

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: P194763

Luminaire Tested: **GLEON-AF-05-LED-E1-T2R-7060-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194763  
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-05-LED-E1-T2R-7060-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 34000 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 320  
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



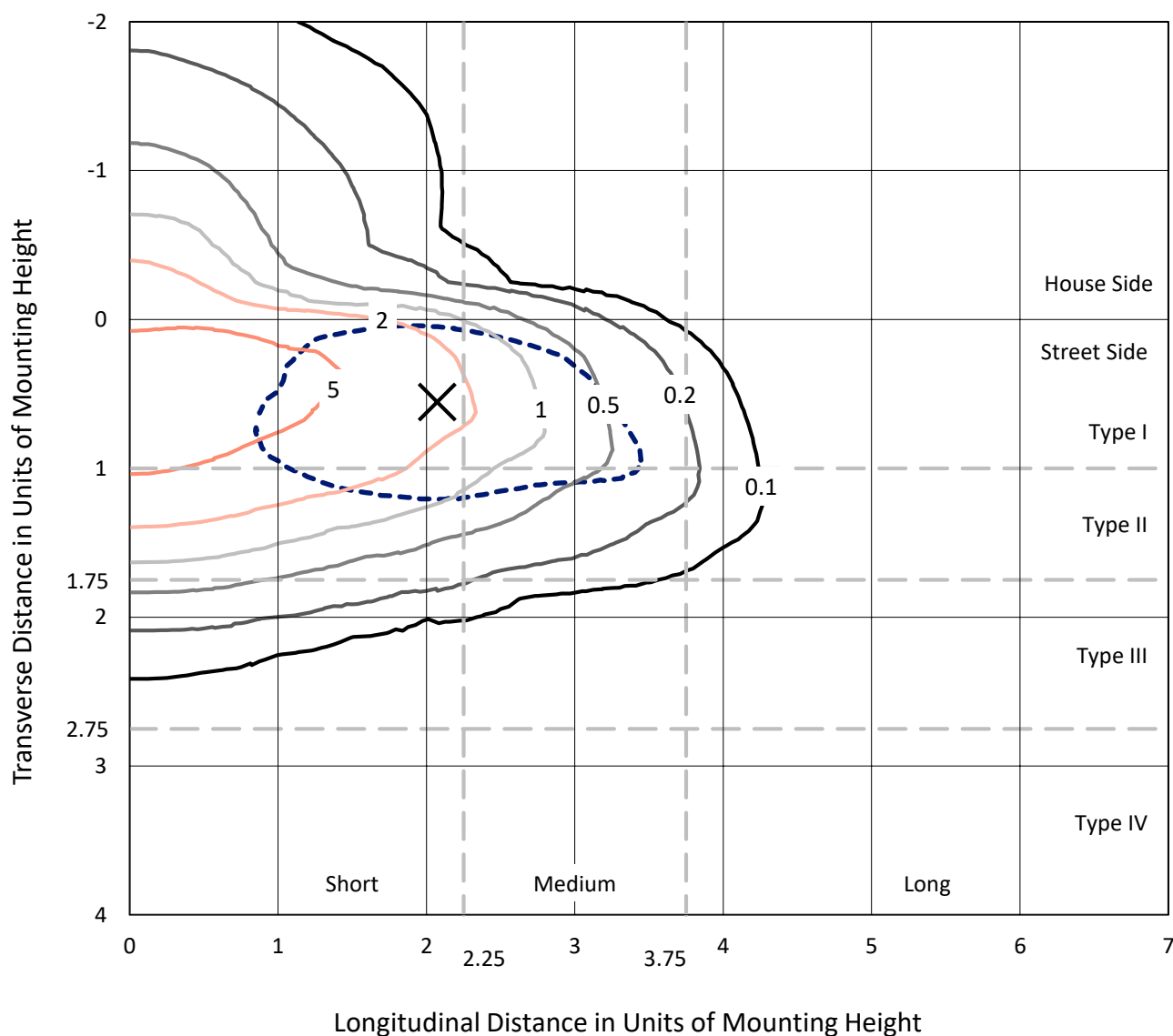
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

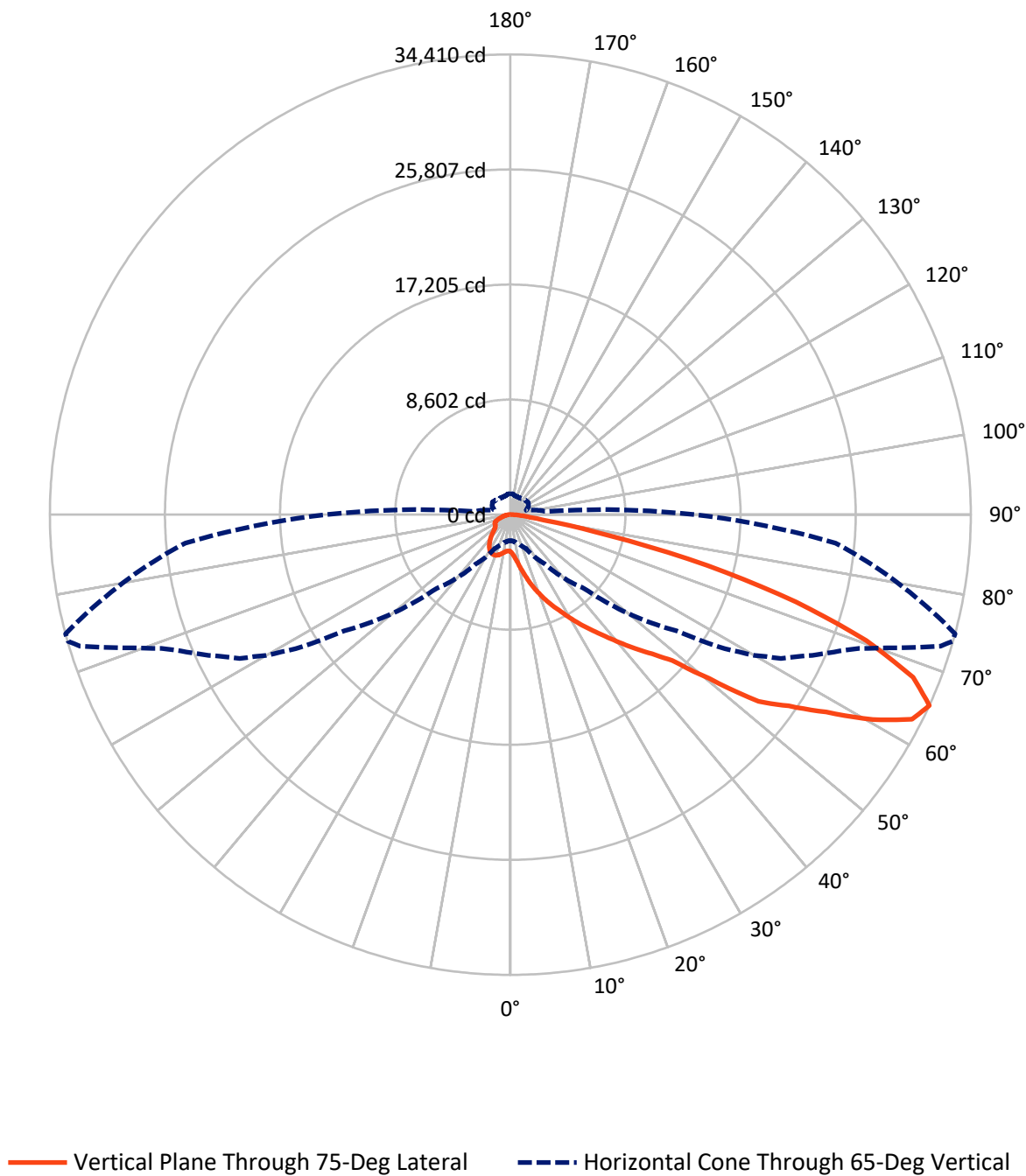


Based on 30 foot mounting height. Maximum calculated value = 9.5 fc  
 Type II - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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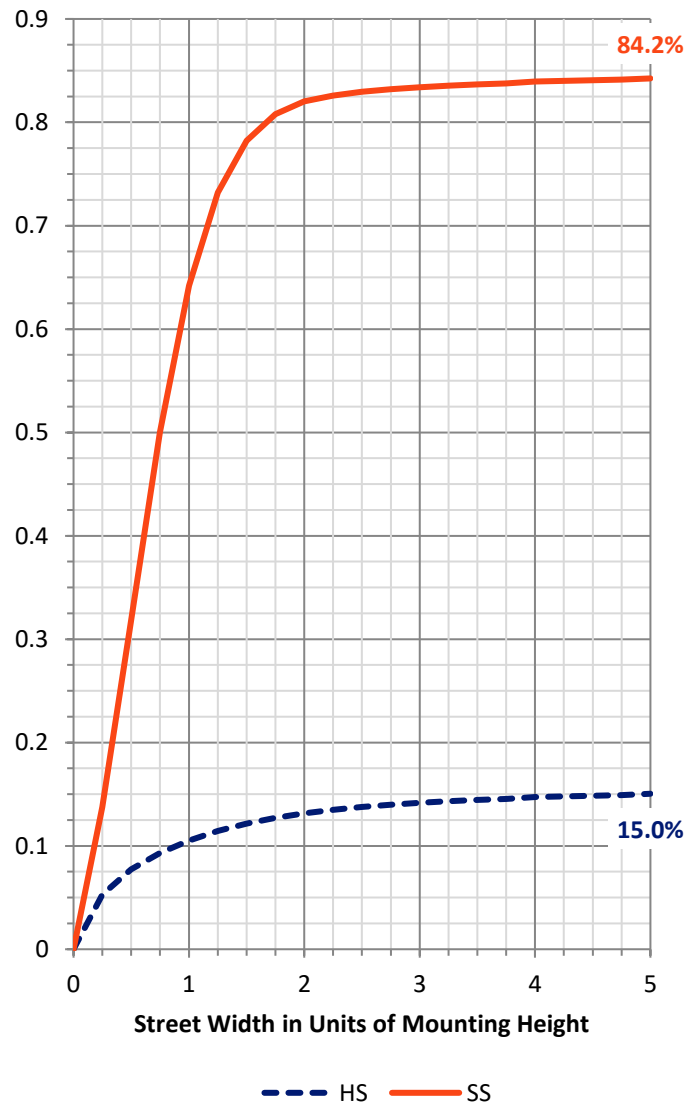
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5242.0   | 0.0    | 5242.0  |
|                    | % Fixture | 15.4     | 0.0    | 15.4    |
| <b>Street Side</b> | Lumens    | 28758.0  | 0.0    | 28758.0 |
|                    | % Fixture | 84.6     | 0.0    | 84.6    |
| <b>Total</b>       | Lumens    | 34000.0  | 0.0    | 34000.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 341.5   | 1.0       |
| 10°-20°   | 1334.5  | 3.9       |
| 20°-30°   | 2737.9  | 8.1       |
| 30°-40°   | 4606.3  | 13.5      |
| 40°-50°   | 6364.6  | 18.7      |
| 50°-60°   | 7945.0  | 23.4      |
| 60°-70°   | 7149.6  | 21.0      |
| 70°-80°   | 2997.1  | 8.8       |
| 80°-90°   | 523.6   | 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°    | 34000.0 | 100.0     |
| 0°-180°   | 34000.0 | 100.0     |

**Coefficient of Utilization**



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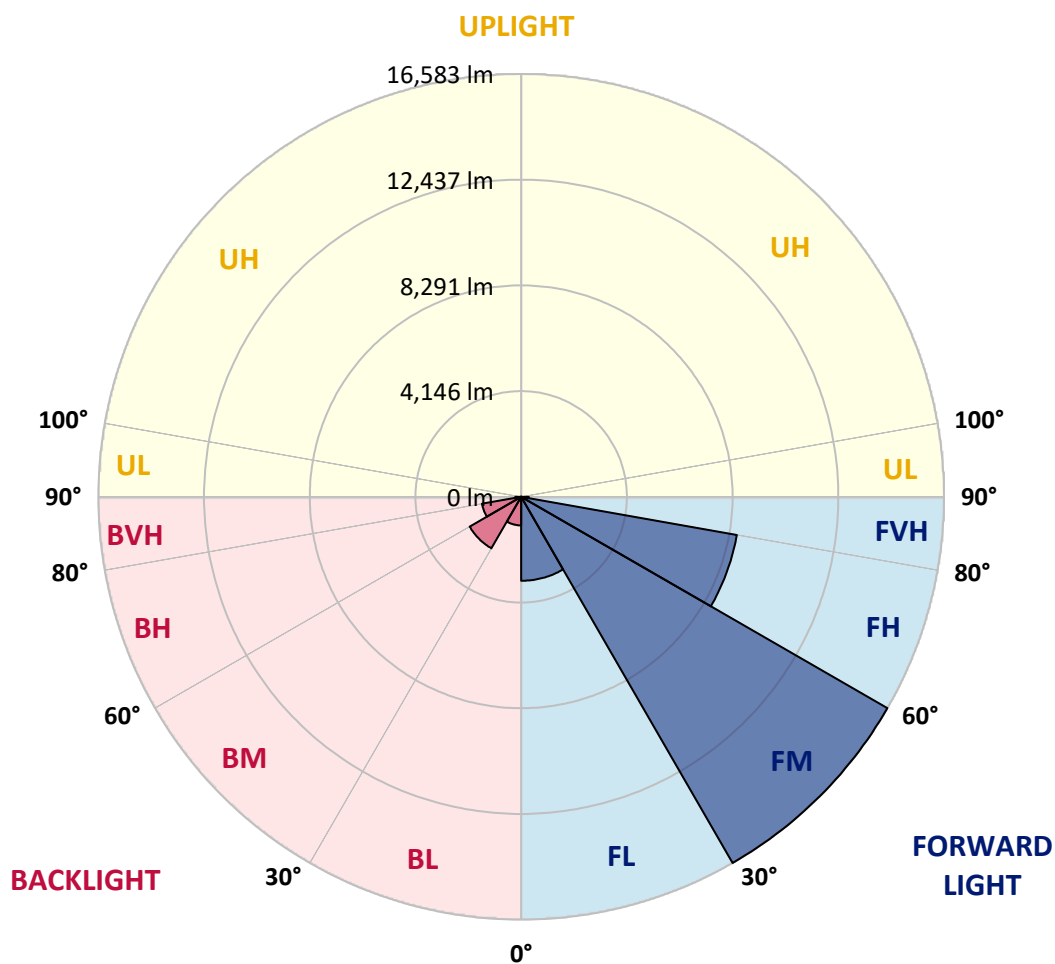
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3292.8  | 9.7       |                         |      |          |
| FM   | (30°-60°)   | 16582.6 | 48.8      |                         |      |          |
