

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: P531560

Luminaire Tested: **GALN-SA6D-760-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531560  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-760-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38882 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

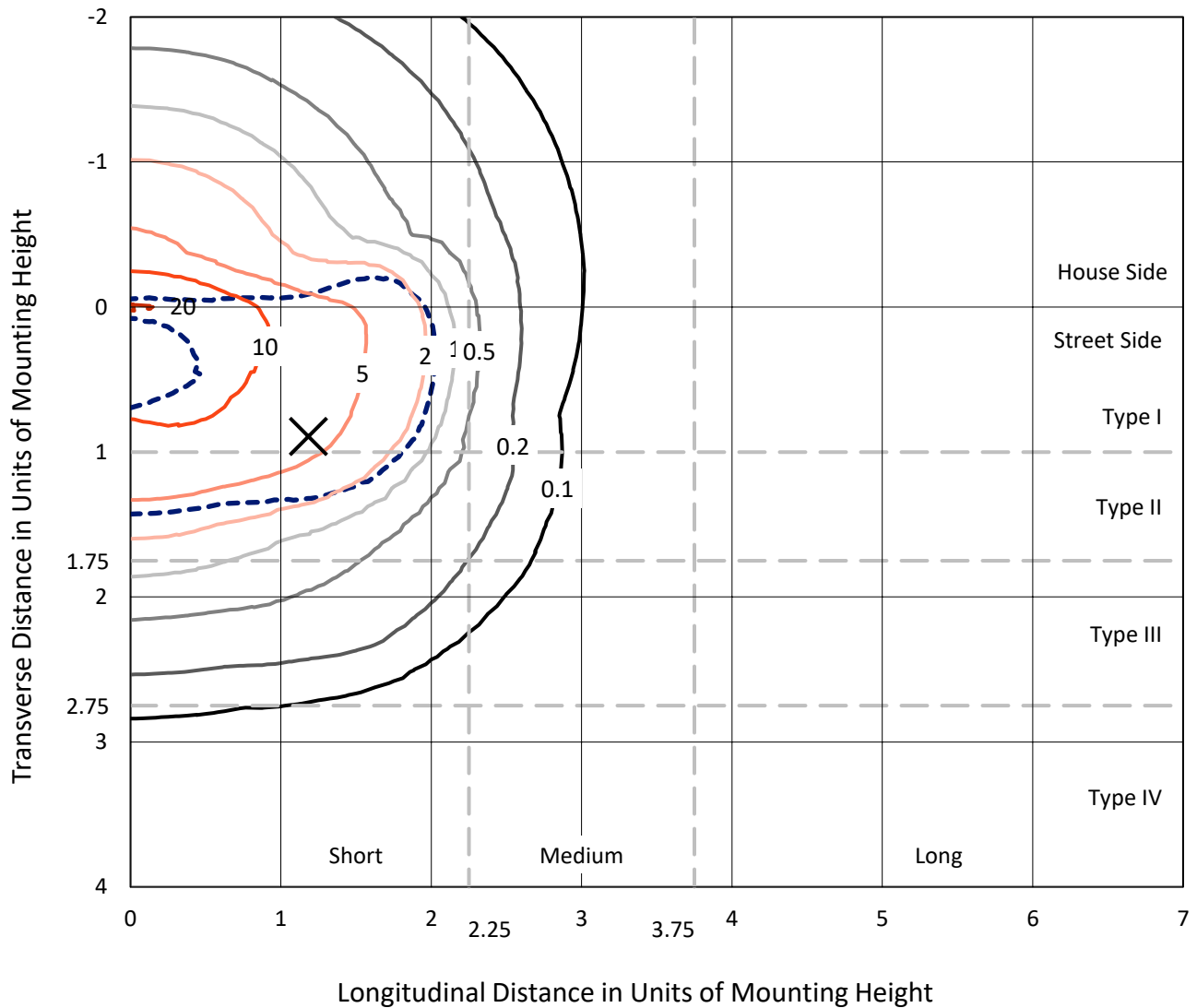
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

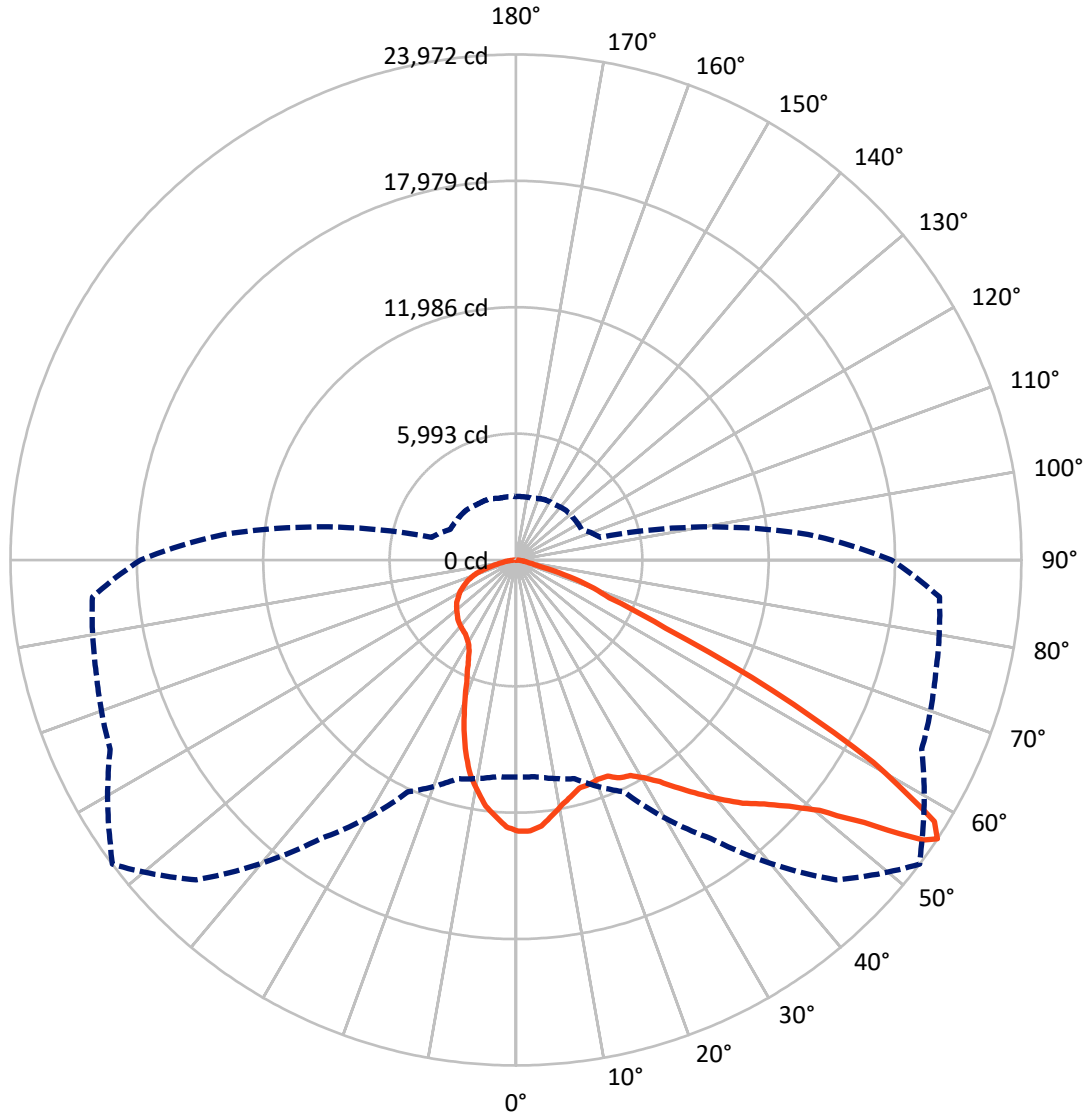
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11346.6  | 0.0    | 11346.6 |
|                    | % Fixture | 29.2     | 0.0    | 29.2    |
| <b>Street Side</b> | Lumens    | 27535.4  | 0.0    | 27535.4 |
|                    | % Fixture | 70.8     | 0.0    | 70.8    |
| <b>Total</b>       | Lumens    | 38882.0  | 0.0    | 38882.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1138.8  | 2.9       |
| 10°-20°   | 2844.2  | 7.3       |
| 20°-30°   | 4194.1  | 10.8      |
| 30°-40°   | 5992.5  | 15.4      |
| 40°-50°   | 8247.9  | 21.2      |
| 50°-60°   | 9746.8  | 25.1      |
| 60°-70°   | 5194.4  | 13.4      |
| 70°-80°   | 1317.8  | 3.4       |
| 80°-90°   | 205.5   | 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°    | 38882.0 | 100.0     |
| 0°-180°   | 38882.0 | 100.0     |

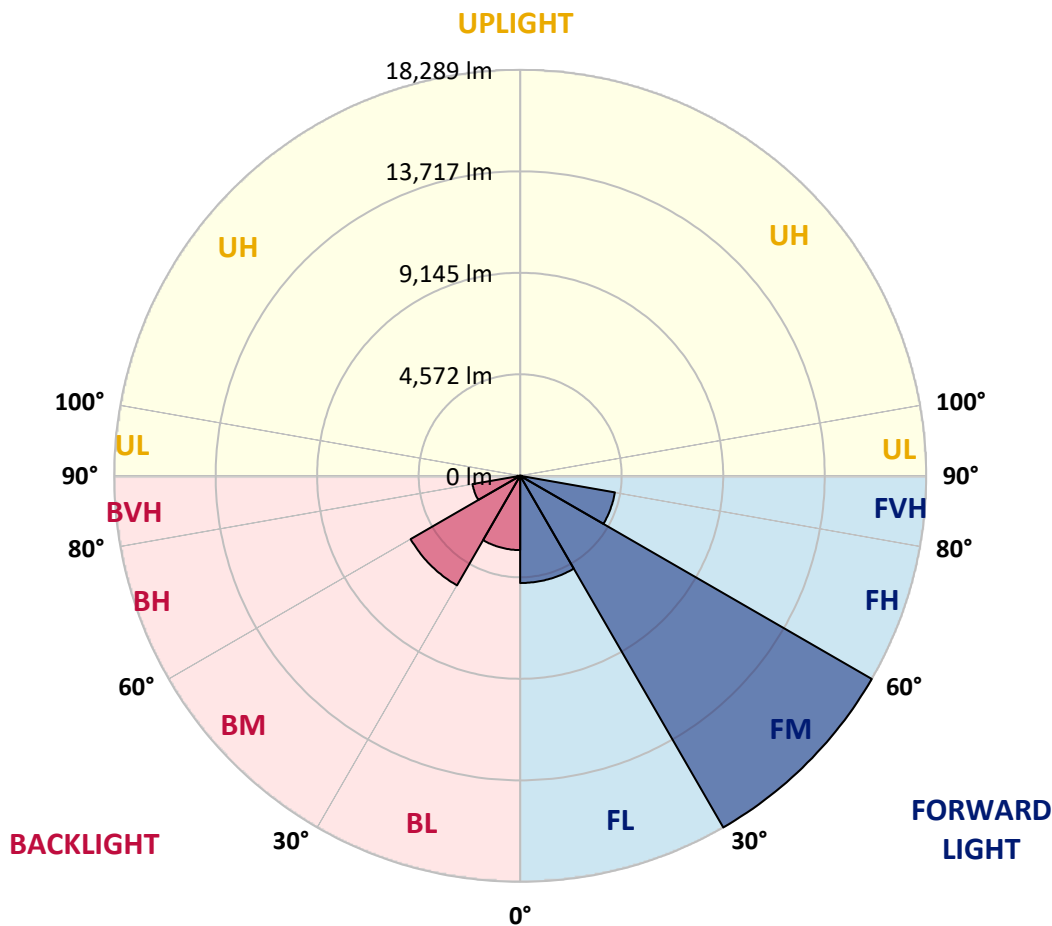


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4830.5  | 12.4      |                         |      |         |
| FM (30°-60°)   | 18289.3 | 47.0      |                         |      |         |
