

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: P528350

Luminaire Tested: **GALN-SA3B-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528350  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-830-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11783 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

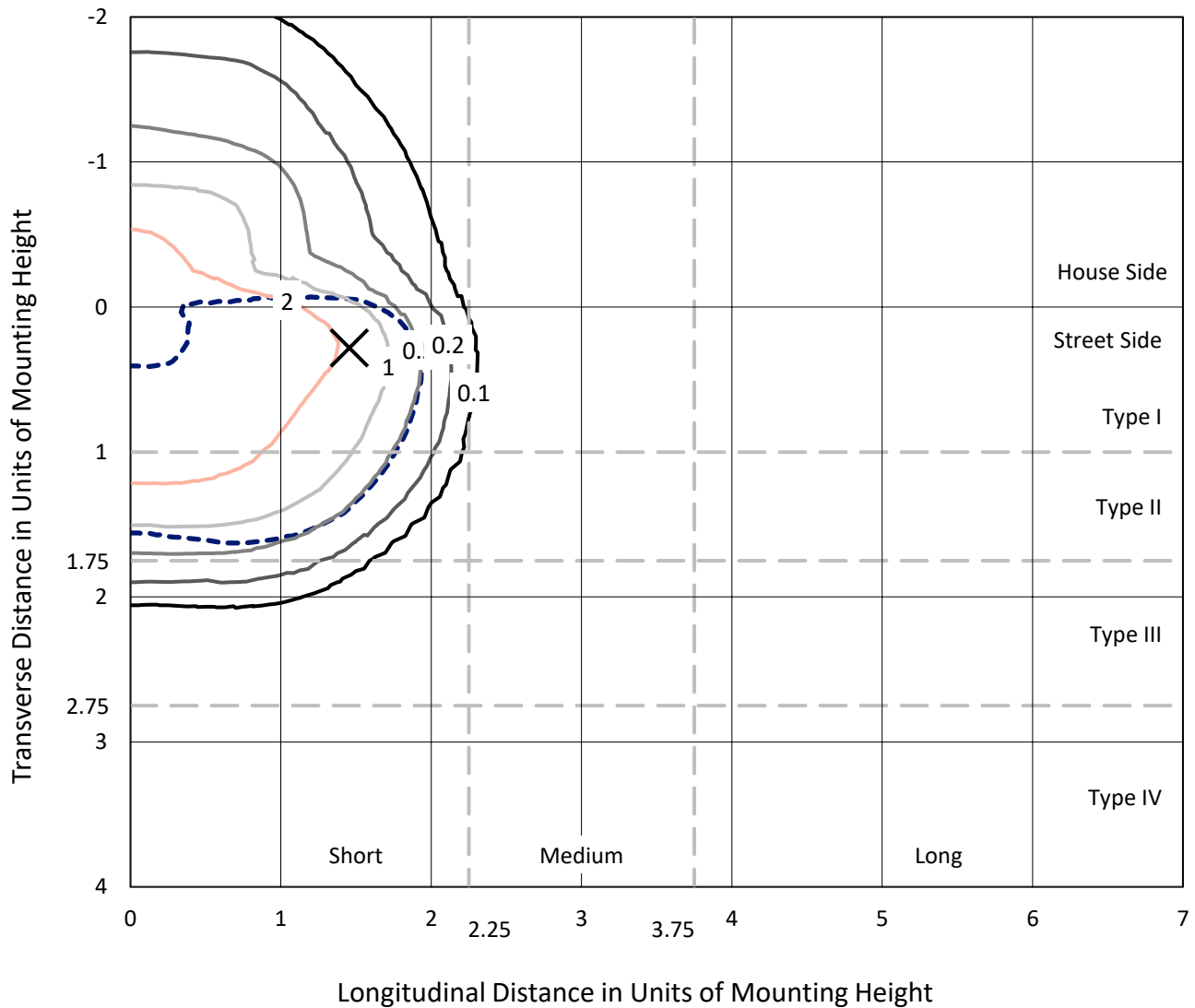
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

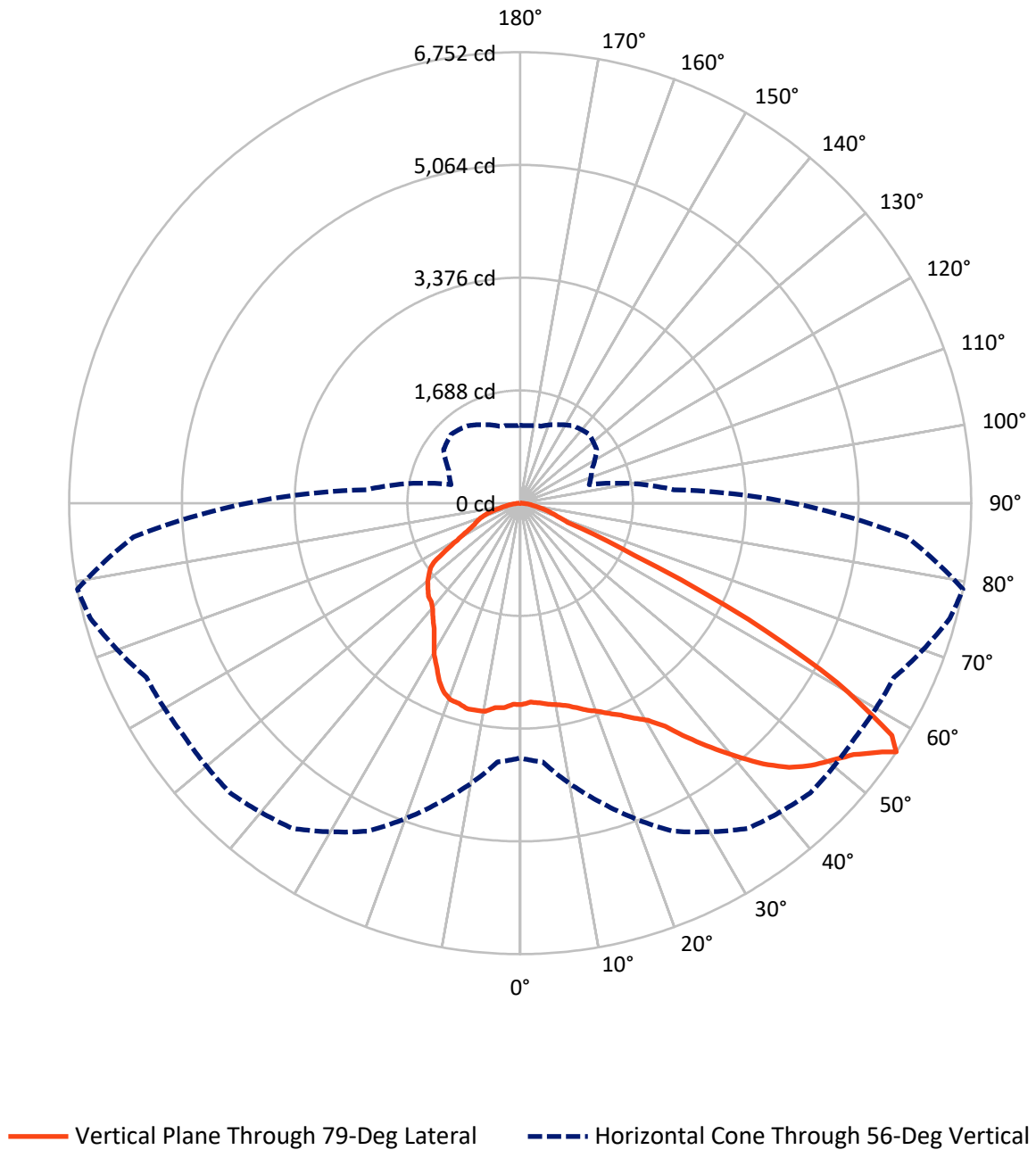
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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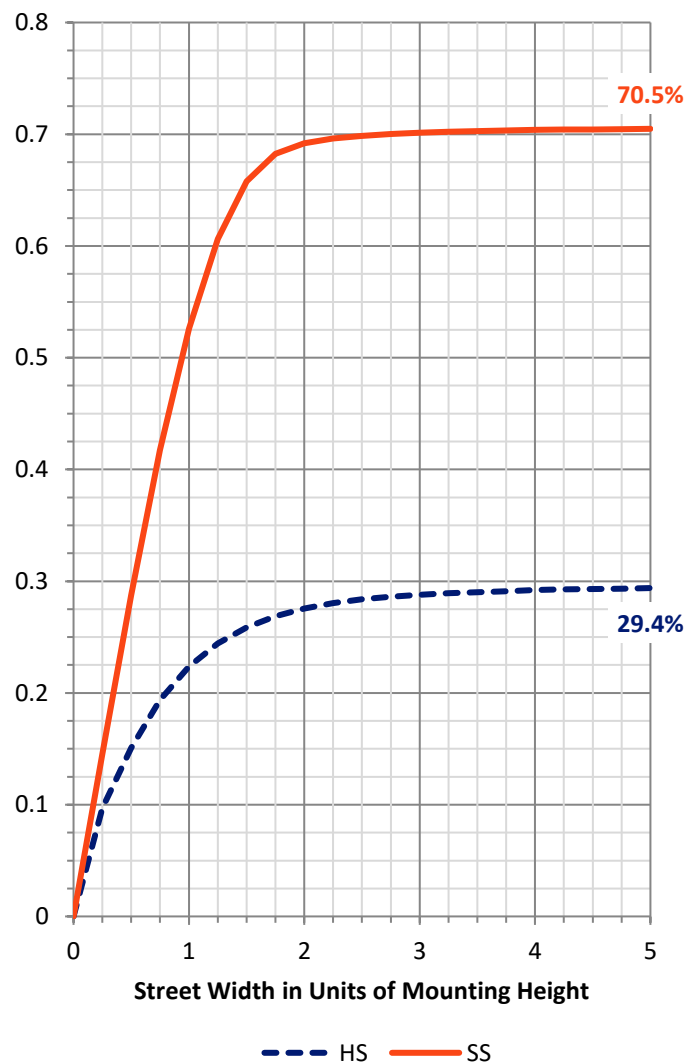
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3479.8   | 0.0    | 3479.8  |
|                    | % Fixture | 29.5     | 0.0    | 29.5    |
| <b>Street Side</b> | Lumens    | 8303.2   | 0.0    | 8303.2  |
|                    | % Fixture | 70.5     | 0.0    | 70.5    |
| <b>Total</b>       | Lumens    | 11783.0  | 0.0    | 11783.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 274.1   | 2.3       |
| 10°-20°   | 750.1   | 6.4       |
| 20°-30°   | 1283.4  | 10.9      |
| 30°-40°   | 1966.9  | 16.7      |
| 40°-50°   | 2658.2  | 22.6      |
| 50°-60°   | 3053.1  | 25.9      |
| 60°-70°   | 1391.7  | 11.8      |
| 70°-80°   | 343.1   | 2.9       |
| 80°-90°   | 62.4    | 0.5       |
| 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°    | 11783.0 | 100.0     |
| 0°-180°   | 11783.0 | 100.0     |

