

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: P533909

Luminaire Tested: **GALN-SA9B-760-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533909  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-760-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34117 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

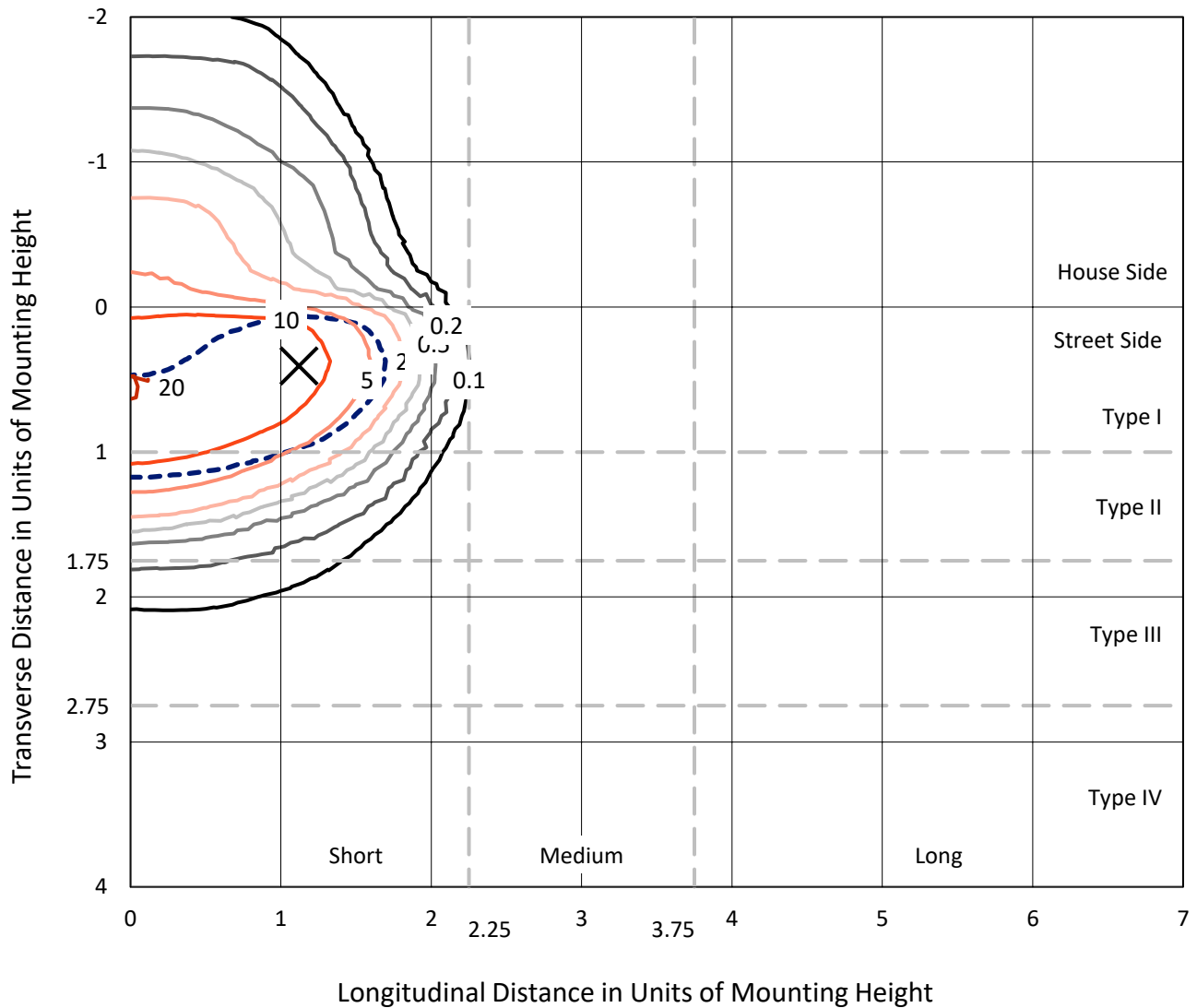
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

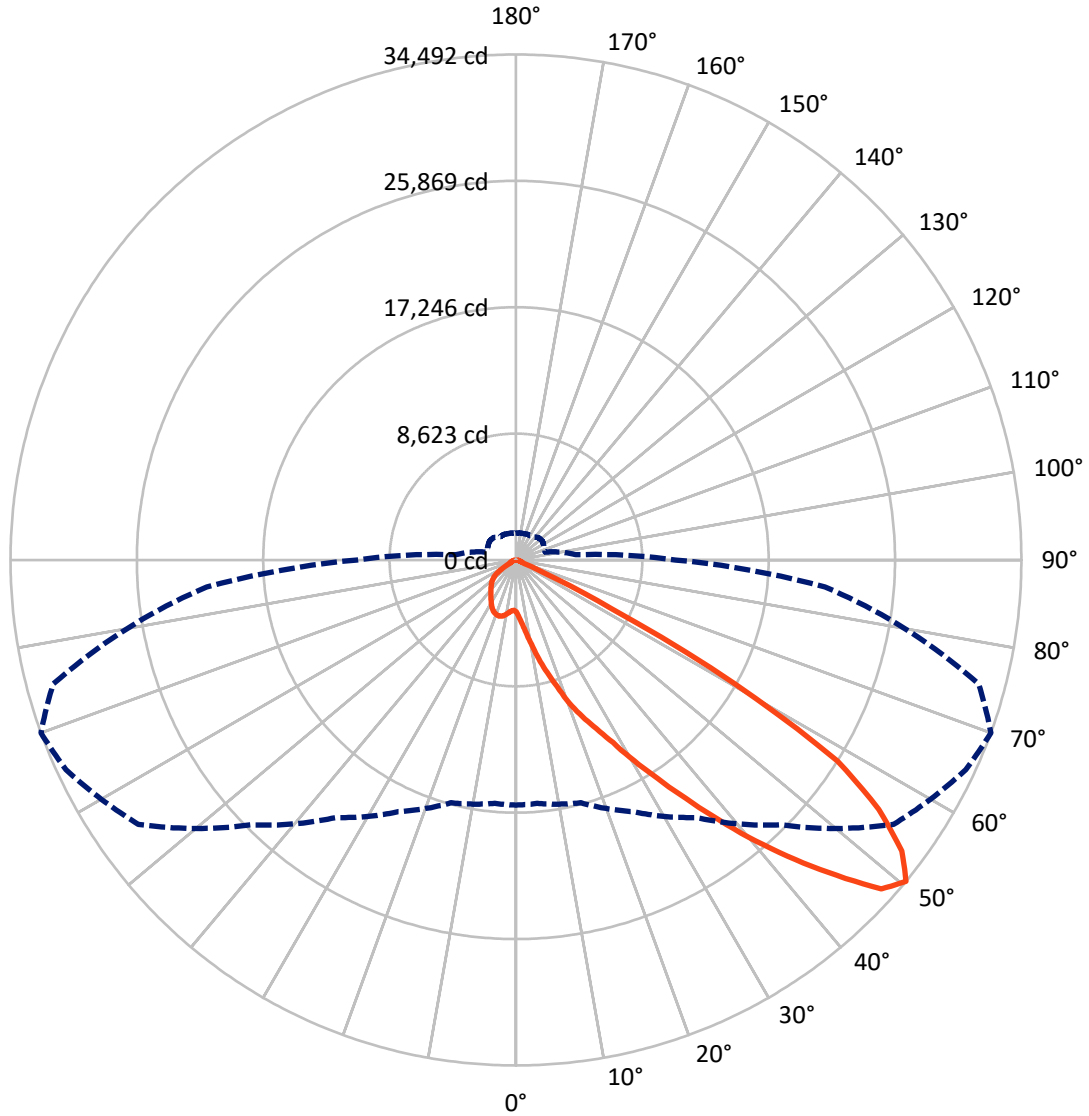
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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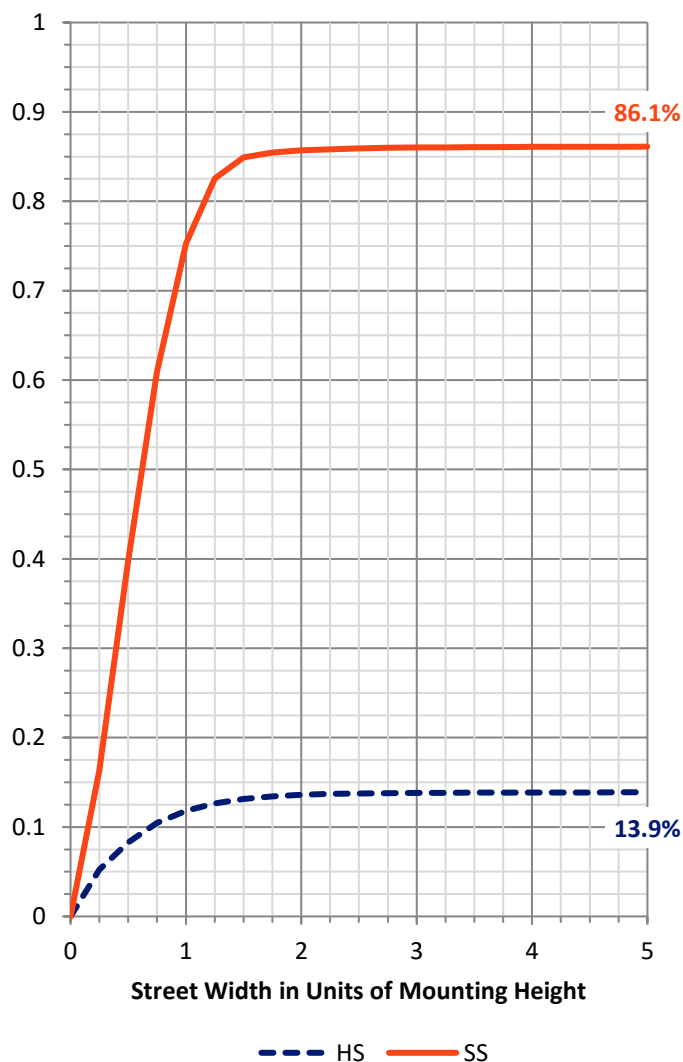
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4764.7   | 0.0    | 4764.7  |
|                    | % Fixture | 14.0     | 0.0    | 14.0    |
| <b>Street Side</b> | Lumens    | 29352.3  | 0.0    | 29352.3 |
|                    | % Fixture | 86.0     | 0.0    | 86.0    |
| <b>Total</b>       | Lumens    | 34117.0  | 0.0    | 34117.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 459.5   | 1.3       |
| 10°-20°   | 1987.8  | 5.8       |
| 20°-30°   | 4170.0  | 12.2      |
| 30°-40°   | 7187.7  | 21.1      |
| 40°-50°   | 10504.7 | 30.8      |
| 50°-60°   | 8181.4  | 24.0      |
| 60°-70°   | 1386.2  | 4.1       |
| 70°-80°   | 190.4   | 0.6       |
| 80°-90°   | 49.3    | 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°    | 34117.0 | 100.0     |
| 0°-180°   | 34117.0 | 100.0     |

**Coefficient of Utilization**



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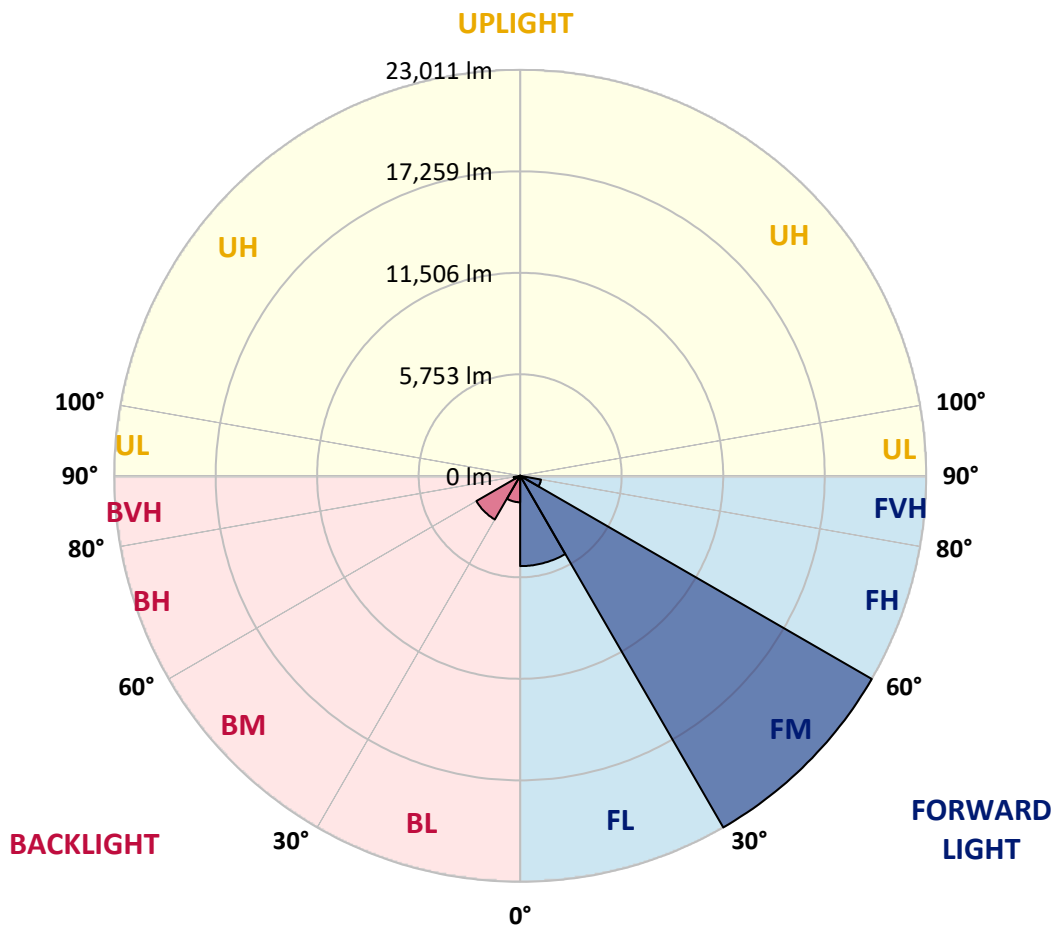
