

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: P194762

Luminaire Tested: **GLEON-AF-04-LED-E1-T2R-7060-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194762  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-04-LED-E1-T2R-7060-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27442 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 258  
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



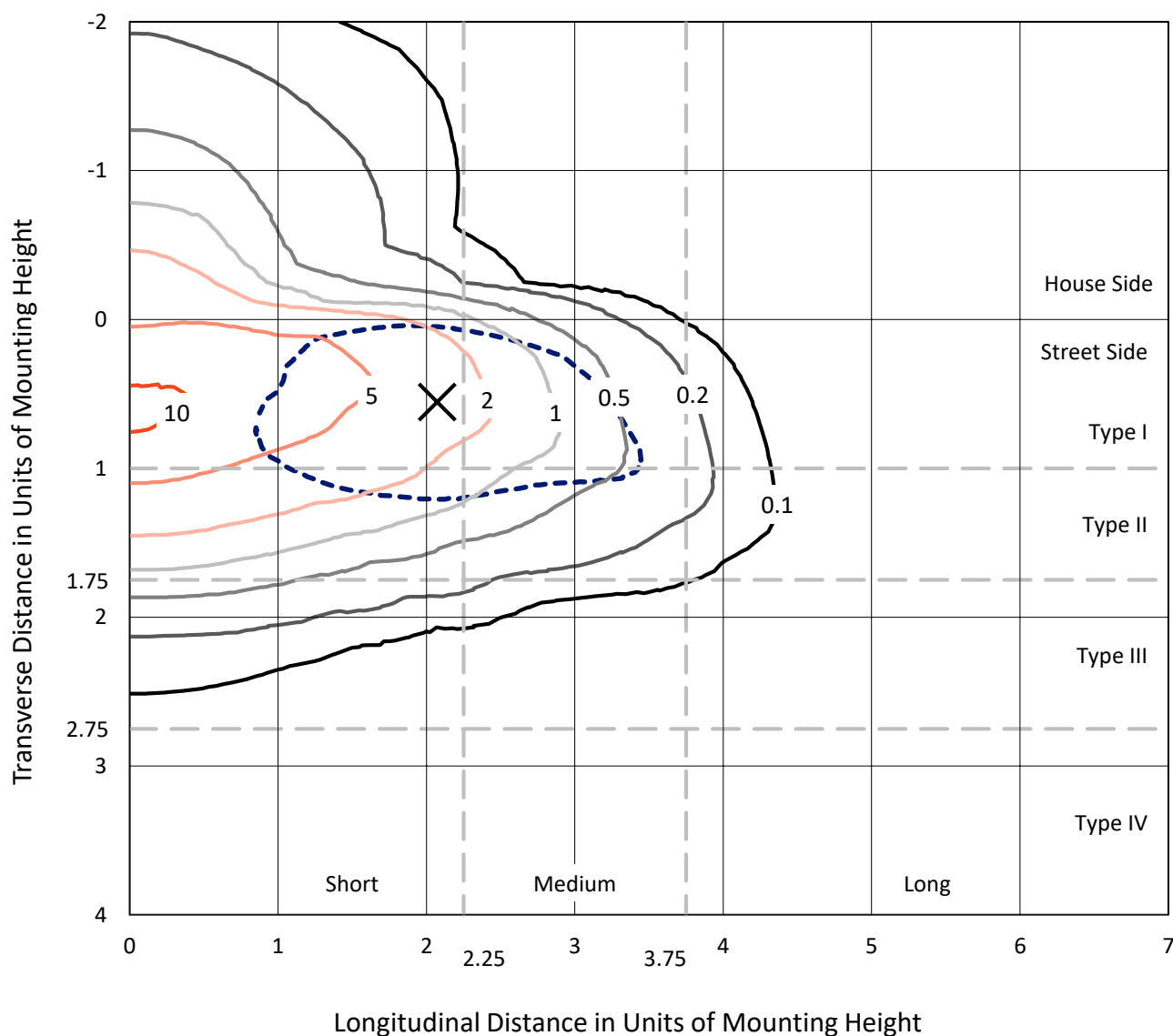
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

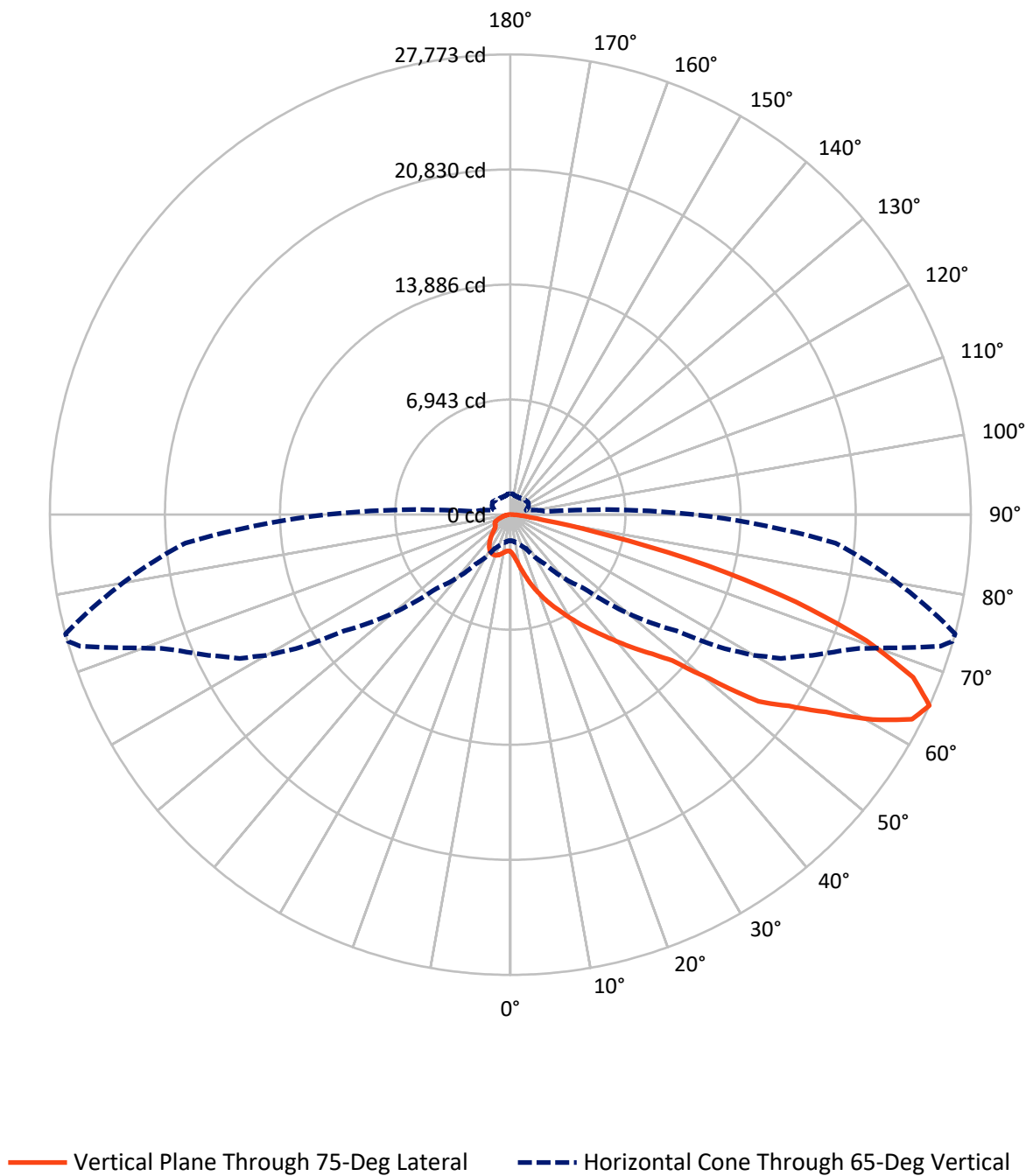


Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
 Type II - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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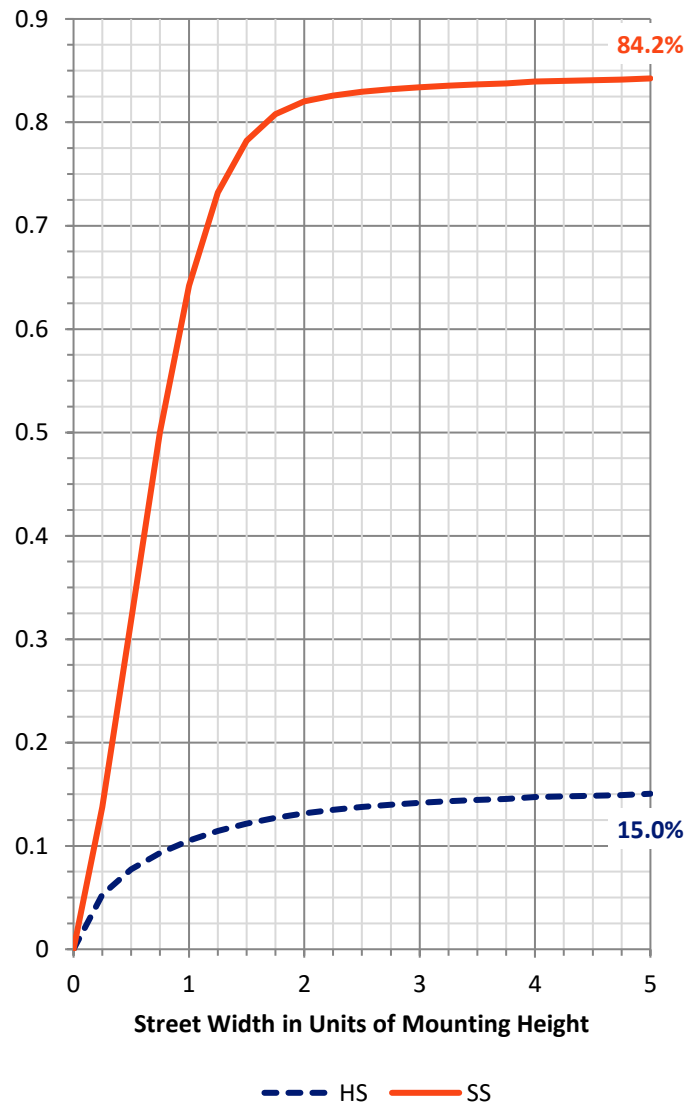
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4230.9   | 0.0    | 4230.9  |
|                    | % Fixture | 15.4     | 0.0    | 15.4    |
| <b>Street Side</b> | Lumens    | 23211.1  | 0.0    | 23211.1 |
|                    | % Fixture | 84.6     | 0.0    | 84.6    |
| <b>Total</b>       | Lumens    | 27442.0  | 0.0    | 27442.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 275.7   | 1.0       |
| 10°-20°   | 1077.1  | 3.9       |
| 20°-30°   | 2209.8  | 8.1       |
| 30°-40°   | 3717.8  | 13.5      |
| 40°-50°   | 5137.0  | 18.7      |
| 50°-60°   | 6412.5  | 23.4      |
| 60°-70°   | 5770.6  | 21.0      |
| 70°-80°   | 2419.0  | 8.8       |
| 80°-90°   | 422.6   | 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°    | 27442.0 | 100.0     |
| 0°-180°   | 27442.0 | 100.0     |

**Coefficient of Utilization**



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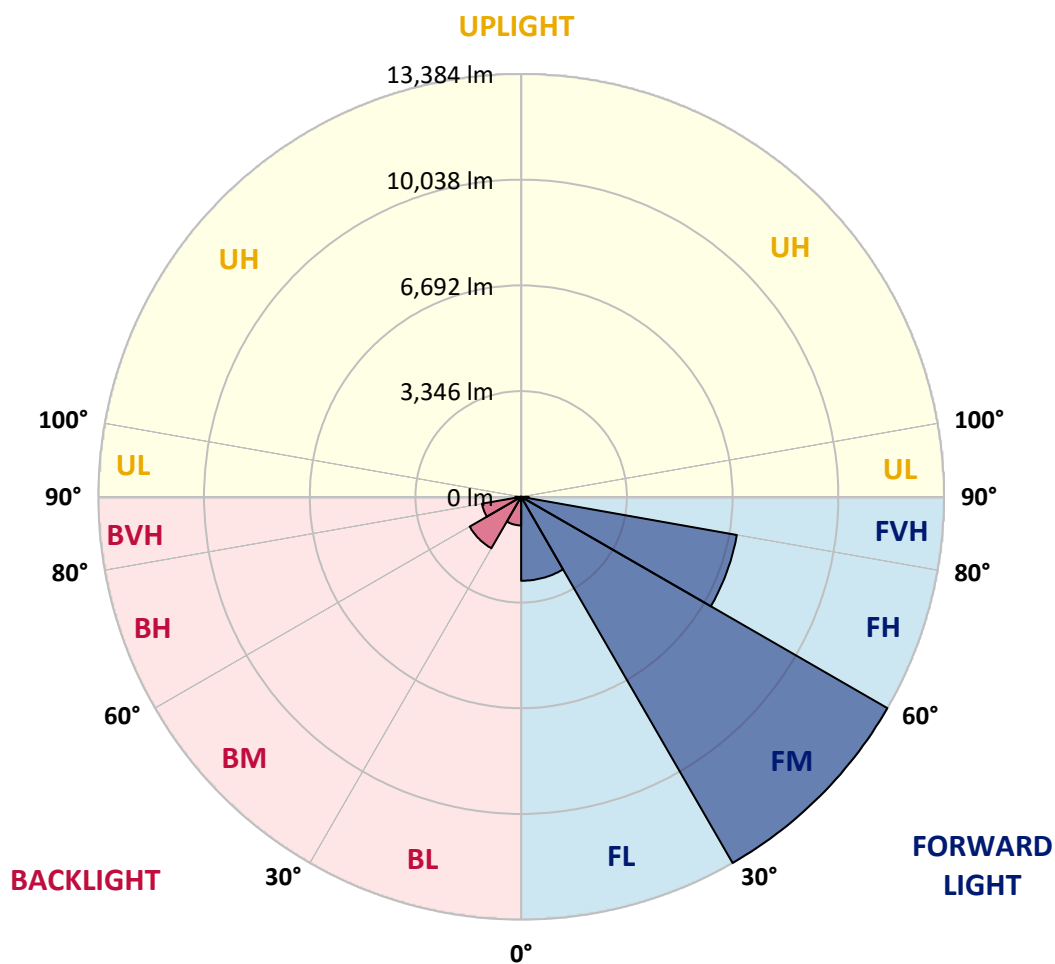
CATALOG NUMBER: GLEON-AF-04-LED-E1-T2R-7060-1200

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2657.7  | 9.7       |                         |      |         |
| FM   | (30°-60°)   | 13384.1 | 48.8      |                         |      |         |
| FH   | (60°-80°)   | 6931.8  | 25.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 237.5   | 0.9       |                         |      | G3/500  |