**Coefficient of Utilization**



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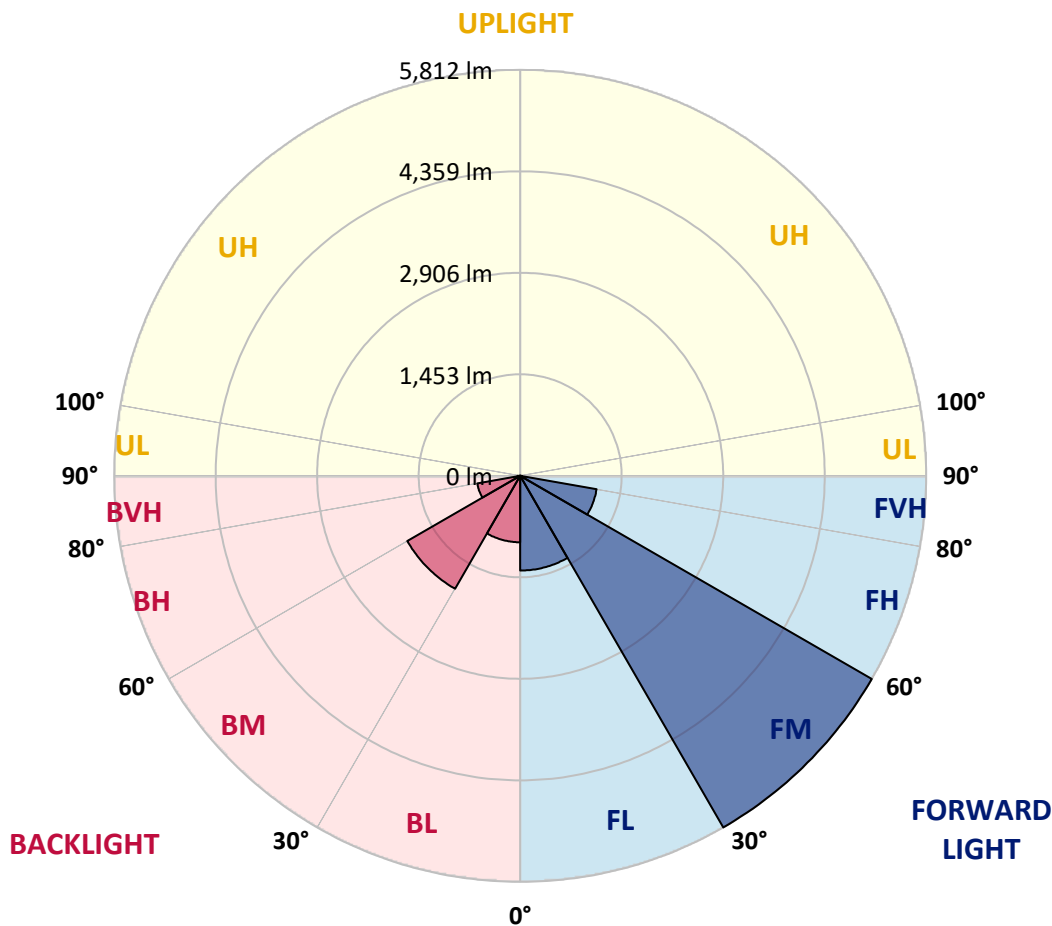
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1355.7 | 11.5      |                         |      |         |
| FM   | (30°-60°)   | 5811.7 | 49.3      |                         |      |         |
| FH   | (60°-80°)   | 1110.9 | 9.4       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 24.9   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 951.9  | 8.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1866.5 | 15.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 623.9  | 5.3       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 37.5   | 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-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 79°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3014.8 | 3014.8 | 3014.8 | 3014.8 | 3014.8 | 3014.8 | 3014.8 | 3014.8 | 3014.8 | 3014.8 | 3014.8 |
| 2.5°  | 2868.0 | 2860.7 | 2878.3 | 2891.5 | 2907.7 | 2928.2 | 2938.5 | 2944.4 | 2995.7 | 2982.5 | 3022.1 |
| 5°    | 2806.4 | 2787.3 | 2800.5 | 2810.8 | 2838.7 | 2863.6 | 2891.5 | 2935.5 | 2982.5 | 3003.1 | 3051.5 |
| 7.5°  | 2752.1 | 2741.8 | 2738.9 | 2746.2 | 2784.4 | 2816.7 | 2865.1 | 2929.7 | 3006.0 | 3039.8 | 3067.6 |
| 10°   | 2662.5 | 2647.9 | 2669.9 | 2718.3 | 2728.6 | 2796.1 | 2851.9 | 2944.4 | 3010.4 | 3069.1 | 3151.3 |
| 12.5° | 2622.9 | 2608.2 | 2612.6 | 2640.5 | 2712.4 | 2777.0 | 2843.1 | 2947.3 | 3086.7 | 3110.2 | 3220.3 |
