

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: P318544

Luminaire Tested: **GLEON-SA0D-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0D-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56470 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

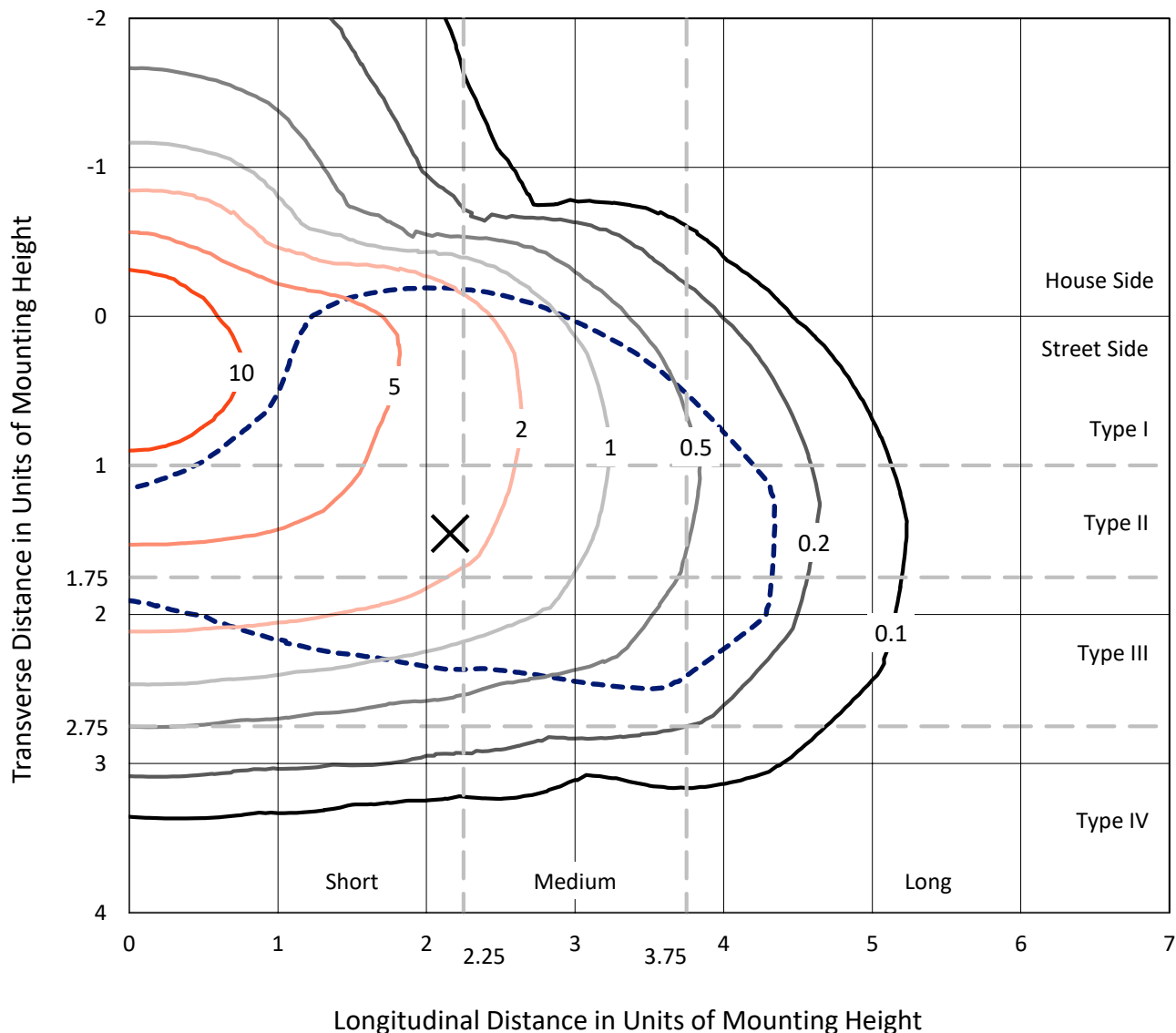
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

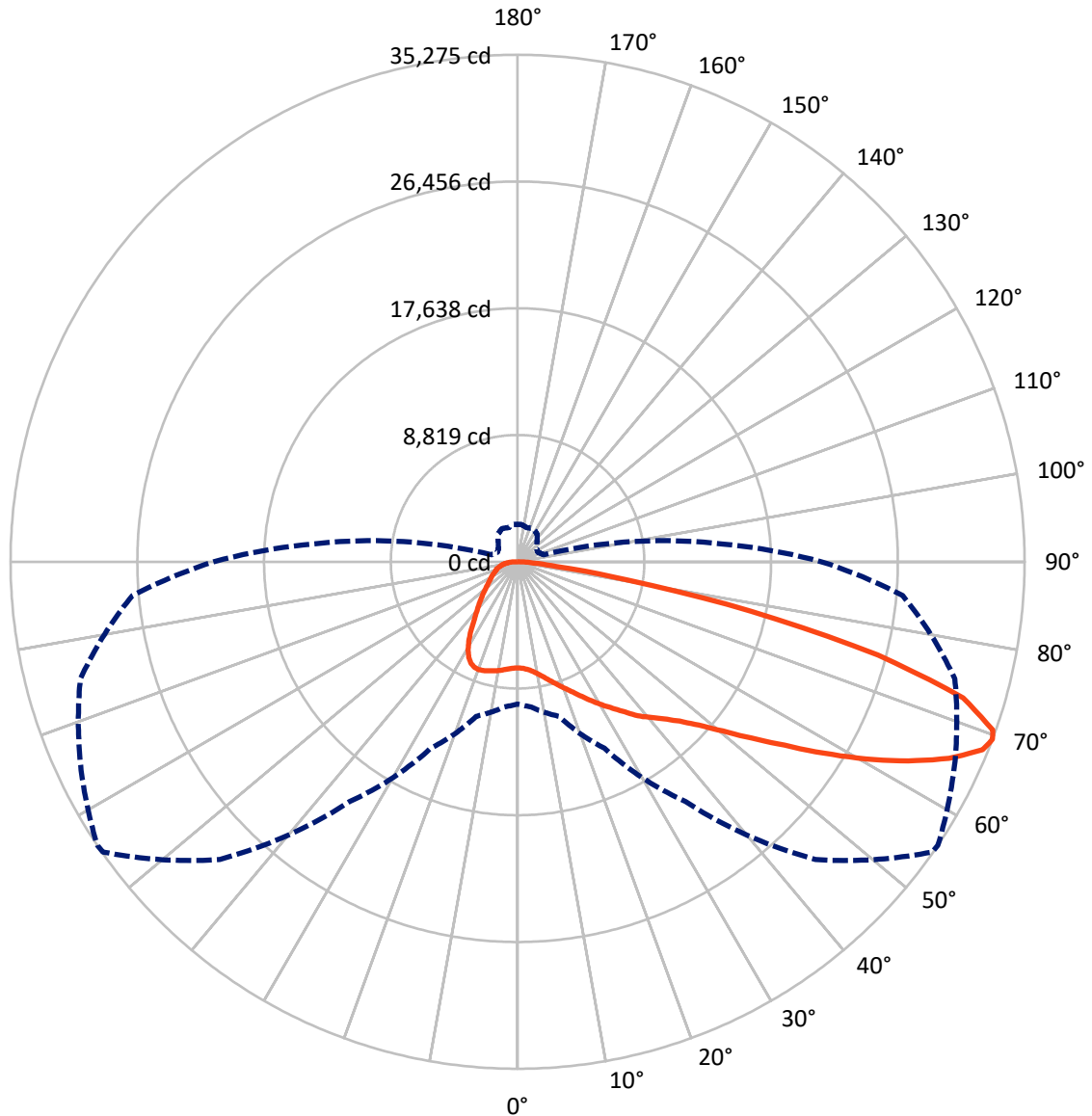
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12575.8 | 0.0 | 12575.8 |
| | % Fixture | 22.3 | 0.0 | 22.3 |
| Street Side | Lumens | 43894.2 | 0.0 | 43894.2 |
| | % Fixture | 77.7 | 0.0 | 77.7 |
| Total | Lumens | 56470.0 | 0.0 | 56470.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 725.1 | 1.3 |
| 10°-20° | 2331.6 | 4.1 |
| 20°-30° | 4070.1 | 7.2 |
| 30°-40° | 5846.5 | 10.4 |
| 40°-50° | 8091.3 | 14.3 |
| 50°-60° | 11854.8 | 21.0 |
| 60°-70° | 14453.2 | 25.6 |
| 70°-80° | 7990.7 | 14.2 |
| 80°-90° | 1106.7 | 2.0 |
| 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° | 56470.0 | 100.0 |
| 0°-180° | 56470.0 | 100.0 |

Coefficient of Utilization

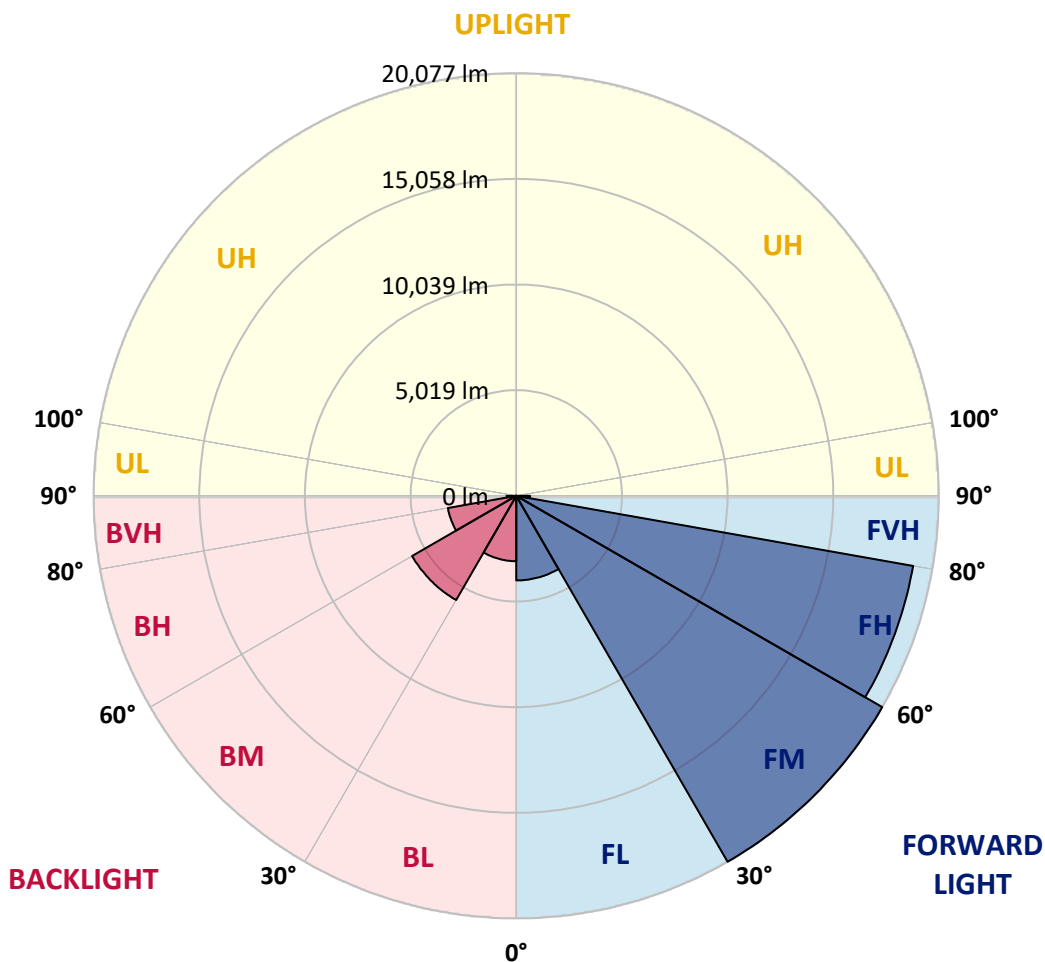


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4019.0 | 7.1 | | | |
| FM (30°-60°) | 20077.2 | 35.6 | | | |
| FH (60°-80°) | 19146.2 | 33.9 | | | G5 |
| FVH (80°-90°) | 651.9 | 1.2 | | | G4/750 |
| BL (0°-30°) | 3107.8 | 5.5 | B4/5000 | | |
| BM (30°-60°) | 5715.4 | 10.1 | B4/8500 | | |
