

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: P636882

Luminaire Tested: GWS-SA4B-760-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-760-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11506 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

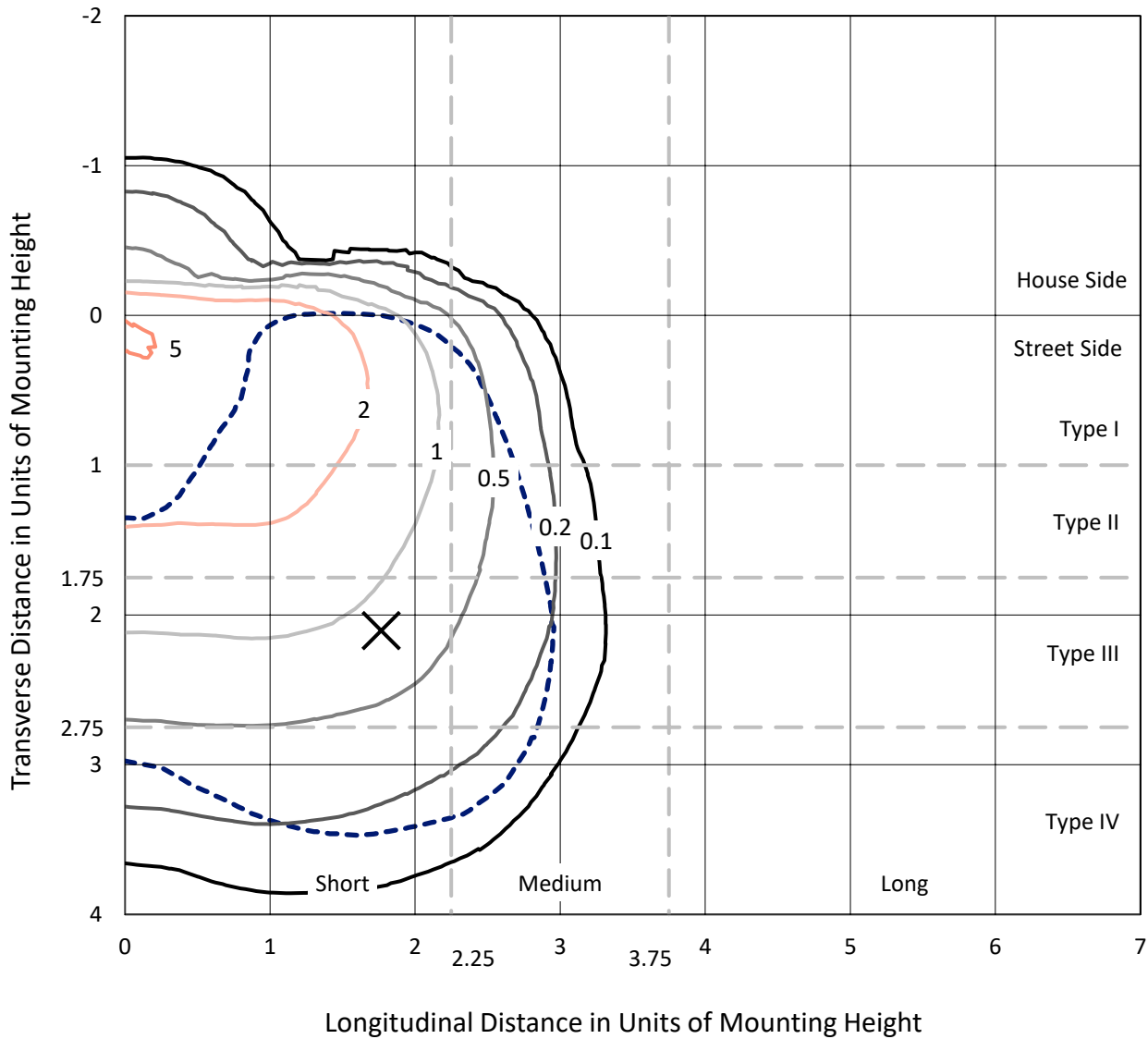
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

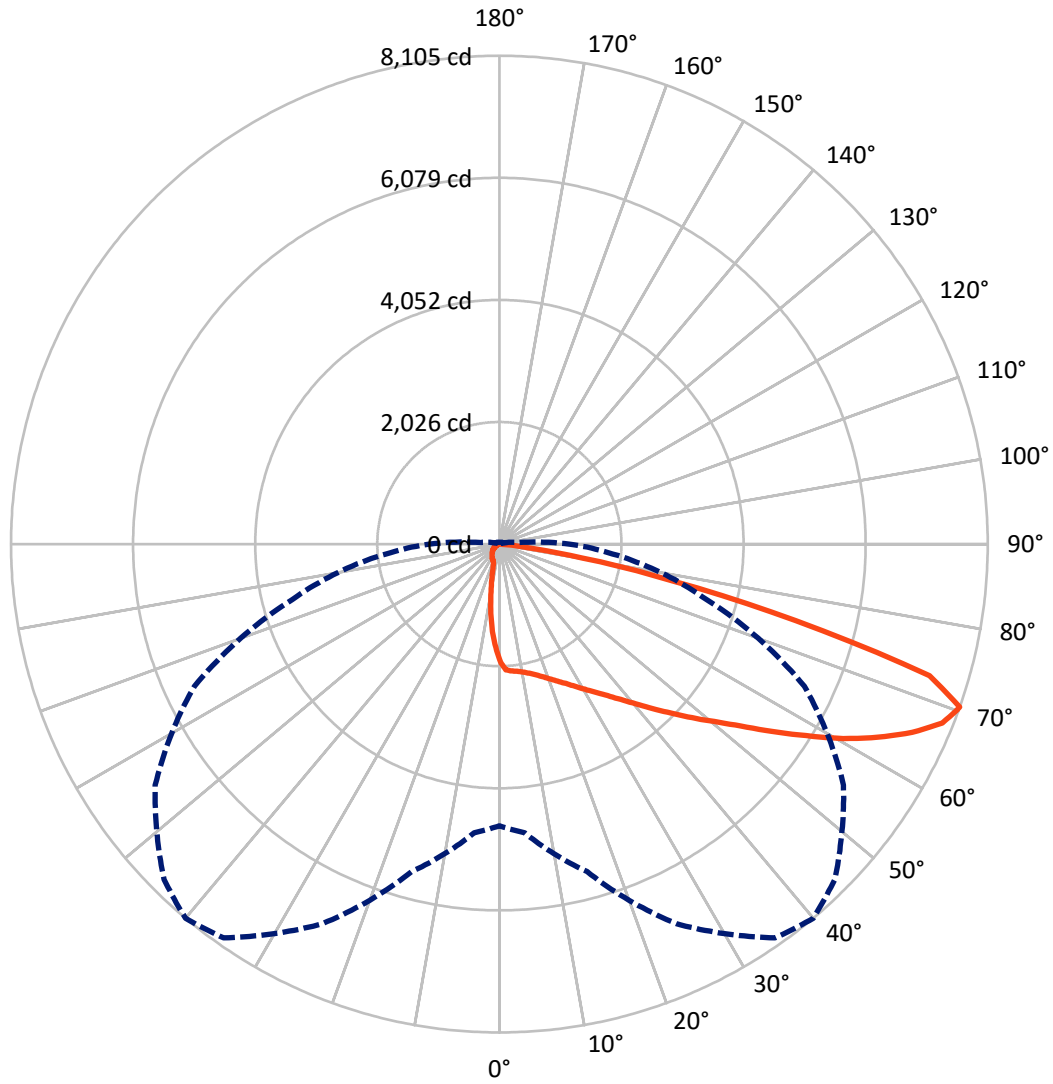
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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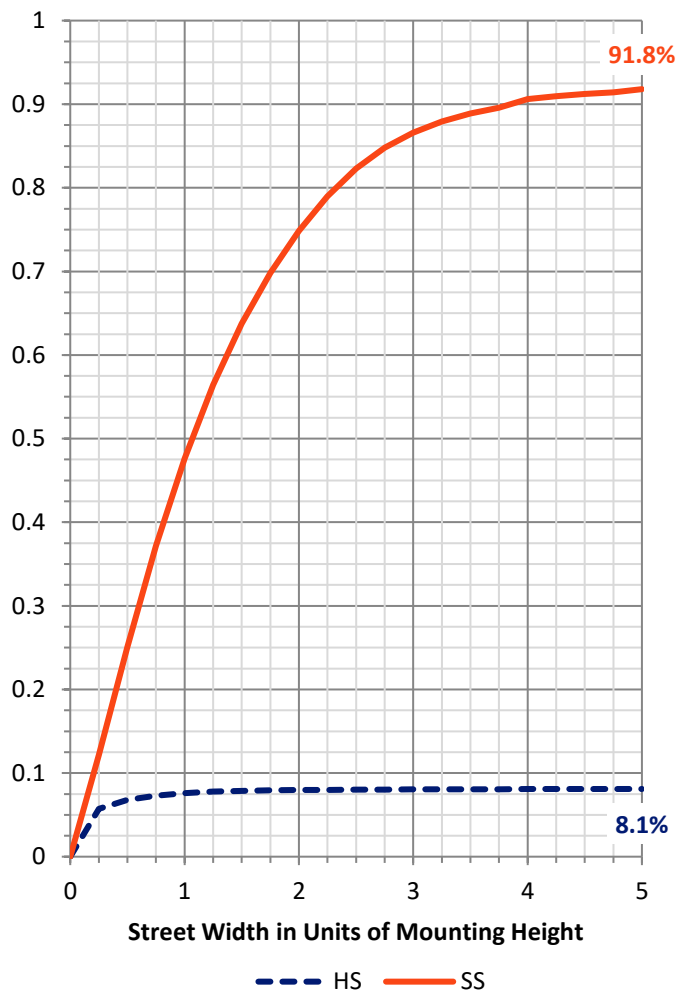
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 940.9 | 0.0 | 940.9 |
| | % Fixture | 8.2 | 0.0 | 8.2 |
| Street Side | Lumens | 10565.1 | 0.0 | 10565.1 |
| | % Fixture | 91.8 | 0.0 | 91.8 |
| Total | Lumens | 11506.0 | 0.0 | 11506.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 165.0 | 1.4 |
| 10°-20° | 418.5 | 3.6 |
| 20°-30° | 700.5 | 6.1 |
| 30°-40° | 1100.2 | 9.6 |
| 40°-50° | 1740.2 | 15.1 |
| 50°-60° | 2538.6 | 22.1 |
| 60°-70° | 3146.9 | 27.4 |
| 70°-80° | 1592.2 | 13.8 |
| 80°-90° | 103.9 | 0.9 |
| 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° | 11506.0 | 100.0 |
| 0°-180° | 11506.0 | 100.0 |

Coefficient of Utilization



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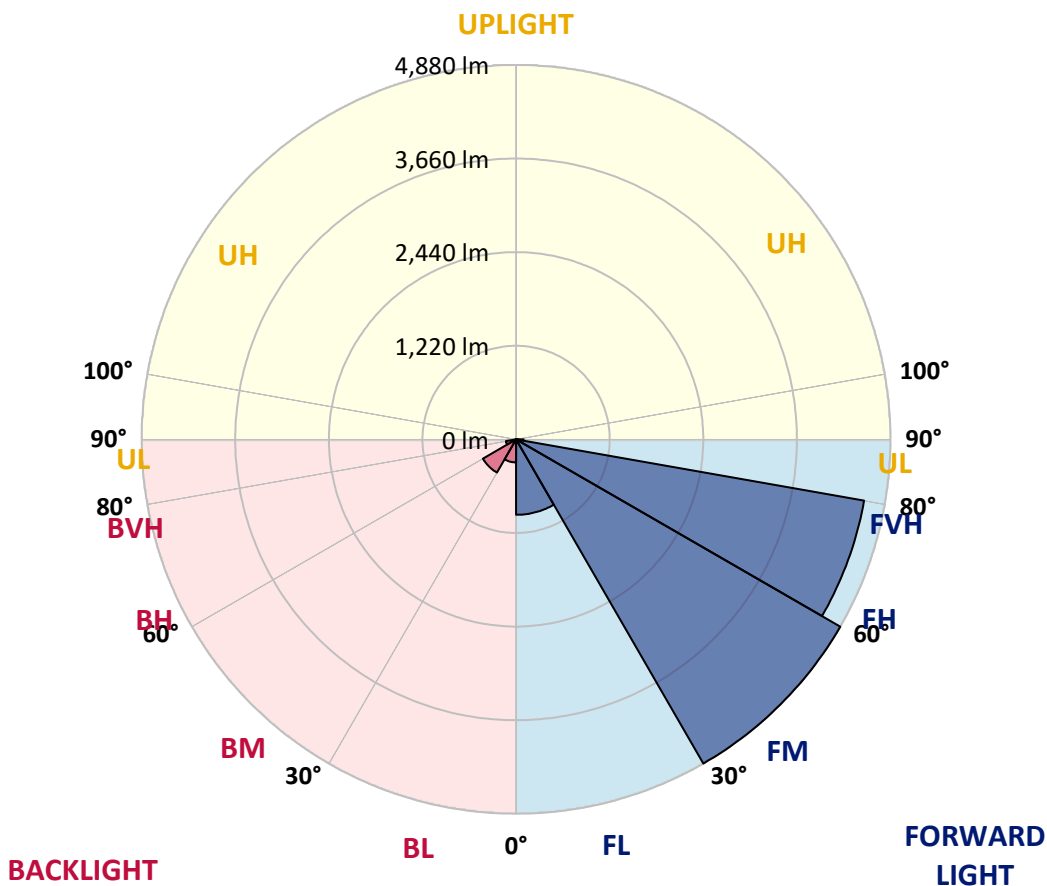
