

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: P651469

Luminaire Tested: **GALN-SA6D-840-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651469  
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-SA6D-840-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 1200mA 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: 32360 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

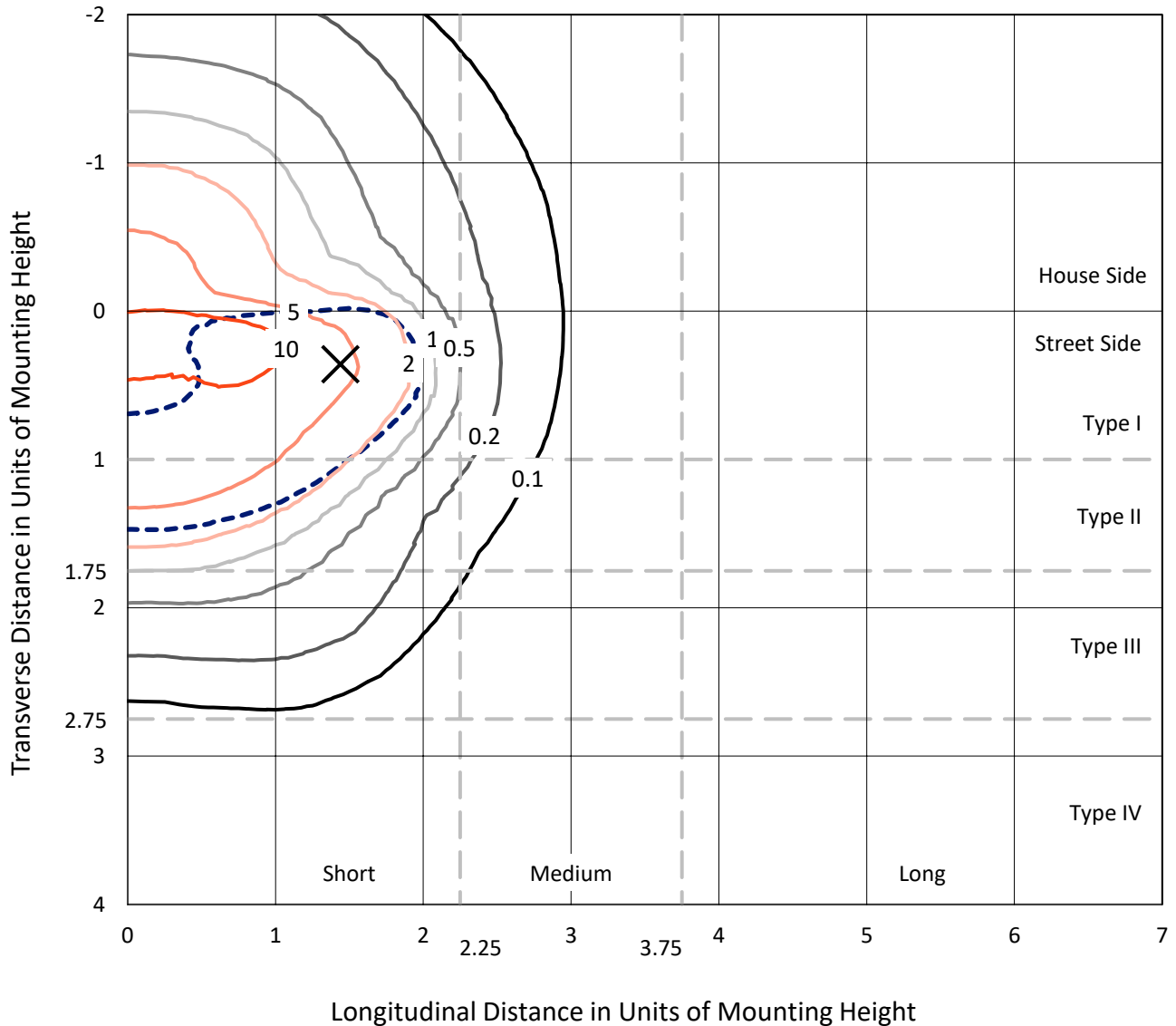
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

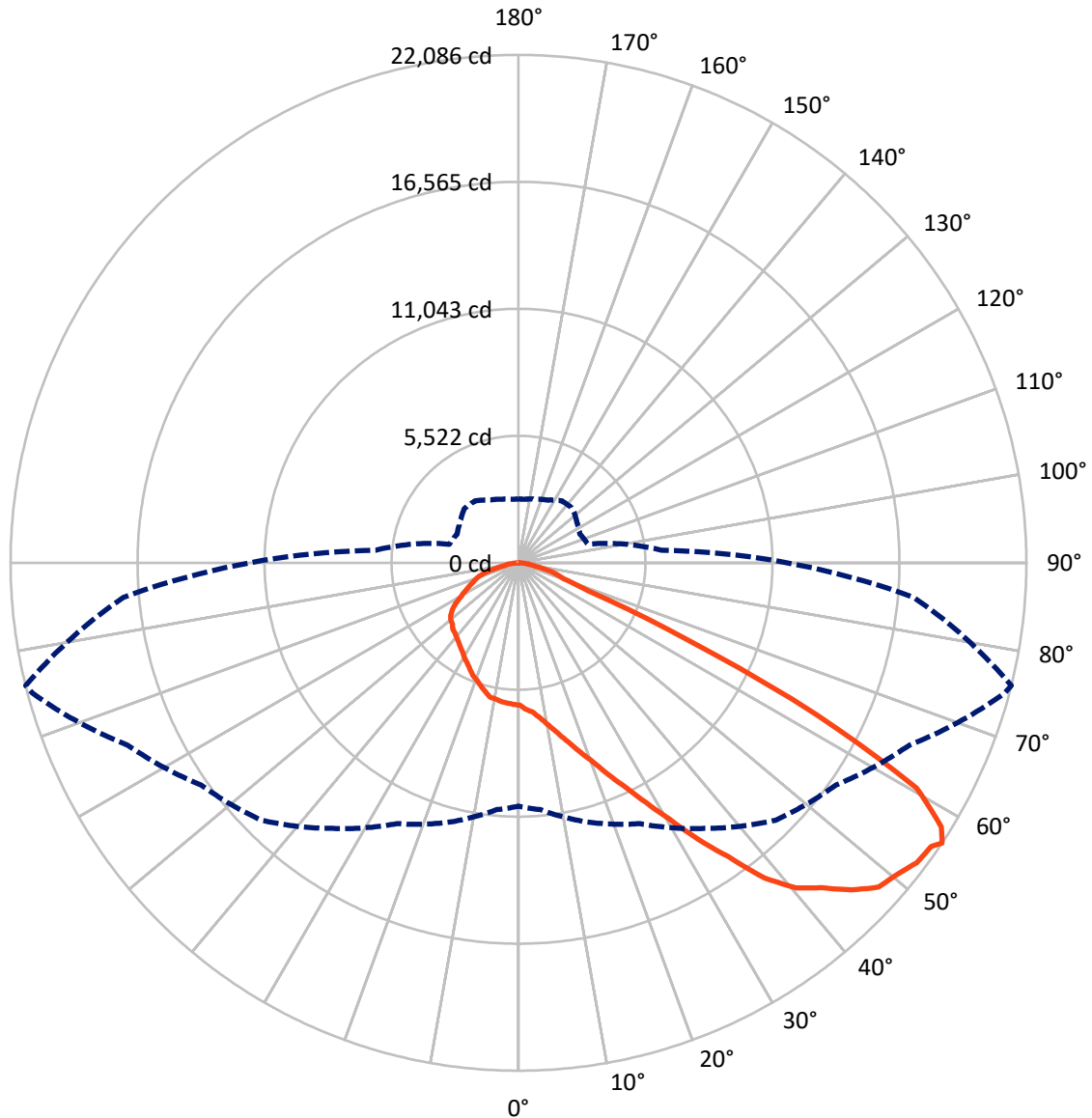
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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    | 8700.6   | 0.0    | 8700.6  |
|                    | % Fixture | 26.9     | 0.0    | 26.9    |
| <b>Street Side</b> | Lumens    | 23659.4  | 0.0    | 23659.4 |
|                    | % Fixture | 73.1     | 0.0    | 73.1    |
| <b>Total</b>       | Lumens    | 32360.0  | 0.0    | 32360.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 614.0   | 1.9       |
| 10°-20°   | 1928.8  | 6.0       |
| 20°-30°   | 3373.3  | 10.4      |
| 30°-40°   | 5281.6  | 16.3      |
| 40°-50°   | 7683.3  | 23.7      |
| 50°-60°   | 8444.4  | 26.1      |
| 60°-70°   | 3769.2  | 11.6      |
| 70°-80°   | 1088.7  | 3.4       |
| 80°-90°   | 176.6   | 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°    | 32360.0 | 100.0     |
| 0°-180°   | 32360.0 | 100.0     |

**Coefficient of Utilization**

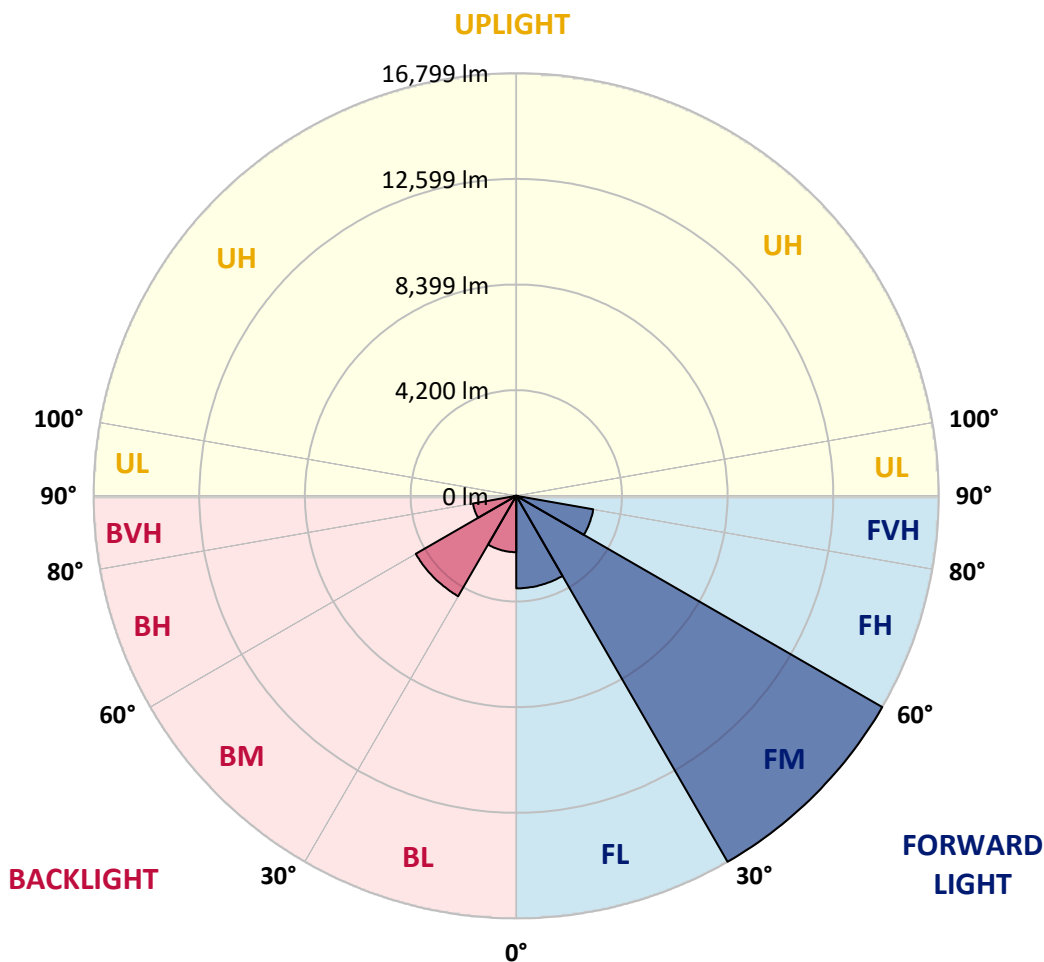


