

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: P200084

Luminaire Tested: **GWC-AF-02-LED-E1-AFL-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-AFL-600-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6853.8 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 66
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: 25 FT

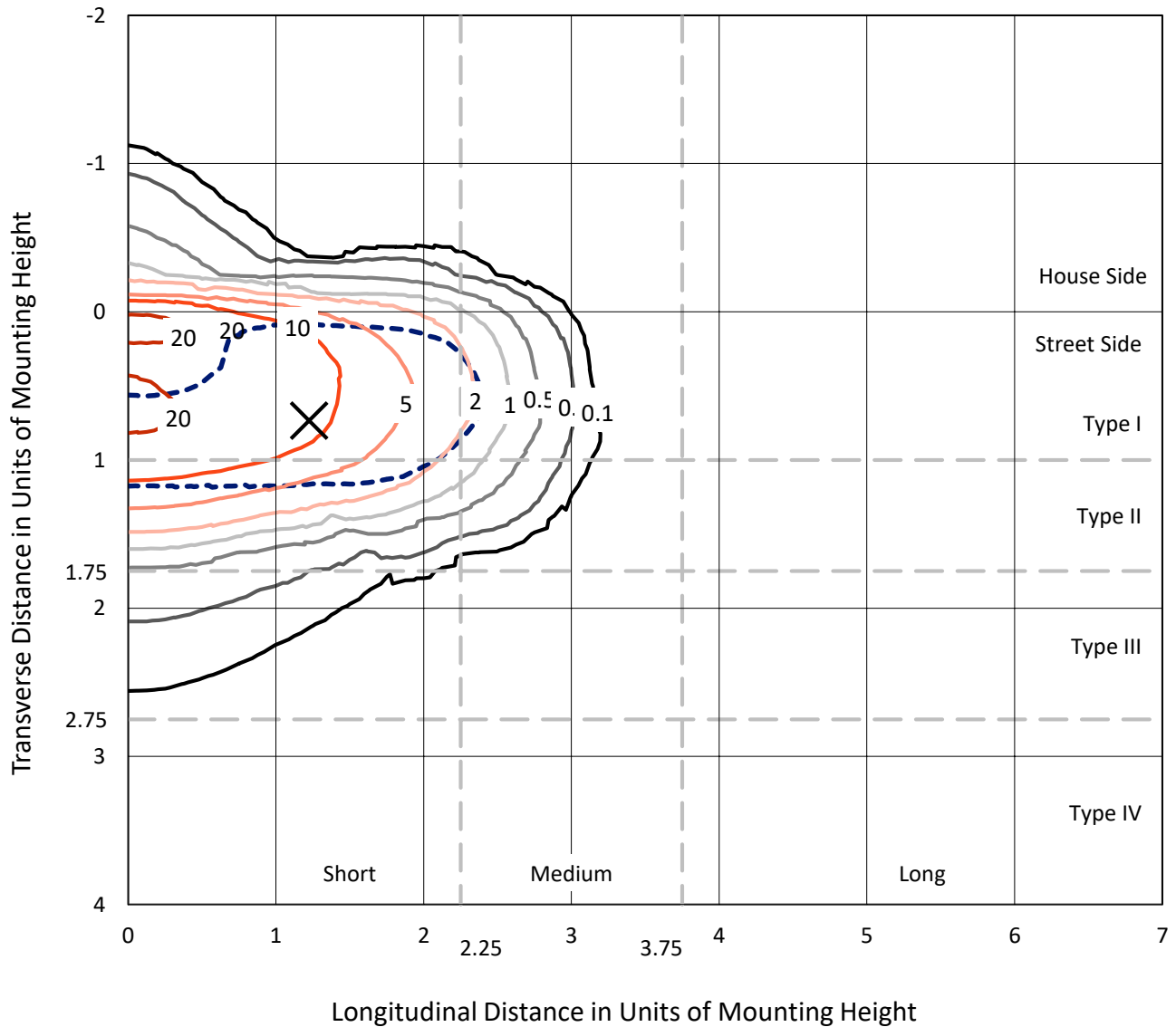


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Iso-Footcandle Lines of Horizontal Illumination

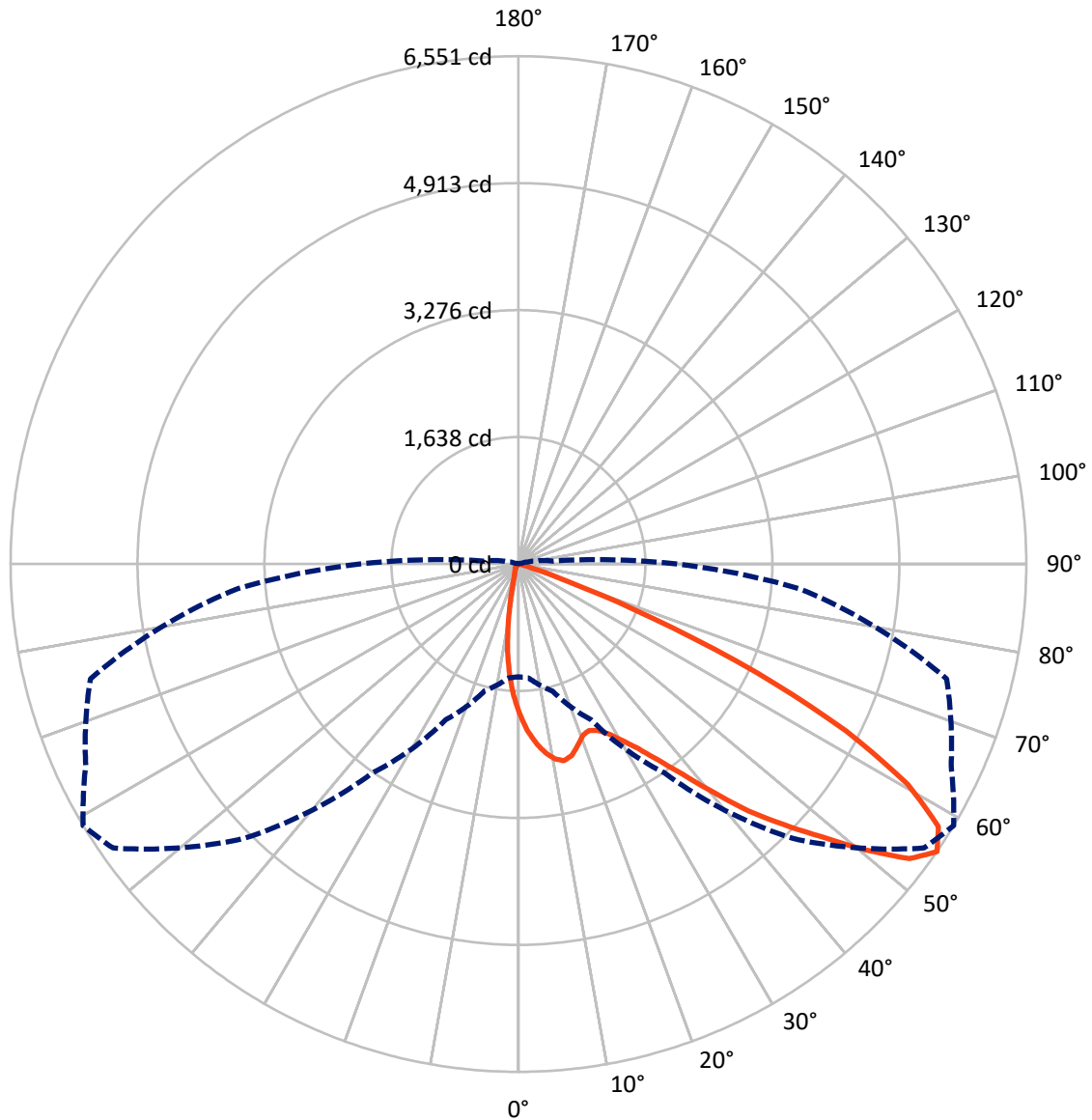
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 382.8 | 0.0 | 382.8 |
| | % Fixture | 5.6 | 0.0 | 5.6 |
| Street Side | Lumens | 6471.0 | 0.0 | 6471.0 |
| | % Fixture | 94.4 | 0.0 | 94.4 |
| Total | Lumens | 6853.8 | 0.0 | 6853.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 161.6 | 2.4 |
| 10°-20° | 386.9 | 5.6 |
| 20°-30° | 658.4 | 9.6 |
| 30°-40° | 1132.3 | 16.5 |
| 40°-50° | 1748.1 | 25.5 |
| 50°-60° | 1757.4 | 25.6 |
| 60°-70° | 901.2 | 13.1 |
| 70°-80° | 97.7 | 1.4 |
| 80°-90° | 10.2 | 0.1 |
| 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° | 6853.8 | 100.0 |
| 0°-180° | 6853.8 | 100.0 |

Coefficient of Utilization



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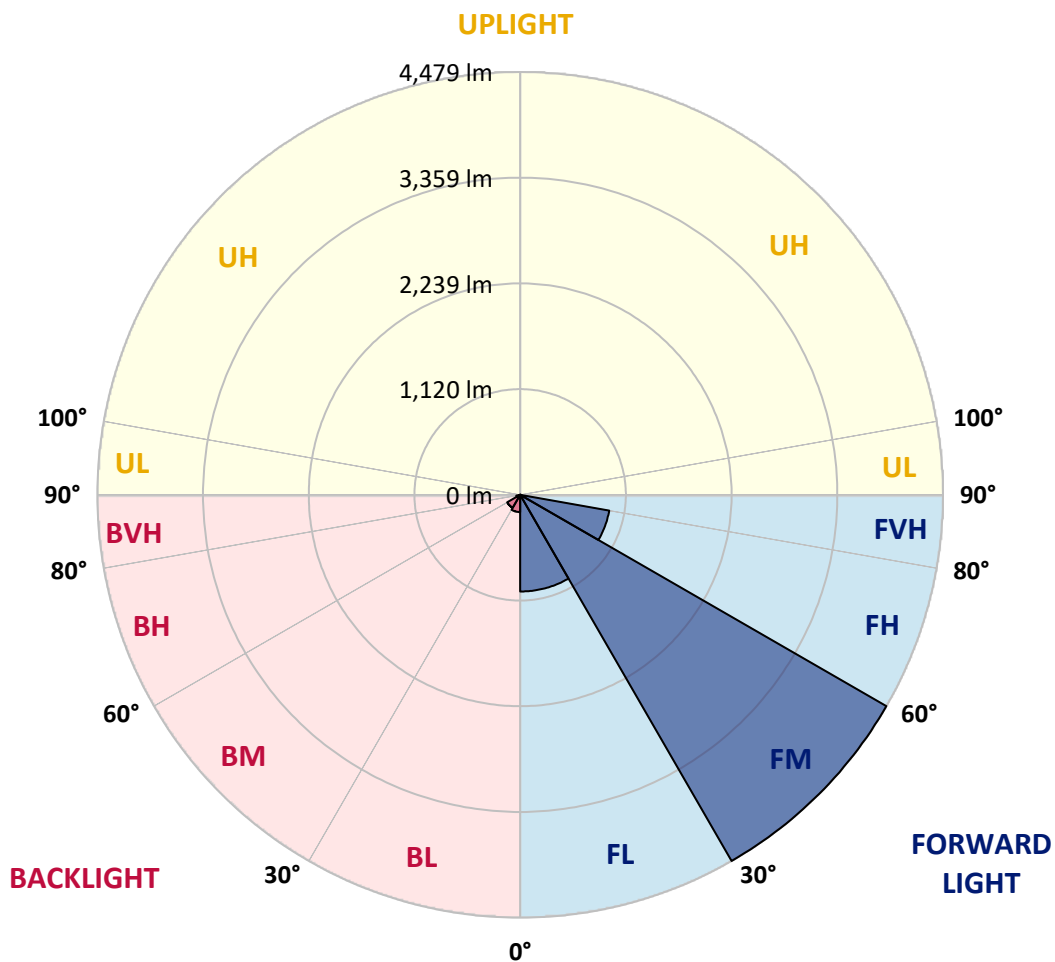
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1024.2 | 14.9 | | | |
| FM | (30°-60°) | 4478.9 | 65.3 | | | |