| BL   | (0°-30°)    | 904.8   | 3.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1883.2  | 6.9       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1257.8  | 4.6       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 185.1   | 0.7       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 57°     | 58°     | 59°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2230.2  | 2230.2  | 2230.2  | 2230.2  | 2230.2  | 2230.2  | 2230.2  | 2230.2  | 2230.2  | 2230.2  | 2230.2  |
| 2.5°  | 2831.6  | 2800.4  | 2808.2  | 2756.2  | 2692.6  | 2609.5  | 2517.2  | 2515.9  | 2517.2  | 2508.1  | 2474.4  |
| 5°    | 3926.5  | 3888.9  | 3874.6  | 3757.7  | 3586.2  | 3342.0  | 3077.1  | 3048.5  | 3036.8  | 3006.9  | 2938.1  |
| 7.5°  | 4725.3  | 4704.6  | 4682.5  | 4594.2  | 4438.3  | 4165.5  | 3809.6  | 3748.6  | 3690.1  | 3675.8  | 3597.9  |
| 10°   | 5241.0  | 5235.8  | 5189.0  | 5165.7  | 5068.3  | 4831.9  | 4485.1  | 4426.6  | 4363.0  | 4340.9  | 4259.0  |
| 12.5° | 5648.9  | 5647.6  | 5625.5  | 5632.0  | 5547.5  | 5376.1  | 5077.3  | 5024.1  | 4977.3  | 4909.8  | 4851.3  |
| 15°   | 5930.7  | 5932.0  | 5964.5  | 6000.9  | 5987.9  | 5872.3  | 5591.7  | 5568.3  | 5528.1  | 5481.3  | 5412.5  |
| 17.5° | 6161.9  | 6168.4  | 6202.2  | 6268.4  | 6339.9  | 6330.8  | 6108.7  | 6089.2  | 6054.1  | 5990.5  | 5954.1  |
| 20°   | 6684.1  | 6708.7  | 6643.8  | 6643.8  | 6651.6  | 6686.7  | 6580.2  | 6564.6  | 6515.2  | 6481.4  | 6452.9  |
| 22.5° | 7566.0  | 7594.6  | 7447.8  | 7298.4  | 7151.7  | 7045.2  | 6938.6  | 6958.1  | 6924.4  | 6901.0  | 6884.1  |
| 25°   | 8711.6  | 8733.7  | 8496.0  | 8244.0  | 7945.3  | 7555.6  | 7291.9  | 7280.3  | 7262.1  | 7247.8  | 7240.0  |
| 27.5° | 9789.7  | 9798.8  | 9574.1  | 9205.2  | 8858.4  | 8298.6  | 7650.4  | 7636.2  | 7614.1  | 7586.8  | 7563.4  |
| 30°   | 10711.9 | 10709.3 | 10478.1 | 10126.1 | 9754.6  | 9135.1  | 8194.7  | 8150.5  | 8085.6  | 8011.5  | 7954.4  |
| 32.5° | 11510.7 | 11506.8 | 11253.5 | 10888.6 | 10498.9 | 9963.8  | 8940.2  | 8849.3  | 8748.0  | 8603.8  | 8516.8  |
| 35°   | 12139.4 | 12136.8 | 11897.8 | 11517.2 | 11070.4 | 10744.4 | 9794.9  | 9683.2  | 9554.6  | 9361.1  | 9227.3  |
| 37.5° | 12377.1 | 12377.1 | 12243.3 | 11983.5 | 11588.7 | 11365.3 | 10744.4 | 10609.3 | 10471.6 | 10252.1 | 10101.4 |
| 40°   | 12238.1 | 12240.7 | 12269.3 | 12221.2 | 12029.0 | 11857.5 | 11630.2 | 11549.7 | 11431.5 | 11234.1 | 11076.9 |
