

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: P534172

Luminaire Tested: **GALN-SA9C-827-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534172  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-827-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39946 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

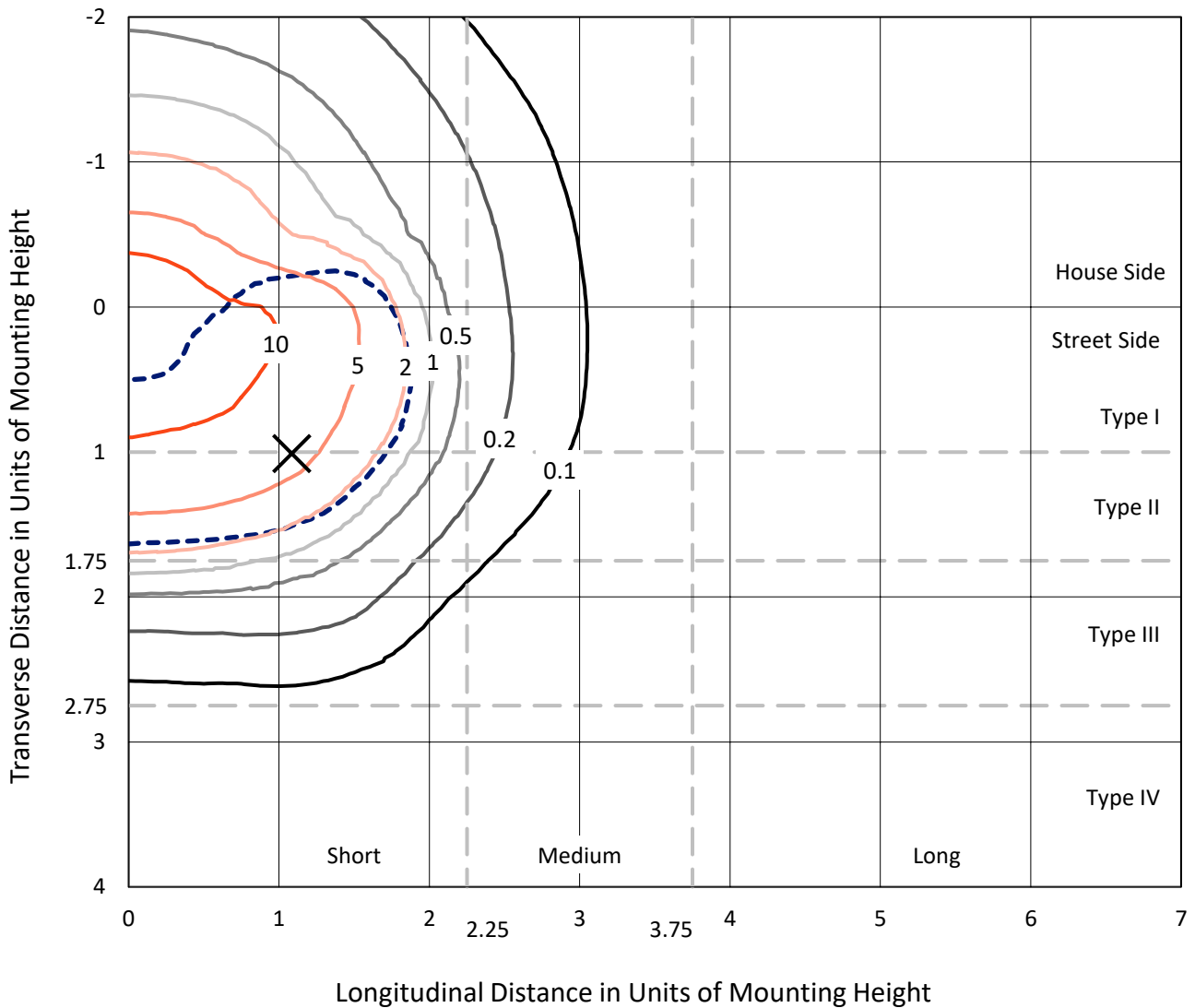
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

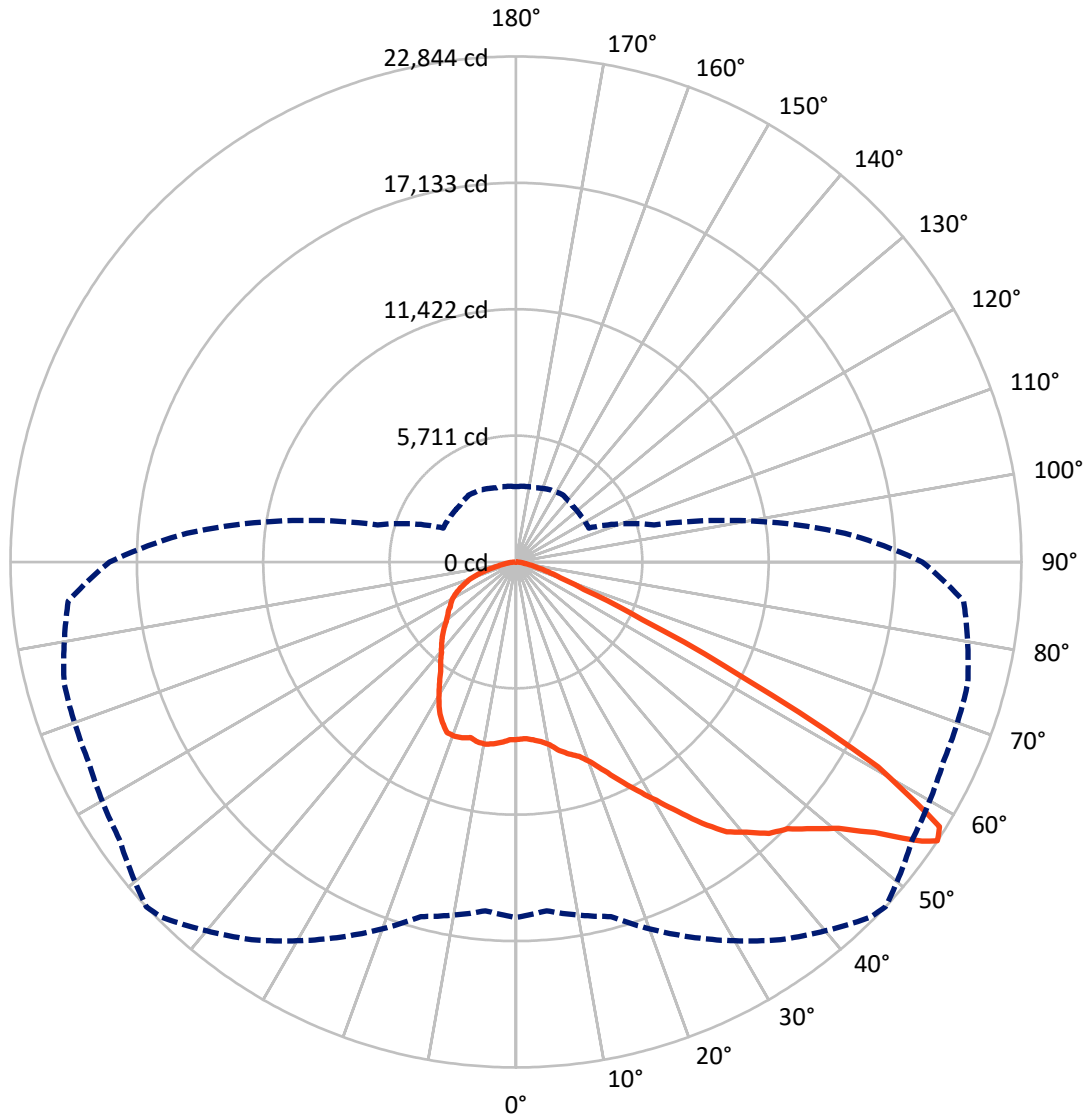
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12658.4  | 0.0    | 12658.4 |
|                    | % Fixture | 31.7     | 0.0    | 31.7    |
| <b>Street Side</b> | Lumens    | 27287.6  | 0.0    | 27287.6 |
|                    | % Fixture | 68.3     | 0.0    | 68.3    |
| <b>Total</b>       | Lumens    | 39946.0  | 0.0    | 39946.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 781.8   | 2.0       |
| 10°-20°   | 2466.3  | 6.2       |
| 20°-30°   | 4359.8  | 10.9      |
| 30°-40°   | 6548.2  | 16.4      |
| 40°-50°   | 8986.8  | 22.5      |
| 50°-60°   | 10706.6 | 26.8      |
| 60°-70°   | 4581.8  | 11.5      |
| 70°-80°   | 1296.6  | 3.2       |
| 80°-90°   | 218.2   | 0.5       |
| 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°    | 39946.0 | 100.0     |
| 0°-180°   | 39946.0 | 100.0     |

**Coefficient of Utilization**



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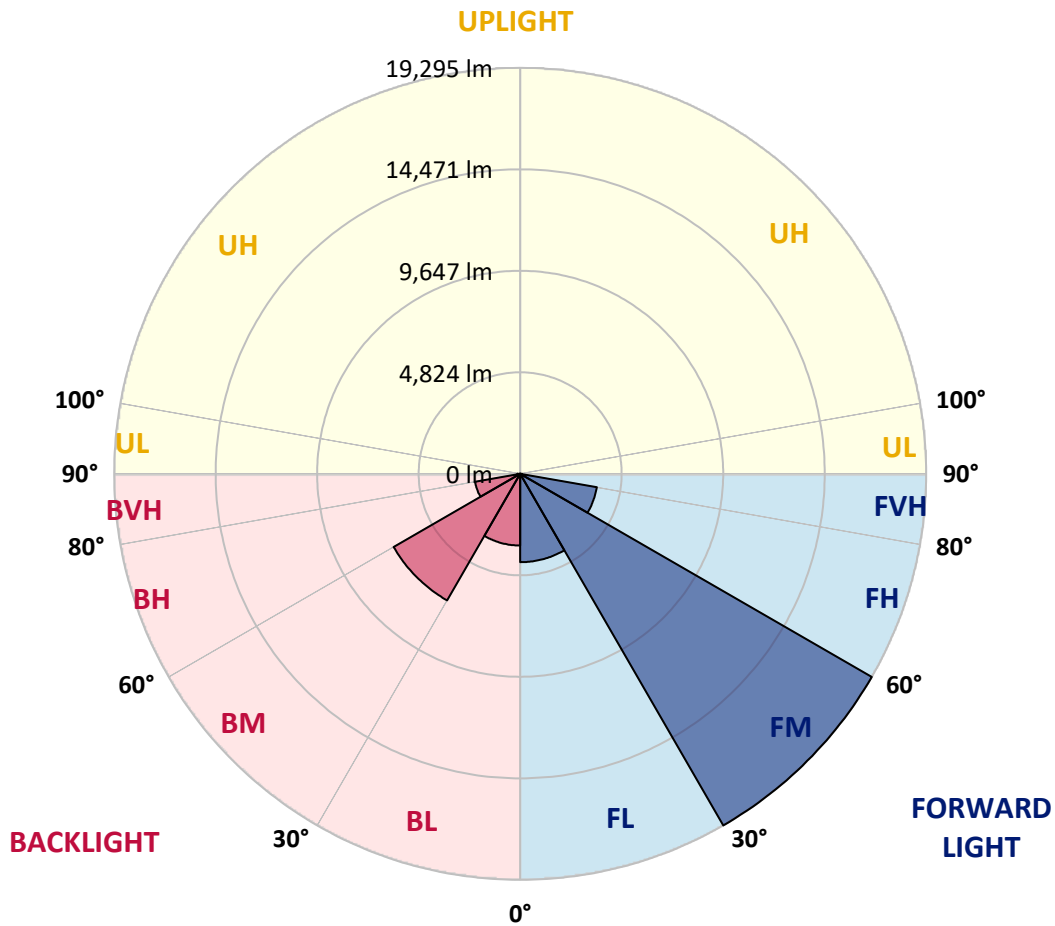
CATALOG NUMBER: GALN-SA9C-827-U-T3-GRSWH

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4199.7  | 10.5      |                         |      |         |
