

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P634431

Luminaire Tested: GWS-SA3B-760-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3B-760-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9200.4 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 68.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

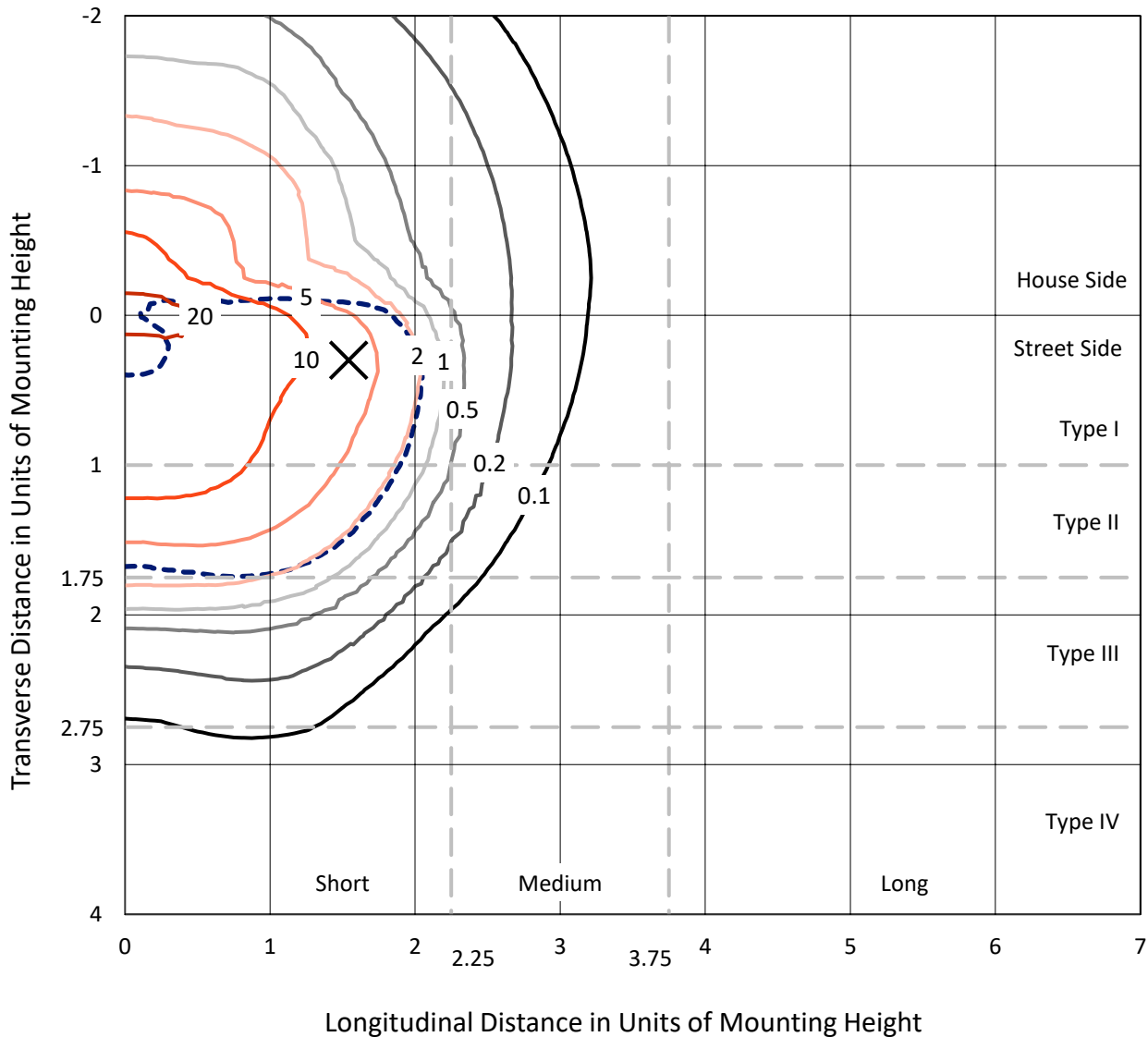


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Iso-Footcandle Lines of Horizontal Illumination

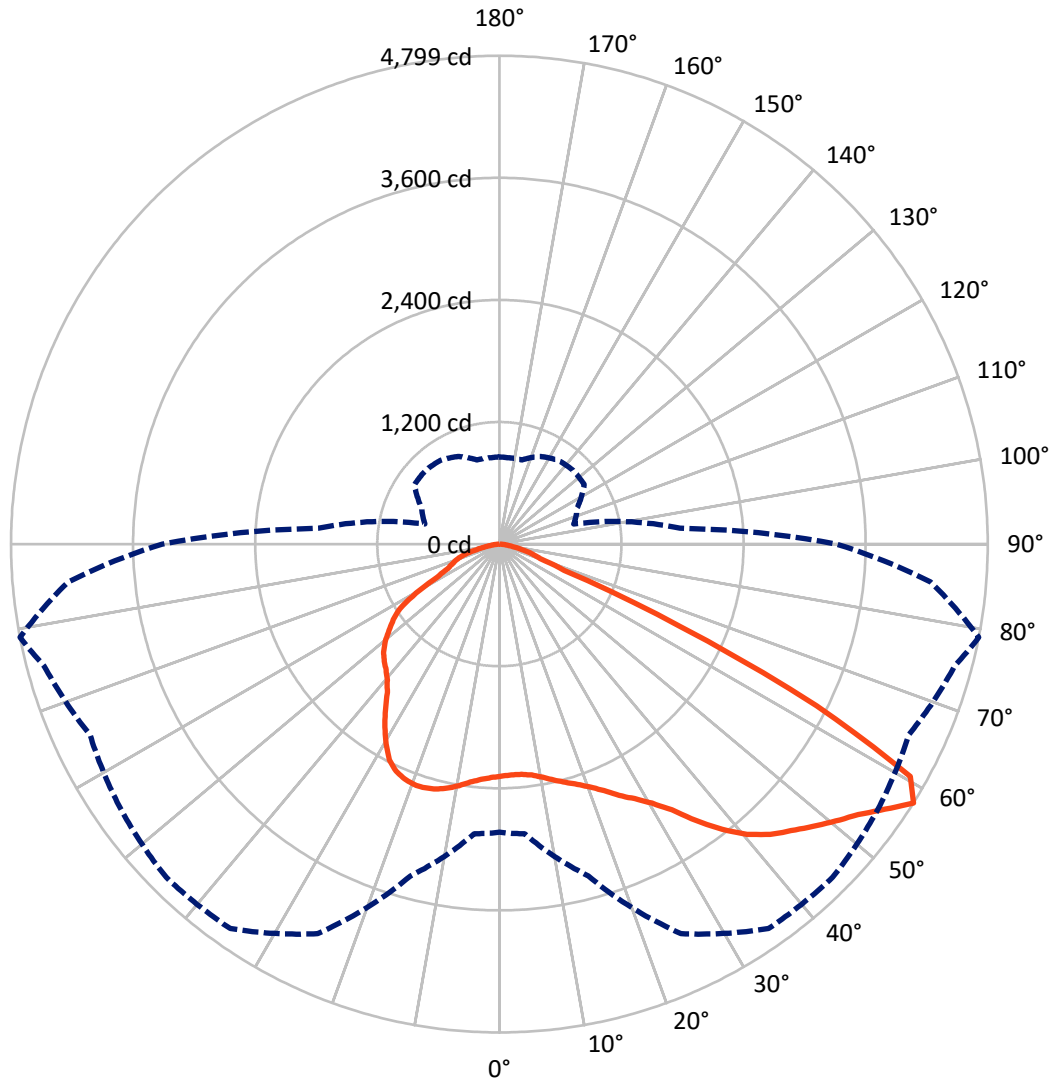
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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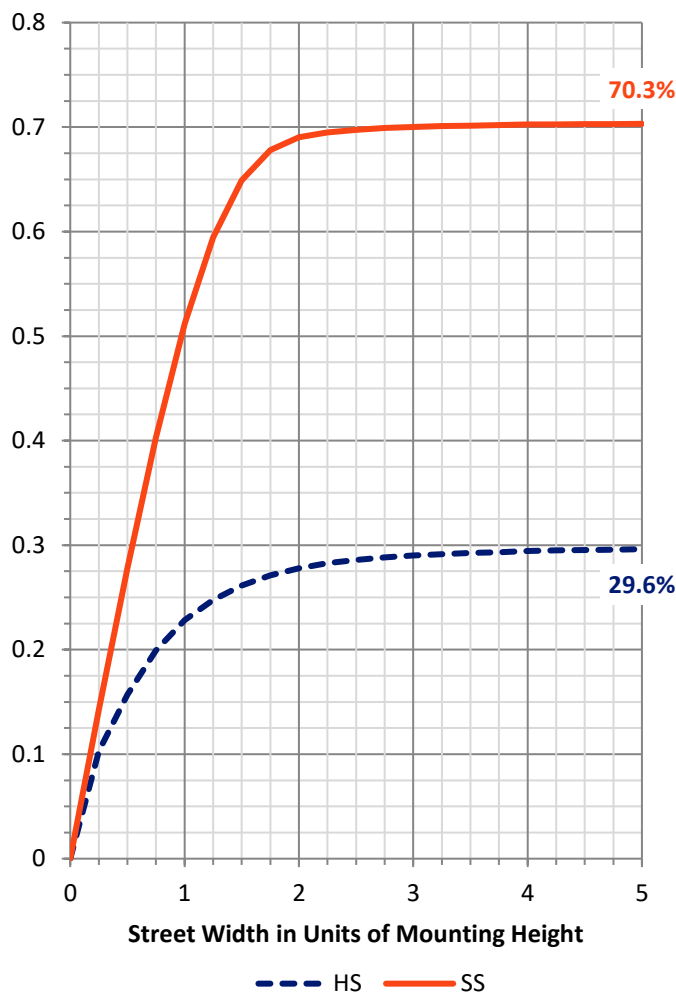
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2734.8 | 0.0 | 2734.8 |
| | % Fixture | 29.7 | 0.0 | 29.7 |
| Street Side | Lumens | 6465.5 | 0.0 | 6465.5 |
| | % Fixture | 70.3 | 0.0 | 70.3 |
| Total | Lumens | 9200.4 | 0.0 | 9200.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 211.2 | 2.3 |
| 10°-20° | 586.8 | 6.4 |
| 20°-30° | 994.6 | 10.8 |
| 30°-40° | 1522.4 | 16.5 |
| 40°-50° | 2030.0 | 22.1 |
| 50°-60° | 2344.5 | 25.5 |
| 60°-70° | 1218.3 | 13.2 |
| 70°-80° | 259.0 | 2.8 |
| 80°-90° | 33.5 | 0.4 |
| 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° | 9200.4 | 100.0 |
| 0°-180° | 9200.4 | 100.0 |

Coefficient of Utilization