| 42.5° | 11771.8 | 11786.1 | 11975.7 | 12208.2 | 12304.3 | 12277.1 | 12416.1 | 12379.7 | 12296.6 | 12144.6 | 12019.9 |
| 45°   | 11180.8 | 11225.0 | 11432.8 | 11871.8 | 12381.0 | 12639.5 | 13074.6 | 13078.5 | 13062.9 | 12981.1 | 12885.0 |
| 47.5° | 10369.0 | 10431.4 | 10705.4 | 11299.0 | 12201.7 | 12991.5 | 13743.5 | 13778.6 | 13811.1 | 13757.8 | 13713.6 |
| 50°   | 9290.9  | 9365.0  | 9775.4  | 10562.5 | 11836.7 | 13356.4 | 15007.3 | 15165.8 | 15313.9 | 15295.7 | 15325.6 |
| 52.5° | 8136.2  | 8223.2  | 8725.9  | 9602.7  | 11209.4 | 13440.9 | 15815.2 | 16073.7 | 16332.2 | 16543.9 | 16768.6 |
| 55°   | 7094.5  | 7047.8  | 7550.4  | 8473.9  | 10178.1 | 13060.3 | 16541.3 | 16853.0 | 17141.4 | 17401.2 | 17668.7 |
| 57.5° | 5682.6  | 5759.3  | 6263.2  | 7176.3  | 8812.9  | 11986.1 | 17041.4 | 17497.3 | 17911.6 | 18341.6 | 18720.8 |
| 60°   | 4153.8  | 4230.5  | 4777.3  | 5704.7  | 7330.9  | 10357.3 | 16659.5 | 17350.5 | 18014.3 | 18672.8 | 19187.1 |
| 62.5° | 2508.1  | 2565.3  | 3047.2  | 3930.4  | 5652.8  | 8425.9  | 14958.0 | 15864.6 | 16841.4 | 17628.5 | 18416.9 |
| 65°   | 1561.3  | 1593.7  | 1771.7  | 2257.5  | 3630.4  | 6290.5  | 12221.2 | 13209.7 | 14261.8 | 15260.6 | 16080.2 |
| 67.5° | 1278.1  | 1289.8  | 1322.3  | 1426.2  | 1993.8  | 4101.9  | 9096.1  | 9971.5  | 10921.0 | 11887.4 | 12799.2 |
| 70°   | 1149.5  | 1141.7  | 1141.7  | 1148.2  | 1278.1  | 2205.5  | 5955.4  | 6525.6  | 7316.6  | 8157.0  | 8990.9  |
| 72.5° | 1037.8  | 1030.0  | 1015.7  | 996.2   | 1043.0  | 1345.6  | 3078.4  | 3508.3  | 4078.5  | 4825.4  | 5624.2  |
| 75°   | 932.6   | 922.2   | 905.3   | 880.6   | 913.1   | 1015.7  | 1478.1  | 1658.7  | 1936.6  | 2334.1  | 2779.6  |
| 77.5° | 823.5   | 810.5   | 794.9   | 776.7   | 818.3   | 789.7   | 866.4   | 931.3   | 1037.8  | 1165.1  | 1332.7  |
| 80°   | 700.1   | 688.4   | 683.2   | 674.1   | 723.5   | 601.4   | 611.8   | 652.0   | 714.4   | 783.2   | 861.2   |
| 82.5° | 548.1   | 548.1   | 568.9   | 572.8   | 627.4   | 432.5   | 457.2   | 492.3   | 524.7   | 561.1   | 597.5   |
| 85°   | 361.1   | 363.7   | 433.8   | 461.1   | 494.9   | 291.0   | 342.9   | 354.6   | 380.6   | 401.4   | 416.9   |
| 87.5° | 113.0   | 122.1   | 265.0   | 293.5   | 284.5   | 165.0   | 210.4   | 215.6   | 233.8   | 248.1   | 261.1   |