| FH | (60°-80°) | 957.9 | 14.0 | | | G1/1800 |
| FVH | (80°-90°) | 10.0 | 0.1 | | | G1/100 |
| BL | (0°-30°) | 182.7 | 2.7 | B1/500 | | |
| BM | (30°-60°) | 158.9 | 2.3 | B0/220 | | |
| BH | (60°-80°) | 41.0 | 0.6 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 0.2 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1929.3 | 1929.3 | 1929.3 | 1929.3 | 1929.3 | 1929.3 | 1929.3 | 1929.3 | 1929.3 | 1929.3 | 1929.3 |
| 2.5° | 2282.8 | 2258.6 | 2251.3 | 2246.4 | 2224.2 | 2196.3 | 2158.2 | 2140.4 | 2104.0 | 2045.4 | 1973.4 |
| 5° | 2491.9 | 2487.5 | 2471.3 | 2462.4 | 2438.5 | 2398.9 | 2338.3 | 2309.1 | 2251.3 | 2152.6 | 2023.6 |
| 7.5° | 2400.6 | 2428.4 | 2450.7 | 2487.9 | 2534.8 | 2533.1 | 2482.2 | 2451.9 | 2387.2 | 2256.9 | 2079.4 |
| 10° | 2047.4 | 2070.0 | 2106.5 | 2191.0 | 2363.3 | 2515.4 | 2575.3 | 2553.4 | 2501.6 | 2352.8 | 2133.2 |
| 12.5° | 1978.3 | 1975.8 | 1982.3 | 2006.9 | 2097.2 | 2313.9 | 2559.4 | 2603.5 | 2593.1 | 2440.6 | 2184.1 |
| 15° | 2015.0 | 2012.2 | 2011.4 | 2019.9 | 2041.7 | 2133.2 | 2441.0 | 2567.6 | 2648.8 | 2521.9 | 2227.4 |
| 17.5° | 2118.2 | 2106.1 | 2099.6 | 2092.8 | 2086.2 | 2108.9 | 2298.6 | 2466.8 | 2657.3 | 2593.1 | 2263.4 |
| 20° | 2295.0 | 2274.7 | 2250.9 | 2212.0 | 2175.6 | 2164.3 | 2238.7 | 2363.3 | 2627.0 | 2647.2 | 2286.9 |
| 22.5° | 2517.0 | 2491.1 | 2449.9 | 2379.1 | 2305.0 | 2262.2 | 2268.3 | 2330.6 | 2581.7 | 2706.3 | 2297.8 |
