

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: P193176

Luminaire Tested: **GLEON-AF-08-LED-E1-T3-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193176  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-08-LED-E1-T3-7030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30405.7 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 257  
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

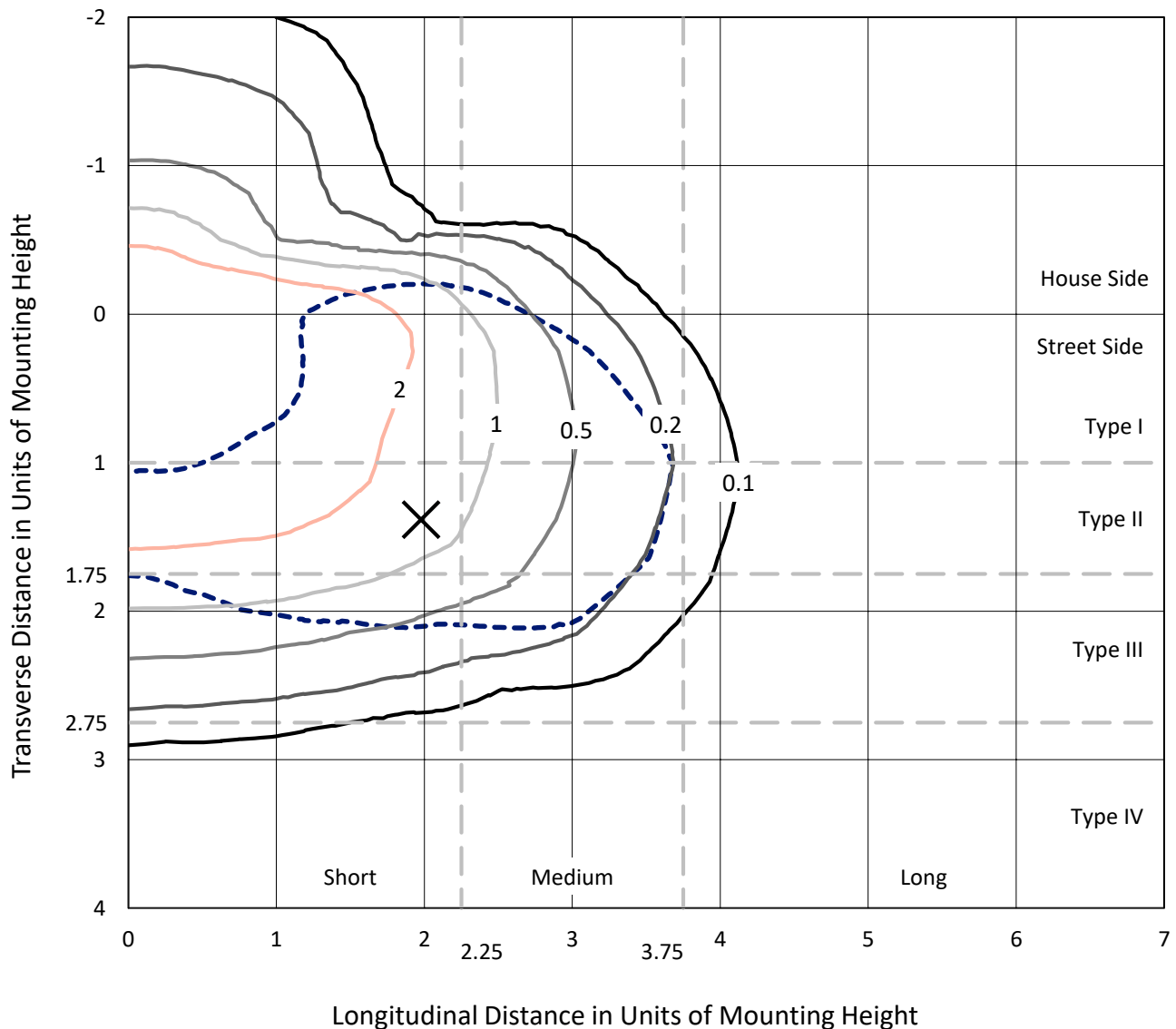


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

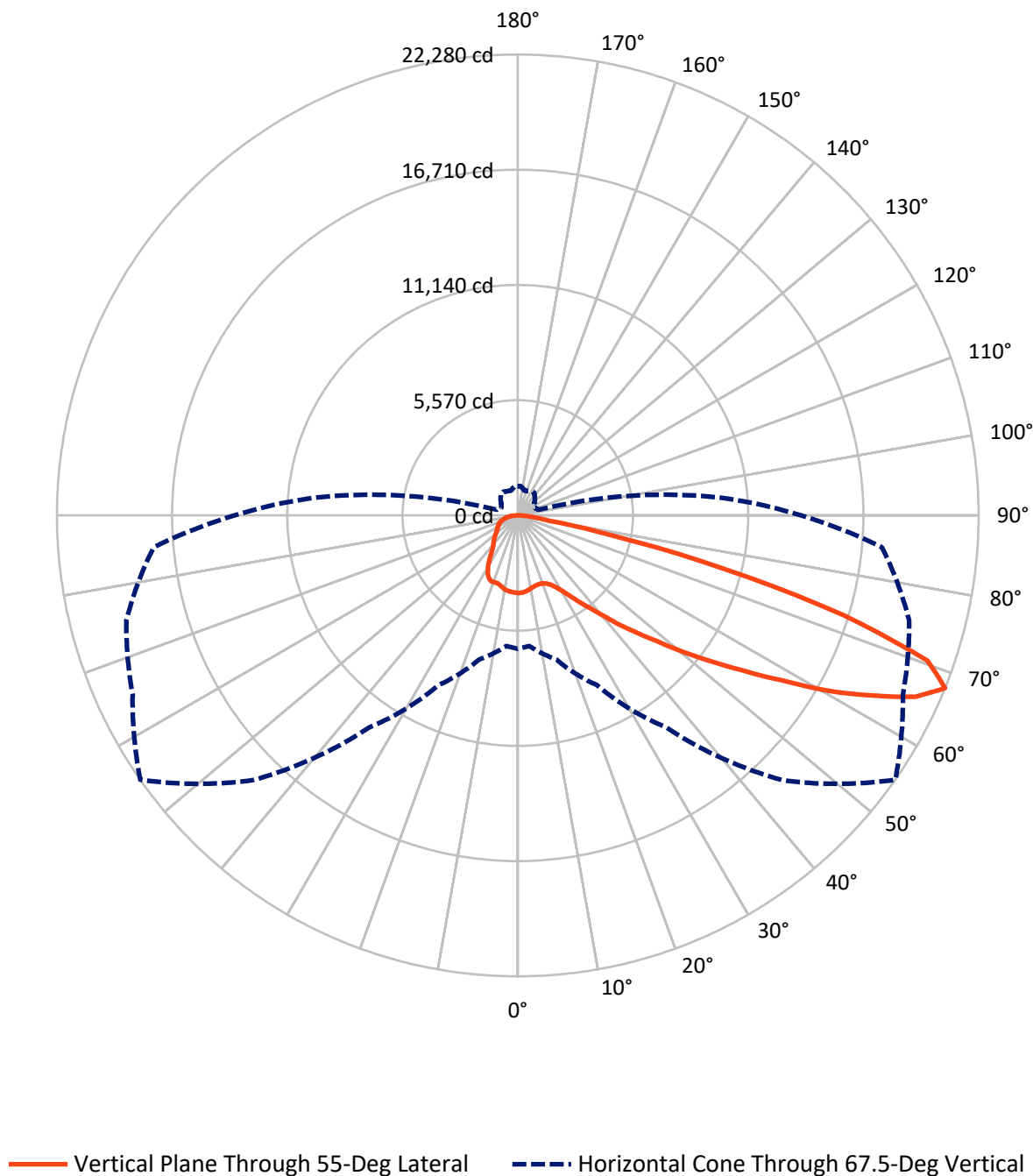


Based on 30 foot mounting height. Maximum calculated value = 4.3 fc  
Type III - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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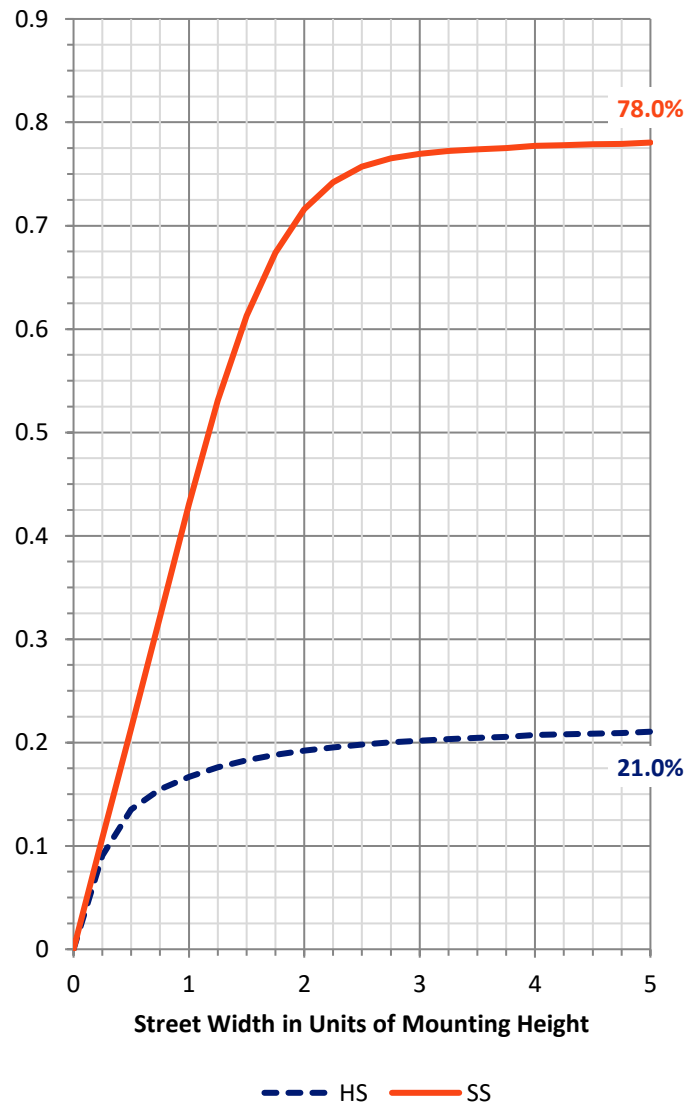
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6568.3   | 0.0    | 6568.3  |
|                    | % Fixture | 21.6     | 0.0    | 21.6    |
| <b>Street Side</b> | Lumens    | 23837.5  | 0.0    | 23837.5 |
|                    | % Fixture | 78.4     | 0.0    | 78.4    |
| <b>Total</b>       | Lumens    | 30405.7  | 0.0    | 30405.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 350.0   | 1.2       |
| 10°-20°   | 991.1   | 3.3       |
| 20°-30°   | 1660.3  | 5.5       |
| 30°-40°   | 2730.2  | 9.0       |
| 40°-50°   | 4595.8  | 15.1      |
| 50°-60°   | 7233.5  | 23.8      |
| 60°-70°   | 8632.4  | 28.4      |
| 70°-80°   | 3706.9  | 12.2      |
| 80°-90°   | 505.4   | 1.7       |
