

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: P531403

Luminaire Tested: **GALN-SA6D-722-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-722-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19683 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

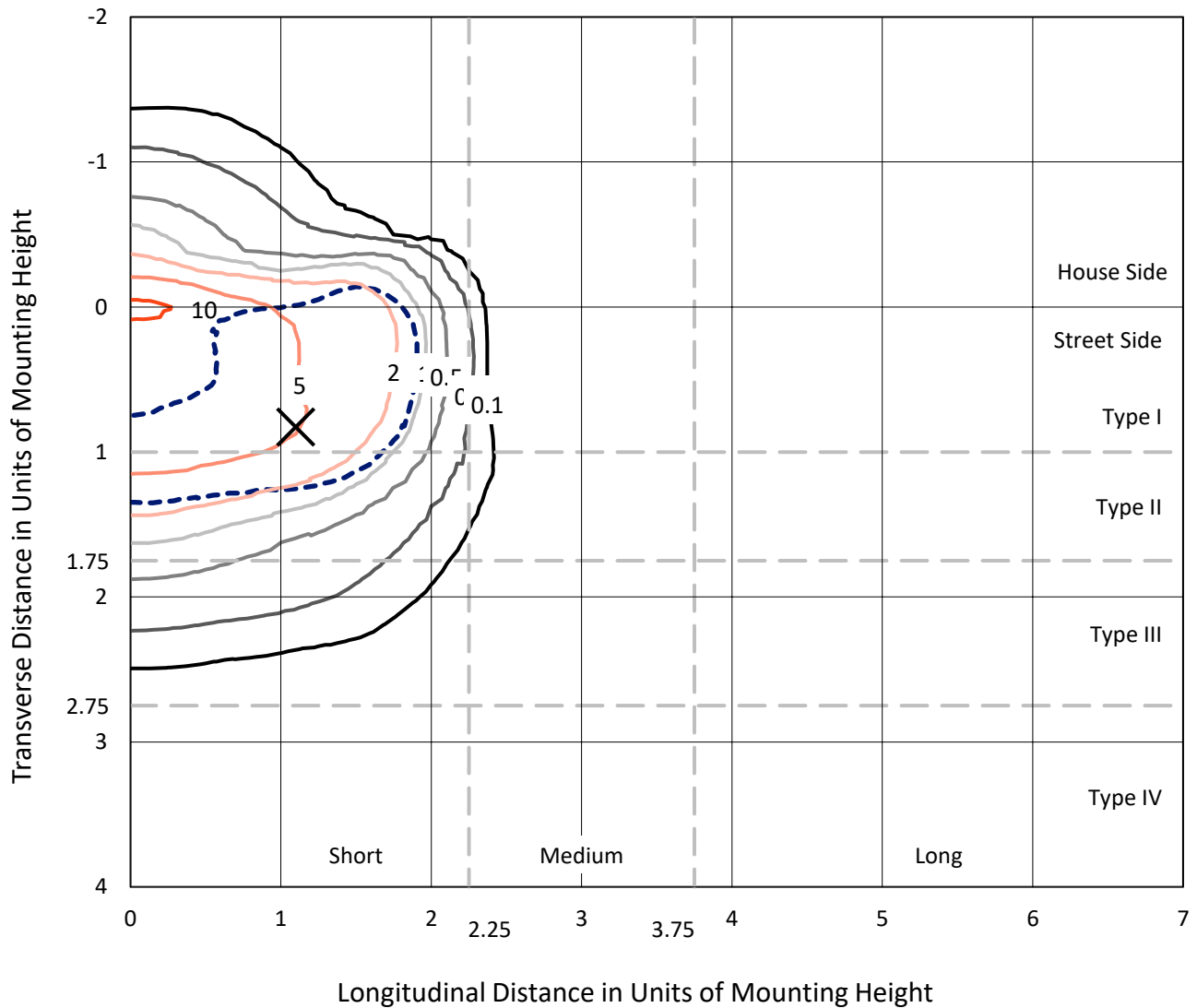
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

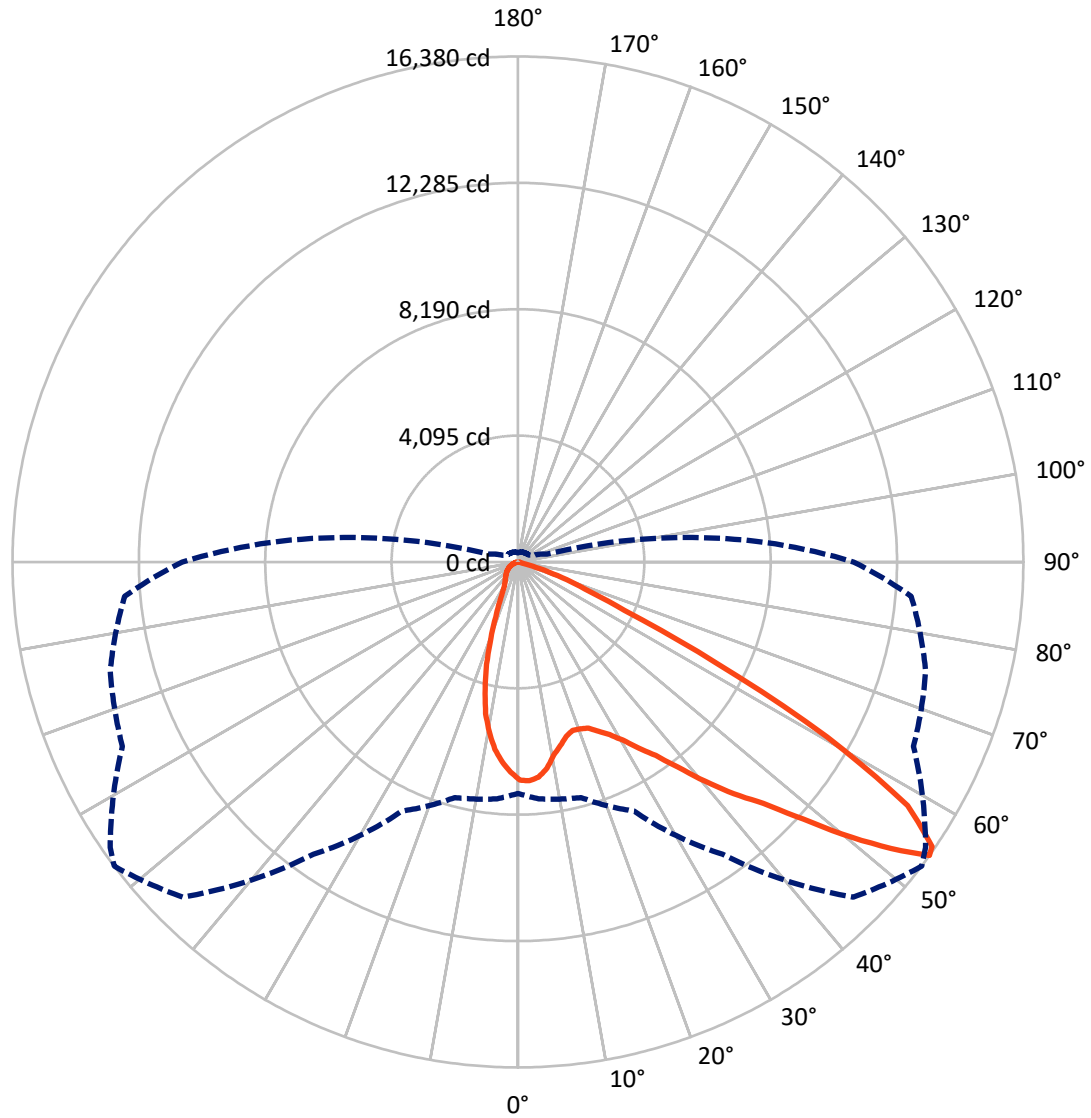
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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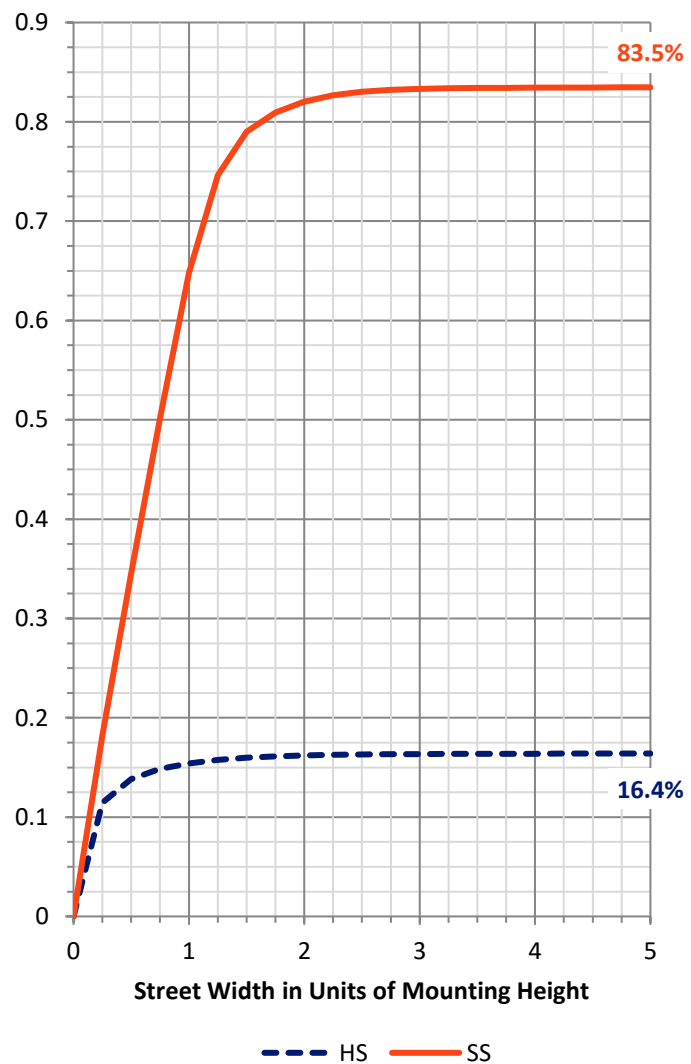
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3256.6 | 0.0 | 3256.6 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 16426.4 | 0.0 | 16426.4 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 19683.0 | 0.0 | 19683.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 606.6 | 3.1 |
| 10°-20° | 1390.7 | 7.1 |
| 20°-30° | 1976.5 | 10.0 |
| 30°-40° | 3050.2 | 15.5 |
| 40°-50° | 4782.4 | 24.3 |
| 50°-60° | 5555.4 | 28.2 |
| 60°-70° | 2099.2 | 10.7 |
| 70°-80° | 199.6 | 1.0 |
| 80°-90° | 22.5 | 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° | 19683.0 | 100.0 |
| 0°-180° | 19683.0 | 100.0 |

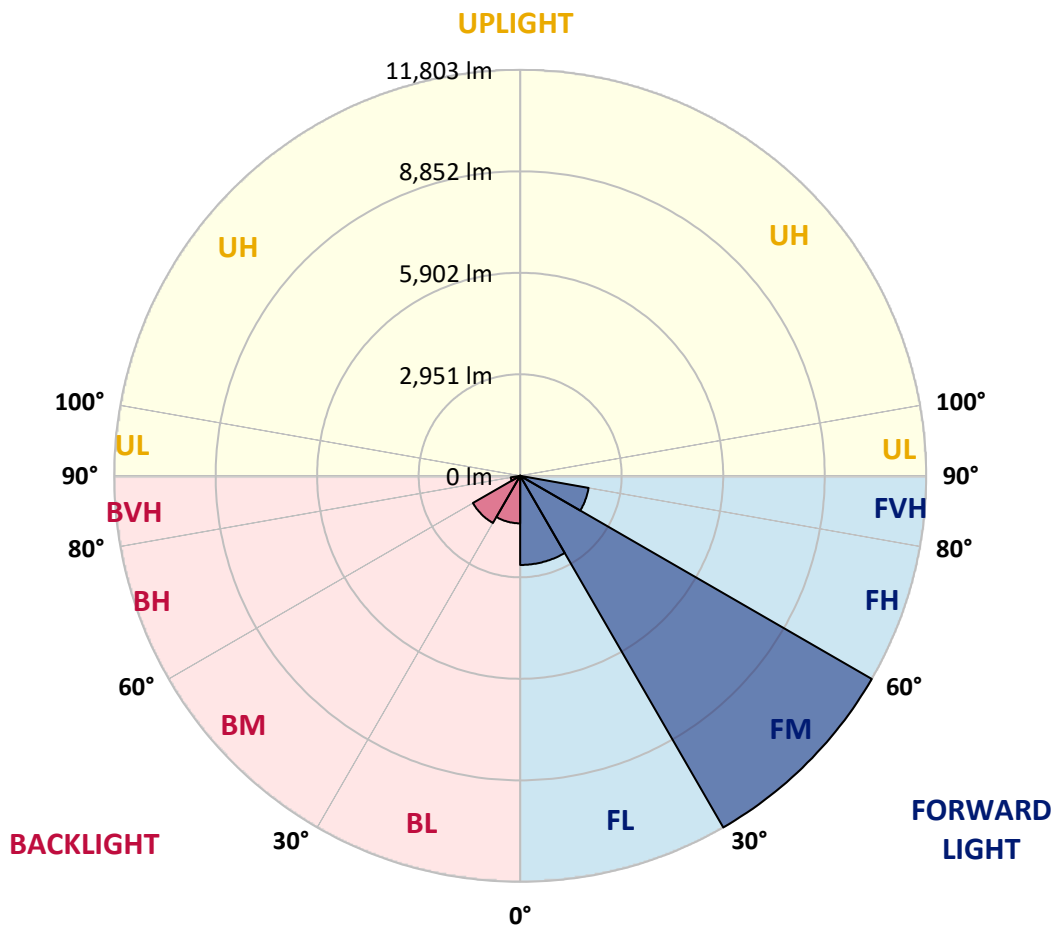


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2591.7 | 13.2 | | | |
| FM (30°-60°) | 11803.3 | 60.0 | | | |
