

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: P652569

Luminaire Tested: **GALN-SA8B-840-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652569  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-840-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32413 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

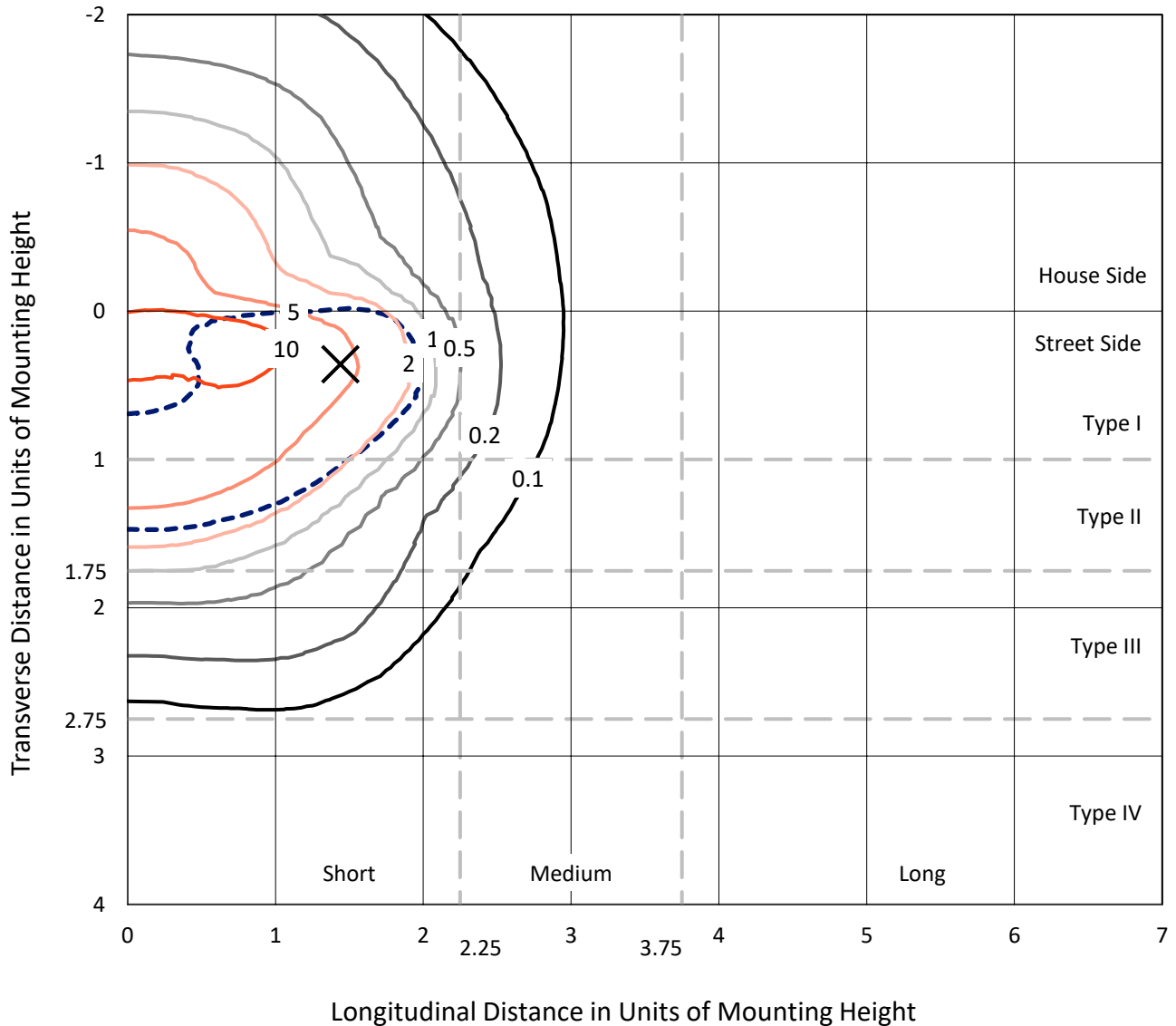
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

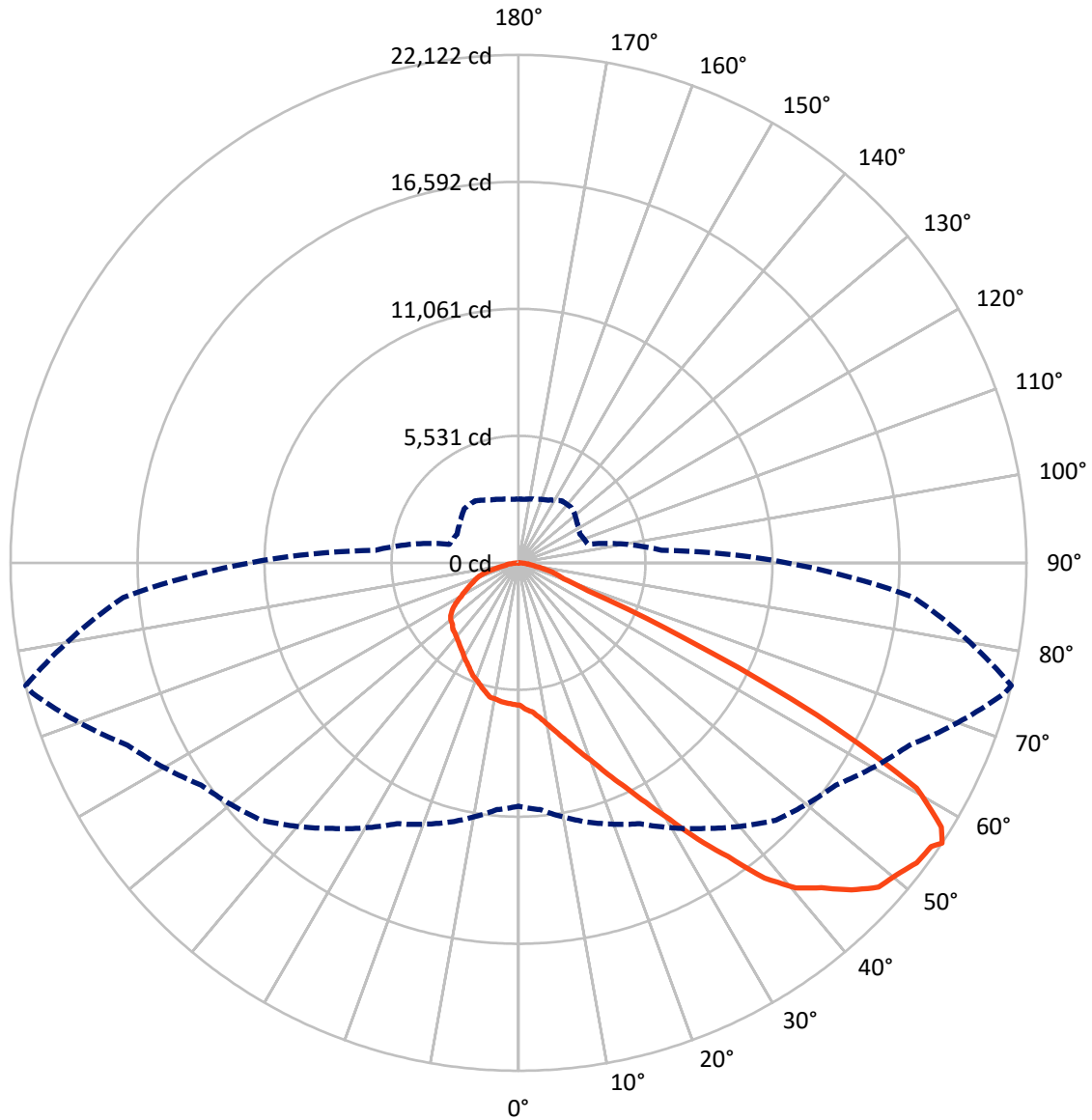
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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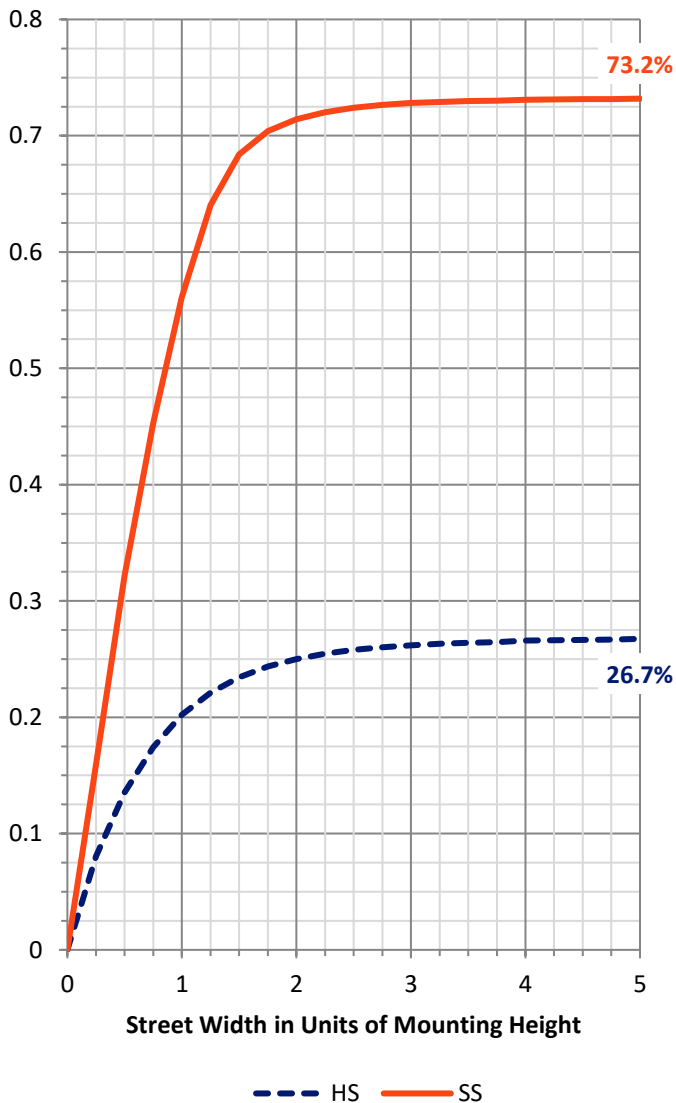
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8714.9   | 0.0    | 8714.9  |
|                    | % Fixture | 26.9     | 0.0    | 26.9    |
| <b>Street Side</b> | Lumens    | 23698.1  | 0.0    | 23698.1 |
|                    | % Fixture | 73.1     | 0.0    | 73.1    |
| <b>Total</b>       | Lumens    | 32413.0  | 0.0    | 32413.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 615.0   | 1.9       |
| 10°-20°   | 1932.0  | 6.0       |
| 20°-30°   | 3378.8  | 10.4      |
| 30°-40°   | 5290.3  | 16.3      |
| 40°-50°   | 7695.9  | 23.7      |
| 50°-60°   | 8458.2  | 26.1      |
| 60°-70°   | 3775.4  | 11.6      |
| 70°-80°   | 1090.5  | 3.4       |
| 80°-90°   | 176.9   | 0.5       |
| 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°    | 32413.0 | 100.0     |
| 0°-180°   | 32413.0 | 100.0     |

**Coefficient of Utilization**

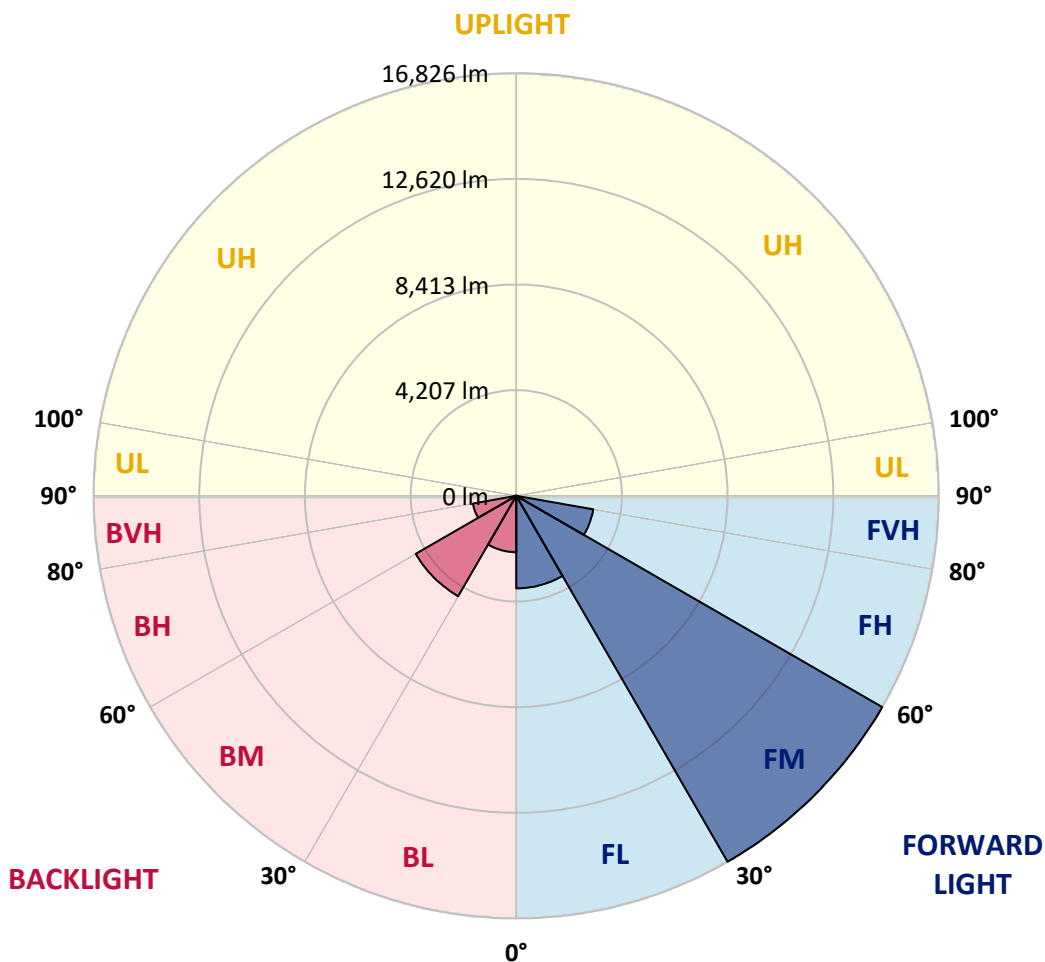


