

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: P529116

Luminaire Tested: **GALN-SA4B-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529116
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-SA4B-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA 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: 17376 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

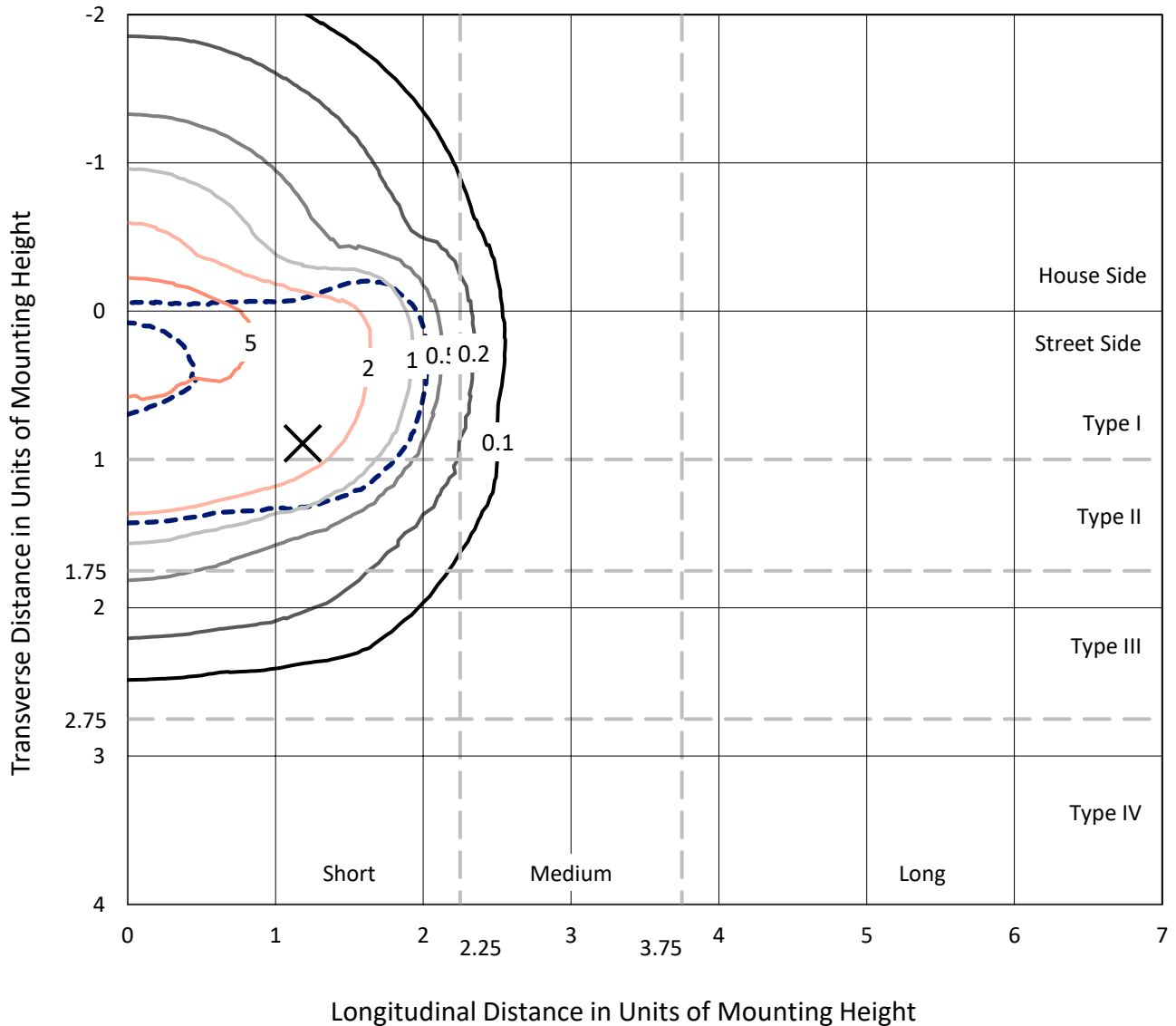
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

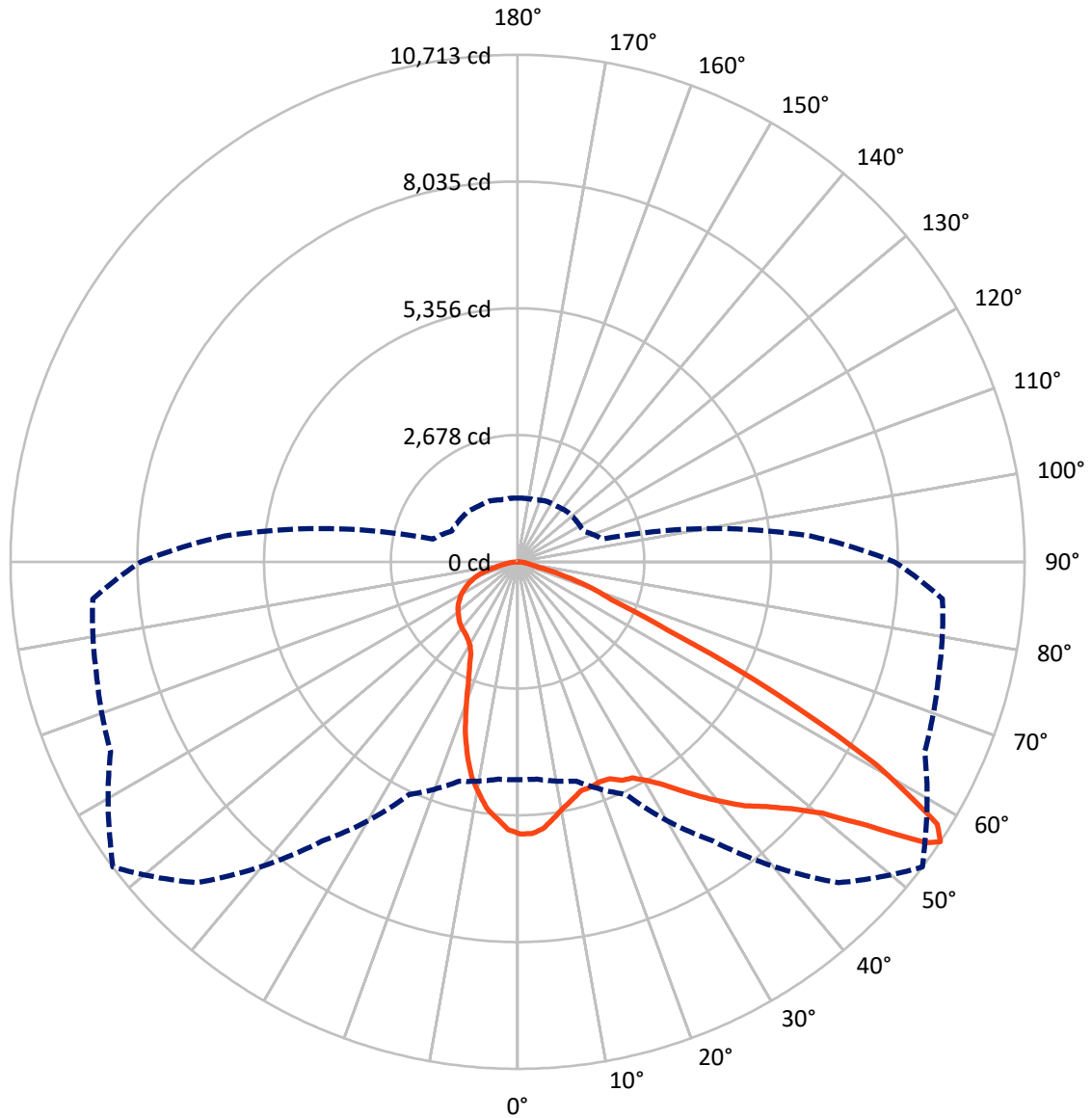
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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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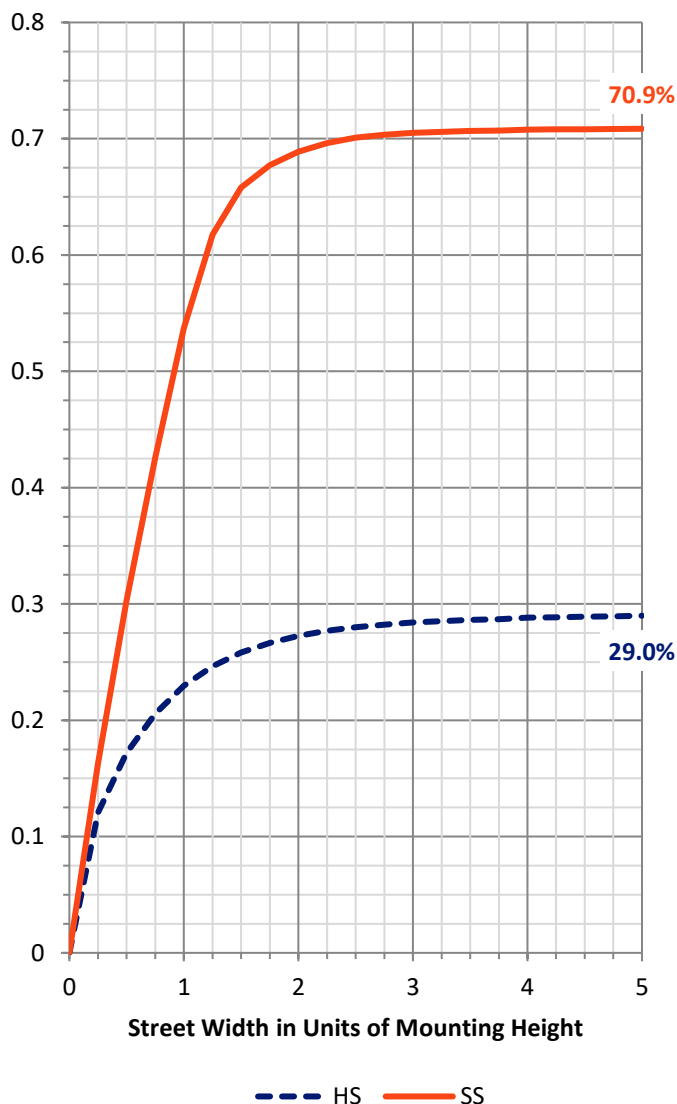
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5070.7 | 0.0 | 5070.7 |
| | % Fixture | 29.2 | 0.0 | 29.2 |
| Street Side | Lumens | 12305.3 | 0.0 | 12305.3 |
| | % Fixture | 70.8 | 0.0 | 70.8 |
| Total | Lumens | 17376.0 | 0.0 | 17376.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 508.9 | 2.9 |
| 10°-20° | 1271.1 | 7.3 |
| 20°-30° | 1874.3 | 10.8 |
| 30°-40° | 2678.0 | 15.4 |
| 40°-50° | 3685.9 | 21.2 |
| 50°-60° | 4355.8 | 25.1 |
| 60°-70° | 2321.3 | 13.4 |
| 70°-80° | 588.9 | 3.4 |
| 80°-90° | 91.8 | 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° | 17376.0 | 100.0 |
| 0°-180° | 17376.0 | 100.0 |

Coefficient of Utilization