| 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°    | 30405.7 | 100.0     |
| 0°-180°   | 30405.7 | 100.0     |

**Coefficient of Utilization**



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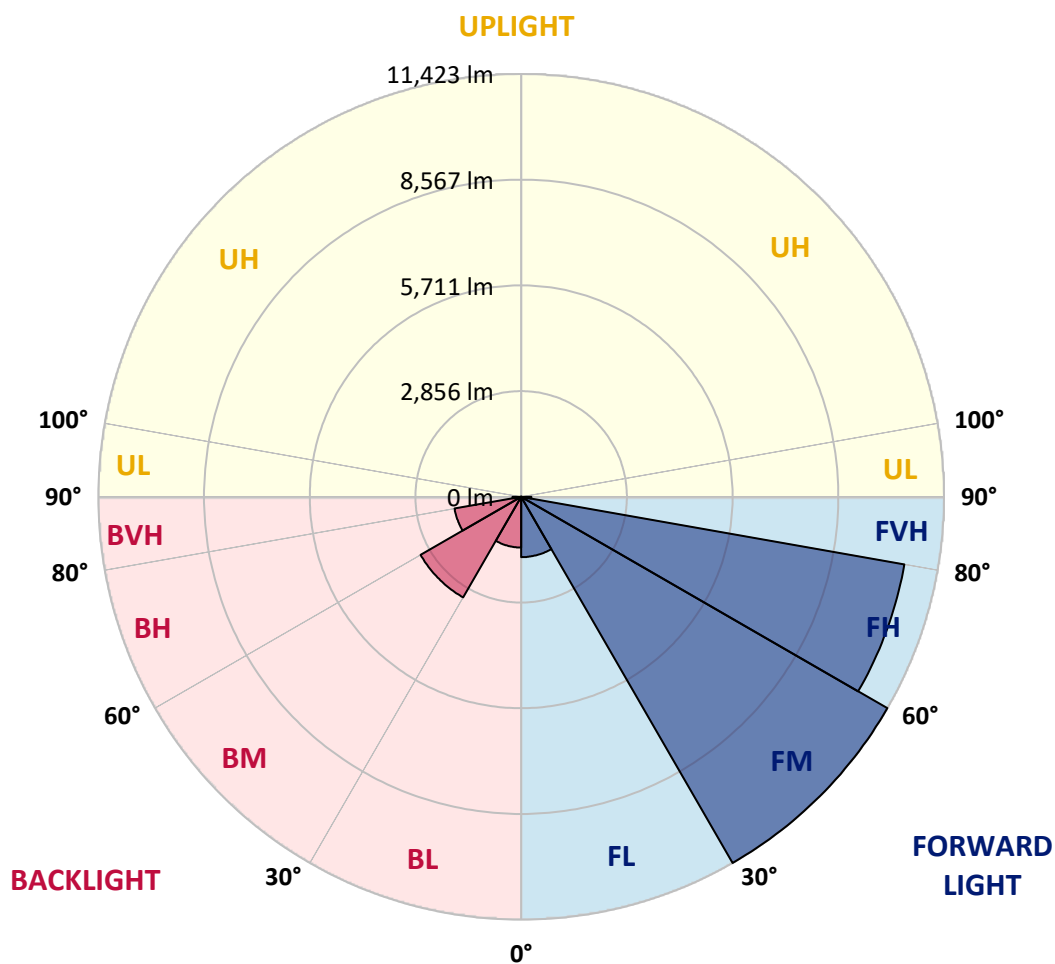
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1629.8  | 5.4       |                         |      |          |
| FM   | (30°-60°)   | 11422.7 | 37.6      |                         |      |          |
| FH   | (60°-80°)   | 10511.4 | 34.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 273.6   | 0.9       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1371.6  | 4.5       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3136.9  | 10.3      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1827.9  | 6.0       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 231.8   | 0.8       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3749.3  | 3749.3  | 3749.3  | 3749.3  | 3749.3  | 3749.3  | 3749.3  | 3749.3  | 3749.3  | 3749.3  | 3749.3  |
| 2.5°  | 3717.0  | 3718.5  | 3721.5  | 3733.2  | 3743.4  | 3740.6  | 3742.0  | 3736.1  | 3734.7  | 3725.8  | 3734.7  |
| 5°    | 3670.0  | 3674.5  | 3675.9  | 3695.0  | 3706.7  | 3709.7  | 3705.3  | 3698.0  | 3689.1  | 3680.3  | 3684.8  |
| 7.5°  | 3562.8  | 3574.6  | 3576.0  | 3602.5  | 3621.6  | 3646.5  | 3648.0  | 3649.5  | 3645.1  | 3639.2  | 3648.0  |
| 10°   | 3495.3  | 3498.3  | 3496.8  | 3515.9  | 3530.5  | 3558.5  | 3574.6  | 3602.5  | 3614.3  | 3617.1  | 3623.0  |