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3683.4  | 11.4      |                         |      |         |
| FM (30°-60°)   | 16826.2 | 51.9      |                         |      |         |
| FH (60°-80°)   | 3112.4  | 9.6       |                         |      | G2/5000 |
| FVH (80°-90°)  | 76.1    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 2242.5  | 6.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 4618.2  | 14.2      | B3/5000                 |      |         |
| BH (60°-80°)   | 1753.5  | 5.4       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 100.7   | 0.3       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6201.8  | 6201.8  | 6201.8  | 6201.8  | 6201.8  | 6201.8  | 6201.8  | 6201.8  | 6201.8  | 6201.8  | 6201.8  |
| 2.5°  | 6832.0  | 6722.8  | 6714.5  | 6685.0  | 6701.8  | 6626.2  | 6546.3  | 6441.3  | 6332.1  | 6399.3  | 6239.6  |
| 5°    | 7311.1  | 7164.0  | 7222.8  | 7122.0  | 7134.6  | 7033.8  | 6869.9  | 6748.0  | 6613.5  | 6533.7  | 6420.3  |
| 7.5°  | 7479.2  | 7491.7  | 7533.8  | 7516.9  | 7432.9  | 7432.9  | 7323.7  | 7109.4  | 6874.1  | 6827.9  | 6638.8  |
| 10°   | 7706.0  | 7710.2  | 7664.0  | 7676.6  | 7794.3  | 7739.6  | 7643.0  | 7550.6  | 7248.1  | 7193.4  | 6857.3  |
| 12.5° | 7785.9  | 7710.2  | 7785.9  | 7853.1  | 7991.8  | 8067.4  | 8046.4  | 7979.2  | 7655.6  | 7617.8  | 7126.2  |
| 15°   | 7798.5  | 7752.3  | 7815.2  | 7966.5  | 8088.4  | 8407.7  | 8567.4  | 8521.2  | 8092.6  | 8096.8  | 7428.7  |
| 17.5° | 7739.6  | 7802.7  | 7827.9  | 7958.1  | 8239.7  | 8538.0  | 9000.2  | 9063.2  | 8710.2  | 8655.7  | 7811.1  |