| FH   | (60°-80°)   | 8588.3  | 25.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 294.3   | 0.9       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1121.0  | 3.3       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2333.3  | 6.9       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1558.4  | 4.6       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 229.3   | 0.7       |                         |      | 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 II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 57°     | 58°     | 59°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2763.2  | 2763.2  | 2763.2  | 2763.2  | 2763.2  | 2763.2  | 2763.2  | 2763.2  | 2763.2  | 2763.2  | 2763.2  |
| 2.5°  | 3508.3  | 3469.6  | 3479.3  | 3414.9  | 3336.1  | 3233.1  | 3118.8  | 3117.2  | 3118.8  | 3107.5  | 3065.7  |
| 5°    | 4864.9  | 4818.2  | 4800.5  | 4655.7  | 4443.2  | 4140.7  | 3812.4  | 3777.0  | 3762.5  | 3725.5  | 3640.2  |
| 7.5°  | 5854.6  | 5828.8  | 5801.5  | 5692.1  | 5498.9  | 5161.0  | 4720.0  | 4644.4  | 4572.0  | 4554.3  | 4457.7  |
| 10°   | 6493.5  | 6487.0  | 6429.1  | 6400.1  | 6279.4  | 5986.6  | 5556.9  | 5484.5  | 5405.6  | 5378.2  | 5276.9  |
| 12.5° | 6998.8  | 6997.2  | 6969.8  | 6977.9  | 6873.3  | 6660.8  | 6290.7  | 6224.7  | 6166.8  | 6083.1  | 6010.7  |
| 15°   | 7348.0  | 7349.6  | 7389.9  | 7434.9  | 7418.8  | 7275.6  | 6928.0  | 6899.0  | 6849.1  | 6791.2  | 6705.9  |
| 17.5° | 7634.5  | 7642.5  | 7684.4  | 7766.4  | 7854.9  | 7843.7  | 7568.5  | 7544.3  | 7500.9  | 7422.0  | 7377.0  |
| 20°   | 8281.4  | 8312.0  | 8231.5  | 8231.5  | 8241.2  | 8284.6  | 8152.7  | 8133.4  | 8072.2  | 8030.4  | 7995.0  |
| 22.5° | 9374.1  | 9409.5  | 9227.7  | 9042.6  | 8860.7  | 8728.8  | 8596.8  | 8621.0  | 8579.1  | 8550.2  | 8529.2  |
| 25°   | 10793.5 | 10820.9 | 10526.4 | 10214.2 | 9844.0  | 9361.2  | 9034.6  | 9020.1  | 8997.5  | 8979.8  | 8970.2  |
| 27.5° | 12129.2 | 12140.5 | 11862.1 | 11405.0 | 10975.4 | 10281.8 | 9478.7  | 9461.0  | 9433.7  | 9399.9  | 9370.9  |
| 30°   | 13271.8 | 13268.6 | 12982.1 | 12546.0 | 12085.8 | 11318.1 | 10153.0 | 10098.3 | 10017.8 | 9926.1  | 9855.3  |
| 32.5° | 14261.5 | 14256.7 | 13942.9 | 13490.7 | 13007.9 | 12344.9 | 11076.7 | 10964.1 | 10838.6 | 10659.9 | 10552.1 |
| 35°   | 15040.4 | 15037.2 | 14741.1 | 14269.6 | 13716.0 | 13312.0 | 12135.7 | 11997.3 | 11837.9 | 11598.2 | 11432.4 |
| 37.5° | 15334.9 | 15334.9 | 15169.2 | 14847.3 | 14358.1 | 14081.3 | 13312.0 | 13144.7 | 12974.1 | 12702.1 | 12515.4 |
| 40°   | 15162.7 | 15165.9 | 15201.4 | 15141.8 | 14903.6 | 14691.2 | 14409.6 | 14309.8 | 14163.4 | 13918.7 | 13724.0 |
