

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: P270208

Luminaire Tested: **GWC-AF-02-LED-E1-SL2-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-7027-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11598.2 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

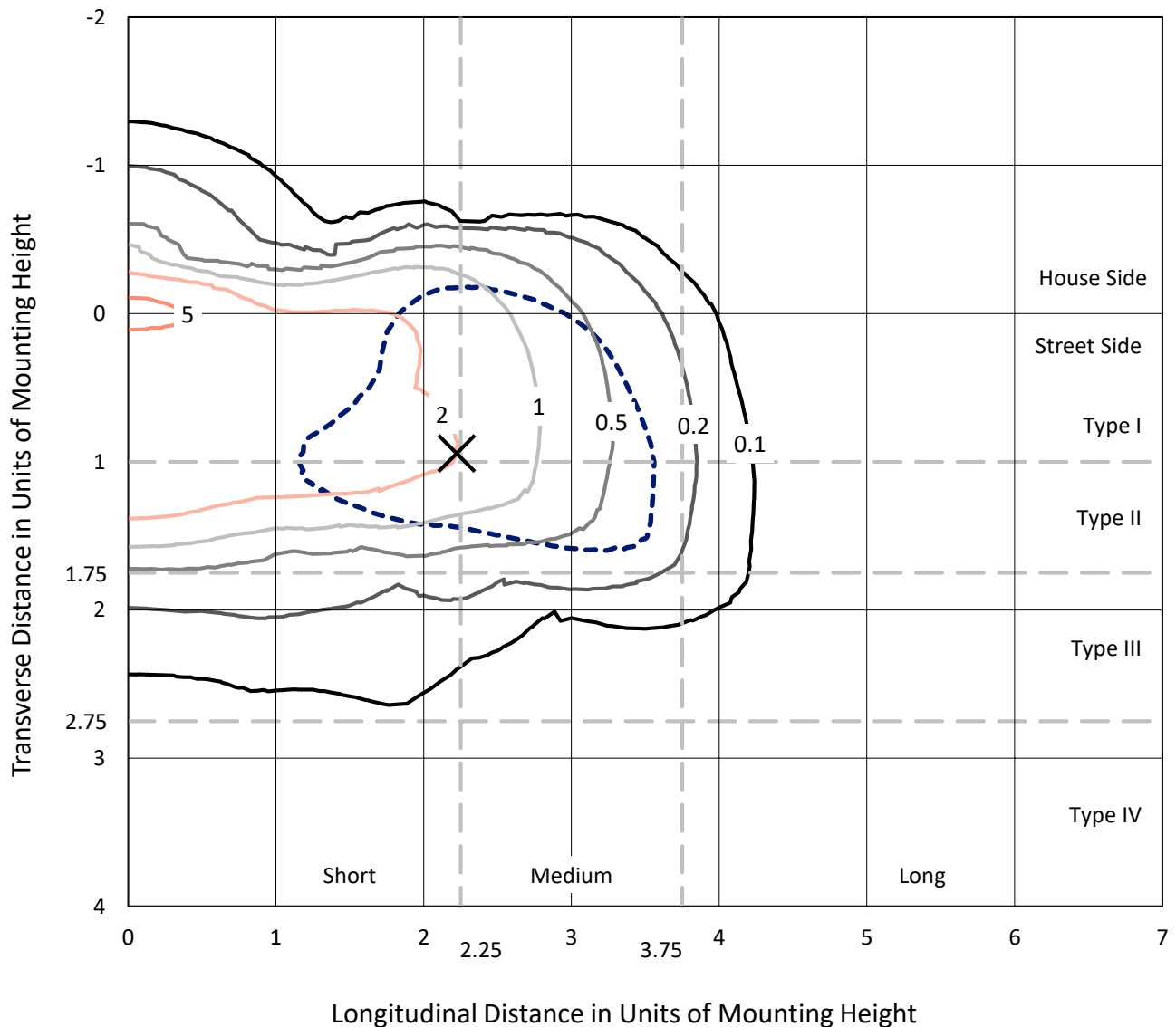
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

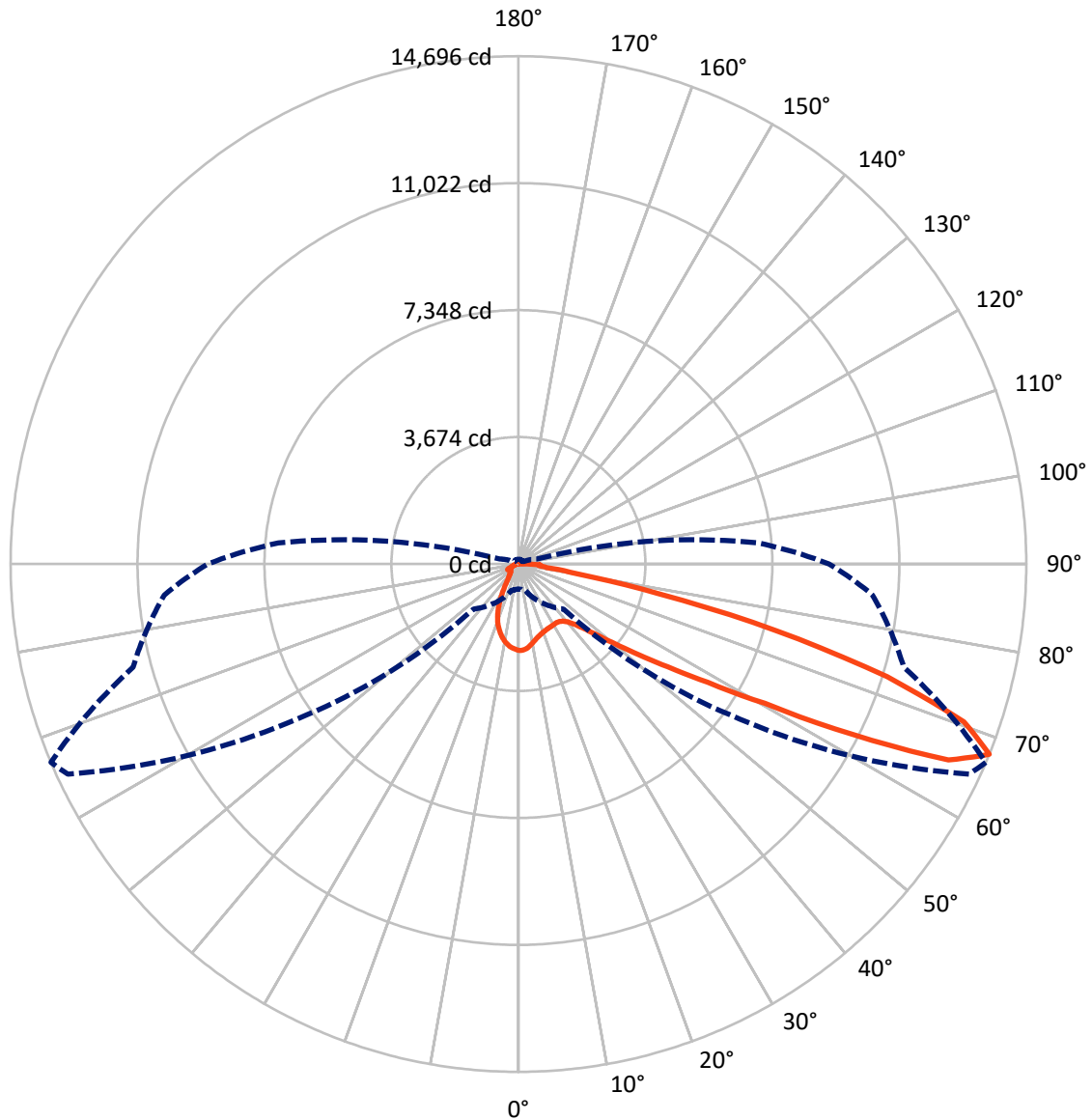
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1921.7 | 0.0 | 1921.7 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 9676.5 | 0.0 | 9676.5 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 11598.2 | 0.0 | 11598.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 213.4 | 1.8 |
| 10°-20° | 493.8 | 4.3 |
| 20°-30° | 669.4 | 5.8 |
| 30°-40° | 951.6 | 8.2 |
| 40°-50° | 1592.1 | 13.7 |
| 50°-60° | 2518.8 | 21.7 |
| 60°-70° | 3208.6 | 27.7 |
| 70°-80° | 1680.7 | 14.5 |
| 80°-90° | 269.6 | 2.3 |
| 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° | 11598.2 | 100.0 |
| 0°-180° | 11598.2 | 100.0 |

Coefficient of Utilization



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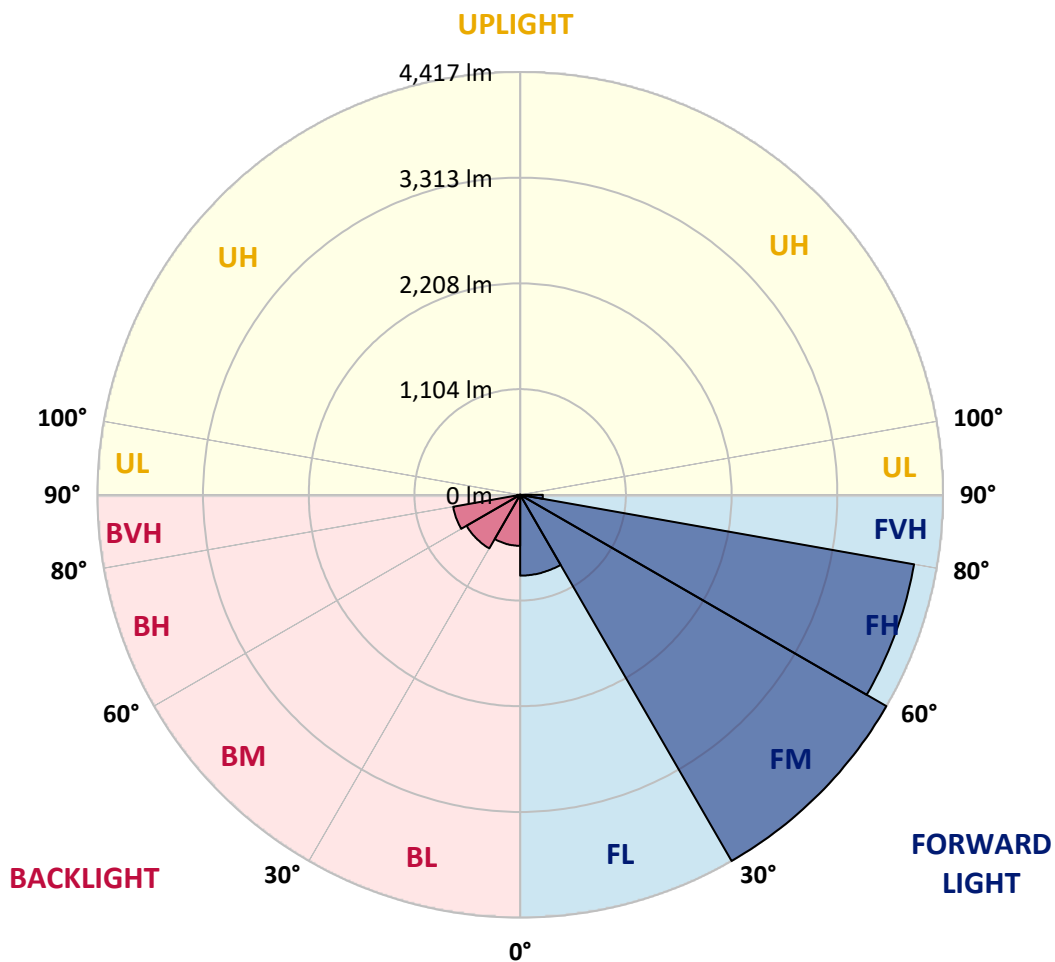
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 844.1 | 7.3 | | | |
| FM | (30°-60°) | 4416.8 | 38.1 | | | |
| FH | (60°-80°) | 4178.6 | 36.0 | | | G2/5000 |
| FVH | (80°-90°) | 237.0 | 2.0 | | | G3/500 |
| BL | (0°-30°) | 532.6 | 4.6 | B2/1000 | | |
| BM | (30°-60°) | 645.7 | 5.6 | B1/1000 | | |
