

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: P383657

Luminaire Tested: **GLEON-SA9B-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383657
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9B-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48659.4 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

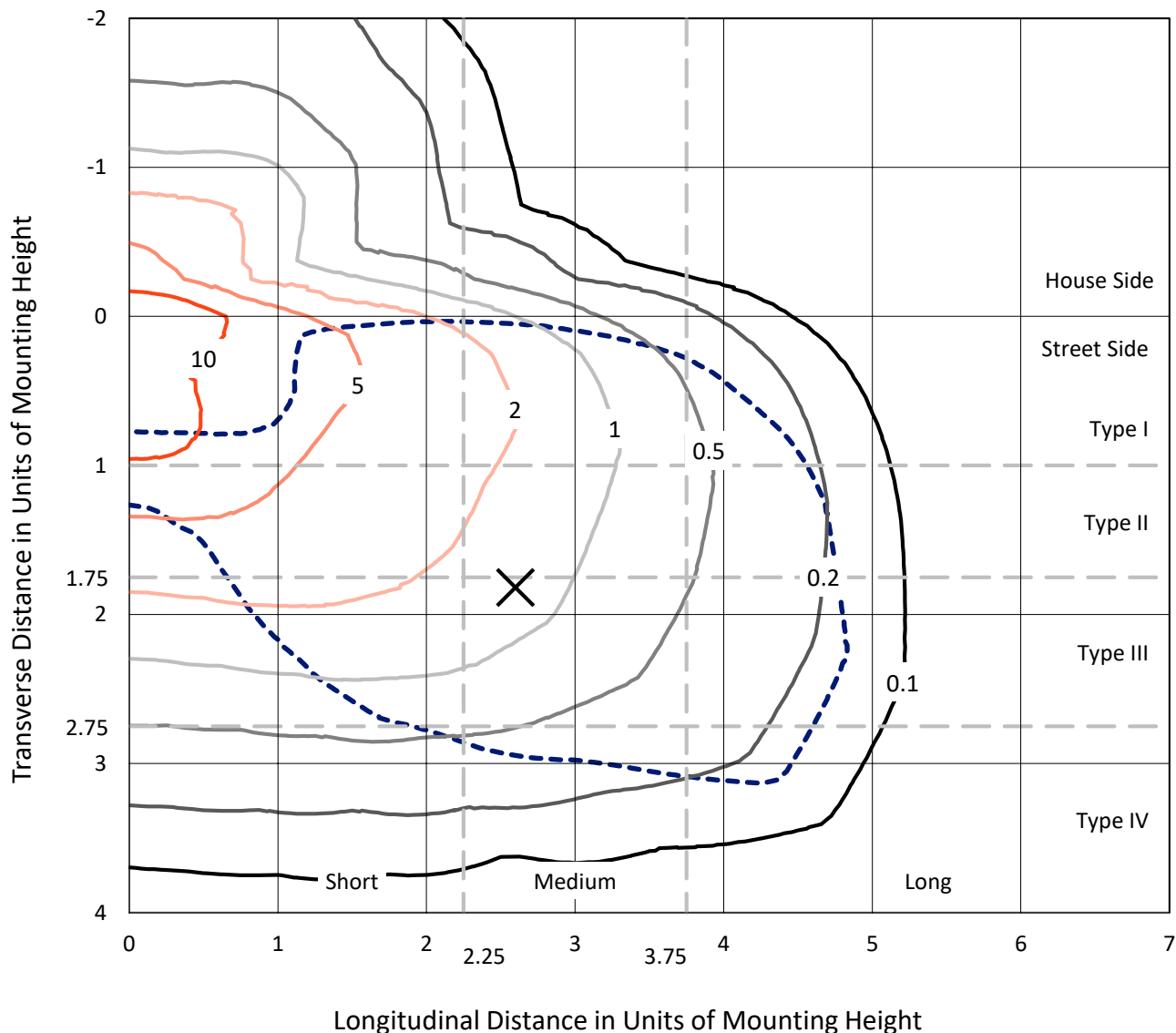
Input Watts (W): 374
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

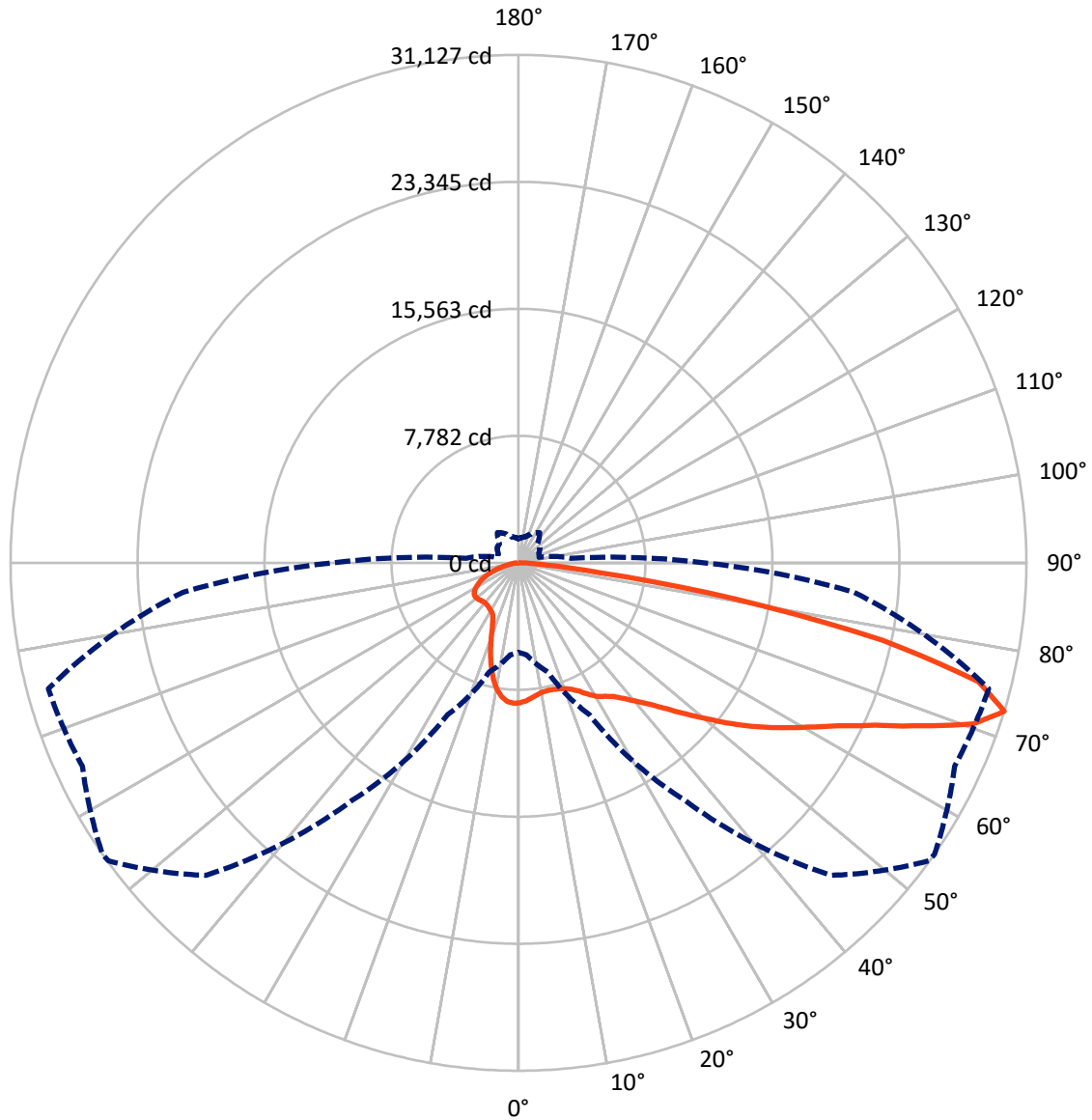
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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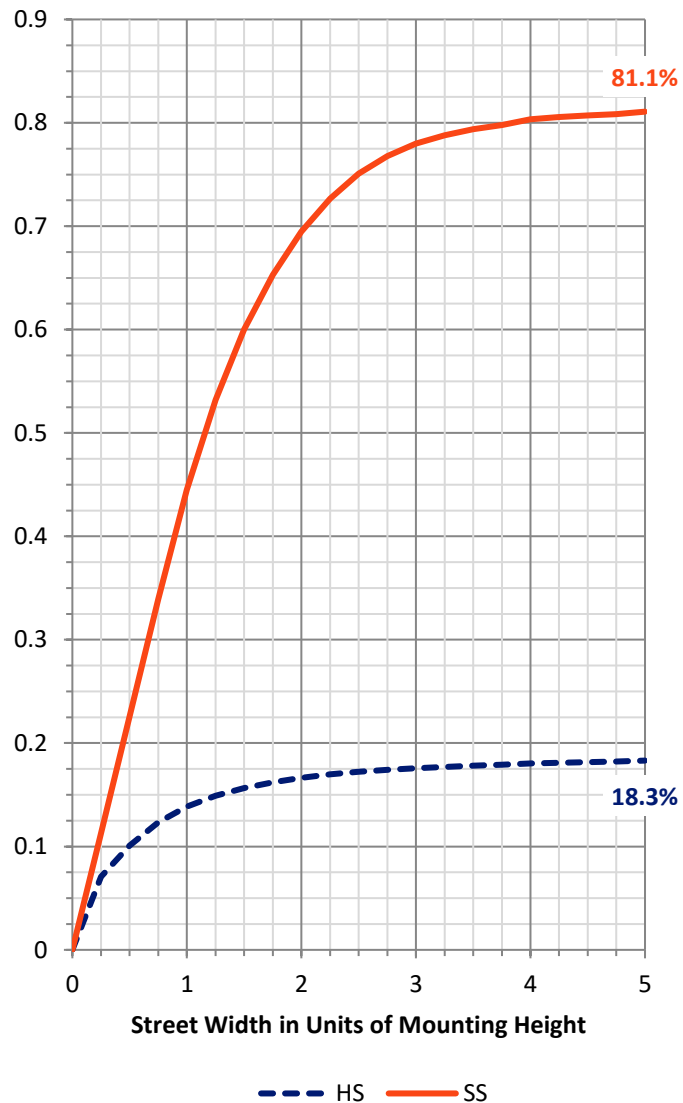
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9044.2 | 0.0 | 9044.2 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 39615.2 | 0.0 | 39615.2 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 48659.4 | 0.0 | 48659.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 776.6 | 1.6 |
| 10°-20° | 2067.6 | 4.2 |
| 20°-30° | 3409.0 | 7.0 |
| 30°-40° | 5042.8 | 10.4 |
| 40°-50° | 7038.7 | 14.5 |
| 50°-60° | 9164.5 | 18.8 |
| 60°-70° | 11263.0 | 23.1 |
| 70°-80° | 8828.8 | 18.1 |
| 80°-90° | 1068.4 | 2.2 |
| 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° | 48659.4 | 100.0 |
| 0°-180° | 48659.4 | 100.0 |

Coefficient of Utilization

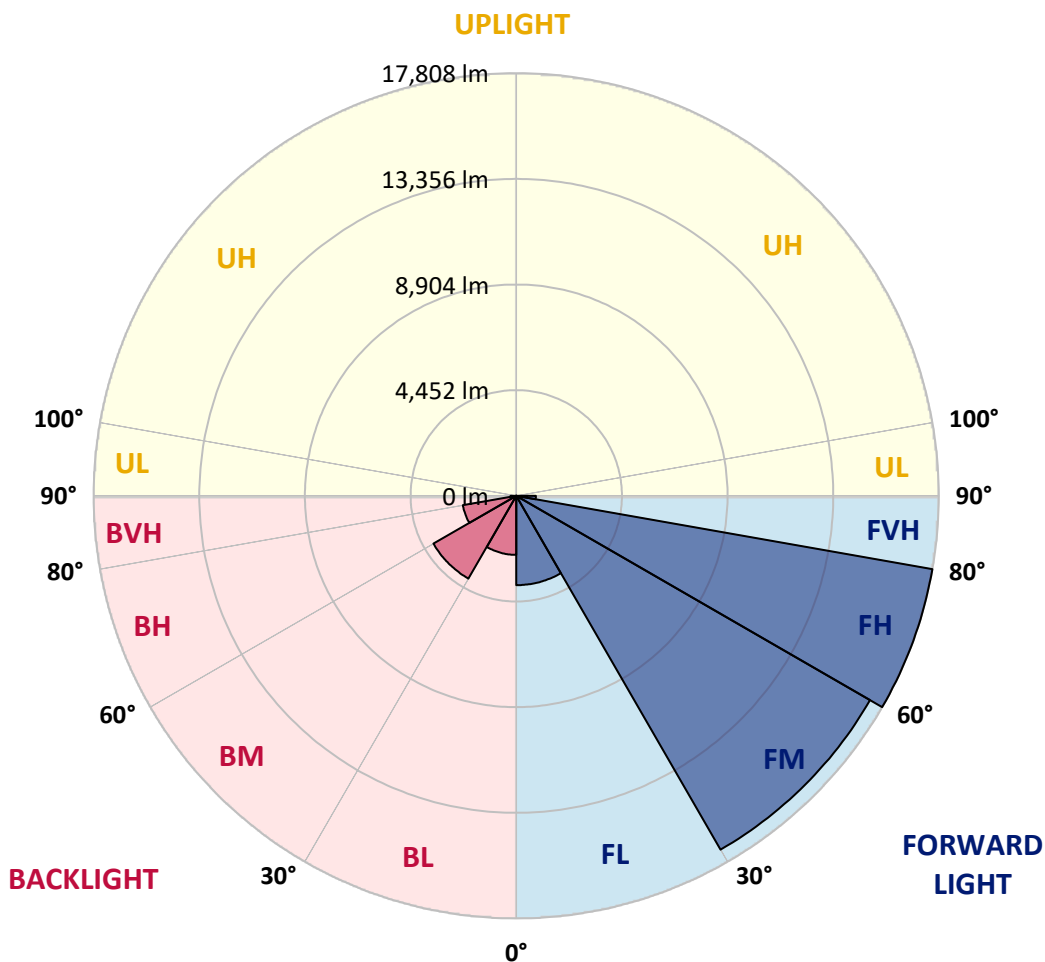


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3764.8 | 7.7 | | | |