| BH (60°-80°) | 3297.8 | 5.8 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 454.8 | 0.8 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7382.6 | 7382.6 | 7382.6 | 7382.6 | 7382.6 | 7382.6 | 7382.6 | 7382.6 | 7382.6 | 7382.6 | 7382.6 |
| 2.5° | 7429.3 | 7437.1 | 7431.2 | 7446.8 | 7429.3 | 7441.0 | 7431.2 | 7431.2 | 7425.4 | 7407.9 | 7388.4 |
| 5° | 7546.0 | 7561.6 | 7551.8 | 7567.4 | 7546.0 | 7549.9 | 7532.4 | 7532.4 | 7514.9 | 7477.9 | 7439.0 |
| 7.5° | 7728.9 | 7746.4 | 7738.6 | 7754.2 | 7725.0 | 7725.0 | 7701.6 | 7699.7 | 7664.7 | 7604.4 | 7559.6 |
| 10° | 7946.8 | 7970.1 | 7962.3 | 7985.7 | 7962.3 | 7970.1 | 7946.8 | 7946.8 | 7900.1 | 7814.5 | 7758.1 |
| 12.5° | 8263.8 | 8293.0 | 8271.6 | 8269.7 | 8260.0 | 8275.5 | 8256.1 | 8252.2 | 8209.4 | 8092.7 | 8014.8 |
| 15° | 8687.9 | 8719.1 | 8674.3 | 8670.4 | 8616.0 | 8610.1 | 8610.1 | 8604.3 | 8577.0 | 8437.0 | 8308.6 |
| 17.5° | 9176.2 | 9185.9 | 9147.0 | 9084.8 | 9014.8 | 8970.0 | 8964.2 | 8979.7 | 8979.7 | 8816.3 | 8612.1 |
| 20° | 9654.8 | 9672.3 | 9641.2 | 9571.1 | 9481.6 | 9415.5 | 9368.8 | 9399.9 | 9398.0 | 9203.4 | 8913.6 |
| 22.5° | 10176.1 | 10217.0 | 10170.3 | 10080.8 | 9975.8 | 9901.8 | 9820.1 | 9847.4 | 9849.3 | 9610.0 | 9209.3 |
| 25° | 10851.2 | 10814.2 | 10785.0 | 10658.6 | 10508.8 | 10432.9 | 10357.0 | 10384.3 | 10376.5 | 10047.7 | 9514.7 |
| 27.5° | 11448.4 | 11456.2 | 11417.3 | 11283.0 | 11109.9 | 10942.6 | 10938.7 | 10956.2 | 10927.0 | 10502.9 | 9802.6 |
