| 22.5° | 5913.0  | 5969.7  | 6112.6  | 6222.4  | 6290.2  | 6290.2  | 6229.8  | 6116.2  | 5993.5  | 5841.5  | 5460.6  |
| 25°   | 6125.4  | 6187.6  | 6339.6  | 6451.3  | 6482.5  | 6458.7  | 6398.2  | 6260.9  | 6119.9  | 5973.4  | 5533.9  |
| 27.5° | 6385.4  | 6460.5  | 6601.5  | 6694.9  | 6685.7  | 6667.4  | 6605.2  | 6429.4  | 6288.4  | 6154.7  | 5658.4  |
| 30°   | 6709.5  | 6764.5  | 6911.0  | 6932.9  | 6900.0  | 6896.3  | 6808.4  | 6632.6  | 6500.8  | 6398.2  | 5836.0  |
| 32.5° | 7015.3  | 7064.8  | 7182.0  | 7191.1  | 7132.5  | 7139.9  | 7057.5  | 6896.3  | 6821.2  | 6784.6  | 6134.5  |
| 35°   | 7339.5  | 7365.1  | 7465.8  | 7454.8  | 7416.4  | 7410.9  | 7377.9  | 7224.1  | 7247.9  | 7313.8  | 6557.5  |
| 37.5° | 7610.5  | 7661.8  | 7718.5  | 7727.7  | 7725.8  | 7744.2  | 7766.1  | 7692.9  | 7830.2  | 8037.2  | 7112.4  |
| 40°   | 7859.5  | 7903.5  | 7987.7  | 8017.0  | 8088.4  | 8125.1  | 8200.1  | 8202.0  | 8518.8  | 8859.4  | 7795.4  |
| 42.5° | 8028.0  | 8103.1  | 8260.6  | 8313.7  | 8487.6  | 8597.5  | 8709.2  | 8828.2  | 9287.9  | 9725.5  | 8601.2  |
| 45°   | 8174.5  | 8273.4  | 8535.2  | 8700.0  | 8936.3  | 9070.0  | 9306.2  | 9555.2  | 10216.3 | 10789.5 | 9419.7  |
| 47.5° | 8396.1  | 8484.0  | 8784.3  | 9075.4  | 9432.5  | 9586.4  | 9939.8  | 10311.5 | 11175.8 | 11803.9 | 10203.5 |
| 50°   | 8703.7  | 8756.8  | 9062.6  | 9536.9  | 9992.9  | 10190.6 | 10657.6 | 11194.1 | 12201.3 | 12805.6 | 10892.0 |
| 52.5° | 9097.4  | 9119.4  | 9362.9  | 9994.7  | 10595.3 | 10840.7 | 11459.7 | 12085.9 | 13098.6 | 13675.4 | 11437.7 |
| 55°   | 9562.5  | 9525.9  | 9716.4  | 10480.0 | 11283.9 | 11604.3 | 12269.1 | 12988.7 | 14107.6 | 14378.6 | 11835.1 |
| 57.5° | 10022.2 | 9965.4  | 10117.4 | 11069.6 | 12133.6 | 12519.9 | 13294.5 | 13919.0 | 15008.5 | 15036.0 | 12113.4 |
| 60°   | 10509.3 | 10467.2 | 10648.4 | 11761.8 | 13175.5 | 13633.3 | 14349.3 | 14884.0 | 15880.2 | 15493.8 | 12157.4 |
| 62.5° | 11009.2 | 10941.4 | 11199.6 | 12540.1 | 14349.3 | 14765.0 | 15459.0 | 15909.5 | 16735.4 | 15664.1 | 11734.4 |
| 65°   | 11494.5 | 11463.3 | 11862.5 | 13464.8 | 15686.1 | 16158.5 | 16832.4 | 17138.2 | 17420.2 | 15407.7 | 10685.1 |
| 67.5° | 12010.9 | 12073.1 | 12710.4 | 14699.1 | 17429.4 | 18022.7 | 18749.7 | 18462.2 | 17616.2 | 14193.7 | 8998.5  |
| 70°   | 12798.3 | 12838.6 | 13823.8 | 16316.0 | 19676.3 | 20392.3 | 20743.9 | 18932.8 | 16671.3 | 11888.2 | 6764.5  |
| 72.5° | 13137.1 | 13314.7 | 14818.1 | 18013.5 | 22229.0 | 22666.6 | 21414.1 | 17883.5 | 13887.8 | 8075.6  | 3554.4  |
