

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: P454025

Luminaire Tested: **GALN-SA5A-760-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454025  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5A-760-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22860 lumens  
Efficiency: N/A  
Efficacy: 148.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

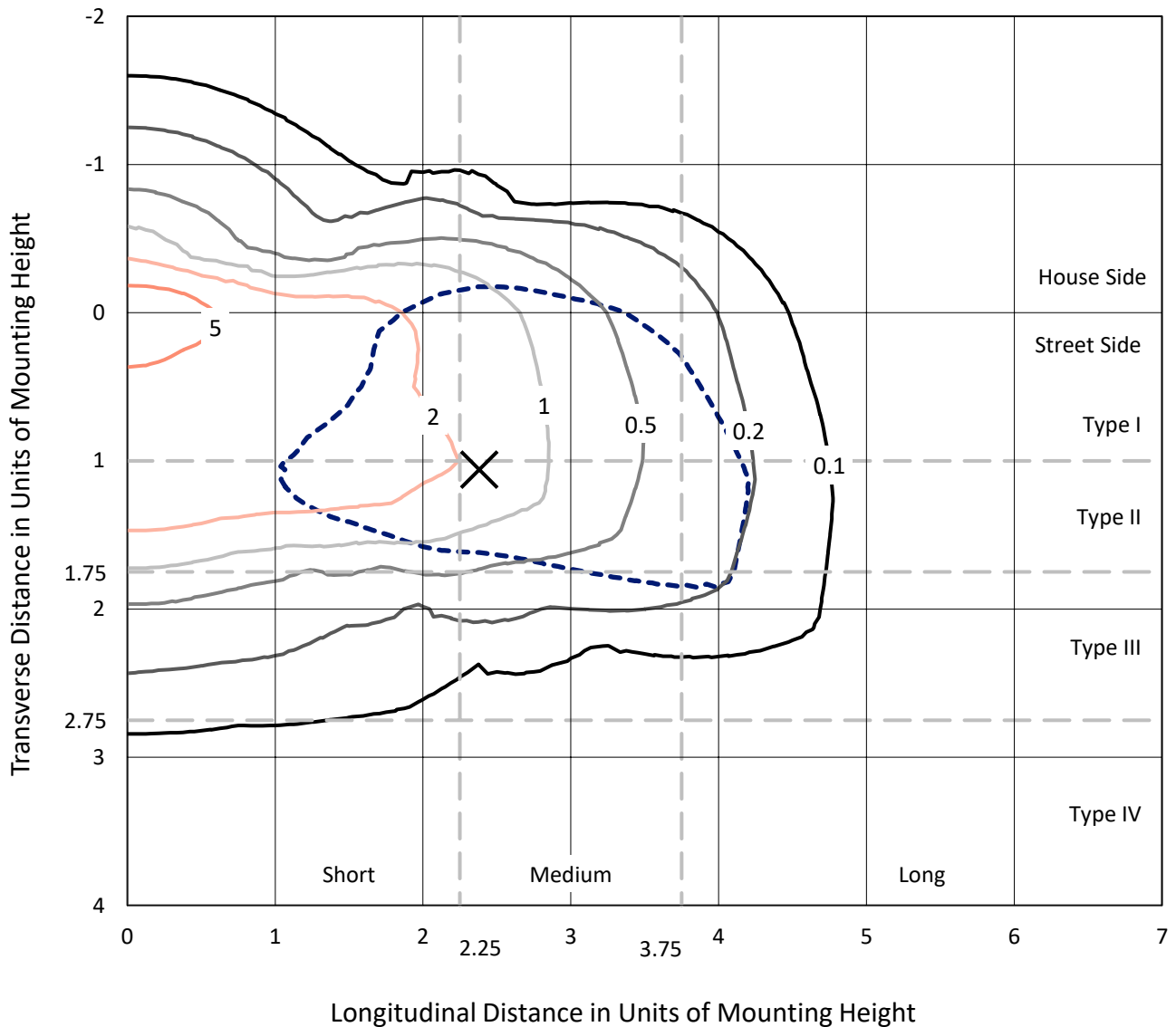
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

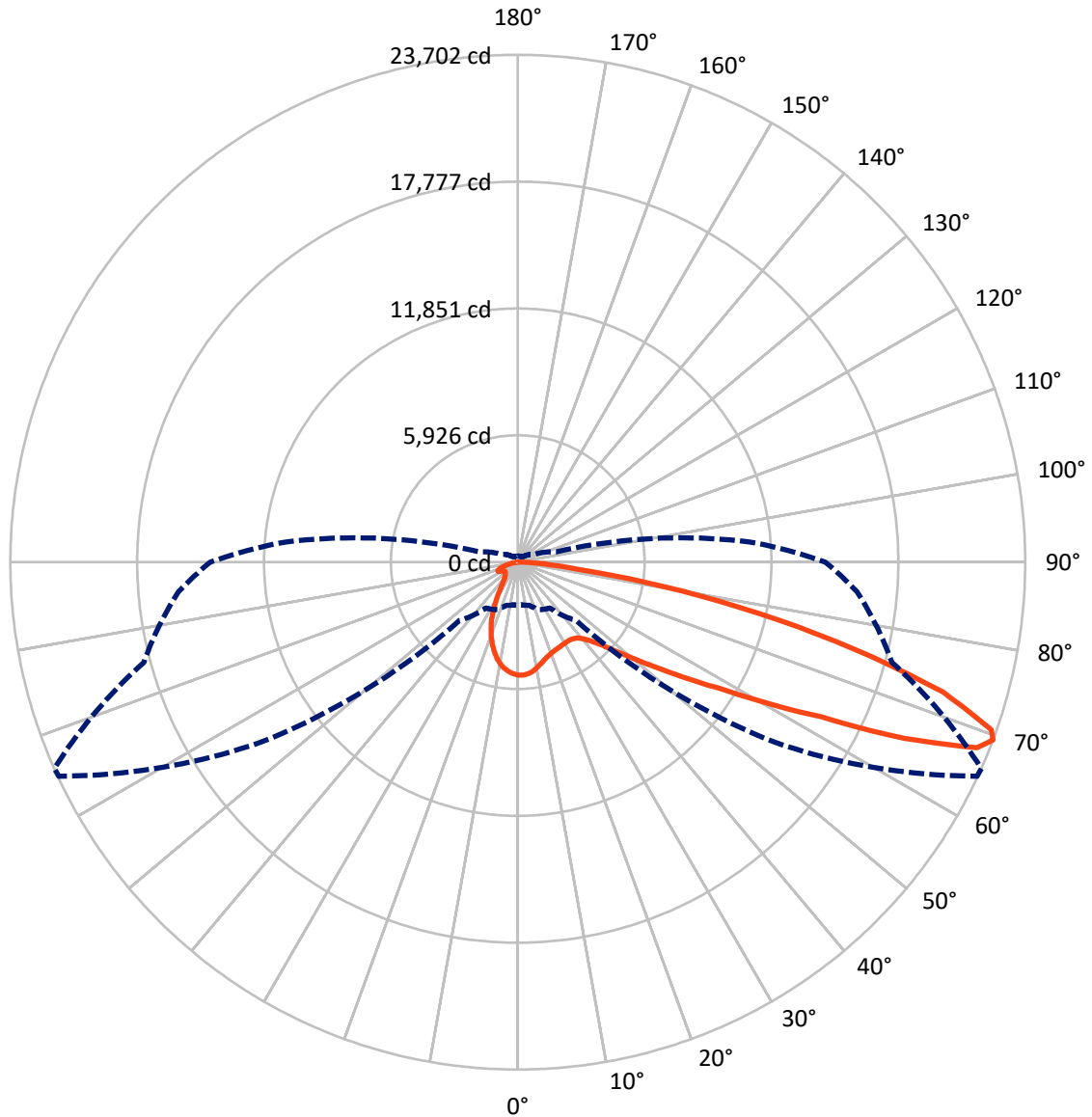
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4299.1   | 0.0    | 4299.1  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 18560.9  | 0.0    | 18560.9 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 22860.0  | 0.0    | 22860.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 458.4   | 2.0       |
| 10°-20°   | 1087.3  | 4.8       |
| 20°-30°   | 1480.3  | 6.5       |
| 30°-40°   | 1989.2  | 8.7       |
| 40°-50°   | 2970.2  | 13.0      |
| 50°-60°   | 4724.5  | 20.7      |
| 60°-70°   | 5810.9  | 25.4      |
| 70°-80°   | 3780.8  | 16.5      |
| 80°-90°   | 558.3   | 2.4       |
| 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°    | 22860.0 | 100.0     |
| 0°-180°   | 22860.0 | 100.0     |

**Coefficient of Utilization**



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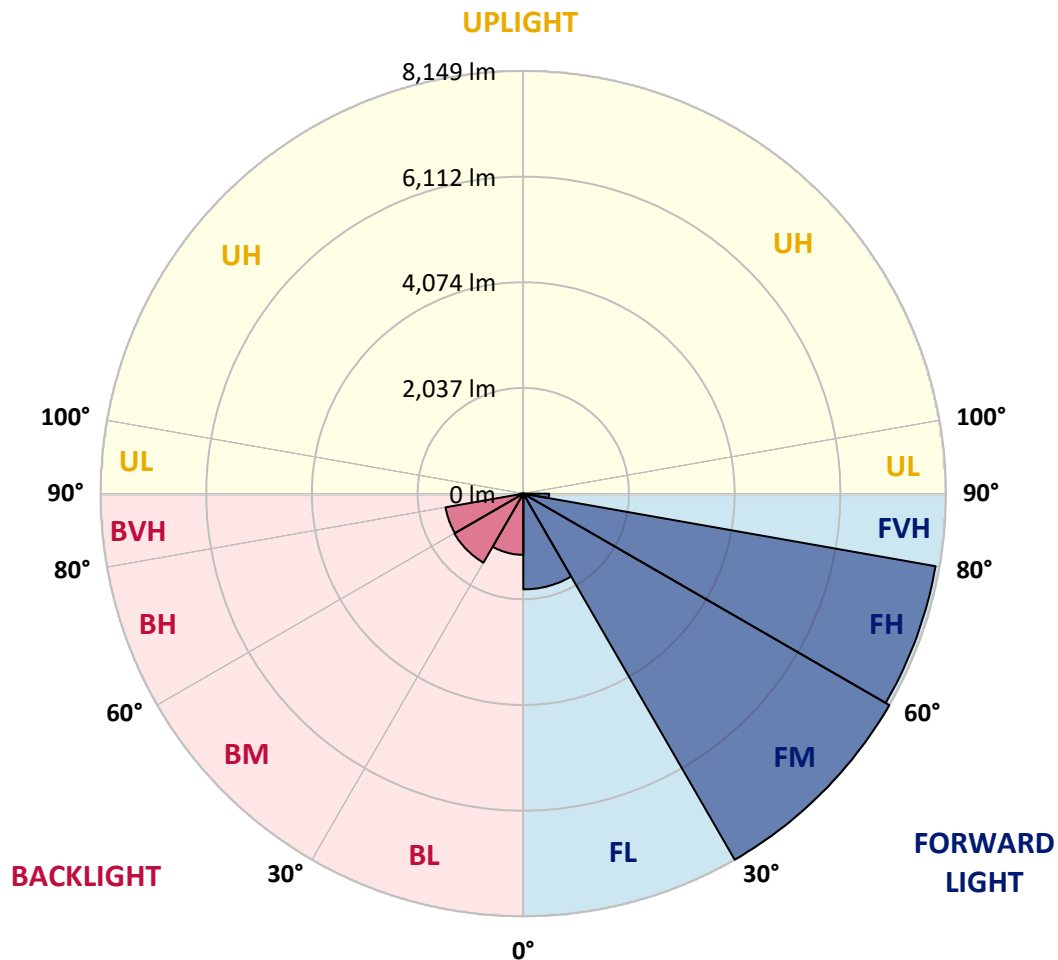
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1845.9 | 8.1       |                         |      |          |