CATALOG NUMBER: GWS-SA4B-760-U-SL4-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 983.6 | 8.5 | | | |
| FM (30°-60°) | 4879.6 | 42.4 | | | |
| FH (60°-80°) | 4604.9 | 40.0 | | | G2/5000 |
| FVH (80°-90°) | 97.1 | 0.8 | | | G1/100 |
| BL (0°-30°) | 300.5 | 2.6 | B1/500 | | |
| BM (30°-60°) | 499.4 | 4.3 | B1/1000 | | |
| BH (60°-80°) | 134.2 | 1.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.9 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1952.4 | 1952.4 | 1952.4 | 1952.4 | 1952.4 | 1952.4 | 1952.4 | 1952.4 | 1952.4 | 1952.4 | 1952.4 |
| 2.5° | 2099.0 | 2106.3 | 2105.3 | 2108.4 | 2101.1 | 2089.6 | 2087.5 | 2071.8 | 2043.5 | 2007.9 | 1968.1 |
| 5° | 2141.9 | 2150.3 | 2144.0 | 2140.9 | 2127.3 | 2114.7 | 2111.6 | 2094.8 | 2062.4 | 2014.2 | 1945.1 |
| 7.5° | 2178.6 | 2180.6 | 2176.5 | 2169.1 | 2149.2 | 2132.5 | 2121.0 | 2097.9 | 2059.2 | 2011.1 | 1931.5 |
| 10° | 2184.8 | 2183.8 | 2185.9 | 2186.9 | 2174.4 | 2159.7 | 2150.3 | 2118.9 | 2069.7 | 2018.4 | 1932.5 |
| 12.5° | 2177.5 | 2177.5 | 2191.1 | 2206.8 | 2206.8 | 2199.5 | 2190.1 | 2161.8 | 2104.2 | 2043.5 | 1953.5 |
| 15° | 2186.9 | 2190.1 | 2216.2 | 2245.6 | 2255.0 | 2247.7 | 2243.5 | 2214.2 | 2154.5 | 2087.5 | 1991.2 |
| 17.5° | 2220.4 | 2223.6 | 2265.4 | 2309.4 | 2320.9 | 2312.6 | 2304.2 | 2274.9 | 2211.0 | 2137.7 | 2034.1 |