| 25° | 2766.6 | 2733.4 | 2678.4 | 2580.1 | 2471.3 | 2395.2 | 2355.7 | 2377.4 | 2561.1 | 2775.5 | 2310.3 |
| 27.5° | 3033.9 | 2997.1 | 2925.1 | 2791.2 | 2667.9 | 2565.2 | 2484.2 | 2481.4 | 2596.2 | 2866.1 | 2330.6 |
| 30° | 3298.8 | 3293.2 | 3199.4 | 3057.8 | 2894.3 | 2769.4 | 2652.9 | 2638.0 | 2694.6 | 2991.4 | 2370.6 |
| 32.5° | 3652.3 | 3609.9 | 3495.0 | 3349.4 | 3160.9 | 3010.9 | 2873.0 | 2838.2 | 2845.4 | 3137.5 | 2432.5 |
| 35° | 4098.0 | 4051.6 | 3889.8 | 3688.8 | 3478.0 | 3300.9 | 3148.3 | 3101.1 | 3083.3 | 3376.5 | 2536.8 |
| 37.5° | 4386.0 | 4385.3 | 4283.7 | 4079.0 | 3852.9 | 3657.6 | 3491.7 | 3436.4 | 3400.4 | 3665.3 | 2698.6 |
| 40° | 4393.8 | 4412.7 | 4426.1 | 4424.1 | 4263.0 | 4083.1 | 3935.9 | 3867.6 | 3783.8 | 4051.2 | 2907.7 |
| 42.5° | 4157.9 | 4206.9 | 4324.5 | 4524.4 | 4619.9 | 4548.2 | 4424.1 | 4357.0 | 4232.4 | 4464.2 | 3162.6 |
| 45° | 3839.2 | 3873.2 | 4079.0 | 4447.1 | 4813.2 | 5009.3 | 4914.7 | 4794.6 | 4630.4 | 4894.8 | 3391.1 |
| 47.5° | 3696.4 | 3702.5 | 3835.6 | 4239.6 | 4827.7 | 5387.1 | 5444.6 | 5249.2 | 4991.9 | 5241.9 | 3569.8 |
| 50° | 3269.8 | 3280.6 | 3464.2 | 3880.1 | 4657.1 | 5565.5 | 5976.8 | 5791.5 | 5386.3 | 5509.3 | 3635.0 |
| 52.5° | 2464.4 | 2479.8 | 2712.8 | 3289.1 | 4187.9 | 5489.5 | 6357.8 | 6312.9 | 5818.2 | 5639.9 | 3638.6 |
| 55° | 1454.0 | 1474.3 | 1696.8 | 2214.1 | 3294.0 | 5005.7 | 6386.2 | 6551.2 | 6159.2 | 5717.2 | 3632.9 |