| BH | (60°-80°) | 710.8 | 6.1 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 32.5 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 2501.7 | 2501.7 | 2501.7 | 2501.7 | 2501.7 | 2501.7 | 2501.7 | 2501.7 | 2501.7 | 2501.7 | 2501.7 |
| 2.5° | 2398.7 | 2402.7 | 2415.4 | 2423.4 | 2459.4 | 2474.8 | 2485.7 | 2496.6 | 2498.2 | 2503.3 | 2498.2 |
| 5° | 2147.0 | 2155.7 | 2179.1 | 2205.3 | 2275.1 | 2330.2 | 2387.9 | 2447.9 | 2458.8 | 2497.6 | 2508.5 |
| 7.5° | 1952.0 | 1949.9 | 1969.3 | 2000.6 | 2072.2 | 2148.2 | 2249.4 | 2369.0 | 2392.5 | 2480.0 | 2522.4 |
| 10° | 1809.6 | 1807.8 | 1828.5 | 1861.1 | 1929.2 | 2001.2 | 2115.6 | 2279.2 | 2312.3 | 2452.0 | 2535.5 |
| 12.5° | 1704.4 | 1705.0 | 1725.6 | 1761.5 | 1830.7 | 1903.5 | 2019.5 | 2192.3 | 2234.7 | 2419.3 | 2549.2 |
| 15° | 1634.6 | 1639.1 | 1655.8 | 1694.2 | 1761.5 | 1834.2 | 1948.1 | 2127.0 | 2174.5 | 2393.7 | 2564.7 |
| 17.5° | 1611.2 | 1618.6 | 1624.3 | 1652.3 | 1710.2 | 1782.7 | 1894.3 | 2079.0 | 2129.3 | 2375.8 | 2578.3 |
| 20° | 1632.8 | 1641.6 | 1630.7 | 1640.3 | 1677.0 | 1741.1 | 1851.9 | 2041.3 | 2092.7 | 2355.8 | 2580.0 |
| 22.5° | 1726.2 | 1734.2 | 1702.1 | 1674.1 | 1671.7 | 1710.7 | 1817.1 | 2011.6 | 2064.8 | 2341.0 | 2580.7 |
| 25° | 1890.4 | 1895.5 | 1841.6 | 1776.5 | 1713.0 | 1699.9 | 1792.5 | 1991.0 | 2047.5 | 2327.8 | 2569.7 |
| 27.5° | 2091.7 | 2095.7 | 2033.9 | 1937.7 | 1810.3 | 1725.6 | 1783.9 | 1979.0 | 2037.8 | 2316.4 | 2551.5 |
| 30° | 2336.4 | 2355.3 | 2272.4 | 2151.1 | 1965.2 | 1801.6 | 1801.0 | 1972.7 | 2026.9 | 2297.0 | 2515.4 |