| 20° | 2269.6 | 2278.0 | 2331.4 | 2387.9 | 2398.4 | 2387.9 | 2371.2 | 2330.4 | 2266.5 | 2192.2 | 2074.9 |
| 22.5° | 2359.7 | 2364.9 | 2422.5 | 2482.2 | 2487.4 | 2470.6 | 2445.5 | 2389.0 | 2322.0 | 2249.7 | 2121.0 |
| 25° | 2479.0 | 2486.3 | 2543.9 | 2601.5 | 2587.9 | 2562.8 | 2528.2 | 2464.4 | 2387.9 | 2317.8 | 2179.6 |
| 27.5° | 2621.4 | 2629.8 | 2686.3 | 2736.5 | 2700.9 | 2671.6 | 2632.9 | 2553.3 | 2475.9 | 2412.0 | 2255.0 |
| 30° | 2775.3 | 2782.6 | 2832.9 | 2877.9 | 2830.8 | 2796.2 | 2750.2 | 2668.5 | 2590.0 | 2541.8 | 2361.8 |
| 32.5° | 2923.9 | 2922.9 | 2971.0 | 3007.7 | 2959.5 | 2932.3 | 2890.4 | 2807.7 | 2744.9 | 2724.0 | 2520.9 |
| 35° | 3062.1 | 3062.1 | 3101.9 | 3138.5 | 3104.0 | 3089.3 | 3050.6 | 2984.7 | 2949.1 | 2974.2 | 2733.4 |
| 37.5° | 3201.4 | 3194.0 | 3231.7 | 3272.5 | 3269.4 | 3270.5 | 3248.5 | 3217.1 | 3219.2 | 3308.1 | 3025.5 |
| 40° | 3316.5 | 3313.4 | 3357.3 | 3410.7 | 3452.6 | 3486.1 | 3472.5 | 3484.0 | 3550.0 | 3716.4 | 3399.2 |
| 42.5° | 3408.6 | 3416.0 | 3472.5 | 3557.3 | 3663.0 | 3731.1 | 3740.5 | 3787.6 | 3957.2 | 4214.7 | 3821.1 |
| 45° | 3514.4 | 3515.4 | 3593.9 | 3723.8 | 3892.3 | 4000.1 | 4037.8 | 4159.3 | 4400.0 | 4731.9 | 4283.8 |
| 47.5° | 3644.2 | 3631.6 | 3719.6 | 3901.7 | 4145.6 | 4304.8 | 4371.8 | 4523.6 | 4896.3 | 5236.5 | 4660.7 |
