

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: P453915

Luminaire Tested: **GALN-SA5A-727-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453915  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5A-727-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16509 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 24 FT

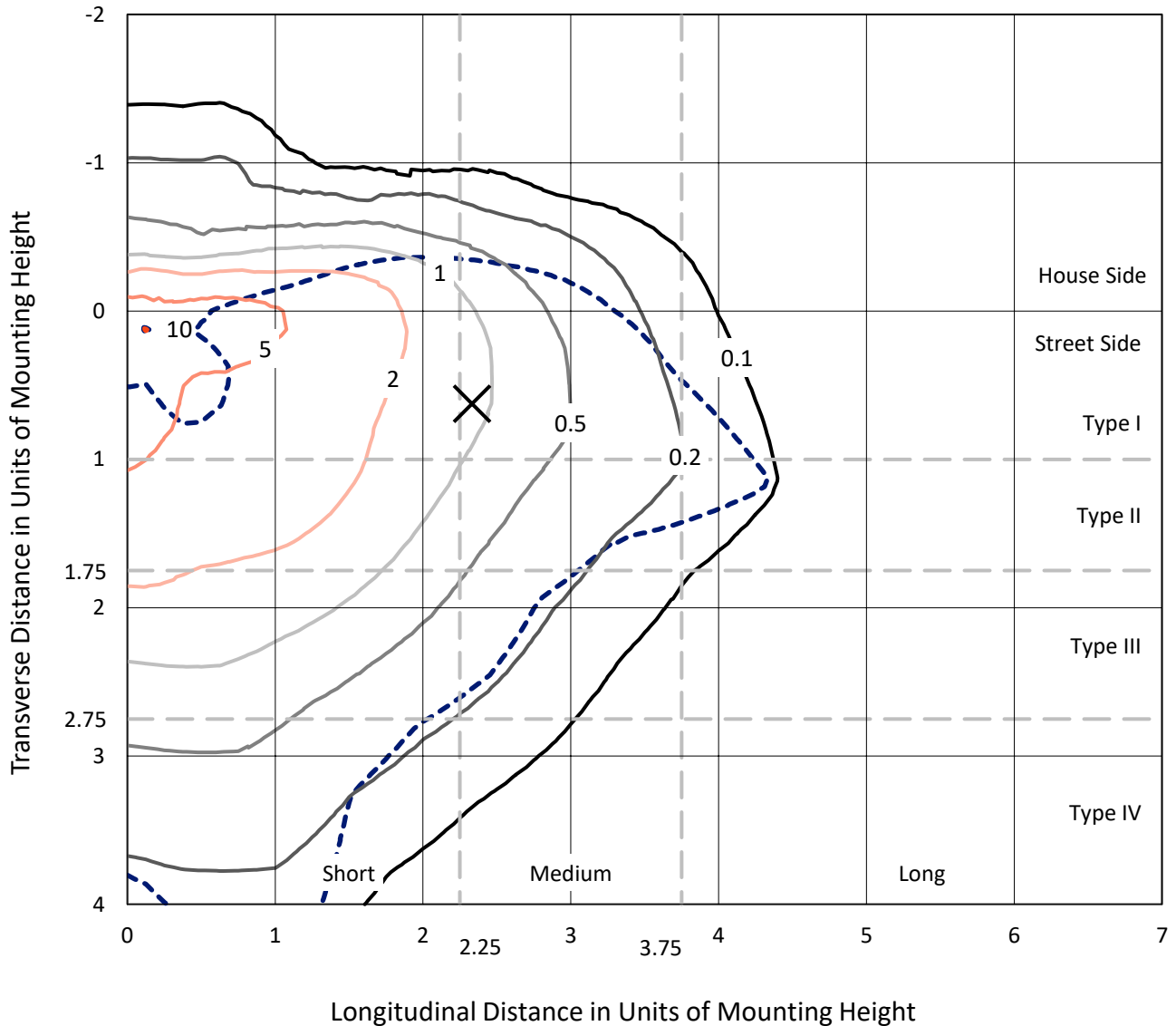




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### Iso-Footcandle Lines of Horizontal Illumination

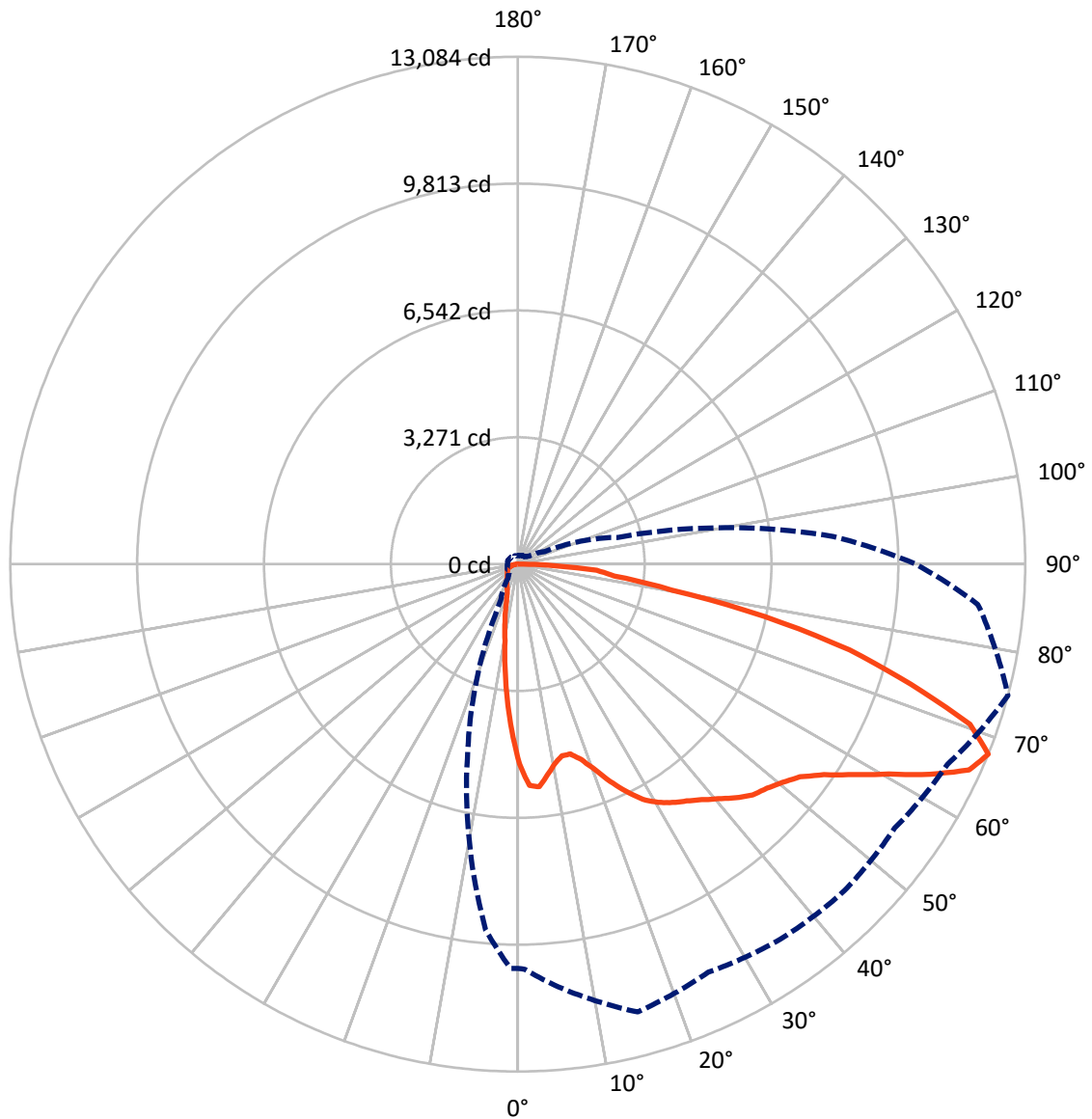
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2790.4   | 0.0    | 2790.4  |
|                    | % Fixture | 16.9     | 0.0    | 16.9    |
| <b>Street Side</b> | Lumens    | 13718.6  | 0.0    | 13718.6 |
|                    | % Fixture | 83.1     | 0.0    | 83.1    |
| <b>Total</b>       | Lumens    | 16509.0  | 0.0    | 16509.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 391.2   | 2.4       |
| 10°-20°   | 815.9   | 4.9       |
| 20°-30°   | 1174.1  | 7.1       |
| 30°-40°   | 1691.0  | 10.2      |
| 40°-50°   | 2375.3  | 14.4      |
| 50°-60°   | 3312.8  | 20.1      |
| 60°-70°   | 3938.7  | 23.9      |
| 70°-80°   | 2319.7  | 14.1      |
| 80°-90°   | 490.5   | 3.0       |
| 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°    | 16509.0 | 100.0     |
| 0°-180°   | 16509.0 | 100.0     |

**Coefficient of Utilization**



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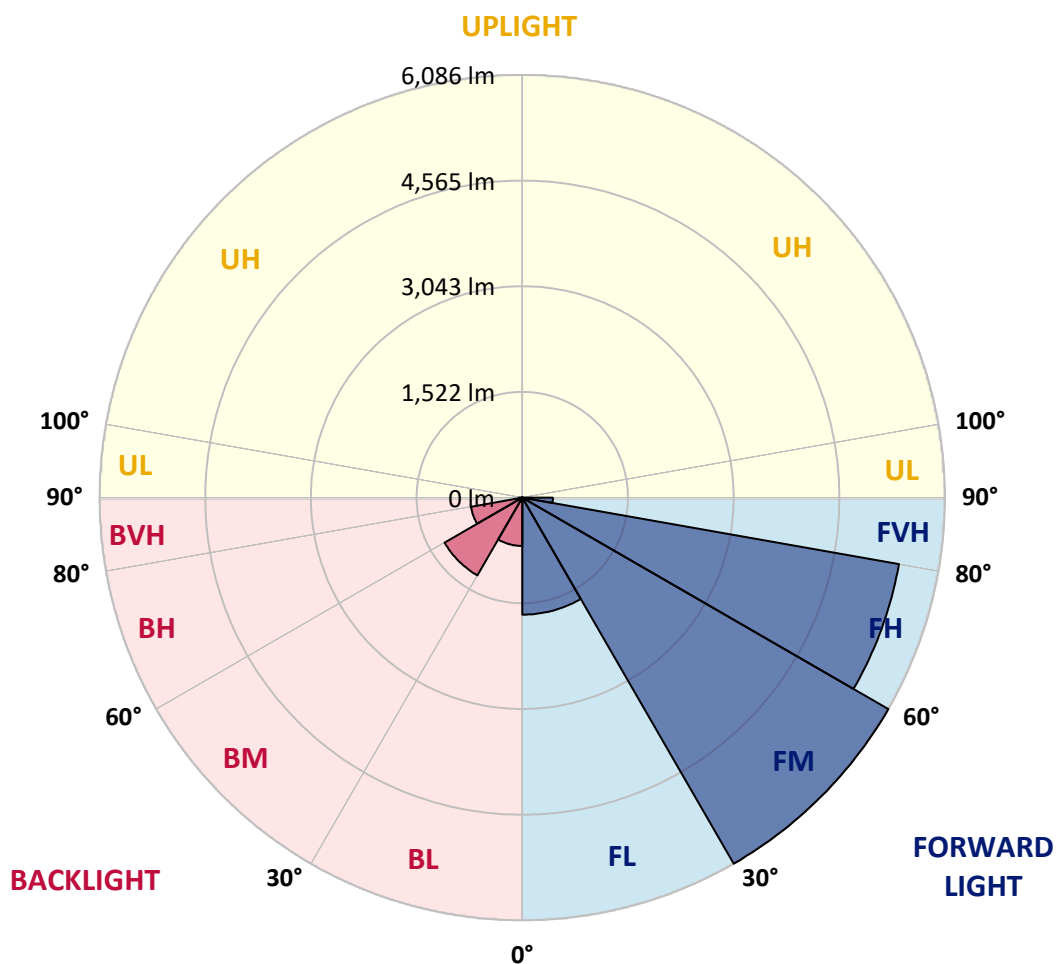
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1685.1 | 10.2      |                         |      |         |
| FM   | (30°-60°)   | 6086.3 | 36.9      |                         |      |         |
| FH   | (60°-80°)   | 5507.5 | 33.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 439.8  | 2.7       |                         |      | G3/500  |
| BL   | (0°-30°)    | 696.0  | 4.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1292.8 | 7.8       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 750.8  | 4.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 50.7   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5157.8  | 5157.8  | 5157.8  | 5157.8  | 5157.8  | 5157.8  | 5157.8  | 5157.8  | 5157.8  | 5157.8  | 5157.8  |