| 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°    | 2230.2  | 2230.2  | 2230.2  | 2230.2  | 2230.2  | 2230.2  | 2230.2  | 2230.2  | 2230.2  | 2230.2  | 2230.2  |
| 2.5°  | 2474.4  | 2458.8  | 2444.5  | 2443.2  | 2432.8  | 2418.5  | 2423.7  | 2401.6  | 2402.9  | 2391.2  | 2378.3  |
| 5°    | 2909.5  | 2899.1  | 2847.2  | 2832.9  | 2793.9  | 2769.2  | 2765.3  | 2713.4  | 2706.9  | 2677.0  | 2644.5  |
| 7.5°  | 3535.6  | 3501.8  | 3429.1  | 3394.0  | 3327.7  | 3278.4  | 3255.0  | 3186.2  | 3152.4  | 3074.5  | 3039.4  |
| 10°   | 4191.5  | 4148.6  | 4059.0  | 4009.7  | 3946.0  | 3866.8  | 3823.9  | 3723.9  | 3684.9  | 3613.5  | 3527.8  |
| 12.5° | 4799.4  | 4756.5  | 4664.3  | 4626.6  | 4542.2  | 4457.8  | 4411.0  | 4298.0  | 4247.4  | 4133.1  | 4065.5  |
| 15°   | 5361.8  | 5318.9  | 5238.4  | 5199.4  | 5115.0  | 5046.2  | 4983.8  | 4872.1  | 4812.4  | 4705.9  | 4617.5  |
| 17.5° | 5907.3  | 5861.9  | 5791.7  | 5756.7  | 5674.8  | 5604.7  | 5537.2  | 5431.9  | 5370.9  | 5264.4  | 5185.2  |
| 20°   | 6413.9  | 6380.1  | 6329.5  | 6282.7  | 6200.9  | 6137.2  | 6056.7  | 5965.8  | 5877.5  | 5799.5  | 5724.2  |
| 22.5° | 6855.5  | 6842.5  | 6788.0  | 6767.2  | 6697.1  | 6642.5  | 6572.4  | 6482.7  | 6419.1  | 6320.4  | 6250.2  |
| 25°   | 7236.1  | 7232.2  | 7206.2  | 7199.7  | 7150.4  | 7098.4  | 7082.8  | 7008.8  | 6950.3  | 6863.3  | 6790.6  |
| 27.5° | 7563.4  | 7567.3  | 7560.8  | 7579.0  | 7566.0  | 7542.6  | 7543.9  | 7519.3  | 7485.5  | 7412.7  | 7349.1  |
| 30°   | 7927.1  | 7906.3  | 7918.0  | 7944.0  | 7951.8  | 7954.4  | 7997.2  | 8011.5  | 8008.9  | 7960.9  | 7929.7  |
| 32.5° | 8441.5  | 8392.1  | 8346.6  | 8342.7  | 8368.7  | 8379.1  | 8451.9  | 8489.5  | 8522.0  | 8533.7  | 8538.9  |
| 35°   | 9097.4  | 8998.7  | 8903.9  | 8853.2  | 8809.0  | 8820.7  | 8872.7  | 8933.7  | 9005.2  | 9054.5  | 9113.0  |
| 37.5° | 9923.5  | 9802.7  | 9635.1  | 9515.6  | 9485.8  | 9420.8  | 9454.6  | 9502.7  | 9572.8  | 9649.4  | 9750.7  |
| 40°   | 10924.9 | 10741.8 | 10553.4 | 10395.0 | 10309.3 | 10189.8 | 10188.5 | 10179.4 | 10222.2 | 10293.7 | 10436.5 |
| 42.5° | 11888.7 | 11726.3 | 11526.3 | 11360.1 | 11248.4 | 11088.6 | 11056.1 | 10971.7 | 10991.2 | 11053.5 | 11192.5 |