| 30° | 12142.9 | 12146.8 | 12092.3 | 11971.7 | 11783.0 | 11567.0 | 11516.5 | 11545.7 | 11483.4 | 10934.8 | 10106.1 |
| 32.5° | 12833.5 | 12852.9 | 12792.6 | 12646.7 | 12495.0 | 12232.4 | 12131.2 | 12150.7 | 11995.0 | 11376.4 | 10419.3 |
| 35° | 13438.5 | 13465.7 | 13446.3 | 13349.0 | 13183.6 | 12958.0 | 12837.4 | 12825.7 | 12633.1 | 11917.2 | 10833.7 |
| 37.5° | 14055.2 | 14080.4 | 14059.0 | 13977.3 | 13911.2 | 13671.9 | 13607.7 | 13607.7 | 13273.1 | 12469.7 | 11360.8 |
| 40° | 14689.3 | 14728.2 | 14703.0 | 14590.1 | 14533.7 | 14424.8 | 14271.1 | 14234.1 | 13872.3 | 13133.1 | 12220.7 |
| 42.5° | 15278.8 | 15329.4 | 15430.5 | 15364.4 | 15249.6 | 15265.2 | 14955.8 | 14936.4 | 14671.8 | 14113.5 | 13300.4 |
| 45° | 16115.3 | 16189.2 | 16360.4 | 16309.8 | 16286.5 | 16200.9 | 15833.2 | 15815.7 | 15714.5 | 15432.5 | 14640.7 |
| 47.5° | 17027.6 | 17128.8 | 17438.1 | 17447.8 | 17698.8 | 17537.3 | 17037.4 | 16977.1 | 17000.4 | 17012.1 | 16276.7 |
| 50° | 17868.0 | 17978.9 | 18486.7 | 18725.9 | 19317.3 | 19352.3 | 18552.8 | 18498.3 | 18589.8 | 18858.2 | 18183.2 |
| 52.5° | 18539.2 | 18679.2 | 19313.4 | 20052.7 | 21066.2 | 21354.1 | 20418.4 | 20377.5 | 20445.6 | 20908.6 | 20338.6 |
| 55° | 19031.4 | 19183.1 | 19873.7 | 21219.9 | 22838.4 | 23346.1 | 22566.1 | 22527.2 | 22569.9 | 23159.4 | 22682.8 |
