

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: P454471

Luminaire Tested: **GALN-SA5C-750-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-750-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35408 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

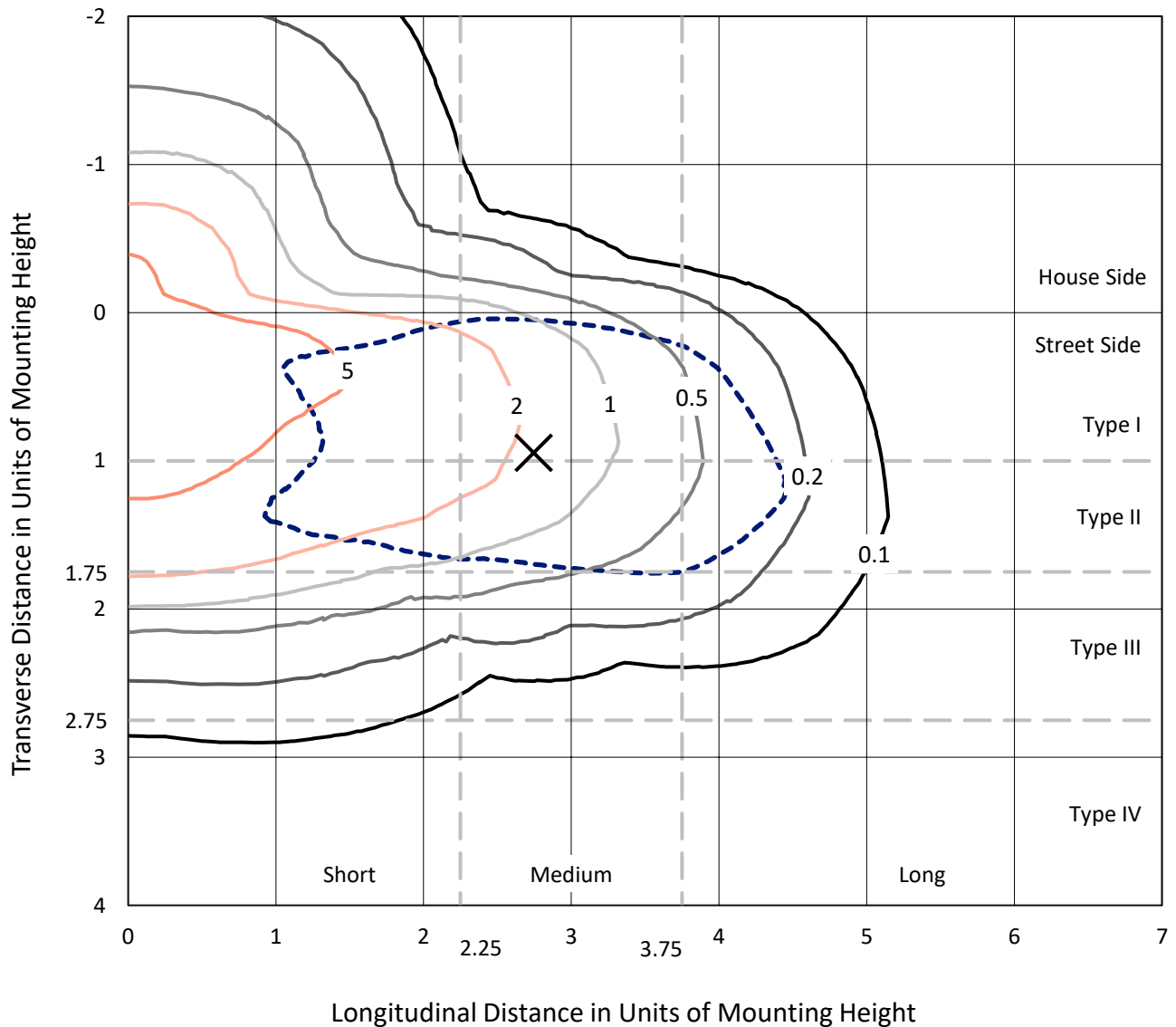
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

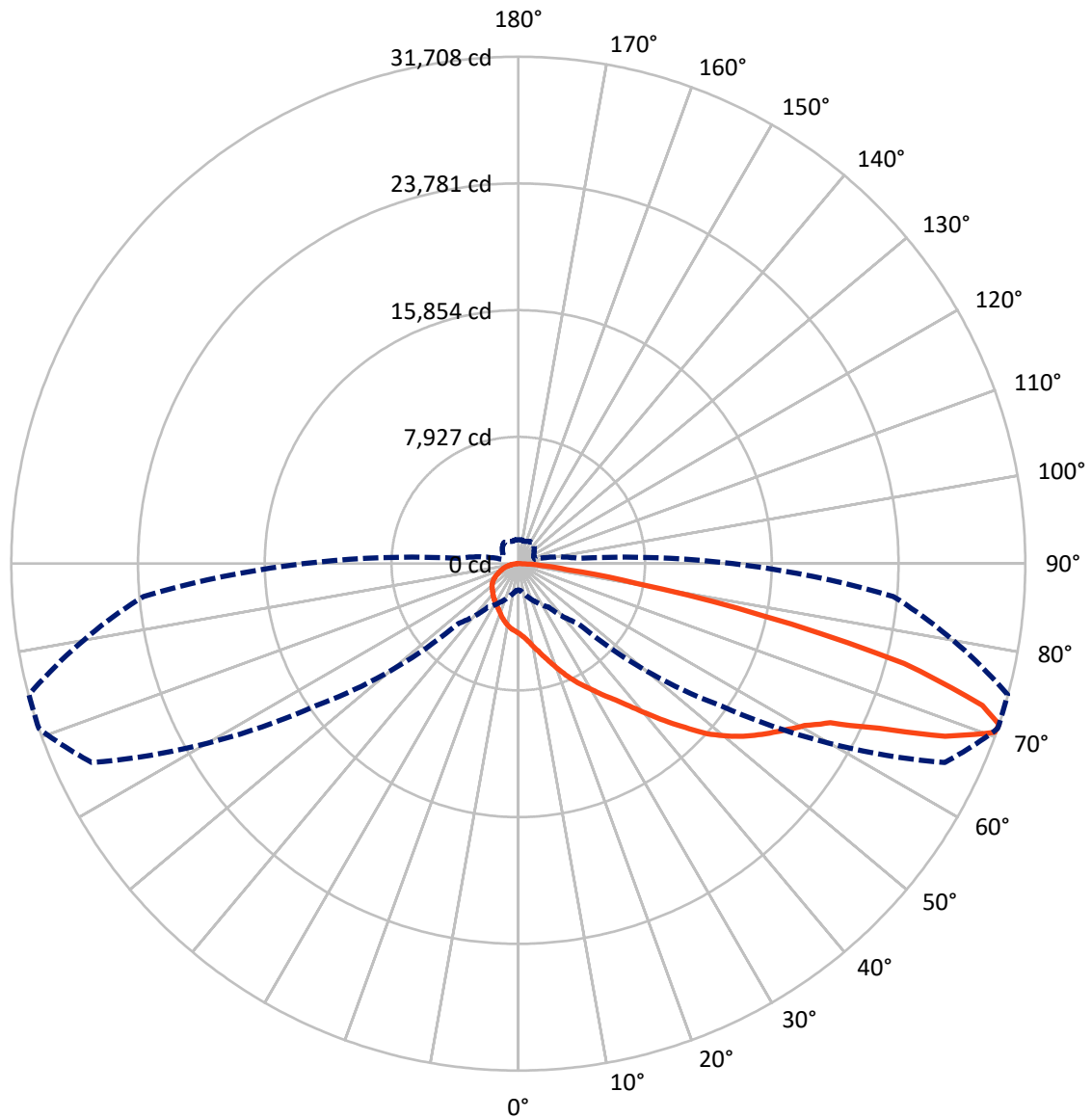
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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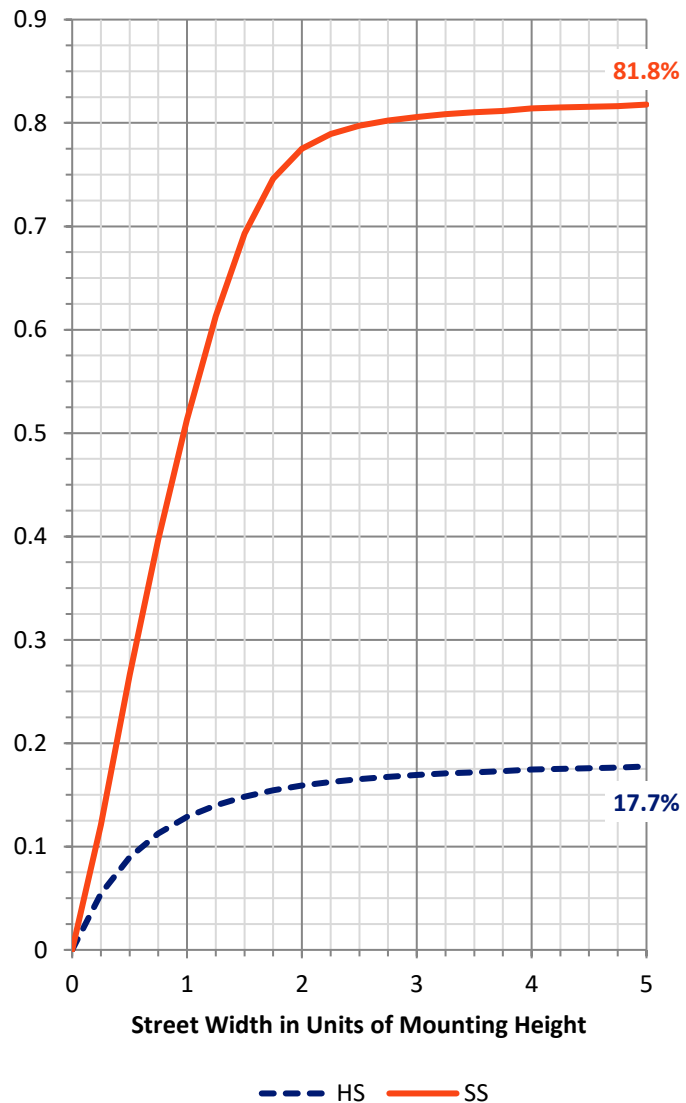
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6368.0 | 0.0 | 6368.0 |
| | % Fixture | 18.0 | 0.0 | 18.0 |
| Street Side | Lumens | 29040.0 | 0.0 | 29040.0 |
| | % Fixture | 82.0 | 0.0 | 82.0 |
| Total | Lumens | 35408.0 | 0.0 | 35408.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 436.3 | 1.2 |
| 10°-20° | 1417.6 | 4.0 |
| 20°-30° | 2477.4 | 7.0 |
| 30°-40° | 3684.8 | 10.4 |
| 40°-50° | 5429.1 | 15.3 |
| 50°-60° | 7600.8 | 21.5 |
| 60°-70° | 8501.2 | 24.0 |
| 70°-80° | 5192.9 | 14.7 |
| 80°-90° | 668.0 | 1.9 |
| 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° | 35408.0 | 100.0 |
| 0°-180° | 35408.0 | 100.0 |

Coefficient of Utilization



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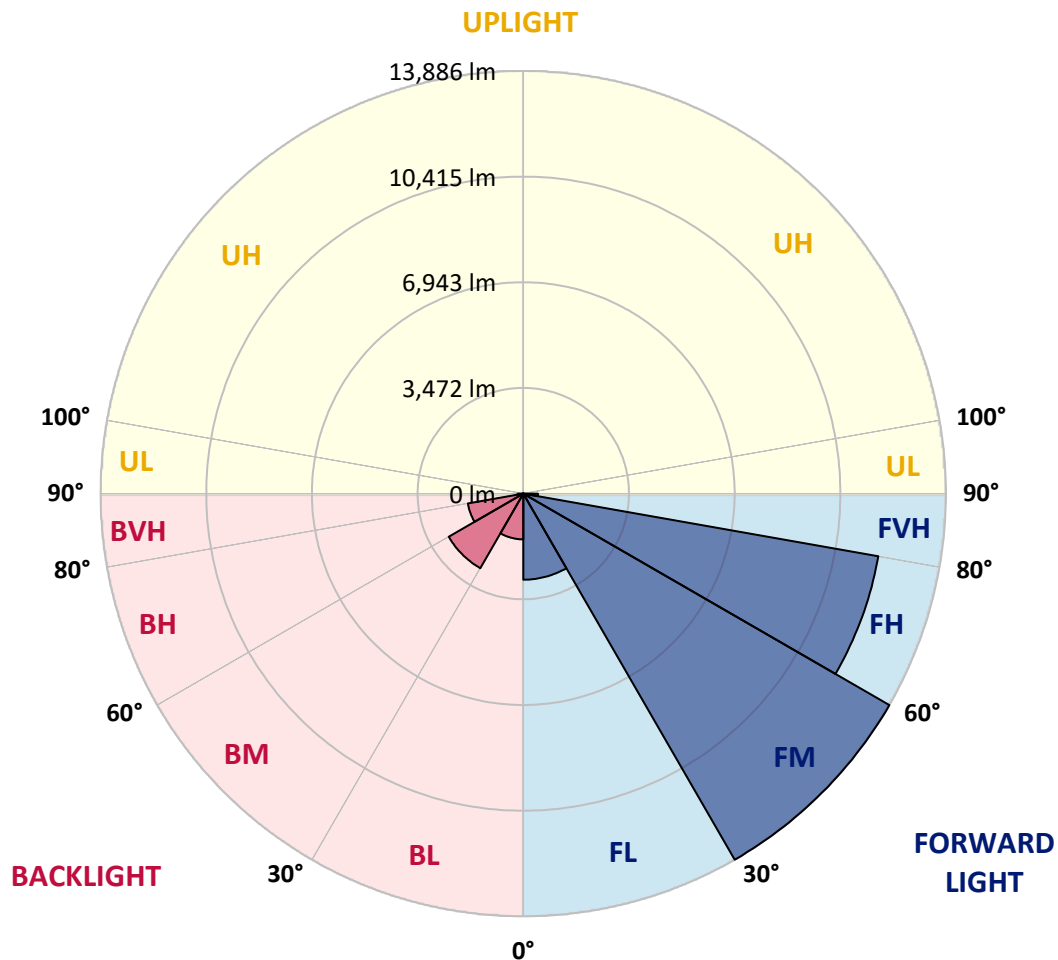
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2829.1 | 8.0 | | | |
| FM | (30°-60°) | 13886.3 | 39.2 | | | |