| 15°   | 2686.0 | 2671.3 | 2675.7 | 2668.4 | 2737.4 | 2771.2 | 2875.4 | 3006.0 | 3139.6 | 3179.2 | 3296.6 |
| 17.5° | 2829.9 | 2831.3 | 2812.3 | 2796.1 | 2780.0 | 2851.9 | 2923.8 | 3041.2 | 3160.1 | 3259.9 | 3348.0 |
| 20°   | 3104.3 | 3055.9 | 3017.7 | 2926.7 | 2901.8 | 2932.6 | 3023.6 | 3136.6 | 3243.8 | 3326.0 | 3425.8 |
| 22.5° | 3315.7 | 3320.1 | 3265.8 | 3116.1 | 3061.8 | 3075.0 | 3152.8 | 3245.2 | 3362.7 | 3421.4 | 3535.9 |
| 25°   | 3622.5 | 3591.6 | 3532.9 | 3414.0 | 3292.2 | 3302.5 | 3359.7 | 3443.4 | 3475.7 | 3516.8 | 3641.5 |
| 27.5° | 3902.8 | 3911.6 | 3795.7 | 3684.1 | 3532.9 | 3503.6 | 3606.3 | 3621.0 | 3566.7 | 3644.5 | 3687.0 |
| 30°   | 4187.6 | 4180.2 | 4103.9 | 3973.3 | 3825.0 | 3830.9 | 3876.4 | 3804.5 | 3729.6 | 3772.2 | 3801.5 |
| 32.5° | 4482.6 | 4398.9 | 4396.0 | 4278.6 | 4165.5 | 4111.2 | 4055.5 | 4090.7 | 3974.7 | 3983.5 | 3955.6 |
| 35°   | 4718.9 | 4730.6 | 4663.1 | 4579.4 | 4523.7 | 4428.3 | 4275.6 | 4338.7 | 4316.7 | 4306.4 | 4186.1 |
| 37.5° | 4890.6 | 4845.1 | 4878.9 | 4851.0 | 4798.1 | 4679.3 | 4520.7 | 4580.9 | 4591.2 | 4641.1 | 4501.7 |
| 40°   | 5031.5 | 5012.4 | 5102.0 | 5116.7 | 5080.0 | 4823.1 | 4538.4 | 4717.4 | 4871.5 | 4980.1 | 4814.3 |
| 42.5° | 5099.0 | 5140.1 | 5234.1 | 5347.1 | 5264.9 | 4990.4 | 4629.4 | 4821.6 | 5165.1 | 5336.8 | 5110.8 |
| 45°   | 5190.0 | 5137.2 | 5276.6 | 5483.6 | 5485.1 | 5131.3 | 4717.4 | 4962.5 | 5394.1 | 5643.6 | 5313.3 |
| 47.5° | 5097.6 | 5124.0 | 5267.8 | 5530.6 | 5598.1 | 5279.6 | 4955.2 | 5162.2 | 5646.5 | 5868.2 | 5501.2 |
