

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: P318830

Luminaire Tested: **GLEON-SA6A-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6A-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20613 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

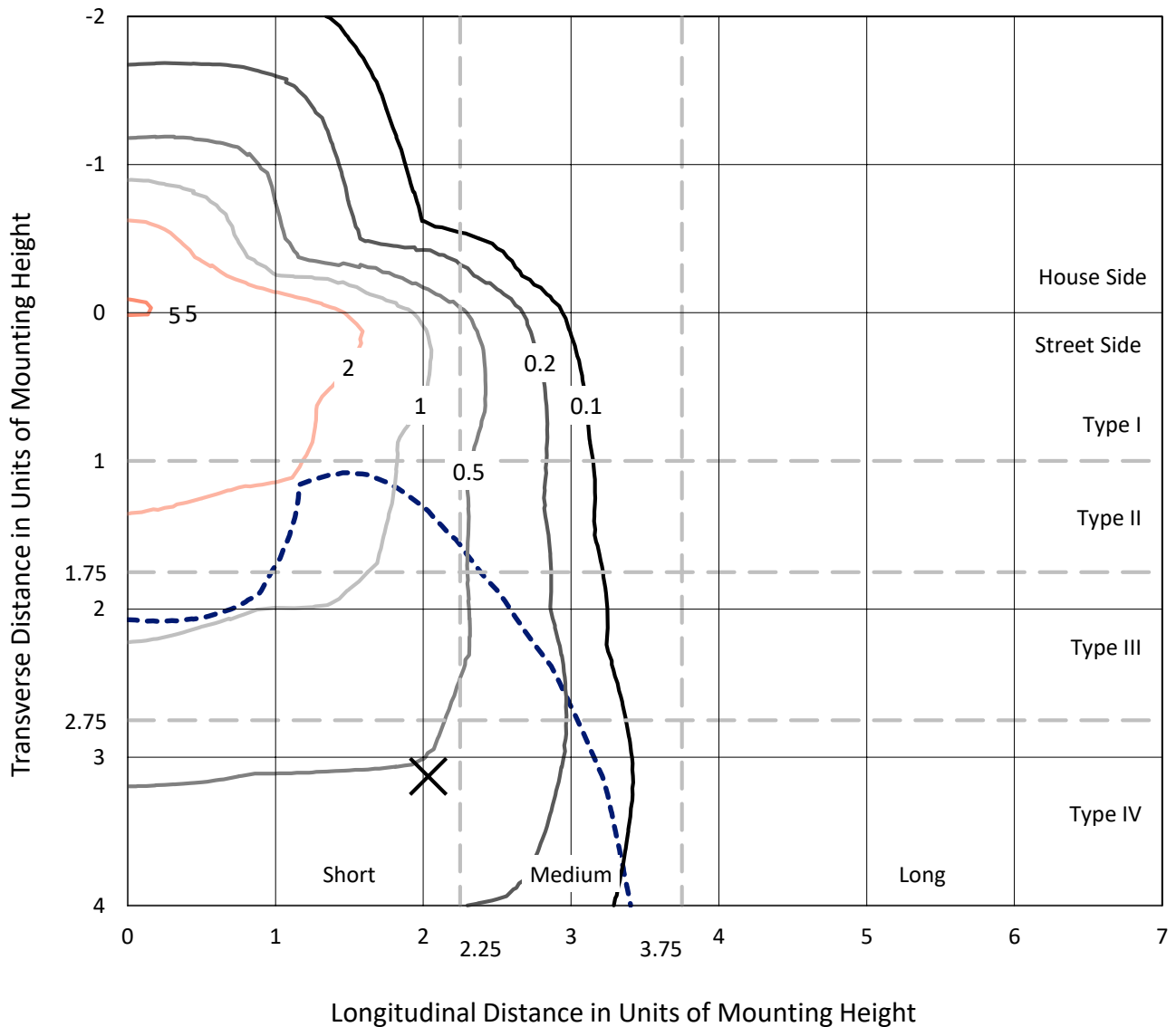
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

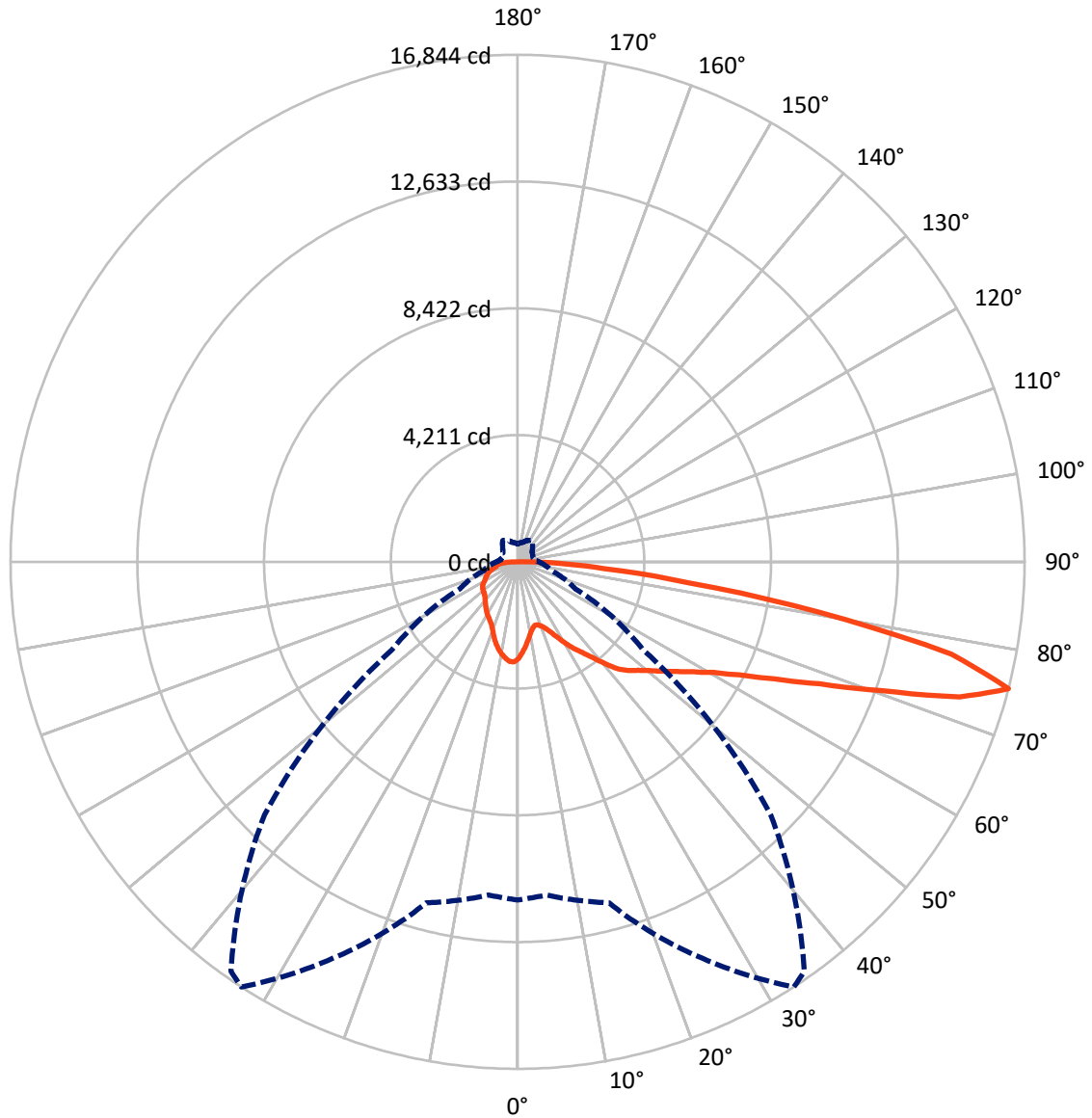
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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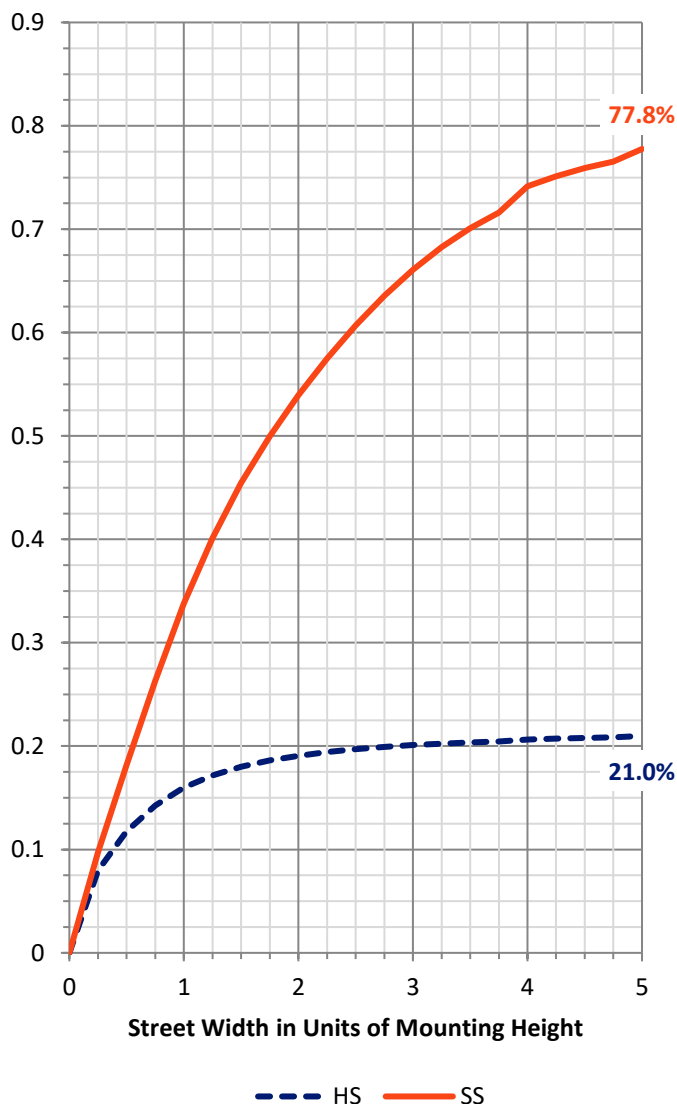
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4426.2 | 0.0 | 4426.2 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| Street Side | Lumens | 16186.9 | 0.0 | 16186.9 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| Total | Lumens | 20613.0 | 0.0 | 20613.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 291.4 | 1.4 |
| 10°-20° | 789.2 | 3.8 |
| 20°-30° | 1288.9 | 6.3 |
| 30°-40° | 1919.4 | 9.3 |
| 40°-50° | 2753.0 | 13.4 |
| 50°-60° | 3779.4 | 18.3 |
| 60°-70° | 4731.6 | 23.0 |
| 70°-80° | 4280.5 | 20.8 |
| 80°-90° | 779.7 | 3.8 |
| 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° | 20613.0 | 100.0 |
| 0°-180° | 20613.0 | 100.0 |

Coefficient of Utilization

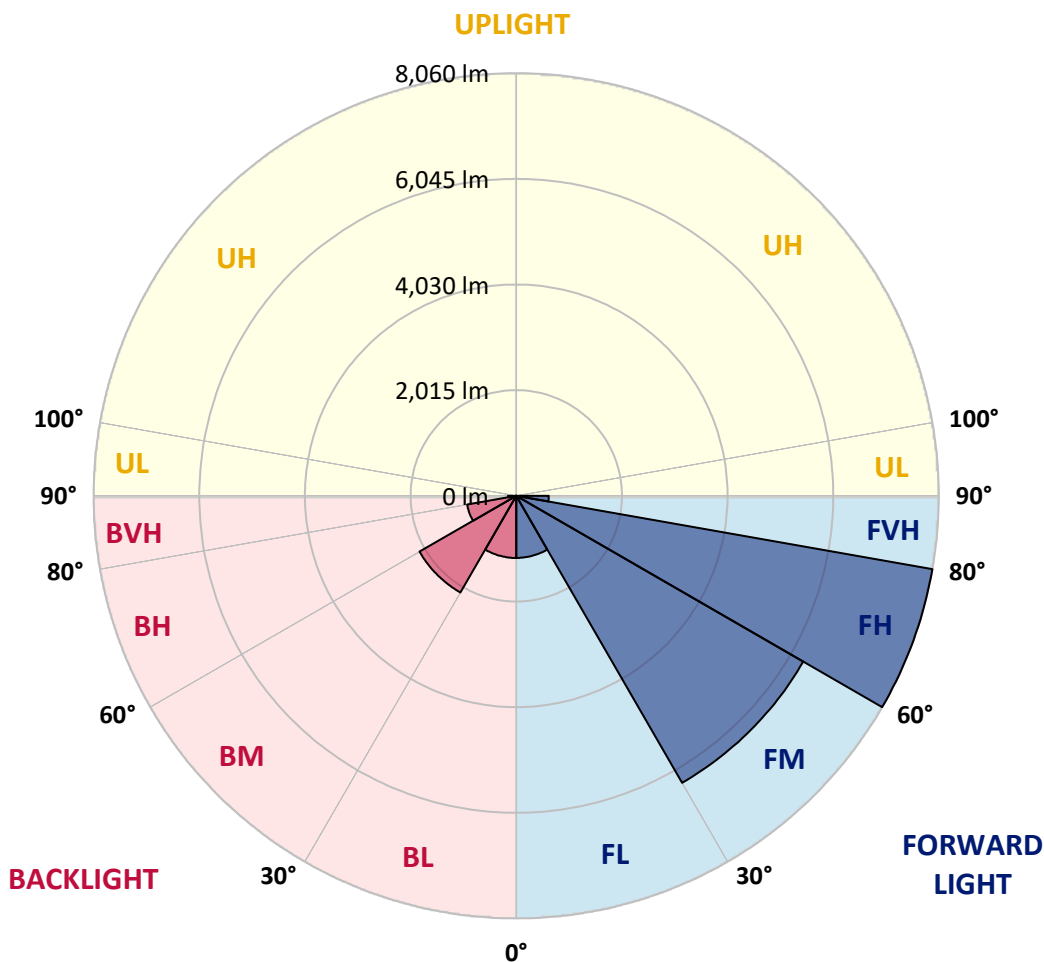


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1183.9 | 5.7 | | | |