| FM   | (30°-60°)   | 8148.9 | 35.6      |                         |      |          |
| FH   | (60°-80°)   | 8069.7 | 35.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 496.4  | 2.2       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1180.1 | 5.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 1535.0 | 6.7       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1522.1 | 6.7       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 61.9   | 0.3       |                         |      | G1/100   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 5279.0 | 5279.0 | 5279.0 | 5279.0 | 5279.0 | 5279.0  | 5279.0  | 5279.0  | 5279.0  | 5279.0  | 5279.0  |
| 2.5°  | 5094.2 | 5114.4 | 5137.2 | 5162.5 | 5210.6 | 5237.2  | 5256.2  | 5277.7  | 5280.3  | 5291.7  | 5282.8  |
| 5°    | 4718.2 | 4742.2 | 4776.4 | 4824.5 | 4896.7 | 5009.4  | 5125.8  | 5220.8  | 5232.2  | 5285.3  | 5300.5  |
| 7.5°  | 4404.2 | 4418.2 | 4446.0 | 4523.2 | 4625.8 | 4751.1  | 4920.7  | 5113.2  | 5141.0  | 5267.6  | 5311.9  |
| 10°   | 4148.5 | 4162.4 | 4195.4 | 4275.1 | 4376.4 | 4533.4  | 4719.5  | 4972.6  | 4995.4  | 5213.2  | 5314.5  |
| 12.5° | 3957.4 | 3970.0 | 4005.5 | 4084.0 | 4200.4 | 4347.3  | 4552.4  | 4820.7  | 4853.7  | 5141.0  | 5290.4  |
| 15°   | 3811.8 | 3835.8 | 3864.9 | 3929.5 | 4052.3 | 4194.1  | 4392.8  | 4681.5  | 4708.1  | 5065.1  | 5273.9  |
| 17.5° | 3749.7 | 3761.1 | 3781.4 | 3840.9 | 3930.8 | 4070.0  | 4270.0  | 4572.6  | 4604.3  | 5011.9  | 5270.1  |
