

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: P455263

Luminaire Tested: **GALN-SA6B-830-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455263  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6B-830-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19397 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G4

Input Watts (W): 243  
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



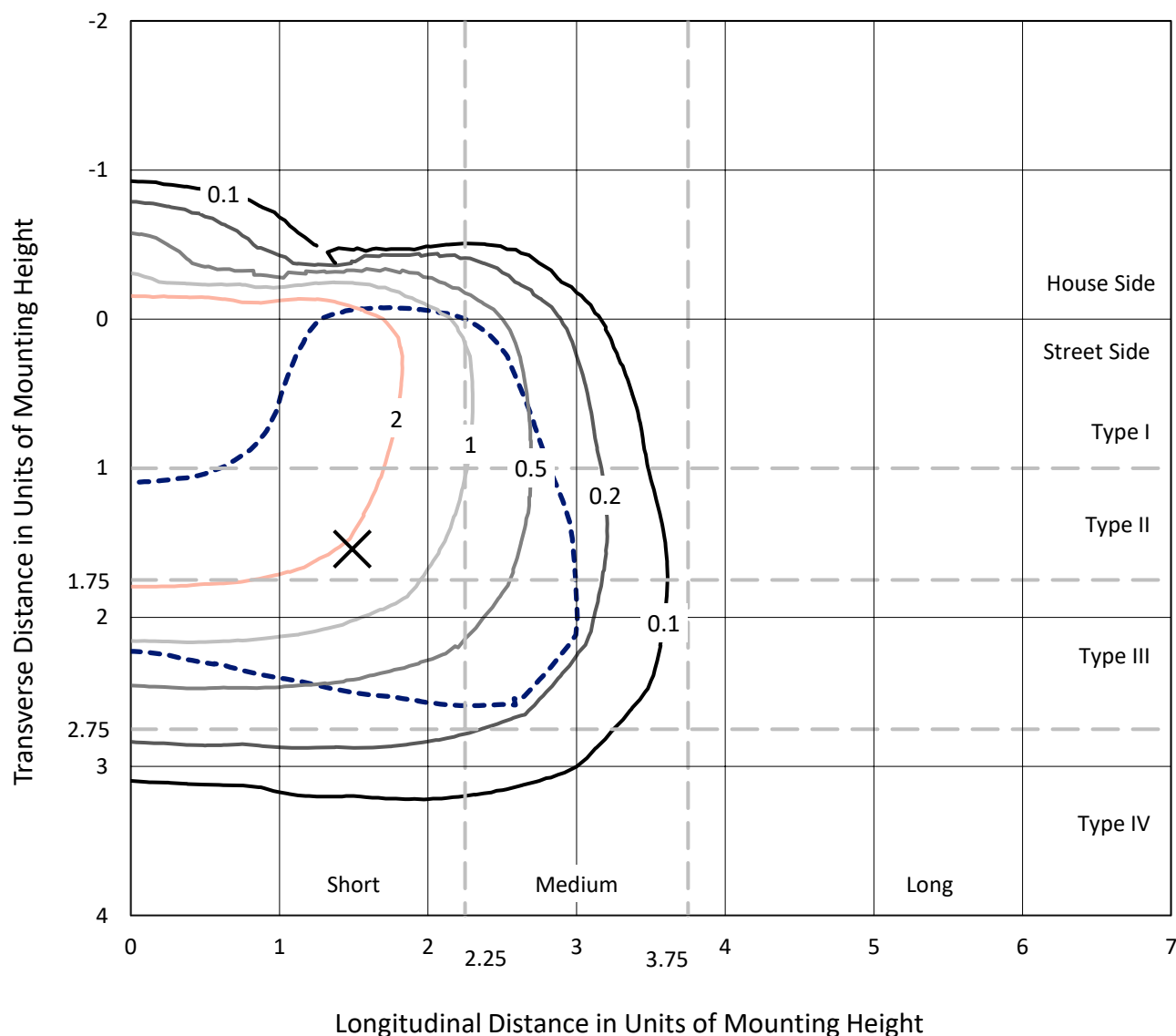
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

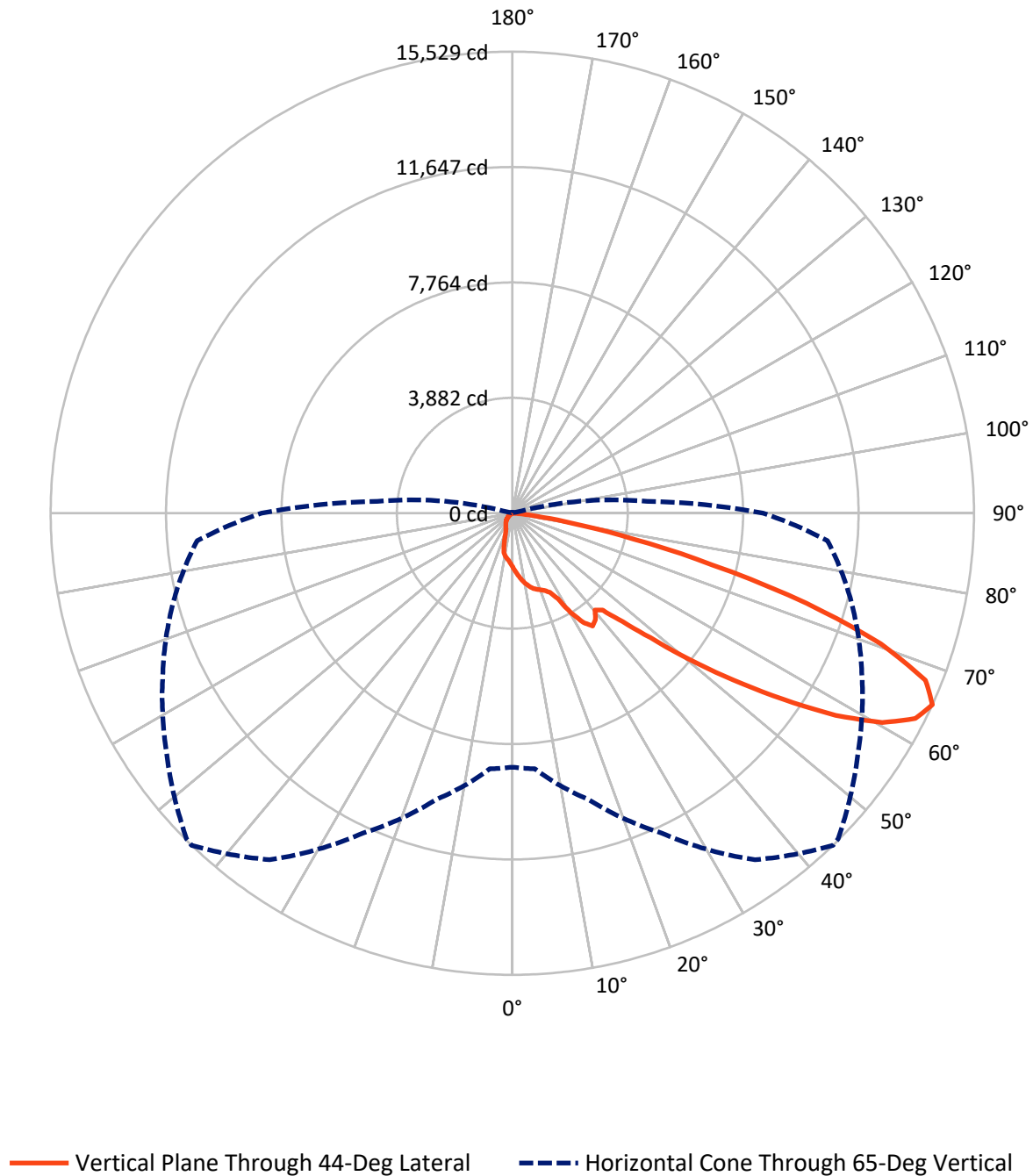
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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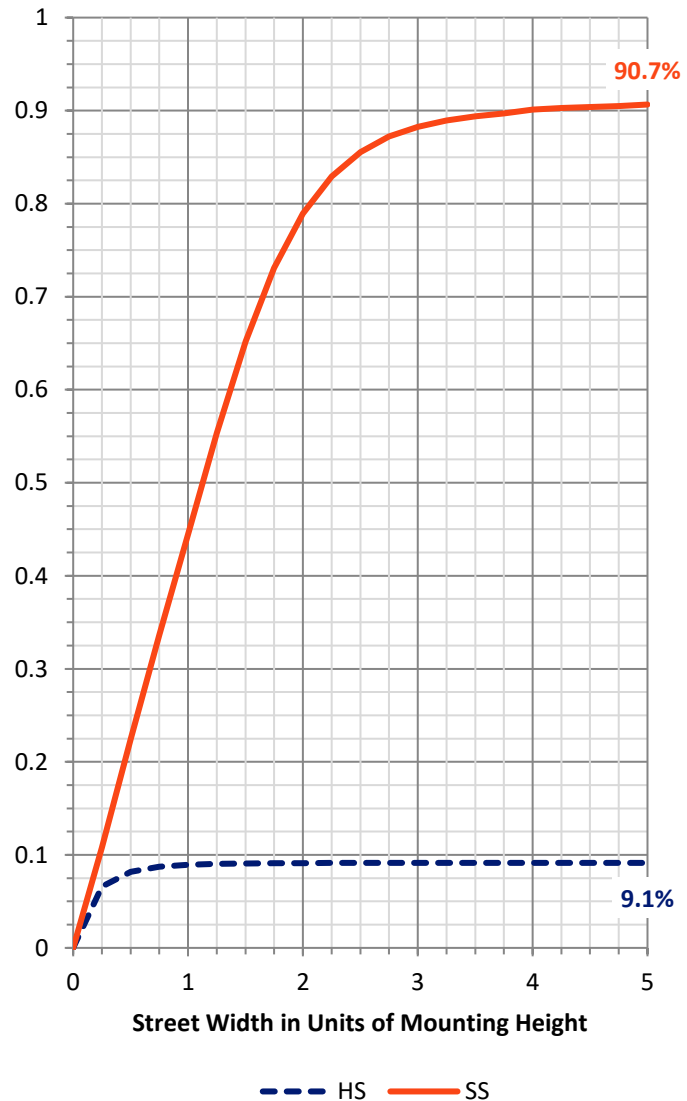
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1787.1   | 0.0    | 1787.1  |
|                    | % Fixture | 9.2      | 0.0    | 9.2     |
| <b>Street Side</b> | Lumens    | 17609.9  | 0.0    | 17609.9 |
|                    | % Fixture | 90.8     | 0.0    | 90.8    |
| <b>Total</b>       | Lumens    | 19397.0  | 0.0    | 19397.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 179.5   | 0.9       |
| 10°-20°   | 540.4   | 2.8       |
| 20°-30°   | 916.3   | 4.7       |
| 30°-40°   | 1523.5  | 7.9       |
| 40°-50°   | 2660.1  | 13.7      |
| 50°-60°   | 5197.0  | 26.8      |
| 60°-70°   | 6029.7  | 31.1      |
| 70°-80°   | 2195.7  | 11.3      |
| 80°-90°   | 154.7   | 0.8       |
| 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°    | 19397.0 | 100.0     |
| 0°-180°   | 19397.0 | 100.0     |