| FM (30°-60°) | 17216.6 | 35.4 | | | |
| FH (60°-80°) | 17807.7 | 36.6 | | | G5 |
| FVH (80°-90°) | 826.0 | 1.7 | | | G5 |
| BL (0°-30°) | 2488.4 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 4029.3 | 8.3 | B3/5000 | | |
| BH (60°-80°) | 2284.1 | 4.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 242.4 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8582.4 | 8582.4 | 8582.4 | 8582.4 | 8582.4 | 8582.4 | 8582.4 | 8582.4 | 8582.4 | 8582.4 | 8582.4 |
| 2.5° | 8303.1 | 8283.3 | 8308.0 | 8342.5 | 8380.3 | 8431.3 | 8460.9 | 8474.0 | 8525.0 | 8544.7 | 8587.4 |
| 5° | 7918.5 | 7908.7 | 7949.7 | 8008.9 | 8092.7 | 8211.0 | 8306.3 | 8324.4 | 8459.2 | 8554.5 | 8641.6 |
| 7.5° | 7639.1 | 7639.1 | 7686.8 | 7757.5 | 7851.1 | 8010.6 | 8145.3 | 8170.0 | 8398.4 | 8603.9 | 8764.9 |
| 10° | 7417.2 | 7425.5 | 7481.4 | 7565.1 | 7675.2 | 7844.6 | 8023.7 | 8051.6 | 8382.0 | 8718.9 | 8975.3 |
| 12.5° | 7269.3 | 7289.0 | 7339.9 | 7415.6 | 7552.0 | 7757.5 | 7984.2 | 8022.0 | 8416.4 | 8883.2 | 9228.4 |
| 15° | 7363.0 | 7395.8 | 7400.8 | 7432.0 | 7507.6 | 7731.1 | 8007.2 | 8046.7 | 8490.4 | 9050.9 | 9515.9 |
| 17.5° | 7773.9 | 7785.3 | 7734.5 | 7668.7 | 7632.5 | 7775.5 | 8076.2 | 8117.3 | 8579.2 | 9216.8 | 9792.1 |
| 20° | 8398.4 | 8391.8 | 8281.7 | 8104.2 | 7920.1 | 7943.1 | 8189.7 | 8232.4 | 8699.2 | 9363.2 | 10068.2 |
| 22.5° | 9187.3 | 9164.3 | 8995.0 | 8668.0 | 8354.0 | 8222.6 | 8388.5 | 8424.7 | 8880.0 | 9571.8 | 10364.0 |