| 50° | 3787.6 | 3764.6 | 3864.0 | 4112.1 | 4429.3 | 4628.3 | 4764.3 | 4986.3 | 5388.3 | 5651.1 | 4941.3 |
| 52.5° | 3954.1 | 3932.1 | 4045.1 | 4354.0 | 4769.6 | 5011.4 | 5186.2 | 5410.3 | 5810.2 | 5967.2 | 5108.8 |
| 55° | 4165.5 | 4143.5 | 4262.9 | 4644.0 | 5171.6 | 5485.6 | 5668.9 | 5857.3 | 6202.8 | 6200.7 | 5230.2 |
| 57.5° | 4400.0 | 4369.7 | 4535.1 | 5010.4 | 5673.0 | 5999.7 | 6186.0 | 6278.1 | 6501.1 | 6381.8 | 5311.9 |
| 60° | 4669.1 | 4641.9 | 4871.1 | 5446.9 | 6252.0 | 6554.5 | 6671.8 | 6634.1 | 6746.1 | 6488.6 | 5283.6 |
| 62.5° | 4912.0 | 4899.4 | 5184.1 | 5909.6 | 6803.7 | 7059.1 | 7091.6 | 6927.2 | 6926.2 | 6490.7 | 5093.1 |
| 65° | 5164.3 | 5188.3 | 5611.3 | 6442.5 | 7358.5 | 7530.2 | 7474.7 | 7218.2 | 6998.4 | 6234.2 | 4529.8 |
| 67.5° | 5258.5 | 5328.6 | 5892.9 | 6924.1 | 7796.1 | 7930.1 | 7832.8 | 7363.8 | 6697.9 | 5371.5 | 3449.5 |
| 70° | 4676.4 | 4808.3 | 5627.0 | 6951.3 | 7977.2 | 8104.9 | 7871.5 | 6972.2 | 5584.1 | 3558.3 | 1889.6 |
| 72.5° | 3556.2 | 3710.1 | 4689.0 | 5691.9 | 7174.3 | 7465.3 | 7066.4 | 5680.4 | 3599.2 | 1558.8 | 634.4 |
| 75° | 1990.1 | 2156.6 | 3492.4 | 4285.9 | 4816.7 | 5082.6 | 4936.0 | 3644.2 | 1594.4 | 407.2 | 189.5 |
| 77.5° | 673.1 | 728.6 | 1624.8 | 2651.7 | 3179.4 | 2940.7 | 2489.5 | 1810.1 | 586.3 | 154.9 | 100.5 |