| FH (60°-80°) | 2019.8 | 10.3 | | | G2/5000 |
| FVH (80°-90°) | 11.6 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1382.0 | 7.0 | B3/2500 | | |
| BM (30°-60°) | 1584.8 | 8.1 | B2/2500 | | |
| BH (60°-80°) | 279.0 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 10.9 | 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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7069.8 | 7069.8 | 7069.8 | 7069.8 | 7069.8 | 7069.8 | 7069.8 | 7069.8 | 7069.8 | 7069.8 | 7069.8 |
| 2.5° | 7033.1 | 6970.8 | 7033.1 | 7040.5 | 7084.5 | 7124.8 | 7099.1 | 7157.8 | 7124.8 | 7088.1 | 7077.1 |
| 5° | 6464.8 | 6549.1 | 6552.8 | 6684.8 | 6655.4 | 6897.5 | 7003.8 | 6974.5 | 7154.1 | 7143.1 | 7117.5 |
| 7.5° | 5955.1 | 5922.1 | 5966.1 | 6120.1 | 6314.4 | 6593.1 | 6747.1 | 6743.4 | 7000.1 | 7183.5 | 7165.1 |
| 10° | 5482.0 | 5478.4 | 5570.0 | 5691.0 | 5856.1 | 6149.4 | 6362.1 | 6468.4 | 6868.1 | 7146.8 | 7187.1 |
| 12.5° | 5163.0 | 5148.3 | 5247.3 | 5346.4 | 5606.7 | 5834.1 | 6105.4 | 6156.7 | 6615.1 | 7018.5 | 7084.5 |
| 15° | 4954.0 | 4987.0 | 4994.3 | 5185.0 | 5350.0 | 5650.7 | 5863.4 | 5969.7 | 6497.8 | 6915.8 | 7168.8 |
| 17.5° | 4917.3 | 4961.3 | 4965.0 | 5122.7 | 5298.7 | 5551.7 | 5738.7 | 5881.7 | 6398.8 | 6967.1 | 7172.5 |
| 20° | 4990.7 | 4965.0 | 4987.0 | 5086.0 | 5258.3 | 5500.4 | 5771.7 | 5819.4 | 6365.8 | 6992.8 | 7212.8 |
