

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: P457069

Luminaire Tested: **GALN-SA8B-827-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27644 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

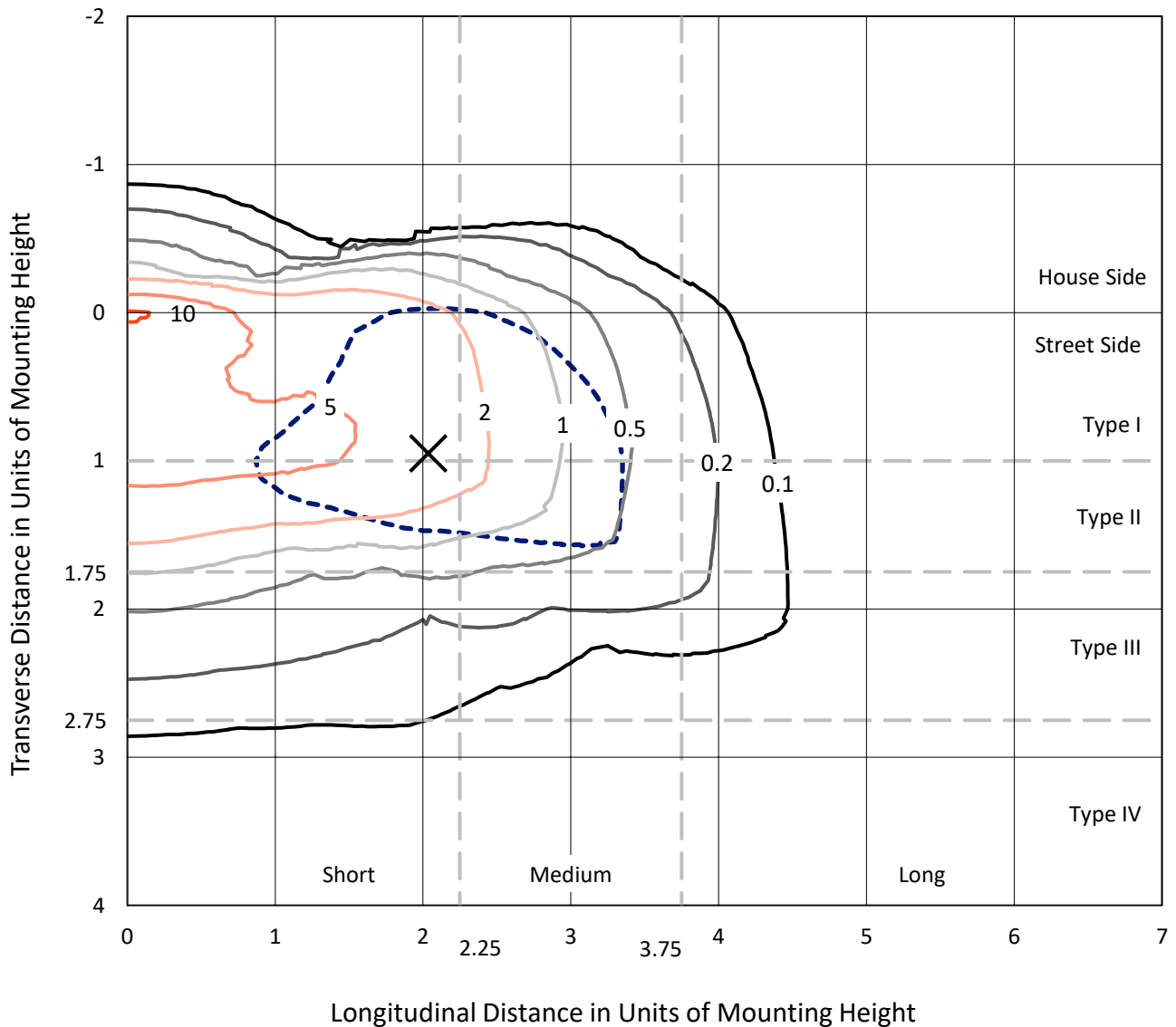
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