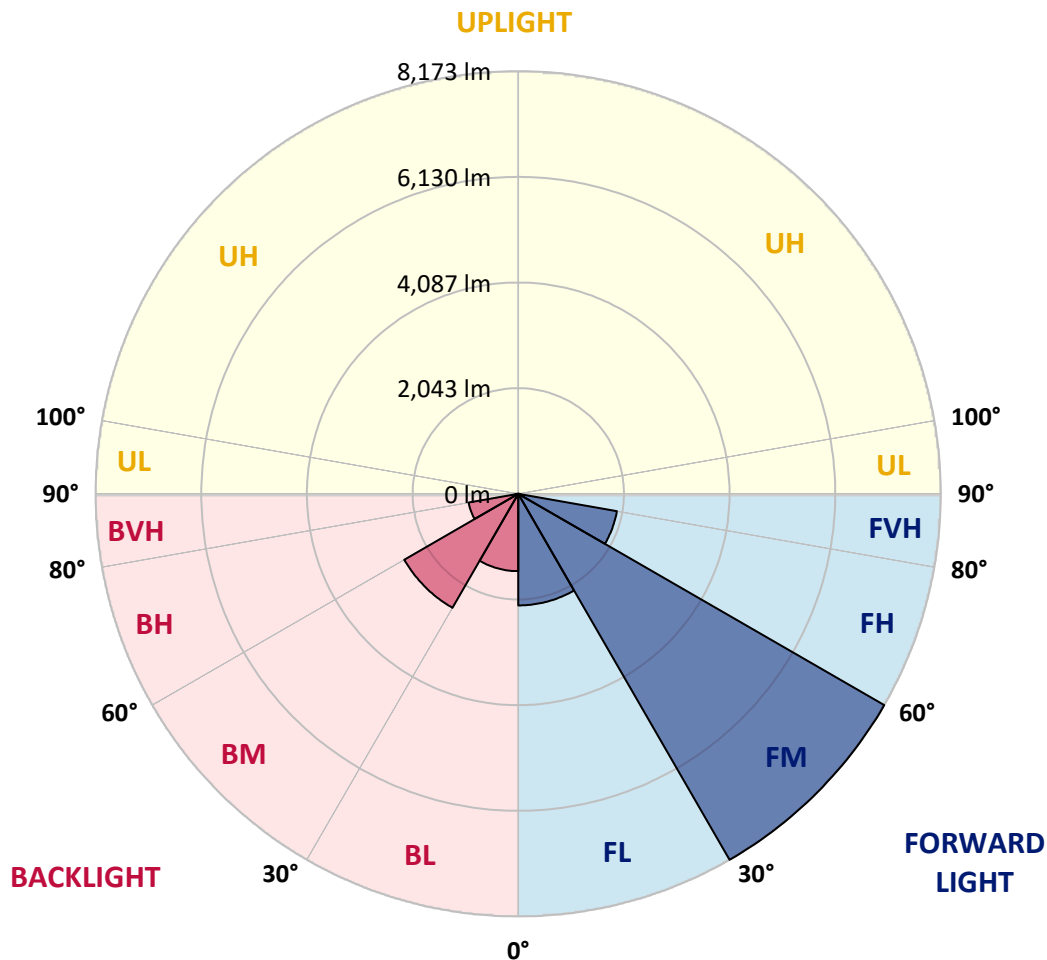
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2158.7 | 12.4 | | | |
| FM (30°-60°) | 8173.3 | 47.0 | | | |
| FH (60°-80°) | 1936.3 | 11.1 | | | G2/5000 |
| FVH (80°-90°) | 36.9 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1495.6 | 8.6 | B3/2500 | | |
| BM (30°-60°) | 2546.3 | 14.7 | B3/5000 | | |
| BH (60°-80°) | 973.9 | 5.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 54.9 | 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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|
| 0° | 5748.7 | 5748.7 | 5748.7 | 5748.7 | 5748.7 | 5748.7 | 5748.7 | 5748.7 | 5748.7 | 5748.7 | 5748.7 |
| 2.5° | 5677.3 | 5628.3 | 5657.3 | 5646.1 | 5737.5 | 5764.3 | 5750.9 | 5762.0 | 5813.3 | 5788.8 | 5737.5 |
| 5° | 5305.1 | 5374.2 | 5387.6 | 5421.0 | 5474.5 | 5579.3 | 5661.7 | 5684.0 | 5708.5 | 5822.2 | 5811.1 |
| 7.5° | 4966.3 | 5013.1 | 4988.6 | 5086.6 | 5202.6 | 5372.0 | 5472.3 | 5490.1 | 5715.2 | 5777.6 | 5824.5 |
| 10° | 4752.3 | 4705.5 | 4816.9 | 4843.7 | 4975.2 | 5169.1 | 5289.5 | 5363.0 | 5568.1 | 5815.5 | 5844.5 |
| 12.5° | 4553.9 | 4538.3 | 4605.2 | 4681.0 | 4828.1 | 5028.7 | 5151.3 | 5180.3 | 5496.8 | 5757.6 | 5893.6 |
| 15° | 4406.8 | 4389.0 | 4455.8 | 4511.6 | 4683.2 | 4861.5 | 5017.5 | 5100.0 | 5418.8 | 5724.1 | 5851.2 |
| 17.5° | 4290.9 | 4288.7 | 4326.5 | 4426.9 | 4602.9 | 4752.3 | 5004.2 | 5008.6 | 5378.6 | 5775.4 | 5886.9 |