| FM (30°-60°) | 6321.6 | 30.7 | | | |
| FH (60°-80°) | 8060.4 | 39.1 | | | G4/12000 |
| FVH (80°-90°) | 621.0 | 3.0 | | | G4/750 |
| BL (0°-30°) | 1185.5 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 2130.2 | 10.3 | B2/2500 | | |
| BH (60°-80°) | 951.7 | 4.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 158.7 | 0.8 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 3221.9 | 3221.9 | 3221.9 | 3221.9 | 3221.9 | 3221.9 | 3221.9 | 3221.9 | 3221.9 | 3221.9 | 3221.9 |
| 2.5° | 2991.9 | 2980.5 | 3001.9 | 3004.8 | 3023.3 | 3030.4 | 3056.0 | 3095.9 | 3128.7 | 3166.4 | 3200.6 |
| 5° | 2720.7 | 2712.8 | 2742.7 | 2764.1 | 2804.7 | 2821.8 | 2882.3 | 2967.0 | 3042.5 | 3127.9 | 3205.6 |
| 7.5° | 2462.9 | 2458.6 | 2492.1 | 2540.5 | 2587.5 | 2611.0 | 2715.7 | 2838.9 | 2964.9 | 3103.0 | 3221.9 |
| 10° | 2245.7 | 2244.3 | 2276.4 | 2324.1 | 2393.1 | 2419.5 | 2554.8 | 2717.1 | 2893.7 | 3083.8 | 3249.7 |
| 12.5° | 2124.0 | 2129.0 | 2143.9 | 2183.8 | 2247.9 | 2274.2 | 2424.5 | 2615.3 | 2833.9 | 3077.4 | 3290.3 |
| 15° | 2153.9 | 2161.7 | 2136.1 | 2134.7 | 2180.2 | 2200.9 | 2341.9 | 2542.7 | 2791.2 | 3088.1 | 3349.4 |
| 17.5° | 2281.3 | 2282.8 | 2215.1 | 2172.4 | 2200.2 | 2210.8 | 2316.2 | 2501.4 | 2766.2 | 3112.3 | 3423.4 |
| 20° | 2460.8 | 2457.2 | 2337.6 | 2266.4 | 2281.3 | 2284.2 | 2352.5 | 2502.1 | 2764.1 | 3154.3 | 3519.6 |