| FH | (60°-80°) | 11843.9 | 33.4 | | | G4/12000 |
| FVH | (80°-90°) | 480.7 | 1.4 | | | G3/500 |
| BL | (0°-30°) | 1502.2 | 4.2 | B3/2500 | | |
| BM | (30°-60°) | 2828.3 | 8.0 | B3/5000 | | |
| BH | (60°-80°) | 1850.2 | 5.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 187.3 | 0.5 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 71° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4345.6 | 4345.6 | 4345.6 | 4345.6 | 4345.6 | 4345.6 | 4345.6 | 4345.6 | 4345.6 | 4345.6 | 4345.6 |
| 2.5° | 4824.4 | 4801.0 | 4803.0 | 4769.9 | 4727.1 | 4680.4 | 4614.2 | 4555.8 | 4509.1 | 4481.9 | 4402.1 |
| 5° | 5345.9 | 5322.6 | 5293.4 | 5221.4 | 5190.2 | 5075.4 | 4929.5 | 4797.1 | 4695.9 | 4639.5 | 4479.9 |
| 7.5° | 5768.2 | 5762.4 | 5754.6 | 5713.7 | 5633.9 | 5474.4 | 5349.8 | 5120.2 | 4970.3 | 4863.3 | 4590.8 |
| 10° | 6029.0 | 6038.7 | 6044.6 | 6052.4 | 6019.3 | 5935.6 | 5764.3 | 5474.4 | 5283.7 | 5147.4 | 4734.9 |
| 12.5° | 6161.3 | 6171.1 | 6204.2 | 6276.2 | 6320.9 | 6311.2 | 6171.1 | 5886.9 | 5624.2 | 5445.2 | 4888.6 |
| 15° | 6243.1 | 6258.6 | 6317.0 | 6412.4 | 6562.2 | 6657.6 | 6589.5 | 6326.8 | 6038.7 | 5826.6 | 5071.5 |
| 17.5° | 6332.6 | 6350.1 | 6414.3 | 6550.6 | 6747.1 | 6953.4 | 7027.4 | 6801.6 | 6488.3 | 6235.3 | 5275.9 |
| 20° | 6383.2 | 6406.5 | 6498.0 | 6677.1 | 6906.7 | 7206.4 | 7451.6 | 7332.9 | 6990.4 | 6710.1 | 5511.3 |
| 22.5° | 6464.9 | 6484.4 | 6562.2 | 6753.0 | 7027.4 | 7403.0 | 7875.9 | 7850.6 | 7548.9 | 7186.9 | 5770.2 |