| 20°   | 3752.3 | 3763.7 | 3767.5 | 3800.4 | 3864.9 | 3985.2  | 4182.7  | 4486.5  | 4524.5  | 4965.1  | 5276.5  |
| 22.5° | 3838.4 | 3839.6 | 3825.7 | 3814.3 | 3839.6 | 3939.6  | 4120.7  | 4422.0  | 4466.3  | 4944.8  | 5281.5  |
| 25°   | 3971.3 | 3994.1 | 3973.8 | 3920.6 | 3873.8 | 3921.9  | 4096.6  | 4386.5  | 4428.3  | 4915.7  | 5275.2  |
| 27.5° | 4186.5 | 4190.3 | 4173.8 | 4101.7 | 3980.1 | 3944.7  | 4086.5  | 4359.9  | 4395.4  | 4894.2  | 5243.6  |
| 30°   | 4475.1 | 4463.7 | 4448.5 | 4368.8 | 4177.6 | 4032.0  | 4108.0  | 4335.9  | 4372.6  | 4862.5  | 5205.6  |
| 32.5° | 4767.6 | 4803.0 | 4789.1 | 4695.4 | 4447.3 | 4201.7  | 4177.6  | 4333.3  | 4363.7  | 4838.5  | 5163.8  |
| 35°   | 5077.7 | 5094.2 | 5160.0 | 5111.9 | 4857.4 | 4476.4  | 4308.0  | 4372.6  | 4396.6  | 4839.7  | 5134.7  |
| 37.5° | 5320.8 | 5365.1 | 5519.5 | 5561.3 | 5322.1 | 4839.7  | 4519.4  | 4484.0  | 4494.1  | 4901.8  | 5146.1  |
| 40°   | 5614.5 | 5690.4 | 5889.2 | 6060.1 | 5903.1 | 5311.9  | 4879.0  | 4690.3  | 4703.0  | 5051.1  | 5220.8  |
| 42.5° | 5986.7 | 6039.8 | 6307.0 | 6538.6 | 6513.3 | 5936.0  | 5314.5  | 5028.4  | 5034.7  | 5348.6  | 5429.7  |
| 45°   | 6422.2 | 6498.1 | 6798.1 | 7146.3 | 7205.8 | 6642.4  | 5943.6  | 5539.8  | 5536.0  | 5810.7  | 5819.6  |
| 47.5° | 6979.2 | 7026.0 | 7323.5 | 7703.3 | 7943.8 | 7529.9  | 6707.0  | 6274.0  | 6233.5  | 6484.2  | 6412.0  |
| 50°   | 7491.9 | 7565.3 | 7790.7 | 8205.9 | 8804.7 | 8569.2  | 7710.9  | 7226.0  | 7131.1  | 7365.3  | 7243.8  |