| 42.5° | 14585.0 | 14602.7 | 14837.7 | 15125.7 | 15244.8 | 15211.0 | 15383.2 | 15338.1 | 15235.1 | 15046.9 | 14892.4 |
| 45°   | 13852.8 | 13907.5 | 14165.0 | 14708.9 | 15339.7 | 15660.0 | 16199.1 | 16203.9 | 16184.6 | 16083.2 | 15964.2 |
| 47.5° | 12847.0 | 12924.2 | 13263.8 | 13999.2 | 15117.7 | 16096.1 | 17027.9 | 17071.3 | 17111.6 | 17045.6 | 16990.9 |
| 50°   | 11511.2 | 11603.0 | 12111.5 | 13086.7 | 14665.5 | 16548.3 | 18593.7 | 18790.1 | 18973.5 | 18951.0 | 18988.0 |
| 52.5° | 10080.6 | 10188.4 | 10811.2 | 11897.5 | 13888.2 | 16652.9 | 19594.7 | 19915.0 | 20235.2 | 20497.5 | 20775.9 |
| 55°   | 8789.9  | 8732.0  | 9354.8  | 10499.0 | 12610.4 | 16181.4 | 20494.3 | 20880.5 | 21237.8 | 21559.7 | 21891.2 |
| 57.5° | 7040.6  | 7135.6  | 7760.0  | 8891.3  | 10919.0 | 14850.5 | 21113.9 | 21678.7 | 22192.1 | 22724.8 | 23194.7 |
| 60°   | 5146.5  | 5241.5  | 5919.0  | 7068.0  | 9082.8  | 12832.5 | 20640.7 | 21496.9 | 22319.2 | 23135.1 | 23772.4 |
| 62.5° | 3107.5  | 3178.3  | 3775.4  | 4869.7  | 7003.6  | 10439.5 | 18532.6 | 19655.9 | 20866.0 | 21841.3 | 22818.1 |
| 65°   | 1934.4  | 1974.6  | 2195.1  | 2796.9  | 4498.0  | 7793.8  | 15141.8 | 16366.5 | 17670.0 | 18907.5 | 19923.0 |
| 67.5° | 1583.5  | 1598.0  | 1638.3  | 1767.0  | 2470.3  | 5082.1  | 11269.9 | 12354.5 | 13530.9 | 14728.2 | 15857.9 |
| 70°   | 1424.2  | 1414.6  | 1414.6  | 1422.6  | 1583.5  | 2732.6  | 7378.6  | 8085.1  | 9065.1  | 10106.3 | 11139.5 |
| 72.5° | 1285.8  | 1276.2  | 1258.5  | 1234.3  | 1292.3  | 1667.2  | 3814.0  | 4346.7  | 5053.2  | 5978.5  | 6968.2  |
| 75°   | 1155.5  | 1142.6  | 1121.7  | 1091.1  | 1131.3  | 1258.5  | 1831.4  | 2055.1  | 2399.5  | 2891.9  | 3443.9  |
| 77.5° | 1020.3  | 1004.2  | 984.9   | 962.4   | 1013.9  | 978.4   | 1073.4  | 1153.9  | 1285.8  | 1443.5  | 1651.1  |
| 80°   | 867.4   | 852.9   | 846.5   | 835.2   | 896.4   | 745.1   | 758.0   | 807.9   | 885.1   | 970.4   | 1067.0  |
| 82.5° | 679.1   | 679.1   | 704.9   | 709.7   | 777.3   | 535.9   | 566.5   | 609.9   | 650.2   | 695.2   | 740.3   |
| 85°   | 447.4   | 450.6   | 537.5   | 571.3   | 613.1   | 360.5   | 424.9   | 439.3   | 471.5   | 497.3   | 516.6   |
| 87.5° | 140.0   | 151.3   | 328.3   | 363.7   | 352.4   | 204.4   | 260.7   | 267.1   | 289.7   | 307.4   | 323.5   |