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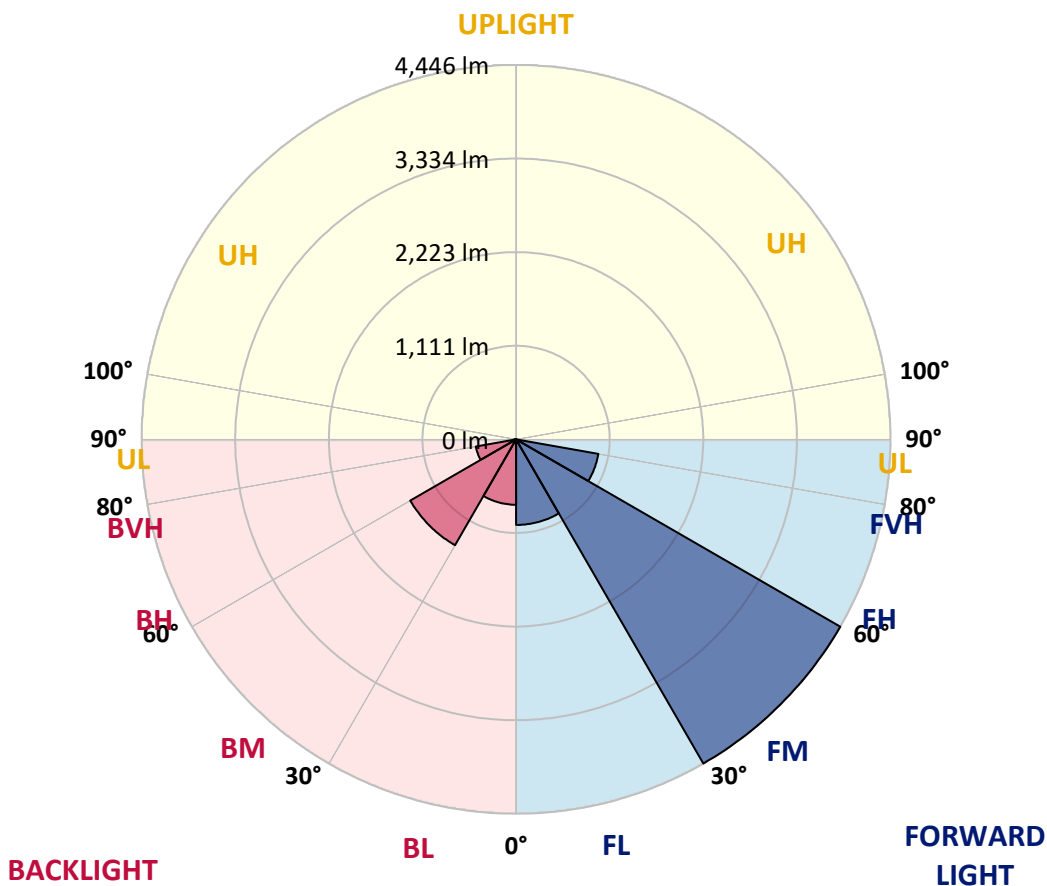
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1015.9 | 11.0 | | | |
| FM (30°-60°) | 4445.9 | 48.3 | | | |
| FH (60°-80°) | 992.0 | 10.8 | | | G1/1800 |
| FVH (80°-90°) | 11.7 | 0.1 | | | G1/100 |
| BL (0°-30°) | 776.7 | 8.4 | B2/1000 | | |
| BM (30°-60°) | 1451.1 | 15.8 | B2/2500 | | |
| BH (60°-80°) | 485.2 | 5.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 21.8 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 |
| 2.5° | 2176.3 | 2171.7 | 2173.3 | 2179.3 | 2201.8 | 2218.4 | 2235.7 | 2251.5 | 2266.5 | 2271.0 | 2274.8 |
| 5° | 2098.8 | 2090.5 | 2092.8 | 2102.5 | 2128.9 | 2156.7 | 2187.5 | 2225.2 | 2261.3 | 2273.3 | 2289.1 |
| 7.5° | 2043.9 | 2042.4 | 2046.1 | 2061.2 | 2089.0 | 2115.3 | 2155.2 | 2208.6 | 2271.0 | 2291.4 | 2319.2 |
| 10° | 1970.9 | 1967.9 | 1982.9 | 2013.8 | 2059.7 | 2101.8 | 2149.2 | 2212.4 | 2299.6 | 2329.7 | 2372.6 |
| 12.5° | 1913.0 | 1911.5 | 1927.3 | 1970.1 | 2028.8 | 2095.8 | 2161.2 | 2231.9 | 2338.0 | 2379.4 | 2432.0 |
| 15° | 1946.8 | 1940.1 | 1940.8 | 1970.9 | 2023.6 | 2102.5 | 2191.3 | 2267.3 | 2376.4 | 2429.0 | 2496.7 |
| 17.5° | 2045.4 | 2033.3 | 2024.3 | 2029.6 | 2059.7 | 2141.7 | 2237.2 | 2314.7 | 2420.7 | 2482.4 | 2565.2 |