| 2.5°  | 5561.2  | 5568.6  | 5616.2  | 5754.9  | 5850.2  | 5885.1  | 5909.5  | 5863.9  | 5819.5  | 5711.5  | 5548.4  |
| 5°    | 5544.2  | 5587.6  | 5711.5  | 6022.7  | 6268.3  | 6374.2  | 6406.0  | 6269.4  | 6043.9  | 5766.5  | 5433.1  |
| 7.5°  | 5220.3  | 5278.5  | 5469.0  | 5991.0  | 6424.0  | 6671.7  | 6638.9  | 6392.2  | 5985.7  | 5491.3  | 5025.5  |
| 10°   | 4836.0  | 4900.5  | 5130.3  | 5761.2  | 6319.2  | 6660.0  | 6660.0  | 6359.4  | 5819.5  | 5231.9  | 4695.2  |
| 12.5° | 4531.1  | 4598.8  | 4861.4  | 5525.2  | 6101.1  | 6424.0  | 6478.0  | 6219.6  | 5699.8  | 5067.8  | 4478.1  |
| 15°   | 4430.5  | 4496.1  | 4778.8  | 5382.2  | 5870.3  | 6067.2  | 6085.2  | 6000.5  | 5641.6  | 5079.5  | 4468.6  |
| 17.5° | 4555.4  | 4640.1  | 4926.0  | 5424.6  | 5658.5  | 5670.2  | 5684.0  | 5750.7  | 5648.0  | 5292.3  | 4661.3  |
| 20°   | 4916.4  | 5007.5  | 5306.0  | 5561.2  | 5473.3  | 5352.6  | 5360.0  | 5531.5  | 5723.1  | 5643.7  | 5121.8  |
| 22.5° | 5437.3  | 5516.7  | 5822.6  | 5801.5  | 5394.9  | 5146.2  | 5094.3  | 5333.5  | 5834.3  | 6082.0  | 5612.0  |
| 25°   | 5999.4  | 6092.6  | 6444.1  | 6158.2  | 5417.2  | 5023.4  | 4990.5  | 5217.1  | 5949.7  | 6491.7  | 6178.4  |
| 27.5° | 6643.1  | 6734.2  | 7011.5  | 6518.2  | 5533.6  | 5013.8  | 4974.7  | 5206.5  | 6053.4  | 6870.7  | 6719.3  |
| 30°   | 7121.6  | 7205.3  | 7393.7  | 6821.0  | 5676.5  | 5077.3  | 5028.6  | 5290.1  | 6142.4  | 7130.1  | 7246.5  |
| 32.5° | 7497.4  | 7584.3  | 7686.9  | 7009.4  | 5865.0  | 5192.7  | 5102.8  | 5442.6  | 6258.8  | 7328.1  | 7637.2  |
| 35°   | 7889.2  | 7991.8  | 7984.4  | 7176.7  | 6040.7  | 5326.1  | 5238.3  | 5662.8  | 6442.0  | 7500.6  | 8132.6  |
| 37.5° | 8385.7  | 8427.0  | 8374.0  | 7327.0  | 6251.4  | 5566.4  | 5517.7  | 5989.9  | 6702.4  | 7709.2  | 8711.7  |
| 40°   | 8889.6  | 8972.2  | 8700.1  | 7509.1  | 6507.6  | 6018.5  | 6013.2  | 6473.7  | 7011.5  | 7953.7  | 9272.8  |
| 42.5° | 9321.5  | 9391.4  | 9005.0  | 7667.9  | 6817.8  | 6570.1  | 6610.3  | 7122.7  | 7417.0  | 8237.5  | 9723.8  |
| 45°   | 9646.5  | 9709.0  | 9286.6  | 7821.4  | 7226.4  | 7207.4  | 7444.5  | 7818.2  | 7928.3  | 8492.6  | 9988.5  |
| 47.5° | 9922.8  | 9983.2  | 9482.4  | 8054.3  | 7731.4  | 7968.6  | 8381.4  | 8543.4  | 8365.5  | 8638.7  | 10284.9 |