| 57.5° | 679.1 | 693.3 | 820.7 | 1140.6 | 2048.7 | 3956.1 | 5959.8 | 6387.7 | 6347.3 | 5758.0 | 3673.0 |
| 60° | 360.8 | 364.8 | 395.6 | 493.9 | 925.9 | 2508.5 | 5127.8 | 5768.1 | 6175.9 | 5814.7 | 3721.9 |
| 62.5° | 275.9 | 277.0 | 275.5 | 287.1 | 389.1 | 1113.5 | 3876.1 | 4742.0 | 5485.4 | 5772.2 | 3667.7 |
| 65° | 239.1 | 241.1 | 229.8 | 226.9 | 249.6 | 397.2 | 2302.7 | 3380.1 | 4310.4 | 5199.0 | 3298.4 |
| 67.5° | 214.4 | 215.1 | 201.4 | 189.7 | 193.7 | 214.8 | 908.5 | 1850.4 | 2853.1 | 3810.9 | 2390.8 |
| 70° | 197.4 | 196.6 | 181.6 | 163.0 | 157.7 | 146.8 | 288.8 | 678.3 | 1363.5 | 1932.6 | 1111.8 |
| 72.5° | 174.7 | 175.1 | 167.9 | 143.6 | 131.0 | 102.7 | 133.9 | 197.7 | 406.9 | 526.6 | 260.4 |
| 75° | 154.9 | 152.9 | 144.0 | 128.6 | 108.0 | 67.5 | 66.3 | 88.2 | 125.4 | 124.6 | 56.3 |
| 77.5° | 112.0 | 110.0 | 112.8 | 105.6 | 83.0 | 43.7 | 33.1 | 42.5 | 50.9 | 49.3 | 15.8 |
| 80° | 82.1 | 80.9 | 72.8 | 87.8 | 73.2 | 30.0 | 20.7 | 22.6 | 26.3 | 22.2 | 4.8 |
| 82.5° | 56.3 | 55.9 | 51.4 | 48.5 | 41.6 | 18.2 | 13.0 | 14.1 | 17.0 | 12.6 | 2.5 |
| 85° | 8.9 | 10.1 | 37.2 | 29.6 | 24.7 | 8.1 | 8.9 | 9.7 | 11.4 | 6.9 | 0.8 |
| 87.5° | 0.0 | 0.0 | 17.4 | 15.3 | 4.8 | 3.3 | 5.2 | 5.6 | 5.6 | 3.7 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1929.3 | 1929.3 | 1929.3 | 1929.3 | 1929.3 | 1929.3 | 1929.3 | 1929.3 | 1929.3 | 1929.3 | 1929.3 |
| 2.5° | 1936.5 | 1896.1 | 1821.4 | 1744.0 | 1672.5 | 1587.1 | 1528.5 | 1484.4 | 1433.5 | 1419.7 | 1449.6 |