| 20°   | 7819.4  | 7773.3  | 7806.9  | 7924.5  | 8298.5  | 8764.9  | 9369.9  | 9785.9  | 9290.1  | 9252.3  | 8206.1  |
| 22.5° | 8126.2  | 8063.2  | 8054.8  | 8130.5  | 8399.3  | 8882.6  | 9760.7  | 10508.6 | 9996.0  | 10017.0 | 8697.6  |
| 25°   | 8365.7  | 8399.3  | 8369.9  | 8365.7  | 8533.8  | 9059.0  | 10277.5 | 11370.0 | 10954.0 | 10832.2 | 9277.5  |
| 27.5° | 8777.5  | 8857.3  | 8798.5  | 8878.4  | 8840.5  | 9323.7  | 10647.3 | 12323.8 | 11987.6 | 11823.8 | 9802.7  |
| 30°   | 9348.9  | 9390.9  | 9336.4  | 9336.4  | 9222.9  | 9693.5  | 10983.5 | 13319.6 | 13180.9 | 12958.2 | 10420.4 |
| 32.5° | 10101.1 | 10164.1 | 10054.8 | 9991.8  | 9975.0  | 10243.9 | 11588.5 | 14302.8 | 14538.1 | 14349.1 | 11239.7 |
| 35°   | 11096.8 | 11059.1 | 10928.8 | 10870.0 | 10643.1 | 11088.5 | 12487.7 | 15433.1 | 16050.7 | 15714.6 | 12231.3 |
| 37.5° | 11975.0 | 11916.2 | 11907.8 | 11580.1 | 11634.7 | 12000.2 | 13252.4 | 16290.3 | 17517.2 | 17420.6 | 13277.6 |
| 40°   | 12794.4 | 12849.0 | 12937.3 | 12752.3 | 12668.3 | 13071.7 | 14143.2 | 16945.7 | 18655.8 | 18618.1 | 14084.3 |
| 42.5° | 13672.6 | 13622.1 | 13777.6 | 13622.1 | 13496.1 | 14067.5 | 15109.6 | 17399.5 | 19655.9 | 19344.9 | 14928.8 |
| 45°   | 14945.7 | 14786.0 | 14840.6 | 14853.2 | 14760.8 | 14970.9 | 15508.7 | 17727.3 | 20357.6 | 20323.9 | 15546.6 |
| 47.5° | 16008.8 | 16012.9 | 15920.5 | 15849.1 | 15567.6 | 15777.7 | 15954.1 | 17933.1 | 21164.3 | 21109.7 | 15786.1 |