| 12.5° | 3490.9  | 3488.0  | 3483.5  | 3483.5  | 3479.2  | 3490.9  | 3520.3  | 3559.8  | 3587.8  | 3596.6  | 3603.9  |
| 15°   | 3538.0  | 3536.4  | 3521.8  | 3499.7  | 3471.8  | 3463.0  | 3488.0  | 3532.1  | 3568.7  | 3587.8  | 3595.1  |
| 17.5° | 3643.6  | 3634.8  | 3611.3  | 3561.5  | 3501.2  | 3477.7  | 3480.6  | 3517.3  | 3559.8  | 3584.9  | 3592.2  |
| 20°   | 3837.5  | 3837.5  | 3787.6  | 3693.5  | 3586.3  | 3530.5  | 3504.1  | 3526.2  | 3567.2  | 3601.0  | 3611.3  |
| 22.5° | 4172.3  | 4175.3  | 4091.5  | 3937.3  | 3756.7  | 3637.8  | 3571.6  | 3567.2  | 3615.7  | 3653.8  | 3665.6  |
| 25°   | 4646.7  | 4634.9  | 4517.5  | 4297.1  | 4022.5  | 3825.7  | 3711.2  | 3684.8  | 3725.8  | 3768.5  | 3783.1  |
| 27.5° | 5198.9  | 5156.3  | 5016.7  | 4750.9  | 4395.5  | 4107.7  | 3931.4  | 3888.9  | 3928.5  | 3977.0  | 3991.7  |
| 30°   | 5745.2  | 5701.1  | 5535.2  | 5244.5  | 4849.4  | 4485.1  | 4232.4  | 4163.6  | 4219.3  | 4288.3  | 4297.1  |
| 32.5° | 6291.4  | 6291.4  | 6106.5  | 5767.2  | 5336.9  | 4936.0  | 4633.4  | 4551.2  | 4643.7  | 4727.4  | 4746.6  |
| 35°   | 6945.1  | 6948.1  | 6768.8  | 6360.5  | 5898.0  | 5473.6  | 5140.1  | 5079.9  | 5219.5  | 5278.2  | 5323.7  |
| 37.5° | 7748.3  | 7764.5  | 7534.0  | 7040.5  | 6533.8  | 6087.4  | 5690.9  | 5608.6  | 5748.1  | 5908.2  | 6055.0  |
| 40°   | 8616.3  | 8637.0  | 8382.8  | 7774.8  | 7268.2  | 6801.2  | 6372.3  | 6224.0  | 6456.0  | 6761.5  | 6951.0  |
| 42.5° | 9444.6  | 9550.4  | 9305.1  | 8679.4  | 8134.7  | 7651.4  | 7216.8  | 7000.9  | 7291.6  | 7752.8  | 7917.3  |