| 50°   | 10155.7 | 10173.7 | 9616.9  | 8331.7  | 8358.1  | 8901.2  | 9301.4  | 9406.2  | 8797.5  | 8848.3  | 10542.2 |
| 52.5° | 10398.2 | 10374.9 | 9848.7  | 8681.0  | 9035.7  | 9786.3  | 10077.4 | 10186.4 | 9211.4  | 9106.6  | 10916.9 |
| 55°   | 10941.3 | 10963.5 | 10368.5 | 9121.4  | 9720.6  | 10655.4 | 11038.7 | 10933.9 | 9669.8  | 9582.0  | 11393.3 |
| 57.5° | 11597.6 | 11578.6 | 11100.1 | 9810.6  | 10418.3 | 11464.3 | 11750.1 | 11581.8 | 10281.7 | 10235.1 | 11876.1 |
| 60°   | 11852.8 | 11878.2 | 11712.0 | 10551.7 | 11106.4 | 12172.5 | 12464.7 | 12203.2 | 11015.4 | 10994.2 | 12240.3 |
| 62.5° | 11596.6 | 11739.5 | 11851.7 | 11211.2 | 11692.9 | 12693.4 | 12983.4 | 12684.9 | 11780.8 | 11934.3 | 12495.4 |
| 65°   | 11086.3 | 11117.0 | 11499.2 | 11770.2 | 11975.6 | 12779.1 | 12930.5 | 12771.7 | 12420.2 | 12790.8 | 12483.7 |
| 67.5° | 10423.6 | 10450.1 | 10897.9 | 11953.4 | 11611.4 | 11805.1 | 11911.0 | 11864.4 | 12222.3 | 13084.0 | 11908.9 |
| 70°   | 9792.6  | 9771.5  | 10244.7 | 11486.5 | 10108.1 | 9813.8  | 9901.7  | 9755.6  | 10546.4 | 12367.3 | 10781.4 |
| 72.5° | 8564.6  | 8640.8  | 9149.0  | 10188.6 | 8003.5  | 7525.0  | 7716.6  | 7338.6  | 8111.5  | 10591.9 | 8750.9  |
| 75°   | 6708.7  | 6726.7  | 7574.7  | 8550.8  | 6037.6  | 5282.7  | 5542.1  | 5384.4  | 6213.3  | 8835.6  | 6042.8  |
| 77.5° | 4645.4  | 4605.2  | 5516.7  | 6530.9  | 4305.6  | 3867.3  | 3871.5  | 3796.4  | 4338.4  | 6505.5  | 4105.5  |
| 80°   | 2950.5  | 2889.1  | 3453.4  | 4034.6  | 2959.0  | 3165.4  | 3061.7  | 3058.5  | 2824.5  | 4013.4  | 2482.6  |
| 82.5° | 1594.3  | 1662.1  | 2181.9  | 2529.1  | 2122.6  | 2446.6  | 2242.2  | 2176.6  | 1938.4  | 2512.2  | 1588.0  |
| 85°   | 726.2   | 789.8   | 1163.5  | 1720.3  | 1612.3  | 1630.3  | 1089.4  | 1285.2  | 1603.9  | 2040.0  | 848.0   |
| 87.5° | 70.9    | 91.0    | 240.3   | 812.0   | 550.5   | 434.1   | 162.0   | 312.3   | 403.4   | 725.2   | 67.8    |
| 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):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5157.8  | 5157.8  | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 |
| 2.5°  | 5481.8  | 5426.7  | 5239.3 | 5084.8 | 4920.7 | 4795.7 | 4632.7 | 4523.7 | 4448.5 | 4335.2 | 4321.5 |
| 5°    | 5229.8  | 5095.3  | 4769.3 | 4436.9 | 4150.0 | 3934.0 | 3714.8 | 3513.7 | 3395.1 | 3358.1 | 3310.4 |
