

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: P301700

Luminaire Tested: **GLNA-AF-04-LED-E1-T2R-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P301700  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194759)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-04-LED-E1-T2R-8030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II  
Roadway OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13400.1 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

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



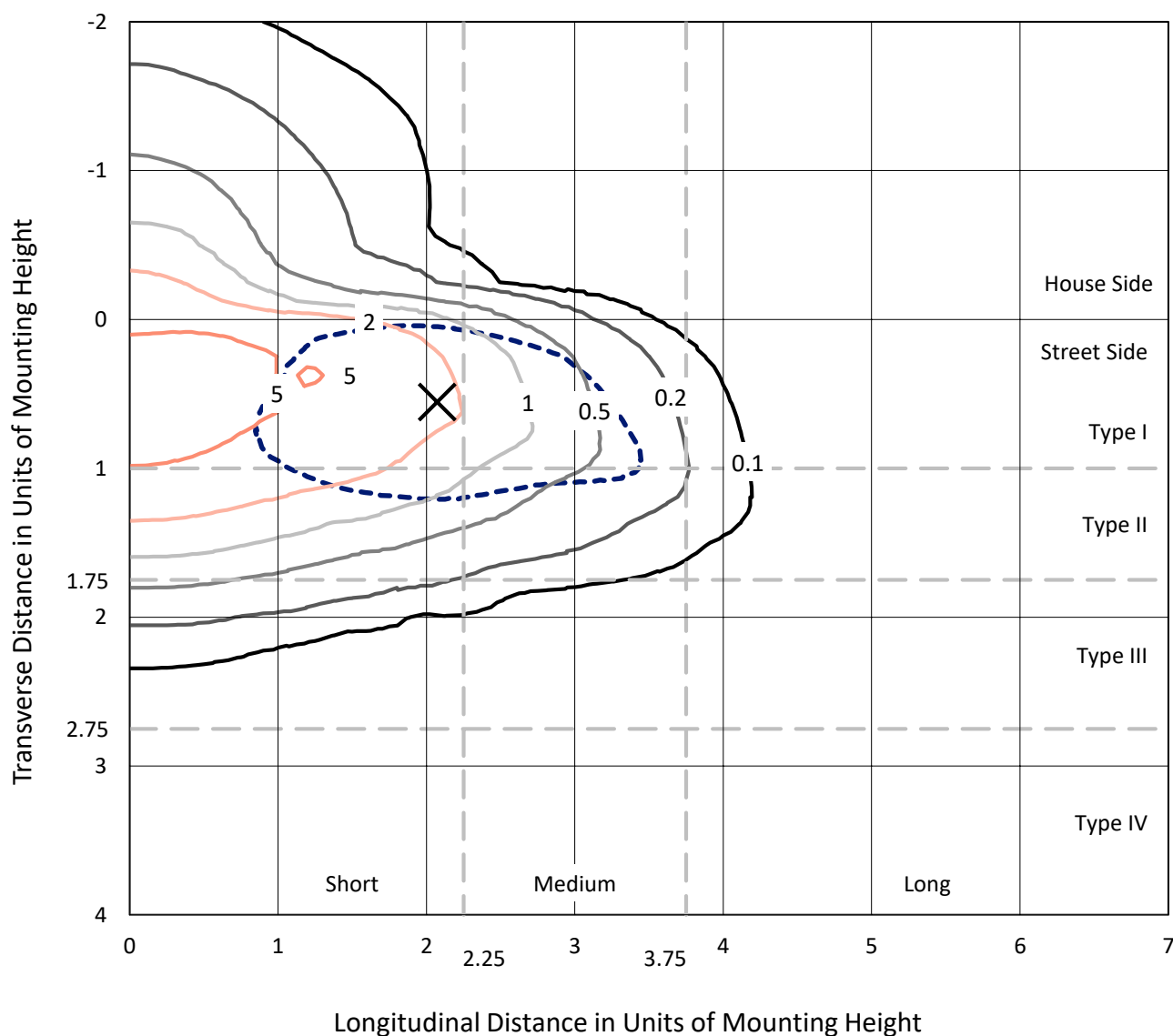
REPORT NUMBER: P301700

CATALOG NUMBER: GLNA-AF-04-LED-E1-T2R-8030-600

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

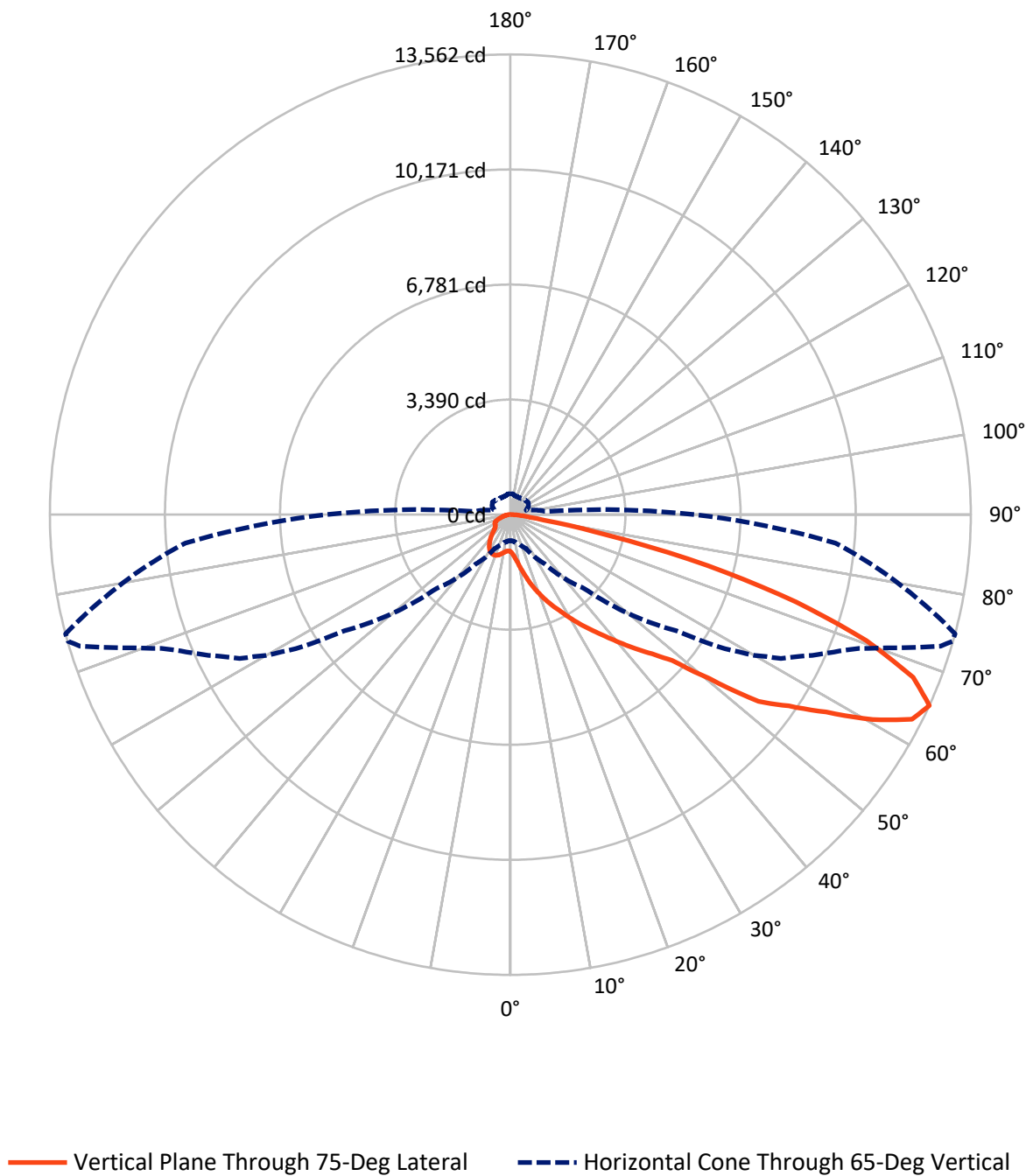


Based on 20 foot mounting height. Maximum calculated value = 8.5 fc  
 Type II - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2066.0   | 0.0    | 2066.0  |
|                    | % Fixture | 15.4     | 0.0    | 15.4    |
| <b>Street Side</b> | Lumens    | 11334.1  | 0.0    | 11334.1 |
|                    | % Fixture | 84.6     | 0.0    | 84.6    |
| <b>Total</b>       | Lumens    | 13400.1  | 0.0    | 13400.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 134.6   | 1.0       |
| 10°-20°   | 525.9   | 3.9       |
| 20°-30°   | 1079.0  | 8.1       |
| 30°-40°   | 1815.4  | 13.5      |
| 40°-50°   | 2508.4  | 18.7      |
| 50°-60°   | 3131.3  | 23.4      |
| 60°-70°   | 2817.8  | 21.0      |
| 70°-80°   | 1181.2  | 8.8       |
| 80°-90°   | 206.4   | 1.5       |
| 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°    | 13400.1 | 100.0     |
| 0°-180°   | 13400.1 | 100.0     |