| 45°   | 10641.6 | 10717.9 | 10290.6 | 9723.6  | 9211.1  | 8670.7  | 8095.0  | 7867.3  | 8274.2  | 8855.7  | 8889.6  |
| 47.5° | 11439.0 | 11381.7 | 11164.3 | 10811.9 | 10487.4 | 9982.2  | 9115.7  | 8866.0  | 9406.4  | 10090.8 | 9901.4  |
| 50°   | 11863.5 | 11881.1 | 11851.7 | 11872.2 | 11884.0 | 11566.7 | 10366.9 | 10024.7 | 10669.5 | 11496.3 | 11060.1 |
| 52.5° | 12260.0 | 12142.4 | 12239.4 | 12721.0 | 13302.7 | 13185.2 | 11728.3 | 11371.4 | 12023.6 | 13055.9 | 12284.9 |
| 55°   | 12251.1 | 12071.9 | 12387.7 | 13238.1 | 14499.6 | 14634.7 | 13257.2 | 12845.9 | 13455.4 | 14728.7 | 13583.2 |
| 57.5° | 11817.9 | 11826.8 | 12312.9 | 13426.0 | 15333.8 | 15997.5 | 15031.3 | 14414.5 | 14974.0 | 16423.6 | 14768.3 |
| 60°   | 11221.7 | 11302.5 | 12003.0 | 13395.1 | 16002.0 | 17115.1 | 17207.7 | 16104.9 | 16461.6 | 17964.1 | 15749.4 |
| 62.5° | 10259.7 | 10344.8 | 11311.3 | 13075.0 | 15900.6 | 18191.6 | 19175.6 | 18022.8 | 18017.0 | 18898.0 | 16037.2 |
| 65°   | 8742.6  | 8717.7  | 9732.5  | 11878.1 | 15050.4 | 18987.6 | 21130.4 | 19680.9 | 19188.8 | 18912.8 | 15458.5 |
| 67.5° | 6447.2  | 6335.6  | 7206.5  | 9046.6  | 12509.6 | 18096.2 | 22280.2 | 20544.3 | 19588.3 | 17668.9 | 13690.4 |
| 70°   | 3345.5  | 3233.8  | 3938.8  | 5282.5  | 8227.1  | 14123.6 | 21007.0 | 20097.9 | 18705.7 | 14810.9 | 10725.2 |
| 72.5° | 1430.4  | 1411.3  | 1697.7  | 2317.5  | 3980.0  | 8146.4  | 16471.9 | 17395.7 | 16050.4 | 11035.1 | 7373.9  |