| FH (60°-80°)   | 4332.9  | 11.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 82.6    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 3346.6  | 8.6       | B4/5000                 |      |         |
| BM (30°-60°)   | 5697.9  | 14.7      | B4/8500                 |      |         |
| BH (60°-80°)   | 2179.3  | 5.6       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 122.9   | 0.3       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 53°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12863.7 | 12863.7 | 12863.7 | 12863.7 | 12863.7 | 12863.7 | 12863.7 | 12863.7 | 12863.7 | 12863.7 | 12863.7 |
| 2.5°  | 12704.1 | 12594.4 | 12659.2 | 12634.3 | 12838.8 | 12898.6 | 12868.7 | 12893.6 | 13008.3 | 12953.5 | 12838.8 |
| 5°    | 11871.1 | 12025.7 | 12055.7 | 12130.5 | 12250.2 | 12484.6 | 12669.2 | 12719.0 | 12773.9 | 13028.3 | 13003.4 |
| 7.5°  | 11113.0 | 11217.7 | 11162.8 | 11382.3 | 11641.7 | 12020.7 | 12245.2 | 12285.1 | 12788.9 | 12928.5 | 13033.3 |
| 10°   | 10634.1 | 10529.4 | 10778.8 | 10838.6 | 11132.9 | 11566.9 | 11836.2 | 12000.8 | 12459.7 | 13013.3 | 13078.2 |
| 12.5° | 10190.2 | 10155.3 | 10304.9 | 10474.5 | 10803.7 | 11252.6 | 11527.0 | 11591.8 | 12300.1 | 12883.6 | 13187.9 |
| 15°   | 9861.0  | 9821.1  | 9970.7  | 10095.4 | 10479.5 | 10878.5 | 11227.7 | 11412.2 | 12125.5 | 12808.8 | 13093.1 |
| 17.5° | 9601.6  | 9596.6  | 9681.4  | 9905.9  | 10299.9 | 10634.1 | 11197.8 | 11207.7 | 12035.7 | 12923.6 | 13172.9 |
| 20°   | 9586.7  | 9581.7  | 9596.6  | 9846.0  | 10205.2 | 10614.2 | 11103.0 | 11192.8 | 12035.7 | 12843.7 | 13177.9 |