| 20° | 4284.2 | 4282.0 | 4288.7 | 4400.1 | 4560.6 | 4743.4 | 4961.8 | 5001.9 | 5378.6 | 5739.7 | 5889.1 |
| 22.5° | 4339.9 | 4304.3 | 4344.4 | 4415.7 | 4531.6 | 4759.0 | 4977.4 | 5066.6 | 5507.9 | 5915.8 | 5989.4 |
| 25° | 4429.1 | 4438.0 | 4460.3 | 4484.8 | 4551.7 | 4794.6 | 5115.6 | 5189.2 | 5659.5 | 6067.4 | 6127.6 |
| 27.5° | 4591.8 | 4587.3 | 4596.3 | 4609.6 | 4667.6 | 4828.1 | 5171.3 | 5360.8 | 5976.0 | 6337.1 | 6276.9 |
| 30° | 4830.3 | 4814.7 | 4850.4 | 4897.2 | 4843.7 | 4935.1 | 5356.4 | 5499.0 | 6270.3 | 6609.1 | 6444.1 |
| 32.5° | 5046.5 | 5104.5 | 5171.3 | 5191.4 | 5126.8 | 5144.6 | 5601.5 | 5746.4 | 6515.5 | 6943.4 | 6649.2 |
| 35° | 5316.2 | 5363.0 | 5452.2 | 5514.6 | 5503.5 | 5450.0 | 5935.9 | 6127.6 | 6869.9 | 7188.6 | 6865.4 |
| 37.5° | 5579.3 | 5635.0 | 5782.1 | 5967.1 | 5864.6 | 5840.1 | 6292.5 | 6450.8 | 6979.1 | 7320.1 | 7023.7 |
| 40° | 6002.8 | 6000.5 | 6254.7 | 6350.5 | 6441.9 | 6399.5 | 6662.6 | 6716.1 | 7037.0 | 7291.2 | 7028.1 |
| 42.5° | 6499.8 | 6468.6 | 6727.2 | 6876.6 | 6994.7 | 6999.2 | 7048.2 | 7030.4 | 7063.8 | 7144.0 | 6981.3 |
| 45° | 6972.4 | 7039.3 | 7300.1 | 7567.6 | 7685.7 | 7699.1 | 7373.6 | 7340.2 | 7110.6 | 7101.7 | 6892.2 |
| 47.5° | 7549.7 | 7565.3 | 7779.3 | 8131.5 | 8405.7 | 8312.0 | 7794.9 | 7721.4 | 7315.7 | 7384.8 | 7041.5 |
| 50° | 7583.2 | 7699.1 | 7890.8 | 8305.4 | 9147.9 | 9123.4 | 8341.0 | 8202.8 | 7645.6 | 7786.0 | 7458.3 |