| 50°   | 16403.7 | 16349.0 | 16618.0 | 16773.5 | 16790.2 | 16361.7 | 16302.9 | 18046.6 | 21588.6 | 21349.2 | 16025.5 |
| 52.5° | 14983.5 | 15033.9 | 15458.3 | 16382.7 | 16916.3 | 16962.5 | 16710.4 | 18281.9 | 21761.0 | 21710.5 | 16218.9 |
| 55°   | 12059.1 | 12302.7 | 13000.3 | 14067.5 | 15332.3 | 16723.0 | 17151.6 | 18525.5 | 21853.4 | 21811.3 | 17076.0 |
| 56°   | 10601.1 | 10790.1 | 11697.7 | 12533.8 | 14122.2 | 15853.3 | 16874.3 | 18786.1 | 21924.8 | 22122.3 | 17277.7 |
| 57.5° | 8533.8  | 8752.3  | 9403.6  | 10353.1 | 12227.1 | 14197.8 | 16109.6 | 18466.8 | 21647.5 | 21723.1 | 17424.8 |
| 60°   | 5336.2  | 5357.3  | 6138.8  | 6764.8  | 8084.2  | 10008.6 | 12294.4 | 16067.6 | 20034.0 | 19924.8 | 15651.6 |
| 62.5° | 3500.1  | 3504.3  | 4214.3  | 4727.0  | 5327.8  | 5769.0  | 7235.5  | 10655.7 | 14781.8 | 14588.6 | 11143.1 |
| 65°   | 2458.1  | 2512.7  | 3063.1  | 3748.0  | 3991.6  | 3760.6  | 3714.4  | 5617.8  | 8256.4  | 7979.2  | 5987.5  |
| 67.5° | 1798.4  | 1802.6  | 2290.0  | 3025.2  | 3378.2  | 2861.4  | 2323.6  | 2743.8  | 3269.0  | 3260.6  | 2773.2  |
| 70°   | 1189.1  | 1239.5  | 1613.5  | 2260.5  | 2664.0  | 2298.4  | 1899.2  | 1962.2  | 2079.9  | 2079.9  | 2063.1  |
| 72.5° | 693.3   | 739.5   | 987.4   | 1432.8  | 1495.8  | 1437.0  | 1504.2  | 1680.7  | 1756.3  | 1752.1  | 1731.1  |
| 75°   | 394.9   | 416.0   | 470.6   | 596.7   | 743.7   | 878.2   | 1105.1  | 1273.1  | 1348.8  | 1395.0  | 1340.4  |
| 77.5° | 231.1   | 243.7   | 277.3   | 340.4   | 386.5   | 474.8   | 600.9   | 718.5   | 819.4   | 806.8   | 815.2   |