**Coefficient of Utilization**



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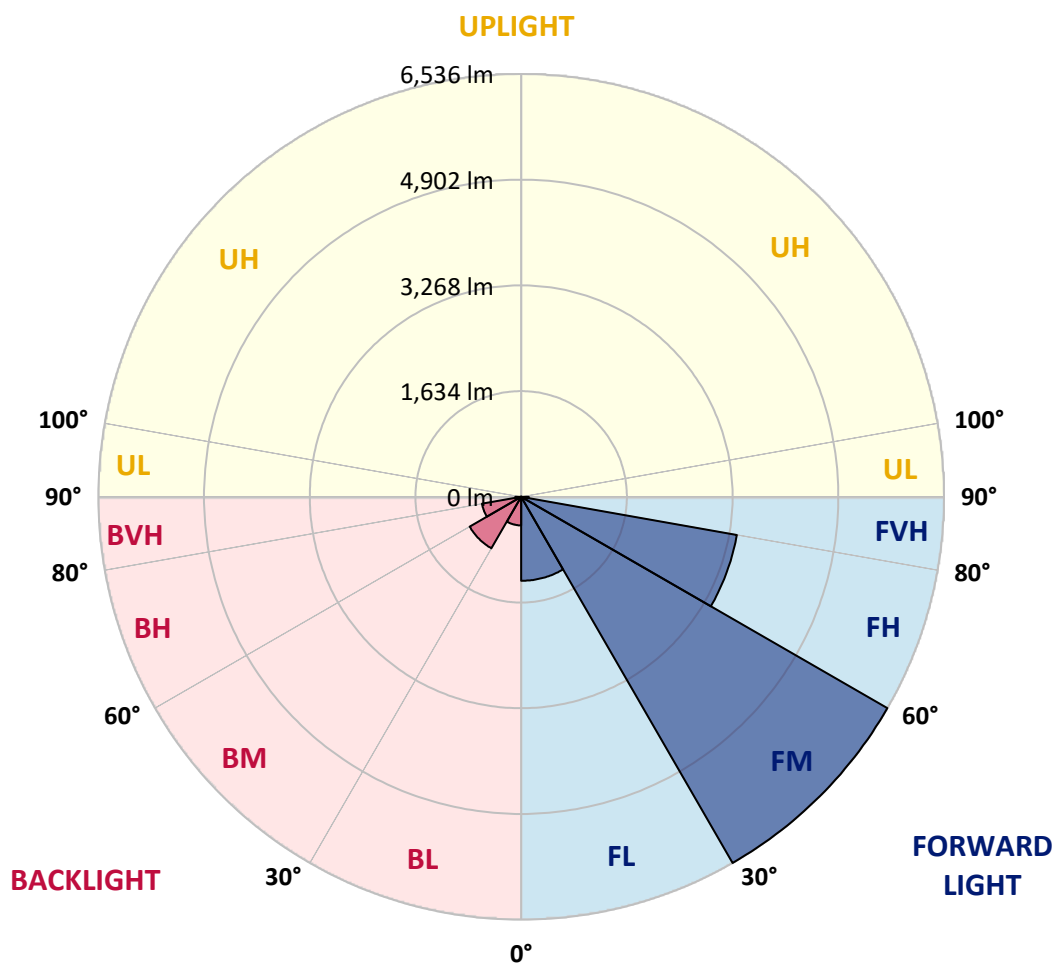
CATALOG NUMBER: GLNA-AF-04-LED-E1-T2R-8030-600

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1297.8 | 9.7       |                         |      |         |
| FM   | (30°-60°)   | 6535.5 | 48.8      |                         |      |         |
| FH   | (60°-80°)   | 3384.8 | 25.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 116.0  | 0.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 441.8  | 3.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 919.6  | 6.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 614.2  | 4.6       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 90.4   | 0.7       |                         |      | 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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CATALOG NUMBER: GLNA-AF-04-LED-E1-T2R-8030-600

