

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: P531130

Luminaire Tested: **GALN-SA6B-827-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-827-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21148 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

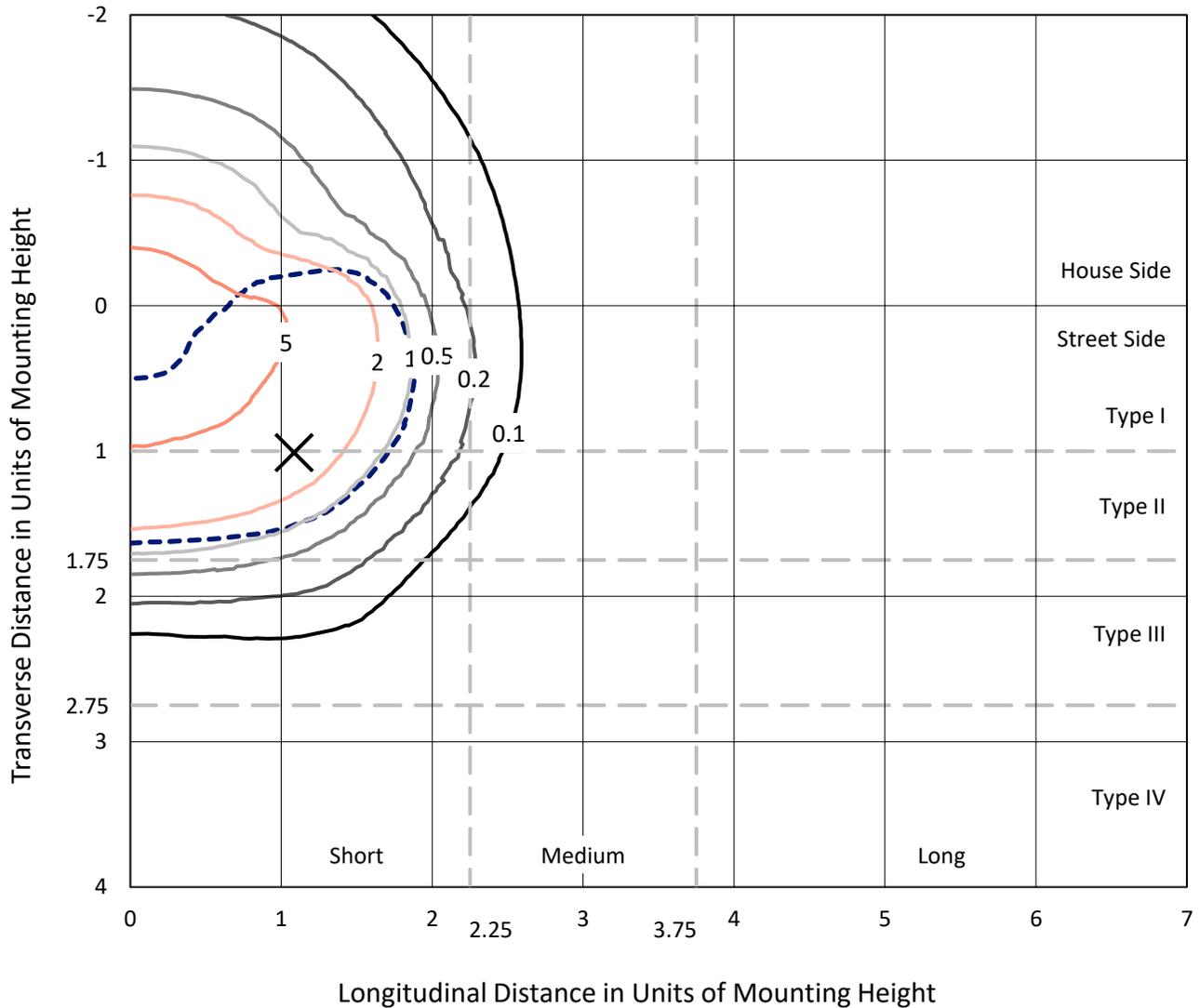
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

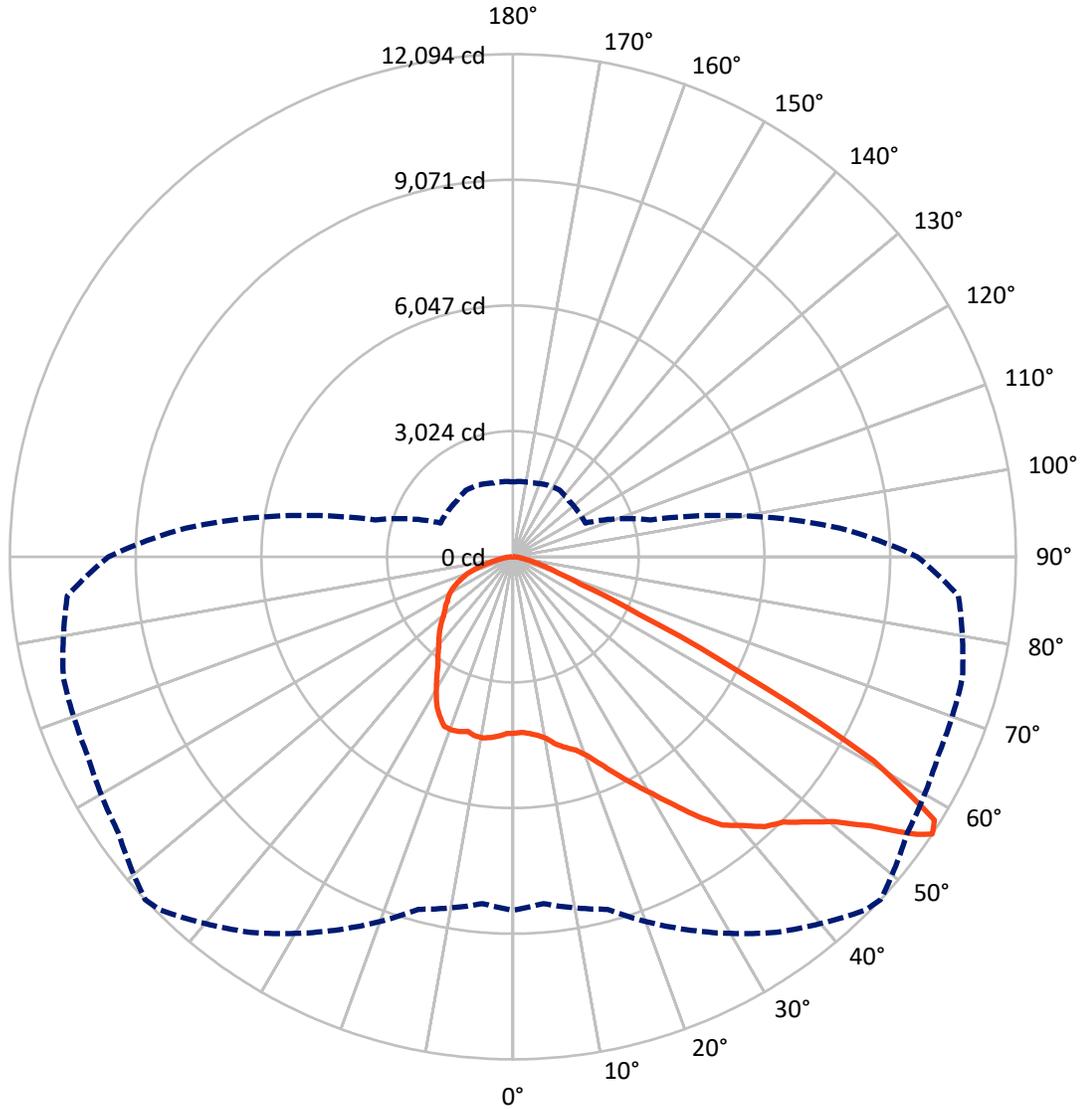
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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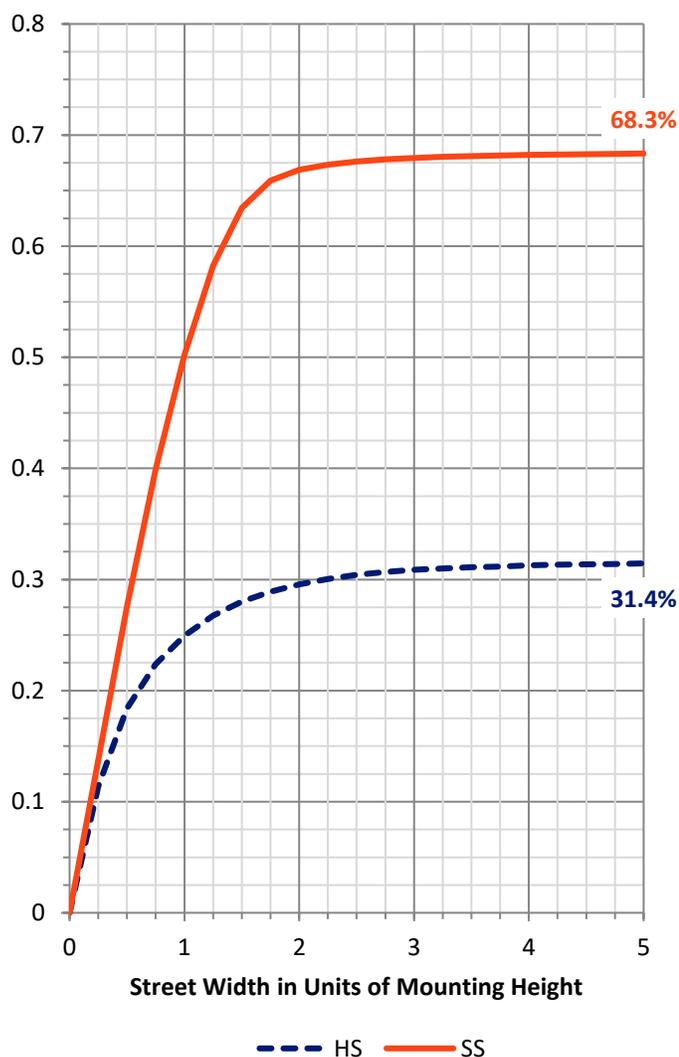
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6701.6 | 0.0 | 6701.6 |
| | % Fixture | 31.7 | 0.0 | 31.7 |
| Street Side | Lumens | 14446.5 | 0.0 | 14446.5 |
| | % Fixture | 68.3 | 0.0 | 68.3 |
| Total | Lumens | 21148.0 | 0.0 | 21148.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 413.9 | 2.0 |
| 10°-20° | 1305.7 | 6.2 |
| 20°-30° | 2308.1 | 10.9 |
| 30°-40° | 3466.7 | 16.4 |
| 40°-50° | 4757.7 | 22.5 |
| 50°-60° | 5668.2 | 26.8 |
| 60°-70° | 2425.7 | 11.5 |
| 70°-80° | 686.5 | 3.2 |
| 80°-90° | 115.5 | 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° | 21148.0 | 100.0 |
| 0°-180° | 21148.0 | 100.0 |

Coefficient of Utilization



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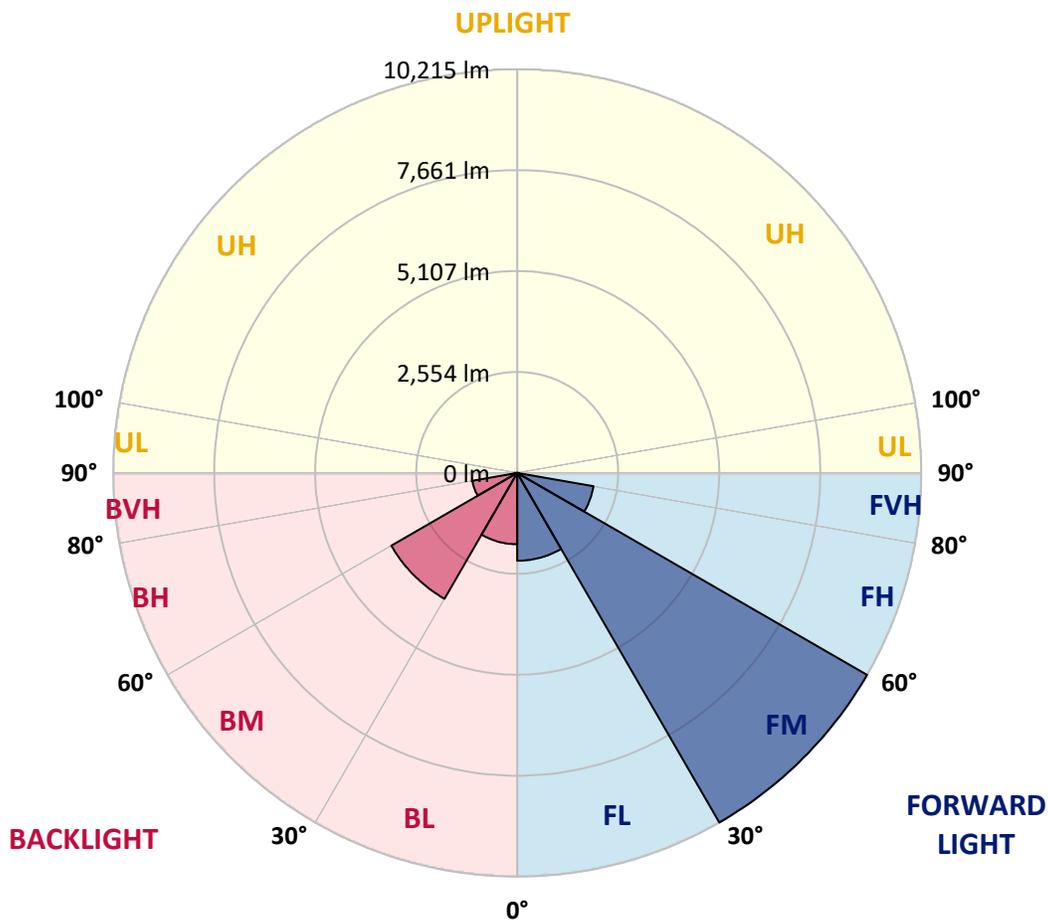
CATALOG NUMBER: GALN-SA6B-827-U-T3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2223.4 | 10.5 | | | |