| 75°   | 961.9   | 956.0   | 1063.3  | 1263.0  | 1790.2  | 3305.8  | 10308.2 | 12348.1 | 11742.9 | 6842.3  | 4147.4  |
| 77.5° | 754.9   | 747.6   | 810.7   | 907.6   | 1160.3  | 1304.1  | 4574.6  | 6629.3  | 6135.9  | 2978.3  | 1815.3  |
| 80°   | 590.3   | 584.5   | 624.2   | 677.1   | 834.2   | 822.4   | 1505.4  | 2637.6  | 2041.4  | 1141.1  | 882.6   |
| 82.5° | 465.6   | 465.6   | 497.9   | 499.4   | 591.8   | 561.0   | 785.7   | 1161.7  | 1019.2  | 665.3   | 540.4   |
| 85°   | 425.9   | 425.9   | 459.7   | 373.0   | 386.2   | 353.9   | 487.7   | 688.8   | 646.2   | 273.1   | 235.0   |
| 87.5° | 214.3   | 208.5   | 386.2   | 330.4   | 210.0   | 188.0   | 237.9   | 333.3   | 358.4   | 151.3   | 117.5   |
| 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):**

|       | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3749.3  | 3749.3 | 3749.3 | 3749.3 | 3749.3 | 3749.3 | 3749.3 | 3749.3 | 3749.3 | 3749.3 |
| 2.5°  | 3731.7  | 3730.2 | 3733.2 | 3734.7 | 3746.4 | 3762.6 | 3769.9 | 3780.2 | 3786.1 | 3783.1 |
| 5°    | 3687.7  | 3690.7 | 3702.4 | 3711.2 | 3731.7 | 3758.2 | 3772.8 | 3784.6 | 3794.9 | 3790.5 |
| 7.5°  | 3651.0  | 3658.3 | 3675.9 | 3683.2 | 3695.0 | 3702.4 | 3700.9 | 3705.3 | 3714.2 | 3703.9 |
| 10°   | 3630.3  | 3639.2 | 3652.4 | 3642.1 | 3614.3 | 3574.6 | 3538.0 | 3518.8 | 3524.7 | 3517.3 |
| 12.5° | 3609.8  | 3621.6 | 3611.3 | 3562.8 | 3485.1 | 3433.6 | 3405.7 | 3408.7 | 3421.9 | 3424.8 |
| 15°   | 3598.1  | 3602.5 | 3558.5 | 3467.4 | 3388.1 | 3380.7 | 3395.4 | 3392.5 | 3393.9 | 3393.9 |
