

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: P639973

Luminaire Tested: GWS-SA5C-830-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-830-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11236.3 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

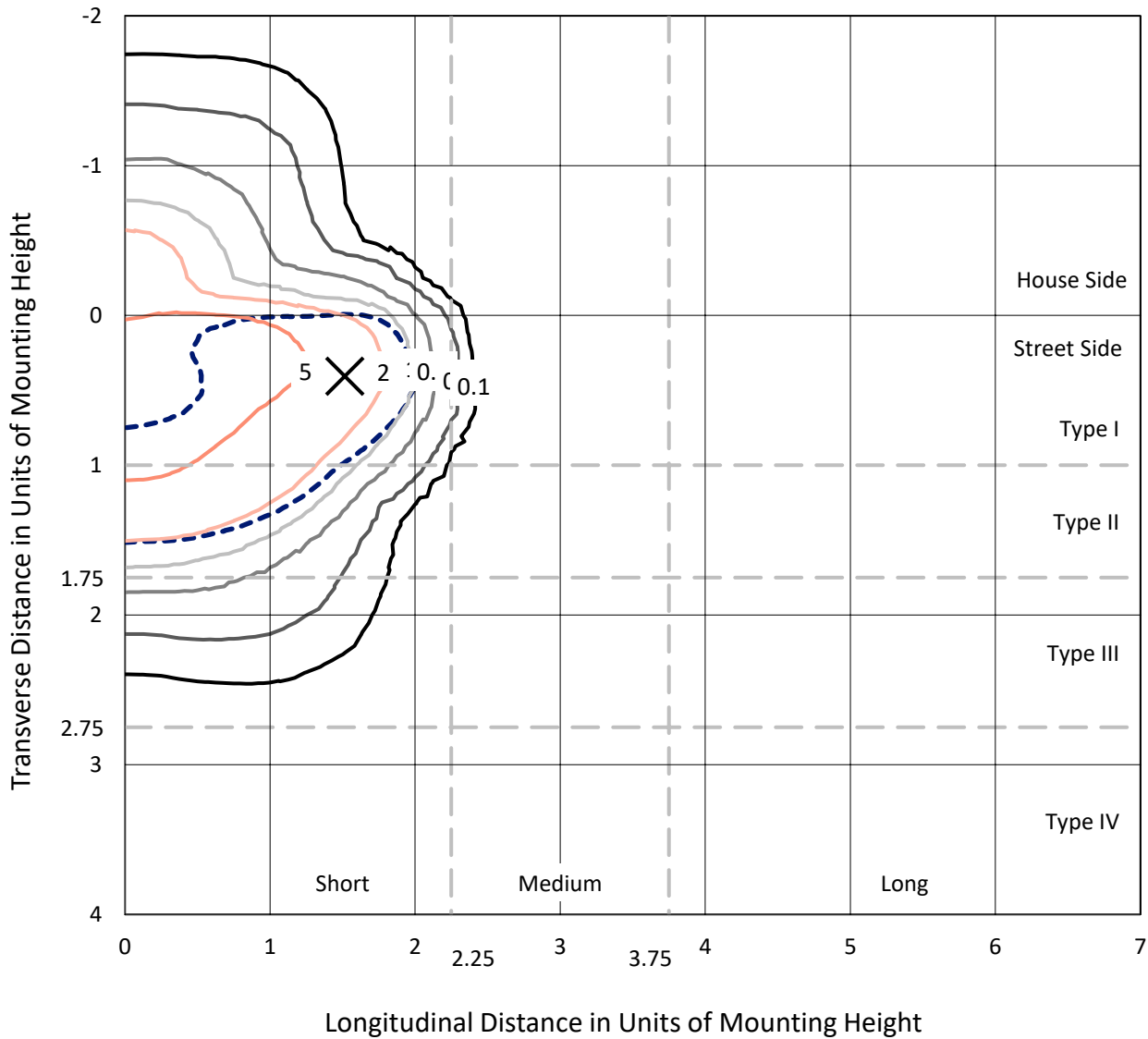
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

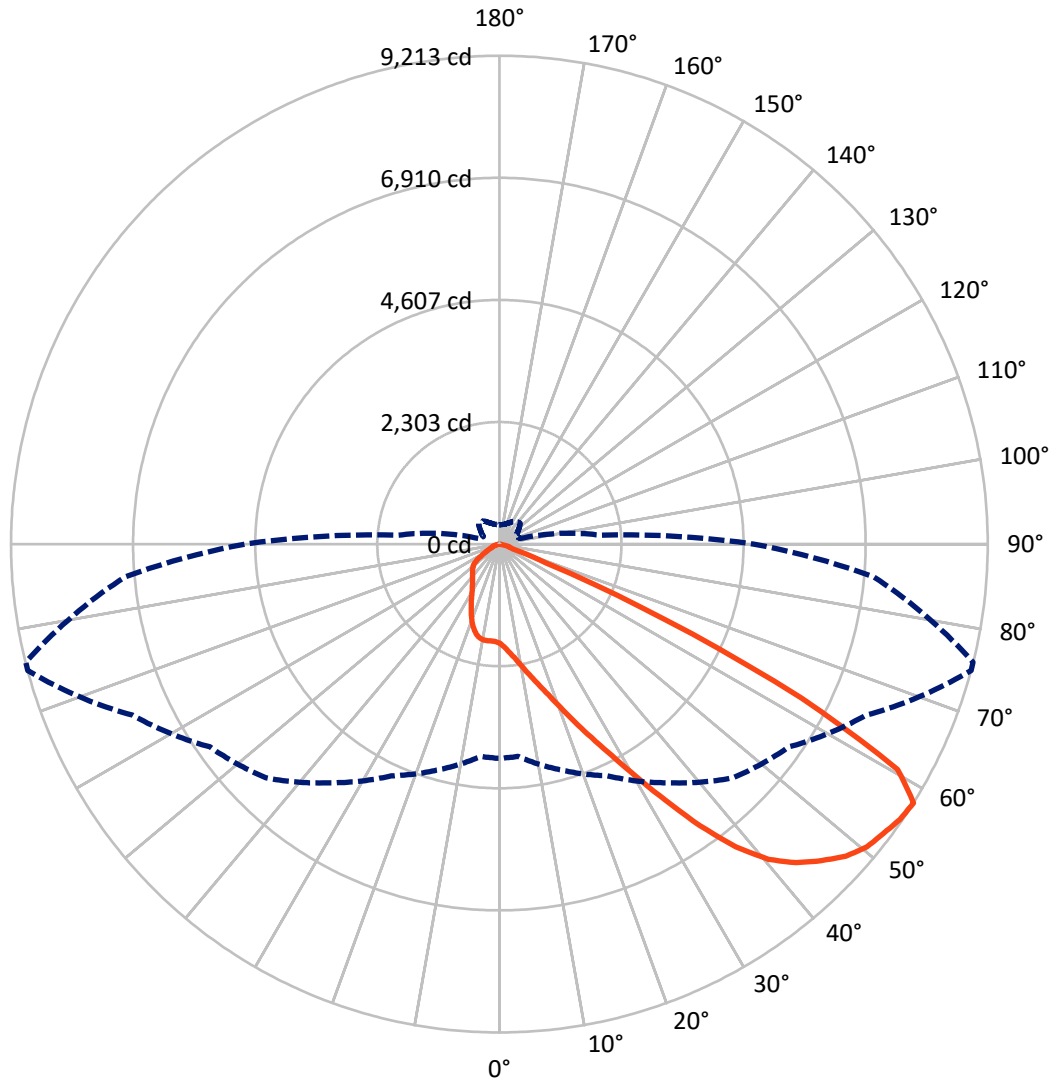
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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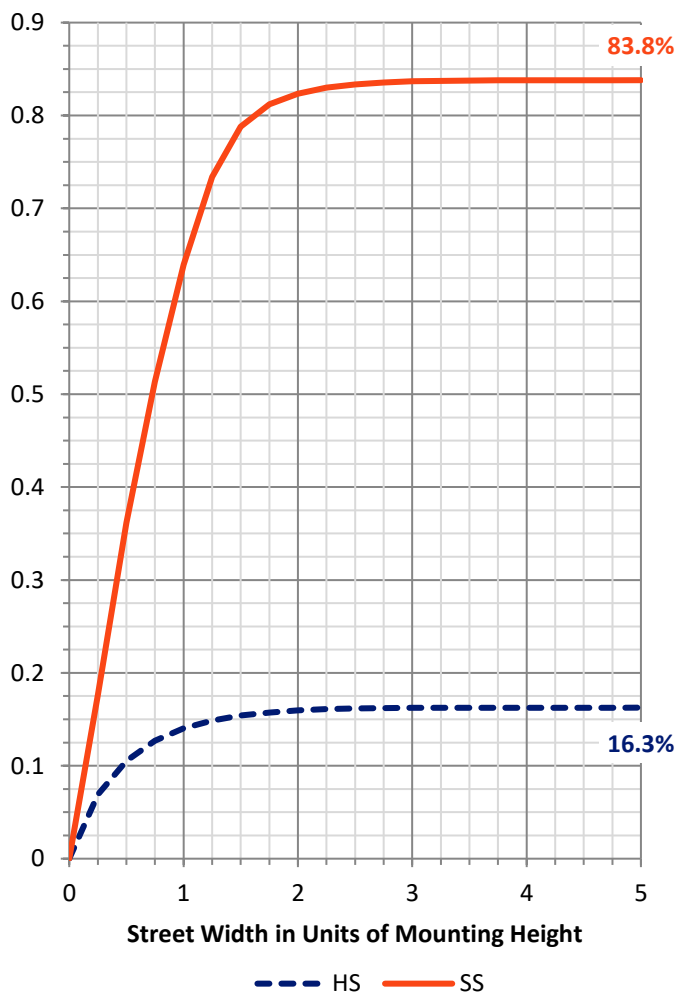
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1835.4 | 0.0 | 1835.4 |
| | % Fixture | 16.3 | 0.0 | 16.3 |
| Street Side | Lumens | 9400.9 | 0.0 | 9400.9 |
| | % Fixture | 83.7 | 0.0 | 83.7 |
| Total | Lumens | 11236.3 | 0.0 | 11236.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 190.7 | 1.7 |
| 10°-20° | 619.5 | 5.5 |
| 20°-30° | 1134.4 | 10.1 |
| 30°-40° | 1882.1 | 16.8 |
| 40°-50° | 2874.4 | 25.6 |
| 50°-60° | 3229.9 | 28.7 |
| 60°-70° | 1191.3 | 10.6 |
| 70°-80° | 113.9 | 1.0 |
| 80°-90° | 0.1 | 0.0 |
| 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° | 11236.3 | 100.0 |
| 0°-180° | 11236.3 | 100.0 |

Coefficient of Utilization