| 32.5° | 2586.8 | 2594.9 | 2537.7 | 2414.7 | 2174.0 | 1935.5 | 1849.2 | 1977.2 | 2024.2 | 2273.5 | 2469.7 |
| 35° | 2840.9 | 2851.2 | 2814.0 | 2715.0 | 2459.4 | 2131.7 | 1942.9 | 2004.1 | 2041.8 | 2265.4 | 2437.6 |
| 37.5° | 3169.7 | 3183.5 | 3132.0 | 3017.5 | 2806.6 | 2397.5 | 2099.1 | 2071.6 | 2096.1 | 2288.3 | 2427.8 |
| 40° | 3689.6 | 3683.3 | 3532.9 | 3362.4 | 3186.3 | 2737.9 | 2322.1 | 2185.9 | 2200.3 | 2362.2 | 2457.7 |
| 42.5° | 4294.7 | 4279.3 | 4020.3 | 3752.5 | 3603.8 | 3149.6 | 2617.2 | 2384.5 | 2381.5 | 2507.3 | 2562.3 |
| 45° | 4777.5 | 4764.9 | 4531.5 | 4201.6 | 4082.5 | 3618.7 | 2998.7 | 2680.2 | 2659.1 | 2737.9 | 2755.6 |
| 47.5° | 5038.9 | 5039.4 | 4905.0 | 4635.7 | 4632.7 | 4214.7 | 3488.8 | 3108.0 | 3071.3 | 3108.6 | 3089.7 |
| 50° | 4947.3 | 4959.4 | 4945.1 | 4859.2 | 5134.9 | 4996.0 | 4128.9 | 3704.5 | 3630.7 | 3667.3 | 3594.7 |
| 52.5° | 4504.6 | 4520.1 | 4604.7 | 4736.4 | 5346.1 | 5940.2 | 5069.1 | 4445.7 | 4360.0 | 4346.8 | 4266.1 |
| 55° | 3719.9 | 3738.8 | 3911.5 | 4269.0 | 5170.5 | 6574.5 | 6552.7 | 5390.5 | 5253.8 | 5129.9 | 5095.5 |
| 57.5° | 2564.0 | 2595.6 | 2873.5 | 3404.2 | 4602.5 | 6766.2 | 8319.6 | 6737.6 | 6459.5 | 6026.0 | 6034.1 |
| 60° | 1445.4 | 1481.9 | 1809.6 | 2291.8 | 3456.3 | 6557.9 | 9663.5 | 8777.7 | 8190.8 | 7075.6 | 7135.1 |
| 62.5° | 919.1 | 958.6 | 1207.4 | 1592.2 | 2073.8 | 5436.9 | 10214.4 | 11613.9 | 10868.8 | 8369.2 | 8427.7 |
| 65° | 744.1 | 761.3 | 878.5 | 1314.3 | 1506.0 | 3275.5 | 9796.2 | 13950.4 | 13672.5 | 10011.4 | 9739.2 |