| 17.5° | 3598.1  | 3586.3 | 3504.1 | 3413.0 | 3379.3 | 3366.1 | 3320.5 | 3263.2 | 3238.3 | 3229.4 |
| 20°   | 3617.1  | 3586.3 | 3486.5 | 3426.3 | 3352.8 | 3239.7 | 3119.4 | 3013.6 | 2966.6 | 2953.4 |
| 22.5° | 3674.5  | 3621.6 | 3536.4 | 3432.2 | 3223.5 | 3034.1 | 2843.3 | 2717.0 | 2631.7 | 2617.1 |
| 25°   | 3790.5  | 3731.7 | 3634.8 | 3354.3 | 3018.0 | 2747.8 | 2530.5 | 2389.4 | 2304.3 | 2292.5 |
| 27.5° | 3993.1  | 3954.9 | 3687.7 | 3182.5 | 2744.8 | 2455.5 | 2254.3 | 2145.7 | 2082.5 | 2078.1 |
| 30°   | 4298.6  | 4279.5 | 3661.3 | 2928.3 | 2408.5 | 2172.1 | 2075.2 | 2012.0 | 1965.0 | 1963.5 |
| 32.5° | 4786.2  | 4632.0 | 3574.6 | 2618.5 | 2101.6 | 1970.9 | 1931.2 | 1893.0 | 1856.4 | 1856.4 |
| 35°   | 5413.2  | 4916.8 | 3410.1 | 2286.6 | 1915.1 | 1859.3 | 1809.4 | 1749.1 | 1700.6 | 1697.7 |
| 37.5° | 6150.5  | 5093.1 | 3114.9 | 2019.3 | 1827.0 | 1784.3 | 1710.9 | 1621.3 | 1536.1 | 1521.4 |
| 40°   | 6895.2  | 5146.0 | 2699.4 | 1854.9 | 1771.1 | 1709.5 | 1619.9 | 1514.2 | 1431.9 | 1427.5 |
| 42.5° | 7578.0  | 5044.7 | 2258.7 | 1741.8 | 1715.4 | 1633.1 | 1539.1 | 1445.1 | 1380.5 | 1379.1 |
| 45°   | 8150.7  | 4781.8 | 1888.6 | 1634.5 | 1656.6 | 1564.0 | 1480.4 | 1404.0 | 1354.0 | 1343.8 |
| 47.5° | 8689.7  | 4410.2 | 1628.7 | 1521.4 | 1597.8 | 1526.0 | 1455.5 | 1383.4 | 1334.9 | 1327.6 |
| 50°   | 9315.5  | 4009.3 | 1446.6 | 1411.3 | 1546.4 | 1512.7 | 1476.0 | 1401.0 | 1320.3 | 1311.4 |
| 52.5° | 10073.1 | 3662.7 | 1304.1 | 1314.4 | 1506.8 | 1530.2 | 1528.9 | 1451.0 | 1310.0 | 1298.2 |