| 7.5°  | 4805.3  | 4578.7  | 4159.5 | 3778.4 | 3449.1 | 3127.3 | 2879.6 | 2703.8 | 2586.3 | 2517.5 | 2434.9 |
| 10°   | 4455.9  | 4193.4  | 3683.1 | 3216.2 | 2945.2 | 2745.1 | 2527.0 | 2338.6 | 2193.5 | 2069.7 | 2001.9 |
| 12.5° | 4220.9  | 3924.5  | 3350.7 | 2971.7 | 2762.0 | 2549.3 | 2294.1 | 2082.4 | 1868.5 | 1727.7 | 1667.4 |
| 15°   | 4150.0  | 3836.6  | 3248.0 | 2849.9 | 2549.3 | 2270.8 | 1985.0 | 1708.7 | 1496.9 | 1363.6 | 1319.1 |
| 17.5° | 4323.6  | 3944.6  | 3246.9 | 2687.9 | 2299.4 | 1967.0 | 1600.7 | 1341.3 | 1124.3 | 1024.8 | 993.0  |
| 20°   | 4647.5  | 4152.1  | 3256.4 | 2528.1 | 2028.4 | 1560.5 | 1164.5 | 951.7  | 848.0  | 805.6  | 789.8  |
| 22.5° | 5099.6  | 4468.6  | 3285.0 | 2370.3 | 1732.0 | 1198.4 | 872.3  | 764.4  | 727.3  | 719.9  | 716.7  |
| 25°   | 5656.4  | 4860.3  | 3381.4 | 2228.5 | 1482.1 | 914.7  | 729.4  | 680.7  | 659.5  | 652.1  | 651.1  |
| 27.5° | 6168.8  | 5366.4  | 3497.8 | 2106.7 | 1240.8 | 788.7  | 659.5  | 618.3  | 597.1  | 596.0  | 598.1  |
| 30°   | 6631.5  | 5789.8  | 3595.2 | 1970.2 | 1057.6 | 700.8  | 614.0  | 572.7  | 552.6  | 551.6  | 557.9  |
| 32.5° | 7031.6  | 6138.1  | 3667.2 | 1835.7 | 956.0  | 646.8  | 572.7  | 528.3  | 511.3  | 508.2  | 511.3  |
| 35°   | 7459.3  | 6485.4  | 3634.4 | 1730.9 | 897.7  | 602.4  | 542.0  | 498.6  | 478.5  | 469.0  | 469.0  |
| 37.5° | 7947.4  | 6843.2  | 3578.3 | 1644.1 | 871.3  | 565.3  | 515.6  | 473.2  | 453.1  | 443.6  | 442.5  |
| 40°   | 8479.9  | 7201.0  | 3501.0 | 1566.8 | 844.8  | 543.1  | 497.6  | 453.1  | 428.8  | 419.2  | 417.1  |
| 42.5° | 8949.9  | 7507.0  | 3437.5 | 1516.0 | 801.4  | 547.3  | 481.7  | 438.3  | 407.6  | 394.9  | 393.8  |
| 45°   | 9358.6  | 7815.0  | 3425.8 | 1486.4 | 765.4  | 541.0  | 477.5  | 426.6  | 390.6  | 376.9  | 374.8  |
| 47.5° | 9678.3  | 8135.8  | 3492.5 | 1469.4 | 726.2  | 507.1  | 505.0  | 419.2  | 375.8  | 361.0  | 358.9  |
| 50°   | 10067.9 | 8591.0  | 3645.0 | 1434.5 | 690.2  | 475.3  | 533.6  | 418.2  | 364.2  | 345.1  | 339.8  |
| 52.5° | 10586.6 | 9183.9  | 3851.4 | 1372.0 | 638.4  | 445.7  | 509.2  | 418.2  | 350.4  | 331.4  | 325.0  |
| 55°   | 11371.1 | 9939.8  | 4053.6 | 1284.2 | 565.3  | 406.5  | 459.5  | 405.5  | 330.3  | 313.4  | 309.1  |