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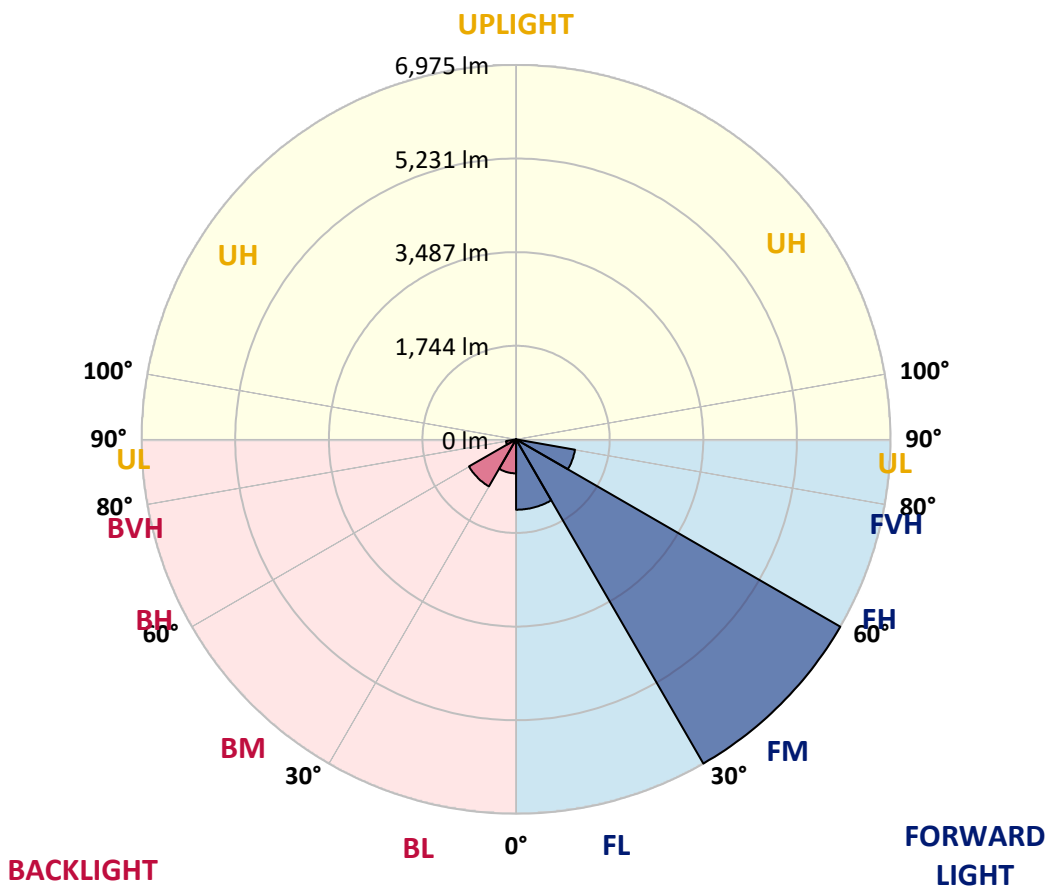
CATALOG NUMBER: GWS-SA5C-830-U-T2-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1311.3 | 11.7 | | | |
| FM (30°-60°) | 6975.0 | 62.1 | | | |
| FH (60°-80°) | 1114.6 | 9.9 | | | G1/1800 |
| FVH (80°-90°) | 0.1 | 0.0 | | | G0/10 |
| BL (0°-30°) | 633.3 | 5.6 | B2/1000 | | |
| BM (30°-60°) | 1011.4 | 9.0 | B2/2500 | | |
| BH (60°-80°) | 190.6 | 1.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| 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° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1874.1 | 1874.1 | 1874.1 | 1874.1 | 1874.1 | 1874.1 | 1874.1 | 1874.1 | 1874.1 | 1874.1 | 1874.1 |
| 2.5° | 2093.7 | 2115.4 | 2108.7 | 2095.1 | 2087.0 | 2058.5 | 2040.9 | 1989.3 | 1952.7 | 1948.6 | 1914.7 |
| 5° | 2358.2 | 2354.1 | 2348.7 | 2332.4 | 2318.8 | 2274.1 | 2221.2 | 2134.4 | 2057.1 | 2047.6 | 1975.8 |
| 7.5° | 2503.3 | 2506.0 | 2508.7 | 2506.0 | 2496.5 | 2462.6 | 2404.3 | 2302.6 | 2184.6 | 2176.5 | 2062.5 |
| 10° | 2562.9 | 2568.4 | 2581.9 | 2607.7 | 2630.7 | 2628.0 | 2594.1 | 2489.7 | 2344.6 | 2331.0 | 2177.8 |
| 12.5° | 2591.4 | 2598.2 | 2619.9 | 2668.7 | 2731.1 | 2779.9 | 2785.3 | 2691.8 | 2531.7 | 2510.0 | 2314.8 |