| 22.5° | 2698.6 | 2672.2 | 2511.3 | 2414.5 | 2410.9 | 2406.7 | 2445.8 | 2554.8 | 2795.4 | 3222.6 | 3634.2 |
| 25° | 3009.0 | 2984.1 | 2762.7 | 2630.2 | 2601.8 | 2591.1 | 2596.8 | 2667.3 | 2857.4 | 3296.0 | 3762.4 |
| 27.5° | 3354.4 | 3310.9 | 3097.3 | 2910.1 | 2851.0 | 2836.0 | 2801.8 | 2826.0 | 2925.0 | 3366.5 | 3914.7 |
| 30° | 3643.4 | 3620.0 | 3433.4 | 3211.2 | 3141.5 | 3120.1 | 3030.4 | 3004.0 | 3022.6 | 3462.6 | 4107.0 |
| 32.5° | 3805.1 | 3789.4 | 3676.2 | 3496.8 | 3432.0 | 3402.1 | 3275.3 | 3222.6 | 3179.2 | 3614.3 | 4367.6 |
| 35° | 4000.9 | 3990.9 | 3922.6 | 3792.3 | 3696.1 | 3664.8 | 3566.5 | 3511.7 | 3399.9 | 3822.9 | 4704.4 |
| 37.5° | 4250.1 | 4239.4 | 4240.8 | 4135.5 | 4020.8 | 3991.6 | 3926.8 | 3869.2 | 3686.2 | 4097.0 | 5070.4 |
| 40° | 4532.1 | 4511.4 | 4503.6 | 4498.6 | 4426.0 | 4409.6 | 4375.4 | 4297.1 | 4045.0 | 4424.5 | 5431.4 |
| 42.5° | 4956.4 | 4883.1 | 4726.4 | 4785.5 | 4857.5 | 4848.9 | 4876.7 | 4764.2 | 4443.8 | 4811.9 | 5783.8 |
| 45° | 5365.8 | 5245.5 | 4974.9 | 4987.8 | 5145.1 | 5192.8 | 5400.7 | 5321.0 | 4876.0 | 5236.3 | 6148.4 |
| 47.5° | 5552.4 | 5461.3 | 5231.3 | 5232.0 | 5387.9 | 5486.9 | 5942.6 | 5885.6 | 5330.2 | 5718.3 | 6593.4 |
| 50° | 5761.0 | 5669.9 | 5463.4 | 5541.0 | 5677.0 | 5782.4 | 6465.9 | 6436.7 | 5762.4 | 6245.9 | 7126.7 |
| 52.5° | 5988.9 | 5834.4 | 5703.3 | 5842.2 | 6033.0 | 6155.5 | 6990.0 | 6910.2 | 6159.0 | 6777.1 | 7739.7 |