| FM (30°-60°)   | 19294.8 | 48.3      |                         |      |         |
| FH (60°-80°)   | 3700.5  | 9.3       |                         |      | G2/5000 |
| FVH (80°-90°)  | 92.6    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 3408.2  | 8.5       | B4/5000                 |      |         |
| BM (30°-60°)   | 6946.7  | 17.4      | B4/8500                 |      |         |
| BH (60°-80°)   | 2177.9  | 5.5       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 125.6   | 0.3       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 47°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8023.9  | 8023.9  | 8023.9  | 8023.9  | 8023.9  | 8023.9  | 8023.9  | 8023.9  | 8023.9  | 8023.9  | 8023.9  |
| 2.5°  | 7993.4  | 7978.1  | 7967.9  | 8049.4  | 8018.8  | 8023.9  | 7993.4  | 8023.9  | 8044.3  | 7998.5  | 8064.7  |
| 5°    | 7978.1  | 8023.9  | 7983.2  | 8008.7  | 8074.9  | 8054.5  | 8074.9  | 8136.0  | 8120.7  | 8105.5  | 8085.1  |
| 7.5°  | 8120.7  | 8125.8  | 8156.4  | 8166.6  | 8187.0  | 8166.6  | 8197.2  | 8253.2  | 8237.9  | 8151.3  | 8161.5  |
| 10°   | 8324.5  | 8334.7  | 8339.8  | 8395.8  | 8431.5  | 8436.6  | 8400.9  | 8350.0  | 8344.9  | 8462.1  | 8380.6  |
| 12.5° | 8558.9  | 8533.4  | 8594.5  | 8614.9  | 8655.7  | 8701.5  | 8747.4  | 8640.4  | 8706.6  | 8711.7  | 8614.9  |
| 15°   | 8900.2  | 8925.7  | 8854.4  | 8854.4  | 8869.6  | 8874.7  | 9002.1  | 8951.1  | 8941.0  | 8884.9  | 8925.7  |
| 17.5° | 9409.7  | 9236.4  | 9231.3  | 9160.0  | 9149.8  | 9190.6  | 9236.4  | 9277.2  | 9414.8  | 9302.7  | 9083.6  |