| 20° | 2181.5 | 2174.8 | 2149.9 | 2133.4 | 2140.2 | 2212.4 | 2309.4 | 2381.6 | 2478.7 | 2547.9 | 2636.6 |
| 22.5° | 2364.3 | 2347.8 | 2313.9 | 2287.6 | 2267.3 | 2323.7 | 2413.2 | 2475.7 | 2559.2 | 2631.4 | 2723.9 |
| 25° | 2590.8 | 2566.7 | 2513.3 | 2471.9 | 2428.3 | 2486.2 | 2565.9 | 2613.3 | 2669.7 | 2736.7 | 2824.7 |
| 27.5° | 2821.7 | 2801.4 | 2742.0 | 2686.3 | 2632.1 | 2668.2 | 2763.0 | 2790.1 | 2784.1 | 2833.0 | 2908.2 |
| 30° | 3067.7 | 3042.1 | 2985.7 | 2925.5 | 2855.5 | 2878.9 | 2963.9 | 2977.4 | 2913.5 | 2954.1 | 3005.2 |
| 32.5° | 3327.2 | 3302.4 | 3253.5 | 3183.5 | 3104.5 | 3113.6 | 3136.9 | 3149.7 | 3088.7 | 3112.1 | 3151.2 |
| 35° | 3591.2 | 3567.9 | 3518.3 | 3449.1 | 3391.1 | 3336.2 | 3277.6 | 3328.7 | 3293.4 | 3338.5 | 3335.5 |
| 37.5° | 3832.7 | 3809.4 | 3778.6 | 3725.1 | 3625.8 | 3517.5 | 3382.1 | 3445.3 | 3500.2 | 3557.4 | 3547.6 |
| 40° | 3996.0 | 3980.2 | 3987.7 | 3979.4 | 3851.5 | 3637.1 | 3433.3 | 3502.5 | 3652.2 | 3750.0 | 3744.7 |
| 42.5° | 4136.6 | 4120.8 | 4164.5 | 4196.1 | 4045.6 | 3747.7 | 3458.1 | 3524.3 | 3749.2 | 3901.9 | 3894.4 |
| 45° | 4199.1 | 4194.5 | 4266.8 | 4366.8 | 4223.1 | 3865.1 | 3522.0 | 3569.4 | 3822.9 | 4018.5 | 3989.9 |
| 47.5° | 4124.6 | 4140.4 | 4282.6 | 4451.8 | 4370.6 | 4004.2 | 3652.9 | 3665.0 | 3919.2 | 4144.9 | 4064.4 |
| 50° | 3976.4 | 4011.0 | 4202.8 | 4454.1 | 4478.1 | 4161.5 | 3834.2 | 3804.1 | 4048.6 | 4279.6 | 4103.5 |