| 57.5° | 11890.9 | 10492.4 | 4182.8 | 1162.4 | 474.3  | 377.9  | 395.9  | 385.4  | 310.2  | 292.2  | 292.2  |
| 60°   | 11917.4 | 10640.6 | 4121.4 | 1008.9 | 417.1  | 351.5  | 344.1  | 388.5  | 292.2  | 273.1  | 271.0  |
| 62.5° | 11612.5 | 10277.5 | 3801.7 | 871.3  | 386.4  | 322.9  | 311.2  | 340.9  | 274.2  | 255.1  | 252.0  |
| 65°   | 11136.1 | 9351.2  | 3246.9 | 805.6  | 369.5  | 297.5  | 280.5  | 279.5  | 255.1  | 237.1  | 232.9  |
| 67.5° | 10260.6 | 8171.8  | 2667.8 | 767.5  | 361.0  | 268.9  | 253.0  | 247.7  | 232.9  | 218.1  | 216.0  |
| 70°   | 8970.0  | 6844.3  | 2139.6 | 751.7  | 356.8  | 239.3  | 226.6  | 220.2  | 207.5  | 195.9  | 194.8  |
| 72.5° | 6978.7  | 5551.6  | 1765.8 | 741.1  | 354.7  | 211.7  | 198.0  | 189.5  | 182.1  | 171.5  | 171.5  |
| 75°   | 5012.8  | 4084.3  | 1347.7 | 668.0  | 328.2  | 182.1  | 167.3  | 162.0  | 151.4  | 142.9  | 145.0  |
| 77.5° | 3160.1  | 2750.4  | 887.2  | 491.2  | 254.1  | 146.1  | 133.4  | 130.2  | 121.7  | 110.1  | 117.5  |
| 80°   | 2134.3  | 1934.2  | 517.7  | 309.1  | 159.9  | 106.9  | 102.7  | 101.6  | 92.1   | 79.4   | 80.5   |
| 82.5° | 1452.5  | 1425.0  | 268.9  | 175.7  | 92.1   | 62.5   | 60.3   | 62.5   | 51.9   | 42.3   | 42.3   |
| 85°   | 567.4   | 774.9   | 127.0  | 68.8   | 29.6   | 9.5    | 13.8   | 14.8   | 8.5    | 4.2    | 5.3    |
| 87.5° | 10.6    | 79.4    | 3.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 |
| 2.5°  | 4300.3 | 4290.8 | 4306.6 | 4238.9 | 4252.6 | 4278.1 | 4290.8 | 4298.2 | 4403.0 | 4378.6 | 4445.3 |
| 5°    | 3354.9 | 3345.4 | 3406.8 | 3415.2 | 3447.0 | 3440.7 | 3471.4 | 3478.8 | 3516.9 | 3530.6 | 3623.8 |
| 7.5°  | 2440.2 | 2481.5 | 2551.4 | 2587.4 | 2641.4 | 2658.3 | 2642.4 | 2681.6 | 2602.2 | 2659.4 | 2676.3 |
| 10°   | 1960.6 | 1910.9 | 1881.2 | 1963.8 | 1974.4 | 2052.7 | 2021.0 | 1995.6 | 2042.2 | 2044.3 | 2088.7 |
| 12.5° | 1632.5 | 1525.5 | 1454.6 | 1477.9 | 1503.3 | 1537.2 | 1542.5 | 1593.3 | 1627.2 | 1658.9 | 1685.4 |
| 15°   | 1279.9 | 1242.9 | 1178.3 | 1146.5 | 1182.5 | 1196.3 | 1229.1 | 1271.5 | 1307.4 | 1317.0 | 1353.0 |
| 17.5° | 982.4  | 988.8  | 978.2  | 959.1  | 981.4  | 992.0  | 994.1  | 995.1  | 1004.7 | 998.3  | 1051.3 |
| 20°   | 790.8  | 813.1  | 839.5  | 843.8  | 851.2  | 856.5  | 846.9  | 810.9  | 812.0  | 834.2  | 851.2  |