| 80° | 398.9 | 419.8 | 605.1 | 1320.1 | 1672.9 | 1387.1 | 1095.0 | 669.0 | 298.4 | 82.7 | 70.1 |
| 82.5° | 119.3 | 141.3 | 334.0 | 489.9 | 655.3 | 408.3 | 345.5 | 382.1 | 154.9 | 45.0 | 58.6 |
| 85° | 0.0 | 0.0 | 71.2 | 151.8 | 171.7 | 67.0 | 67.0 | 216.7 | 28.3 | 18.8 | 42.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 5.2 | 3.1 | 4.2 | 9.4 |
| 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° | 1952.4 | 1952.4 | 1952.4 | 1952.4 | 1952.4 | 1952.4 | 1952.4 | 1952.4 | 1952.4 | 1952.4 | 1952.4 |
| 2.5° | 1939.9 | 1903.2 | 1860.3 | 1819.5 | 1780.7 | 1730.5 | 1706.4 | 1677.1 | 1652.0 | 1638.4 | 1645.7 |
| 5° | 1901.1 | 1843.6 | 1755.6 | 1666.6 | 1576.6 | 1491.8 | 1415.4 | 1364.1 | 1318.0 | 1293.9 | 1299.2 |
| 7.5° | 1867.6 | 1790.2 | 1653.0 | 1507.5 | 1363.0 | 1217.5 | 1099.2 | 1007.1 | 935.9 | 906.6 | 901.4 |
| 10° | 1853.0 | 1755.6 | 1561.9 | 1352.6 | 1130.6 | 934.9 | 767.4 | 665.8 | 593.6 | 558.0 | 564.3 |
| 12.5° | 1860.3 | 1737.8 | 1484.5 | 1200.8 | 912.9 | 684.7 | 524.5 | 429.2 | 377.9 | 357.0 | 351.8 |
| 15° | 1881.2 | 1733.6 | 1415.4 | 1045.8 | 704.5 | 478.4 | 362.2 | 323.5 | 313.0 | 310.9 | 310.9 |
| 17.5° | 1905.3 | 1734.7 | 1344.2 | 888.8 | 535.0 | 354.9 | 309.9 | 302.5 | 299.4 | 297.3 | 298.4 |
| 20° | 1929.4 | 1734.7 | 1262.5 | 729.7 | 402.0 | 306.7 | 295.2 | 290.0 | 286.8 | 285.8 | 285.8 |