| 52.5° | 3760.5 | 3796.6 | 4109.5 | 4436.8 | 4539.8 | 4343.5 | 4075.7 | 4032.8 | 4211.9 | 4414.2 | 4110.3 |
| 55° | 3264.8 | 3313.7 | 3895.9 | 4397.7 | 4600.0 | 4509.0 | 4348.0 | 4260.7 | 4422.5 | 4599.3 | 4177.2 |
| 57.5° | 2832.2 | 2857.8 | 3375.3 | 4223.9 | 4612.0 | 4630.9 | 4542.1 | 4438.3 | 4631.6 | 4799.4 | 4252.5 |
| 60° | 2078.5 | 2084.5 | 2550.1 | 3495.0 | 4242.7 | 4560.1 | 4526.3 | 4372.1 | 4532.3 | 4639.1 | 3907.9 |
| 62.5° | 1174.3 | 1175.0 | 1546.6 | 2332.7 | 3169.2 | 3716.9 | 3737.9 | 3601.8 | 3467.1 | 3498.7 | 2720.1 |
| 65° | 440.8 | 482.2 | 706.4 | 1146.4 | 1827.2 | 2194.3 | 2281.6 | 2313.2 | 2089.0 | 1949.8 | 1458.6 |
| 67.5° | 294.9 | 304.7 | 412.2 | 589.8 | 813.2 | 938.8 | 1050.1 | 1053.2 | 770.3 | 686.8 | 574.7 |
| 70° | 224.9 | 234.7 | 324.2 | 422.0 | 412.2 | 380.6 | 411.5 | 400.2 | 413.7 | 425.0 | 437.1 |
| 72.5° | 167.8 | 177.5 | 251.3 | 297.9 | 247.5 | 243.7 | 276.1 | 306.9 | 335.5 | 347.5 | 366.3 |
| 75° | 111.3 | 118.9 | 169.3 | 159.5 | 136.9 | 161.7 | 201.6 | 232.4 | 249.0 | 263.3 | 277.6 |
| 77.5° | 70.7 | 76.0 | 90.3 | 73.0 | 76.0 | 94.8 | 117.4 | 145.2 | 161.0 | 175.3 | 182.8 |
| 80° | 32.3 | 31.6 | 30.8 | 34.6 | 42.9 | 55.7 | 70.7 | 87.3 | 99.3 | 105.3 | 109.8 |
| 82.5° | 12.8 | 14.3 | 15.8 | 18.8 | 23.3 | 30.1 | 39.9 | 51.2 | 60.9 | 62.4 | 66.2 |