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3677.4  | 11.4      |                         |      |         |
| FM (30°-60°)   | 16798.7 | 51.9      |                         |      |         |
| FH (60°-80°)   | 3107.3  | 9.6       |                         |      | G2/5000 |
| FVH (80°-90°)  | 76.0    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 2238.8  | 6.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 4610.6  | 14.2      | B3/5000                 |      |         |
| BH (60°-80°)   | 1750.6  | 5.4       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 100.6   | 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°    | 6191.7  | 6191.7  | 6191.7  | 6191.7  | 6191.7  | 6191.7  | 6191.7  | 6191.7  | 6191.7  | 6191.7  | 6191.7  |
| 2.5°  | 6820.9  | 6711.9  | 6703.4  | 6674.1  | 6690.8  | 6615.4  | 6535.7  | 6430.8  | 6321.7  | 6388.8  | 6229.5  |
| 5°    | 7299.1  | 7152.3  | 7211.1  | 7110.3  | 7122.9  | 7022.3  | 6858.7  | 6737.0  | 6602.8  | 6523.0  | 6409.8  |
| 7.5°  | 7466.9  | 7479.5  | 7521.5  | 7504.7  | 7420.8  | 7420.8  | 7311.7  | 7097.8  | 6862.8  | 6816.7  | 6627.9  |
| 10°   | 7693.5  | 7697.7  | 7651.5  | 7664.1  | 7781.5  | 7727.0  | 7630.6  | 7538.2  | 7236.2  | 7181.6  | 6846.1  |
| 12.5° | 7773.1  | 7697.7  | 7773.1  | 7840.3  | 7978.7  | 8054.2  | 8033.2  | 7966.1  | 7643.1  | 7605.3  | 7114.5  |
| 15°   | 7785.7  | 7739.6  | 7802.5  | 7953.5  | 8075.2  | 8394.0  | 8553.4  | 8507.2  | 8079.4  | 8083.6  | 7416.6  |
| 17.5° | 7727.0  | 7789.9  | 7815.1  | 7945.2  | 8226.2  | 8524.0  | 8985.5  | 9048.4  | 8696.0  | 8641.5  | 7798.3  |