| 80°   | 121.9   | 121.9   | 155.5   | 201.7   | 269.0   | 336.1   | 399.1   | 466.4   | 521.0   | 533.6   | 546.2   |
| 82.5° | 71.4    | 75.6    | 100.8   | 147.1   | 193.3   | 239.5   | 306.7   | 353.0   | 403.3   | 407.5   | 416.0   |
| 85°   | 37.8    | 42.0    | 63.0    | 96.6    | 130.3   | 147.1   | 151.3   | 142.9   | 155.5   | 147.1   | 168.0   |
| 87.5° | 12.6    | 12.6    | 21.0    | 16.8    | 16.8    | 21.0    | 25.2    | 25.2    | 33.6    | 33.6    | 33.6    |
| 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°    | 6201.8  | 6201.8 | 6201.8 | 6201.8 | 6201.8 | 6201.8 | 6201.8 | 6201.8 | 6201.8 | 6201.8 | 6201.8 |
| 2.5°  | 6235.4  | 6235.4 | 6164.0 | 6029.5 | 6008.5 | 5953.9 | 5903.5 | 5899.3 | 5861.4 | 5827.9 | 5811.1 |
| 5°    | 6353.1  | 6222.8 | 6117.8 | 5995.9 | 5853.0 | 5785.8 | 5710.2 | 5626.2 | 5592.6 | 5626.2 | 5622.0 |
| 7.5°  | 6487.6  | 6378.3 | 6063.2 | 5836.3 | 5672.4 | 5605.2 | 5521.1 | 5432.9 | 5441.3 | 5441.3 | 5382.5 |
| 10°   | 6617.7  | 6470.7 | 5966.5 | 5676.6 | 5437.1 | 5386.7 | 5340.4 | 5374.1 | 5416.0 | 5424.4 | 5386.7 |
| 12.5° | 6836.2  | 6504.3 | 5920.3 | 5517.0 | 5365.7 | 5256.4 | 5285.9 | 5378.3 | 5466.5 | 5441.3 | 5470.7 |
| 15°   | 7000.1  | 6533.7 | 5710.2 | 5353.0 | 5164.0 | 5214.4 | 5319.4 | 5382.5 | 5529.5 | 5512.8 | 5542.1 |
| 17.5° | 7159.8  | 6550.5 | 5504.3 | 5134.6 | 5054.7 | 5193.3 | 5273.2 | 5453.9 | 5500.1 | 5601.0 | 5638.7 |
| 20°   | 7487.5  | 6584.2 | 5294.3 | 5000.1 | 4974.9 | 5134.6 | 5273.2 | 5357.3 | 5458.1 | 5546.3 | 5546.3 |