| 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):**

|       | 60°     | 61°     | 62°     | 63°     | 64°     | 65°     | 66°     | 67°     | 68°     | 69°     | 70°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2763.2  | 2763.2  | 2763.2  | 2763.2  | 2763.2  | 2763.2  | 2763.2  | 2763.2  | 2763.2  | 2763.2  | 2763.2  |
| 2.5°  | 3065.7  | 3046.4  | 3028.7  | 3027.1  | 3014.2  | 2996.5  | 3002.9  | 2975.6  | 2977.2  | 2962.7  | 2946.6  |
| 5°    | 3604.8  | 3591.9  | 3527.6  | 3509.9  | 3461.6  | 3431.0  | 3426.2  | 3361.8  | 3353.8  | 3316.7  | 3276.5  |
| 7.5°  | 4380.5  | 4338.6  | 4248.5  | 4205.1  | 4123.0  | 4061.8  | 4032.9  | 3947.6  | 3905.7  | 3809.2  | 3765.7  |
| 10°   | 5193.2  | 5140.1  | 5029.0  | 4967.9  | 4889.0  | 4790.9  | 4737.7  | 4613.8  | 4565.6  | 4477.0  | 4370.8  |
| 12.5° | 5946.3  | 5893.2  | 5779.0  | 5732.3  | 5627.7  | 5523.1  | 5465.1  | 5325.1  | 5262.4  | 5120.8  | 5037.1  |
| 15°   | 6643.1  | 6590.0  | 6490.3  | 6442.0  | 6337.4  | 6252.1  | 6174.8  | 6036.4  | 5962.4  | 5830.5  | 5721.0  |
| 17.5° | 7319.0  | 7262.7  | 7175.8  | 7132.4  | 7031.0  | 6944.1  | 6860.4  | 6730.0  | 6654.4  | 6522.5  | 6424.3  |
| 20°   | 7946.7  | 7904.8  | 7842.1  | 7784.1  | 7682.7  | 7603.9  | 7504.1  | 7391.5  | 7282.0  | 7185.5  | 7092.1  |
| 22.5° | 8493.8  | 8477.7  | 8410.1  | 8384.4  | 8297.5  | 8229.9  | 8143.0  | 8032.0  | 7953.1  | 7830.8  | 7743.9  |
| 25°   | 8965.4  | 8960.5  | 8928.3  | 8920.3  | 8859.1  | 8794.8  | 8775.5  | 8683.7  | 8611.3  | 8503.5  | 8413.4  |
| 27.5° | 9370.9  | 9375.7  | 9367.7  | 9390.2  | 9374.1  | 9345.1  | 9346.8  | 9316.2  | 9274.3  | 9184.2  | 9105.4  |
| 30°   | 9821.5  | 9795.7  | 9810.2  | 9842.4  | 9852.1  | 9855.3  | 9908.4  | 9926.1  | 9922.9  | 9863.3  | 9824.7  |
| 32.5° | 10458.8 | 10397.6 | 10341.3 | 10336.5 | 10368.7 | 10381.5 | 10471.6 | 10518.3 | 10558.5 | 10573.0 | 10579.5 |
| 35°   | 11271.5 | 11149.2 | 11031.7 | 10968.9 | 10914.2 | 10928.7 | 10993.1 | 11068.7 | 11157.2 | 11218.4 | 11290.8 |
| 37.5° | 12295.0 | 12145.3 | 11937.7 | 11789.7 | 11752.6 | 11672.2 | 11714.0 | 11773.6 | 11860.5 | 11955.4 | 12080.9 |
| 40°   | 13535.7 | 13308.8 | 13075.5 | 12879.1 | 12772.9 | 12624.9 | 12623.3 | 12612.0 | 12665.1 | 12753.6 | 12930.6 |
