

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: P193136

Luminaire Tested: **GLEON-AF-08-LED-E1-T2R-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193136  
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-08-LED-E1-T2R-7030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31669.9 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - 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



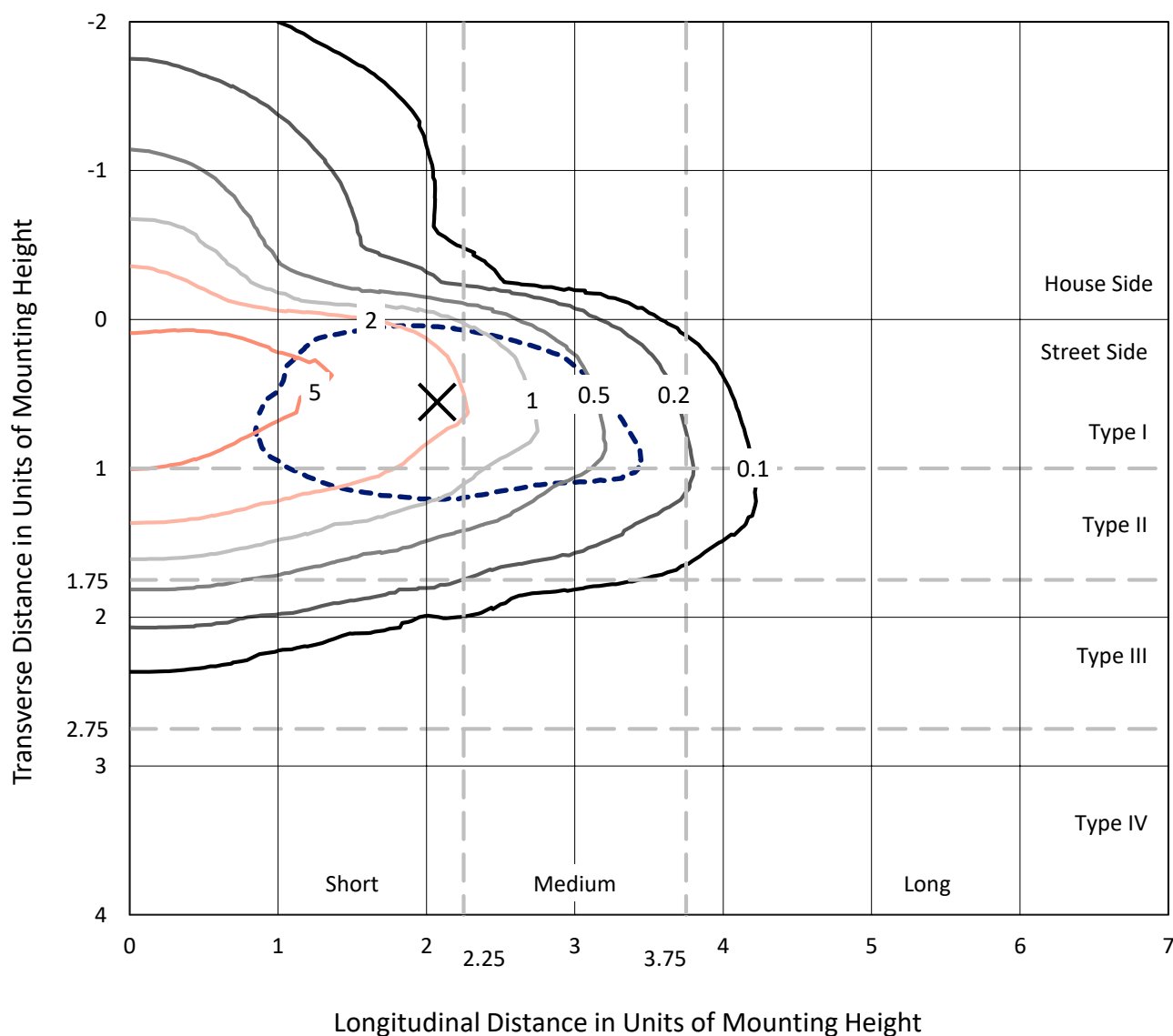
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

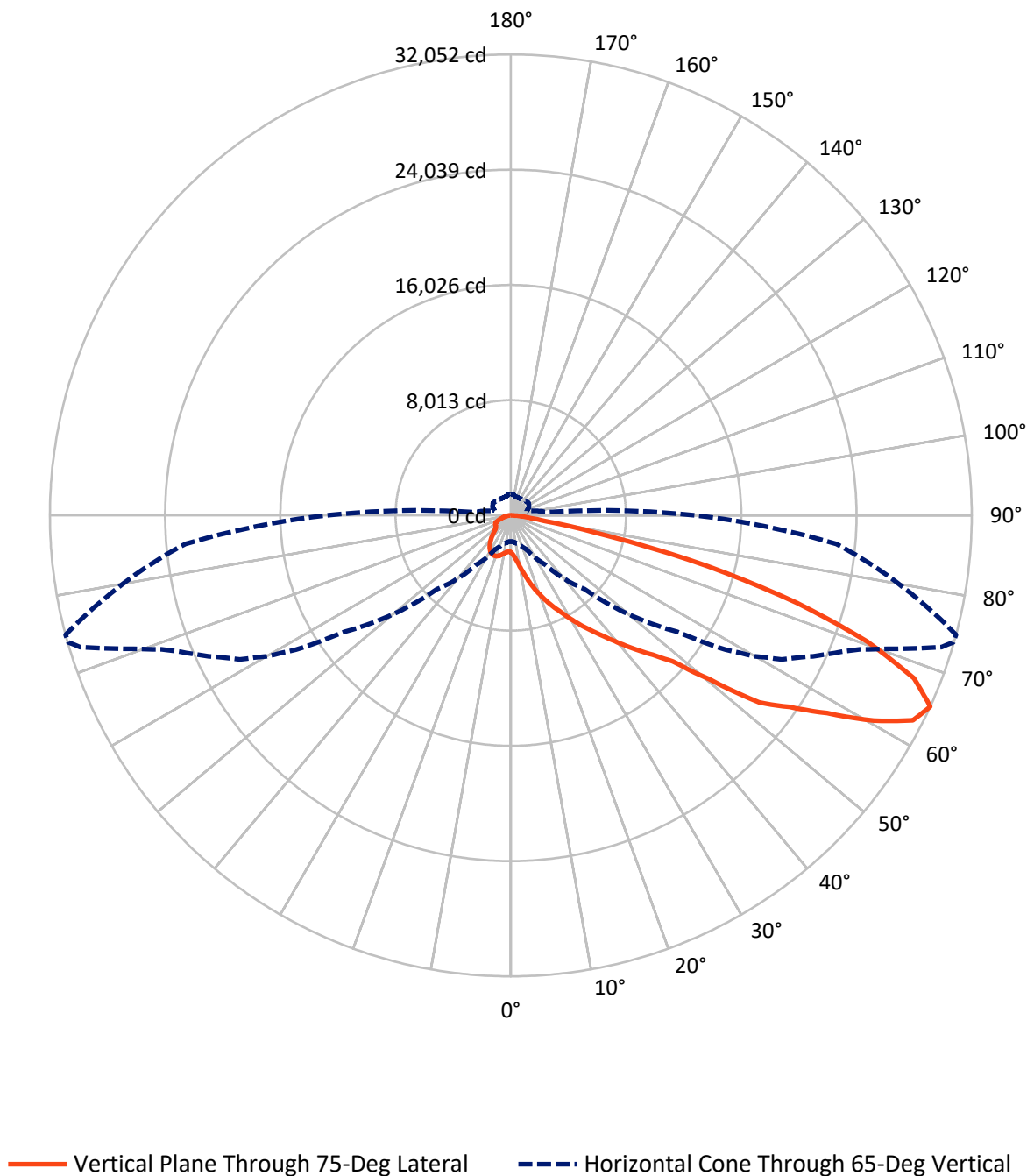


Based on 30 foot mounting height. Maximum calculated value = 8.9 fc  
 Type II - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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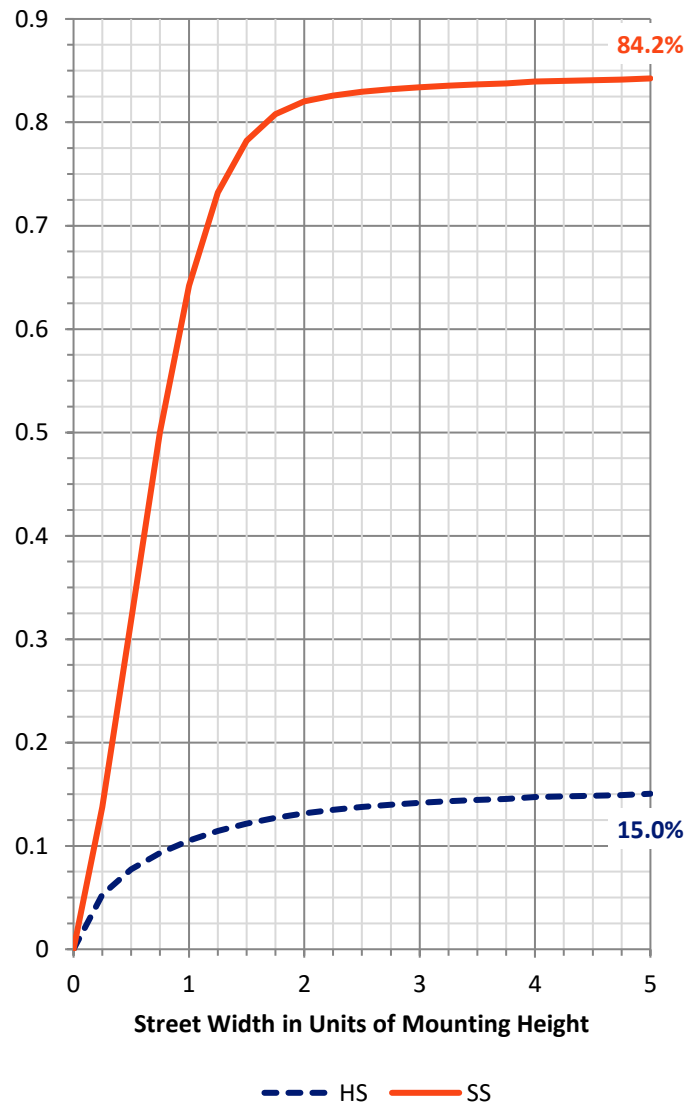
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4882.8   | 0.0    | 4882.8  |
|                    | % Fixture | 15.4     | 0.0    | 15.4    |
| <b>Street Side</b> | Lumens    | 26787.1  | 0.0    | 26787.1 |
|                    | % Fixture | 84.6     | 0.0    | 84.6    |
| <b>Total</b>       | Lumens    | 31669.9  | 0.0    | 31669.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 318.1   | 1.0       |
| 10°-20°   | 1243.0  | 3.9       |
| 20°-30°   | 2550.2  | 8.1       |
| 30°-40°   | 4290.6  | 13.5      |
| 40°-50°   | 5928.4  | 18.7      |
| 50°-60°   | 7400.5  | 23.4      |
| 60°-70°   | 6659.6  | 21.0      |
| 70°-80°   | 2791.7  | 8.8       |
| 80°-90°   | 487.7   | 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°    | 31669.9 | 100.0     |
| 0°-180°   | 31669.9 | 100.0     |

**Coefficient of Utilization**



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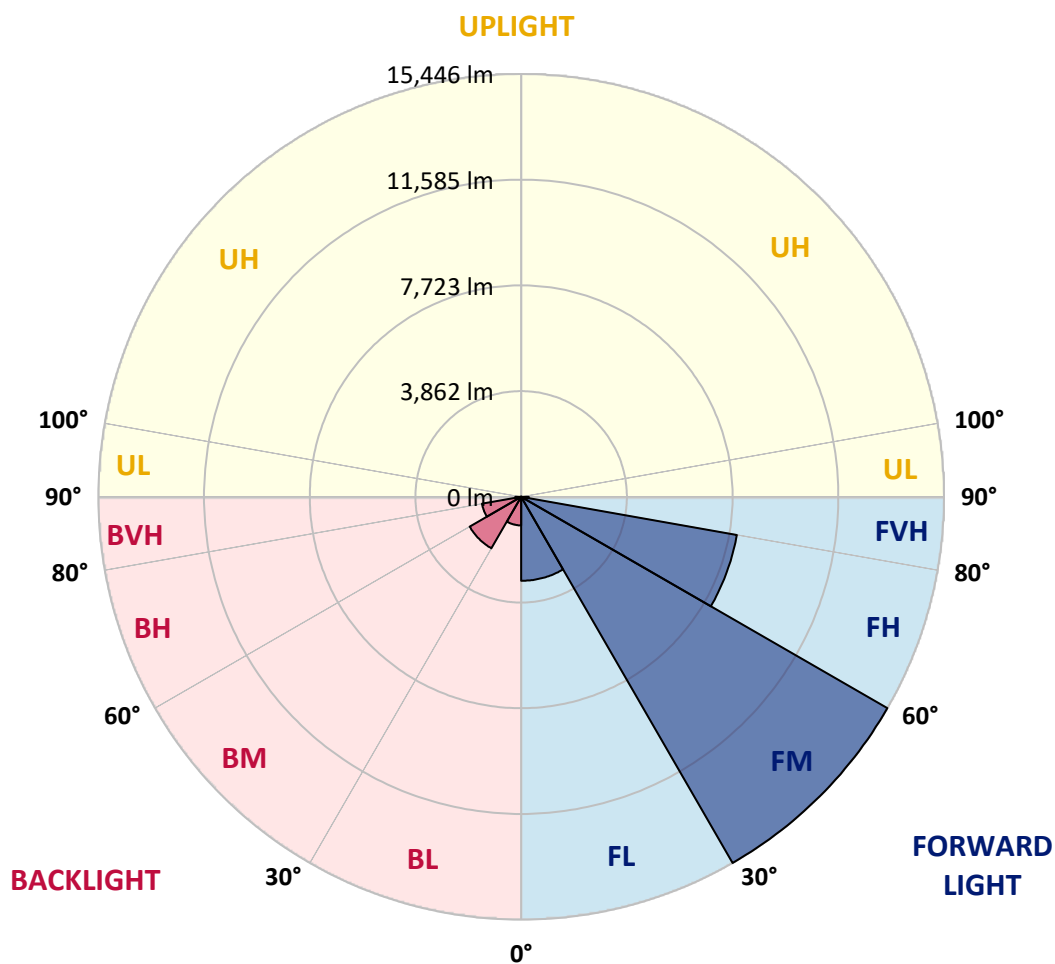
CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-7030-600

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3067.1  | 9.7       |                         |      |          |
| FM   | (30°-60°)   | 15446.2 | 48.8      |                         |      |          |