| 52.5° | 6883.2 | 6856.5 | 7083.9 | 7761.5 | 9092.2 | 9930.3 | 9246.0 | 8916.1 | 8354.4 | 8247.4 | 8133.7 |
| 55° | 5244.9 | 5307.3 | 5507.9 | 6192.2 | 7895.2 | 9941.5 | 10478.7 | 10209.0 | 9112.3 | 8929.5 | 8798.0 |
| 56° | 4600.7 | 4609.6 | 4799.1 | 5423.2 | 7204.2 | 9587.1 | 10712.7 | 10494.3 | 9489.0 | 9210.3 | 9009.7 |
| 57.5° | 3813.9 | 3762.6 | 3860.7 | 4201.7 | 6080.8 | 8838.1 | 10456.4 | 10670.4 | 9930.3 | 9513.5 | 9234.9 |
| 60° | 3002.5 | 2991.4 | 2951.2 | 3013.6 | 3842.8 | 6658.1 | 8704.4 | 9185.8 | 9885.7 | 9228.2 | 8844.8 |
| 62.5° | 2451.9 | 2396.2 | 2476.5 | 2565.6 | 2670.4 | 4130.4 | 6116.5 | 6399.5 | 7848.4 | 7366.9 | 6644.7 |
| 65° | 1901.4 | 1874.6 | 1974.9 | 2264.7 | 2327.1 | 2623.6 | 3484.0 | 3702.4 | 4634.2 | 4551.7 | 4007.8 |
| 67.5° | 1308.4 | 1312.9 | 1399.8 | 1841.2 | 2157.7 | 2131.0 | 2133.2 | 2246.9 | 2418.5 | 1796.6 | 1564.8 |
| 70° | 829.2 | 827.0 | 873.8 | 1185.8 | 1736.4 | 1754.2 | 1665.1 | 1631.6 | 1546.9 | 936.2 | 991.9 |
| 72.5° | 532.7 | 517.1 | 541.7 | 655.3 | 898.3 | 1038.7 | 1069.9 | 1090.0 | 896.1 | 735.6 | 798.0 |
| 75° | 300.9 | 285.3 | 276.4 | 305.4 | 354.4 | 410.1 | 450.3 | 463.6 | 519.4 | 557.3 | 590.7 |
| 77.5° | 91.4 | 82.5 | 100.3 | 133.7 | 176.1 | 236.3 | 287.5 | 296.5 | 350.0 | 394.5 | 428.0 |
| 80° | 40.1 | 44.6 | 62.4 | 89.2 | 124.8 | 167.2 | 202.8 | 216.2 | 251.9 | 285.3 | 294.2 |
| 82.5° | 24.5 | 26.7 | 42.4 | 60.2 | 86.9 | 118.1 | 144.9 | 149.3 | 185.0 | 211.8 | 218.4 |