| 22.5° | 715.7  | 719.9  | 749.5  | 759.1  | 782.4  | 772.8  | 745.3  | 728.4  | 726.2  | 731.5  | 740.0  |
| 25°   | 656.4  | 662.7  | 683.9  | 698.7  | 716.7  | 699.8  | 679.7  | 663.8  | 661.7  | 667.0  | 675.4  |
| 27.5° | 603.4  | 613.0  | 632.0  | 646.8  | 663.8  | 647.9  | 628.8  | 615.1  | 614.0  | 613.0  | 618.3  |
| 30°   | 561.1  | 571.7  | 585.4  | 602.4  | 614.0  | 600.3  | 582.3  | 574.9  | 573.8  | 571.7  | 573.8  |
| 32.5° | 518.7  | 535.7  | 549.4  | 557.9  | 569.6  | 559.0  | 545.2  | 541.0  | 533.6  | 527.2  | 524.0  |
| 35°   | 471.1  | 489.1  | 510.3  | 520.9  | 532.5  | 521.9  | 512.4  | 494.4  | 481.7  | 480.6  | 482.7  |
| 37.5° | 443.6  | 451.0  | 467.9  | 485.9  | 497.6  | 492.3  | 474.3  | 456.3  | 453.1  | 453.1  | 455.2  |
| 40°   | 419.2  | 422.4  | 429.8  | 453.1  | 474.3  | 458.4  | 436.2  | 430.9  | 430.9  | 429.8  | 430.9  |
| 42.5° | 394.9  | 398.1  | 398.1  | 416.1  | 449.9  | 424.5  | 407.6  | 407.6  | 407.6  | 408.6  | 411.8  |
| 45°   | 372.6  | 373.7  | 372.6  | 385.4  | 417.1  | 395.9  | 384.3  | 387.5  | 389.6  | 391.7  | 393.8  |
| 47.5° | 353.6  | 354.7  | 353.6  | 364.2  | 380.1  | 371.6  | 365.2  | 369.5  | 373.7  | 376.9  | 379.0  |
| 50°   | 336.7  | 335.6  | 337.7  | 344.1  | 351.5  | 353.6  | 349.4  | 355.7  | 357.8  | 362.1  | 367.4  |
| 52.5° | 321.8  | 320.8  | 322.9  | 326.1  | 336.7  | 336.7  | 336.7  | 341.9  | 346.2  | 350.4  | 357.8  |
| 55°   | 304.9  | 306.0  | 309.1  | 313.4  | 327.1  | 325.0  | 326.1  | 330.3  | 334.5  | 340.9  | 345.1  |
| 57.5° | 289.0  | 291.1  | 295.4  | 301.7  | 315.5  | 314.4  | 315.5  | 317.6  | 322.9  | 326.1  | 330.3  |
| 60°   | 271.0  | 275.3  | 280.5  | 284.8  | 298.5  | 297.5  | 302.8  | 307.0  | 310.2  | 310.2  | 312.3  |
| 62.5° | 253.0  | 259.4  | 264.7  | 267.8  | 282.7  | 283.7  | 291.1  | 294.3  | 296.4  | 294.3  | 297.5  |
| 65°   | 235.0  | 244.6  | 246.7  | 250.9  | 265.7  | 266.8  | 275.3  | 282.7  | 280.5  | 278.4  | 283.7  |
| 67.5° | 217.0  | 228.7  | 227.6  | 232.9  | 247.7  | 249.8  | 257.3  | 270.0  | 265.7  | 263.6  | 267.8  |
| 70°   | 196.9  | 205.4  | 206.4  | 209.6  | 229.7  | 226.6  | 238.2  | 249.8  | 246.7  | 247.7  | 247.7  |