| 25° | 10143.8 | 10092.9 | 9869.4 | 9430.5 | 8968.7 | 8630.1 | 8687.6 | 8722.2 | 9143.0 | 9805.3 | 10635.2 |
| 27.5° | 11153.0 | 11102.0 | 10817.7 | 10286.8 | 9672.2 | 9144.5 | 9100.2 | 9129.7 | 9442.1 | 9977.8 | 10835.8 |
| 30° | 12208.1 | 12153.8 | 11894.2 | 11299.2 | 10418.2 | 9677.0 | 9484.7 | 9496.3 | 9652.4 | 10071.5 | 11000.1 |
| 32.5° | 13268.1 | 13217.2 | 12926.3 | 12236.1 | 11228.5 | 10249.0 | 9762.5 | 9747.7 | 9778.9 | 10168.5 | 11185.8 |
| 35° | 14343.0 | 14362.7 | 14022.5 | 13258.3 | 12125.9 | 10885.0 | 10091.2 | 10060.0 | 9990.9 | 10367.4 | 11448.8 |
| 37.5° | 15493.5 | 15480.4 | 15039.8 | 14241.1 | 13064.4 | 11575.3 | 10562.9 | 10558.0 | 10319.7 | 10743.7 | 11861.3 |
| 40° | 16262.7 | 16270.9 | 16003.0 | 15246.9 | 14012.6 | 12339.6 | 11167.8 | 11156.2 | 10844.0 | 11307.4 | 12402.0 |
| 42.5° | 16563.4 | 16617.7 | 16686.7 | 16206.8 | 15005.4 | 13225.5 | 11889.2 | 11872.8 | 11575.3 | 12116.1 | 13038.0 |
| 45° | 16584.8 | 16693.2 | 17120.5 | 17059.7 | 16011.2 | 14239.5 | 12811.3 | 12765.3 | 12551.6 | 13190.9 | 13797.3 |
| 47.5° | 16400.7 | 16512.4 | 17222.5 | 17567.6 | 16910.2 | 15309.4 | 13889.4 | 13853.2 | 13669.2 | 14535.3 | 14619.1 |
| 50° | 15998.0 | 16104.9 | 17012.1 | 17815.8 | 17649.8 | 16338.2 | 15131.9 | 15036.6 | 14937.9 | 16088.4 | 15559.2 |
| 52.5° | 15243.7 | 15449.1 | 16731.1 | 17874.9 | 18091.9 | 17252.1 | 16438.5 | 16376.0 | 16430.3 | 17727.0 | 16501.0 |