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 5118.0  | 15.0      |                         |      |         |
| FM (30°-60°)   | 23011.3 | 67.4      |                         |      |         |
| FH (60°-80°)   | 1200.2  | 3.5       |                         |      | G1/1800 |
| FVH (80°-90°)  | 22.8    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1499.3  | 4.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 2862.5  | 8.4       | B3/5000                 |      |         |
| BH (60°-80°)   | 376.4   | 1.1       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 26.5    | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 70°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3533.8  | 3533.8  | 3533.8  | 3533.8  | 3533.8  | 3533.8  | 3533.8  | 3533.8  | 3533.8  | 3533.8  | 3533.8  |
| 2.5°  | 4627.7  | 4594.0  | 4521.1  | 4386.5  | 4330.4  | 4195.7  | 4117.2  | 3965.8  | 3870.4  | 3763.8  | 3646.0  |
| 5°    | 6518.0  | 6344.1  | 6237.5  | 6086.1  | 5642.9  | 5368.1  | 4913.7  | 4526.7  | 4347.2  | 4150.9  | 3881.6  |
| 7.5°  | 8470.0  | 8357.8  | 8212.0  | 7886.7  | 7583.8  | 7011.6  | 6231.9  | 5379.3  | 5014.7  | 4678.1  | 4145.3  |
| 10°   | 10085.5 | 9771.4  | 9754.5  | 9513.3  | 9182.4  | 8498.1  | 7561.3  | 6501.2  | 5850.5  | 5356.9  | 4521.1  |
| 12.5° | 11213.0 | 10926.9 | 11055.9 | 11027.9 | 10719.3 | 10091.1 | 9008.5  | 7606.2  | 6927.5  | 6159.0  | 4908.1  |
| 15°   | 12239.5 | 12121.7 | 12082.4 | 12048.7 | 11925.3 | 11459.8 | 10489.4 | 8952.4  | 7970.8  | 7045.3  | 5345.6  |