| 85° | 8.9 | 11.1 | 22.3 | 35.7 | 55.7 | 75.8 | 75.8 | 82.5 | 75.8 | 75.8 | 82.5 |
| 87.5° | 0.0 | 0.0 | 2.2 | 4.5 | 4.5 | 6.7 | 8.9 | 8.9 | 11.1 | 13.4 | 15.6 |
| 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° | 5748.7 | 5748.7 | 5748.7 | 5748.7 | 5748.7 | 5748.7 | 5748.7 | 5748.7 | 5748.7 | 5748.7 | 5748.7 |
| 2.5° | 5764.3 | 5753.1 | 5735.3 | 5670.6 | 5664.0 | 5643.9 | 5532.4 | 5514.6 | 5532.4 | 5479.0 | 5483.4 |
| 5° | 5753.1 | 5786.6 | 5652.8 | 5588.2 | 5467.8 | 5380.9 | 5280.6 | 5229.3 | 5137.9 | 5080.0 | 5144.6 |
| 7.5° | 5802.2 | 5788.8 | 5621.6 | 5481.2 | 5300.6 | 5080.0 | 4903.9 | 4803.6 | 4643.1 | 4598.5 | 4631.9 |
| 10° | 5784.3 | 5713.0 | 5516.8 | 5331.8 | 4990.8 | 4796.9 | 4511.6 | 4235.2 | 4083.6 | 4005.6 | 3994.4 |
| 12.5° | 5759.8 | 5739.7 | 5412.1 | 5093.3 | 4734.5 | 4326.5 | 3925.3 | 3664.5 | 3417.1 | 3310.1 | 3325.7 |
| 15° | 5788.8 | 5619.4 | 5215.9 | 4812.5 | 4335.5 | 3800.5 | 3368.1 | 3031.5 | 2859.8 | 2790.7 | 2790.7 |
| 17.5° | 5775.4 | 5561.4 | 5122.3 | 4498.2 | 3894.1 | 3261.1 | 2786.3 | 2583.4 | 2512.1 | 2512.1 | 2532.2 |
| 20° | 5782.1 | 5599.3 | 4932.8 | 4183.9 | 3372.5 | 2746.2 | 2400.7 | 2327.1 | 2358.3 | 2369.5 | 2380.6 |
| 22.5° | 5820.0 | 5474.5 | 4747.8 | 3838.4 | 2888.8 | 2349.4 | 2180.0 | 2182.2 | 2237.9 | 2298.1 | 2287.0 |
| 25° | 5866.8 | 5425.5 | 4522.7 | 3495.1 | 2518.8 | 2155.5 | 2102.0 | 2095.3 | 2137.6 | 2168.8 | 2173.3 |