| FH   | (60°-80°)   | 7999.7  | 25.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 274.1   | 0.9       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1044.2  | 3.3       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2173.4  | 6.9       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1451.6  | 4.6       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 213.6   | 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-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 57°     | 58°     | 59°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2573.8  | 2573.8  | 2573.8  | 2573.8  | 2573.8  | 2573.8  | 2573.8  | 2573.8  | 2573.8  | 2573.8  | 2573.8  |
| 2.5°  | 3267.8  | 3231.9  | 3240.8  | 3180.9  | 3107.5  | 3011.5  | 2905.1  | 2903.6  | 2905.1  | 2894.6  | 2855.6  |
| 5°    | 4531.5  | 4488.1  | 4471.6  | 4336.6  | 4138.7  | 3857.0  | 3551.2  | 3518.1  | 3504.7  | 3470.2  | 3390.8  |
| 7.5°  | 5453.3  | 5429.4  | 5403.9  | 5302.0  | 5122.1  | 4807.3  | 4396.6  | 4326.1  | 4258.7  | 4242.2  | 4152.2  |
| 10°   | 6048.5  | 6042.5  | 5988.5  | 5961.5  | 5849.0  | 5576.3  | 5176.0  | 5108.6  | 5035.1  | 5009.6  | 4915.2  |
| 12.5° | 6519.2  | 6517.7  | 6492.1  | 6499.7  | 6402.3  | 6204.4  | 5859.6  | 5798.2  | 5744.2  | 5666.1  | 5598.8  |
| 15°   | 6844.4  | 6845.9  | 6883.5  | 6925.4  | 6910.4  | 6777.1  | 6453.2  | 6426.2  | 6379.7  | 6325.8  | 6246.4  |
| 17.5° | 7111.2  | 7118.8  | 7157.7  | 7234.2  | 7316.6  | 7306.1  | 7049.9  | 7027.3  | 6986.8  | 6913.4  | 6871.5  |
| 20°   | 7713.8  | 7742.3  | 7667.4  | 7667.4  | 7676.3  | 7716.9  | 7593.9  | 7575.9  | 7519.0  | 7480.0  | 7447.0  |
| 22.5° | 8731.7  | 8764.7  | 8595.3  | 8422.9  | 8253.5  | 8130.5  | 8007.6  | 8030.1  | 7991.2  | 7964.2  | 7944.7  |
| 25°   | 10053.8 | 10079.2 | 9804.9  | 9514.2  | 9169.4  | 8719.7  | 8415.3  | 8401.9  | 8380.9  | 8364.5  | 8355.4  |
| 27.5° | 11298.0 | 11308.5 | 11049.2 | 10623.4 | 10223.2 | 9577.1  | 8829.1  | 8812.7  | 8787.1  | 8755.7  | 8728.7  |
| 30°   | 12362.2 | 12359.3 | 12092.5 | 11686.3 | 11257.5 | 10542.4 | 9457.2  | 9406.2  | 9331.3  | 9245.8  | 9179.9  |
| 32.5° | 13284.2 | 13279.7 | 12987.3 | 12566.1 | 12116.5 | 11498.9 | 10317.6 | 10212.7 | 10095.8 | 9929.4  | 9829.0  |
| 35°   | 14009.7 | 14006.7 | 13730.8 | 13291.6 | 12776.0 | 12399.8 | 11304.0 | 11175.0 | 11026.7 | 10803.3 | 10649.0 |
| 37.5° | 14284.0 | 14284.0 | 14129.6 | 13829.8 | 13374.1 | 13116.2 | 12399.8 | 12243.8 | 12084.9 | 11831.5 | 11657.8 |