| 45°   | 12791.4 | 12657.6 | 12535.5 | 12343.3 | 12248.5 | 12075.7 | 12021.2 | 11921.2 | 11865.3 | 11893.9 | 12032.9 |
| 47.5° | 13665.6 | 13579.9 | 13452.6 | 13327.9 | 13255.1 | 13100.6 | 13030.4 | 12959.0 | 12887.5 | 12885.0 | 13030.4 |
| 50°   | 15369.7 | 15324.3 | 15173.6 | 15043.7 | 15078.8 | 14889.1 | 14900.8 | 14708.6 | 14795.6 | 14806.0 | 15111.2 |
| 52.5° | 16971.2 | 17129.7 | 17241.4 | 17377.8 | 17466.1 | 17483.0 | 17541.5 | 17628.5 | 17733.7 | 17941.5 | 18224.7 |
| 55°   | 17888.3 | 18087.0 | 18202.6 | 18306.5 | 18478.0 | 18514.3 | 18611.7 | 18727.3 | 18819.6 | 19053.4 | 19293.7 |
| 57.5° | 18978.0 | 19346.9 | 19526.2 | 19691.1 | 19922.3 | 20010.6 | 20173.0 | 20299.0 | 20418.5 | 20695.2 | 20986.1 |
| 60°   | 19649.5 | 20099.0 | 20464.0 | 20725.0 | 21014.7 | 21222.5 | 21468.0 | 21665.4 | 21946.0 | 22277.2 | 22711.0 |
| 62.5° | 19115.7 | 19775.5 | 20260.0 | 20708.1 | 21101.7 | 21499.2 | 21851.2 | 22220.0 | 22646.1 | 23147.4 | 23820.3 |
| 65°   | 16989.4 | 17661.0 | 18490.9 | 18955.9 | 19476.8 | 20089.9 | 20625.0 | 21222.5 | 21803.1 | 22533.1 | 23528.0 |
| 67.5° | 13677.3 | 14457.9 | 15390.5 | 15859.4 | 16458.2 | 17142.7 | 17742.8 | 18472.8 | 19150.8 | 20035.3 | 21265.4 |
| 70°   | 9858.5  | 10867.8 | 11652.3 | 12142.0 | 12840.8 | 13546.1 | 14125.4 | 14974.9 | 15536.0 | 16442.6 | 17714.2 |
| 72.5° | 6242.4  | 7038.7  | 7999.8  | 8616.8  | 9237.7  | 9952.1  | 10544.4 | 11276.9 | 11800.4 | 12626.5 | 13778.6 |
| 75°   | 3356.3  | 3943.4  | 4787.7  | 5373.5  | 6038.5  | 6649.0  | 7342.6  | 7833.6  | 8220.7  | 8874.0  | 9809.2  |
| 77.5° | 1573.0  | 1930.1  | 2357.5  | 2808.2  | 3258.9  | 3729.1  | 4186.3  | 4583.8  | 4750.0  | 5124.1  | 5676.1  |
| 80°   | 954.7   | 1070.3  | 1195.0  | 1334.0  | 1522.3  | 1674.3  | 1875.6  | 2021.1  | 2031.5  | 2149.7  | 2318.5  |
| 82.5° | 637.8   | 680.6   | 718.3   | 753.4   | 801.4   | 839.1   | 881.9   | 932.6   | 953.4   | 980.7   | 1035.2  |
| 85°   | 435.1   | 455.9   | 463.7   | 485.8   | 480.6   | 493.6   | 510.5   | 527.3   | 536.4   | 535.1   | 559.8   |
| 87.5° | 267.6   | 278.0   | 283.2   | 288.4   | 284.5   | 279.3   | 287.1   | 296.1   | 298.7   | 291.0   | 293.5   |
| 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):**