| 22.5° | 7655.6  | 6567.4 | 5155.6 | 4823.6 | 4903.5 | 5004.3 | 5130.4 | 5273.2 | 5273.2 | 5357.3 | 5361.5 |
| 25°   | 7865.7  | 6500.2 | 4937.1 | 4739.6 | 4798.4 | 4895.0 | 5037.9 | 4987.5 | 5042.1 | 5042.1 | 5109.3 |
| 27.5° | 8105.2  | 6357.3 | 4748.0 | 4588.3 | 4706.0 | 4811.0 | 4832.0 | 4798.4 | 4735.4 | 4727.0 | 4701.8 |
| 30°   | 8298.5  | 6180.8 | 4609.4 | 4537.9 | 4634.6 | 4693.4 | 4626.2 | 4554.7 | 4445.4 | 4437.0 | 4378.2 |
| 32.5° | 8563.2  | 5962.3 | 4437.0 | 4411.9 | 4521.1 | 4525.3 | 4504.3 | 4395.1 | 4235.4 | 4168.2 | 4100.9 |
| 35°   | 9008.6  | 5836.3 | 4306.8 | 4344.6 | 4378.2 | 4365.6 | 4327.8 | 4210.1 | 4050.5 | 4021.1 | 3995.8 |
| 37.5° | 9336.4  | 5743.8 | 4172.4 | 4218.5 | 4248.0 | 4264.8 | 4151.3 | 4021.1 | 4025.3 | 3966.5 | 3949.7 |
| 40°   | 9706.1  | 5685.0 | 4063.1 | 4084.1 | 4088.4 | 4142.9 | 4004.3 | 3941.3 | 3970.7 | 3932.9 | 3958.1 |
| 42.5° | 10180.9 | 5701.8 | 3949.7 | 3932.9 | 4012.7 | 3991.6 | 3924.4 | 3840.4 | 3857.2 | 3743.8 | 3760.6 |
| 45°   | 10433.0 | 5815.3 | 3882.4 | 3806.8 | 3895.0 | 3890.8 | 3802.6 | 3722.8 | 3621.9 | 3403.4 | 3411.9 |
| 47.5° | 10601.1 | 5844.7 | 3722.8 | 3672.3 | 3764.8 | 3819.4 | 3718.6 | 3533.7 | 3390.8 | 3235.3 | 3197.6 |
| 50°   | 10773.3 | 5899.3 | 3647.2 | 3542.1 | 3579.9 | 3710.2 | 3584.1 | 3407.6 | 3269.0 | 3130.3 | 3151.3 |
| 52.5° | 10924.6 | 6004.3 | 3500.1 | 3344.6 | 3411.9 | 3554.7 | 3487.5 | 3273.2 | 3121.9 | 3008.4 | 2974.9 |
| 55°   | 11596.9 | 6239.6 | 3252.1 | 3050.5 | 3210.2 | 3390.8 | 3353.0 | 3092.5 | 2928.6 | 2869.8 | 2861.4 |