| 73°   | 13062.0 | 13274.4 | 14863.9 | 18271.7 | 22428.6 | 22888.2 | 21271.3 | 17343.3 | 12910.0 | 6954.9  | 3047.1  |
| 75°   | 12126.2 | 12388.1 | 14268.7 | 18055.7 | 22040.4 | 21765.7 | 18974.9 | 14781.5 | 8723.9  | 3162.5  | 1388.1  |
| 77.5° | 9568.0  | 9643.1  | 11305.9 | 14580.0 | 17356.1 | 16847.1 | 14201.0 | 9238.4  | 3563.5  | 1175.6  | 787.4   |
| 80°   | 4799.6  | 5076.1  | 6372.6  | 8352.1  | 11606.2 | 11439.5 | 8963.7  | 4369.3  | 1485.1  | 690.4   | 521.9   |
| 82.5° | 2309.1  | 2505.1  | 3103.9  | 4072.6  | 6412.9  | 6260.9  | 4438.8  | 2387.9  | 943.1   | 402.9   | 307.6   |
| 85°   | 1486.9  | 1633.4  | 1975.9  | 1942.9  | 2636.9  | 2517.9  | 1994.2  | 1807.4  | 558.5   | 210.6   | 214.3   |
| 87.5° | 981.5   | 1074.9  | 1289.2  | 1031.0  | 959.6   | 868.0   | 880.8   | 1018.1  | 109.9   | 80.6    | 29.3    |
| 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°    | 5696.9 | 5696.9 | 5696.9 | 5696.9 | 5696.9 | 5696.9 | 5696.9 | 5696.9 | 5696.9 | 5696.9 | 5696.9 |
| 2.5°  | 5634.6 | 5610.8 | 5532.1 | 5455.2 | 5381.9 | 5312.3 | 5266.5 | 5206.1 | 5165.8 | 5176.8 | 5193.3 |
| 5°    | 5493.6 | 5440.5 | 5301.3 | 5165.8 | 5037.6 | 4885.7 | 4763.0 | 4664.1 | 4589.0 | 4561.5 | 4556.0 |
| 7.5°  | 5345.3 | 5255.6 | 5056.0 | 4823.4 | 4605.5 | 4416.9 | 4198.9 | 4090.9 | 3964.6 | 3920.6 | 3906.0 |
| 10°   | 5255.6 | 5134.7 | 4854.5 | 4530.4 | 4202.6 | 3889.5 | 3653.3 | 3461.0 | 3287.0 | 3254.0 | 3237.6 |
| 12.5° | 5229.9 | 5070.6 | 4693.4 | 4275.9 | 3840.0 | 3455.5 | 3105.7 | 2853.0 | 2684.5 | 2646.1 | 2589.3 |
| 15°   | 5215.3 | 5017.5 | 4543.2 | 4019.5 | 3466.5 | 2997.7 | 2629.6 | 2334.8 | 2181.0 | 2078.4 | 2080.2 |
| 17.5° | 5202.4 | 4957.1 | 4374.7 | 3739.3 | 3144.2 | 2604.0 | 2197.4 | 1931.9 | 1790.9 | 1736.0 | 1730.5 |
| 20°   | 5184.1 | 4885.7 | 4180.6 | 3444.5 | 2776.1 | 2245.1 | 1877.0 | 1679.2 | 1584.0 | 1538.2 | 1536.4 |
| 22.5° | 5176.8 | 4816.1 | 3990.2 | 3144.2 | 2450.2 | 1968.5 | 1664.6 | 1525.4 | 1465.0 | 1433.8 | 1433.8 |
| 25°   | 5195.1 | 4766.6 | 3790.6 | 2858.5 | 2160.8 | 1732.3 | 1518.1 | 1422.8 | 1388.1 | 1371.6 | 1366.1 |
| 27.5° | 5251.9 | 4744.6 | 3592.8 | 2572.8 | 1895.3 | 1571.2 | 1419.2 | 1353.3 | 1327.6 | 1314.8 | 1316.6 |
| 30°   | 5359.9 | 4742.8 | 3398.7 | 2290.8 | 1697.5 | 1448.5 | 1340.4 | 1294.7 | 1274.5 | 1267.2 | 1265.4 |
| 32.5° | 5533.9 | 4783.1 | 3208.3 | 2058.3 | 1530.9 | 1345.9 | 1267.2 | 1234.2 | 1225.1 | 1219.6 | 1217.8 |