|       | 71°     | 72°     | 73°     | 74°     | 75°     | 85°     | 90°     | 95°    | 105°   | 115°   | 125°   |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 2230.2  | 2230.2  | 2230.2  | 2230.2  | 2230.2  | 2230.2  | 2230.2  | 2230.2 | 2230.2 | 2230.2 | 2230.2 |
| 2.5°  | 2380.9  | 2369.2  | 2357.5  | 2349.7  | 2347.1  | 2278.2  | 2248.4  | 2228.9 | 2187.3 | 2153.6 | 2126.3 |
| 5°    | 2626.3  | 2601.7  | 2582.2  | 2558.8  | 2545.8  | 2371.8  | 2308.1  | 2264.0 | 2191.2 | 2148.4 | 2109.4 |
| 7.5°  | 3021.2  | 2952.4  | 2912.1  | 2866.6  | 2827.7  | 2513.3  | 2408.1  | 2339.3 | 2238.0 | 2180.8 | 2136.7 |
| 10°   | 3469.3  | 3397.9  | 3334.2  | 3264.1  | 3203.1  | 2701.7  | 2548.4  | 2441.9 | 2308.1 | 2234.1 | 2175.6 |
| 12.5° | 3969.4  | 3899.3  | 3818.7  | 3729.1  | 3651.2  | 2940.7  | 2727.7  | 2575.7 | 2392.5 | 2293.8 | 2212.0 |
| 15°   | 4560.4  | 4437.0  | 4339.6  | 4235.7  | 4144.7  | 3226.4  | 2936.8  | 2726.4 | 2482.2 | 2348.4 | 2239.3 |
| 17.5° | 5109.8  | 4979.9  | 4847.4  | 4756.5  | 4651.3  | 3547.3  | 3147.2  | 2879.6 | 2556.2 | 2383.5 | 2244.5 |
| 20°   | 5646.3  | 5504.7  | 5390.4  | 5268.3  | 5157.9  | 3879.8  | 3371.9  | 3014.7 | 2604.3 | 2384.8 | 2212.0 |
| 22.5° | 6119.1  | 6030.7  | 5903.4  | 5771.0  | 5659.2  | 4212.3  | 3582.3  | 3129.0 | 2622.5 | 2354.9 | 2154.9 |
| 25°   | 6656.8  | 6563.3  | 6407.4  | 6295.7  | 6171.0  | 4551.3  | 3788.9  | 3217.3 | 2612.1 | 2299.0 | 2066.5 |
| 27.5° | 7230.9  | 7127.0  | 6967.2  | 6850.3  | 6699.7  | 4903.3  | 3978.5  | 3281.0 | 2573.1 | 2208.1 | 1948.3 |
| 30°   | 7829.7  | 7734.9  | 7577.7  | 7459.5  | 7307.5  | 5276.1  | 4190.2  | 3323.8 | 2495.2 | 2082.1 | 1810.6 |
| 32.5° | 8472.6  | 8393.4  | 8237.5  | 8114.1  | 7951.8  | 5680.0  | 4387.6  | 3336.8 | 2377.0 | 1932.7 | 1665.2 |
| 35°   | 9083.1  | 9028.6  | 8897.4  | 8781.8  | 8612.9  | 6061.9  | 4596.8  | 3330.3 | 2236.7 | 1769.1 | 1532.7 |
| 37.5° | 9770.2  | 9737.7  | 9672.8  | 9526.0  | 9319.5  | 6580.2  | 4847.4  | 3303.1 | 2065.2 | 1606.7 | 1431.4 |
| 40°   | 10502.8 | 10505.4 | 10435.3 | 10335.2 | 10143.0 | 7208.8  | 5146.2  | 3249.8 | 1878.2 | 1463.8 | 1339.2 |
| 42.5° | 11278.2 | 11318.5 | 11284.7 | 11213.3 | 11028.8 | 7842.7  | 5503.4  | 3184.9 | 1696.3 | 1324.9 | 1248.2 |
| 45°   | 12166.7 | 12216.0 | 12268.0 | 12162.8 | 11983.5 | 8679.2  | 5973.6  | 3100.4 | 1500.2 | 1209.3 | 1185.9 |