| 15° | 2630.7 | 2637.5 | 2664.6 | 2728.4 | 2819.2 | 2915.5 | 2977.9 | 2918.2 | 2739.2 | 2716.2 | 2465.3 |
| 17.5° | 2648.4 | 2657.9 | 2697.2 | 2781.3 | 2899.2 | 3047.0 | 3188.1 | 3182.6 | 2984.7 | 2967.0 | 2640.2 |
| 20° | 2682.3 | 2689.0 | 2724.3 | 2815.2 | 2957.5 | 3170.4 | 3407.7 | 3493.2 | 3284.3 | 3258.6 | 2851.8 |
| 22.5° | 2789.4 | 2792.1 | 2808.4 | 2865.3 | 2998.2 | 3259.9 | 3631.5 | 3855.2 | 3638.3 | 3604.4 | 3089.1 |
| 25° | 2964.3 | 2963.0 | 2969.7 | 2979.2 | 3076.9 | 3350.8 | 3847.1 | 4263.4 | 4043.7 | 4007.1 | 3357.6 |
| 27.5° | 3186.7 | 3186.7 | 3203.0 | 3175.9 | 3215.2 | 3463.3 | 4060.0 | 4732.6 | 4515.6 | 4464.1 | 3651.8 |
| 30° | 3448.4 | 3447.1 | 3485.0 | 3441.6 | 3453.9 | 3641.0 | 4289.2 | 5243.8 | 5085.2 | 5021.4 | 3990.8 |
| 32.5° | 3803.7 | 3795.6 | 3839.0 | 3779.3 | 3738.6 | 3909.5 | 4568.5 | 5778.1 | 5767.3 | 5669.6 | 4416.6 |
| 35° | 4252.6 | 4239.0 | 4252.6 | 4194.3 | 4121.0 | 4285.1 | 4934.7 | 6311.0 | 6523.9 | 6420.9 | 4923.8 |
| 37.5° | 4698.7 | 4742.1 | 4757.0 | 4656.7 | 4597.0 | 4761.1 | 5375.4 | 6788.4 | 7246.7 | 7139.6 | 5451.3 |
| 40° | 5224.9 | 5211.3 | 5262.8 | 5150.3 | 5112.3 | 5294.0 | 5806.6 | 7143.7 | 7819.0 | 7717.3 | 5920.5 |
| 42.5° | 5612.7 | 5637.1 | 5700.8 | 5638.4 | 5608.6 | 5779.5 | 6168.7 | 7351.1 | 8216.3 | 8115.9 | 6255.4 |