| 27.5° | 5826.7 | 5340.8 | 4293.1 | 3067.1 | 2215.7 | 2026.2 | 2015.0 | 2019.5 | 2032.9 | 2095.3 | 2075.2 |
| 30° | 5958.2 | 5365.3 | 4005.6 | 2708.3 | 2048.5 | 1983.8 | 1970.5 | 1963.8 | 1983.8 | 2001.7 | 1986.1 |
| 32.5° | 6120.9 | 5278.3 | 3791.6 | 2362.8 | 1966.0 | 1952.6 | 1925.9 | 1917.0 | 1928.1 | 1910.3 | 1919.2 |
| 35° | 6192.2 | 5262.7 | 3512.9 | 2115.3 | 1901.4 | 1890.2 | 1874.6 | 1872.4 | 1874.6 | 1859.0 | 1845.6 |
| 37.5° | 6232.4 | 5336.3 | 3194.2 | 2001.7 | 1861.2 | 1872.4 | 1836.7 | 1832.3 | 1792.1 | 1801.1 | 1807.7 |
| 40° | 6301.5 | 5222.6 | 2935.6 | 1892.4 | 1836.7 | 1814.4 | 1783.2 | 1776.5 | 1749.8 | 1734.2 | 1749.8 |
| 42.5° | 6201.2 | 5189.2 | 2681.5 | 1845.6 | 1801.1 | 1776.5 | 1754.2 | 1716.4 | 1707.4 | 1694.1 | 1685.1 |
| 45° | 6120.9 | 4997.5 | 2454.2 | 1787.7 | 1758.7 | 1745.3 | 1703.0 | 1662.9 | 1629.4 | 1642.8 | 1622.7 |
| 47.5° | 6181.1 | 4930.6 | 2229.0 | 1738.6 | 1700.7 | 1685.1 | 1642.8 | 1611.6 | 1578.2 | 1562.5 | 1558.1 |
| 50° | 6421.8 | 5055.4 | 2039.6 | 1703.0 | 1651.7 | 1642.8 | 1587.1 | 1551.4 | 1520.2 | 1509.1 | 1513.5 |
| 52.5° | 6996.9 | 5396.5 | 1910.3 | 1629.4 | 1604.9 | 1564.8 | 1533.6 | 1489.0 | 1468.9 | 1433.3 | 1455.6 |
| 55° | 7725.8 | 5951.5 | 1876.8 | 1560.3 | 1546.9 | 1511.3 | 1468.9 | 1435.5 | 1397.6 | 1368.6 | 1361.9 |
| 56° | 7959.9 | 6216.8 | 1850.1 | 1533.6 | 1511.3 | 1491.2 | 1435.5 | 1415.4 | 1355.2 | 1348.6 | 1344.1 |