| 40°   | 14123.6 | 14126.5 | 14159.6 | 14104.1 | 13882.3 | 13684.4 | 13422.1 | 13329.1 | 13192.7 | 12964.8 | 12783.5 |
| 42.5° | 13585.4 | 13601.9 | 13820.7 | 14089.1 | 14200.0 | 14168.5 | 14329.0 | 14287.0 | 14191.0 | 14015.7 | 13871.8 |
| 45°   | 12903.4 | 12954.4 | 13194.2 | 13700.9 | 14288.5 | 14586.7 | 15088.9 | 15093.4 | 15075.5 | 14981.0 | 14870.0 |
| 47.5° | 11966.5 | 12038.5 | 12354.8 | 13039.8 | 14081.7 | 14993.0 | 15860.9 | 15901.4 | 15938.8 | 15877.4 | 15826.4 |
| 50°   | 10722.3 | 10807.8 | 11281.4 | 12189.8 | 13660.3 | 15414.2 | 17319.4 | 17502.4 | 17673.2 | 17652.3 | 17686.7 |
| 52.5° | 9389.7  | 9490.1  | 10070.3 | 11082.1 | 12936.4 | 15511.6 | 18251.9 | 18550.1 | 18848.5 | 19092.7 | 19352.1 |
| 55°   | 8187.6  | 8133.6  | 8713.7  | 9779.5  | 11746.1 | 15072.5 | 19089.8 | 19449.6 | 19782.3 | 20082.1 | 20390.9 |
| 57.5° | 6558.2  | 6646.6  | 7228.1  | 8282.0  | 10170.7 | 13832.8 | 19666.8 | 20193.1 | 20671.2 | 21167.4 | 21605.2 |
| 60°   | 4793.8  | 4882.2  | 5513.3  | 6583.6  | 8460.4  | 11953.1 | 19226.2 | 20023.6 | 20789.7 | 21549.6 | 22143.2 |
| 62.5° | 2894.6  | 2960.5  | 3516.6  | 4536.0  | 6523.7  | 9724.0  | 17262.5 | 18308.8 | 19436.0 | 20344.4 | 21254.3 |
| 65°   | 1801.8  | 1839.3  | 2044.7  | 2605.3  | 4189.6  | 7259.6  | 14104.1 | 15244.8 | 16459.1 | 17611.7 | 18557.5 |
| 67.5° | 1475.0  | 1488.5  | 1526.1  | 1645.9  | 2301.0  | 4733.8  | 10497.5 | 11507.8 | 12603.6 | 13718.8 | 14771.2 |
| 70°   | 1326.6  | 1317.6  | 1317.6  | 1325.1  | 1475.0  | 2545.3  | 6873.0  | 7531.0  | 8443.9  | 9413.8  | 10376.2 |
| 72.5° | 1197.7  | 1188.7  | 1172.3  | 1149.7  | 1203.7  | 1553.0  | 3552.7  | 4048.8  | 4706.9  | 5568.8  | 6490.6  |
| 75°   | 1076.3  | 1064.3  | 1044.8  | 1016.3  | 1053.8  | 1172.3  | 1705.9  | 1914.2  | 2235.0  | 2693.7  | 3207.9  |
| 77.5° | 950.3   | 935.4   | 917.3   | 896.4   | 944.3   | 911.4   | 999.8   | 1074.8  | 1197.7  | 1344.7  | 1538.0  |
| 80°   | 808.0   | 794.5   | 788.6   | 778.0   | 835.0   | 694.1   | 706.1   | 752.5   | 824.5   | 903.9   | 993.8   |
| 82.5° | 632.6   | 632.6   | 656.5   | 661.0   | 724.1   | 499.2   | 527.6   | 568.1   | 605.7   | 647.6   | 689.5   |
| 85°   | 416.8   | 419.8   | 500.6   | 532.1   | 571.1   | 335.8   | 395.7   | 409.1   | 439.2   | 463.2   | 481.2   |