| 52.5° | 7707.1 | 7784.3 | 7974.2 | 8489.5 | 9542.7 | 9913.7  | 8985.7  | 8361.6  | 8203.4  | 8383.1  | 8338.8  |
| 55°   | 7333.6 | 7433.7 | 7610.9 | 8237.5 | 9866.8 | 11464.4 | 10704.9 | 9674.4  | 9559.2  | 9482.0  | 9494.6  |
| 57.5° | 6329.7 | 6424.7 | 6664.0 | 7355.2 | 9479.4 | 12589.9 | 13159.5 | 11361.9 | 11115.0 | 10759.3 | 10820.1 |
| 60°   | 4818.2 | 4877.7 | 5001.8 | 5767.7 | 8331.2 | 12882.3 | 15947.2 | 13495.0 | 13338.0 | 12031.6 | 12074.6 |
| 62.5° | 3421.9 | 3489.0 | 3575.0 | 3957.4 | 6099.3 | 12058.2 | 18129.7 | 16473.8 | 15913.0 | 13349.4 | 13307.7 |
| 65°   | 2778.8 | 2733.2 | 2837.0 | 3015.5 | 3578.8 | 9345.2  | 18620.9 | 20608.4 | 19836.2 | 15085.1 | 14505.2 |
| 67.5° | 2285.0 | 2236.9 | 2339.5 | 2657.2 | 2721.8 | 5424.6  | 16851.1 | 23292.2 | 23137.8 | 16972.6 | 15721.8 |
| 69°   | 2023.0 | 1997.7 | 2087.6 | 2449.6 | 2612.9 | 3852.3  | 14679.9 | 23665.7 | 23702.4 | 18085.4 | 15909.2 |
| 70°   | 1823.0 | 1833.1 | 1920.4 | 2344.5 | 2563.5 | 3176.3  | 12546.8 | 23150.4 | 23461.8 | 18641.1 | 15706.6 |
| 72.5° | 1341.9 | 1363.4 | 1485.0 | 1942.0 | 2516.7 | 2695.2  | 7466.6  | 20221.0 | 20771.7 | 18674.0 | 14368.5 |
| 75°   | 938.1  | 927.9  | 1035.5 | 1462.2 | 2377.5 | 2671.2  | 4385.2  | 15638.3 | 16262.4 | 16140.9 | 12073.4 |
| 77.5° | 614.0  | 630.4  | 716.5  | 1033.0 | 2000.2 | 2650.9  | 2858.5  | 11094.8 | 11499.9 | 10794.8 | 7141.2  |
| 80°   | 433.0  | 431.7  | 479.8  | 705.1  | 1483.7 | 2547.1  | 2340.7  | 6993.1  | 6890.6  | 4242.2  | 2117.9  |