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 57°    | 58°    | 59°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1089.0 | 1089.0 | 1089.0 | 1089.0 | 1089.0 | 1089.0 | 1089.0 | 1089.0 | 1089.0 | 1089.0 | 1089.0 |
| 2.5°  | 1382.7 | 1367.5 | 1371.2 | 1345.8 | 1314.8 | 1274.2 | 1229.2 | 1228.6 | 1229.2 | 1224.7 | 1208.3 |
| 5°    | 1917.2 | 1899.0 | 1892.0 | 1834.8 | 1751.1 | 1632.0 | 1502.6 | 1488.6 | 1482.8 | 1468.3 | 1434.6 |
| 7.5°  | 2307.5 | 2297.3 | 2286.4 | 2243.3 | 2167.3 | 2034.1 | 1860.2 | 1830.5 | 1801.9 | 1795.0 | 1756.9 |
| 10°   | 2559.2 | 2556.6 | 2533.8 | 2522.3 | 2474.9 | 2359.4 | 2190.1 | 2161.5 | 2130.4 | 2119.7 | 2079.6 |
| 12.5° | 2758.3 | 2757.7 | 2747.0 | 2750.2 | 2708.8 | 2625.3 | 2479.3 | 2453.3 | 2430.5 | 2397.4 | 2369.0 |
| 15°   | 2896.0 | 2896.6 | 2912.6 | 2930.2 | 2923.9 | 2867.4 | 2730.4 | 2719.0 | 2699.4 | 2676.6 | 2642.9 |
| 17.5° | 3008.9 | 3012.1 | 3028.5 | 3060.8 | 3095.8 | 3091.3 | 2982.9 | 2973.3 | 2956.2 | 2925.2 | 2907.5 |
| 20°   | 3263.8 | 3275.9 | 3244.3 | 3244.3 | 3248.0 | 3265.2 | 3213.0 | 3205.5 | 3181.4 | 3164.9 | 3150.9 |
| 22.5° | 3694.5 | 3708.4 | 3636.8 | 3563.9 | 3492.3 | 3440.1 | 3388.2 | 3397.6 | 3381.2 | 3369.8 | 3361.5 |
| 25°   | 4253.9 | 4264.8 | 4148.7 | 4025.7 | 3879.7 | 3689.4 | 3560.7 | 3554.9 | 3546.1 | 3539.1 | 3535.3 |
| 27.5° | 4780.3 | 4784.8 | 4675.2 | 4494.9 | 4325.6 | 4052.2 | 3735.7 | 3728.8 | 3718.0 | 3704.7 | 3693.2 |
| 30°   | 5230.8 | 5229.4 | 5116.6 | 4944.6 | 4763.2 | 4460.7 | 4001.6 | 3979.9 | 3948.1 | 3912.0 | 3884.2 |
| 32.5° | 5620.8 | 5618.9 | 5495.1 | 5316.9 | 5126.7 | 4865.4 | 4365.6 | 4321.2 | 4271.8 | 4201.2 | 4158.9 |
| 35°   | 5927.7 | 5926.5 | 5809.7 | 5624.0 | 5405.7 | 5246.6 | 4783.0 | 4728.4 | 4665.6 | 4571.1 | 4505.8 |
| 37.5° | 6043.8 | 6043.8 | 5978.5 | 5851.7 | 5658.8 | 5549.7 | 5246.6 | 5180.5 | 5113.4 | 5006.1 | 4932.5 |
| 40°   | 5975.8 | 5977.1 | 5991.1 | 5967.7 | 5873.9 | 5790.1 | 5679.1 | 5639.8 | 5582.0 | 5485.7 | 5408.9 |
| 42.5° | 5748.2 | 5755.1 | 5847.9 | 5961.3 | 6008.2 | 5995.0 | 6062.8 | 6045.1 | 6004.4 | 5930.3 | 5869.3 |
| 45°   | 5459.5 | 5481.2 | 5582.6 | 5797.1 | 6045.6 | 6171.9 | 6384.3 | 6386.2 | 6378.7 | 6338.8 | 6291.7 |
| 47.5° | 5063.3 | 5093.6 | 5227.6 | 5517.3 | 5958.1 | 6343.9 | 6710.9 | 6728.1 | 6744.0 | 6718.1 | 6696.4 |
| 50°   | 4536.9 | 4573.0 | 4773.4 | 5157.8 | 5780.0 | 6522.0 | 7328.1 | 7405.6 | 7477.8 | 7469.0 | 7483.5 |
| 52.5° | 3973.0 | 4015.5 | 4260.8 | 4689.1 | 5473.7 | 6563.2 | 7722.6 | 7848.9 | 7975.1 | 8078.4 | 8188.1 |
| 55°   | 3464.2 | 3441.5 | 3687.0 | 4137.8 | 4970.0 | 6377.3 | 8077.3 | 8229.5 | 8370.2 | 8497.0 | 8627.8 |
| 57.5° | 2774.8 | 2812.3 | 3058.4 | 3504.3 | 4303.4 | 5852.8 | 8321.3 | 8544.1 | 8746.3 | 8956.3 | 9141.5 |
| 60°   | 2028.3 | 2065.7 | 2332.7 | 2785.6 | 3579.7 | 5057.5 | 8134.9 | 8472.4 | 8796.4 | 9117.9 | 9369.1 |
| 62.5° | 1224.7 | 1252.7 | 1487.9 | 1919.3 | 2760.3 | 4114.5 | 7304.0 | 7746.7 | 8223.7 | 8608.1 | 8993.0 |
| 65°   | 762.4  | 778.2  | 865.1  | 1102.4 | 1772.7 | 3071.7 | 5967.7 | 6450.3 | 6964.0 | 7451.9 | 7852.1 |
| 67.5° | 624.1  | 629.7  | 645.7  | 696.3  | 973.5  | 2003.0 | 4441.7 | 4869.1 | 5332.7 | 5804.6 | 6250.0 |
| 70°   | 561.3  | 557.5  | 557.5  | 560.7  | 624.1  | 1077.0 | 2908.0 | 3186.5 | 3572.8 | 3983.1 | 4390.3 |
| 72.5° | 506.7  | 502.9  | 496.0  | 486.6  | 509.3  | 657.0  | 1503.1 | 1713.1 | 1991.6 | 2356.2 | 2746.2 |
| 75°   | 455.3  | 450.2  | 442.2  | 430.1  | 445.9  | 496.0  | 721.7  | 810.0  | 945.6  | 1139.8 | 1357.3 |
| 77.5° | 402.1  | 395.7  | 388.2  | 379.3  | 399.6  | 385.7  | 423.0  | 454.8  | 506.7  | 569.0  | 650.8  |
| 80°   | 341.9  | 336.2  | 333.6  | 329.3  | 353.3  | 293.7  | 298.8  | 318.3  | 348.8  | 382.5  | 420.5  |
| 82.5° | 267.7  | 267.7  | 277.7  | 279.8  | 306.3  | 211.3  | 223.3  | 240.5  | 256.3  | 273.9  | 291.8  |
| 85°   | 176.3  | 177.6  | 211.9  | 225.2  | 241.6  | 142.1  | 167.5  | 173.1  | 185.9  | 196.1  | 203.6  |
| 87.5° | 55.1   | 59.6   | 129.4  | 143.4  | 138.9  | 80.5   | 102.7  | 105.4  | 114.2  | 121.2  | 127.6  |
| 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):**

