

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: P651068

Luminaire Tested: **GALN-SA8C-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651068  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-840-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27921.2 lumens  
Efficiency: N/A  
Efficacy: 65.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

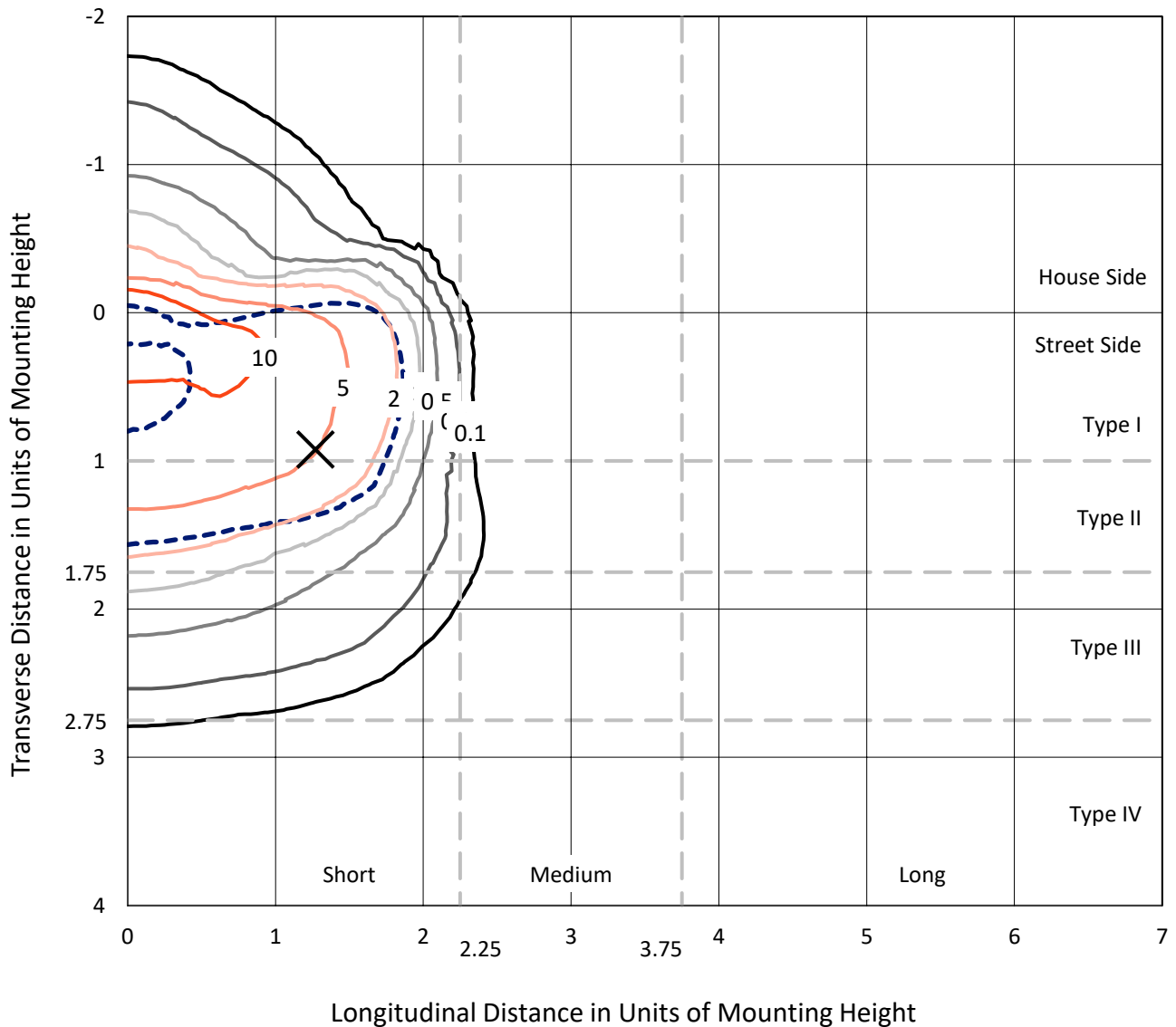
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

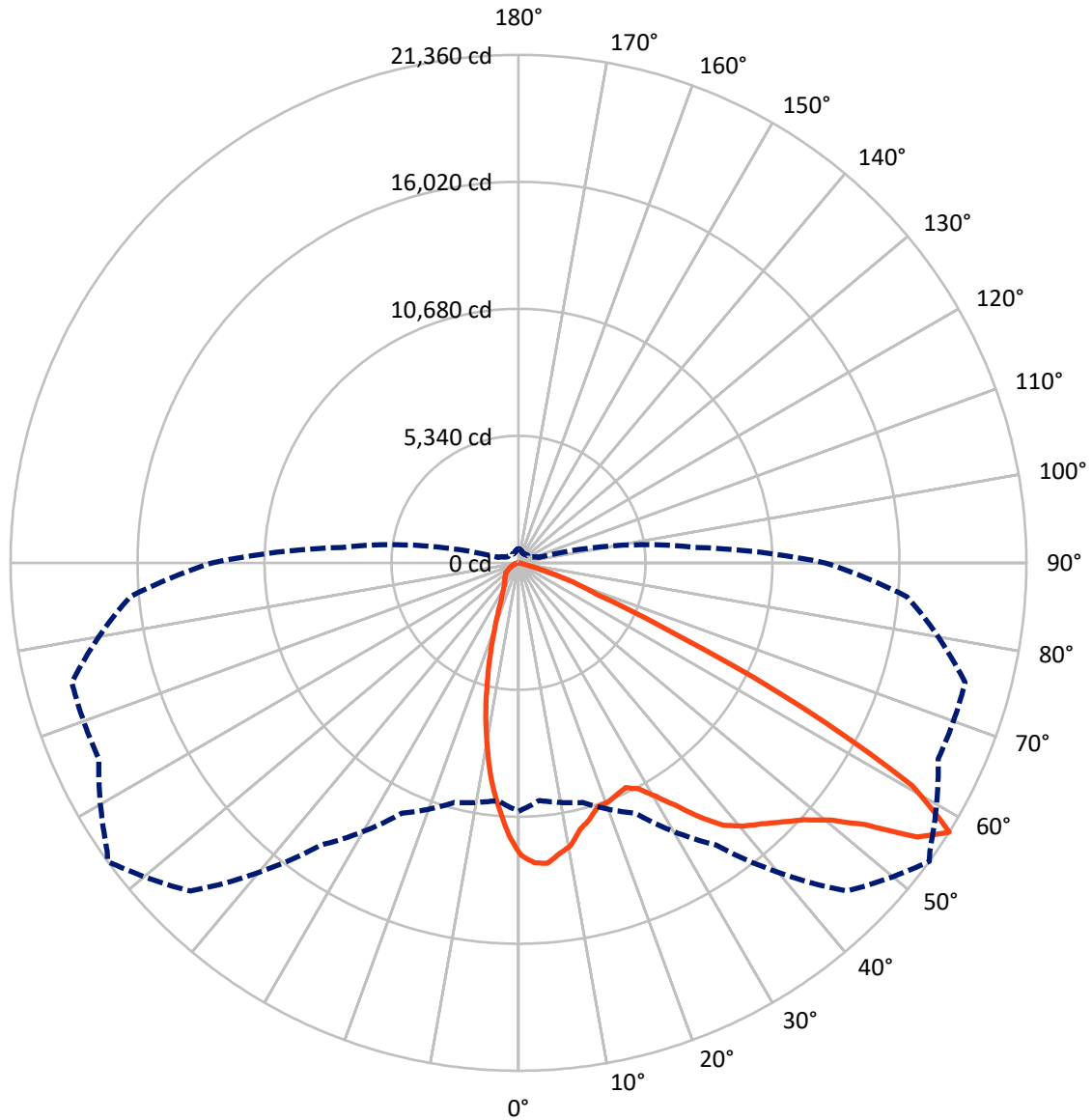
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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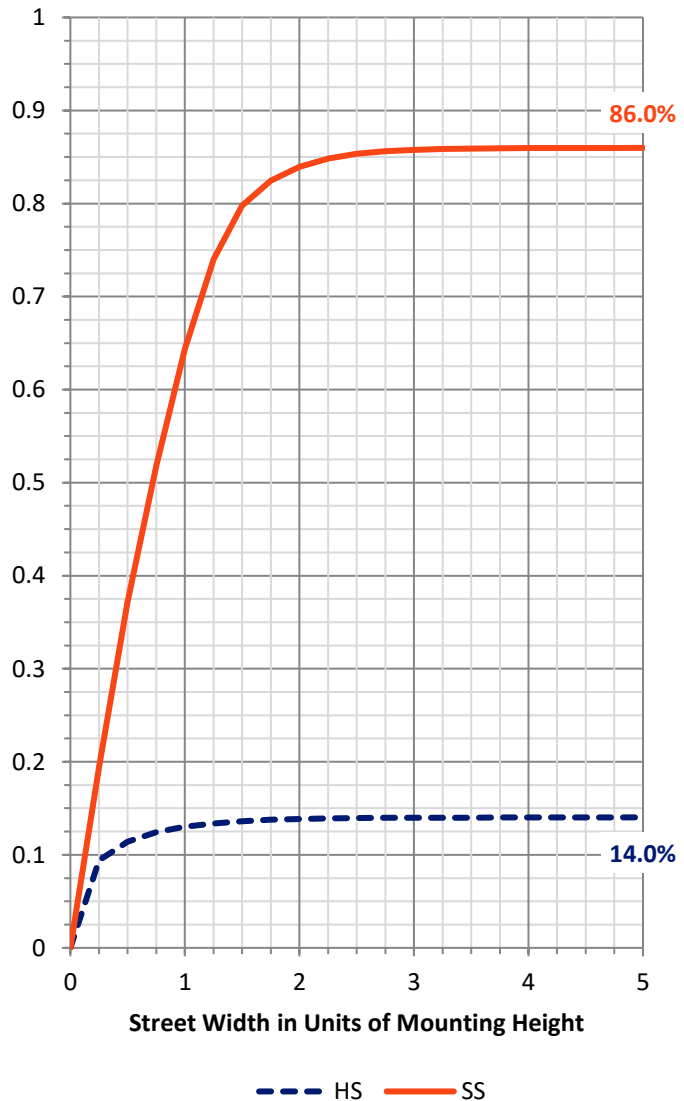
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3945.7   | 0.0    | 3945.7  |
|                    | % Fixture | 14.1     | 0.0    | 14.1    |
| <b>Street Side</b> | Lumens    | 23975.5  | 0.0    | 23975.5 |
|                    | % Fixture | 85.9     | 0.0    | 85.9    |
| <b>Total</b>       | Lumens    | 27921.2  | 0.0    | 27921.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1029.3  | 3.7       |
| 10°-20°   | 2197.4  | 7.9       |
| 20°-30°   | 2912.1  | 10.4      |
| 30°-40°   | 4232.0  | 15.2      |
| 40°-50°   | 6275.5  | 22.5      |
| 50°-60°   | 7847.3  | 28.1      |
| 60°-70°   | 3095.4  | 11.1      |
| 70°-80°   | 308.2   | 1.1       |
| 80°-90°   | 24.0    | 0.1       |
| 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°    | 27921.2 | 100.0     |
| 0°-180°   | 27921.2 | 100.0     |

**Coefficient of Utilization**

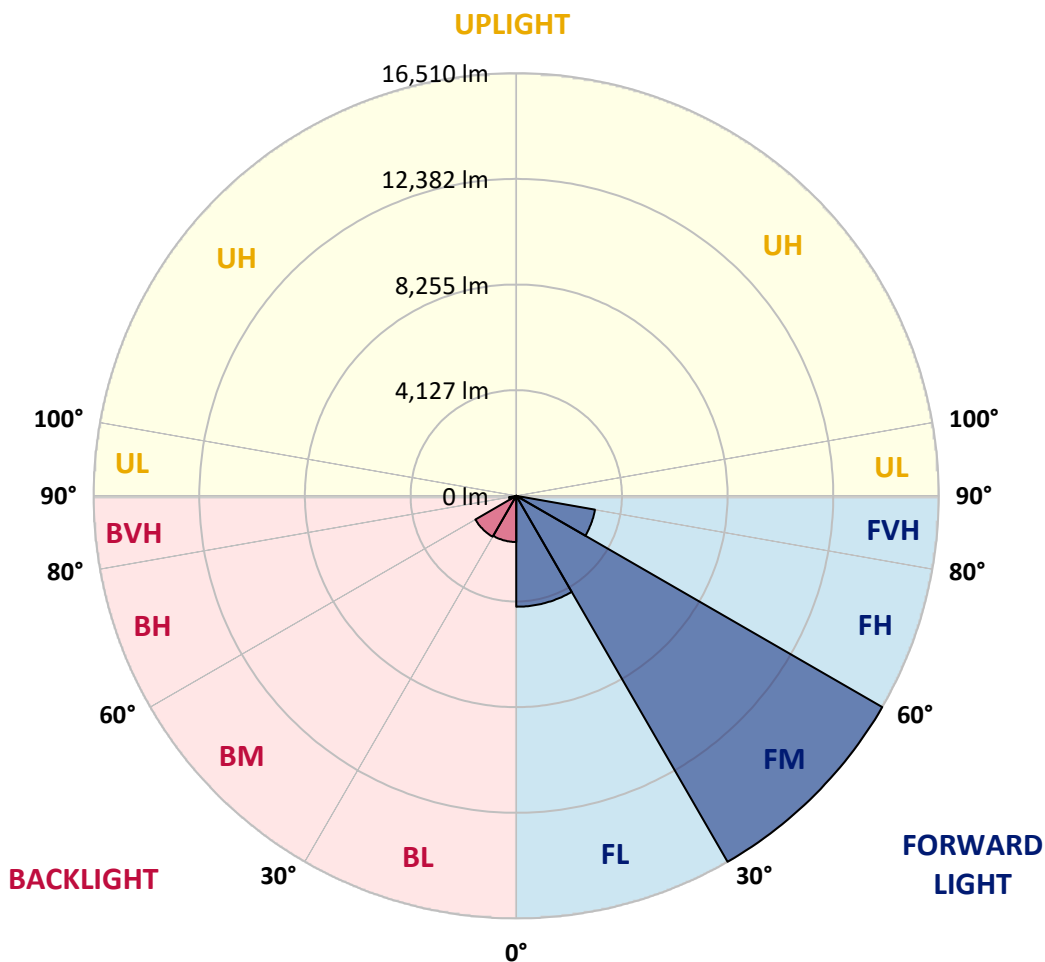