| 17.5° | 13243.5 | 12940.6 | 13086.5 | 13114.5 | 13103.3 | 12682.6 | 11773.9 | 10231.3 | 9075.8  | 7982.0  | 5805.6  |
| 20°   | 14135.4 | 14163.4 | 13967.1 | 13927.9 | 13894.2 | 13877.4 | 12991.1 | 11499.0 | 10433.3 | 8963.6  | 6405.8  |
| 22.5° | 15279.7 | 15083.4 | 15257.3 | 15145.1 | 14926.3 | 14791.7 | 14113.0 | 12620.9 | 11611.2 | 10147.2 | 7017.2  |
| 25°   | 16631.5 | 16788.6 | 16379.1 | 16334.2 | 16093.0 | 15627.5 | 15016.1 | 13877.4 | 12744.3 | 11246.6 | 7679.1  |
| 27.5° | 18297.5 | 18022.6 | 17916.1 | 17669.2 | 17231.7 | 17035.4 | 16317.4 | 15173.1 | 14113.0 | 12402.1 | 8318.6  |
| 30°   | 19727.9 | 19654.9 | 19122.1 | 18830.4 | 18448.9 | 18443.3 | 17439.3 | 16928.8 | 15896.7 | 14213.9 | 9199.2  |
| 32.5° | 20894.6 | 20574.9 | 20378.5 | 20176.6 | 19868.1 | 19952.2 | 19105.2 | 18836.0 | 17798.3 | 15896.7 | 10236.9 |
| 35°   | 21674.3 | 21444.3 | 21326.5 | 21018.0 | 20928.2 | 21304.1 | 20950.7 | 20838.5 | 19985.9 | 18263.8 | 11454.2 |
| 37.5° | 21921.1 | 21994.0 | 21971.6 | 21584.5 | 21775.2 | 22790.5 | 23244.9 | 22953.2 | 22504.5 | 20760.0 | 12772.3 |
| 40°   | 22139.8 | 22190.3 | 22078.1 | 22532.5 | 23076.6 | 24232.1 | 25875.6 | 25393.2 | 25225.0 | 23289.8 | 14606.6 |
| 42.5° | 22263.3 | 22224.0 | 22224.0 | 23009.3 | 23833.9 | 26156.1 | 28416.6 | 28096.9 | 27967.9 | 25982.2 | 16726.9 |
| 45°   | 21730.4 | 21348.9 | 21758.4 | 22824.2 | 24484.5 | 27104.1 | 30447.2 | 30890.3 | 30705.2 | 29185.1 | 19206.2 |