**Coefficient of Utilization**



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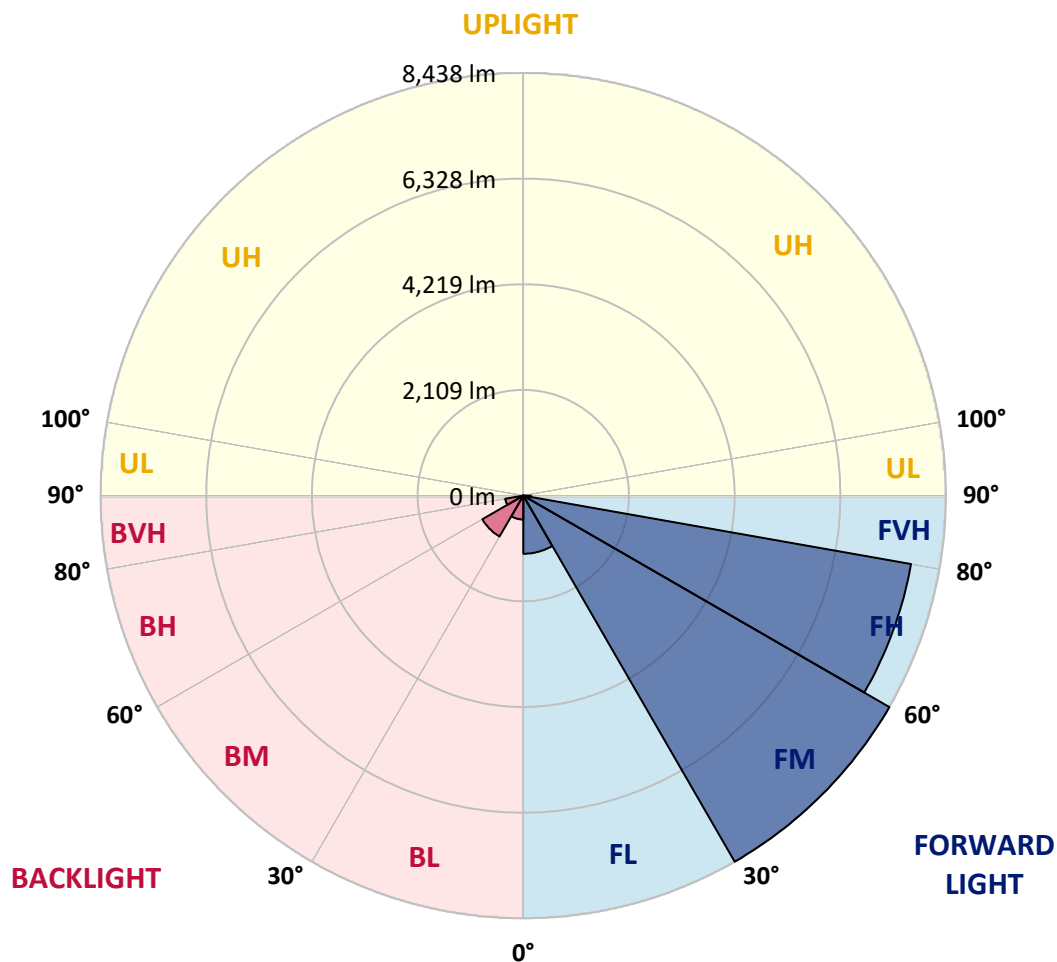
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1160.1 | 6.0       |                         |      |          |
| FM   | (30°-60°)   | 8437.7 | 43.5      |                         |      |          |
| FH   | (60°-80°)   | 7859.4 | 40.5      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 152.6  | 0.8       |                         |      | G2/225   |
| BL   | (0°-30°)    | 476.2  | 2.5       | B1/500                  |      |          |
| BM   | (30°-60°)   | 942.9  | 4.9       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 366.0  | 1.9       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 2.1    | 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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 44°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1805.3  | 1805.3  | 1805.3  | 1805.3  | 1805.3  | 1805.3  | 1805.3  | 1805.3  | 1805.3  | 1805.3  | 1805.3  |
| 2.5°  | 2032.1  | 2023.2  | 2018.7  | 1995.0  | 1977.2  | 1955.0  | 1955.0  | 1926.8  | 1894.2  | 1858.6  | 1826.0  |
| 5°    | 2258.8  | 2244.0  | 2224.7  | 2204.0  | 2162.5  | 2103.2  | 2103.2  | 2043.9  | 1975.7  | 1915.0  | 1848.3  |
| 7.5°  | 2476.7  | 2463.4  | 2430.8  | 2390.7  | 2322.6  | 2260.3  | 2255.9  | 2169.9  | 2088.4  | 1996.5  | 1901.6  |
| 10°   | 2667.9  | 2657.5  | 2629.4  | 2552.3  | 2481.2  | 2399.6  | 2398.1  | 2301.8  | 2207.0  | 2094.3  | 1977.2  |