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4334.2  | 15.5      |                         |      |         |
| FM (30°-60°)   | 16509.7 | 59.1      |                         |      |         |
| FH (60°-80°)   | 3120.7  | 11.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 10.9    | 0.0       |                         |      | G1/100  |
| BL (0°-30°)    | 1804.6  | 6.5       | B3/2500                 |      |         |
| BM (30°-60°)   | 1845.1  | 6.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 282.9   | 1.0       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 13.1    | 0.0       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 54°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12299.6 | 12299.6 | 12299.6 | 12299.6 | 12299.6 | 12299.6 | 12299.6 | 12299.6 | 12299.6 | 12299.6 | 12299.6 |
| 2.5°  | 13016.2 | 12881.2 | 12891.5 | 12844.8 | 12782.5 | 12829.2 | 12626.8 | 12673.4 | 12668.3 | 12393.1 | 12211.4 |
| 5°    | 12689.1 | 12834.4 | 12683.9 | 12808.5 | 12689.1 | 12818.9 | 12694.2 | 12600.8 | 12450.2 | 12247.7 | 11910.2 |
| 7.5°  | 12133.5 | 11993.3 | 12034.9 | 12190.6 | 12216.6 | 12507.4 | 12351.6 | 12471.0 | 12408.7 | 12008.9 | 11546.8 |
| 10°   | 11017.3 | 10986.1 | 11193.8 | 11401.4 | 11655.8 | 11967.3 | 12086.8 | 12019.3 | 11972.6 | 11822.0 | 11204.1 |
| 12.5° | 10160.6 | 10248.8 | 10243.6 | 10586.3 | 11017.3 | 11193.8 | 11505.3 | 11495.0 | 11754.5 | 11474.2 | 10882.3 |
| 15°   | 9345.4  | 9392.2  | 9610.3  | 9823.1  | 10300.7 | 10804.4 | 11188.6 | 11240.6 | 11552.1 | 11354.8 | 10633.0 |