| 20°   | 7806.7  | 7760.6  | 7794.1  | 7911.5  | 8284.9  | 8750.5  | 9354.6  | 9769.9  | 9274.9  | 9237.2  | 8192.6  |
| 22.5° | 8113.0  | 8050.1  | 8041.6  | 8117.2  | 8385.6  | 8868.0  | 9744.8  | 10491.5 | 9979.6  | 10000.7 | 8683.4  |
| 25°   | 8352.1  | 8385.6  | 8356.3  | 8352.1  | 8519.8  | 9044.2  | 10260.7 | 11351.4 | 10936.1 | 10814.4 | 9262.4  |
| 27.5° | 8763.1  | 8842.9  | 8784.1  | 8863.8  | 8826.0  | 9308.4  | 10629.9 | 12303.7 | 11968.0 | 11804.4 | 9786.7  |
| 30°   | 9333.7  | 9375.6  | 9321.1  | 9321.1  | 9207.8  | 9677.6  | 10965.5 | 13297.8 | 13159.4 | 12937.1 | 10403.3 |
| 32.5° | 10084.5 | 10147.4 | 10038.4 | 9975.4  | 9958.7  | 10227.1 | 11569.6 | 14279.4 | 14514.3 | 14325.6 | 11221.4 |
| 35°   | 11078.7 | 11041.0 | 10911.0 | 10852.2 | 10625.7 | 11070.3 | 12467.2 | 15407.9 | 16024.5 | 15688.9 | 12211.3 |
| 37.5° | 11955.5 | 11896.7 | 11888.4 | 11561.1 | 11615.6 | 11980.6 | 13230.7 | 16263.6 | 17488.5 | 17392.0 | 13255.8 |
| 40°   | 12773.4 | 12828.0 | 12916.1 | 12731.5 | 12647.6 | 13050.3 | 14120.1 | 16918.1 | 18625.4 | 18587.6 | 14061.3 |
| 42.5° | 13650.2 | 13599.9 | 13755.1 | 13599.9 | 13474.0 | 14044.5 | 15084.8 | 17371.1 | 19623.7 | 19313.3 | 14904.5 |
| 45°   | 14921.3 | 14761.8 | 14816.4 | 14828.9 | 14736.7 | 14946.4 | 15483.4 | 17698.3 | 20324.3 | 20290.7 | 15521.2 |
| 47.5° | 15982.5 | 15986.7 | 15894.5 | 15823.2 | 15542.1 | 15751.8 | 15928.0 | 17903.8 | 21129.7 | 21075.2 | 15760.3 |