| 55°   | 10919.2 | 3277.9 | 1196.9 | 1235.0 | 1490.7 | 1562.6 | 1542.0 | 1498.0 | 1318.8 | 1301.2 |
| 57.5° | 11751.8 | 2828.5 | 1122.0 | 1174.9 | 1467.2 | 1559.6 | 1479.0 | 1415.8 | 1339.4 | 1314.4 |
| 60°   | 12376.1 | 2224.9 | 1064.7 | 1122.0 | 1415.8 | 1511.2 | 1409.9 | 1326.2 | 1334.9 | 1315.9 |
| 62.5° | 12417.1 | 1719.7 | 995.7  | 1076.5 | 1337.9 | 1462.8 | 1364.3 | 1286.5 | 1354.0 | 1336.5 |
| 65°   | 11687.3 | 1299.7 | 929.6  | 1022.1 | 1254.2 | 1431.9 | 1320.3 | 1264.4 | 1393.7 | 1374.6 |
| 67.5° | 9839.7  | 1045.6 | 873.8  | 966.4  | 1170.5 | 1367.3 | 1280.6 | 1243.9 | 1429.0 | 1395.1 |
| 70°   | 7103.7  | 891.4  | 819.5  | 898.7  | 1095.6 | 1293.8 | 1245.3 | 1207.2 | 1333.5 | 1280.6 |
| 72.5° | 4373.5  | 772.5  | 757.8  | 809.2  | 1038.3 | 1217.4 | 1192.6 | 1138.2 | 1201.3 | 1158.7 |
| 75°   | 2183.9  | 669.6  | 688.8  | 721.1  | 957.5  | 1130.9 | 1104.4 | 1050.1 | 1058.8 | 1050.1 |
| 77.5° | 1045.6  | 572.7  | 608.0  | 632.9  | 853.4  | 1032.4 | 1004.5 | 948.7  | 938.4  | 939.9  |
| 80°   | 662.3   | 478.8  | 512.5  | 530.1  | 762.2  | 917.9  | 890.0  | 834.2  | 951.6  | 882.6  |
| 82.5° | 414.2   | 389.2  | 398.0  | 430.3  | 663.9  | 798.9  | 762.2  | 712.3  | 857.6  | 678.5  |
| 85°   | 229.1   | 271.7  | 283.4  | 311.4  | 511.2  | 668.2  | 631.5  | 568.3  | 509.5  | 500.9  |
| 87.5° | 136.6   | 161.6  | 166.0  | 186.5  | 343.6  | 483.2  | 427.3  | 405.4  | 336.3  | 334.9  |
| 90°   | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)