| 57.5° | 19146.1 | 19183.1 | 20184.9 | 22005.8 | 24334.4 | 25554.1 | 25194.2 | 25116.4 | 24906.3 | 25419.9 | 25270.1 |
| 60° | 18607.3 | 18755.1 | 19928.2 | 22282.0 | 25491.9 | 27731.0 | 27941.1 | 27843.8 | 27254.4 | 27674.5 | 27553.9 |
| 62.5° | 17514.0 | 17778.6 | 18969.1 | 21861.8 | 25945.1 | 29509.0 | 30635.4 | 30518.6 | 29503.2 | 29775.5 | 29195.8 |
| 65° | 15728.2 | 15841.0 | 17091.8 | 20412.6 | 25369.3 | 30647.0 | 33037.9 | 32979.5 | 31701.4 | 31275.4 | 29499.3 |
| 67.5° | 12533.9 | 12745.9 | 13808.1 | 17383.6 | 23013.5 | 30512.8 | 34895.7 | 34889.8 | 33137.1 | 31831.8 | 28423.5 |
| 69° | 9901.8 | 10121.7 | 11133.2 | 14319.7 | 20363.9 | 29285.3 | 35206.9 | 35275.0 | 33541.7 | 31493.3 | 26886.7 |
| 70° | 7894.2 | 8149.1 | 8843.6 | 12061.2 | 18012.0 | 27666.8 | 34948.2 | 35070.8 | 33463.9 | 30935.0 | 25468.5 |
| 72.5° | 3359.6 | 3565.8 | 4059.9 | 6217.3 | 10977.6 | 20659.6 | 31954.3 | 32417.3 | 31660.6 | 28312.6 | 21048.7 |
| 75° | 1466.8 | 1531.0 | 1754.7 | 2534.8 | 4873.1 | 11244.1 | 25032.8 | 25888.7 | 27071.5 | 23931.7 | 15679.5 |
| 77.5° | 1073.8 | 1101.1 | 1223.6 | 1488.2 | 2186.6 | 4246.7 | 16097.8 | 16595.8 | 19523.5 | 17414.8 | 9617.8 |
| 80° | 830.7 | 850.1 | 945.4 | 1093.3 | 1427.9 | 1717.7 | 7341.8 | 7769.7 | 10977.6 | 8944.7 | 4005.5 |
| 82.5° | 661.4 | 675.0 | 741.2 | 805.4 | 986.3 | 1040.8 | 2437.5 | 2704.0 | 4052.2 | 2470.6 | 1060.2 |
| 85° | 614.7 | 630.3 | 653.6 | 587.5 | 632.2 | 610.8 | 1054.4 | 1103.0 | 1223.6 | 970.7 | 443.5 |