| 22.5° | 9711.4  | 9631.6  | 9721.3  | 9881.0  | 10140.3 | 10649.1 | 11137.9 | 11337.4 | 12325.0 | 13237.8 | 13402.4 |
| 25°   | 9910.9  | 9930.8  | 9980.7  | 10035.6 | 10185.2 | 10728.9 | 11447.1 | 11611.7 | 12664.2 | 13577.0 | 13711.6 |
| 27.5° | 10275.0 | 10265.0 | 10285.0 | 10314.9 | 10444.6 | 10803.7 | 11571.8 | 11995.8 | 13372.5 | 14180.5 | 14045.8 |
| 30°   | 10808.7 | 10773.8 | 10853.6 | 10958.3 | 10838.6 | 11043.1 | 11985.8 | 12305.1 | 14030.9 | 14789.0 | 14419.9 |
| 32.5° | 11292.5 | 11422.2 | 11571.8 | 11616.7 | 11472.1 | 11512.0 | 12534.5 | 12858.7 | 14579.5 | 15537.2 | 14878.8 |
| 35°   | 11896.1 | 12000.8 | 12200.3 | 12340.0 | 12315.0 | 12195.3 | 13282.7 | 13711.6 | 15372.6 | 16085.9 | 15362.6 |
| 37.5° | 12484.6 | 12609.3 | 12938.5 | 13352.5 | 13123.1 | 13068.2 | 14080.7 | 14434.9 | 15617.0 | 16380.1 | 15716.8 |
| 40°   | 13432.3 | 13427.3 | 13995.9 | 14210.4 | 14414.9 | 14320.2 | 14908.7 | 15028.4 | 15746.7 | 16315.3 | 15726.7 |
| 42.5° | 14544.6 | 14474.8 | 15053.4 | 15387.6 | 15651.9 | 15661.9 | 15771.6 | 15731.7 | 15806.5 | 15986.1 | 15622.0 |
| 45°   | 15602.0 | 15751.7 | 16335.3 | 16933.8 | 17198.2 | 17228.1 | 16499.8 | 16425.0 | 15911.3 | 15891.3 | 15422.5 |
| 47.5° | 16893.9 | 16928.8 | 17407.6 | 18195.7 | 18809.2 | 18599.7 | 17442.6 | 17278.0 | 16370.2 | 16524.8 | 15756.7 |
| 50°   | 16968.7 | 17228.1 | 17657.0 | 18584.8 | 20470.2 | 20415.3 | 18664.6 | 18355.3 | 17108.4 | 17422.6 | 16689.4 |
| 52.5° | 15402.5 | 15342.7 | 15851.4 | 17367.7 | 20345.5 | 22220.9 | 20689.7 | 19951.5 | 18694.5 | 18455.1 | 18200.7 |