| 25° | 6686.8 | 6717.9 | 6756.8 | 6871.7 | 7136.3 | 7603.4 | 8228.1 | 8403.2 | 8089.9 | 7685.1 | 6007.6 |
| 27.5° | 7105.2 | 7130.5 | 7128.6 | 7144.1 | 7294.0 | 7776.6 | 8533.6 | 8950.1 | 8627.0 | 8189.2 | 6237.2 |
| 30° | 7582.0 | 7591.7 | 7599.5 | 7564.5 | 7597.6 | 7953.7 | 8813.9 | 9491.1 | 9168.1 | 8706.8 | 6437.7 |
| 32.5° | 8161.9 | 8181.4 | 8115.2 | 8025.7 | 7998.5 | 8216.4 | 9045.5 | 10032.1 | 9808.3 | 9232.3 | 6636.2 |
| 35° | 8847.0 | 8897.6 | 8763.3 | 8605.6 | 8494.7 | 8594.0 | 9356.8 | 10584.8 | 10464.2 | 9903.7 | 6898.9 |
| 37.5° | 9629.3 | 9691.6 | 9567.0 | 9257.6 | 9099.9 | 9127.2 | 9763.6 | 11267.9 | 11293.2 | 10668.5 | 7290.1 |
| 40° | 10269.6 | 10351.3 | 10355.2 | 9917.3 | 9677.9 | 9709.1 | 10279.3 | 12003.5 | 12293.5 | 11614.3 | 7751.3 |
| 42.5° | 10691.9 | 10771.6 | 10855.3 | 10598.4 | 10347.4 | 10524.5 | 10880.6 | 12801.4 | 13418.3 | 12762.5 | 8395.5 |
| 45° | 11155.0 | 11227.0 | 11273.7 | 11157.0 | 11016.9 | 11476.1 | 11606.5 | 13649.9 | 14617.1 | 14045.0 | 9099.9 |
| 47.5° | 11692.1 | 11771.9 | 11816.7 | 11705.8 | 11653.2 | 12311.0 | 12388.9 | 14442.0 | 15897.7 | 15290.5 | 9878.4 |
| 50° | 12408.3 | 12468.6 | 12445.3 | 12375.2 | 12363.6 | 12951.3 | 13140.0 | 15183.4 | 16954.4 | 16631.3 | 10686.0 |
| 52.5° | 13299.6 | 13371.6 | 13396.9 | 13297.7 | 13252.9 | 13408.6 | 13745.3 | 15858.7 | 17915.8 | 17783.4 | 11548.1 |