| 47.5° | 19739.1 | 19974.7 | 20204.6 | 21629.4 | 23693.6 | 26812.4 | 31692.5 | 33201.4 | 33543.5 | 31877.6 | 20832.9 |
| 50°   | 16726.9 | 16676.4 | 17153.2 | 18948.2 | 21455.5 | 25555.9 | 31451.3 | 33868.9 | 34491.5 | 32685.3 | 21175.0 |
| 52.5° | 12166.5 | 12536.8 | 13052.8 | 14836.6 | 17809.5 | 22302.5 | 28338.1 | 32146.8 | 32977.0 | 31692.5 | 20950.7 |
| 55°   | 7084.5  | 6675.0  | 7836.2  | 9345.1  | 12149.7 | 16822.2 | 23957.3 | 28495.2 | 30032.1 | 29886.3 | 19817.6 |
| 57.5° | 2838.3  | 2748.5  | 3146.8  | 4240.6  | 6338.5  | 10427.7 | 17422.4 | 23413.2 | 25875.6 | 27373.3 | 17416.8 |
| 60°   | 1245.3  | 1217.2  | 1430.4  | 1727.7  | 2591.5  | 4807.2  | 9530.2  | 14561.7 | 17130.8 | 19127.7 | 11987.0 |
| 62.5° | 897.5   | 886.3   | 992.8   | 1099.4  | 1368.7  | 2092.3  | 4005.0  | 5867.3  | 7314.5  | 8834.6  | 5368.1  |
| 65°   | 723.6   | 751.6   | 824.6   | 880.7   | 1009.7  | 1161.1  | 1413.5  | 1632.3  | 2002.5  | 2075.4  | 1183.6  |
| 67.5° | 589.0   | 611.4   | 678.7   | 740.4   | 762.9   | 628.2   | 650.7   | 572.1   | 572.1   | 510.4   | 409.5   |
| 70°   | 431.9   | 437.5   | 516.1   | 589.0   | 471.2   | 252.4   | 443.1   | 443.1   | 398.3   | 381.4   | 347.8   |
| 72.5° | 319.7   | 325.3   | 387.0   | 364.6   | 185.1   | 157.1   | 325.3   | 359.0   | 325.3   | 308.5   | 280.5   |
| 75°   | 235.6   | 241.2   | 201.9   | 84.1    | 78.5    | 101.0   | 190.7   | 246.8   | 235.6   | 230.0   | 213.2   |
| 77.5° | 44.9    | 33.7    | 28.0    | 39.3    | 56.1    | 84.1    | 123.4   | 151.5   | 157.1   | 168.3   | 157.1   |