| 87.5° | 278.2 | 328.8 | 647.8 | 457.2 | 336.5 | 268.5 | 431.9 | 451.3 | 507.7 | 509.7 | 196.5 |
| 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° | 7382.6 | 7382.6 | 7382.6 | 7382.6 | 7382.6 | 7382.6 | 7382.6 | 7382.6 | 7382.6 | 7382.6 | 7382.6 |
| 2.5° | 7400.1 | 7394.3 | 7404.0 | 7380.7 | 7409.8 | 7407.9 | 7398.2 | 7402.1 | 7421.5 | 7419.6 | 7421.5 |
| 5° | 7444.9 | 7441.0 | 7452.6 | 7435.1 | 7470.1 | 7481.8 | 7483.8 | 7501.3 | 7522.7 | 7528.5 | 7528.5 |
| 7.5° | 7557.7 | 7557.7 | 7563.5 | 7540.2 | 7563.5 | 7561.6 | 7551.8 | 7569.4 | 7590.8 | 7592.7 | 7590.8 |
| 10° | 7752.2 | 7754.2 | 7744.4 | 7684.1 | 7664.7 | 7612.2 | 7563.5 | 7565.5 | 7592.7 | 7614.1 | 7619.9 |
| 12.5° | 7997.3 | 7989.6 | 7946.8 | 7835.9 | 7754.2 | 7647.2 | 7596.6 | 7594.6 | 7621.9 | 7639.4 | 7645.2 |
| 15° | 8277.5 | 8256.1 | 8145.2 | 7964.3 | 7820.3 | 7715.3 | 7633.6 | 7614.1 | 7598.5 | 7579.1 | 7581.0 |
| 17.5° | 8542.0 | 8493.4 | 8308.6 | 8057.6 | 7905.9 | 7765.8 | 7608.3 | 7481.8 | 7394.3 | 7343.7 | 7328.1 |
| 20° | 8810.5 | 8715.2 | 8448.7 | 8145.2 | 7952.6 | 7697.7 | 7394.3 | 7137.5 | 6978.0 | 6904.0 | 6890.4 |
| 22.5° | 9055.6 | 8901.9 | 8579.0 | 8236.6 | 7915.6 | 7468.2 | 6991.6 | 6618.1 | 6396.3 | 6297.1 | 6304.9 |
| 25° | 9294.9 | 9080.9 | 8715.2 | 8300.8 | 7728.9 | 7063.6 | 6431.3 | 5972.2 | 5715.4 | 5604.6 | 5600.7 |
| 27.5° | 9505.0 | 9261.8 | 8863.0 | 8248.3 | 7380.7 | 6487.7 | 5768.0 | 5320.5 | 5106.5 | 5011.2 | 4995.7 |