| 50°   | 16376.9 | 16322.4 | 16590.8 | 16746.1 | 16762.8 | 16334.9 | 16276.2 | 18017.1 | 21553.4 | 21314.3 | 15999.4 |
| 52.5° | 14959.0 | 15009.3 | 15433.0 | 16355.9 | 16888.6 | 16934.8 | 16683.1 | 18252.0 | 21725.4 | 21675.0 | 16192.3 |
| 55°   | 12039.3 | 12282.6 | 12979.0 | 14044.5 | 15307.2 | 16695.7 | 17123.6 | 18495.3 | 21817.6 | 21775.7 | 17048.1 |
| 56°   | 10583.7 | 10772.5 | 11678.6 | 12513.4 | 14099.0 | 15827.4 | 16846.7 | 18755.4 | 21889.0 | 22086.2 | 17249.4 |
| 57.5° | 8519.8  | 8738.0  | 9388.2  | 10336.2 | 12207.1 | 14174.6 | 16083.2 | 18436.6 | 21612.1 | 21687.6 | 17396.3 |
| 60°   | 5327.5  | 5348.5  | 6128.8  | 6753.8  | 8071.0  | 9992.3  | 12274.3 | 16041.3 | 20001.3 | 19892.2 | 15626.0 |
| 62.5° | 3494.4  | 3498.6  | 4207.5  | 4719.3  | 5319.2  | 5759.6  | 7223.6  | 10638.2 | 14757.6 | 14564.7 | 11124.8 |
| 65°   | 2454.0  | 2508.5  | 3058.0  | 3741.9  | 3985.2  | 3754.4  | 3708.3  | 5608.5  | 8243.0  | 7966.1  | 5977.7  |
| 67.5° | 1795.5  | 1799.6  | 2286.3  | 3020.4  | 3372.7  | 2856.7  | 2319.8  | 2739.3  | 3263.7  | 3255.3  | 2768.7  |
| 70°   | 1187.2  | 1237.5  | 1610.9  | 2256.8  | 2659.6  | 2294.6  | 1896.1  | 1959.0  | 2076.5  | 2076.5  | 2059.7  |
| 72.5° | 692.1   | 738.3   | 985.8   | 1430.5  | 1493.4  | 1434.7  | 1501.8  | 1678.0  | 1753.5  | 1749.3  | 1728.3  |
| 75°   | 394.3   | 415.3   | 469.9   | 595.7   | 742.5   | 876.7   | 1103.2  | 1271.1  | 1346.5  | 1392.7  | 1338.2  |
| 77.5° | 230.7   | 243.3   | 276.9   | 339.8   | 385.9   | 474.0   | 599.9   | 717.3   | 818.0   | 805.4   | 813.8   |