| 80°   | 5.6     | 5.6     | 16.8    | 33.7    | 61.7    | 89.7    | 129.0   | 145.8   | 151.5   | 157.1   | 145.8   |
| 82.5° | 0.0     | 5.6     | 16.8    | 33.7    | 61.7    | 84.1    | 112.2   | 129.0   | 140.2   | 145.8   | 140.2   |
| 85°   | 0.0     | 5.6     | 11.2    | 28.0    | 50.5    | 61.7    | 56.1    | 39.3    | 33.7    | 39.3    | 28.0    |
| 87.5° | 0.0     | 0.0     | 5.6     | 5.6     | 11.2    | 11.2    | 11.2    | 11.2    | 11.2    | 11.2    | 11.2    |
| 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°    | 3533.8  | 3533.8 | 3533.8 | 3533.8 | 3533.8 | 3533.8 | 3533.8 | 3533.8 | 3533.8 | 3533.8 | 3533.8 |
| 2.5°  | 3578.7  | 3556.3 | 3477.8 | 3393.6 | 3320.7 | 3354.4 | 3320.7 | 3292.7 | 3303.9 | 3292.7 | 3281.4 |
| 5°    | 3775.0  | 3674.1 | 3505.8 | 3432.9 | 3371.2 | 3365.6 | 3348.7 | 3343.1 | 3348.7 | 3348.7 | 3298.3 |
| 7.5°  | 3960.2  | 3797.5 | 3618.0 | 3539.5 | 3466.5 | 3472.1 | 3432.9 | 3432.9 | 3427.3 | 3399.2 | 3388.0 |
| 10°   | 4240.6  | 4021.9 | 3791.9 | 3651.6 | 3561.9 | 3545.1 | 3505.8 | 3466.5 | 3466.5 | 3466.5 | 3410.4 |
| 12.5° | 4549.1  | 4274.3 | 3960.2 | 3797.5 | 3690.9 | 3606.8 | 3545.1 | 3533.8 | 3472.1 | 3460.9 | 3432.9 |
| 15°   | 4818.4  | 4470.6 | 4072.3 | 3848.0 | 3713.3 | 3601.2 | 3505.8 | 3444.1 | 3416.1 | 3399.2 | 3376.8 |
| 17.5° | 5082.0  | 4638.9 | 4134.0 | 3848.0 | 3702.1 | 3573.1 | 3472.1 | 3416.1 | 3348.7 | 3360.0 | 3315.1 |
| 20°   | 5435.4  | 4818.4 | 4150.9 | 3775.0 | 3595.6 | 3472.1 | 3337.5 | 3309.5 | 3270.2 | 3236.6 | 3247.8 |