| 55°   | 11736.4 | 11876.1 | 12325.0 | 13856.3 | 17667.0 | 22245.9 | 23447.9 | 22844.4 | 20390.4 | 19981.4 | 19687.1 |
| 56°   | 10294.9 | 10314.9 | 10738.9 | 12135.5 | 16120.8 | 21452.8 | 23971.7 | 23482.9 | 21233.3 | 20609.8 | 20160.9 |
| 57.5° | 8534.2  | 8419.5  | 8639.0  | 9402.1  | 13606.9 | 19776.9 | 23398.1 | 23876.9 | 22220.9 | 21288.2 | 20664.7 |
| 60°   | 6718.7  | 6693.7  | 6603.9  | 6743.6  | 8599.1  | 14898.7 | 19477.6 | 20555.0 | 22121.2 | 20649.8 | 19791.8 |
| 62.5° | 5486.6  | 5362.0  | 5541.5  | 5741.0  | 5975.5  | 9242.5  | 13686.7 | 14320.2 | 17562.3 | 16484.9 | 14868.8 |
| 65°   | 4254.6  | 4194.8  | 4419.2  | 5067.7  | 5207.3  | 5870.7  | 7796.0  | 8284.8  | 10369.8 | 10185.2 | 8968.2  |
| 67.5° | 2927.9  | 2937.9  | 3132.4  | 4120.0  | 4828.3  | 4768.4  | 4773.4  | 5027.8  | 5411.8  | 4020.2  | 3501.5  |
| 70°   | 1855.5  | 1850.5  | 1955.2  | 2653.5  | 3885.5  | 3925.4  | 3725.9  | 3651.1  | 3461.6  | 2094.9  | 2219.6  |
| 72.5° | 1192.1  | 1157.2  | 1212.1  | 1466.4  | 2010.1  | 2324.3  | 2394.2  | 2439.1  | 2005.1  | 1646.0  | 1785.7  |
| 75°   | 673.4   | 638.4   | 618.5   | 683.3   | 793.1   | 917.8   | 1007.5  | 1037.5  | 1162.2  | 1247.0  | 1321.8  |
| 77.5° | 204.5   | 184.6   | 224.5   | 299.3   | 394.0   | 528.7   | 643.4   | 663.4   | 783.1   | 882.9   | 957.7   |
| 80°   | 89.8    | 99.8    | 139.7   | 199.5   | 279.3   | 374.1   | 453.9   | 483.8   | 563.6   | 638.4   | 658.4   |
| 82.5° | 54.9    | 59.9    | 94.8    | 134.7   | 194.5   | 264.4   | 324.2   | 334.2   | 414.0   | 473.8   | 488.8   |
| 85°   | 20.0    | 24.9    | 49.9    | 79.8    | 124.7   | 169.6   | 169.6   | 184.6   | 169.6   | 169.6   | 184.6   |