| FM (30°-60°) | 10215.0 | 48.3 | | | |
| FH (60°-80°) | 1959.1 | 9.3 | | | G2/5000 |
| FVH (80°-90°) | 49.0 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1804.3 | 8.5 | B3/2500 | | |
| BM (30°-60°) | 3677.7 | 17.4 | B3/5000 | | |
| BH (60°-80°) | 1153.0 | 5.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 66.5 | 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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4248.0 | 4248.0 | 4248.0 | 4248.0 | 4248.0 | 4248.0 | 4248.0 | 4248.0 | 4248.0 | 4248.0 | 4248.0 |
| 2.5° | 4231.8 | 4223.7 | 4218.3 | 4261.5 | 4245.3 | 4248.0 | 4231.8 | 4248.0 | 4258.8 | 4234.5 | 4269.6 |
| 5° | 4223.7 | 4248.0 | 4226.4 | 4239.9 | 4275.0 | 4264.2 | 4275.0 | 4307.3 | 4299.2 | 4291.1 | 4280.4 |
| 7.5° | 4299.2 | 4301.9 | 4318.1 | 4323.5 | 4334.3 | 4323.5 | 4339.7 | 4369.4 | 4361.3 | 4315.4 | 4320.8 |
| 10° | 4407.1 | 4412.5 | 4415.2 | 4444.9 | 4463.8 | 4466.5 | 4447.6 | 4420.6 | 4417.9 | 4479.9 | 4436.8 |
| 12.5° | 4531.2 | 4517.7 | 4550.1 | 4560.9 | 4582.4 | 4606.7 | 4631.0 | 4574.3 | 4609.4 | 4612.1 | 4560.9 |
| 15° | 4711.9 | 4725.4 | 4687.6 | 4687.6 | 4695.7 | 4698.4 | 4765.8 | 4738.9 | 4733.5 | 4703.8 | 4725.4 |
| 17.5° | 4981.6 | 4889.9 | 4887.2 | 4849.5 | 4844.1 | 4865.6 | 4889.9 | 4911.5 | 4984.3 | 4925.0 | 4809.0 |
| 20° | 5178.5 | 5200.1 | 5121.9 | 5076.0 | 5084.1 | 5132.7 | 5108.4 | 5205.5 | 5256.7 | 5159.6 | 5046.3 |