| 55° | 13457.1 | 13687.2 | 16006.2 | 17825.6 | 18418.9 | 18019.6 | 17745.1 | 17741.8 | 18022.8 | 19446.1 | 17511.7 |
| 57.5° | 12456.3 | 12618.9 | 14530.4 | 17741.8 | 18806.8 | 18782.1 | 19038.6 | 19069.8 | 19617.1 | 21318.1 | 18570.1 |
| 60° | 11890.8 | 12061.8 | 13782.5 | 17431.2 | 19408.3 | 19768.3 | 20358.3 | 20420.7 | 21237.6 | 23390.6 | 19843.9 |
| 62.5° | 11376.4 | 11563.9 | 13319.1 | 16798.4 | 20116.7 | 21178.5 | 21939.3 | 21995.2 | 22953.4 | 25520.6 | 21074.9 |
| 65° | 10497.1 | 10709.2 | 12640.4 | 16382.7 | 20760.9 | 23017.5 | 23949.4 | 23987.2 | 24924.0 | 27752.5 | 22016.6 |
| 67.5° | 9254.6 | 9448.6 | 11360.0 | 15463.9 | 21237.6 | 25251.1 | 26621.8 | 26643.1 | 26878.1 | 29328.7 | 22498.2 |
| 70° | 7803.5 | 7877.4 | 9535.7 | 13567.2 | 20673.8 | 27340.0 | 29550.6 | 29555.5 | 28659.7 | 30337.8 | 22419.3 |
| 72.5° | 5482.8 | 5657.0 | 6922.5 | 10270.4 | 17766.5 | 27085.2 | 31070.7 | 31126.6 | 29488.0 | 29828.2 | 20627.8 |
| 75° | 3362.6 | 3546.7 | 4342.2 | 6224.0 | 11271.3 | 21301.7 | 28707.4 | 29095.3 | 27935.0 | 26595.5 | 16851.0 |
| 77.5° | 2248.4 | 2317.4 | 2833.4 | 3628.9 | 5106.5 | 12255.7 | 22070.9 | 22800.6 | 23206.5 | 19395.2 | 10776.6 |
| 80° | 1254.0 | 1385.5 | 1878.6 | 2254.9 | 2271.4 | 4869.8 | 13233.7 | 13404.6 | 12911.5 | 7722.9 | 3324.9 |
| 82.5° | 664.0 | 736.3 | 1254.0 | 1324.7 | 1239.2 | 1630.4 | 4932.2 | 4937.1 | 4125.3 | 2070.8 | 987.7 |