| 80°   | 121.7   | 121.7   | 155.2   | 201.3   | 268.4   | 335.6   | 398.5   | 465.7   | 520.2   | 532.8   | 545.3   |
| 82.5° | 71.3    | 75.5    | 100.7   | 146.8   | 192.9   | 239.1   | 306.2   | 352.4   | 402.7   | 406.9   | 415.3   |
| 85°   | 37.8    | 42.0    | 62.9    | 96.5    | 130.0   | 146.8   | 151.0   | 142.6   | 155.2   | 146.8   | 167.8   |
| 87.5° | 12.6    | 12.6    | 20.9    | 16.8    | 16.8    | 20.9    | 25.1    | 25.1    | 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°    | 6191.7  | 6191.7 | 6191.7 | 6191.7 | 6191.7 | 6191.7 | 6191.7 | 6191.7 | 6191.7 | 6191.7 | 6191.7 |
| 2.5°  | 6225.3  | 6225.3 | 6153.9 | 6019.7 | 5998.7 | 5944.2 | 5893.8 | 5889.6 | 5851.8 | 5818.3 | 5801.6 |
| 5°    | 6342.7  | 6212.6 | 6107.8 | 5986.2 | 5843.5 | 5776.4 | 5700.9 | 5617.0 | 5583.4 | 5617.0 | 5612.7 |
| 7.5°  | 6477.0  | 6367.9 | 6053.3 | 5826.7 | 5663.1 | 5596.0 | 5512.1 | 5424.0 | 5432.4 | 5432.4 | 5373.7 |
| 10°   | 6607.0  | 6460.1 | 5956.7 | 5667.3 | 5428.2 | 5377.9 | 5331.7 | 5365.2 | 5407.2 | 5415.6 | 5377.9 |
| 12.5° | 6825.1  | 6493.7 | 5910.6 | 5507.9 | 5356.9 | 5247.8 | 5277.2 | 5369.4 | 5457.6 | 5432.4 | 5461.8 |
| 15°   | 6988.7  | 6523.0 | 5700.9 | 5344.3 | 5155.5 | 5205.9 | 5310.7 | 5373.7 | 5520.5 | 5503.7 | 5533.1 |
| 17.5° | 7148.1  | 6539.9 | 5495.3 | 5126.1 | 5046.5 | 5184.9 | 5264.6 | 5445.0 | 5491.1 | 5591.8 | 5629.6 |
| 20°   | 7475.3  | 6573.4 | 5285.6 | 4991.9 | 4966.8 | 5126.1 | 5264.6 | 5348.5 | 5449.2 | 5537.2 | 5537.2 |
| 22.5° | 7643.1  | 6556.6 | 5147.2 | 4815.7 | 4895.5 | 4996.1 | 5121.9 | 5264.6 | 5264.6 | 5348.5 | 5352.7 |