| 57.5° | 8149.3 | 6450.8 | 1854.6 | 1482.3 | 1460.0 | 1442.2 | 1408.7 | 1359.7 | 1319.6 | 1295.1 | 1306.2 |
| 60° | 7721.4 | 6038.4 | 1769.8 | 1404.3 | 1399.8 | 1366.4 | 1319.6 | 1297.3 | 1248.3 | 1219.3 | 1212.6 |
| 62.5° | 5739.7 | 4099.2 | 1435.5 | 1304.0 | 1301.8 | 1266.1 | 1212.6 | 1188.1 | 1179.2 | 1139.0 | 1139.0 |
| 65° | 3305.6 | 2570.1 | 1241.6 | 1221.5 | 1203.7 | 1168.0 | 1114.5 | 1094.5 | 1072.2 | 1058.8 | 1047.6 |
| 67.5° | 1411.0 | 1333.0 | 1127.9 | 1125.7 | 1105.6 | 1061.0 | 1007.5 | 976.3 | 947.3 | 920.6 | 934.0 |
| 70° | 1023.1 | 1038.7 | 1018.7 | 1007.5 | 983.0 | 927.3 | 880.5 | 842.6 | 798.0 | 780.2 | 793.5 |
| 72.5° | 811.4 | 844.8 | 873.8 | 876.0 | 847.0 | 782.4 | 731.1 | 679.9 | 630.8 | 606.3 | 617.4 |
| 75° | 615.2 | 637.5 | 666.5 | 673.2 | 630.8 | 586.2 | 537.2 | 483.7 | 445.8 | 416.8 | 421.3 |
| 77.5° | 443.6 | 439.1 | 465.9 | 461.4 | 441.3 | 410.1 | 365.6 | 316.5 | 274.2 | 247.4 | 249.7 |
| 80° | 303.1 | 309.8 | 325.4 | 323.2 | 298.7 | 278.6 | 245.2 | 205.1 | 173.9 | 151.6 | 147.1 |
| 82.5° | 211.8 | 222.9 | 236.3 | 225.1 | 205.1 | 185.0 | 160.5 | 131.5 | 107.0 | 89.2 | 84.7 |
| 85° | 75.8 | 86.9 | 100.3 | 107.0 | 113.7 | 109.2 | 91.4 | 73.6 | 53.5 | 44.6 | 42.4 |
| 87.5° | 15.6 | 17.8 | 20.1 | 20.1 | 20.1 | 17.8 | 15.6 | 15.6 | 13.4 | 6.7 | 6.7 |
| 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)