| 45° | 6077.8 | 6095.4 | 6119.8 | 6068.3 | 6037.1 | 6205.3 | 6430.4 | 7442.0 | 8518.7 | 8410.2 | 6480.6 |
| 47.5° | 6580.9 | 6594.5 | 6594.5 | 6488.7 | 6388.3 | 6457.5 | 6605.3 | 7493.5 | 8796.7 | 8692.3 | 6647.3 |
| 50° | 6941.6 | 6948.4 | 7008.1 | 6933.5 | 6715.1 | 6608.0 | 6685.3 | 7543.7 | 8981.1 | 8883.5 | 6701.6 |
| 52.5° | 6621.6 | 6613.4 | 6810.1 | 6964.7 | 7023.0 | 6810.1 | 6823.6 | 7616.9 | 9070.6 | 8986.5 | 6745.0 |
| 55° | 5576.1 | 5562.5 | 5839.1 | 6214.8 | 6728.7 | 7001.3 | 6990.4 | 7660.3 | 9169.6 | 9118.1 | 6902.3 |
| 57.5° | 4042.4 | 4019.3 | 4404.4 | 4822.1 | 5496.1 | 6235.1 | 6669.0 | 7635.9 | 9213.0 | 9208.9 | 7085.4 |
| 60° | 2430.0 | 2411.1 | 2774.5 | 3213.8 | 3734.6 | 4477.7 | 5197.7 | 6839.9 | 8632.6 | 8640.7 | 6609.4 |
| 62.5° | 1495.7 | 1513.3 | 1841.5 | 2065.3 | 2259.2 | 2482.9 | 2899.2 | 4601.1 | 6395.1 | 6448.0 | 4644.5 |
| 65° | 1006.2 | 1019.7 | 1323.5 | 1605.6 | 1605.6 | 1312.7 | 1126.9 | 2199.5 | 3411.8 | 3322.3 | 2196.8 |
| 67.5° | 675.3 | 690.2 | 930.2 | 1259.8 | 1307.2 | 915.3 | 457.0 | 656.3 | 950.6 | 922.1 | 543.8 |
| 70° | 397.3 | 413.6 | 619.7 | 863.8 | 951.9 | 637.3 | 305.1 | 278.0 | 269.9 | 261.7 | 211.5 |