|       | 60°    | 61°    | 62°    | 63°     | 64°     | 65°     | 66°     | 67°     | 68°     | 69°     | 70°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1089.0 | 1089.0 | 1089.0 | 1089.0  | 1089.0  | 1089.0  | 1089.0  | 1089.0  | 1089.0  | 1089.0  | 1089.0  |
| 2.5°  | 1208.3 | 1200.6 | 1193.6 | 1193.1  | 1188.0  | 1181.0  | 1183.5  | 1172.7  | 1173.3  | 1167.7  | 1161.3  |
| 5°    | 1420.7 | 1415.6 | 1390.2 | 1383.3  | 1364.3  | 1352.2  | 1350.4  | 1325.0  | 1321.8  | 1307.3  | 1291.3  |
| 7.5°  | 1726.5 | 1709.9 | 1674.3 | 1657.2  | 1624.9  | 1600.8  | 1589.5  | 1555.8  | 1539.3  | 1501.2  | 1484.1  |
| 10°   | 2046.7 | 2025.8 | 1982.0 | 1957.9  | 1926.8  | 1888.1  | 1867.2  | 1818.5  | 1799.3  | 1764.5  | 1722.7  |
| 12.5° | 2343.6 | 2322.7 | 2277.6 | 2259.1  | 2217.9  | 2176.7  | 2153.9  | 2098.8  | 2074.0  | 2018.1  | 1985.2  |
| 15°   | 2618.1 | 2597.2 | 2557.9 | 2538.9  | 2497.7  | 2464.0  | 2433.5  | 2379.2  | 2350.0  | 2297.9  | 2254.8  |
| 17.5° | 2884.5 | 2862.3 | 2828.1 | 2811.0  | 2771.1  | 2736.8  | 2703.9  | 2652.4  | 2622.6  | 2570.7  | 2531.9  |
| 20°   | 3131.9 | 3115.4 | 3090.7 | 3067.8  | 3027.9  | 2996.9  | 2957.5  | 2913.1  | 2870.0  | 2831.8  | 2795.2  |
| 22.5° | 3347.6 | 3341.2 | 3314.6 | 3304.5  | 3270.2  | 3243.5  | 3209.3  | 3165.6  | 3134.4  | 3086.2  | 3052.0  |
| 25°   | 3533.5 | 3531.6 | 3518.8 | 3515.6  | 3491.5  | 3466.1  | 3458.6  | 3422.4  | 3393.8  | 3351.3  | 3316.0  |
| 27.5° | 3693.2 | 3695.1 | 3692.1 | 3700.9  | 3694.5  | 3683.0  | 3683.8  | 3671.7  | 3655.2  | 3619.6  | 3588.6  |
| 30°   | 3870.8 | 3860.6 | 3866.5 | 3879.1  | 3882.9  | 3884.2  | 3905.1  | 3912.0  | 3910.9  | 3887.4  | 3872.1  |
| 32.5° | 4122.0 | 4097.9 | 4075.7 | 4073.8  | 4086.4  | 4091.5  | 4127.1  | 4145.5  | 4161.3  | 4167.0  | 4169.6  |
| 35°   | 4442.2 | 4394.1 | 4347.8 | 4323.1  | 4301.5  | 4307.1  | 4332.5  | 4362.4  | 4397.3  | 4421.3  | 4449.9  |
| 37.5° | 4845.6 | 4786.7 | 4704.9 | 4646.6  | 4631.9  | 4600.3  | 4616.6  | 4640.2  | 4674.4  | 4711.8  | 4761.3  |
| 40°   | 5334.6 | 5245.2 | 5153.2 | 5075.9  | 5034.1  | 4975.6  | 4975.1  | 4970.5  | 4991.6  | 5026.4  | 5096.2  |
| 42.5° | 5805.4 | 5726.0 | 5628.3 | 5547.2  | 5492.7  | 5414.6  | 5398.8  | 5357.6  | 5367.0  | 5397.5  | 5465.4  |