| 42.5° | 14729.8 | 14528.7 | 14280.8 | 14074.8 | 13936.4 | 13738.5 | 13698.3 | 13593.7 | 13617.8 | 13695.1 | 13867.2 |
| 45°   | 15848.3 | 15682.5 | 15531.3 | 15293.1 | 15175.6 | 14961.6 | 14894.0 | 14770.1 | 14700.9 | 14736.3 | 14908.5 |
| 47.5° | 16931.3 | 16825.1 | 16667.4 | 16512.9 | 16422.8 | 16231.3 | 16144.4 | 16055.9 | 15967.4 | 15964.2 | 16144.4 |
| 50°   | 19042.7 | 18986.4 | 18799.7 | 18638.8 | 18682.2 | 18447.3 | 18461.8 | 18223.6 | 18331.4 | 18344.3 | 18722.5 |
| 52.5° | 21027.0 | 21223.3 | 21361.7 | 21530.7 | 21640.1 | 21661.0 | 21733.5 | 21841.3 | 21971.6 | 22229.1 | 22579.9 |
| 55°   | 22163.1 | 22409.4 | 22552.6 | 22681.3 | 22893.8 | 22938.8 | 23059.5 | 23202.7 | 23317.0 | 23606.7 | 23904.4 |
| 57.5° | 23513.3 | 23970.4 | 24192.5 | 24396.8 | 24683.3 | 24792.7 | 24993.9 | 25150.0 | 25298.0 | 25640.8 | 26001.3 |
| 60°   | 24345.3 | 24902.1 | 25354.4 | 25677.8 | 26036.7 | 26294.2 | 26598.3 | 26843.0 | 27190.6 | 27600.9 | 28138.4 |
| 62.5° | 23683.9 | 24501.4 | 25101.7 | 25656.9 | 26144.5 | 26637.0 | 27073.1 | 27530.1 | 28058.0 | 28679.2 | 29512.8 |
| 65°   | 21049.5 | 21881.5 | 22909.8 | 23486.0 | 24131.3 | 24890.9 | 25553.9 | 26294.2 | 27013.5 | 27918.0 | 29150.7 |
| 67.5° | 16945.8 | 17913.0 | 19068.5 | 19649.4 | 20391.3 | 21239.4 | 21982.9 | 22887.3 | 23727.4 | 24823.3 | 26347.3 |
| 70°   | 12214.5 | 13464.9 | 14436.9 | 15043.6 | 15909.4 | 16783.3 | 17501.0 | 18553.5 | 19248.7 | 20372.0 | 21947.5 |
| 72.5° | 7734.2  | 8720.7  | 9911.6  | 10676.0 | 11445.3 | 12330.4 | 13064.2 | 13971.9 | 14620.4 | 15643.9 | 17071.3 |
| 75°   | 4158.4  | 4885.8  | 5931.8  | 6657.6  | 7481.6  | 8238.0  | 9097.3  | 9705.6  | 10185.2 | 10994.7 | 12153.4 |
| 77.5° | 1948.8  | 2391.4  | 2920.9  | 3479.3  | 4037.7  | 4620.3  | 5186.7  | 5679.2  | 5885.2  | 6348.6  | 7032.6  |
| 80°   | 1182.8  | 1326.1  | 1480.5  | 1652.7  | 1886.1  | 2074.4  | 2323.8  | 2504.1  | 2516.9  | 2663.4  | 2872.6  |
| 82.5° | 790.2   | 843.3   | 889.9   | 933.4   | 992.9   | 1039.6  | 1092.7  | 1155.5  | 1181.2  | 1215.0  | 1282.6  |
| 85°   | 539.1   | 564.9   | 574.5   | 601.9   | 595.4   | 611.5   | 632.5   | 653.4   | 664.6   | 663.0   | 693.6   |
| 87.5° | 331.5   | 344.4   | 350.8   | 357.3   | 352.4   | 346.0   | 355.7   | 366.9   | 370.1   | 360.5   | 363.7   |