| 72.5° | 177.6 | 184.4 | 316.0 | 439.4 | 401.4 | 268.5 | 215.6 | 222.4 | 210.2 | 206.1 | 172.2 |
| 75° | 54.2 | 57.0 | 81.4 | 94.9 | 96.3 | 96.3 | 130.2 | 174.9 | 165.4 | 166.8 | 132.9 |
| 77.5° | 13.6 | 13.6 | 21.7 | 20.3 | 10.8 | 9.5 | 24.4 | 39.3 | 40.7 | 36.6 | 27.1 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 82.5° | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1874.1 | 1874.1 | 1874.1 | 1874.1 | 1874.1 | 1874.1 | 1874.1 | 1874.1 | 1874.1 | 1874.1 | 1874.1 |
| 2.5° | 1899.8 | 1864.6 | 1841.5 | 1809.0 | 1785.9 | 1761.5 | 1739.8 | 1722.2 | 1712.7 | 1710.0 | 1711.3 |
| 5° | 1943.2 | 1887.6 | 1833.4 | 1771.0 | 1727.6 | 1686.9 | 1654.4 | 1628.6 | 1616.4 | 1612.3 | 1612.3 |
| 7.5° | 2009.7 | 1932.4 | 1836.1 | 1738.5 | 1665.2 | 1601.5 | 1563.5 | 1535.0 | 1524.2 | 1521.5 | 1513.3 |
| 10° | 2096.5 | 1990.7 | 1832.0 | 1680.1 | 1577.1 | 1510.6 | 1483.5 | 1475.4 | 1479.4 | 1480.8 | 1479.4 |
| 12.5° | 2200.9 | 2051.7 | 1806.3 | 1594.7 | 1483.5 | 1442.8 | 1445.5 | 1467.2 | 1491.7 | 1503.9 | 1506.6 |
| 15° | 2312.1 | 2107.3 | 1747.9 | 1493.0 | 1403.5 | 1402.2 | 1441.5 | 1491.7 | 1539.1 | 1559.5 | 1564.9 |
| 17.5° | 2436.8 | 2152.0 | 1658.4 | 1384.5 | 1334.4 | 1373.7 | 1444.2 | 1521.5 | 1585.2 | 1619.1 | 1625.9 |