| 87.5° | 130.4   | 141.0   | 305.8   | 338.8   | 328.4   | 190.3   | 242.9   | 248.8   | 269.9   | 286.3   | 301.3   |
| 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):**

|       | 60°     | 61°     | 62°     | 63°     | 64°     | 65°     | 66°     | 67°     | 68°     | 69°     | 70°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2573.8  | 2573.8  | 2573.8  | 2573.8  | 2573.8  | 2573.8  | 2573.8  | 2573.8  | 2573.8  | 2573.8  | 2573.8  |
| 2.5°  | 2855.6  | 2837.6  | 2821.1  | 2819.7  | 2807.6  | 2791.1  | 2797.1  | 2771.7  | 2773.1  | 2759.7  | 2744.7  |
| 5°    | 3357.7  | 3345.7  | 3285.9  | 3269.4  | 3224.3  | 3195.9  | 3191.4  | 3131.4  | 3123.9  | 3089.5  | 3051.9  |
| 7.5°  | 4080.3  | 4041.3  | 3957.4  | 3916.8  | 3840.5  | 3783.4  | 3756.5  | 3677.0  | 3638.2  | 3548.0  | 3507.7  |
| 10°   | 4837.2  | 4787.8  | 4684.4  | 4627.4  | 4553.9  | 4462.4  | 4413.1  | 4297.6  | 4252.7  | 4170.2  | 4071.3  |
| 12.5° | 5538.8  | 5489.3  | 5382.8  | 5339.4  | 5242.0  | 5144.6  | 5090.6  | 4960.2  | 4901.7  | 4769.8  | 4691.9  |
| 15°   | 6187.9  | 6138.4  | 6045.5  | 6000.5  | 5903.1  | 5823.6  | 5751.6  | 5622.7  | 5553.7  | 5430.8  | 5328.9  |
| 17.5° | 6817.4  | 6765.0  | 6684.1  | 6643.6  | 6549.1  | 6468.1  | 6390.2  | 6268.9  | 6198.4  | 6075.5  | 5984.0  |
| 20°   | 7402.1  | 7363.1  | 7304.6  | 7250.7  | 7156.3  | 7082.7  | 6989.9  | 6884.9  | 6783.0  | 6693.0  | 6606.2  |
| 22.5° | 7911.7  | 7896.7  | 7833.8  | 7809.8  | 7728.9  | 7665.8  | 7585.0  | 7481.5  | 7408.1  | 7294.1  | 7213.2  |
| 25°   | 8350.9  | 8346.5  | 8316.5  | 8308.9  | 8252.1  | 8192.0  | 8174.0  | 8088.6  | 8021.2  | 7920.7  | 7836.7  |
| 27.5° | 8728.7  | 8733.2  | 8725.7  | 8746.6  | 8731.7  | 8704.6  | 8706.3  | 8677.7  | 8638.7  | 8554.8  | 8481.4  |
| 30°   | 9148.4  | 9124.5  | 9137.9  | 9167.8  | 9176.9  | 9179.9  | 9229.3  | 9245.8  | 9242.8  | 9187.4  | 9151.4  |
| 32.5° | 9742.0  | 9685.1  | 9632.7  | 9628.0  | 9658.1  | 9670.1  | 9754.0  | 9797.5  | 9835.0  | 9848.4  | 9854.4  |
| 35°   | 10499.0 | 10385.1 | 10275.7 | 10217.2 | 10166.2 | 10179.6 | 10239.7 | 10310.1 | 10392.5 | 10449.5 | 10517.0 |
| 37.5° | 11452.3 | 11312.9 | 11119.6 | 10981.6 | 10947.2 | 10872.3 | 10911.1 | 10966.7 | 11047.6 | 11136.0 | 11253.0 |