| 56°   | 11701.9 | 6248.0 | 3121.9 | 2949.6 | 3096.7 | 3336.2 | 3290.0 | 3012.6 | 2865.6 | 2773.2 | 2777.4 |
| 57.5° | 11718.7 | 6147.2 | 2937.0 | 2857.2 | 2983.3 | 3256.4 | 3197.6 | 2949.6 | 2748.0 | 2664.0 | 2638.7 |
| 60°   | 10311.2 | 4798.4 | 2705.9 | 2655.5 | 2802.5 | 3012.6 | 2991.7 | 2777.4 | 2550.5 | 2453.9 | 2500.0 |
| 62.5° | 7029.6  | 3516.9 | 2525.3 | 2516.9 | 2592.5 | 2798.3 | 2743.8 | 2550.5 | 2361.4 | 2298.4 | 2268.9 |
| 65°   | 4092.6  | 2668.2 | 2348.8 | 2315.2 | 2378.2 | 2487.4 | 2525.3 | 2323.6 | 2126.1 | 2084.1 | 2071.5 |
| 67.5° | 2416.0  | 2205.9 | 2121.9 | 2067.3 | 2046.2 | 2113.5 | 2142.9 | 2025.2 | 1827.7 | 1769.0 | 1819.3 |
| 70°   | 2021.1  | 1962.2 | 1966.4 | 1874.0 | 1823.5 | 1777.4 | 1752.1 | 1647.1 | 1483.2 | 1407.6 | 1386.6 |
| 72.5° | 1743.7  | 1718.5 | 1701.7 | 1617.7 | 1571.5 | 1466.5 | 1357.2 | 1252.2 | 1130.3 | 1067.2 | 1071.4 |
| 75°   | 1332.0  | 1323.6 | 1332.0 | 1289.9 | 1210.1 | 1126.1 | 1025.3 | 890.8  | 798.4  | 718.5  | 735.3  |
| 77.5° | 794.2   | 819.4  | 831.9  | 815.2  | 781.5  | 705.9  | 642.9  | 554.6  | 466.4  | 403.3  | 394.9  |
| 80°   | 546.2   | 567.3  | 588.3  | 567.3  | 533.6  | 479.0  | 411.8  | 344.6  | 281.5  | 247.9  | 239.5  |
| 82.5° | 416.0   | 437.0  | 449.6  | 428.6  | 386.5  | 327.7  | 281.5  | 235.3  | 184.9  | 151.3  | 142.9  |
| 85°   | 151.3   | 172.2  | 168.0  | 201.7  | 218.5  | 210.1  | 180.6  | 138.7  | 105.0  | 75.6   | 71.4   |
| 87.5° | 42.0    | 37.8   | 42.0   | 42.0   | 42.0   | 37.8   | 33.6   | 33.6   | 33.6   | 21.0   | 16.8   |
| 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)