| 55° | 13838.7 | 13953.5 | 14338.8 | 14494.5 | 14601.6 | 14000.2 | 14397.2 | 16604.1 | 18777.9 | 18997.8 | 12474.5 |
| 57.5° | 13147.8 | 13295.7 | 14157.9 | 14936.3 | 15942.4 | 15479.3 | 15321.6 | 17382.5 | 19640.0 | 20175.2 | 13583.8 |
| 60° | 11462.5 | 11495.6 | 12606.8 | 14041.1 | 16065.0 | 17380.6 | 17250.2 | 18620.3 | 20574.1 | 21362.3 | 15045.3 |
| 62.5° | 7951.8 | 8021.8 | 9335.4 | 11624.0 | 14551.0 | 18065.6 | 20531.3 | 20757.1 | 21913.0 | 23139.1 | 17187.9 |
| 65° | 4100.4 | 4009.0 | 5205.8 | 7305.6 | 10970.1 | 16438.7 | 23189.7 | 24686.2 | 24816.6 | 25918.1 | 20204.4 |
| 67.5° | 2524.1 | 2565.0 | 3125.4 | 4265.8 | 6486.3 | 11947.1 | 22911.4 | 29487.3 | 28800.3 | 29329.6 | 23004.8 |
| 70° | 1895.5 | 1946.1 | 2331.4 | 2919.1 | 3954.5 | 6830.8 | 18425.6 | 30651.0 | 31610.4 | 31474.2 | 23857.2 |
| 71° | 1648.3 | 1700.9 | 2101.8 | 2656.4 | 3322.0 | 5272.0 | 15524.0 | 29432.8 | 31707.8 | 31684.4 | 23536.1 |
| 72.5° | 1405.1 | 1438.2 | 1751.5 | 2249.7 | 2800.4 | 3695.6 | 11663.0 | 26396.9 | 30355.2 | 31131.7 | 22389.8 |
| 75° | 1103.4 | 1128.7 | 1268.9 | 1716.5 | 2204.9 | 2269.1 | 6258.6 | 19789.9 | 24931.4 | 26410.5 | 18639.7 |
| 77.5° | 899.1 | 916.6 | 988.6 | 1274.7 | 1700.9 | 1607.5 | 3283.1 | 12881.2 | 15619.4 | 17108.1 | 10979.9 |
| 80° | 714.2 | 733.7 | 776.5 | 864.1 | 1274.7 | 1146.3 | 1566.6 | 6527.2 | 7545.0 | 7529.4 | 4382.6 |
| 82.5° | 554.6 | 560.5 | 611.1 | 634.4 | 871.9 | 813.5 | 848.5 | 2763.5 | 3061.2 | 3162.4 | 1582.2 |