| 22.5° | 5199.7 | 5192.3 | 5137.3 | 5218.0 | 5339.0 | 5592.0 | 5848.7 | 5922.1 | 6461.1 | 7124.8 | 7245.8 |
| 25° | 5430.7 | 5471.0 | 5419.7 | 5408.7 | 5493.0 | 5742.4 | 6083.4 | 6178.7 | 6780.1 | 7363.2 | 7348.5 |
| 27.5° | 5863.4 | 5823.1 | 5823.1 | 5771.7 | 5749.7 | 5870.7 | 6336.4 | 6494.1 | 7135.8 | 7671.2 | 7465.8 |
| 30° | 6277.7 | 6321.8 | 6288.7 | 6307.1 | 6160.4 | 6149.4 | 6695.8 | 6890.1 | 7766.5 | 8140.5 | 7715.2 |
| 32.5° | 6934.1 | 6875.5 | 6930.5 | 6882.8 | 6688.4 | 6490.4 | 7183.5 | 7385.2 | 8529.2 | 8679.6 | 8089.2 |
| 35° | 7480.5 | 7454.8 | 7689.5 | 7682.2 | 7366.8 | 7172.5 | 7700.5 | 8001.2 | 9060.9 | 9325.0 | 8529.2 |
| 37.5° | 8257.9 | 8210.2 | 8477.9 | 8606.2 | 8323.9 | 8034.2 | 8441.2 | 8789.6 | 9556.0 | 9842.0 | 8980.3 |
| 40° | 9057.3 | 9178.3 | 9537.6 | 9750.3 | 9449.6 | 9064.6 | 9347.0 | 9453.3 | 9886.0 | 10179.3 | 9288.3 |
| 42.5° | 10069.3 | 10245.3 | 10612.0 | 10795.4 | 10769.7 | 10351.7 | 10267.3 | 10263.7 | 10124.3 | 10084.0 | 9515.6 |
| 45° | 11041.1 | 10975.1 | 11539.8 | 11939.5 | 12262.1 | 12141.1 | 11154.7 | 11044.7 | 10502.0 | 10227.0 | 9574.3 |
| 47.5° | 11466.4 | 11444.4 | 11829.5 | 12540.8 | 13640.9 | 13791.2 | 12445.5 | 12020.1 | 11140.1 | 10828.4 | 9893.3 |
| 50° | 10916.4 | 11030.1 | 11411.4 | 12199.8 | 13886.6 | 15034.3 | 14029.6 | 13457.6 | 11884.5 | 11561.8 | 10648.7 |