| 17.5° | 8847.1  | 8779.5  | 8950.8  | 9205.2  | 9693.3  | 10352.7 | 10778.4 | 10903.1 | 11328.8 | 11287.2 | 10347.5 |
| 20°   | 8353.8  | 8353.8  | 8494.0  | 8795.1  | 9241.6  | 9984.1  | 10742.1 | 10705.8 | 11328.8 | 11209.4 | 10041.2 |
| 22.5° | 8187.6  | 8270.7  | 8307.1  | 8535.6  | 9065.1  | 9703.7  | 10586.3 | 10653.8 | 11417.1 | 11173.0 | 9906.2  |
| 25°   | 8416.1  | 8307.1  | 8317.5  | 8499.1  | 8997.6  | 9568.7  | 10472.1 | 10622.7 | 11578.0 | 11354.8 | 9797.1  |
| 27.5° | 8452.5  | 8561.5  | 8592.7  | 8717.2  | 9049.5  | 9610.3  | 10757.7 | 11064.0 | 11977.8 | 11780.5 | 9828.3  |
| 30°   | 8769.2  | 8878.2  | 8873.0  | 9085.8  | 9314.3  | 9947.7  | 11396.3 | 11458.5 | 12803.3 | 12315.3 | 10020.4 |
| 32.5° | 9153.4  | 9267.6  | 9303.9  | 9553.2  | 9734.8  | 10565.6 | 12175.1 | 12336.0 | 13597.6 | 13156.4 | 10524.0 |
| 35°   | 9631.0  | 9589.5  | 9755.6  | 10004.9 | 10394.3 | 11469.0 | 13125.2 | 13395.2 | 14454.4 | 14246.6 | 11043.3 |
| 37.5° | 10228.1 | 10176.2 | 10337.2 | 10742.1 | 11271.7 | 12538.5 | 14002.6 | 14179.2 | 15077.4 | 15259.0 | 12003.8 |
| 40°   | 10648.7 | 10669.4 | 11157.5 | 11702.6 | 12263.3 | 13556.1 | 14558.1 | 14729.4 | 15513.5 | 16204.0 | 12730.6 |
| 42.5° | 11349.5 | 11479.3 | 12066.0 | 12730.6 | 13317.3 | 14319.3 | 15009.8 | 15176.0 | 15715.9 | 16962.0 | 13711.8 |
| 45°   | 12367.2 | 12310.1 | 12959.1 | 13701.5 | 14350.5 | 15113.7 | 15544.6 | 15487.5 | 15835.4 | 17714.8 | 14329.7 |
| 47.5° | 13675.5 | 13685.9 | 14116.9 | 14750.2 | 15425.2 | 15804.2 | 16141.6 | 15939.2 | 16084.5 | 18509.2 | 15155.2 |