| 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°    | 2763.2  | 2763.2  | 2763.2  | 2763.2  | 2763.2  | 2763.2  | 2763.2  | 2763.2 | 2763.2 | 2763.2 | 2763.2 |
| 2.5°  | 2949.8  | 2935.3  | 2920.9  | 2911.2  | 2908.0  | 2822.7  | 2785.7  | 2761.5 | 2710.0 | 2668.2 | 2634.4 |
| 5°    | 3254.0  | 3223.4  | 3199.3  | 3170.3  | 3154.2  | 2938.6  | 2859.7  | 2805.0 | 2714.9 | 2661.8 | 2613.5 |
| 7.5°  | 3743.2  | 3657.9  | 3608.0  | 3551.7  | 3503.4  | 3114.0  | 2983.6  | 2898.3 | 2772.8 | 2702.0 | 2647.3 |
| 10°   | 4298.4  | 4209.9  | 4131.0  | 4044.1  | 3968.5  | 3347.3  | 3157.4  | 3025.5 | 2859.7 | 2768.0 | 2695.6 |
| 12.5° | 4918.0  | 4831.1  | 4731.3  | 4620.3  | 4523.7  | 3643.4  | 3379.5  | 3191.2 | 2964.3 | 2842.0 | 2740.6 |
| 15°   | 5650.2  | 5497.3  | 5376.6  | 5247.9  | 5135.2  | 3997.5  | 3638.6  | 3377.9 | 3075.4 | 2909.6 | 2774.4 |
| 17.5° | 6330.9  | 6170.0  | 6005.9  | 5893.2  | 5762.9  | 4395.0  | 3899.3  | 3567.8 | 3167.1 | 2953.0 | 2780.9 |
| 20°   | 6995.6  | 6820.2  | 6678.6  | 6527.3  | 6390.5  | 4806.9  | 4177.7  | 3735.2 | 3226.6 | 2954.7 | 2740.6 |
| 22.5° | 7581.4  | 7471.9  | 7314.2  | 7150.1  | 7011.7  | 5218.9  | 4438.4  | 3876.8 | 3249.2 | 2917.6 | 2669.8 |
| 25°   | 8247.6  | 8131.7  | 7938.6  | 7800.2  | 7645.7  | 5639.0  | 4694.3  | 3986.2 | 3236.3 | 2848.4 | 2560.4 |
| 27.5° | 8958.9  | 8830.2  | 8632.2  | 8487.4  | 8300.7  | 6075.1  | 4929.3  | 4065.1 | 3188.0 | 2735.8 | 2413.9 |
| 30°   | 9700.8  | 9583.3  | 9388.6  | 9242.2  | 9053.9  | 6536.9  | 5191.6  | 4118.2 | 3091.4 | 2579.7 | 2243.3 |
| 32.5° | 10497.4 | 10399.2 | 10206.1 | 10053.2 | 9852.1  | 7037.4  | 5436.2  | 4134.3 | 2945.0 | 2394.6 | 2063.1 |
| 35°   | 11253.8 | 11186.2 | 11023.6 | 10880.4 | 10671.2 | 7510.6  | 5695.3  | 4126.2 | 2771.2 | 2191.9 | 1899.0 |
| 37.5° | 12105.1 | 12064.8 | 11984.4 | 11802.5 | 11546.7 | 8152.7  | 6005.9  | 4092.4 | 2558.8 | 1990.7 | 1773.4 |
| 40°   | 13012.7 | 13015.9 | 12929.0 | 12805.1 | 12566.9 | 8931.6  | 6376.0  | 4026.4 | 2327.0 | 1813.7 | 1659.2 |
| 42.5° | 13973.5 | 14023.4 | 13981.5 | 13893.0 | 13664.5 | 9716.9  | 6818.6  | 3946.0 | 2101.7 | 1641.5 | 1546.5 |
| 45°   | 15074.2 | 15135.4 | 15199.7 | 15069.4 | 14847.3 | 10753.3 | 7401.1  | 3841.4 | 1858.7 | 1498.2 | 1469.3 |