| 85° | 514.4 | 575.2 | 859.5 | 808.6 | 632.8 | 723.2 | 1627.0 | 1715.8 | 1403.6 | 848.1 | 322.1 |
| 87.5° | 256.4 | 318.9 | 583.4 | 512.8 | 248.2 | 207.1 | 581.8 | 621.2 | 553.9 | 332.0 | 116.7 |
| 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° | 8582.4 | 8582.4 | 8582.4 | 8582.4 | 8582.4 | 8582.4 | 8582.4 | 8582.4 | 8582.4 | 8582.4 | 8582.4 |
| 2.5° | 8603.9 | 8618.6 | 8636.8 | 8617.0 | 8610.4 | 8584.1 | 8539.8 | 8529.9 | 8506.9 | 8508.5 | 8521.7 |
| 5° | 8679.4 | 8704.1 | 8694.2 | 8618.6 | 8528.2 | 8401.7 | 8270.2 | 8158.4 | 8084.4 | 8079.6 | 8074.7 |
| 7.5° | 8824.1 | 8840.5 | 8763.3 | 8548.0 | 8294.9 | 8002.3 | 7726.2 | 7484.6 | 7338.4 | 7302.1 | 7293.9 |
| 10° | 9050.9 | 9047.6 | 8835.5 | 8401.7 | 7897.1 | 7374.5 | 6930.7 | 6595.5 | 6399.9 | 6342.3 | 6327.5 |
| 12.5° | 9304.0 | 9266.2 | 8860.2 | 8135.4 | 7335.0 | 6610.3 | 6048.2 | 5675.1 | 5471.3 | 5405.6 | 5389.1 |
| 15° | 9565.3 | 9471.6 | 8799.4 | 7737.7 | 6644.7 | 5786.9 | 5196.8 | 4851.7 | 4741.6 | 4705.4 | 4698.8 |
| 17.5° | 9808.5 | 9627.7 | 8625.2 | 7198.6 | 5857.5 | 4966.7 | 4506.5 | 4368.5 | 4394.8 | 4442.5 | 4444.0 |
| 20° | 10046.8 | 9732.9 | 8345.8 | 6518.2 | 5027.6 | 4291.3 | 4135.1 | 4237.0 | 4361.9 | 4458.9 | 4472.0 |
| 22.5° | 10281.9 | 9806.9 | 7985.9 | 5732.6 | 4284.7 | 3911.6 | 4021.7 | 4207.4 | 4350.4 | 4455.6 | 4473.7 |