| 22.5° | 5526.4 | 5453.6 | 5472.5 | 5370.0 | 5378.1 | 5429.3 | 5426.6 | 5526.4 | 5556.1 | 5402.4 | 5237.8 |
| 25° | 5761.1 | 5742.2 | 5758.4 | 5677.5 | 5688.3 | 5728.7 | 5793.5 | 5958.0 | 5909.4 | 5739.5 | 5359.2 |
| 27.5° | 6103.6 | 6065.9 | 6052.4 | 6022.7 | 6011.9 | 6119.8 | 6195.3 | 6370.6 | 6335.6 | 6087.4 | 5575.0 |
| 30° | 6454.2 | 6430.0 | 6443.5 | 6322.1 | 6365.2 | 6594.5 | 6616.1 | 6856.1 | 6839.9 | 6403.0 | 5815.0 |
| 32.5° | 6697.0 | 6710.5 | 6734.8 | 6667.3 | 6858.8 | 7042.2 | 7115.0 | 7387.5 | 7400.9 | 6945.1 | 6278.9 |
| 35° | 7088.1 | 7042.2 | 7055.7 | 7133.9 | 7222.9 | 7557.4 | 7676.1 | 7856.8 | 7970.0 | 7514.2 | 6724.0 |
| 37.5° | 7333.5 | 7382.1 | 7325.4 | 7449.5 | 7681.4 | 8083.3 | 8191.2 | 8377.3 | 8496.0 | 8075.2 | 7330.8 |
| 40° | 7716.5 | 7638.3 | 7678.7 | 7767.8 | 8005.1 | 8528.3 | 8498.7 | 8690.2 | 8727.9 | 8552.6 | 7897.2 |
| 42.5° | 8129.2 | 8091.4 | 8034.8 | 8237.1 | 8436.6 | 8816.9 | 8876.3 | 8787.3 | 8978.8 | 9019.2 | 8706.4 |
| 45° | 8622.7 | 8668.6 | 8676.7 | 8682.1 | 8857.4 | 9189.1 | 9108.2 | 9030.0 | 9251.2 | 9545.2 | 9208.0 |
| 47.5° | 9081.3 | 8935.6 | 9040.8 | 9186.4 | 9434.6 | 9437.3 | 9531.7 | 9345.6 | 9580.2 | 9841.9 | 9661.1 |
| 50° | 9235.0 | 9164.9 | 9305.1 | 9580.2 | 9963.2 | 10003.7 | 10014.5 | 9750.2 | 9871.5 | 10079.2 | 9817.6 |
| 52.5° | 9175.7 | 9151.4 | 9510.1 | 9936.3 | 10497.3 | 10702.2 | 10756.2 | 10429.8 | 10497.3 | 10402.9 | 10162.8 |