| 87.5° | 0.0     | 0.0     | 5.0     | 10.0    | 10.0    | 15.0    | 20.0    | 20.0    | 24.9    | 29.9    | 34.9    |
| 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°    | 12863.7 | 12863.7 | 12863.7 | 12863.7 | 12863.7 | 12863.7 | 12863.7 | 12863.7 | 12863.7 | 12863.7 | 12863.7 |
| 2.5°  | 12898.6 | 12873.7 | 12833.8 | 12689.1 | 12674.2 | 12629.3 | 12379.9 | 12340.0 | 12379.9 | 12260.2 | 12270.1 |
| 5°    | 12873.7 | 12948.5 | 12649.2 | 12504.6 | 12235.2 | 12040.7 | 11816.2 | 11701.5 | 11497.0 | 11367.3 | 11512.0 |
| 7.5°  | 12983.4 | 12953.5 | 12579.4 | 12265.2 | 11861.1 | 11367.3 | 10973.3 | 10748.8 | 10389.7 | 10290.0 | 10364.8 |
| 10°   | 12943.5 | 12783.9 | 12345.0 | 11931.0 | 11167.8 | 10733.9 | 10095.4 | 9476.9  | 9137.8  | 8963.2  | 8938.3  |
| 12.5° | 12888.6 | 12843.7 | 12110.5 | 11397.3 | 10594.2 | 9681.4  | 8783.6  | 8200.0  | 7646.4  | 7407.0  | 7441.9  |
| 15°   | 12953.5 | 12574.4 | 11671.6 | 10768.8 | 9701.4  | 8504.3  | 7536.7  | 6783.5  | 6399.4  | 6244.8  | 6244.8  |
| 17.5° | 12923.6 | 12444.7 | 11462.1 | 10065.5 | 8713.8  | 7297.2  | 6234.8  | 5780.9  | 5621.3  | 5621.3  | 5666.2  |
| 20°   | 12938.5 | 12529.5 | 11038.1 | 9362.2  | 7546.6  | 6145.0  | 5371.9  | 5207.3  | 5277.2  | 5302.1  | 5327.0  |
| 22.5° | 13023.3 | 12250.2 | 10624.1 | 8589.1  | 6464.3  | 5257.2  | 4878.1  | 4883.1  | 5007.8  | 5142.5  | 5117.5  |
| 25°   | 13128.1 | 12140.5 | 10120.4 | 7821.0  | 5636.3  | 4823.3  | 4703.6  | 4688.6  | 4783.4  | 4853.2  | 4863.2  |