| 20° | 2573.8 | 2188.7 | 1544.5 | 1282.8 | 1273.3 | 1343.8 | 1441.5 | 1536.4 | 1615.1 | 1653.0 | 1659.8 |
| 22.5° | 2716.2 | 2214.4 | 1413.0 | 1189.3 | 1217.7 | 1309.9 | 1415.7 | 1507.9 | 1582.5 | 1625.9 | 1631.3 |
| 25° | 2878.9 | 2217.1 | 1278.8 | 1110.6 | 1166.2 | 1263.8 | 1353.3 | 1429.3 | 1491.7 | 1529.6 | 1533.7 |
| 27.5° | 3021.3 | 2184.6 | 1159.4 | 1046.9 | 1118.7 | 1206.9 | 1266.5 | 1308.6 | 1352.0 | 1373.7 | 1375.0 |
| 30° | 3185.4 | 2127.6 | 1046.9 | 995.3 | 1069.9 | 1136.4 | 1166.2 | 1175.7 | 1179.8 | 1183.8 | 1178.4 |
| 32.5° | 3380.6 | 2058.5 | 962.8 | 945.2 | 1014.3 | 1059.1 | 1067.2 | 1048.2 | 1025.2 | 992.6 | 984.5 |
| 35° | 3620.6 | 1996.1 | 893.6 | 896.3 | 953.3 | 980.4 | 973.6 | 933.0 | 888.2 | 848.9 | 842.1 |
| 37.5° | 3881.0 | 1943.2 | 840.7 | 848.9 | 886.9 | 905.8 | 885.5 | 840.7 | 820.4 | 786.5 | 787.9 |
| 40° | 4111.5 | 1899.8 | 793.3 | 801.4 | 819.1 | 836.7 | 804.1 | 774.3 | 812.3 | 809.6 | 812.3 |
| 42.5° | 4275.6 | 1863.2 | 752.6 | 748.5 | 760.7 | 772.9 | 748.5 | 733.6 | 797.4 | 779.7 | 789.2 |
| 45° | 4371.9 | 1829.3 | 718.7 | 694.3 | 713.3 | 735.0 | 718.7 | 699.7 | 721.4 | 640.1 | 633.3 |
| 47.5° | 4437.0 | 1810.3 | 688.9 | 641.4 | 675.3 | 713.3 | 679.4 | 633.3 | 602.1 | 531.6 | 526.1 |