| 50°   | 14568.6 | 14646.4 | 14994.3 | 15643.3 | 15980.8 | 16562.2 | 16993.2 | 16868.5 | 16821.9 | 18986.8 | 15674.4 |
| 52.5° | 14797.0 | 15030.6 | 15217.6 | 16027.4 | 16816.6 | 17735.6 | 18285.9 | 18550.8 | 17720.0 | 19147.8 | 16333.8 |
| 55°   | 13073.3 | 13280.9 | 13940.3 | 15051.4 | 17133.4 | 19594.3 | 20352.4 | 20357.5 | 18893.4 | 19864.3 | 16795.9 |
| 57.5° | 10451.4 | 10030.8 | 10435.8 | 11614.3 | 14485.5 | 19516.4 | 21359.5 | 21115.6 | 19480.1 | 19443.8 | 16396.1 |
| 60°   | 7227.1  | 7123.4  | 7149.3  | 7616.5  | 10025.6 | 15523.9 | 19033.6 | 19350.3 | 17938.1 | 16853.0 | 12979.8 |
| 62.5° | 5726.7  | 5638.4  | 5524.2  | 5472.3  | 6225.1  | 9672.6  | 13426.3 | 13872.8 | 12543.7 | 10929.0 | 7694.4  |
| 65°   | 4485.8  | 4433.9  | 4449.5  | 4657.1  | 4652.0  | 5487.9  | 7341.3  | 7159.7  | 5731.9  | 4236.6  | 2419.5  |
| 67.5° | 3026.9  | 3104.8  | 3167.0  | 3795.3  | 4117.2  | 3821.3  | 3546.1  | 3442.2  | 1863.9  | 784.0   | 534.8   |
| 70°   | 1702.9  | 1713.4  | 1780.8  | 2372.7  | 3125.6  | 2964.6  | 2445.4  | 2445.4  | 929.4   | 285.5   | 306.3   |
| 72.5° | 929.4   | 898.2   | 835.9   | 1022.8  | 1391.4  | 1412.2  | 1090.3  | 950.2   | 275.2   | 186.9   | 171.3   |
| 75°   | 451.7   | 446.5   | 384.2   | 316.7   | 301.2   | 249.2   | 192.1   | 176.5   | 124.6   | 119.4   | 103.9   |
| 77.5° | 93.4    | 88.2    | 46.8    | 46.8    | 51.9    | 57.1    | 72.7    | 72.7    | 88.2    | 88.2    | 72.7    |
| 80°   | 0.0     | 0.0     | 5.2     | 20.8    | 36.3    | 51.9    | 62.3    | 62.3    | 72.7    | 72.7    | 57.1    |