| 45°   | 6246.0 | 6180.7 | 6121.1 | 6027.4  | 5980.9  | 5896.6  | 5869.9  | 5821.2  | 5793.9  | 5807.8  | 5875.7  |
| 47.5° | 6672.9 | 6631.2 | 6568.9 | 6508.1  | 6472.5  | 6397.1  | 6362.9  | 6327.9  | 6293.1  | 6291.7  | 6362.9  |
| 50°   | 7505.1 | 7482.9 | 7409.3 | 7345.9  | 7363.1  | 7270.5  | 7276.1  | 7182.3  | 7224.8  | 7229.9  | 7378.9  |
| 52.5° | 8287.1 | 8364.6 | 8419.1 | 8485.6  | 8528.8  | 8537.1  | 8565.5  | 8608.1  | 8659.4  | 8760.8  | 8899.1  |
| 55°   | 8734.9 | 8831.9 | 8888.4 | 8939.2  | 9022.9  | 9040.6  | 9088.2  | 9144.7  | 9189.6  | 9303.8  | 9421.2  |
| 57.5° | 9267.1 | 9447.2 | 9534.7 | 9615.2  | 9728.1  | 9771.2  | 9850.6  | 9912.1  | 9970.4  | 10105.5 | 10247.6 |
| 60°   | 9594.9 | 9814.5 | 9992.6 | 10120.0 | 10261.5 | 10363.1 | 10483.0 | 10579.3 | 10716.3 | 10878.1 | 11089.9 |
| 62.5° | 9334.3 | 9656.4 | 9893.1 | 10111.9 | 10304.0 | 10498.2 | 10670.0 | 10850.2 | 11058.1 | 11302.9 | 11631.6 |
| 65°   | 8296.1 | 8623.9 | 9029.1 | 9256.2  | 9510.6  | 9810.0  | 10071.3 | 10363.1 | 10646.5 | 11003.0 | 11488.8 |
| 67.5° | 6678.8 | 7059.8 | 7515.3 | 7744.3  | 8036.6  | 8370.8  | 8663.9  | 9020.3  | 9351.4  | 9783.2  | 10384.0 |
| 70°   | 4814.0 | 5306.8 | 5689.8 | 5929.0  | 6270.3  | 6614.6  | 6897.6  | 7312.3  | 7586.2  | 8028.9  | 8650.0  |
| 72.5° | 3048.2 | 3436.9 | 3906.4 | 4207.6  | 4510.7  | 4859.7  | 5148.9  | 5506.6  | 5762.1  | 6165.5  | 6728.1  |
| 75°   | 1639.0 | 1925.5 | 2337.8 | 2623.9  | 2948.7  | 3246.7  | 3585.4  | 3825.1  | 4014.2  | 4333.3  | 4789.9  |
| 77.5° | 768.0  | 942.4  | 1151.1 | 1371.2  | 1591.4  | 1820.9  | 2044.2  | 2238.2  | 2319.5  | 2502.2  | 2771.6  |
| 80°   | 466.2  | 522.7  | 583.5  | 651.4   | 743.4   | 817.5   | 915.9   | 986.8   | 991.9   | 1049.7  | 1132.1  |
| 82.5° | 311.4  | 332.3  | 350.7  | 367.8   | 391.4   | 409.8   | 430.7   | 455.3   | 465.5   | 478.8   | 505.6   |
| 85°   | 212.4  | 222.6  | 226.3  | 237.3   | 234.6   | 241.0   | 249.3   | 257.6   | 261.9   | 261.3   | 273.4   |
| 87.5° | 130.6  | 135.7  | 138.3  | 140.7   | 138.9   | 136.4   | 140.2   | 144.7   | 145.8   | 142.1   | 143.4   |
| 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):**