| 85° | 350.3 | 367.8 | 541.0 | 486.5 | 521.6 | 476.8 | 418.4 | 1097.6 | 1352.5 | 1333.1 | 632.5 |
| 87.5° | 107.0 | 112.9 | 182.9 | 206.3 | 231.6 | 208.2 | 153.7 | 323.1 | 395.1 | 428.1 | 157.6 |
| 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° | 4345.6 | 4345.6 | 4345.6 | 4345.6 | 4345.6 | 4345.6 | 4345.6 | 4345.6 | 4345.6 | 4345.6 | 4345.6 |
| 2.5° | 4370.9 | 4349.5 | 4273.6 | 4211.4 | 4153.0 | 4088.7 | 4034.3 | 4018.7 | 4005.1 | 3999.2 | 3997.3 |
| 5° | 4411.8 | 4347.6 | 4197.7 | 4075.1 | 3977.8 | 3888.3 | 3831.9 | 3806.6 | 3781.3 | 3781.3 | 3789.0 |
| 7.5° | 4470.2 | 4353.4 | 4121.8 | 3938.9 | 3816.3 | 3732.6 | 3691.7 | 3687.9 | 3693.7 | 3699.5 | 3701.5 |
| 10° | 4534.4 | 4349.5 | 4010.9 | 3783.2 | 3674.2 | 3635.3 | 3637.3 | 3670.3 | 3701.5 | 3724.8 | 3728.7 |
| 12.5° | 4596.7 | 4326.2 | 3880.5 | 3637.3 | 3567.2 | 3575.0 | 3629.5 | 3703.4 | 3763.8 | 3796.8 | 3798.8 |
| 15° | 4666.7 | 4289.2 | 3722.9 | 3499.1 | 3475.7 | 3536.1 | 3637.3 | 3750.1 | 3841.6 | 3896.1 | 3901.9 |
| 17.5° | 4725.1 | 4226.9 | 3557.5 | 3364.8 | 3394.0 | 3504.9 | 3645.0 | 3791.0 | 3901.9 | 3970.0 | 3981.7 |
| 20° | 4791.3 | 4147.1 | 3386.2 | 3236.4 | 3320.0 | 3469.9 | 3629.5 | 3787.1 | 3901.9 | 3968.1 | 3983.7 |
| 22.5° | 4843.8 | 4034.3 | 3222.7 | 3131.3 | 3253.9 | 3427.1 | 3576.9 | 3703.4 | 3796.8 | 3831.9 | 3855.2 |
| 25° | 4865.2 | 3892.2 | 3069.0 | 3045.6 | 3201.3 | 3357.0 | 3458.2 | 3530.2 | 3559.4 | 3555.5 | 3565.2 |