| 50°   | 4890.6 | 4943.5 | 5206.2 | 5479.2 | 5683.2 | 5436.6 | 5228.2 | 5377.9 | 5879.9 | 6048.7 | 5532.0 |
| 52.5° | 4674.9 | 4704.2 | 5115.2 | 5518.8 | 5721.4 | 5639.2 | 5593.7 | 5675.9 | 6164.6 | 6252.7 | 5570.2 |
| 55°   | 4087.7 | 4227.2 | 4814.3 | 5501.2 | 5907.8 | 6004.7 | 5969.4 | 6089.8 | 6487.6 | 6575.6 | 5778.6 |
| 56°   | 3816.2 | 3889.6 | 4633.8 | 5419.0 | 5944.5 | 6138.2 | 6120.6 | 6174.9 | 6659.3 | 6751.7 | 5810.9 |
| 57.5° | 3314.2 | 3320.1 | 3951.2 | 5055.0 | 5806.5 | 6177.9 | 6160.2 | 6202.8 | 6625.5 | 6562.4 | 5527.6 |
| 60°   | 2074.0 | 2165.0 | 2689.0 | 3888.1 | 4937.6 | 5731.6 | 5831.5 | 5489.5 | 5586.3 | 5452.8 | 4300.6 |
| 62.5° | 1074.4 | 1061.2 | 1409.1 | 2273.6 | 3277.5 | 4103.9 | 4196.4 | 4180.2 | 4030.5 | 3835.3 | 2809.3 |
| 65°   | 535.7  | 538.7  | 736.8  | 1125.8 | 1679.1 | 2148.8 | 2407.1 | 2435.0 | 2037.3 | 1874.3 | 1332.7 |
| 67.5° | 389.0  | 403.6  | 529.9  | 688.4  | 791.1  | 885.1  | 1084.7 | 1064.1 | 805.8  | 766.2  | 710.4  |
| 70°   | 302.4  | 315.6  | 430.1  | 525.5  | 477.0  | 477.0  | 519.6  | 537.2  | 573.9  | 590.0  | 609.1  |
| 72.5° | 220.2  | 230.4  | 328.8  | 362.5  | 312.6  | 336.1  | 389.0  | 430.1  | 468.2  | 474.1  | 496.1  |
| 75°   | 151.2  | 160.0  | 215.8  | 199.6  | 187.9  | 231.9  | 284.7  | 322.9  | 350.8  | 365.5  | 378.7  |
| 77.5° | 98.3   | 101.3  | 123.3  | 104.2  | 120.4  | 149.7  | 184.9  | 217.2  | 245.1  | 256.9  | 259.8  |
| 80°   | 44.0   | 48.4   | 52.8   | 66.0   | 83.7   | 107.1  | 132.1  | 158.5  | 176.1  | 180.5  | 189.3  |