| 85° | 5.3 | 6.0 | 6.8 | 8.3 | 10.5 | 13.5 | 16.5 | 23.3 | 29.3 | 31.6 | 33.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 1.5 | 2.3 | 3.8 | 6.8 | 7.5 | 8.3 |
| 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° | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 | 2280.1 |
| 2.5° | 2295.1 | 2285.3 | 2301.9 | 2313.2 | 2323.7 | 2312.4 | 2308.7 | 2298.9 | 2297.4 | 2297.4 | 2302.6 |
| 5° | 2316.2 | 2309.4 | 2326.7 | 2333.5 | 2332.7 | 2307.9 | 2292.9 | 2273.3 | 2263.5 | 2263.5 | 2265.0 |
| 7.5° | 2353.8 | 2350.0 | 2359.8 | 2349.3 | 2325.2 | 2274.8 | 2225.2 | 2183.8 | 2156.0 | 2141.7 | 2146.2 |
| 10° | 2416.2 | 2411.7 | 2403.4 | 2364.3 | 2295.1 | 2190.6 | 2089.0 | 2013.8 | 1968.6 | 1943.1 | 1944.6 |
| 12.5° | 2477.2 | 2469.6 | 2440.3 | 2353.8 | 2211.6 | 2045.4 | 1912.2 | 1828.0 | 1778.3 | 1748.2 | 1741.5 |
| 15° | 2544.1 | 2524.6 | 2461.4 | 2299.6 | 2075.5 | 1867.8 | 1728.7 | 1637.6 | 1584.2 | 1566.2 | 1565.4 |
| 17.5° | 2608.1 | 2573.4 | 2459.1 | 2203.3 | 1912.2 | 1682.0 | 1542.1 | 1485.7 | 1476.7 | 1484.9 | 1487.2 |
| 20° | 2672.7 | 2617.1 | 2434.3 | 2070.2 | 1718.1 | 1497.0 | 1424.8 | 1448.1 | 1481.9 | 1504.5 | 1509.8 |
| 22.5° | 2739.7 | 2653.2 | 2377.9 | 1898.7 | 1513.5 | 1372.1 | 1402.2 | 1453.3 | 1495.5 | 1525.6 | 1528.6 |