| 27.5° | 13038.3 | 11950.9 | 9606.6  | 6863.3  | 4957.9  | 4534.0  | 4509.0  | 4519.0  | 4548.9  | 4688.6  | 4643.7  |
| 30°   | 13332.6 | 12005.8 | 8963.2  | 6060.3  | 4583.8  | 4439.2  | 4409.3  | 4394.3  | 4439.2  | 4479.1  | 4444.2  |
| 32.5° | 13696.7 | 11811.3 | 8484.4  | 5287.1  | 4399.3  | 4369.4  | 4309.5  | 4289.6  | 4314.5  | 4274.6  | 4294.5  |
| 35°   | 13856.3 | 11776.3 | 7860.9  | 4733.5  | 4254.6  | 4229.7  | 4194.8  | 4189.8  | 4194.8  | 4159.9  | 4130.0  |
| 37.5° | 13946.1 | 11940.9 | 7147.6  | 4479.1  | 4164.9  | 4189.8  | 4110.0  | 4100.0  | 4010.2  | 4030.2  | 4045.2  |
| 40°   | 14100.7 | 11686.6 | 6569.0  | 4234.7  | 4110.0  | 4060.1  | 3990.3  | 3975.3  | 3915.5  | 3880.6  | 3915.5  |
| 42.5° | 13876.2 | 11611.7 | 6000.4  | 4130.0  | 4030.2  | 3975.3  | 3925.4  | 3840.7  | 3820.7  | 3790.8  | 3770.8  |
| 45°   | 13696.7 | 11182.8 | 5491.6  | 4000.3  | 3935.4  | 3905.5  | 3810.7  | 3720.9  | 3646.1  | 3676.1  | 3631.2  |
| 47.5° | 13831.3 | 11033.2 | 4987.9  | 3890.5  | 3805.7  | 3770.8  | 3676.1  | 3606.2  | 3531.4  | 3496.5  | 3486.5  |
| 50°   | 14370.0 | 11312.5 | 4563.9  | 3810.7  | 3696.0  | 3676.1  | 3551.4  | 3471.6  | 3401.7  | 3376.8  | 3386.8  |
| 52.5° | 15656.9 | 12075.6 | 4274.6  | 3646.1  | 3591.3  | 3501.5  | 3431.6  | 3331.9  | 3287.0  | 3207.2  | 3257.1  |
| 55°   | 17287.9 | 13317.6 | 4199.8  | 3491.5  | 3461.6  | 3381.8  | 3287.0  | 3212.2  | 3127.4  | 3062.5  | 3047.6  |
| 56°   | 17811.7 | 13911.1 | 4139.9  | 3431.6  | 3381.8  | 3336.9  | 3212.2  | 3167.3  | 3032.6  | 3017.7  | 3007.7  |