| 12.5° | 2801.3  | 2802.8  | 2765.7  | 2691.6  | 2599.7  | 2522.7  | 2516.7  | 2421.9  | 2322.6  | 2201.0  | 2057.3  |
| 15°   | 2896.2  | 2896.2  | 2857.6  | 2774.6  | 2691.6  | 2623.4  | 2617.5  | 2534.5  | 2432.2  | 2300.3  | 2144.7  |
| 17.5° | 2922.8  | 2931.7  | 2890.2  | 2816.1  | 2749.4  | 2690.1  | 2688.7  | 2619.0  | 2537.5  | 2410.0  | 2233.6  |
| 20°   | 2912.5  | 2921.4  | 2888.7  | 2830.9  | 2785.0  | 2750.9  | 2746.5  | 2718.3  | 2642.7  | 2522.7  | 2328.5  |
| 22.5° | 2890.2  | 2899.1  | 2875.4  | 2841.3  | 2819.1  | 2829.5  | 2822.1  | 2845.8  | 2805.7  | 2660.5  | 2441.1  |
| 25°   | 2894.7  | 2903.6  | 2885.8  | 2866.5  | 2885.8  | 2949.5  | 2968.8  | 3071.1  | 3035.5  | 2835.4  | 2562.7  |
| 27.5° | 3034.0  | 3051.8  | 3026.6  | 3035.5  | 3103.7  | 3251.9  | 3288.9  | 3465.3  | 3308.2  | 3057.7  | 2752.4  |
| 30°   | 3343.8  | 3331.9  | 3284.5  | 3327.5  | 3564.6  | 3878.8  | 3868.5  | 3840.3  | 3594.3  | 3314.1  | 2977.7  |
| 32.5° | 3625.4  | 3615.0  | 3612.0  | 3797.3  | 4227.1  | 4379.8  | 4372.4  | 4099.7  | 3850.7  | 3607.6  | 3200.0  |
| 35°   | 3739.5  | 3699.5  | 3690.6  | 4139.7  | 4858.6  | 4657.0  | 4611.0  | 4206.4  | 4161.9  | 3927.7  | 3426.8  |
| 37.5° | 4083.4  | 4055.2  | 3917.4  | 4196.0  | 4606.6  | 4539.9  | 4504.3  | 4390.2  | 4493.9  | 4210.8  | 3683.2  |
| 40°   | 4791.9  | 4713.3  | 4588.8  | 4316.1  | 4249.4  | 4277.5  | 4313.1  | 4625.9  | 4886.7  | 4597.7  | 4025.6  |
| 42.5° | 5672.3  | 5654.5  | 5423.3  | 4914.9  | 4415.4  | 4453.9  | 4499.9  | 5117.9  | 5451.4  | 5180.2  | 4584.3  |