| 30° | 9746.2 | 9489.4 | 9059.5 | 8047.9 | 6871.0 | 5822.4 | 5120.2 | 4805.0 | 4653.3 | 4558.0 | 4540.4 |
| 32.5° | 10040.0 | 9798.7 | 9221.0 | 7684.1 | 6219.3 | 5127.9 | 4614.4 | 4394.5 | 4256.4 | 4149.4 | 4130.0 |
| 35° | 10467.9 | 10207.3 | 9261.8 | 7162.8 | 5503.4 | 4579.4 | 4242.8 | 4017.1 | 3830.4 | 3692.3 | 3678.7 |
| 37.5° | 11004.8 | 10718.9 | 9168.4 | 6487.7 | 4808.9 | 4223.4 | 3933.5 | 3655.3 | 3412.1 | 3217.6 | 3186.5 |
| 40° | 11779.1 | 11347.2 | 8909.7 | 5709.6 | 4297.3 | 3949.1 | 3632.0 | 3314.9 | 3013.3 | 2785.7 | 2741.0 |
| 42.5° | 12709.0 | 12084.5 | 8512.9 | 4935.4 | 3921.8 | 3670.9 | 3332.4 | 2939.4 | 2651.5 | 2490.0 | 2466.7 |
| 45° | 13891.7 | 12851.0 | 7962.3 | 4258.4 | 3552.2 | 3392.7 | 3009.5 | 2647.6 | 2468.6 | 2350.0 | 2330.5 |
| 47.5° | 15241.8 | 13710.8 | 7384.5 | 3707.8 | 3239.0 | 3132.0 | 2750.7 | 2517.3 | 2375.3 | 2281.9 | 2264.4 |
| 50° | 16901.2 | 14681.6 | 6771.8 | 3256.5 | 2923.9 | 2818.8 | 2628.2 | 2445.3 | 2332.5 | 2260.5 | 2243.0 |
| 52.5° | 18772.6 | 15776.8 | 6330.2 | 2900.5 | 2663.2 | 2587.3 | 2564.0 | 2406.4 | 2315.0 | 2260.5 | 2243.0 |
| 55° | 20788.0 | 16891.5 | 5853.6 | 2600.9 | 2437.5 | 2458.9 | 2521.2 | 2410.3 | 2348.0 | 2281.9 | 2256.6 |
| 57.5° | 22805.3 | 18043.1 | 5322.5 | 2348.0 | 2258.6 | 2363.6 | 2492.0 | 2418.1 | 2365.5 | 2301.3 | 2278.0 |