| 55° | 8892.5 | 8965.3 | 9326.7 | 10195.2 | 11055.6 | 11689.4 | 11791.9 | 11379.2 | 10950.4 | 11023.2 | 10758.9 |
| 56° | 8504.1 | 8377.3 | 8781.9 | 9901.2 | 11031.3 | 12010.4 | 12094.0 | 11578.8 | 11287.5 | 11193.1 | 10753.5 |
| 57.5° | 7214.8 | 7050.3 | 7581.7 | 8908.6 | 10419.0 | 11889.0 | 11951.0 | 11662.4 | 11230.9 | 11039.4 | 9968.6 |
| 60° | 4223.7 | 4304.6 | 4978.9 | 6144.1 | 8037.5 | 9747.5 | 9955.1 | 10165.5 | 9876.9 | 9019.2 | 7419.8 |
| 62.5° | 2039.0 | 1987.8 | 2470.6 | 3522.5 | 4898.0 | 6222.3 | 6160.3 | 6750.9 | 7074.6 | 6408.4 | 4684.9 |
| 65° | 1068.1 | 1062.7 | 1348.6 | 1923.1 | 2691.7 | 3268.9 | 3325.6 | 3643.8 | 4088.9 | 3301.3 | 2378.9 |
| 67.5° | 784.9 | 806.4 | 949.4 | 1351.3 | 1731.6 | 1766.6 | 1758.5 | 1917.7 | 1960.8 | 1658.7 | 1461.8 |
| 70° | 614.9 | 625.7 | 730.9 | 1027.6 | 1289.2 | 1154.4 | 1130.1 | 1149.0 | 1275.7 | 1329.7 | 1265.0 |
| 72.5° | 445.0 | 455.8 | 544.8 | 693.2 | 806.4 | 787.6 | 803.7 | 908.9 | 1065.4 | 1122.0 | 1054.6 |
| 75° | 296.7 | 304.8 | 353.3 | 423.5 | 477.4 | 515.2 | 544.8 | 666.2 | 811.8 | 844.2 | 811.8 |
| 77.5° | 205.0 | 213.1 | 245.4 | 299.4 | 304.8 | 329.1 | 339.8 | 396.5 | 485.5 | 525.9 | 504.4 |
| 80° | 116.0 | 116.0 | 132.2 | 153.7 | 188.8 | 221.2 | 226.6 | 272.4 | 312.9 | 339.8 | 345.2 |
| 82.5° | 53.9 | 56.6 | 70.1 | 94.4 | 124.1 | 153.7 | 159.1 | 188.8 | 218.5 | 245.4 | 253.5 |