| 40°   | 12608.1 | 12396.8 | 12179.3 | 11996.5 | 11897.6 | 11759.7 | 11758.2 | 11747.7 | 11797.2 | 11879.5 | 12044.5 |
| 42.5° | 13720.3 | 13533.0 | 13302.1 | 13110.2 | 12981.3 | 12797.0 | 12759.6 | 12662.0 | 12684.6 | 12756.4 | 12916.8 |
| 45°   | 14762.1 | 14607.8 | 14466.9 | 14245.0 | 14135.5 | 13936.2 | 13873.3 | 13757.8 | 13693.4 | 13726.4 | 13886.8 |
| 47.5° | 15771.0 | 15672.0 | 15525.2 | 15381.3 | 15297.3 | 15119.0 | 15038.0 | 14955.5 | 14873.1 | 14870.0 | 15038.0 |
| 50°   | 17737.7 | 17685.2 | 17511.3 | 17361.4 | 17401.9 | 17183.1 | 17196.6 | 16974.7 | 17075.1 | 17087.0 | 17439.4 |
| 52.5° | 19586.0 | 19768.9 | 19897.8 | 20055.1 | 20157.0 | 20176.6 | 20244.0 | 20344.4 | 20465.9 | 20705.7 | 21032.5 |
| 55°   | 20644.2 | 20873.6 | 21007.0 | 21126.9 | 21324.7 | 21366.7 | 21479.2 | 21612.6 | 21719.0 | 21988.9 | 22266.2 |
| 57.5° | 21901.9 | 22327.5 | 22534.5 | 22724.9 | 22991.7 | 23093.6 | 23281.0 | 23426.4 | 23564.3 | 23883.5 | 24219.4 |
| 60°   | 22676.9 | 23195.5 | 23616.7 | 23918.1 | 24252.4 | 24492.2 | 24775.5 | 25003.3 | 25327.2 | 25709.4 | 26209.9 |
| 62.5° | 22060.7 | 22822.3 | 23381.4 | 23898.6 | 24352.8 | 24811.4 | 25217.7 | 25643.3 | 26135.1 | 26713.7 | 27490.1 |
| 65°   | 19606.9 | 20381.9 | 21339.8 | 21876.4 | 22477.5 | 23185.1 | 23802.6 | 24492.2 | 25162.2 | 26004.7 | 27152.9 |
| 67.5° | 15784.4 | 16685.4 | 17761.6 | 18302.8 | 18993.8 | 19783.8 | 20476.4 | 21318.7 | 22101.3 | 23122.1 | 24541.6 |
| 70°   | 11377.3 | 12542.1 | 13447.5 | 14012.6 | 14819.2 | 15633.1 | 16301.6 | 17282.0 | 17929.6 | 18975.8 | 20443.4 |
| 72.5° | 7204.2  | 8123.1  | 9232.3  | 9944.3  | 10660.9 | 11485.4 | 12168.9 | 13014.3 | 13618.4 | 14571.8 | 15901.4 |
| 75°   | 3873.5  | 4550.9  | 5525.3  | 6201.3  | 6968.9  | 7673.4  | 8473.8  | 9040.4  | 9487.2  | 10241.2 | 11320.5 |
| 77.5° | 1815.4  | 2227.5  | 2720.7  | 3240.8  | 3761.0  | 4303.6  | 4831.2  | 5290.0  | 5481.9  | 5913.5  | 6550.6  |
| 80°   | 1101.8  | 1235.1  | 1379.1  | 1539.5  | 1756.8  | 1932.2  | 2164.5  | 2332.4  | 2344.4  | 2480.8  | 2675.8  |
| 82.5° | 736.0   | 785.5   | 829.0   | 869.3   | 924.9   | 968.4   | 1017.9  | 1076.3  | 1100.2  | 1131.7  | 1194.8  |
| 85°   | 502.1   | 526.2   | 535.2   | 560.6   | 554.6   | 569.6   | 589.1   | 608.6   | 619.1   | 617.7   | 646.0   |