| 20°   | 9781.6  | 9822.3  | 9674.6  | 9588.0  | 9603.3  | 9695.0  | 9649.1  | 9832.5  | 9929.3  | 9745.9  | 9531.9  |
| 22.5° | 10438.8 | 10301.2 | 10336.9 | 10143.3 | 10158.6 | 10255.4 | 10250.3 | 10438.8 | 10494.8 | 10204.4 | 9893.6  |
| 25°   | 10882.0 | 10846.3 | 10876.9 | 10724.1 | 10744.4 | 10820.9 | 10943.1 | 11253.9 | 11162.2 | 10841.2 | 10122.9 |
| 27.5° | 11529.0 | 11457.7 | 11432.2 | 11376.2 | 11355.8 | 11559.6 | 11702.2 | 12033.4 | 11967.1 | 11498.4 | 10530.5 |
| 30°   | 12191.3 | 12145.4 | 12170.9 | 11941.7 | 12023.2 | 12456.2 | 12497.0 | 12950.4 | 12919.8 | 12094.5 | 10983.9 |
| 32.5° | 12649.8 | 12675.3 | 12721.1 | 12593.8 | 12955.5 | 13301.9 | 13439.5 | 13954.0 | 13979.5 | 13118.5 | 11860.1 |
| 35°   | 13388.5 | 13301.9 | 13327.4 | 13475.1 | 13643.2 | 14275.0 | 14499.1 | 14840.5 | 15054.4 | 14193.5 | 12700.7 |
| 37.5° | 13852.1 | 13943.8 | 13836.8 | 14071.2 | 14509.3 | 15268.4 | 15472.2 | 15823.7 | 16047.9 | 15253.1 | 13847.0 |
| 40°   | 14575.5 | 14427.8 | 14504.2 | 14672.3 | 15120.7 | 16109.0 | 16053.0 | 16414.7 | 16486.0 | 16154.9 | 14916.9 |
| 42.5° | 15355.0 | 15283.7 | 15176.7 | 15558.8 | 15935.8 | 16654.1 | 16766.2 | 16598.1 | 16959.8 | 17036.2 | 16445.3 |
| 45°   | 16287.3 | 16373.9 | 16389.2 | 16399.4 | 16730.5 | 17357.2 | 17204.3 | 17056.6 | 17474.4 | 18029.7 | 17392.8 |
| 47.5° | 17153.4 | 16878.3 | 17077.0 | 17352.1 | 17820.8 | 17825.9 | 18004.2 | 17652.7 | 18095.9 | 18590.1 | 18248.7 |