| 25° | 2814.9 | 2687.0 | 2293.6 | 1688.8 | 1349.5 | 1337.5 | 1396.9 | 1451.1 | 1496.2 | 1530.8 | 1536.8 |
| 27.5° | 2857.8 | 2687.8 | 2175.5 | 1472.9 | 1274.3 | 1324.0 | 1384.1 | 1435.3 | 1480.4 | 1518.0 | 1524.8 |
| 30° | 2899.9 | 2667.5 | 1988.2 | 1297.6 | 1252.5 | 1308.2 | 1362.3 | 1409.7 | 1452.6 | 1489.5 | 1497.7 |
| 32.5° | 2959.4 | 2648.7 | 1772.3 | 1196.8 | 1239.7 | 1293.1 | 1337.5 | 1379.6 | 1412.7 | 1429.3 | 1433.8 |
| 35° | 3033.1 | 2624.6 | 1542.9 | 1153.2 | 1231.4 | 1281.1 | 1320.2 | 1342.8 | 1299.9 | 1290.9 | 1300.6 |
| 37.5° | 3136.1 | 2602.0 | 1314.2 | 1134.4 | 1226.2 | 1276.6 | 1311.2 | 1253.2 | 1200.6 | 1179.5 | 1187.1 |
| 40° | 3247.5 | 2589.2 | 1159.2 | 1119.3 | 1228.4 | 1281.1 | 1273.6 | 1187.8 | 1111.8 | 1067.4 | 1065.9 |
| 42.5° | 3342.2 | 2569.7 | 1059.9 | 1109.6 | 1234.4 | 1298.4 | 1222.4 | 1129.9 | 1017.0 | 990.7 | 991.5 |
| 45° | 3406.2 | 2520.0 | 1007.3 | 1099.0 | 1239.7 | 1302.1 | 1198.3 | 1050.1 | 969.7 | 953.1 | 952.3 |
| 47.5° | 3432.5 | 2429.8 | 973.4 | 1082.5 | 1239.0 | 1271.3 | 1149.4 | 1017.0 | 936.6 | 932.0 | 935.0 |
| 50° | 3415.2 | 2281.6 | 938.8 | 1050.1 | 1220.9 | 1239.0 | 1093.0 | 987.7 | 914.0 | 938.8 | 956.9 |
| 52.5° | 3351.3 | 2089.8 | 897.4 | 1005.8 | 1188.6 | 1202.1 | 1064.4 | 969.7 | 897.4 | 930.5 | 944.8 |
| 55° | 3334.7 | 1934.0 | 844.8 | 947.8 | 1140.4 | 1136.7 | 1034.3 | 960.6 | 886.2 | 873.4 | 875.6 |