| 67.5° | 726.4 | 732.1 | 792.8 | 1103.3 | 1444.1 | 1841.0 | 7813.9 | 14387.3 | 14695.6 | 11544.7 | 10285.4 |
| 70° | 717.7 | 737.8 | 893.4 | 1053.0 | 1383.0 | 1552.8 | 4695.7 | 13189.6 | 13676.3 | 11945.8 | 9558.3 |
| 72.5° | 348.4 | 347.1 | 449.5 | 952.4 | 1558.0 | 1610.7 | 2412.5 | 10672.0 | 11160.5 | 10349.5 | 7854.5 |
| 75° | 280.8 | 256.7 | 245.3 | 348.9 | 1498.0 | 1663.2 | 1537.4 | 7343.3 | 7696.7 | 6938.9 | 4828.4 |
| 77.5° | 266.5 | 238.0 | 217.8 | 218.5 | 633.1 | 1763.9 | 1302.4 | 4064.2 | 4167.1 | 3134.2 | 1322.9 |
| 80° | 220.8 | 194.5 | 180.2 | 203.0 | 306.5 | 1679.8 | 1408.2 | 1839.4 | 1687.8 | 769.8 | 440.3 |
| 82.5° | 153.3 | 139.5 | 135.6 | 170.5 | 245.3 | 1197.1 | 1637.5 | 988.3 | 828.7 | 385.6 | 271.6 |
| 85° | 97.7 | 83.5 | 92.6 | 124.1 | 191.0 | 552.5 | 1686.7 | 770.3 | 612.6 | 244.8 | 153.3 |
| 87.5° | 45.2 | 36.7 | 45.8 | 68.6 | 124.7 | 190.5 | 1604.9 | 865.3 | 630.9 | 129.3 | 96.7 |
| 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° | 2501.7 | 2501.7 | 2501.7 | 2501.7 | 2501.7 | 2501.7 | 2501.7 | 2501.7 | 2501.7 | 2501.7 | 2501.7 |
| 2.5° | 2502.9 | 2492.0 | 2483.5 | 2467.4 | 2449.7 | 2432.5 | 2417.1 | 2397.5 | 2391.8 | 2386.7 | 2394.7 |
| 5° | 2510.9 | 2500.0 | 2468.5 | 2419.3 | 2365.0 | 2314.2 | 2263.2 | 2219.7 | 2192.9 | 2178.0 | 2186.6 |
| 7.5° | 2522.9 | 2507.3 | 2442.2 | 2351.9 | 2254.0 | 2164.8 | 2072.7 | 1999.0 | 1944.7 | 1918.9 | 1926.3 |
| 10° | 2533.7 | 2503.9 | 2397.5 | 2262.0 | 2119.0 | 1986.4 | 1841.0 | 1721.1 | 1631.9 | 1584.9 | 1596.3 |
| 12.5° | 2538.3 | 2490.8 | 2335.2 | 2150.0 | 1953.8 | 1759.3 | 1545.4 | 1365.9 | 1237.7 | 1190.9 | 1181.1 |