| 47.5° | 13191.5 | 13269.4 | 13316.2 | 13317.5 | 13138.2 | 9715.7  | 6737.3  | 3049.8 | 1326.2 | 1131.3 | 1156.0 |
| 50°   | 15354.1 | 15378.8 | 15489.2 | 15681.5 | 15543.8 | 12114.7 | 8071.3  | 3018.6 | 1208.0 | 1083.3 | 1133.9 |
| 52.5° | 18470.2 | 18741.6 | 18932.6 | 18919.6 | 18732.5 | 13638.3 | 8806.4  | 2857.5 | 1137.8 | 1065.1 | 1123.5 |
| 55°   | 19739.2 | 20078.2 | 20431.5 | 20525.0 | 20379.5 | 14938.5 | 9501.4  | 2696.5 | 1104.1 | 1078.1 | 1127.4 |
| 57.5° | 21430.3 | 22001.8 | 22486.3 | 22690.2 | 22479.8 | 16602.4 | 10415.8 | 2612.1 | 1093.7 | 1113.1 | 1152.1 |
| 60°   | 23405.9 | 24112.5 | 24749.0 | 25115.3 | 25115.3 | 18514.3 | 11364.0 | 2577.0 | 1079.4 | 1165.1 | 1193.7 |
| 62.5° | 24674.9 | 25712.7 | 26673.9 | 27210.4 | 27194.8 | 19845.7 | 11784.8 | 2457.5 | 1046.9 | 1201.5 | 1250.8 |
| 65°   | 24680.1 | 25914.1 | 27138.9 | 27741.6 | 27772.8 | 19682.0 | 11089.9 | 2170.4 | 987.2  | 1206.7 | 1308.0 |
| 67.5° | 22622.7 | 23938.5 | 25365.9 | 26040.1 | 26195.9 | 18118.2 | 9600.1  | 1784.7 | 889.7  | 1154.7 | 1328.8 |
| 70°   | 19106.6 | 20391.2 | 21848.6 | 22511.0 | 22787.7 | 15445.1 | 7732.3  | 1375.5 | 765.0  | 1040.4 | 1285.9 |
| 72.5° | 15052.8 | 16312.7 | 17327.1 | 17811.6 | 18027.2 | 11805.6 | 5630.7  | 1039.1 | 627.4  | 876.7  | 1170.3 |
| 75°   | 10657.4 | 11602.9 | 12142.0 | 12249.8 | 12283.6 | 7116.6  | 3421.3  | 772.8  | 517.0  | 681.9  | 988.5  |
| 77.5° | 6015.1  | 6420.4  | 6376.2  | 6424.3  | 6024.2  | 2747.1  | 1489.8  | 553.3  | 426.0  | 518.3  | 766.3  |
| 80°   | 2348.4  | 2421.1  | 2274.3  | 2228.9  | 2044.4  | 1022.2  | 657.2   | 385.8  | 340.3  | 392.3  | 536.4  |
| 82.5° | 1035.2  | 1069.0  | 1037.8  | 1045.6  | 1000.1  | 527.3   | 393.6   | 279.3  | 259.8  | 287.1  | 355.9  |
| 85°   | 570.2   | 580.6   | 578.0   | 594.9   | 570.2   | 210.4   | 187.0   | 171.5  | 181.8  | 194.8  | 228.6  |
| 87.5° | 278.0   | 280.6   | 271.5   | 285.8   | 276.7   | 106.5   | 92.2    | 97.4   | 106.5  | 109.1  | 109.1  |
| 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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|       | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 2230.2 | 2230.2 | 2230.2 | 2230.2 | 2230.2 | 2230.2 |