| 22.5° | 1958.7 | 1734.7 | 1171.5 | 582.1 | 322.4 | 291.0 | 281.6 | 278.5 | 275.3 | 274.3 | 273.2 |
| 25° | 1994.3 | 1735.7 | 1071.0 | 455.4 | 293.1 | 277.4 | 270.1 | 267.0 | 263.8 | 261.7 | 261.7 |
| 27.5° | 2045.6 | 1744.1 | 960.0 | 354.9 | 276.4 | 264.9 | 258.6 | 255.4 | 252.3 | 249.2 | 249.2 |
| 30° | 2119.9 | 1765.0 | 835.4 | 293.1 | 260.7 | 251.3 | 245.0 | 242.9 | 239.7 | 236.6 | 235.5 |
| 32.5° | 2230.9 | 1801.7 | 706.6 | 262.8 | 246.0 | 236.6 | 229.3 | 227.2 | 224.0 | 220.9 | 219.8 |
| 35° | 2385.8 | 1868.7 | 581.0 | 243.9 | 227.2 | 217.8 | 213.6 | 212.5 | 208.3 | 205.2 | 205.2 |
| 37.5° | 2613.0 | 1977.6 | 460.6 | 225.1 | 211.5 | 204.1 | 198.9 | 196.8 | 192.6 | 189.5 | 188.4 |
| 40° | 2890.4 | 2118.9 | 358.0 | 210.4 | 196.8 | 189.5 | 184.3 | 181.1 | 175.9 | 171.7 | 169.6 |
| 42.5° | 3244.3 | 2291.6 | 282.7 | 194.7 | 183.2 | 175.9 | 171.7 | 165.4 | 158.1 | 151.8 | 150.8 |
| 45° | 3612.8 | 2469.6 | 233.5 | 180.1 | 170.6 | 164.4 | 159.1 | 150.8 | 140.3 | 133.0 | 130.9 |
| 47.5° | 3895.4 | 2580.6 | 204.1 | 164.4 | 157.0 | 151.8 | 145.5 | 135.0 | 122.5 | 114.1 | 112.0 |
| 50° | 4097.5 | 2597.3 | 182.2 | 149.7 | 145.5 | 140.3 | 130.9 | 118.3 | 104.7 | 96.3 | 94.2 |
| 52.5° | 4196.9 | 2521.9 | 164.4 | 136.1 | 133.0 | 127.7 | 116.2 | 102.6 | 87.9 | 79.6 | 77.5 |