| 15° | 2542.9 | 2476.0 | 2266.7 | 2022.4 | 1754.2 | 1479.1 | 1179.4 | 964.3 | 857.9 | 834.4 | 829.3 |
| 17.5° | 2544.0 | 2450.2 | 2188.8 | 1883.9 | 1520.2 | 1145.6 | 806.5 | 669.7 | 670.3 | 708.0 | 712.6 |
| 20° | 2532.1 | 2411.9 | 2094.5 | 1711.8 | 1240.0 | 792.1 | 553.6 | 530.2 | 616.5 | 710.9 | 722.3 |
| 22.5° | 2504.6 | 2360.9 | 1987.5 | 1511.0 | 919.1 | 521.6 | 428.4 | 454.2 | 565.7 | 681.2 | 694.3 |
| 25° | 2469.7 | 2299.2 | 1861.1 | 1278.3 | 608.5 | 372.8 | 359.2 | 390.7 | 466.1 | 543.4 | 550.8 |
| 27.5° | 2422.2 | 2226.0 | 1719.3 | 1011.9 | 395.3 | 307.1 | 316.4 | 337.5 | 368.3 | 402.6 | 406.0 |
| 30° | 2360.9 | 2138.5 | 1567.7 | 737.8 | 298.5 | 276.3 | 289.4 | 300.8 | 314.0 | 333.5 | 335.2 |
| 32.5° | 2290.7 | 2054.5 | 1412.1 | 509.6 | 264.8 | 260.1 | 270.5 | 276.3 | 286.6 | 298.5 | 299.8 |
| 35° | 2231.7 | 1974.4 | 1250.8 | 360.3 | 250.4 | 248.2 | 255.1 | 257.4 | 267.1 | 280.2 | 281.3 |
| 37.5° | 2198.1 | 1909.2 | 1084.4 | 290.5 | 240.7 | 237.3 | 241.4 | 241.4 | 255.1 | 274.5 | 277.3 |
| 40° | 2200.3 | 1873.1 | 918.0 | 262.6 | 232.8 | 228.2 | 228.8 | 228.8 | 246.6 | 267.6 | 269.4 |
| 42.5° | 2262.7 | 1882.3 | 770.3 | 251.6 | 226.6 | 221.3 | 218.5 | 220.3 | 235.0 | 248.8 | 250.0 |
| 45° | 2409.1 | 1946.8 | 632.0 | 244.8 | 220.3 | 218.5 | 212.2 | 211.6 | 217.3 | 223.7 | 223.7 |
| 47.5° | 2649.2 | 2074.5 | 538.3 | 240.2 | 215.1 | 214.4 | 207.1 | 199.7 | 199.1 | 201.3 | 201.3 |
| 50° | 3040.0 | 2294.1 | 475.4 | 235.0 | 211.6 | 207.1 | 198.4 | 187.0 | 183.1 | 184.7 | 184.7 |