| 27.5° | 4853.6 | 3728.7 | 2936.7 | 2977.5 | 3135.2 | 3248.0 | 3298.6 | 3292.8 | 3240.3 | 3191.6 | 3215.0 |
| 30° | 4804.9 | 3534.1 | 2825.7 | 2907.5 | 3049.5 | 3111.8 | 3104.0 | 3028.1 | 2928.9 | 2837.4 | 2843.2 |
| 32.5° | 4717.3 | 3323.9 | 2722.6 | 2827.7 | 2928.9 | 2956.1 | 2903.6 | 2804.3 | 2662.3 | 2543.5 | 2526.0 |
| 35° | 4643.4 | 3123.5 | 2631.1 | 2736.2 | 2808.2 | 2794.6 | 2744.0 | 2615.6 | 2487.1 | 2382.0 | 2364.5 |
| 37.5° | 4631.7 | 2952.2 | 2543.5 | 2633.1 | 2673.9 | 2654.5 | 2592.2 | 2483.2 | 2436.5 | 2356.7 | 2347.0 |
| 40° | 4694.0 | 2831.6 | 2454.0 | 2524.1 | 2543.5 | 2528.0 | 2459.9 | 2397.6 | 2440.4 | 2420.9 | 2420.9 |
| 42.5° | 4863.3 | 2767.3 | 2374.2 | 2415.1 | 2430.7 | 2442.4 | 2393.7 | 2341.2 | 2393.7 | 2304.2 | 2275.0 |
| 45° | 5131.9 | 2769.3 | 2302.2 | 2308.1 | 2354.8 | 2395.6 | 2362.6 | 2284.7 | 2257.5 | 2078.4 | 2043.4 |
| 47.5° | 5526.9 | 2835.5 | 2243.8 | 2206.9 | 2290.6 | 2358.7 | 2312.0 | 2199.1 | 2078.4 | 1959.7 | 1938.3 |
| 50° | 5988.1 | 2954.2 | 2191.3 | 2101.8 | 2204.9 | 2312.0 | 2276.9 | 2144.6 | 2020.0 | 1948.0 | 1934.4 |
| 52.5° | 6500.0 | 3104.0 | 2127.1 | 1985.0 | 2099.8 | 2290.6 | 2284.7 | 2136.8 | 1965.6 | 1916.9 | 1905.2 |
| 55° | 7132.4 | 3251.9 | 2047.3 | 1848.8 | 2006.4 | 2273.0 | 2263.3 | 2072.6 | 1953.9 | 1918.9 | 1915.0 |
| 57.5° | 7868.1 | 3466.0 | 1932.5 | 1710.6 | 1899.4 | 2201.0 | 2179.6 | 2033.7 | 1915.0 | 1889.7 | 1887.7 |