| 50° | 4443.8 | 1800.8 | 653.6 | 587.2 | 630.6 | 671.2 | 631.9 | 568.2 | 523.4 | 492.2 | 488.2 |
| 52.5° | 4479.0 | 1819.8 | 604.8 | 518.0 | 565.5 | 630.6 | 603.4 | 539.7 | 478.7 | 451.6 | 446.1 |
| 55° | 4636.3 | 1899.8 | 523.4 | 423.1 | 492.2 | 599.4 | 580.4 | 481.4 | 423.1 | 406.8 | 402.7 |
| 57.5° | 4799.1 | 1916.1 | 412.2 | 334.9 | 428.5 | 554.6 | 530.2 | 443.4 | 386.5 | 367.5 | 363.4 |
| 60° | 4388.2 | 1578.4 | 309.2 | 276.6 | 378.3 | 512.6 | 490.9 | 420.4 | 353.9 | 330.9 | 326.8 |
| 62.5° | 2883.0 | 853.0 | 245.4 | 234.6 | 318.7 | 433.9 | 447.5 | 379.7 | 316.0 | 291.6 | 290.2 |
| 65° | 1328.9 | 396.0 | 188.5 | 185.8 | 249.5 | 345.8 | 385.1 | 332.2 | 267.1 | 245.4 | 245.4 |
| 67.5° | 362.1 | 196.6 | 147.8 | 137.0 | 169.5 | 231.9 | 280.7 | 248.2 | 189.8 | 164.1 | 162.7 |
| 70° | 180.4 | 158.7 | 132.9 | 118.0 | 122.0 | 143.7 | 165.4 | 138.3 | 96.3 | 78.7 | 77.3 |
| 72.5° | 147.8 | 130.2 | 112.6 | 100.3 | 92.2 | 88.1 | 85.4 | 69.2 | 44.7 | 33.9 | 32.5 |
| 75° | 109.8 | 93.6 | 80.0 | 65.1 | 55.6 | 51.5 | 46.1 | 33.9 | 19.0 | 10.8 | 9.5 |
| 77.5° | 24.4 | 23.1 | 21.7 | 16.3 | 14.9 | 12.2 | 9.5 | 6.8 | 2.7 | 0.0 | 0.0 |
| 80° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 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)