| 52.5° | 3625.6 | 2685.8 | 451.3 | 228.2 | 204.2 | 196.8 | 187.0 | 175.6 | 172.1 | 172.7 | 172.7 |
| 55° | 4393.7 | 3287.5 | 447.9 | 220.3 | 196.2 | 184.2 | 176.2 | 167.5 | 163.6 | 164.7 | 164.7 |
| 57.5° | 5332.2 | 4119.7 | 509.0 | 207.6 | 185.3 | 171.5 | 167.1 | 161.2 | 158.5 | 160.2 | 159.5 |
| 60° | 6473.2 | 5208.7 | 754.9 | 194.5 | 174.5 | 160.2 | 160.2 | 155.5 | 153.3 | 155.0 | 154.4 |
| 62.5° | 7787.6 | 6459.5 | 1061.5 | 184.7 | 163.0 | 150.9 | 153.3 | 150.9 | 148.7 | 149.8 | 149.3 |
| 65° | 8953.2 | 7274.7 | 994.1 | 177.2 | 151.5 | 142.4 | 146.5 | 145.3 | 143.5 | 144.6 | 144.2 |
| 67.5° | 8987.1 | 6972.6 | 558.2 | 169.3 | 140.8 | 133.8 | 139.5 | 139.0 | 137.8 | 139.0 | 138.3 |
| 70° | 8020.3 | 5887.6 | 314.5 | 154.4 | 129.3 | 123.5 | 131.5 | 131.0 | 129.8 | 132.1 | 131.5 |
| 72.5° | 6425.8 | 4272.5 | 230.0 | 136.2 | 117.8 | 112.6 | 121.8 | 121.2 | 121.2 | 124.7 | 123.0 |
| 75° | 3697.7 | 2198.5 | 183.7 | 116.7 | 105.8 | 101.8 | 109.9 | 110.4 | 111.5 | 116.2 | 112.6 |
| 77.5° | 1054.2 | 685.1 | 149.8 | 99.0 | 91.0 | 89.2 | 97.2 | 98.4 | 99.0 | 104.2 | 99.5 |
| 80° | 391.8 | 315.8 | 123.5 | 83.0 | 74.4 | 74.9 | 82.4 | 84.1 | 84.6 | 89.8 | 84.1 |
| 82.5° | 250.0 | 208.1 | 100.2 | 64.0 | 58.3 | 57.9 | 67.0 | 69.2 | 69.2 | 69.8 | 66.4 |
| 85° | 145.9 | 124.7 | 75.5 | 46.4 | 41.2 | 39.4 | 49.8 | 53.8 | 52.0 | 50.9 | 48.6 |
| 87.5° | 97.7 | 85.8 | 46.4 | 25.7 | 22.3 | 21.2 | 29.1 | 32.0 | 30.9 | 29.1 | 27.5 |
| 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)