| 52.5° | 9119.6 | 9196.6 | 9559.6 | 10560.7 | 13050.5 | 15767.7 | 15547.7 | 15217.7 | 13252.2 | 12716.8 | 11965.1 |
| 54° | 7498.8 | 7704.2 | 7902.2 | 8906.9 | 11561.8 | 15360.7 | 16380.1 | 16127.1 | 14143.3 | 13677.6 | 12793.8 |
| 55° | 6530.8 | 6651.8 | 6794.8 | 7795.8 | 10531.4 | 14671.3 | 16284.7 | 16306.7 | 14741.0 | 13978.3 | 13351.2 |
| 57.5° | 4770.6 | 4855.0 | 4708.3 | 5152.0 | 7231.1 | 11913.8 | 14895.0 | 15489.0 | 15547.7 | 14429.3 | 13692.2 |
| 60° | 3644.9 | 3681.6 | 3516.6 | 3586.2 | 4495.6 | 8177.2 | 11521.4 | 12236.5 | 14025.9 | 12610.5 | 11598.4 |
| 62.5° | 2827.2 | 2834.5 | 2830.9 | 2951.9 | 3098.5 | 4811.0 | 7205.5 | 7839.9 | 9669.6 | 8954.6 | 7876.5 |
| 65° | 2082.8 | 2049.8 | 2108.5 | 2475.2 | 2643.8 | 3025.2 | 3795.3 | 4257.3 | 5254.7 | 4437.0 | 3171.9 |
| 67.5° | 1349.4 | 1360.4 | 1419.1 | 1840.8 | 2266.2 | 2321.2 | 2335.8 | 2299.2 | 2302.8 | 1268.8 | 795.7 |
| 70° | 810.4 | 828.7 | 810.4 | 1041.4 | 1620.8 | 1664.8 | 1521.8 | 1485.1 | 1158.7 | 300.7 | 297.0 |
| 72.5° | 480.4 | 454.7 | 407.0 | 447.4 | 674.7 | 806.7 | 726.0 | 722.4 | 454.7 | 176.0 | 176.0 |
| 75° | 201.7 | 183.3 | 150.3 | 135.7 | 179.7 | 172.3 | 172.3 | 154.0 | 121.0 | 117.3 | 110.0 |
| 77.5° | 40.3 | 40.3 | 29.3 | 33.0 | 44.0 | 51.3 | 62.3 | 62.3 | 73.3 | 73.3 | 69.7 |
| 80° | 0.0 | 3.7 | 11.0 | 22.0 | 33.0 | 47.7 | 55.0 | 55.0 | 62.3 | 62.3 | 51.3 |