| 60° | 24400.5 | 18772.6 | 4499.6 | 2136.0 | 2116.5 | 2258.6 | 2422.0 | 2359.7 | 2291.6 | 2293.6 | 2289.7 |
| 62.5° | 25145.6 | 18733.7 | 3591.1 | 1947.3 | 1974.5 | 2116.5 | 2309.1 | 2268.3 | 2211.9 | 2287.7 | 2293.6 |
| 65° | 24727.3 | 17800.0 | 2795.5 | 1776.1 | 1822.8 | 1968.7 | 2192.4 | 2223.5 | 2243.0 | 2388.9 | 2408.3 |
| 67.5° | 22972.6 | 15983.0 | 2165.2 | 1626.3 | 1684.7 | 1867.5 | 2204.1 | 2422.0 | 2447.3 | 2600.9 | 2599.0 |
| 69° | 21157.6 | 14278.9 | 1881.2 | 1548.5 | 1616.6 | 1892.8 | 2355.8 | 2548.4 | 2453.1 | 2616.5 | 2593.2 |
| 70° | 19636.4 | 12930.7 | 1729.4 | 1496.0 | 1585.5 | 1937.6 | 2457.0 | 2546.5 | 2423.9 | 2564.0 | 2525.1 |
| 72.5° | 15123.1 | 9302.7 | 1466.8 | 1398.7 | 1480.4 | 1853.9 | 2486.2 | 2490.0 | 2355.8 | 2383.1 | 2316.9 |
| 75° | 10372.6 | 5878.8 | 1280.0 | 1266.4 | 1320.9 | 1671.1 | 2392.8 | 2379.2 | 2178.8 | 2139.9 | 2085.4 |
| 77.5° | 5719.3 | 2986.1 | 1087.5 | 1140.0 | 1176.9 | 1480.4 | 2174.9 | 2155.4 | 1990.1 | 1908.4 | 1888.9 |
| 80° | 2206.0 | 1307.3 | 918.2 | 1013.5 | 1036.9 | 1282.0 | 1906.4 | 1888.9 | 1750.8 | 1645.8 | 1616.6 |
| 82.5° | 832.6 | 684.8 | 758.7 | 877.4 | 869.6 | 1058.3 | 1614.6 | 1604.9 | 1470.7 | 1317.0 | 1270.3 |
| 85° | 385.2 | 410.5 | 601.1 | 723.7 | 667.3 | 784.0 | 1291.7 | 1309.2 | 1145.8 | 962.9 | 962.9 |
| 87.5° | 163.4 | 229.6 | 426.0 | 546.6 | 449.4 | 529.1 | 947.4 | 904.6 | 830.7 | 575.8 | 540.8 |
| 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)