| 50°   | 17443.8 | 17311.3 | 17576.2 | 18095.9 | 18819.3 | 18895.7 | 18916.1 | 18416.8 | 18646.1 | 19038.4 | 18544.2 |
| 52.5° | 17331.7 | 17285.9 | 17963.4 | 18768.4 | 19828.0 | 20215.2 | 20317.1 | 19700.7 | 19828.0 | 19649.7 | 19196.3 |
| 55°   | 16796.8 | 16934.3 | 17617.0 | 19257.5 | 20882.6 | 22079.8 | 22273.4 | 21494.0 | 20683.9 | 20821.5 | 20322.2 |
| 56°   | 16063.2 | 15823.7 | 16587.9 | 18702.1 | 20836.8 | 22686.1 | 22844.0 | 21871.0 | 21320.7 | 21142.4 | 20312.0 |
| 57.5° | 13628.0 | 13317.2 | 14320.8 | 16827.3 | 19680.3 | 22456.8 | 22574.0 | 22028.9 | 21213.8 | 20852.0 | 18829.5 |
| 60°   | 7978.1  | 8130.9  | 9404.6  | 11605.4 | 15181.8 | 18411.8 | 18804.0 | 19201.4 | 18656.3 | 17036.2 | 14015.1 |
| 62.5° | 3851.5  | 3754.7  | 4666.6  | 6653.5  | 9251.7  | 11753.2 | 11636.0 | 12751.7 | 13363.0 | 12104.7 | 8849.3  |
| 65°   | 2017.4  | 2007.3  | 2547.3  | 3632.4  | 5084.4  | 6174.6  | 6281.6  | 6882.8  | 7723.4  | 6235.7  | 4493.4  |
| 67.5° | 1482.5  | 1523.3  | 1793.3  | 2552.4  | 3270.7  | 3336.9  | 3321.7  | 3622.2  | 3703.7  | 3133.2  | 2761.3  |
| 70°   | 1161.6  | 1181.9  | 1380.6  | 1941.0  | 2435.2  | 2180.5  | 2134.6  | 2170.3  | 2409.7  | 2511.6  | 2389.4  |
| 72.5° | 840.6   | 861.0   | 1029.1  | 1309.3  | 1523.3  | 1487.6  | 1518.2  | 1716.9  | 2012.4  | 2119.3  | 1992.0  |
| 75°   | 560.4   | 575.7   | 667.4   | 799.8   | 901.7   | 973.1   | 1029.1  | 1258.4  | 1533.5  | 1594.6  | 1533.5  |
| 77.5° | 387.2   | 402.5   | 463.6   | 565.5   | 575.7   | 621.5   | 641.9   | 748.9   | 917.0   | 993.4   | 952.7   |