| 25°   | 7852.8  | 6489.5 | 4929.0 | 4731.9 | 4790.6 | 4887.1 | 5029.7 | 4979.3 | 5033.9 | 5033.9 | 5101.0 |
| 27.5° | 8091.9  | 6346.9 | 4740.2 | 4580.8 | 4698.2 | 4803.1 | 4824.1 | 4790.6 | 4727.7 | 4719.3 | 4694.1 |
| 30°   | 8284.9  | 6170.7 | 4601.8 | 4530.5 | 4627.0 | 4685.7 | 4618.6 | 4547.3 | 4438.2 | 4429.8 | 4371.1 |
| 32.5° | 8549.2  | 5952.6 | 4429.8 | 4404.7 | 4513.7 | 4517.9 | 4496.9 | 4387.8 | 4228.5 | 4161.4 | 4094.2 |
| 35°   | 8993.8  | 5826.7 | 4299.8 | 4337.5 | 4371.1 | 4358.5 | 4320.7 | 4203.3 | 4043.9 | 4014.5 | 3989.4 |
| 37.5° | 9321.1  | 5734.4 | 4165.6 | 4211.6 | 4241.1 | 4257.8 | 4144.5 | 4014.5 | 4018.7 | 3960.0 | 3943.2 |
| 40°   | 9690.3  | 5675.7 | 4056.5 | 4077.4 | 4081.6 | 4136.2 | 3997.8 | 3934.8 | 3964.1 | 3926.5 | 3951.6 |
| 42.5° | 10164.2 | 5692.5 | 3943.2 | 3926.5 | 4006.1 | 3985.2 | 3918.1 | 3834.1 | 3850.9 | 3737.7 | 3754.4 |
| 45°   | 10416.0 | 5805.8 | 3876.1 | 3800.6 | 3888.7 | 3884.5 | 3796.4 | 3716.7 | 3616.0 | 3397.9 | 3406.2 |
| 47.5° | 10583.7 | 5835.1 | 3716.7 | 3666.3 | 3758.6 | 3813.2 | 3712.5 | 3527.9 | 3385.3 | 3230.1 | 3192.4 |
| 50°   | 10755.7 | 5889.6 | 3641.2 | 3536.3 | 3574.1 | 3704.1 | 3578.3 | 3402.1 | 3263.7 | 3125.2 | 3146.2 |
| 52.5° | 10906.8 | 5994.5 | 3494.4 | 3339.1 | 3406.2 | 3548.9 | 3481.7 | 3267.8 | 3116.8 | 3003.5 | 2970.0 |
| 55°   | 11577.9 | 6229.5 | 3246.8 | 3045.5 | 3204.9 | 3385.3 | 3347.5 | 3087.5 | 2923.8 | 2865.1 | 2856.7 |
| 56°   | 11682.8 | 6237.8 | 3116.8 | 2944.8 | 3091.6 | 3330.8 | 3284.6 | 3007.8 | 2860.9 | 2768.7 | 2772.9 |