| 57.5° | 3312.9 | 1782.1 | 757.5 | 844.0 | 1018.5 | 1024.6 | 1005.8 | 950.1 | 856.8 | 853.1 | 856.8 |
| 60° | 2878.1 | 1366.1 | 675.5 | 728.2 | 836.5 | 868.8 | 973.4 | 930.5 | 809.4 | 793.6 | 792.9 |
| 62.5° | 1879.9 | 827.5 | 601.0 | 634.9 | 681.5 | 719.2 | 887.7 | 874.1 | 757.5 | 747.7 | 754.5 |
| 65° | 1011.0 | 589.8 | 546.9 | 567.2 | 592.8 | 621.4 | 735.7 | 778.6 | 684.5 | 649.9 | 650.7 |
| 67.5° | 516.8 | 501.8 | 506.3 | 520.6 | 540.1 | 554.4 | 593.5 | 631.1 | 583.7 | 554.4 | 553.7 |
| 70° | 442.3 | 454.4 | 461.1 | 469.4 | 482.2 | 479.9 | 483.7 | 490.5 | 486.7 | 472.4 | 471.7 |
| 72.5° | 376.9 | 395.7 | 397.2 | 398.7 | 403.2 | 392.7 | 385.9 | 374.6 | 375.4 | 377.6 | 378.4 |
| 75° | 286.6 | 304.7 | 309.2 | 306.9 | 311.4 | 297.9 | 288.9 | 277.6 | 264.0 | 261.8 | 263.3 |
| 77.5° | 186.6 | 200.9 | 207.6 | 206.1 | 208.4 | 197.8 | 193.3 | 181.3 | 165.5 | 159.5 | 159.5 |
| 80° | 112.8 | 121.1 | 126.4 | 127.9 | 130.1 | 122.6 | 115.1 | 104.6 | 97.8 | 91.0 | 91.0 |
| 82.5° | 68.5 | 73.7 | 77.5 | 77.5 | 79.7 | 71.5 | 65.4 | 57.9 | 54.9 | 48.9 | 48.9 |
| 85° | 34.6 | 38.4 | 39.9 | 39.1 | 37.6 | 30.8 | 28.6 | 24.8 | 23.3 | 20.3 | 20.3 |
| 87.5° | 8.3 | 10.5 | 10.5 | 7.5 | 7.5 | 3.8 | 2.3 | 0.8 | 0.0 | 0.0 | 0.0 |
| 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)