| 45°   | 6729.0  | 6754.2  | 6420.8  | 5820.5  | 5165.4  | 5198.0  | 5264.7  | 5844.2  | 6216.2  | 6085.8  | 5463.3  |
| 47.5° | 7689.5  | 7670.2  | 7557.6  | 6933.6  | 6328.9  | 6256.2  | 6364.4  | 6776.5  | 7274.5  | 7295.2  | 6554.2  |
| 50°   | 8655.9  | 8758.1  | 8590.7  | 8346.1  | 7897.0  | 7744.3  | 7704.3  | 7905.9  | 8664.8  | 8565.5  | 7864.4  |
| 52.5° | 10044.7 | 10098.0 | 9783.8  | 9721.5  | 9823.8  | 9328.8  | 9288.8  | 9337.7  | 10016.5 | 9675.6  | 8845.6  |
| 55°   | 10917.7 | 10886.5 | 10769.4 | 11255.6 | 11660.2 | 11042.2 | 10991.8 | 10794.6 | 11138.5 | 10459.7 | 9789.7  |
| 57.5° | 11193.3 | 11237.8 | 11510.5 | 12389.5 | 13346.9 | 12822.2 | 12730.4 | 12170.1 | 11947.8 | 11190.4 | 10658.3 |
| 60°   | 11070.3 | 11151.8 | 11740.3 | 13047.5 | 14375.6 | 14297.0 | 14218.5 | 13277.3 | 12528.8 | 11801.0 | 11267.5 |
| 62.5° | 10194.4 | 10308.5 | 11249.7 | 12930.4 | 14723.9 | 15214.5 | 15116.6 | 13968.0 | 12915.6 | 12097.5 | 11374.2 |
| 65°   | 8543.2  | 8627.7  | 9979.4  | 11867.7 | 14228.8 | 15528.7 | 15493.1 | 14184.4 | 12976.4 | 11826.2 | 10643.5 |
| 67.5° | 6090.2  | 6377.8  | 7630.2  | 10001.7 | 12764.4 | 14992.1 | 15052.9 | 13925.0 | 12405.8 | 10653.8 | 8814.5  |
| 70°   | 3828.4  | 4024.1  | 4922.3  | 7160.4  | 10232.9 | 13152.8 | 13352.9 | 12737.8 | 10766.5 | 8304.6  | 5900.5  |
| 72.5° | 1826.0  | 1971.3  | 2611.6  | 4532.5  | 7222.6  | 10348.5 | 10507.1 | 10456.7 | 8325.3  | 5232.1  | 3044.4  |
| 75°   | 813.7   | 868.6   | 1246.5  | 2313.7  | 4662.9  | 6955.8  | 7366.4  | 7434.6  | 5202.4  | 2559.7  | 1184.3  |