| 5° | 1949.9 | 1873.5 | 1712.5 | 1537.4 | 1372.8 | 1190.3 | 1050.8 | 940.4 | 840.5 | 806.5 | 837.3 |
| 7.5° | 1971.0 | 1857.3 | 1594.8 | 1306.4 | 1020.1 | 735.3 | 540.3 | 412.1 | 330.4 | 306.2 | 319.2 |
| 10° | 1992.0 | 1833.8 | 1458.5 | 1033.0 | 641.5 | 357.9 | 232.9 | 186.1 | 168.7 | 165.0 | 167.0 |
| 12.5° | 2009.4 | 1802.3 | 1292.3 | 734.5 | 343.0 | 191.7 | 152.5 | 144.8 | 142.4 | 142.4 | 143.2 |
| 15° | 2019.9 | 1754.6 | 1095.3 | 467.2 | 197.4 | 144.8 | 133.1 | 130.6 | 130.6 | 131.0 | 131.9 |
| 17.5° | 2018.7 | 1693.9 | 879.7 | 282.7 | 147.6 | 128.2 | 121.3 | 119.3 | 118.9 | 119.7 | 120.1 |
| 20° | 2003.8 | 1614.6 | 663.3 | 186.5 | 128.6 | 116.9 | 110.0 | 106.4 | 106.0 | 106.8 | 107.6 |
| 22.5° | 1975.4 | 1516.7 | 474.4 | 143.6 | 116.1 | 106.0 | 97.5 | 94.2 | 94.2 | 95.0 | 95.9 |
| 25° | 1941.0 | 1397.0 | 324.4 | 121.7 | 104.8 | 94.2 | 86.1 | 83.4 | 84.1 | 86.1 | 86.5 |
| 27.5° | 1898.2 | 1262.3 | 220.4 | 104.3 | 91.0 | 82.6 | 76.4 | 74.5 | 76.4 | 79.3 | 80.1 |
| 30° | 1861.4 | 1122.0 | 157.3 | 90.2 | 77.2 | 71.2 | 67.5 | 67.5 | 70.4 | 75.6 | 76.8 |
| 32.5° | 1833.0 | 986.1 | 121.3 | 79.7 | 67.1 | 61.9 | 59.8 | 61.9 | 66.3 | 71.6 | 72.8 |
| 35° | 1829.4 | 874.0 | 102.7 | 71.2 | 59.8 | 54.6 | 53.8 | 57.4 | 61.9 | 65.9 | 66.7 |
| 37.5° | 1857.3 | 770.5 | 92.6 | 64.3 | 53.4 | 48.5 | 47.8 | 52.2 | 56.7 | 61.5 | 62.7 |
| 40° | 1910.3 | 689.3 | 85.3 | 57.8 | 48.2 | 42.9 | 41.2 | 44.5 | 50.5 | 57.1 | 58.6 |