| 72.5° | 174.7  | 182.1  | 182.1  | 188.4  | 209.6  | 204.3  | 213.8  | 226.6  | 226.6  | 225.5  | 225.5  |
| 75°   | 148.2  | 152.4  | 156.7  | 166.2  | 188.4  | 182.1  | 188.4  | 200.1  | 202.2  | 200.1  | 200.1  |
| 77.5° | 119.6  | 126.0  | 128.1  | 140.8  | 156.7  | 155.6  | 162.0  | 167.3  | 171.5  | 169.4  | 169.4  |
| 80°   | 84.7   | 91.0   | 99.5   | 113.3  | 122.8  | 126.0  | 129.2  | 133.4  | 135.5  | 135.5  | 137.6  |
| 82.5° | 47.6   | 57.2   | 64.6   | 78.3   | 82.6   | 98.5   | 97.4   | 100.6  | 97.4   | 85.8   | 95.3   |
| 85°   | 10.6   | 20.1   | 28.6   | 36.0   | 41.3   | 57.2   | 60.3   | 67.8   | 56.1   | 51.9   | 51.9   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 8.5    | 16.9   | 23.3   | 20.1   | 16.9   | 16.9   |
| 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°    | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8 | 5157.8  | 5157.8  | 5157.8  |
| 2.5°  | 4501.4 | 4593.5 | 4704.7 | 4896.3 | 5030.8 | 5175.8 | 5321.9 | 5477.5  | 5518.8  | 5561.2  |
| 5°    | 3649.2 | 3830.2 | 3928.7 | 4186.0 | 4455.9 | 4798.9 | 5079.5 | 5386.5  | 5514.6  | 5544.2  |
| 7.5°  | 2764.2 | 2887.0 | 3145.3 | 3405.7 | 3740.3 | 4100.2 | 4530.0 | 5008.5  | 5157.8  | 5220.3  |
| 10°   | 2191.4 | 2358.7 | 2585.3 | 2864.7 | 3158.0 | 3545.5 | 4030.3 | 4589.3  | 4801.0  | 4836.0  |
| 12.5° | 1865.4 | 2051.7 | 2298.4 | 2593.7 | 2871.1 | 3163.3 | 3652.4 | 4229.4  | 4455.9  | 4531.1  |
| 15°   | 1491.7 | 1717.2 | 2001.9 | 2313.2 | 2614.9 | 2934.6 | 3430.1 | 4081.1  | 4342.6  | 4430.5  |
| 17.5° | 1171.9 | 1354.0 | 1662.1 | 1999.8 | 2357.6 | 2762.0 | 3383.5 | 4152.1  | 4473.9  | 4555.4  |
| 20°   | 896.7  | 1026.9 | 1286.3 | 1643.0 | 2062.3 | 2591.6 | 3395.1 | 4419.9  | 4805.3  | 4916.4  |
| 22.5° | 774.9  | 841.6  | 999.4  | 1339.2 | 1808.2 | 2443.4 | 3442.8 | 4787.3  | 5252.0  | 5437.3  |
| 25°   | 701.9  | 736.8  | 825.8  | 1048.1 | 1565.8 | 2299.4 | 3551.8 | 5281.7  | 5876.6  | 5999.4  |
| 27.5° | 639.4  | 664.8  | 719.9  | 879.7  | 1345.6 | 2166.0 | 3678.9 | 5830.1  | 6460.0  | 6643.1  |
| 30°   | 580.1  | 614.0  | 665.9  | 781.3  | 1204.8 | 2044.3 | 3838.7 | 6274.7  | 6951.2  | 7121.6  |
| 32.5° | 534.6  | 568.5  | 616.1  | 712.5  | 1085.1 | 1916.2 | 3934.0 | 6665.3  | 7352.4  | 7497.4  |
| 35°   | 497.6  | 526.2  | 575.9  | 657.4  | 994.1  | 1818.8 | 3914.9 | 6975.5  | 7740.9  | 7889.2  |