| 87.5° | 308.7   | 320.7   | 326.8   | 332.8   | 328.4   | 322.4   | 331.3   | 341.8   | 344.8   | 335.8   | 338.8   |
| 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°    | 2573.8  | 2573.8  | 2573.8  | 2573.8  | 2573.8  | 2573.8  | 2573.8  | 2573.8 | 2573.8 | 2573.8 | 2573.8 |
| 2.5°  | 2747.7  | 2734.2  | 2720.7  | 2711.7  | 2708.6  | 2629.3  | 2594.8  | 2572.3 | 2524.3 | 2485.3 | 2453.9 |
| 5°    | 3031.0  | 3002.5  | 2980.0  | 2953.1  | 2938.1  | 2737.2  | 2663.7  | 2612.7 | 2528.8 | 2479.3 | 2434.4 |
| 7.5°  | 3486.7  | 3407.2  | 3360.7  | 3308.3  | 3263.3  | 2900.7  | 2779.1  | 2699.7 | 2582.8 | 2516.8 | 2465.9 |
| 10°   | 4003.8  | 3921.5  | 3847.9  | 3767.0  | 3696.6  | 3117.9  | 2941.0  | 2818.2 | 2663.7 | 2578.3 | 2510.8 |
| 12.5° | 4580.9  | 4500.0  | 4407.1  | 4303.6  | 4213.7  | 3393.7  | 3147.9  | 2972.5 | 2761.2 | 2647.3 | 2552.9 |
| 15°   | 5263.0  | 5120.6  | 5008.1  | 4888.3  | 4783.3  | 3723.5  | 3389.2  | 3146.4 | 2864.6 | 2710.1 | 2584.3 |
| 17.5° | 5897.0  | 5747.1  | 5594.3  | 5489.3  | 5367.9  | 4093.7  | 3632.1  | 3323.3 | 2950.0 | 2750.7 | 2590.3 |
| 20°   | 6516.1  | 6352.8  | 6220.9  | 6079.9  | 5952.6  | 4477.6  | 3891.4  | 3479.2 | 3005.5 | 2752.1 | 2552.9 |
| 22.5° | 7061.8  | 6959.9  | 6813.0  | 6660.0  | 6531.2  | 4861.3  | 4134.3  | 3611.1 | 3026.5 | 2717.8 | 2486.8 |
| 25°   | 7682.3  | 7574.4  | 7394.5  | 7265.6  | 7121.7  | 5252.5  | 4372.5  | 3713.0 | 3014.5 | 2653.3 | 2384.9 |
| 27.5° | 8344.9  | 8225.0  | 8040.6  | 7905.8  | 7731.8  | 5658.7  | 4591.4  | 3786.5 | 2969.5 | 2548.3 | 2248.5 |
| 30°   | 9036.0  | 8926.6  | 8745.2  | 8608.7  | 8433.4  | 6088.9  | 4835.9  | 3836.0 | 2879.5 | 2402.9 | 2089.6 |
| 32.5° | 9777.9  | 9686.5  | 9506.6  | 9364.3  | 9176.9  | 6555.1  | 5063.6  | 3851.0 | 2743.2 | 2230.5 | 1921.8 |
| 35°   | 10482.6 | 10419.5 | 10268.1 | 10134.8 | 9939.9  | 6995.9  | 5305.0  | 3843.4 | 2581.2 | 2041.6 | 1768.8 |
| 37.5° | 11275.4 | 11238.0 | 11163.0 | 10993.6 | 10755.4 | 7593.9  | 5594.3  | 3811.9 | 2383.4 | 1854.2 | 1651.9 |
| 40°   | 12120.9 | 12124.0 | 12043.0 | 11927.5 | 11705.7 | 8319.4  | 5939.0  | 3750.6 | 2167.6 | 1689.3 | 1545.5 |
| 42.5° | 13015.8 | 13062.3 | 13023.2 | 12940.8 | 12728.0 | 9050.9  | 6351.2  | 3675.6 | 1957.7 | 1529.0 | 1440.6 |