| 22.5° | 5777.6  | 4947.4 | 4100.4 | 3685.3 | 3427.3 | 3281.4 | 3214.1 | 3180.5 | 3163.6 | 3135.6 | 3096.3 |
| 25°   | 6086.1  | 5087.6 | 4021.9 | 3522.6 | 3247.8 | 3141.2 | 3079.5 | 3073.9 | 3034.6 | 3034.6 | 2961.7 |
| 27.5° | 6400.2  | 5138.1 | 3887.2 | 3331.9 | 3090.7 | 3029.0 | 3001.0 | 2989.7 | 2972.9 | 2933.7 | 2883.2 |
| 30°   | 6759.2  | 5154.9 | 3690.9 | 3135.6 | 2950.5 | 2883.2 | 2922.4 | 2950.5 | 2877.6 | 2804.6 | 2827.1 |
| 32.5° | 7056.5  | 5115.7 | 3455.3 | 2950.5 | 2849.5 | 2815.9 | 2894.4 | 2922.4 | 2838.3 | 2759.8 | 2720.5 |
| 35°   | 7415.5  | 5020.3 | 3225.3 | 2804.6 | 2748.5 | 2815.9 | 2883.2 | 2883.2 | 2714.9 | 2619.5 | 2597.1 |
| 37.5° | 7959.6  | 4913.7 | 3012.2 | 2681.2 | 2642.0 | 2782.2 | 2872.0 | 2810.3 | 2546.6 | 2428.8 | 2400.8 |
| 40°   | 8542.9  | 4846.4 | 2804.6 | 2557.8 | 2585.9 | 2726.1 | 2776.6 | 2585.9 | 2316.6 | 2243.7 | 2221.3 |
| 42.5° | 9389.9  | 4711.8 | 2619.5 | 2451.3 | 2535.4 | 2647.6 | 2647.6 | 2305.4 | 2204.4 | 2165.2 | 2159.6 |
| 45°   | 10444.5 | 4616.4 | 2456.9 | 2361.5 | 2462.5 | 2490.5 | 2400.8 | 2159.6 | 2086.7 | 2075.4 | 2081.0 |
| 47.5° | 10960.5 | 4431.3 | 2288.6 | 2254.9 | 2327.9 | 2333.5 | 2097.9 | 2041.8 | 1980.1 | 1963.2 | 1952.0 |
| 50°   | 10882.0 | 4100.4 | 2069.8 | 2114.7 | 2215.7 | 2159.6 | 1912.8 | 1924.0 | 1867.9 | 1862.3 | 1834.2 |
| 52.5° | 10332.3 | 3578.7 | 1851.1 | 1957.6 | 2069.8 | 1907.2 | 1761.3 | 1750.1 | 1750.1 | 1677.2 | 1649.1 |
| 55°   | 9160.0  | 2883.2 | 1587.4 | 1722.1 | 1856.7 | 1604.3 | 1565.0 | 1553.8 | 1525.7 | 1458.4 | 1441.6 |