| 80°   | 219.1   | 219.1   | 249.6   | 290.4   | 356.6   | 417.8   | 427.9   | 514.6   | 591.0   | 641.9   | 652.1   |
| 82.5° | 101.9   | 107.0   | 132.5   | 178.3   | 234.3   | 290.4   | 300.6   | 356.6   | 412.7   | 463.6   | 478.9   |
| 85°   | 50.9    | 56.0    | 76.4    | 107.0   | 142.6   | 173.2   | 168.1   | 173.2   | 183.4   | 173.2   | 178.3   |
| 87.5° | 15.3    | 15.3    | 20.4    | 25.5    | 20.4    | 25.5    | 25.5    | 30.6    | 35.7    | 40.8    | 45.9    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8023.9  | 8023.9  | 8023.9 | 8023.9 | 8023.9 | 8023.9 | 8023.9 | 8023.9 | 8023.9 | 8023.9 | 8023.9 |
| 2.5°  | 8069.8  | 8085.1  | 7983.2 | 8080.0 | 8044.3 | 8039.2 | 8110.5 | 8100.4 | 8125.8 | 8115.6 | 8054.5 |
| 5°    | 8074.9  | 8039.2  | 8146.2 | 8049.4 | 8095.3 | 8192.1 | 8125.8 | 8278.7 | 8202.2 | 8253.2 | 8141.1 |
| 7.5°  | 8232.8  | 8243.0  | 8222.6 | 8263.4 | 8243.0 | 8288.9 | 8253.2 | 8288.9 | 8227.7 | 8232.8 | 8334.7 |
| 10°   | 8370.4  | 8339.8  | 8375.5 | 8324.5 | 8360.2 | 8344.9 | 8263.4 | 8237.9 | 8258.3 | 8232.8 | 8299.0 |
| 12.5° | 8625.1  | 8569.1  | 8543.6 | 8482.4 | 8441.7 | 8288.9 | 8161.5 | 8090.2 | 8187.0 | 8202.2 | 8171.7 |
| 15°   | 8884.9  | 8890.0  | 8772.8 | 8635.3 | 8380.6 | 8151.3 | 8181.9 | 8207.3 | 8207.3 | 8248.1 | 8171.7 |
| 17.5° | 9047.9  | 9047.9  | 8941.0 | 8665.9 | 8406.0 | 8273.6 | 8243.0 | 8161.5 | 8090.2 | 8080.0 | 8074.9 |
| 20°   | 9333.2  | 9246.6  | 9002.1 | 8660.8 | 8395.8 | 8334.7 | 8105.5 | 7911.9 | 7764.1 | 7713.2 | 7708.1 |
| 22.5° | 9659.3  | 9440.2  | 9098.9 | 8670.9 | 8380.6 | 8293.9 | 7866.0 | 7575.6 | 7310.7 | 7198.6 | 7213.9 |