| 25° | 10479.1 | 9824.9 | 7489.5 | 4894.4 | 3768.6 | 3768.6 | 3967.5 | 4143.3 | 4284.7 | 4388.2 | 4406.3 |
| 27.5° | 10551.5 | 9703.4 | 6789.4 | 4118.7 | 3509.0 | 3702.8 | 3891.8 | 4038.2 | 4158.1 | 4268.3 | 4287.9 |
| 30° | 10579.3 | 9478.2 | 5980.8 | 3495.7 | 3402.1 | 3632.2 | 3790.0 | 3914.8 | 4028.3 | 4131.8 | 4149.9 |
| 32.5° | 10584.2 | 9207.0 | 5122.9 | 3142.4 | 3328.1 | 3558.2 | 3663.4 | 3773.5 | 3895.2 | 3936.3 | 3942.8 |
| 35° | 10615.5 | 8886.5 | 4218.9 | 2961.7 | 3259.1 | 3489.2 | 3573.0 | 3651.9 | 3454.6 | 3469.5 | 3482.6 |
| 37.5° | 10705.9 | 8569.3 | 3462.9 | 2859.8 | 3214.8 | 3453.1 | 3553.3 | 3267.3 | 3112.9 | 3076.7 | 3071.8 |
| 40° | 10875.2 | 8230.8 | 2902.4 | 2777.6 | 3198.3 | 3471.1 | 3426.7 | 3050.4 | 2784.1 | 2585.2 | 2555.7 |
| 42.5° | 11110.2 | 7865.9 | 2544.1 | 2723.3 | 3209.8 | 3558.2 | 3250.9 | 2841.7 | 2399.6 | 2271.4 | 2254.9 |
| 45° | 11374.8 | 7482.9 | 2350.2 | 2685.6 | 3249.2 | 3625.6 | 3214.8 | 2563.9 | 2220.4 | 2123.5 | 2115.2 |
| 47.5° | 11631.2 | 7014.6 | 2250.0 | 2669.1 | 3303.5 | 3571.4 | 3061.9 | 2478.5 | 2134.9 | 2084.0 | 2088.9 |
| 50° | 11925.4 | 6592.2 | 2189.1 | 2651.0 | 3351.1 | 3536.9 | 2889.3 | 2434.0 | 2102.0 | 2164.5 | 2230.2 |
| 52.5° | 12173.6 | 6155.0 | 2134.9 | 2614.9 | 3369.2 | 3476.1 | 2844.9 | 2442.2 | 2102.0 | 2222.0 | 2284.5 |
| 55° | 12467.7 | 5824.6 | 2072.5 | 2539.2 | 3334.7 | 3303.5 | 2813.7 | 2491.6 | 2126.7 | 2051.1 | 2057.7 |