| 82.5° | 25.0   | 25.0   | 32.3   | 47.0   | 61.6   | 77.8   | 95.4   | 114.5  | 135.0  | 139.4  | 138.0  |
| 85°   | 13.2   | 13.2   | 19.1   | 27.9   | 38.2   | 45.5   | 44.0   | 45.5   | 48.4   | 55.8   | 54.3   |
| 87.5° | 4.4    | 4.4    | 5.9    | 5.9    | 7.3    | 8.8    | 7.3    | 10.3   | 13.2   | 13.2   | 13.2   |
| 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°    | 3014.8 | 3014.8 | 3014.8 | 3014.8 | 3014.8 | 3014.8 | 3014.8 | 3014.8 | 3014.8 | 3014.8 | 3014.8 |
| 2.5°  | 3010.4 | 3023.6 | 3006.0 | 3044.2 | 3044.2 | 3036.8 | 3000.1 | 3011.9 | 3020.7 | 3020.7 | 3028.0 |
| 5°    | 3067.6 | 3063.2 | 3075.0 | 3029.5 | 3001.6 | 2991.3 | 2931.1 | 2901.8 | 2876.8 | 2875.4 | 2853.3 |
| 7.5°  | 3099.9 | 3088.2 | 3083.8 | 3050.0 | 2926.7 | 2851.9 | 2722.7 | 2647.9 | 2631.7 | 2574.5 | 2596.5 |
| 10°   | 3151.3 | 3173.3 | 3151.3 | 2967.8 | 2796.1 | 2624.4 | 2498.1 | 2382.2 | 2336.7 | 2300.0 | 2278.0 |
| 12.5° | 3257.0 | 3246.7 | 3119.0 | 2871.0 | 2630.2 | 2426.2 | 2238.4 | 2116.5 | 2071.0 | 2038.7 | 2035.8 |
| 15°   | 3346.5 | 3295.1 | 3099.9 | 2718.3 | 2371.9 | 2154.7 | 2000.6 | 1914.0 | 1893.4 | 1896.4 | 1909.6 |
| 17.5° | 3377.3 | 3342.1 | 3000.1 | 2559.8 | 2179.6 | 1924.2 | 1852.3 | 1839.1 | 1858.2 | 1880.2 | 1886.1 |
| 20°   | 3425.8 | 3370.0 | 2959.0 | 2344.0 | 1941.9 | 1780.4 | 1776.0 | 1823.0 | 1858.2 | 1890.5 | 1894.9 |
| 22.5° | 3527.1 | 3386.1 | 2825.5 | 2140.0 | 1778.9 | 1737.8 | 1780.4 | 1820.0 | 1874.3 | 1900.8 | 1877.3 |