| 55° | 5991.7 | 5949.7 | 6049.4 | 6151.2 | 6436.7 | 6587.0 | 7539.0 | 7328.2 | 6482.3 | 7299.0 | 8238.9 |
| 57.5° | 6332.8 | 6264.4 | 6475.9 | 6522.9 | 6896.0 | 7065.5 | 8085.1 | 7692.0 | 6811.3 | 7699.2 | 8508.0 |
| 60° | 6784.2 | 6725.8 | 6898.8 | 7022.7 | 7464.2 | 7690.6 | 8668.2 | 8065.9 | 7069.7 | 8001.1 | 8495.2 |
| 62.5° | 7563.9 | 7497.7 | 7495.5 | 7669.3 | 8263.8 | 8527.2 | 9322.6 | 8432.5 | 7172.3 | 8060.9 | 8132.8 |
| 65° | 8705.3 | 8599.9 | 8401.2 | 8483.8 | 9368.2 | 9630.9 | 10053.8 | 8698.1 | 7037.0 | 7740.5 | 7199.3 |
| 67.5° | 9816.0 | 9812.5 | 9568.2 | 9737.7 | 10826.4 | 11037.1 | 10886.9 | 8724.5 | 6614.7 | 6624.7 | 5543.1 |
| 70° | 10923.2 | 10937.5 | 10896.2 | 11485.7 | 12796.6 | 13015.9 | 11774.1 | 8370.6 | 5665.6 | 4784.1 | 3320.9 |
| 72.5° | 11800.4 | 11796.9 | 12004.8 | 13525.0 | 15353.5 | 15304.3 | 12521.7 | 7298.3 | 4067.8 | 2582.5 | 1587.1 |
| 75° | 11232.2 | 11108.4 | 11727.8 | 14534.6 | 16843.7 | 16603.8 | 11885.9 | 5091.0 | 2111.2 | 1175.6 | 854.4 |
| 77.5° | 7326.1 | 7443.5 | 8352.8 | 12006.9 | 14733.3 | 14441.4 | 8720.2 | 2375.3 | 994.7 | 771.1 | 619.5 |
| 80° | 2653.0 | 2776.9 | 3911.2 | 6801.3 | 10150.7 | 10103.0 | 4294.2 | 976.2 | 672.9 | 582.4 | 451.4 |
| 82.5° | 912.8 | 958.4 | 1543.0 | 3020.4 | 5731.1 | 5944.7 | 1615.6 | 554.7 | 489.2 | 413.0 | 309.0 |