| 57.5° | 12847.4 | 5716.2 | 2003.5 | 2420.9 | 3219.6 | 3052.0 | 2798.9 | 2539.2 | 2111.9 | 2064.3 | 2080.7 |
| 60° | 13373.3 | 5831.2 | 1975.5 | 2266.5 | 3040.5 | 2854.8 | 2800.6 | 2514.6 | 2008.4 | 1926.2 | 1927.8 |
| 62.5° | 13874.6 | 5959.4 | 1973.9 | 2169.5 | 2820.3 | 2678.9 | 2762.8 | 2434.0 | 1955.8 | 1908.1 | 1926.2 |
| 65° | 14039.0 | 5829.5 | 1895.0 | 2061.0 | 2572.1 | 2468.6 | 2693.8 | 2348.6 | 1916.4 | 1844.0 | 1840.7 |
| 67.5° | 13818.8 | 5426.9 | 1735.6 | 1885.1 | 2287.8 | 2223.7 | 2603.3 | 2246.7 | 1853.9 | 1794.7 | 1784.8 |
| 70° | 13164.6 | 4527.9 | 1538.4 | 1653.4 | 1964.0 | 1947.6 | 2460.3 | 2128.4 | 1770.0 | 1719.1 | 1676.4 |
| 72.5° | 11404.4 | 3226.2 | 1296.7 | 1375.6 | 1599.2 | 1651.7 | 2263.1 | 1973.9 | 1651.7 | 1541.6 | 1475.9 |
| 75° | 9366.4 | 2388.0 | 1065.0 | 1081.4 | 1214.6 | 1357.5 | 1991.9 | 1793.0 | 1512.0 | 1324.7 | 1273.7 |
| 77.5° | 5735.9 | 1461.1 | 848.1 | 854.6 | 871.1 | 1083.1 | 1640.3 | 1590.9 | 1334.5 | 1104.4 | 1068.3 |
| 80° | 1857.1 | 797.1 | 613.1 | 644.3 | 595.0 | 793.9 | 1268.8 | 1354.3 | 1145.5 | 923.6 | 884.2 |
| 82.5° | 706.7 | 465.1 | 414.2 | 435.5 | 412.5 | 532.5 | 925.3 | 1084.7 | 938.4 | 759.3 | 618.0 |
| 85° | 341.9 | 263.0 | 244.9 | 274.4 | 254.8 | 272.9 | 591.6 | 798.7 | 711.6 | 494.7 | 460.2 |
| 87.5° | 121.7 | 116.7 | 93.7 | 126.6 | 108.4 | 97.0 | 180.8 | 402.7 | 470.1 | 340.2 | 304.1 |
| 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)