| 77.5° | 415.0   | 416.5   | 584.0   | 1120.5  | 2328.5  | 4150.1  | 4231.6  | 4470.2  | 2820.6  | 1127.9  | 412.0   |
| 80°   | 220.8   | 235.7   | 309.8   | 529.1   | 1208.0  | 2043.9  | 2033.5  | 2235.1  | 1251.0  | 552.8   | 137.8   |
| 82.5° | 99.3    | 109.7   | 174.9   | 277.2   | 589.9   | 775.2   | 835.9   | 914.5   | 536.5   | 352.8   | 60.8    |
| 85°   | 29.6    | 35.6    | 86.0    | 139.3   | 213.4   | 223.8   | 250.5   | 323.1   | 303.8   | 250.5   | 31.1    |
| 87.5° | 4.4     | 4.4     | 35.6    | 38.5    | 31.1    | 40.0    | 41.5    | 45.9    | 97.8    | 91.9    | 16.3    |
| 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°    | 1805.3 | 1805.3 | 1805.3 | 1805.3 | 1805.3 | 1805.3 | 1805.3 | 1805.3 | 1805.3 | 1805.3 | 1805.3 |
| 2.5°  | 1808.2 | 1797.9 | 1760.8 | 1729.7 | 1703.0 | 1686.7 | 1667.4 | 1655.6 | 1649.7 | 1645.2 | 1646.7 |
| 5°    | 1815.7 | 1790.5 | 1726.7 | 1676.3 | 1637.8 | 1596.3 | 1568.1 | 1551.8 | 1544.4 | 1532.6 | 1532.6 |
| 7.5°  | 1857.2 | 1817.1 | 1728.2 | 1651.1 | 1584.4 | 1528.1 | 1474.8 | 1455.5 | 1442.2 | 1439.2 | 1436.2 |
| 10°   | 1916.4 | 1866.1 | 1744.5 | 1637.8 | 1542.9 | 1465.9 | 1390.3 | 1323.6 | 1271.7 | 1240.6 | 1236.1 |
| 12.5° | 1990.6 | 1917.9 | 1769.7 | 1628.9 | 1507.4 | 1371.0 | 1170.9 | 1036.0 | 945.6  | 917.5  | 921.9  |
| 15°   | 2058.7 | 1980.2 | 1794.9 | 1621.5 | 1442.2 | 1136.8 | 910.1  | 755.9  | 710.0  | 705.5  | 707.0  |
| 17.5° | 2140.3 | 2046.9 | 1824.6 | 1611.1 | 1262.8 | 868.6  | 675.9  | 634.4  | 643.3  | 658.1  | 656.6  |