| 82.5° | 248.1  | 265.8  | 321.6  | 496.3  | 992.5  | 2242.0  | 2153.4  | 3344.6  | 3053.5  | 1209.0  | 715.3   |
| 85°   | 138.0  | 144.3  | 191.2  | 300.0  | 579.8  | 1688.8  | 1879.9  | 1521.7  | 1435.6  | 505.1   | 307.6   |
| 87.5° | 44.3   | 48.1   | 79.8   | 151.9  | 263.3  | 797.5   | 1064.7  | 702.6   | 648.2   | 182.3   | 124.1   |
| 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°    | 5279.0  | 5279.0  | 5279.0 | 5279.0 | 5279.0 | 5279.0 | 5279.0 | 5279.0 | 5279.0 | 5279.0 | 5279.0 |
| 2.5°  | 5286.6  | 5301.8  | 5261.3 | 5222.0 | 5186.6 | 5137.2 | 5092.9 | 5056.2 | 5030.9 | 5027.1 | 5014.4 |
| 5°    | 5304.3  | 5305.6  | 5228.4 | 5124.6 | 5023.3 | 4911.9 | 4796.7 | 4714.4 | 4637.2 | 4594.1 | 4572.6 |
| 7.5°  | 5317.0  | 5305.6  | 5166.3 | 4998.0 | 4803.0 | 4600.5 | 4397.9 | 4235.9 | 4110.5 | 4061.2 | 4080.2 |
| 10°   | 5311.9  | 5276.5  | 5072.7 | 4803.0 | 4519.4 | 4216.9 | 3925.7 | 3697.8 | 3489.0 | 3381.4 | 3383.9 |
| 12.5° | 5284.1  | 5225.8  | 4933.4 | 4584.0 | 4167.5 | 3762.4 | 3316.8 | 3009.2 | 2767.4 | 2624.3 | 2580.0 |
| 15°   | 5260.0  | 5158.7  | 4770.1 | 4286.5 | 3768.7 | 3190.2 | 2647.1 | 2267.3 | 2064.8 | 1952.1 | 1950.8 |
| 17.5° | 5234.7  | 5094.2  | 4591.6 | 3971.3 | 3310.5 | 2566.1 | 1996.4 | 1706.5 | 1611.6 | 1622.9 | 1604.0 |
| 20°   | 5208.1  | 5018.2  | 4405.5 | 3620.6 | 2752.2 | 1914.1 | 1495.1 | 1377.4 | 1403.9 | 1455.8 | 1463.4 |
| 22.5° | 5177.7  | 4937.2  | 4205.5 | 3234.5 | 2164.8 | 1440.7 | 1212.8 | 1195.1 | 1263.4 | 1344.4 | 1355.8 |