| 55° | 4242.0 | 2379.6 | 147.6 | 124.6 | 120.4 | 114.1 | 101.5 | 86.9 | 72.2 | 64.9 | 62.8 |
| 57.5° | 4224.2 | 2169.1 | 133.0 | 113.1 | 107.8 | 100.5 | 86.9 | 71.2 | 59.7 | 52.3 | 51.3 |
| 60° | 4092.3 | 1873.9 | 118.3 | 101.5 | 95.3 | 86.9 | 73.3 | 58.6 | 48.2 | 42.9 | 41.9 |
| 62.5° | 3807.5 | 1507.5 | 103.6 | 87.9 | 83.8 | 75.4 | 62.8 | 48.2 | 39.8 | 36.6 | 35.6 |
| 65° | 3224.4 | 1065.7 | 89.0 | 74.3 | 72.2 | 63.9 | 52.3 | 39.8 | 34.5 | 32.5 | 31.4 |
| 67.5° | 2317.8 | 648.0 | 75.4 | 63.9 | 61.8 | 54.4 | 44.0 | 34.5 | 31.4 | 30.4 | 30.4 |
| 70° | 1165.2 | 306.7 | 59.7 | 52.3 | 52.3 | 45.0 | 37.7 | 31.4 | 30.4 | 29.3 | 29.3 |
| 72.5° | 395.7 | 130.9 | 45.0 | 40.8 | 42.9 | 38.7 | 32.5 | 29.3 | 29.3 | 29.3 | 29.3 |
| 75° | 135.0 | 69.1 | 31.4 | 29.3 | 31.4 | 31.4 | 28.3 | 28.3 | 29.3 | 29.3 | 29.3 |
| 77.5° | 87.9 | 46.1 | 22.0 | 19.9 | 24.1 | 24.1 | 24.1 | 26.2 | 28.3 | 28.3 | 28.3 |
| 80° | 72.2 | 25.1 | 14.7 | 13.6 | 17.8 | 17.8 | 19.9 | 24.1 | 26.2 | 26.2 | 26.2 |
| 82.5° | 61.8 | 15.7 | 8.4 | 9.4 | 12.6 | 13.6 | 16.8 | 19.9 | 23.0 | 24.1 | 24.1 |
| 85° | 41.9 | 8.4 | 6.3 | 7.3 | 8.4 | 10.5 | 13.6 | 16.8 | 18.8 | 20.9 | 20.9 |
| 87.5° | 11.5 | 3.1 | 4.2 | 5.2 | 5.2 | 7.3 | 10.5 | 12.6 | 14.7 | 15.7 | 15.7 |
| 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)