| 2.5°  | 2106.8 | 2096.4 | 2097.7 | 2095.1 | 2089.9 | 2089.9 |
| 5°    | 2088.6 | 2078.2 | 2078.2 | 2075.6 | 2069.1 | 2070.4 |
| 7.5°  | 2106.8 | 2089.9 | 2083.4 | 2074.3 | 2065.2 | 2065.2 |
| 10°   | 2127.6 | 2097.7 | 2079.5 | 2063.9 | 2052.2 | 2052.2 |
| 12.5° | 2143.2 | 2096.4 | 2066.5 | 2045.7 | 2034.1 | 2034.1 |
| 15°   | 2148.4 | 2087.3 | 2045.7 | 2021.1 | 2010.7 | 2009.4 |
| 17.5° | 2131.5 | 2052.2 | 2001.6 | 1973.0 | 1960.0 | 1956.1 |
| 20°   | 2079.5 | 1988.6 | 1927.5 | 1895.1 | 1876.9 | 1870.4 |
| 22.5° | 2001.6 | 1897.7 | 1826.2 | 1792.5 | 1769.1 | 1765.2 |
| 25°   | 1892.5 | 1780.8 | 1710.6 | 1678.2 | 1665.2 | 1661.3 |
| 27.5° | 1765.2 | 1661.3 | 1601.5 | 1580.7 | 1569.1 | 1567.8 |
| 30°   | 1644.4 | 1556.1 | 1511.9 | 1496.3 | 1482.0 | 1479.4 |
| 32.5° | 1531.4 | 1475.5 | 1458.6 | 1436.6 | 1402.8 | 1398.9 |
| 35°   | 1450.9 | 1445.7 | 1434.0 | 1384.6 | 1343.0 | 1331.4 |
| 37.5° | 1401.5 | 1449.6 | 1389.8 | 1292.4 | 1262.5 | 1259.9 |
| 40°   | 1372.9 | 1409.3 | 1306.7 | 1272.9 | 1275.5 | 1272.9 |
| 42.5° | 1308.0 | 1345.6 | 1309.3 | 1293.7 | 1304.1 | 1306.7 |
| 45°   | 1243.0 | 1284.6 | 1328.8 | 1318.4 | 1343.0 | 1343.0 |
| 47.5° | 1206.7 | 1269.0 | 1327.5 | 1327.5 | 1363.8 | 1376.8 |
| 50°   | 1165.1 | 1256.0 | 1306.7 | 1324.9 | 1353.4 | 1343.0 |
| 52.5° | 1162.5 | 1233.9 | 1276.8 | 1309.3 | 1322.3 | 1310.6 |
| 55°   | 1166.4 | 1215.8 | 1246.9 | 1283.3 | 1298.9 | 1300.2 |
| 57.5° | 1171.6 | 1205.4 | 1226.1 | 1243.0 | 1289.8 | 1289.8 |
| 60°   | 1184.6 | 1196.3 | 1208.0 | 1217.1 | 1278.1 | 1279.4 |
| 62.5° | 1205.4 | 1187.2 | 1184.6 | 1193.7 | 1271.6 | 1266.4 |
| 65°   | 1237.8 | 1174.2 | 1154.7 | 1163.8 | 1265.1 | 1249.5 |
| 67.5° | 1282.0 | 1154.7 | 1117.0 | 1123.5 | 1259.9 | 1226.1 |
| 70°   | 1322.3 | 1123.5 | 1070.3 | 1063.8 | 1210.6 | 1150.8 |
| 72.5° | 1326.2 | 1087.2 | 1005.3 | 985.9  | 1052.1 | 994.9  |
| 75°   | 1261.2 | 1062.5 | 933.9  | 876.7  | 869.0  | 861.2  |
| 77.5° | 1136.5 | 1048.2 | 850.8  | 761.1  | 745.6  | 750.8  |
| 80°   | 950.8  | 994.9  | 750.8  | 644.2  | 728.7  | 719.6  |
| 82.5° | 710.5  | 878.0  | 637.8  | 570.2  | 568.9  | 502.7  |
| 85°   | 394.9  | 684.5  | 519.6  | 427.3  | 297.4  | 288.4  |
| 87.5° | 110.4  | 380.6  | 363.7  | 241.6  | 165.0  | 171.5  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)