| 47.5° | 16343.9 | 16440.5 | 16498.4 | 16500.0 | 16278.0 | 12037.5 | 8347.4  | 3778.6 | 1643.1 | 1401.7 | 1432.3 |
| 50°   | 19023.4 | 19054.0 | 19190.8 | 19429.0 | 19258.4 | 15009.8 | 10000.1 | 3740.0 | 1496.6 | 1342.1 | 1404.9 |
| 52.5° | 22884.1 | 23220.4 | 23457.0 | 23440.9 | 23209.2 | 16897.5 | 10911.0 | 3540.4 | 1409.7 | 1319.6 | 1392.0 |
| 55°   | 24456.4 | 24876.4 | 25314.1 | 25430.0 | 25249.8 | 18508.4 | 11772.0 | 3340.9 | 1367.9 | 1335.7 | 1396.9 |
| 57.5° | 26551.7 | 27259.8 | 27860.0 | 28112.7 | 27852.0 | 20569.9 | 12904.9 | 3236.3 | 1355.0 | 1379.2 | 1427.4 |
| 60°   | 28999.4 | 29874.9 | 30663.4 | 31117.2 | 31117.2 | 22938.8 | 14079.7 | 3192.8 | 1337.3 | 1443.5 | 1478.9 |
| 62.5° | 30571.7 | 31857.5 | 33048.4 | 33713.0 | 33693.7 | 24588.3 | 14601.1 | 3044.8 | 1297.1 | 1488.6 | 1549.7 |
| 65°   | 30578.1 | 32106.9 | 33624.5 | 34371.2 | 34409.8 | 24385.6 | 13740.1 | 2689.1 | 1223.1 | 1495.0 | 1620.6 |
| 67.5° | 28029.0 | 29659.2 | 31427.8 | 32263.0 | 32456.2 | 22448.0 | 11894.3 | 2211.2 | 1102.4 | 1430.7 | 1646.3 |
| 70°   | 23672.7 | 25264.2 | 27069.9 | 27890.6 | 28233.4 | 19136.1 | 9580.1  | 1704.2 | 947.9  | 1289.0 | 1593.2 |
| 72.5° | 18650.1 | 20211.1 | 21467.9 | 22068.2 | 22335.3 | 14626.8 | 6976.3  | 1287.4 | 777.3  | 1086.3 | 1450.0 |
| 75°   | 13204.2 | 14375.8 | 15043.6 | 15177.2 | 15219.1 | 8817.3  | 4238.9  | 957.5  | 640.5  | 844.9  | 1224.7 |
| 77.5° | 7452.6  | 7954.7  | 7900.0  | 7959.5  | 7463.9  | 3403.6  | 1845.9  | 685.6  | 527.8  | 642.1  | 949.5  |
| 80°   | 2909.6  | 2999.7  | 2817.9  | 2761.5  | 2533.0  | 1266.5  | 814.3   | 478.0  | 421.6  | 486.0  | 664.6  |
| 82.5° | 1282.6  | 1324.4  | 1285.8  | 1295.5  | 1239.2  | 653.4   | 487.6   | 346.0  | 321.9  | 355.7  | 440.9  |
| 85°   | 706.5   | 719.4   | 716.1   | 737.1   | 706.5   | 260.7   | 231.7   | 212.4  | 225.3  | 241.4  | 283.2  |
| 87.5° | 344.4   | 347.6   | 336.3   | 354.0   | 342.8   | 132.0   | 114.3   | 120.7  | 132.0  | 135.2  | 135.2  |
| 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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|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 2763.2 | 2763.2 | 2763.2 | 2763.2 | 2763.2 | 2763.2 |
| 2.5°  | 2610.3 | 2597.4 | 2599.0 | 2595.8 | 2589.3 | 2589.3 |