| 82.5° | 0.0 | 3.7 | 11.0 | 22.0 | 29.3 | 44.0 | 55.0 | 55.0 | 62.3 | 66.0 | 55.0 |
| 85° | 0.0 | 3.7 | 11.0 | 18.3 | 29.3 | 36.7 | 36.7 | 33.0 | 25.7 | 22.0 | 14.7 |
| 87.5° | 0.0 | 0.0 | 3.7 | 7.3 | 3.7 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 |
| 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° | 7069.8 | 7069.8 | 7069.8 | 7069.8 | 7069.8 | 7069.8 | 7069.8 | 7069.8 | 7069.8 | 7069.8 | 7069.8 |
| 2.5° | 7102.8 | 7099.1 | 7011.1 | 6868.1 | 6835.1 | 6714.1 | 6699.4 | 6626.1 | 6666.4 | 6530.8 | 6516.1 |
| 5° | 7044.1 | 7000.1 | 6893.8 | 6802.1 | 6534.4 | 6343.8 | 6193.4 | 6010.1 | 5903.7 | 5922.1 | 5852.4 |
| 7.5° | 7128.5 | 7014.8 | 6827.8 | 6508.8 | 6182.4 | 5848.7 | 5669.0 | 5295.0 | 5159.3 | 4957.7 | 4928.3 |
| 10° | 7040.5 | 6956.1 | 6666.4 | 6138.4 | 5687.4 | 5207.0 | 4785.3 | 4371.0 | 4055.6 | 3919.9 | 3890.6 |
| 12.5° | 7033.1 | 6886.5 | 6402.4 | 5815.7 | 5163.0 | 4473.6 | 3861.3 | 3344.2 | 3032.5 | 2856.5 | 2816.2 |
| 15° | 6919.5 | 6743.4 | 6105.4 | 5317.0 | 4415.0 | 3556.9 | 2889.5 | 2390.8 | 2152.5 | 2049.8 | 2079.1 |
| 17.5° | 6930.5 | 6666.4 | 5808.4 | 4789.0 | 3677.9 | 2610.8 | 1972.8 | 1716.1 | 1653.8 | 1679.4 | 1679.4 |
| 20° | 6919.5 | 6494.1 | 5449.0 | 4180.3 | 2816.2 | 1811.5 | 1448.4 | 1356.8 | 1397.1 | 1477.8 | 1459.4 |
| 22.5° | 6860.8 | 6413.4 | 5119.0 | 3538.6 | 2071.8 | 1342.1 | 1162.4 | 1166.1 | 1228.4 | 1327.4 | 1349.4 |