| 85° | 27.0 | 29.7 | 40.5 | 56.6 | 75.5 | 91.7 | 89.0 | 91.7 | 97.1 | 91.7 | 94.4 |
| 87.5° | 8.1 | 8.1 | 10.8 | 13.5 | 10.8 | 13.5 | 13.5 | 16.2 | 18.9 | 21.6 | 24.3 |
| 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° | 4248.0 | 4248.0 | 4248.0 | 4248.0 | 4248.0 | 4248.0 | 4248.0 | 4248.0 | 4248.0 | 4248.0 | 4248.0 |
| 2.5° | 4272.3 | 4280.4 | 4226.4 | 4277.7 | 4258.8 | 4256.1 | 4293.8 | 4288.4 | 4301.9 | 4296.5 | 4264.2 |
| 5° | 4275.0 | 4256.1 | 4312.7 | 4261.5 | 4285.8 | 4337.0 | 4301.9 | 4382.8 | 4342.4 | 4369.4 | 4310.0 |
| 7.5° | 4358.6 | 4364.0 | 4353.2 | 4374.8 | 4364.0 | 4388.2 | 4369.4 | 4388.2 | 4355.9 | 4358.6 | 4412.5 |
| 10° | 4431.4 | 4415.2 | 4434.1 | 4407.1 | 4426.0 | 4417.9 | 4374.8 | 4361.3 | 4372.1 | 4358.6 | 4393.6 |
| 12.5° | 4566.3 | 4536.6 | 4523.1 | 4490.7 | 4469.2 | 4388.2 | 4320.8 | 4283.1 | 4334.3 | 4342.4 | 4326.2 |
| 15° | 4703.8 | 4706.5 | 4644.5 | 4571.6 | 4436.8 | 4315.4 | 4331.6 | 4345.1 | 4345.1 | 4366.7 | 4326.2 |
| 17.5° | 4790.1 | 4790.1 | 4733.5 | 4587.8 | 4450.3 | 4380.2 | 4364.0 | 4320.8 | 4283.1 | 4277.7 | 4275.0 |
| 20° | 4941.2 | 4895.3 | 4765.8 | 4585.1 | 4444.9 | 4412.5 | 4291.1 | 4188.7 | 4110.4 | 4083.5 | 4080.8 |
| 22.5° | 5113.8 | 4997.8 | 4817.1 | 4590.5 | 4436.8 | 4390.9 | 4164.4 | 4010.6 | 3870.4 | 3811.1 | 3819.1 |
| 25° | 5272.9 | 5086.8 | 4846.8 | 4566.3 | 4407.1 | 4186.0 | 3932.4 | 3719.4 | 3573.7 | 3525.2 | 3500.9 |