| 45°   | 14041.1 | 14098.0 | 14158.1 | 14036.6 | 13829.8 | 10016.4 | 6893.9  | 3578.1 | 1731.3 | 1395.6 | 1368.6 |
| 47.5° | 15223.8 | 15313.8 | 15367.8 | 15369.3 | 15162.4 | 11212.5 | 7775.3  | 3519.7 | 1530.5 | 1305.6 | 1334.2 |
| 50°   | 17719.6 | 17748.2 | 17875.6 | 18097.4 | 17938.5 | 13981.2 | 9314.8  | 3483.7 | 1394.0 | 1250.2 | 1308.6 |
| 52.5° | 21315.8 | 21629.1 | 21849.4 | 21834.5 | 21618.6 | 15739.6 | 10163.2 | 3297.8 | 1313.1 | 1229.1 | 1296.7 |
| 55°   | 22780.3 | 23171.6 | 23579.2 | 23687.2 | 23519.3 | 17240.0 | 10965.1 | 3111.9 | 1274.2 | 1244.1 | 1301.2 |
| 57.5° | 24732.0 | 25391.6 | 25950.7 | 26186.0 | 25943.2 | 19160.2 | 12020.4 | 3014.5 | 1262.2 | 1284.7 | 1329.5 |
| 60°   | 27011.9 | 27827.5 | 28562.0 | 28984.7 | 28984.7 | 21366.7 | 13114.7 | 2974.0 | 1245.7 | 1344.7 | 1377.5 |
| 62.5° | 28476.6 | 29674.3 | 30783.5 | 31402.5 | 31384.6 | 22903.3 | 13600.5 | 2836.2 | 1208.2 | 1386.6 | 1443.6 |
| 65°   | 28482.5 | 29906.6 | 31320.2 | 32015.7 | 32051.6 | 22714.4 | 12798.5 | 2504.9 | 1139.2 | 1392.6 | 1509.5 |
| 67.5° | 26108.0 | 27626.5 | 29274.0 | 30052.0 | 30231.8 | 20909.6 | 11079.1 | 2059.6 | 1026.8 | 1332.6 | 1533.5 |
| 70°   | 22050.2 | 23532.8 | 25214.8 | 25979.2 | 26298.4 | 17824.7 | 8923.5  | 1587.4 | 883.0  | 1200.6 | 1484.0 |
| 72.5° | 17371.9 | 18825.9 | 19996.6 | 20555.8 | 20804.6 | 13624.4 | 6498.2  | 1199.2 | 724.1  | 1011.8 | 1350.6 |
| 75°   | 12299.4 | 13390.6 | 14012.6 | 14137.0 | 14176.1 | 8213.0  | 3948.4  | 891.9  | 596.5  | 787.0  | 1140.7 |
| 77.5° | 6941.9  | 7409.5  | 7358.6  | 7414.0  | 6952.3  | 3170.3  | 1719.3  | 638.6  | 491.6  | 598.0  | 884.5  |
| 80°   | 2710.1  | 2794.1  | 2624.7  | 2572.3  | 2359.5  | 1179.7  | 758.5   | 445.2  | 392.8  | 452.7  | 619.1  |
| 82.5° | 1194.8  | 1233.6  | 1197.7  | 1206.7  | 1154.3  | 608.6   | 454.2   | 322.4  | 299.8  | 331.3  | 410.7  |
| 85°   | 658.1   | 670.1   | 667.0   | 686.5   | 658.1   | 242.9   | 215.9   | 197.9  | 209.9  | 224.8  | 263.9  |
| 87.5° | 320.7   | 323.7   | 313.2   | 329.8   | 319.2   | 122.9   | 106.4   | 112.4  | 122.9  | 125.8  | 125.8  |
| 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°    | 2573.8 | 2573.8 | 2573.8 | 2573.8 | 2573.8 | 2573.8 |
| 2.5°  | 2431.3 | 2419.4 | 2420.8 | 2417.9 | 2411.9 | 2411.9 |