| 25° | 6904.8 | 6233.7 | 4701.0 | 2889.5 | 1510.8 | 1070.7 | 1008.4 | 1034.1 | 1100.1 | 1173.4 | 1188.1 |
| 27.5° | 6871.8 | 6105.4 | 4264.6 | 2244.1 | 1103.7 | 920.4 | 916.7 | 946.1 | 975.4 | 1030.4 | 1030.4 |
| 30° | 6908.5 | 5988.1 | 3835.6 | 1668.4 | 909.4 | 843.4 | 828.7 | 850.7 | 880.1 | 891.1 | 887.4 |
| 32.5° | 7044.1 | 5900.1 | 3340.6 | 1246.7 | 803.1 | 770.1 | 770.1 | 770.1 | 766.4 | 781.1 | 784.7 |
| 35° | 7341.2 | 5914.7 | 2904.2 | 964.4 | 733.4 | 707.7 | 696.7 | 682.0 | 674.7 | 682.0 | 685.7 |
| 37.5° | 7663.8 | 5907.4 | 2453.2 | 821.4 | 682.0 | 660.0 | 634.4 | 612.4 | 608.7 | 616.0 | 605.0 |
| 40° | 7806.9 | 5977.1 | 2035.1 | 737.0 | 634.4 | 608.7 | 568.4 | 550.0 | 553.7 | 561.0 | 553.7 |
| 42.5° | 8001.2 | 5999.1 | 1763.8 | 671.0 | 590.4 | 550.0 | 524.4 | 502.4 | 498.7 | 509.7 | 506.0 |
| 45° | 7997.5 | 5874.4 | 1477.8 | 634.4 | 550.0 | 506.0 | 473.0 | 454.7 | 454.7 | 462.0 | 465.7 |
| 47.5° | 8232.2 | 5856.1 | 1268.8 | 601.4 | 520.7 | 476.7 | 436.4 | 421.7 | 418.0 | 418.0 | 410.7 |
| 50° | 8778.6 | 6112.7 | 1107.4 | 564.7 | 484.0 | 443.7 | 410.7 | 392.4 | 377.7 | 370.4 | 366.7 |
| 52.5° | 9845.7 | 6912.1 | 982.7 | 520.7 | 443.7 | 410.7 | 381.4 | 366.7 | 348.4 | 330.0 | 326.4 |
| 54° | 10879.7 | 7737.2 | 975.4 | 484.0 | 410.7 | 388.7 | 363.0 | 355.7 | 333.7 | 308.0 | 300.7 |