| 25°   | 9959.9  | 9608.3  | 9154.9 | 8625.1 | 8324.5 | 7906.8 | 7427.9 | 7025.4 | 6750.3 | 6658.6 | 6612.7 |
| 27.5° | 10168.7 | 9786.7  | 9154.9 | 8665.9 | 8115.6 | 7473.7 | 6984.6 | 6470.1 | 6230.7 | 6169.5 | 6179.7 |
| 30°   | 10449.0 | 10010.8 | 9312.9 | 8579.2 | 7697.9 | 6913.3 | 6327.4 | 5991.2 | 5848.6 | 5797.6 | 5833.3 |
| 32.5° | 11106.1 | 10596.7 | 9531.9 | 8370.4 | 7203.7 | 6352.9 | 5879.1 | 5690.6 | 5481.8 | 5379.9 | 5344.2 |
| 35°   | 11819.4 | 11152.0 | 9745.9 | 8018.8 | 6648.4 | 5843.5 | 5548.0 | 5374.8 | 5125.1 | 5013.1 | 5033.4 |
| 37.5° | 12828.1 | 11865.2 | 9761.2 | 7438.1 | 6047.2 | 5558.2 | 5288.2 | 5018.1 | 4814.4 | 4641.1 | 4590.2 |
| 40°   | 14188.4 | 12838.3 | 9725.5 | 6826.7 | 5563.3 | 5221.9 | 5023.2 | 4687.0 | 4457.7 | 4335.5 | 4360.9 |
| 42.5° | 15385.6 | 13979.5 | 9577.8 | 6133.9 | 5125.1 | 4992.7 | 4768.5 | 4437.4 | 4213.2 | 4085.8 | 4075.7 |
| 45°   | 16394.3 | 14820.1 | 9297.6 | 5542.9 | 4758.3 | 4737.9 | 4478.1 | 4223.4 | 4045.1 | 3927.9 | 3978.9 |
| 47.5° | 17326.6 | 15497.7 | 8874.7 | 4951.9 | 4422.1 | 4462.8 | 4213.2 | 4055.3 | 3943.2 | 3836.2 | 3831.1 |
| 50°   | 17662.9 | 15487.5 | 8502.8 | 4462.8 | 4152.1 | 4131.7 | 4121.5 | 3953.4 | 3836.2 | 3744.5 | 3785.3 |
| 52.5° | 18223.3 | 15660.7 | 8100.4 | 4126.6 | 3907.5 | 3912.6 | 3948.3 | 3826.0 | 3693.6 | 3637.5 | 3688.5 |
| 55°   | 19028.2 | 15686.2 | 7213.9 | 3734.3 | 3703.7 | 3739.4 | 3739.4 | 3657.9 | 3545.8 | 3500.0 | 3474.5 |
| 56°   | 18371.0 | 14927.1 | 6470.1 | 3632.4 | 3601.9 | 3601.9 | 3698.7 | 3607.0 | 3469.4 | 3433.7 | 3403.2 |