| 42.5° | 1979.1 | 622.1 | 77.2 | 51.4 | 42.9 | 35.6 | 33.6 | 37.2 | 43.7 | 50.5 | 52.6 |
| 45° | 2044.6 | 564.3 | 68.3 | 44.1 | 36.0 | 27.5 | 26.7 | 31.5 | 34.8 | 41.6 | 43.3 |
| 47.5° | 2080.6 | 513.3 | 60.7 | 36.0 | 27.9 | 22.2 | 22.2 | 23.4 | 26.7 | 34.8 | 36.4 |
| 50° | 2068.4 | 472.4 | 52.6 | 26.7 | 19.4 | 17.0 | 17.0 | 16.6 | 21.5 | 27.9 | 29.2 |
| 52.5° | 2044.2 | 449.0 | 45.3 | 20.7 | 13.3 | 12.2 | 10.9 | 12.2 | 14.9 | 17.8 | 18.2 |
| 55° | 2040.6 | 444.9 | 38.1 | 16.6 | 9.3 | 8.1 | 6.0 | 6.0 | 6.0 | 5.6 | 4.8 |
| 57.5° | 2068.8 | 451.4 | 31.9 | 13.3 | 6.9 | 5.2 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 2098.0 | 458.3 | 27.5 | 9.3 | 4.8 | 2.9 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 2049.5 | 442.9 | 23.0 | 5.6 | 3.7 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 1800.3 | 377.0 | 18.2 | 4.1 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 1280.5 | 252.4 | 12.2 | 2.5 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 584.4 | 105.6 | 7.7 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 125.0 | 32.7 | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 25.5 | 23.8 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 8.1 | 37.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 4.8 | 27.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.8 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)