| 25°   | 5130.9  | 4835.9  | 3953.6 | 2830.7 | 1669.8 | 1160.9 | 1062.1 | 1074.8 | 1141.9 | 1210.2 | 1217.8 |
| 27.5° | 5065.1  | 4710.6  | 3699.1 | 2326.8 | 1254.6 | 996.3  | 971.0  | 987.4  | 1020.4 | 1062.1 | 1072.3 |
| 30°   | 4976.4  | 4568.8  | 3406.7 | 1891.3 | 1005.2 | 914.0  | 903.9  | 912.7  | 931.7  | 949.5  | 954.5  |
| 32.5° | 4887.8  | 4432.1  | 3111.7 | 1448.2 | 896.3  | 859.6  | 849.5  | 849.5  | 849.5  | 852.0  | 853.2  |
| 35°   | 4805.5  | 4303.0  | 2795.2 | 1128.0 | 839.3  | 816.5  | 802.6  | 787.4  | 784.9  | 776.0  | 776.0  |
| 37.5° | 4760.0  | 4185.2  | 2458.5 | 944.4  | 797.5  | 781.1  | 762.1  | 736.8  | 722.9  | 724.1  | 721.6  |
| 40°   | 4768.8  | 4108.0  | 2152.1 | 840.6  | 763.4  | 745.6  | 716.5  | 687.4  | 678.5  | 678.5  | 676.0  |
| 42.5° | 4868.8  | 4082.7  | 1858.4 | 786.2  | 730.5  | 710.2  | 673.5  | 646.9  | 641.8  | 640.6  | 643.1  |
| 45°   | 5099.2  | 4144.7  | 1595.1 | 750.7  | 702.6  | 672.2  | 635.5  | 611.5  | 606.4  | 606.4  | 605.1  |
| 47.5° | 5548.7  | 4346.0  | 1406.5 | 727.9  | 682.3  | 643.1  | 605.1  | 581.1  | 572.2  | 569.7  | 569.7  |
| 50°   | 6247.5  | 4782.8  | 1265.9 | 707.7  | 657.0  | 616.5  | 577.3  | 549.4  | 535.5  | 534.2  | 533.0  |
| 52.5° | 7218.4  | 5463.8  | 1211.5 | 692.5  | 629.2  | 588.7  | 545.6  | 519.0  | 501.3  | 497.5  | 495.0  |
| 55°   | 8354.0  | 6414.6  | 1286.2 | 681.1  | 600.1  | 557.0  | 512.7  | 484.9  | 468.4  | 460.8  | 459.5  |
| 57.5° | 9669.3  | 7556.5  | 1569.8 | 665.9  | 573.5  | 522.8  | 479.8  | 451.9  | 434.2  | 425.4  | 422.8  |