| 82.5° | 0.0     | 0.0     | 5.2     | 15.6    | 31.1    | 46.8    | 57.1    | 62.3    | 72.7    | 77.9    | 62.3    |
| 85°   | 0.0     | 0.0     | 0.0     | 10.3    | 26.0    | 36.3    | 31.1    | 31.1    | 26.0    | 20.8    | 10.3    |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 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     |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12299.6 | 12299.6 | 12299.6 | 12299.6 | 12299.6 | 12299.6 | 12299.6 | 12299.6 | 12299.6 | 12299.6 | 12299.6 |
| 2.5°  | 12118.0 | 12107.5 | 11868.7 | 11733.7 | 11489.7 | 11276.9 | 11105.5 | 10980.9 | 10980.9 | 10903.1 | 10830.3 |
| 5°    | 11775.3 | 11687.0 | 11178.2 | 10851.1 | 10389.0 | 10046.3 | 9812.7  | 9631.0  | 9345.4  | 9423.3  | 9117.0  |
| 7.5°  | 11349.5 | 11126.3 | 10451.4 | 9952.9  | 9314.3  | 8826.3  | 8327.8  | 7886.6  | 7460.8  | 7268.7  | 7372.5  |
| 10°   | 10892.6 | 10503.2 | 9594.6  | 8805.5  | 8011.1  | 7118.1  | 6536.7  | 5830.6  | 5394.4  | 5368.4  | 5254.2  |
| 12.5° | 10409.8 | 9968.5  | 8862.6  | 7772.3  | 6728.8  | 5654.0  | 4766.2  | 4106.8  | 3810.9  | 3483.8  | 3546.1  |
| 15°   | 10046.3 | 9392.2  | 8047.4  | 6733.9  | 5347.7  | 4262.6  | 3369.6  | 2860.7  | 2580.4  | 2502.5  | 2476.6  |
| 17.5° | 9651.8  | 8950.8  | 7216.8  | 5628.1  | 4195.1  | 3068.4  | 2424.6  | 2180.6  | 2071.6  | 2071.6  | 2056.0  |
| 20°   | 9241.6  | 8452.5  | 6391.3  | 4600.0  | 3146.3  | 2289.6  | 1941.8  | 1863.9  | 1858.7  | 1853.5  | 1853.5  |
| 22.5° | 8971.6  | 7881.3  | 5643.6  | 3655.2  | 2372.7  | 1832.7  | 1687.4  | 1656.2  | 1677.0  | 1739.3  | 1739.3  |