| 27.5° | 5383.5 | 5181.2 | 4846.8 | 4587.8 | 4296.5 | 3956.7 | 3697.8 | 3425.4 | 3298.6 | 3266.2 | 3271.6 |
| 30° | 5531.8 | 5299.9 | 4930.4 | 4542.0 | 4075.4 | 3660.0 | 3349.8 | 3171.8 | 3096.3 | 3069.3 | 3088.2 |
| 32.5° | 5879.8 | 5610.0 | 5046.3 | 4431.4 | 3813.8 | 3363.3 | 3112.5 | 3012.7 | 2902.1 | 2848.2 | 2829.3 |
| 35° | 6257.4 | 5904.0 | 5159.6 | 4245.3 | 3519.8 | 3093.6 | 2937.2 | 2845.5 | 2713.3 | 2654.0 | 2664.8 |
| 37.5° | 6791.4 | 6281.6 | 5167.7 | 3937.8 | 3201.5 | 2942.6 | 2799.6 | 2656.7 | 2548.8 | 2457.1 | 2430.1 |
| 40° | 7511.5 | 6796.8 | 5148.8 | 3614.2 | 2945.3 | 2764.6 | 2659.4 | 2481.4 | 2360.0 | 2295.3 | 2308.7 |
| 42.5° | 8145.4 | 7400.9 | 5070.6 | 3247.4 | 2713.3 | 2643.2 | 2524.5 | 2349.2 | 2230.5 | 2163.1 | 2157.7 |
| 45° | 8679.4 | 7846.0 | 4922.3 | 2934.5 | 2519.1 | 2508.3 | 2370.8 | 2235.9 | 2141.5 | 2079.5 | 2106.5 |
| 47.5° | 9173.0 | 8204.7 | 4698.4 | 2621.6 | 2341.1 | 2362.7 | 2230.5 | 2146.9 | 2087.6 | 2030.9 | 2028.2 |
| 50° | 9351.0 | 8199.3 | 4501.5 | 2362.7 | 2198.2 | 2187.4 | 2182.0 | 2093.0 | 2030.9 | 1982.4 | 2004.0 |
| 52.5° | 9647.7 | 8291.0 | 4288.4 | 2184.7 | 2068.7 | 2071.4 | 2090.3 | 2025.5 | 1955.4 | 1925.8 | 1952.7 |
| 55° | 10073.8 | 8304.5 | 3819.1 | 1977.0 | 1960.8 | 1979.7 | 1979.7 | 1936.5 | 1877.2 | 1852.9 | 1839.4 |
| 56° | 9725.9 | 7902.6 | 3425.4 | 1923.1 | 1906.9 | 1906.9 | 1958.1 | 1909.6 | 1836.8 | 1817.9 | 1801.7 |