| 20°   | 2224.7 | 2118.0 | 1860.1 | 1548.9 | 1007.9 | 653.6  | 597.3  | 601.8  | 615.1  | 628.4  | 631.4  |
| 22.5° | 2315.1 | 2199.5 | 1901.6 | 1399.2 | 769.2  | 569.2  | 566.2  | 572.1  | 585.5  | 600.3  | 603.2  |
| 25°   | 2439.7 | 2301.8 | 1932.7 | 1203.5 | 582.5  | 526.2  | 532.1  | 542.5  | 554.3  | 570.6  | 573.6  |
| 27.5° | 2599.7 | 2439.7 | 1949.1 | 948.6  | 503.9  | 487.6  | 489.1  | 503.9  | 518.8  | 533.6  | 533.6  |
| 30°   | 2807.2 | 2604.2 | 1916.4 | 717.4  | 465.4  | 450.6  | 444.7  | 453.5  | 472.8  | 487.6  | 489.1  |
| 32.5° | 2992.5 | 2759.8 | 1830.5 | 548.4  | 437.2  | 416.5  | 401.7  | 403.2  | 410.6  | 419.5  | 420.9  |
| 35°   | 3177.8 | 2911.0 | 1683.7 | 461.0  | 407.6  | 383.9  | 361.6  | 349.8  | 343.9  | 339.4  | 343.9  |
| 37.5° | 3414.9 | 3099.2 | 1488.1 | 419.5  | 382.4  | 352.8  | 321.6  | 296.4  | 275.7  | 262.3  | 265.3  |
| 40°   | 3720.2 | 3360.1 | 1256.9 | 392.8  | 358.7  | 323.1  | 281.6  | 249.0  | 213.4  | 201.6  | 195.6  |
| 42.5° | 4224.2 | 3755.8 | 1013.8 | 370.5  | 335.0  | 292.0  | 240.1  | 195.6  | 163.0  | 151.2  | 154.1  |
| 45°   | 5020.1 | 4255.3 | 781.1  | 346.8  | 311.3  | 257.9  | 201.6  | 154.1  | 127.5  | 121.5  | 124.5  |
| 47.5° | 6075.4 | 4901.5 | 601.8  | 320.1  | 281.6  | 220.8  | 158.6  | 121.5  | 105.2  | 103.8  | 102.3  |
| 50°   | 7068.5 | 5503.3 | 502.5  | 290.5  | 246.0  | 183.8  | 130.4  | 102.3  | 91.9   | 90.4   | 90.4   |
| 52.5° | 7966.7 | 5934.6 | 409.1  | 256.4  | 207.5  | 151.2  | 109.7  | 90.4   | 81.5   | 77.1   | 77.1   |