| 35°   | 5828.7 | 4896.6 | 3019.7 | 1845.9 | 1402.7 | 1254.4 | 1197.6 | 1181.1 | 1168.3 | 1173.8 | 1175.6 |
| 37.5° | 6226.1 | 5092.6 | 2840.2 | 1679.2 | 1305.6 | 1186.6 | 1139.0 | 1124.4 | 1117.0 | 1122.5 | 1128.0 |
| 40°   | 6759.0 | 5374.6 | 2690.0 | 1545.5 | 1236.1 | 1129.9 | 1087.7 | 1074.9 | 1067.6 | 1076.7 | 1078.6 |
| 42.5° | 7346.8 | 5700.5 | 2565.5 | 1441.2 | 1179.3 | 1082.2 | 1042.0 | 1027.3 | 1021.8 | 1027.3 | 1029.1 |
| 45°   | 7951.1 | 6079.6 | 2501.4 | 1366.1 | 1131.7 | 1047.4 | 1005.3 | 988.8  | 976.0  | 972.4  | 977.9  |
| 47.5° | 8546.2 | 6409.2 | 2499.6 | 1320.3 | 1093.2 | 1016.3 | 970.5  | 952.2  | 935.7  | 926.6  | 924.8  |
| 50°   | 9031.5 | 6671.1 | 2543.5 | 1300.2 | 1060.3 | 981.5  | 935.7  | 917.4  | 895.5  | 877.1  | 880.8  |
| 52.5° | 9397.7 | 6841.4 | 2563.7 | 1291.0 | 1042.0 | 944.9  | 899.1  | 882.6  | 857.0  | 833.2  | 833.2  |
| 55°   | 9634.0 | 6881.7 | 2514.2 | 1281.8 | 1027.3 | 906.4  | 857.0  | 842.4  | 816.7  | 792.9  | 792.9  |
| 57.5° | 9714.5 | 6757.1 | 2336.6 | 1259.9 | 1012.7 | 873.5  | 814.9  | 802.1  | 781.9  | 758.1  | 754.5  |
| 60°   | 9527.8 | 6336.0 | 2025.3 | 1193.9 | 983.4  | 838.7  | 769.1  | 763.6  | 756.3  | 736.1  | 734.3  |
| 62.5° | 8808.1 | 5442.3 | 1686.5 | 1107.9 | 933.9  | 802.1  | 727.0  | 736.1  | 741.6  | 730.7  | 728.8  |
| 65°   | 7610.5 | 4418.7 | 1441.2 | 988.8  | 868.0  | 750.8  | 681.2  | 705.0  | 719.7  | 719.7  | 716.0  |
| 67.5° | 6173.0 | 3393.2 | 1214.1 | 886.3  | 785.6  | 681.2  | 629.9  | 648.2  | 659.2  | 655.6  | 664.7  |
| 70°   | 4387.6 | 2298.2 | 988.8  | 769.1  | 681.2  | 602.5  | 564.0  | 564.0  | 556.7  | 553.0  | 553.0  |
| 72.5° | 2127.9 | 1313.0 | 802.1  | 642.8  | 580.5  | 514.6  | 483.4  | 470.6  | 456.0  | 454.1  | 445.0  |
| 73°   | 1778.1 | 1177.5 | 765.4  | 618.9  | 556.7  | 501.7  | 467.0  | 446.8  | 437.7  | 430.3  | 428.5  |
| 75°   | 1082.2 | 893.6  | 639.1  | 521.9  | 474.3  | 432.2  | 401.0  | 382.7  | 373.6  | 368.1  | 366.2  |
| 77.5° | 712.3  | 666.6  | 496.3  | 399.2  | 362.6  | 336.9  | 324.1  | 305.8  | 300.3  | 293.0  | 293.0  |
| 80°   | 531.0  | 509.1  | 355.3  | 282.0  | 260.0  | 238.1  | 234.4  | 230.7  | 216.1  | 206.9  | 203.3  |
| 82.5° | 342.4  | 362.6  | 241.7  | 188.6  | 164.8  | 146.5  | 148.3  | 153.8  | 139.2  | 126.4  | 122.7  |
| 85°   | 243.6  | 261.9  | 146.5  | 86.1   | 69.6   | 60.4   | 67.8   | 60.4   | 62.3   | 49.4   | 40.3   |
| 87.5° | 40.3   | 69.6   | 25.6   | 11.0   | 5.5    | 3.7    | 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)