| 25°   | 3556.4 | 3350.9 | 2637.6 | 1894.9 | 1676.2 | 1711.4 | 1756.9 | 1811.2 | 1849.4 | 1864.1 | 1874.3 |
| 27.5° | 3581.4 | 3296.6 | 2383.7 | 1732.0 | 1643.9 | 1710.0 | 1756.9 | 1802.4 | 1823.0 | 1836.2 | 1847.9 |
| 30°   | 3651.8 | 3280.5 | 2163.5 | 1623.4 | 1623.4 | 1680.6 | 1740.8 | 1752.5 | 1780.4 | 1796.6 | 1817.1 |
| 32.5° | 3687.0 | 3168.9 | 1937.5 | 1554.4 | 1602.8 | 1695.3 | 1699.7 | 1721.7 | 1723.2 | 1736.4 | 1714.4 |
| 35°   | 3779.5 | 3089.7 | 1727.6 | 1504.5 | 1611.6 | 1680.6 | 1702.6 | 1689.4 | 1617.5 | 1582.3 | 1589.6 |
| 37.5° | 3847.0 | 3050.0 | 1576.4 | 1498.6 | 1613.1 | 1696.7 | 1708.5 | 1608.7 | 1533.8 | 1475.1 | 1489.8 |
| 40°   | 4029.0 | 2951.7 | 1461.9 | 1488.3 | 1626.3 | 1714.4 | 1682.1 | 1573.5 | 1438.4 | 1378.2 | 1368.0 |
| 42.5° | 4168.5 | 2881.2 | 1390.0 | 1476.6 | 1636.6 | 1739.3 | 1668.9 | 1503.0 | 1365.0 | 1309.3 | 1323.9 |
| 45°   | 4329.9 | 2865.1 | 1351.8 | 1479.5 | 1654.2 | 1752.5 | 1652.7 | 1448.7 | 1301.9 | 1279.9 | 1275.5 |
| 47.5° | 4387.2 | 2749.1 | 1310.7 | 1454.6 | 1649.8 | 1748.1 | 1598.4 | 1407.6 | 1278.4 | 1281.4 | 1293.1 |
| 50°   | 4291.8 | 2630.2 | 1279.9 | 1403.2 | 1620.4 | 1708.5 | 1513.3 | 1353.3 | 1265.2 | 1301.9 | 1322.5 |
| 52.5° | 4169.9 | 2508.4 | 1216.8 | 1334.2 | 1560.2 | 1646.8 | 1473.6 | 1350.3 | 1252.0 | 1240.3 | 1244.7 |
| 55°   | 4206.6 | 2408.6 | 1128.7 | 1240.3 | 1463.4 | 1532.4 | 1429.6 | 1322.5 | 1219.7 | 1175.7 | 1190.4 |
| 56°   | 4087.7 | 2305.9 | 1071.5 | 1181.6 | 1397.3 | 1459.0 | 1407.6 | 1297.5 | 1193.3 | 1163.9 | 1163.9 |