| 55°   | 8765.5 | 6216.2 | 332.0  | 214.9  | 163.0  | 120.1  | 94.9   | 81.5   | 71.1   | 65.2   | 63.7   |
| 57.5° | 9368.8 | 6250.3 | 249.0  | 171.9  | 121.5  | 93.4   | 81.5   | 71.1   | 59.3   | 51.9   | 48.9   |
| 60°   | 9626.7 | 5955.4 | 183.8  | 130.4  | 90.4   | 74.1   | 65.2   | 57.8   | 44.5   | 37.1   | 35.6   |
| 62.5° | 9367.3 | 5381.8 | 136.4  | 99.3   | 69.7   | 54.8   | 45.9   | 43.0   | 31.1   | 22.2   | 20.8   |
| 65°   | 8438.0 | 4553.2 | 108.2  | 75.6   | 51.9   | 40.0   | 29.6   | 28.2   | 19.3   | 10.4   | 8.9    |
| 67.5° | 6760.2 | 3566.1 | 86.0   | 56.3   | 37.1   | 26.7   | 19.3   | 17.8   | 10.4   | 3.0    | 3.0    |
| 70°   | 4396.1 | 2279.6 | 69.7   | 41.5   | 23.7   | 17.8   | 11.9   | 8.9    | 5.9    | 1.5    | 0.0    |
| 72.5° | 2174.3 | 1065.7 | 56.3   | 32.6   | 16.3   | 8.9    | 4.4    | 3.0    | 4.4    | 0.0    | 0.0    |
| 75°   | 843.4  | 379.4  | 41.5   | 22.2   | 8.9    | 4.4    | 3.0    | 0.0    | 1.5    | 0.0    | 0.0    |
| 77.5° | 280.1  | 126.0  | 25.2   | 11.9   | 5.9    | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 103.8  | 48.9   | 13.3   | 7.4    | 3.0    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 41.5   | 19.3   | 8.9    | 5.9    | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 20.8   | 11.9   | 5.9    | 4.4    | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 14.8   | 8.9    | 5.9    | 4.4    | 3.0    | 1.5    | 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)