| 85° | 358.2 | 410.1 | 705.6 | 1453.2 | 2890.8 | 2912.2 | 654.4 | 331.8 | 340.3 | 270.6 | 169.5 |
| 87.5° | 136.0 | 165.2 | 337.5 | 675.0 | 1320.1 | 1212.6 | 234.3 | 158.1 | 193.7 | 160.9 | 80.5 |
| 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° | 3221.9 | 3221.9 | 3221.9 | 3221.9 | 3221.9 | 3221.9 | 3221.9 | 3221.9 | 3221.9 | 3221.9 | 3221.9 |
| 2.5° | 3226.9 | 3241.9 | 3273.2 | 3294.6 | 3317.3 | 3323.7 | 3326.6 | 3332.3 | 3338.0 | 3335.9 | 3336.6 |
| 5° | 3246.8 | 3276.0 | 3326.6 | 3348.0 | 3357.9 | 3346.5 | 3324.5 | 3306.7 | 3293.8 | 3286.7 | 3284.6 |
| 7.5° | 3279.6 | 3320.9 | 3375.0 | 3371.5 | 3348.7 | 3298.1 | 3241.2 | 3198.4 | 3162.8 | 3150.0 | 3142.9 |
| 10° | 3323.0 | 3371.5 | 3409.2 | 3368.6 | 3302.4 | 3214.8 | 3129.4 | 3063.1 | 3009.7 | 2989.1 | 2985.5 |
| 12.5° | 3378.6 | 3427.7 | 3434.8 | 3348.7 | 3239.0 | 3119.4 | 3003.3 | 2915.8 | 2836.0 | 2810.4 | 2804.7 |
| 15° | 3450.5 | 3496.8 | 3452.6 | 3313.8 | 3160.7 | 2999.8 | 2849.5 | 2730.6 | 2646.6 | 2615.3 | 2603.9 |
| 17.5° | 3526.0 | 3570.1 | 3456.2 | 3256.1 | 3058.2 | 2858.1 | 2669.4 | 2547.6 | 2451.5 | 2415.2 | 2410.9 |
| 20° | 3616.4 | 3636.3 | 3441.2 | 3173.5 | 2917.2 | 2674.4 | 2475.7 | 2361.1 | 2309.8 | 2284.2 | 2281.3 |
| 22.5° | 3728.2 | 3706.8 | 3407.1 | 3061.7 | 2738.5 | 2462.2 | 2300.6 | 2247.2 | 2234.3 | 2228.6 | 2230.8 |