| 37.5° | 471.1  | 495.5  | 545.2  | 605.6  | 925.3  | 1717.2 | 3905.4 | 7385.2  | 8214.2  | 8385.7  |
| 40°   | 446.8  | 472.2  | 517.7  | 571.7  | 856.5  | 1597.5 | 3910.7 | 7791.8  | 8718.1  | 8889.6  |
| 42.5° | 427.7  | 456.3  | 493.3  | 562.1  | 785.5  | 1501.2 | 3910.7 | 8145.3  | 9156.4  | 9321.5  |
| 45°   | 411.8  | 442.5  | 478.5  | 561.1  | 729.4  | 1428.1 | 3884.2 | 8449.2  | 9505.7  | 9646.5  |
| 47.5° | 398.1  | 431.9  | 483.8  | 542.0  | 715.7  | 1375.2 | 3860.9 | 8692.7  | 9790.5  | 9922.8  |
| 50°   | 388.5  | 428.8  | 514.5  | 519.8  | 719.9  | 1359.3 | 3973.2 | 8999.7  | 10041.4 | 10155.7 |
| 52.5° | 381.1  | 429.8  | 513.5  | 487.0  | 712.5  | 1369.9 | 4207.1 | 9479.3  | 10389.7 | 10398.2 |
| 55°   | 366.3  | 428.8  | 487.0  | 449.9  | 681.8  | 1387.9 | 4507.8 | 10175.9 | 10934.9 | 10941.3 |
| 57.5° | 351.5  | 417.1  | 452.0  | 418.2  | 619.3  | 1387.9 | 4869.8 | 10835.4 | 11592.4 | 11597.6 |
| 60°   | 336.7  | 434.1  | 397.0  | 390.6  | 537.8  | 1362.5 | 5252.0 | 11125.5 | 11798.8 | 11852.8 |
| 62.5° | 321.8  | 437.2  | 354.7  | 366.3  | 478.5  | 1301.1 | 5536.8 | 10804.7 | 11519.3 | 11596.6 |
| 65°   | 304.9  | 352.5  | 327.1  | 340.9  | 447.8  | 1198.4 | 5446.8 | 10217.1 | 10994.2 | 11086.3 |
| 67.5° | 284.8  | 298.5  | 297.5  | 314.4  | 437.2  | 1047.0 | 4972.5 | 9474.0  | 10428.9 | 10423.6 |
| 70°   | 260.4  | 267.8  | 271.0  | 289.0  | 417.1  | 929.5  | 4143.6 | 8509.5  | 9674.1  | 9792.6  |
| 72.5° | 235.0  | 241.4  | 244.6  | 260.4  | 397.0  | 862.8  | 3216.2 | 7180.9  | 8379.3  | 8564.6  |
| 75°   | 207.5  | 211.7  | 216.0  | 229.7  | 375.8  | 764.4  | 2290.9 | 5481.8  | 6417.6  | 6708.7  |
| 77.5° | 178.9  | 178.9  | 184.2  | 198.0  | 316.5  | 631.0  | 1537.2 | 3845.1  | 4347.9  | 4645.4  |
| 80°   | 145.0  | 146.1  | 144.0  | 158.8  | 232.9  | 431.9  | 873.4  | 2568.3  | 2893.3  | 2950.5  |
| 82.5° | 111.2  | 108.0  | 109.0  | 116.5  | 173.6  | 294.3  | 465.8  | 1595.4  | 1626.1  | 1594.3  |
| 85°   | 69.9   | 69.9   | 67.8   | 76.2   | 111.2  | 153.5  | 254.1  | 977.1   | 763.3   | 726.2   |
| 87.5° | 28.6   | 23.3   | 26.5   | 30.7   | 52.9   | 62.5   | 99.5   | 201.1   | 77.3    | 70.9    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |

(END OF REPORT)