| 25°   | 8686.1  | 7331.0  | 4818.1  | 2819.2  | 1837.9  | 1573.2  | 1490.1  | 1510.9  | 1562.7  | 1619.9  | 1599.1  |
| 27.5° | 8395.4  | 6972.7  | 4039.3  | 2211.7  | 1505.6  | 1375.9  | 1344.7  | 1391.4  | 1448.5  | 1500.4  | 1484.9  |
| 30°   | 8327.8  | 6588.6  | 3302.1  | 1677.0  | 1292.8  | 1199.4  | 1220.1  | 1261.7  | 1318.8  | 1339.5  | 1360.3  |
| 32.5° | 8431.7  | 6287.4  | 2705.0  | 1375.9  | 1126.7  | 1100.7  | 1100.7  | 1121.5  | 1157.8  | 1204.6  | 1188.9  |
| 35°   | 8727.6  | 6116.1  | 2139.1  | 1194.1  | 1033.2  | 1007.3  | 1002.1  | 1022.8  | 1043.6  | 1059.2  | 1043.6  |
| 37.5° | 9179.3  | 5981.1  | 1749.7  | 1059.2  | 970.9   | 929.4   | 919.0   | 913.7   | 934.5   | 939.7   | 950.2   |
| 40°   | 9755.6  | 6053.8  | 1484.9  | 976.1   | 908.6   | 861.9   | 830.7   | 830.7   | 830.7   | 846.3   | 851.5   |
| 42.5° | 10378.6 | 6152.4  | 1282.4  | 929.4   | 851.5   | 794.3   | 763.2   | 752.9   | 763.2   | 784.0   | 778.8   |
| 45°   | 11032.8 | 6344.5  | 1152.6  | 856.6   | 799.5   | 726.9   | 685.3   | 675.0   | 700.9   | 742.4   | 737.2   |
| 47.5° | 11645.5 | 6619.7  | 1053.9  | 810.0   | 747.6   | 680.1   | 628.2   | 617.8   | 664.6   | 721.7   | 726.9   |
| 50°   | 12258.2 | 7097.4  | 1017.6  | 773.6   | 711.3   | 633.4   | 586.7   | 576.3   | 628.2   | 700.9   | 716.4   |
| 52.5° | 12964.3 | 7611.4  | 991.6   | 726.9   | 669.8   | 597.1   | 545.1   | 534.8   | 591.9   | 685.3   | 690.5   |
| 55°   | 13426.3 | 8047.4  | 970.9   | 643.8   | 591.9   | 539.9   | 498.5   | 493.2   | 555.6   | 638.6   | 659.3   |