| 60°   | 10850.5 | 8730.0  | 2064.8 | 657.0  | 550.7  | 486.1  | 441.8  | 416.5  | 400.0  | 391.2  | 389.9  |
| 62.5° | 12148.1 | 9849.1  | 2656.0 | 681.1  | 540.6  | 450.7  | 406.4  | 383.6  | 369.7  | 360.8  | 360.8  |
| 65°   | 13534.3 | 10969.5 | 3047.1 | 762.1  | 555.8  | 422.8  | 368.4  | 349.4  | 336.7  | 330.4  | 329.1  |
| 67.5° | 14468.5 | 11356.8 | 2510.4 | 845.7  | 593.7  | 392.4  | 331.7  | 316.5  | 308.9  | 302.6  | 302.6  |
| 69°   | 14367.3 | 10866.9 | 1852.1 | 867.2  | 605.1  | 377.3  | 311.4  | 300.0  | 289.9  | 287.4  | 284.8  |
| 70°   | 14047.0 | 10308.6 | 1552.1 | 853.2  | 596.3  | 363.3  | 298.8  | 284.8  | 276.0  | 273.4  | 272.2  |
| 72.5° | 12511.4 | 8940.1  | 1155.8 | 741.8  | 507.6  | 315.2  | 264.6  | 251.9  | 244.3  | 240.5  | 240.5  |
| 75°   | 10394.7 | 7307.1  | 902.6  | 589.9  | 397.5  | 265.8  | 226.6  | 216.5  | 210.1  | 207.6  | 206.3  |
| 77.5° | 5825.9  | 4080.2  | 648.2  | 462.1  | 301.3  | 215.2  | 189.9  | 181.0  | 174.7  | 172.2  | 172.2  |
| 80°   | 1622.9  | 1165.9  | 381.1  | 305.1  | 205.1  | 163.3  | 150.6  | 144.3  | 135.5  | 129.1  | 132.9  |
| 82.5° | 611.5   | 505.1   | 217.7  | 183.6  | 130.4  | 108.9  | 105.1  | 100.0  | 96.2   | 87.4   | 87.4   |
| 85°   | 297.5   | 245.6   | 139.3  | 97.5   | 72.2   | 57.0   | 54.4   | 51.9   | 49.4   | 43.0   | 44.3   |
| 87.5° | 102.5   | 108.9   | 60.8   | 35.4   | 21.5   | 13.9   | 11.4   | 6.3    | 6.3    | 6.3    | 6.3    |
| 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)