| 57.5° | 11699.6 | 6137.1 | 2932.2 | 2852.5 | 2978.4 | 3251.1 | 3192.4 | 2944.8 | 2743.4 | 2659.6 | 2634.4 |
| 60°   | 10294.3 | 4790.6 | 2701.5 | 2651.2 | 2798.0 | 3007.8 | 2986.7 | 2772.9 | 2546.3 | 2449.8 | 2496.0 |
| 62.5° | 7018.1  | 3511.1 | 2521.1 | 2512.7 | 2588.3 | 2793.8 | 2739.3 | 2546.3 | 2357.5 | 2294.6 | 2265.2 |
| 65°   | 4085.8  | 2663.8 | 2345.0 | 2311.4 | 2374.3 | 2483.4 | 2521.1 | 2319.8 | 2122.6 | 2080.6 | 2068.1 |
| 67.5° | 2412.1  | 2202.3 | 2118.4 | 2063.9 | 2043.0 | 2110.1 | 2139.4 | 2021.9 | 1824.8 | 1766.0 | 1816.4 |
| 70°   | 2017.7  | 1959.0 | 1963.2 | 1870.9 | 1820.6 | 1774.4 | 1749.3 | 1644.4 | 1480.8 | 1405.3 | 1384.3 |
| 72.5° | 1740.9  | 1715.7 | 1698.9 | 1615.1 | 1568.9 | 1464.0 | 1354.9 | 1250.1 | 1128.5 | 1065.5 | 1069.7 |
| 75°   | 1329.8  | 1321.4 | 1329.8 | 1287.8 | 1208.1 | 1124.2 | 1023.6 | 889.4  | 797.0  | 717.3  | 734.1  |
| 77.5° | 792.8   | 818.0  | 830.6  | 813.8  | 780.3  | 704.8  | 641.9  | 553.7  | 465.7  | 402.7  | 394.3  |
| 80°   | 545.3   | 566.3  | 587.3  | 566.3  | 532.8  | 478.2  | 411.1  | 344.0  | 281.1  | 247.5  | 239.1  |
| 82.5° | 415.3   | 436.3  | 448.8  | 427.9  | 385.9  | 327.2  | 281.1  | 234.9  | 184.6  | 151.0  | 142.6  |
| 85°   | 151.0   | 172.0  | 167.8  | 201.3  | 218.2  | 209.7  | 180.4  | 138.4  | 104.9  | 75.5   | 71.3   |
| 87.5° | 42.0    | 37.8   | 42.0   | 42.0   | 42.0   | 37.8   | 33.6   | 33.6   | 33.6   | 20.9   | 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)