| 57.5° | 12886.4 | 7440.0  | 898.2   | 560.7   | 503.6   | 477.7   | 441.3   | 441.3   | 493.2   | 571.1   | 586.7   |
| 60°   | 9771.2  | 4896.0  | 638.6   | 451.7   | 425.7   | 410.2   | 394.6   | 394.6   | 436.1   | 493.2   | 498.5   |
| 62.5° | 5721.5  | 2637.5  | 410.2   | 363.4   | 363.4   | 347.8   | 321.9   | 321.9   | 363.4   | 394.6   | 399.8   |
| 65°   | 1697.7  | 846.3   | 332.3   | 311.5   | 306.3   | 280.4   | 254.4   | 249.2   | 280.4   | 295.9   | 290.7   |
| 67.5° | 488.0   | 389.4   | 275.2   | 259.6   | 254.4   | 212.9   | 197.3   | 192.1   | 197.3   | 186.9   | 181.7   |
| 70°   | 290.7   | 264.7   | 212.9   | 218.1   | 192.1   | 155.8   | 140.2   | 135.0   | 124.6   | 109.0   | 98.6    |
| 72.5° | 161.0   | 161.0   | 155.8   | 166.2   | 135.0   | 103.9   | 88.2    | 72.7    | 57.1    | 46.8    | 41.5    |
| 75°   | 98.6    | 103.9   | 109.0   | 114.2   | 88.2    | 67.5    | 57.1    | 36.3    | 20.8    | 10.3    | 10.3    |
| 77.5° | 67.5    | 72.7    | 77.9    | 83.1    | 72.7    | 62.3    | 46.8    | 26.0    | 5.2     | 0.0     | 0.0     |
| 80°   | 51.9    | 57.1    | 67.5    | 72.7    | 77.9    | 83.1    | 62.3    | 26.0    | 5.2     | 0.0     | 0.0     |
| 82.5° | 57.1    | 62.3    | 77.9    | 72.7    | 72.7    | 72.7    | 57.1    | 26.0    | 5.2     | 0.0     | 0.0     |
| 85°   | 10.3    | 15.6    | 26.0    | 26.0    | 36.3    | 46.8    | 36.3    | 10.3    | 0.0     | 0.0     | 0.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 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)