| 57.5° | 18235.6 | 14434.9 | 4149.9  | 3316.9  | 3267.1  | 3227.1  | 3152.3  | 3042.6  | 2952.8  | 2897.9  | 2922.9  |
| 60°   | 17278.0 | 13512.1 | 3960.4  | 3142.4  | 3132.4  | 3057.6  | 2952.8  | 2902.9  | 2793.2  | 2728.4  | 2713.4  |
| 62.5° | 12843.7 | 9172.7  | 3212.2  | 2917.9  | 2912.9  | 2833.1  | 2713.4  | 2658.5  | 2638.6  | 2548.8  | 2548.8  |
| 65°   | 7397.0  | 5751.0  | 2778.2  | 2733.3  | 2693.4  | 2613.6  | 2493.9  | 2449.0  | 2399.2  | 2369.2  | 2344.3  |
| 67.5° | 3157.3  | 2982.7  | 2523.9  | 2518.9  | 2474.0  | 2374.2  | 2254.5  | 2184.7  | 2119.8  | 2060.0  | 2089.9  |
| 70°   | 2289.4  | 2324.3  | 2279.5  | 2254.5  | 2199.6  | 2075.0  | 1970.2  | 1885.4  | 1785.7  | 1745.8  | 1775.7  |
| 72.5° | 1815.6  | 1890.4  | 1955.2  | 1960.2  | 1895.4  | 1750.7  | 1636.0  | 1521.3  | 1411.6  | 1356.7  | 1381.6  |
| 75°   | 1376.7  | 1426.5  | 1491.4  | 1506.3  | 1411.6  | 1311.8  | 1202.1  | 1082.4  | 997.6   | 932.7   | 942.7   |
| 77.5° | 992.6   | 982.6   | 1042.5  | 1032.5  | 987.6   | 917.8   | 818.0   | 708.3   | 613.5   | 553.7   | 558.6   |
| 80°   | 678.3   | 693.3   | 728.2   | 723.2   | 668.4   | 623.5   | 548.7   | 458.9   | 389.1   | 339.2   | 329.2   |
| 82.5° | 473.8   | 498.8   | 528.7   | 503.8   | 458.9   | 414.0   | 359.1   | 294.3   | 239.4   | 199.5   | 189.5   |
| 85°   | 169.6   | 194.5   | 224.5   | 239.4   | 254.4   | 244.4   | 204.5   | 164.6   | 119.7   | 99.8    | 94.8    |
| 87.5° | 34.9    | 39.9    | 44.9    | 44.9    | 44.9    | 39.9    | 34.9    | 34.9    | 29.9    | 15.0    | 15.0    |
| 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)