| 5°    | 2410.4 | 2398.3 | 2398.3 | 2395.4 | 2387.9 | 2389.4 |
| 7.5°  | 2431.3 | 2411.9 | 2404.4 | 2393.9 | 2383.4 | 2383.4 |
| 10°   | 2455.4 | 2420.8 | 2399.9 | 2382.0 | 2368.4 | 2368.4 |
| 12.5° | 2473.3 | 2419.4 | 2384.9 | 2360.9 | 2347.4 | 2347.4 |
| 15°   | 2479.3 | 2408.9 | 2360.9 | 2332.4 | 2320.4 | 2318.9 |
| 17.5° | 2459.9 | 2368.4 | 2310.0 | 2277.0 | 2262.0 | 2257.6 |
| 20°   | 2399.9 | 2295.0 | 2224.5 | 2187.1 | 2166.1 | 2158.5 |
| 22.5° | 2310.0 | 2190.0 | 2107.6 | 2068.6 | 2041.6 | 2037.1 |
| 25°   | 2184.1 | 2055.1 | 1974.2 | 1936.7 | 1921.8 | 1917.2 |
| 27.5° | 2037.1 | 1917.2 | 1848.2 | 1824.3 | 1810.8 | 1809.4 |
| 30°   | 1897.8 | 1795.7 | 1744.9 | 1726.9 | 1710.4 | 1707.4 |
| 32.5° | 1767.3 | 1703.0 | 1683.3 | 1657.9 | 1618.9 | 1614.5 |
| 35°   | 1674.4 | 1668.4 | 1655.0 | 1597.9 | 1550.0 | 1536.5 |
| 37.5° | 1617.5 | 1672.9 | 1603.9 | 1491.5 | 1457.1 | 1454.0 |
| 40°   | 1584.5 | 1626.5 | 1508.0 | 1469.0 | 1472.0 | 1469.0 |
| 42.5° | 1509.5 | 1553.0 | 1510.9 | 1493.0 | 1505.0 | 1508.0 |
| 45°   | 1434.6 | 1482.5 | 1533.5 | 1521.4 | 1550.0 | 1550.0 |
| 47.5° | 1392.6 | 1464.5 | 1532.1 | 1532.1 | 1574.0 | 1588.9 |
| 50°   | 1344.7 | 1449.6 | 1508.0 | 1529.0 | 1562.0 | 1550.0 |
| 52.5° | 1341.6 | 1424.0 | 1473.5 | 1510.9 | 1526.1 | 1512.4 |
| 55°   | 1346.1 | 1403.1 | 1439.1 | 1481.0 | 1499.0 | 1500.4 |
| 57.5° | 1352.1 | 1391.1 | 1415.0 | 1434.6 | 1488.5 | 1488.5 |
| 60°   | 1367.1 | 1380.6 | 1394.0 | 1404.5 | 1475.0 | 1476.5 |
| 62.5° | 1391.1 | 1370.1 | 1367.1 | 1377.5 | 1467.6 | 1461.6 |
| 65°   | 1428.6 | 1355.2 | 1332.6 | 1343.2 | 1460.0 | 1442.0 |
| 67.5° | 1479.5 | 1332.6 | 1289.1 | 1296.7 | 1454.0 | 1415.0 |
| 70°   | 1526.1 | 1296.7 | 1235.1 | 1227.6 | 1397.1 | 1328.1 |
| 72.5° | 1530.5 | 1254.7 | 1160.3 | 1137.7 | 1214.2 | 1148.2 |
| 75°   | 1455.6 | 1226.2 | 1077.8 | 1011.8 | 1002.8 | 993.8  |
| 77.5° | 1311.6 | 1209.7 | 981.8  | 878.5  | 860.4  | 866.4  |
| 80°   | 1097.3 | 1148.2 | 866.4  | 743.5  | 841.0  | 830.5  |
| 82.5° | 820.0  | 1013.3 | 736.0  | 658.1  | 656.5  | 580.1  |
| 85°   | 455.7  | 790.0  | 599.7  | 493.2  | 343.3  | 332.8  |
| 87.5° | 127.4  | 439.2  | 419.8  | 278.8  | 190.3  | 197.9  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)