| 25° | 3846.4 | 3780.9 | 3356.5 | 2915.8 | 2512.7 | 2250.0 | 2172.4 | 2187.4 | 2204.4 | 2202.3 | 2202.3 |
| 27.5° | 3976.7 | 3856.3 | 3278.9 | 2722.1 | 2262.8 | 2076.3 | 2085.5 | 2140.4 | 2166.0 | 2165.3 | 2164.6 |
| 30° | 4144.0 | 3941.8 | 3179.9 | 2489.3 | 2029.3 | 1953.8 | 2010.1 | 2077.0 | 2111.9 | 2110.5 | 2111.2 |
| 32.5° | 4349.8 | 4035.8 | 3045.3 | 2229.4 | 1860.5 | 1863.4 | 1928.2 | 1994.4 | 2035.0 | 2031.4 | 2032.1 |
| 35° | 4590.4 | 4141.2 | 2863.1 | 1973.0 | 1748.7 | 1791.5 | 1842.7 | 1889.0 | 1927.5 | 1922.5 | 1917.5 |
| 37.5° | 4852.5 | 4244.4 | 2621.0 | 1743.8 | 1657.6 | 1724.5 | 1767.3 | 1775.1 | 1792.9 | 1780.1 | 1770.8 |
| 40° | 5101.7 | 4323.4 | 2309.1 | 1555.8 | 1565.7 | 1667.6 | 1695.3 | 1664.0 | 1632.0 | 1627.7 | 1614.9 |
| 42.5° | 5318.9 | 4349.8 | 1993.7 | 1405.5 | 1468.9 | 1607.8 | 1624.8 | 1559.3 | 1501.7 | 1474.6 | 1463.2 |
| 45° | 5548.1 | 4359.0 | 1699.6 | 1279.5 | 1375.6 | 1554.4 | 1572.9 | 1485.3 | 1404.1 | 1345.7 | 1326.5 |
| 47.5° | 5847.9 | 4426.0 | 1471.1 | 1186.2 | 1304.4 | 1518.8 | 1545.1 | 1426.2 | 1320.8 | 1237.5 | 1219.7 |
| 50° | 6240.2 | 4558.4 | 1285.2 | 1115.0 | 1258.2 | 1495.3 | 1525.2 | 1368.5 | 1252.5 | 1152.1 | 1134.3 |
| 52.5° | 6676.0 | 4680.2 | 1135.0 | 1057.4 | 1213.3 | 1454.0 | 1499.5 | 1327.2 | 1188.4 | 1073.0 | 1053.8 |
| 55° | 6980.7 | 4586.9 | 1013.9 | 997.6 | 1154.9 | 1394.9 | 1463.9 | 1292.3 | 1096.5 | 996.1 | 979.0 |