| 60° | 9053.2 | 3798.8 | 1769.0 | 1584.1 | 1790.4 | 2074.5 | 2101.8 | 1967.5 | 1852.7 | 1846.8 | 1844.9 |
| 62.5° | 10612.1 | 4265.8 | 1599.7 | 1453.7 | 1663.9 | 1911.1 | 1988.9 | 1878.0 | 1786.5 | 1815.7 | 1819.6 |
| 65° | 12764.4 | 4659.0 | 1424.5 | 1342.8 | 1523.8 | 1753.4 | 1881.9 | 1794.3 | 1712.6 | 1769.0 | 1769.0 |
| 67.5° | 14167.6 | 4666.7 | 1265.0 | 1228.0 | 1381.7 | 1621.1 | 1769.0 | 1695.1 | 1617.2 | 1712.6 | 1716.5 |
| 70° | 13875.7 | 4088.7 | 1132.6 | 1107.3 | 1243.6 | 1479.0 | 1644.5 | 1586.1 | 1496.5 | 1582.2 | 1551.0 |
| 71° | 13404.7 | 3767.6 | 1080.1 | 1060.6 | 1189.1 | 1410.9 | 1586.1 | 1537.4 | 1447.9 | 1504.3 | 1486.8 |
| 72.5° | 12653.5 | 3271.4 | 994.5 | 998.3 | 1107.3 | 1325.3 | 1504.3 | 1453.7 | 1364.2 | 1395.4 | 1389.5 |
| 75° | 10695.7 | 2856.9 | 850.4 | 868.0 | 951.6 | 1179.3 | 1340.9 | 1301.9 | 1210.5 | 1210.5 | 1204.6 |
| 77.5° | 6686.8 | 1996.7 | 706.4 | 716.2 | 807.6 | 1010.0 | 1152.1 | 1119.0 | 1031.4 | 1002.2 | 994.5 |
| 80° | 2494.9 | 1031.4 | 552.7 | 564.4 | 620.8 | 796.0 | 953.6 | 922.4 | 832.9 | 799.8 | 768.7 |
| 82.5° | 943.9 | 517.7 | 406.7 | 397.0 | 457.3 | 607.2 | 747.3 | 710.3 | 640.3 | 560.5 | 537.1 |
| 85° | 356.1 | 256.9 | 249.1 | 241.3 | 268.6 | 360.0 | 463.2 | 455.4 | 381.4 | 325.0 | 319.2 |
| 87.5° | 93.4 | 83.7 | 97.3 | 72.0 | 75.9 | 68.1 | 70.1 | 29.2 | 13.6 | 5.8 | 3.9 |
| 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)