| 55° | 11345.4 | 8217.5 | 1001.1 | 454.7 | 388.7 | 374.0 | 352.0 | 344.7 | 322.7 | 293.4 | 289.7 |
| 57.5° | 11730.4 | 8404.6 | 986.4 | 377.7 | 352.0 | 348.4 | 330.0 | 319.0 | 293.4 | 253.0 | 245.7 |
| 60° | 9442.3 | 6354.8 | 707.7 | 333.7 | 322.7 | 315.4 | 300.7 | 293.4 | 260.4 | 216.3 | 212.7 |
| 62.5° | 5966.1 | 3655.9 | 451.0 | 293.4 | 282.4 | 271.4 | 253.0 | 245.7 | 216.3 | 172.3 | 161.3 |
| 65° | 2541.2 | 1514.4 | 304.4 | 260.4 | 242.0 | 223.7 | 209.0 | 198.0 | 172.3 | 128.3 | 124.7 |
| 67.5° | 660.0 | 539.0 | 253.0 | 227.3 | 201.7 | 176.0 | 165.0 | 146.7 | 117.3 | 88.0 | 84.3 |
| 70° | 297.0 | 271.4 | 212.7 | 190.7 | 161.3 | 135.7 | 121.0 | 102.7 | 77.0 | 58.7 | 55.0 |
| 72.5° | 176.0 | 172.3 | 161.3 | 143.0 | 121.0 | 102.7 | 88.0 | 69.7 | 51.3 | 33.0 | 33.0 |
| 75° | 110.0 | 106.3 | 110.0 | 99.0 | 84.3 | 77.0 | 66.0 | 47.7 | 29.3 | 14.7 | 14.7 |
| 77.5° | 66.0 | 66.0 | 66.0 | 62.3 | 58.7 | 58.7 | 47.7 | 29.3 | 14.7 | 3.7 | 3.7 |
| 80° | 51.3 | 51.3 | 55.0 | 51.3 | 51.3 | 51.3 | 40.3 | 22.0 | 7.3 | 0.0 | 0.0 |
| 82.5° | 51.3 | 55.0 | 62.3 | 58.7 | 51.3 | 44.0 | 36.7 | 22.0 | 7.3 | 0.0 | 0.0 |
| 85° | 14.7 | 11.0 | 18.3 | 25.7 | 36.7 | 33.0 | 25.7 | 18.3 | 7.3 | 0.0 | 0.0 |
| 87.5° | 7.3 | 7.3 | 7.3 | 7.3 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 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)