| 57.5° | 16944.5 | 13077.7 | 5415.5 | 3510.2 | 3464.3 | 3535.6 | 3586.6 | 3489.8 | 3362.4 | 3311.5 | 3342.0 |
| 60°   | 11686.9 | 8849.3  | 4070.6 | 3245.2 | 3245.2 | 3362.4 | 3403.2 | 3260.5 | 3204.5 | 3199.4 | 3158.6 |
| 62.5° | 6821.6  | 5155.7  | 3184.1 | 3005.8 | 3016.0 | 3112.8 | 3143.3 | 3061.8 | 2990.5 | 3077.1 | 3117.9 |
| 65°   | 3617.1  | 3077.1  | 2730.7 | 2751.1 | 2756.2 | 2832.6 | 2965.0 | 2959.9 | 2954.8 | 2980.3 | 2985.4 |
| 67.5° | 2618.6  | 2557.5  | 2481.1 | 2460.7 | 2470.9 | 2526.9 | 2659.4 | 2761.3 | 2756.2 | 2695.0 | 2649.2 |
| 70°   | 2333.3  | 2246.7  | 2200.9 | 2205.9 | 2165.2 | 2231.4 | 2338.4 | 2404.6 | 2287.5 | 2216.1 | 2185.6 |
| 72.5° | 1941.0  | 1915.6  | 1885.0 | 1890.1 | 1808.6 | 1793.3 | 1671.0 | 1671.0 | 1640.4 | 1620.1 | 1655.7 |
| 75°   | 1482.5  | 1472.3  | 1487.6 | 1462.1 | 1375.5 | 1283.8 | 1212.5 | 1146.3 | 1044.4 | 1003.6 | 983.3  |
| 77.5° | 937.4   | 968.0   | 1003.6 | 947.6  | 911.9  | 845.7  | 774.4  | 708.1  | 626.6  | 580.8  | 580.8  |
| 80°   | 636.8   | 662.3   | 687.8  | 677.6  | 636.8  | 575.7  | 519.6  | 448.3  | 392.3  | 356.6  | 351.5  |
| 82.5° | 484.0   | 504.4   | 540.0  | 499.3  | 458.5  | 407.6  | 361.7  | 310.8  | 259.8  | 219.1  | 219.1  |
| 85°   | 173.2   | 198.7   | 219.1  | 239.4  | 254.7  | 259.8  | 224.2  | 183.4  | 147.7  | 117.2  | 112.1  |
| 87.5° | 45.9    | 50.9    | 56.0   | 50.9   | 50.9   | 50.9   | 56.0   | 50.9   | 45.9   | 35.7   | 35.7   |
| 90°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)