|       | 71°     | 72°     | 73°     | 74°     | 75°     | 85°    | 90°    | 95°    | 105°   | 115°   | 125°   |
|-------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 0°    | 1089.0  | 1089.0  | 1089.0  | 1089.0  | 1089.0  | 1089.0 | 1089.0 | 1089.0 | 1089.0 | 1089.0 | 1089.0 |
| 2.5°  | 1162.6  | 1156.9  | 1151.1  | 1147.3  | 1146.0  | 1112.5 | 1097.9 | 1088.4 | 1068.1 | 1051.6 | 1038.2 |
| 5°    | 1282.4  | 1270.4  | 1261.0  | 1249.5  | 1243.1  | 1158.1 | 1127.0 | 1105.6 | 1070.0 | 1049.1 | 1029.9 |
| 7.5°  | 1475.3  | 1441.6  | 1422.0  | 1399.8  | 1380.8  | 1227.3 | 1175.9 | 1142.3 | 1092.8 | 1064.9 | 1043.3 |
| 10°   | 1694.1  | 1659.3  | 1628.1  | 1593.8  | 1564.1  | 1319.3 | 1244.4 | 1192.3 | 1127.0 | 1090.9 | 1062.3 |
| 12.5° | 1938.3  | 1904.1  | 1864.8  | 1820.9  | 1782.9  | 1436.0 | 1331.9 | 1257.8 | 1168.2 | 1120.1 | 1080.2 |
| 15°   | 2226.9  | 2166.5  | 2118.9  | 2068.3  | 2023.9  | 1575.6 | 1434.1 | 1331.3 | 1212.1 | 1146.8 | 1093.5 |
| 17.5° | 2495.1  | 2431.7  | 2367.1  | 2322.7  | 2271.3  | 1732.1 | 1536.8 | 1406.0 | 1248.2 | 1163.9 | 1096.0 |
| 20°   | 2757.2  | 2687.9  | 2632.2  | 2572.6  | 2518.6  | 1894.5 | 1646.5 | 1472.1 | 1271.7 | 1164.5 | 1080.2 |
| 22.5° | 2988.0  | 2944.7  | 2882.6  | 2817.9  | 2763.4  | 2056.9 | 1749.2 | 1528.0 | 1280.5 | 1150.0 | 1052.1 |
| 25°   | 3250.5  | 3204.9  | 3128.7  | 3074.2  | 3013.4  | 2222.4 | 1850.1 | 1571.1 | 1275.5 | 1122.7 | 1009.0 |
| 27.5° | 3530.8  | 3480.2  | 3402.1  | 3345.1  | 3271.6  | 2394.2 | 1942.6 | 1602.1 | 1256.5 | 1078.3 | 951.3  |
| 30°   | 3823.2  | 3776.9  | 3700.2  | 3642.6  | 3568.3  | 2576.3 | 2046.1 | 1623.0 | 1218.5 | 1016.8 | 884.1  |
| 32.5° | 4137.2  | 4098.5  | 4022.5  | 3962.3  | 3882.9  | 2773.5 | 2142.5 | 1629.4 | 1160.7 | 943.8  | 813.2  |
| 35°   | 4435.3  | 4408.7  | 4344.6  | 4288.1  | 4205.7  | 2960.0 | 2244.6 | 1626.2 | 1092.2 | 863.8  | 748.5  |
| 37.5° | 4770.9  | 4754.9  | 4723.3  | 4651.6  | 4550.8  | 3213.0 | 2367.1 | 1612.8 | 1008.5 | 784.6  | 699.0  |
| 40°   | 5128.6  | 5129.9  | 5095.7  | 5046.7  | 4952.9  | 3520.1 | 2512.9 | 1586.9 | 917.0  | 714.8  | 653.8  |
| 42.5° | 5507.2  | 5526.9  | 5510.3  | 5475.5  | 5385.4  | 3829.6 | 2687.3 | 1555.2 | 828.4  | 646.9  | 609.6  |
| 45°   | 5941.0  | 5965.1  | 5990.5  | 5939.1  | 5851.7  | 4238.1 | 2916.9 | 1514.0 | 732.5  | 590.4  | 579.1  |
| 47.5° | 6441.5  | 6479.5  | 6502.3  | 6503.0  | 6415.5  | 4744.2 | 3289.8 | 1489.2 | 647.6  | 552.4  | 564.5  |
| 50°   | 7497.4  | 7509.6  | 7563.4  | 7657.3  | 7590.2  | 5915.6 | 3941.2 | 1474.0 | 589.9  | 528.9  | 553.7  |
| 52.5° | 9019.0  | 9151.6  | 9244.9  | 9238.5  | 9147.1  | 6659.6 | 4300.2 | 1395.3 | 555.6  | 520.0  | 548.6  |
| 55°   | 9638.7  | 9804.3  | 9976.8  | 10022.4 | 9951.4  | 7294.6 | 4639.6 | 1316.7 | 539.0  | 526.4  | 550.5  |
| 57.5° | 10464.5 | 10743.6 | 10980.2 | 11079.8 | 10977.0 | 8107.0 | 5086.1 | 1275.5 | 534.0  | 543.6  | 562.6  |
| 60°   | 11429.2 | 11774.2 | 12085.1 | 12263.8 | 12263.8 | 9040.6 | 5549.1 | 1258.3 | 527.0  | 569.0  | 582.9  |
| 62.5° | 12048.9 | 12555.6 | 13025.1 | 13287.0 | 13279.3 | 9690.7 | 5754.6 | 1200.0 | 511.2  | 586.7  | 610.7  |
| 65°   | 12051.4 | 12654.0 | 13252.0 | 13546.4 | 13561.5 | 9610.9 | 5415.3 | 1059.8 | 482.0  | 589.3  | 638.8  |
| 67.5° | 11046.9 | 11689.2 | 12386.3 | 12715.6 | 12791.6 | 8847.2 | 4687.8 | 871.5  | 434.4  | 563.9  | 648.9  |
| 70°   | 9329.8  | 9957.1  | 10668.7 | 10992.3 | 11127.4 | 7541.8 | 3775.6 | 671.7  | 373.7  | 508.0  | 627.9  |
| 72.5° | 7350.3  | 7965.5  | 8460.9  | 8697.4  | 8802.8  | 5764.7 | 2749.4 | 507.4  | 306.3  | 428.0  | 571.4  |
| 75°   | 5204.0  | 5665.8  | 5929.0  | 5981.7  | 5998.0  | 3475.1 | 1670.6 | 377.4  | 252.5  | 333.0  | 482.6  |
| 77.5° | 2937.2  | 3135.1  | 3113.5  | 3137.0  | 2941.7  | 1341.5 | 727.6  | 270.2  | 208.1  | 253.1  | 374.2  |
| 80°   | 1146.8  | 1182.3  | 1110.6  | 1088.4  | 998.3   | 499.2  | 321.0  | 188.3  | 166.1  | 191.5  | 261.9  |
| 82.5° | 505.6   | 521.9   | 506.7   | 510.6   | 488.4   | 257.6  | 192.1  | 136.4  | 126.8  | 140.2  | 173.9  |
| 85°   | 278.5   | 283.5   | 282.2   | 290.5   | 278.5   | 102.7  | 91.3   | 83.7   | 88.8   | 95.2   | 111.6  |
| 87.5° | 135.7   | 137.0   | 132.6   | 139.6   | 135.1   | 51.9   | 45.0   | 47.6   | 51.9   | 53.2   | 53.2   |
| 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):**