| 57.5° | 3751.6 | 1960.9 | 996.6  | 1087.6 | 1257.9 | 1331.3 | 1365.0 | 1282.8 | 1163.9 | 1112.6 | 1114.0 |
| 60°   | 2766.7 | 1394.4 | 893.9  | 958.5  | 1042.1 | 1100.8 | 1257.9 | 1241.7 | 1090.6 | 1055.3 | 1042.1 |
| 62.5° | 1705.6 | 1018.6 | 820.5  | 845.4  | 888.0  | 936.4  | 1097.9 | 1124.3 | 1012.8 | 974.6  | 965.8  |
| 65°   | 955.5  | 779.4  | 764.7  | 775.0  | 795.5  | 820.5  | 911.5  | 970.2  | 893.9  | 835.2  | 832.2  |
| 67.5° | 698.7  | 697.2  | 708.9  | 717.7  | 726.5  | 726.5  | 748.6  | 772.0  | 761.8  | 714.8  | 710.4  |
| 70°   | 620.9  | 625.3  | 634.1  | 635.5  | 638.5  | 628.2  | 610.6  | 603.3  | 615.0  | 585.6  | 579.8  |
| 72.5° | 512.3  | 526.9  | 537.2  | 538.7  | 522.5  | 509.3  | 485.8  | 460.9  | 452.1  | 446.2  | 444.7  |
| 75°   | 393.4  | 403.6  | 408.0  | 406.6  | 400.7  | 381.6  | 353.7  | 328.8  | 312.6  | 295.0  | 303.8  |
| 77.5° | 265.7  | 280.3  | 287.7  | 287.7  | 278.9  | 249.5  | 236.3  | 217.2  | 201.1  | 182.0  | 184.9  |
| 80°   | 186.4  | 196.7  | 208.4  | 207.0  | 192.3  | 177.6  | 158.5  | 140.9  | 127.7  | 113.0  | 111.6  |
| 82.5° | 139.4  | 145.3  | 151.2  | 148.2  | 138.0  | 123.3  | 110.1  | 93.9   | 79.3   | 69.0   | 69.0   |
| 85°   | 49.9   | 54.3   | 66.0   | 69.0   | 74.9   | 74.9   | 63.1   | 52.8   | 42.6   | 35.2   | 35.2   |
| 87.5° | 14.7   | 14.7   | 16.1   | 16.1   | 14.7   | 16.1   | 13.2   | 14.7   | 16.1   | 10.3   | 10.3   |
| 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)