| 57.5° | 7252.8  | 2114.7 | 1194.8 | 1340.6 | 1576.2 | 1363.1 | 1357.4 | 1307.0 | 1234.0 | 1183.6 | 1183.6 |
| 60°   | 4313.5  | 1217.2 | 751.6  | 819.0  | 1043.3 | 1105.0 | 1228.4 | 1206.0 | 1082.6 | 1004.1 | 981.6  |
| 62.5° | 1968.9  | 628.2  | 476.8  | 488.0  | 560.9  | 718.0  | 964.8  | 1116.2 | 942.4  | 807.7  | 796.5  |
| 65°   | 661.9   | 465.6  | 392.6  | 375.8  | 387.0  | 431.9  | 577.8  | 790.9  | 751.6  | 622.6  | 600.2  |
| 67.5° | 403.9   | 415.1  | 370.2  | 342.2  | 342.2  | 336.6  | 330.9  | 359.0  | 443.1  | 431.9  | 437.5  |
| 70°   | 347.8   | 381.4  | 342.2  | 308.5  | 297.3  | 280.5  | 235.6  | 196.3  | 168.3  | 196.3  | 207.5  |
| 72.5° | 280.5   | 302.9  | 291.7  | 263.6  | 235.6  | 213.2  | 168.3  | 129.0  | 95.4   | 84.1   | 84.1   |
| 75°   | 207.5   | 224.4  | 235.6  | 201.9  | 179.5  | 151.5  | 123.4  | 84.1   | 50.5   | 33.7   | 33.7   |
| 77.5° | 151.5   | 168.3  | 173.9  | 157.1  | 134.6  | 106.6  | 78.5   | 56.1   | 28.0   | 11.2   | 11.2   |
| 80°   | 129.0   | 151.5  | 168.3  | 157.1  | 140.2  | 101.0  | 72.9   | 39.3   | 22.4   | 5.6    | 5.6    |
| 82.5° | 123.4   | 151.5  | 168.3  | 151.5  | 134.6  | 95.4   | 72.9   | 44.9   | 16.8   | 5.6    | 5.6    |
| 85°   | 28.0    | 39.3   | 50.5   | 61.7   | 72.9   | 72.9   | 56.1   | 33.7   | 16.8   | 5.6    | 5.6    |
| 87.5° | 11.2    | 11.2   | 11.2   | 11.2   | 11.2   | 11.2   | 11.2   | 11.2   | 5.6    | 5.6    | 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)