|       | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 1089.0 | 1089.0 | 1089.0 | 1089.0 | 1089.0 | 1089.0 |
| 2.5°  | 1028.8 | 1023.7 | 1024.3 | 1023.0 | 1020.5 | 1020.5 |
| 5°    | 1020.0 | 1014.9 | 1014.9 | 1013.6 | 1010.4 | 1010.9 |
| 7.5°  | 1028.8 | 1020.5 | 1017.3 | 1012.8 | 1008.5 | 1008.5 |
| 10°   | 1039.0 | 1024.3 | 1015.4 | 1007.9 | 1002.1 | 1002.1 |
| 12.5° | 1046.5 | 1023.7 | 1009.0 | 998.9  | 993.2  | 993.2  |
| 15°   | 1049.1 | 1019.2 | 998.9  | 986.8  | 981.8  | 981.2  |
| 17.5° | 1040.8 | 1002.1 | 977.4  | 963.5  | 957.1  | 955.2  |
| 20°   | 1015.4 | 971.0  | 941.3  | 925.3  | 916.5  | 913.3  |
| 22.5° | 977.4  | 926.6  | 891.8  | 875.3  | 863.8  | 861.9  |
| 25°   | 924.2  | 869.6  | 835.4  | 819.4  | 813.2  | 811.1  |
| 27.5° | 861.9  | 811.1  | 782.0  | 771.8  | 766.1  | 765.6  |
| 30°   | 803.0  | 759.7  | 738.3  | 730.6  | 723.6  | 722.5  |
| 32.5° | 747.7  | 720.4  | 712.3  | 701.4  | 685.1  | 683.2  |
| 35°   | 708.4  | 705.9  | 700.3  | 676.0  | 655.9  | 650.1  |
| 37.5° | 684.3  | 707.8  | 678.7  | 631.1  | 616.6  | 615.3  |
| 40°   | 670.4  | 688.3  | 638.0  | 621.6  | 622.8  | 621.6  |
| 42.5° | 638.8  | 657.0  | 639.3  | 631.8  | 636.7  | 638.0  |
| 45°   | 607.0  | 627.3  | 648.9  | 643.8  | 655.9  | 655.9  |
| 47.5° | 589.3  | 619.6  | 648.2  | 648.2  | 666.1  | 672.3  |
| 50°   | 569.0  | 613.4  | 638.0  | 646.9  | 661.0  | 655.9  |
| 52.5° | 567.6  | 602.5  | 623.5  | 639.3  | 645.7  | 639.9  |
| 55°   | 569.5  | 593.6  | 608.9  | 626.7  | 634.3  | 634.8  |
| 57.5° | 572.2  | 588.5  | 598.7  | 607.0  | 629.7  | 629.7  |
| 60°   | 578.4  | 584.2  | 589.9  | 594.4  | 624.1  | 624.7  |
| 62.5° | 588.5  | 579.7  | 578.4  | 582.9  | 620.9  | 618.4  |
| 65°   | 604.5  | 573.3  | 563.9  | 568.2  | 617.7  | 610.2  |
| 67.5° | 626.0  | 563.9  | 545.4  | 548.6  | 615.3  | 598.7  |
| 70°   | 645.7  | 548.6  | 522.7  | 519.5  | 591.2  | 562.0  |
| 72.5° | 647.6  | 531.0  | 490.9  | 481.5  | 513.8  | 485.8  |
| 75°   | 615.8  | 518.7  | 456.1  | 428.0  | 424.3  | 420.5  |
| 77.5° | 555.0  | 511.8  | 415.4  | 371.6  | 364.1  | 366.5  |
| 80°   | 464.4  | 485.8  | 366.5  | 314.6  | 355.8  | 351.5  |
| 82.5° | 346.9  | 428.8  | 311.4  | 278.5  | 277.7  | 245.5  |
| 85°   | 192.9  | 334.3  | 253.6  | 208.7  | 145.3  | 140.7  |
| 87.5° | 54.0   | 185.9  | 177.6  | 118.0  | 80.5   | 83.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)