| 57.5° | 7039.1 | 4267.9 | 922.1 | 935.6 | 1084.4 | 1320.8 | 1409.1 | 1214.7 | 1046.7 | 962.7 | 944.9 |
| 60° | 6879.6 | 3823.6 | 853.7 | 878.6 | 1008.9 | 1227.5 | 1306.6 | 1159.9 | 999.0 | 927.1 | 912.1 |
| 62.5° | 6478.7 | 3368.6 | 803.2 | 827.4 | 938.5 | 1132.8 | 1242.5 | 1102.2 | 950.6 | 886.5 | 871.5 |
| 65° | 5669.2 | 2828.2 | 754.7 | 781.8 | 872.9 | 1051.0 | 1184.8 | 1048.8 | 902.9 | 853.7 | 839.5 |
| 67.5° | 4279.3 | 2118.3 | 709.2 | 733.4 | 814.6 | 979.8 | 1122.2 | 996.1 | 856.6 | 825.2 | 808.2 |
| 70° | 2519.9 | 1326.5 | 657.2 | 682.8 | 753.3 | 905.7 | 1055.2 | 938.5 | 798.9 | 784.7 | 762.6 |
| 72.5° | 1172.7 | 798.2 | 598.1 | 623.0 | 676.4 | 806.7 | 969.1 | 863.0 | 730.5 | 699.2 | 669.3 |
| 75° | 699.9 | 583.9 | 528.3 | 550.4 | 588.1 | 701.3 | 860.8 | 786.1 | 665.7 | 624.4 | 593.1 |
| 77.5° | 523.3 | 446.4 | 451.4 | 474.9 | 505.5 | 613.8 | 762.6 | 725.6 | 615.9 | 583.9 | 562.5 |
| 80° | 376.7 | 338.9 | 368.1 | 393.8 | 425.8 | 558.2 | 730.5 | 670.7 | 556.8 | 514.1 | 494.1 |
| 82.5° | 251.3 | 243.5 | 277.0 | 303.3 | 334.7 | 488.5 | 686.4 | 587.4 | 475.6 | 421.5 | 377.4 |
| 85° | 138.8 | 146.7 | 186.6 | 197.9 | 225.0 | 343.9 | 562.5 | 472.1 | 358.2 | 288.4 | 275.6 |
| 87.5° | 57.7 | 67.6 | 100.4 | 96.8 | 119.6 | 205.1 | 370.3 | 284.8 | 227.8 | 170.2 | 132.4 |
| 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)