| 5°    | 2587.7 | 2574.9 | 2574.9 | 2571.6 | 2563.6 | 2565.2 |
| 7.5°  | 2610.3 | 2589.3 | 2581.3 | 2570.0 | 2558.8 | 2558.8 |
| 10°   | 2636.0 | 2599.0 | 2576.5 | 2557.2 | 2542.7 | 2542.7 |
| 12.5° | 2655.3 | 2597.4 | 2560.4 | 2534.6 | 2520.1 | 2520.1 |
| 15°   | 2661.8 | 2586.1 | 2534.6 | 2504.1 | 2491.2 | 2489.6 |
| 17.5° | 2640.8 | 2542.7 | 2479.9 | 2444.5 | 2428.4 | 2423.6 |
| 20°   | 2576.5 | 2463.8 | 2388.2 | 2348.0 | 2325.4 | 2317.4 |
| 22.5° | 2479.9 | 2351.2 | 2262.7 | 2220.8 | 2191.9 | 2187.0 |
| 25°   | 2344.7 | 2206.3 | 2119.4 | 2079.2 | 2063.1 | 2058.3 |
| 27.5° | 2187.0 | 2058.3 | 1984.3 | 1958.5 | 1944.0 | 1942.4 |
| 30°   | 2037.4 | 1927.9 | 1873.2 | 1853.9 | 1836.2 | 1833.0 |
| 32.5° | 1897.4 | 1828.2 | 1807.2 | 1779.9 | 1738.0 | 1733.2 |
| 35°   | 1797.6 | 1791.1 | 1776.7 | 1715.5 | 1664.0 | 1649.5 |
| 37.5° | 1736.4 | 1796.0 | 1721.9 | 1601.2 | 1564.2 | 1561.0 |
| 40°   | 1701.0 | 1746.1 | 1618.9 | 1577.1 | 1580.3 | 1577.1 |
| 42.5° | 1620.6 | 1667.2 | 1622.2 | 1602.9 | 1615.7 | 1618.9 |
| 45°   | 1540.1 | 1591.6 | 1646.3 | 1633.4 | 1664.0 | 1664.0 |
| 47.5° | 1495.0 | 1572.3 | 1644.7 | 1644.7 | 1689.8 | 1705.8 |
| 50°   | 1443.5 | 1556.2 | 1618.9 | 1641.5 | 1676.9 | 1664.0 |
| 52.5° | 1440.3 | 1528.8 | 1581.9 | 1622.2 | 1638.3 | 1623.8 |
| 55°   | 1445.1 | 1506.3 | 1544.9 | 1590.0 | 1609.3 | 1610.9 |
| 57.5° | 1451.6 | 1493.4 | 1519.2 | 1540.1 | 1598.0 | 1598.0 |
| 60°   | 1467.7 | 1482.2 | 1496.6 | 1507.9 | 1583.5 | 1585.2 |
| 62.5° | 1493.4 | 1470.9 | 1467.7 | 1478.9 | 1575.5 | 1569.1 |
| 65°   | 1533.7 | 1454.8 | 1430.7 | 1441.9 | 1567.4 | 1548.1 |
| 67.5° | 1588.4 | 1430.7 | 1384.0 | 1392.0 | 1561.0 | 1519.2 |
| 70°   | 1638.3 | 1392.0 | 1326.1 | 1318.0 | 1499.9 | 1425.8 |
| 72.5° | 1643.1 | 1347.0 | 1245.6 | 1221.5 | 1303.5 | 1232.7 |
| 75°   | 1562.6 | 1316.4 | 1157.1 | 1086.3 | 1076.6 | 1067.0 |
| 77.5° | 1408.1 | 1298.7 | 1054.1 | 943.0  | 923.7  | 930.2  |
| 80°   | 1178.0 | 1232.7 | 930.2  | 798.2  | 902.8  | 891.5  |
| 82.5° | 880.3  | 1087.9 | 790.2  | 706.5  | 704.9  | 622.8  |
| 85°   | 489.2  | 848.1  | 643.7  | 529.5  | 368.5  | 357.3  |
| 87.5° | 136.8  | 471.5  | 450.6  | 299.3  | 204.4  | 212.4  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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