| 57.5° | 8970.7 | 6923.6 | 2867.1 | 1858.3 | 1834.1 | 1871.8 | 1898.8 | 1847.5 | 1780.1 | 1753.1 | 1769.3 |
| 60° | 6187.2 | 4684.9 | 2155.0 | 1718.1 | 1718.1 | 1780.1 | 1801.7 | 1726.2 | 1696.5 | 1693.8 | 1672.2 |
| 62.5° | 3611.5 | 2729.5 | 1685.7 | 1591.3 | 1596.7 | 1648.0 | 1664.1 | 1621.0 | 1583.2 | 1629.1 | 1650.6 |
| 65° | 1915.0 | 1629.1 | 1445.7 | 1456.5 | 1459.2 | 1499.6 | 1569.7 | 1567.0 | 1564.3 | 1577.8 | 1580.5 |
| 67.5° | 1386.3 | 1354.0 | 1313.5 | 1302.7 | 1308.1 | 1337.8 | 1407.9 | 1461.8 | 1459.2 | 1426.8 | 1402.5 |
| 70° | 1235.3 | 1189.4 | 1165.2 | 1167.9 | 1146.3 | 1181.3 | 1238.0 | 1273.0 | 1211.0 | 1173.3 | 1157.1 |
| 72.5° | 1027.6 | 1014.1 | 997.9 | 1000.6 | 957.5 | 949.4 | 884.7 | 884.7 | 868.5 | 857.7 | 876.6 |
| 75° | 784.9 | 779.5 | 787.6 | 774.1 | 728.2 | 679.7 | 641.9 | 606.9 | 552.9 | 531.3 | 520.5 |
| 77.5° | 496.3 | 512.5 | 531.3 | 501.7 | 482.8 | 447.7 | 410.0 | 374.9 | 331.7 | 307.5 | 307.5 |
| 80° | 337.1 | 350.6 | 364.1 | 358.7 | 337.1 | 304.8 | 275.1 | 237.3 | 207.7 | 188.8 | 186.1 |
| 82.5° | 256.2 | 267.0 | 285.9 | 264.3 | 242.7 | 215.8 | 191.5 | 164.5 | 137.6 | 116.0 | 116.0 |
| 85° | 91.7 | 105.2 | 116.0 | 126.8 | 134.9 | 137.6 | 118.7 | 97.1 | 78.2 | 62.0 | 59.3 |
| 87.5° | 24.3 | 27.0 | 29.7 | 27.0 | 27.0 | 27.0 | 29.7 | 27.0 | 24.3 | 18.9 | 18.9 |
| 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)