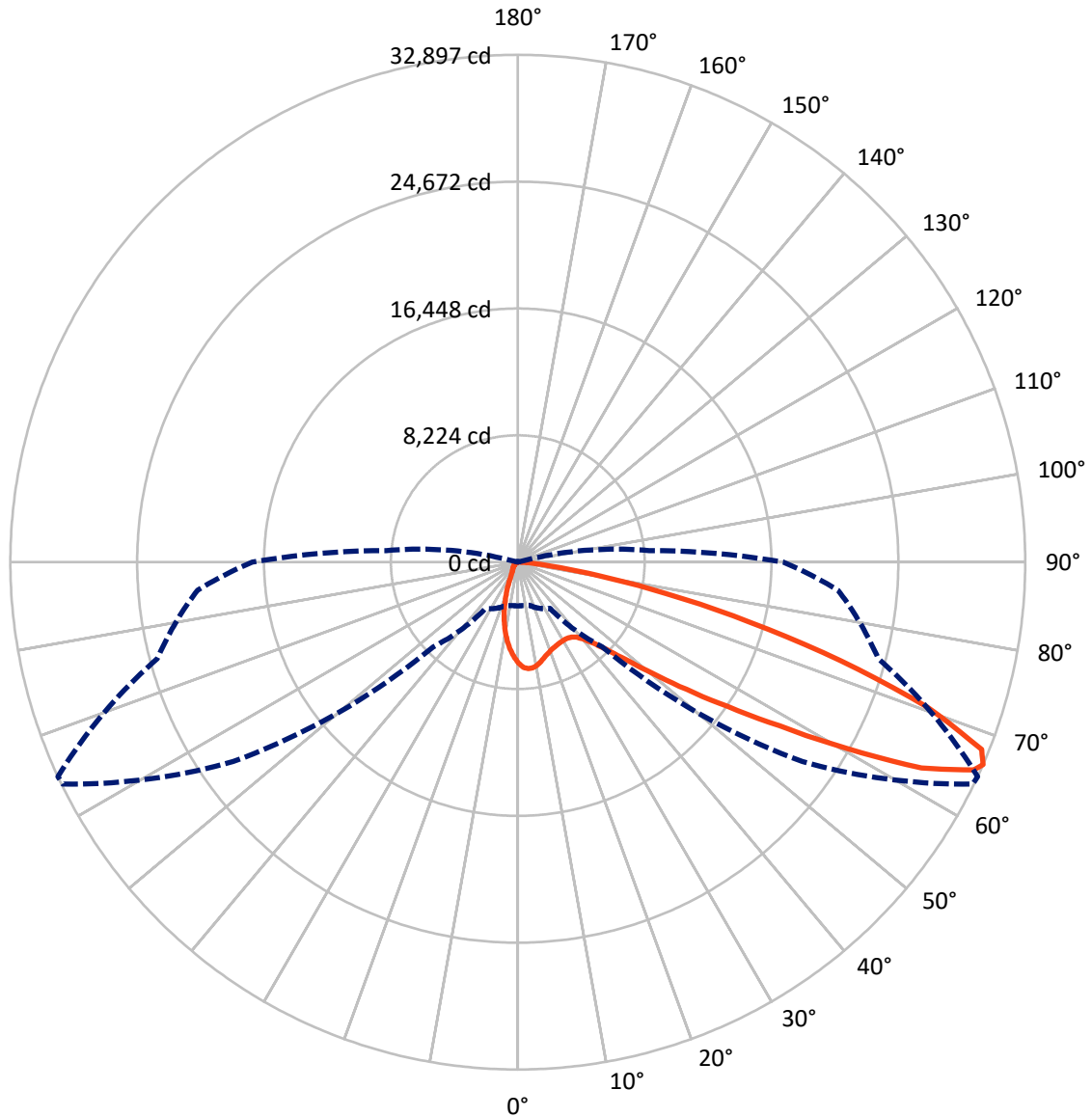
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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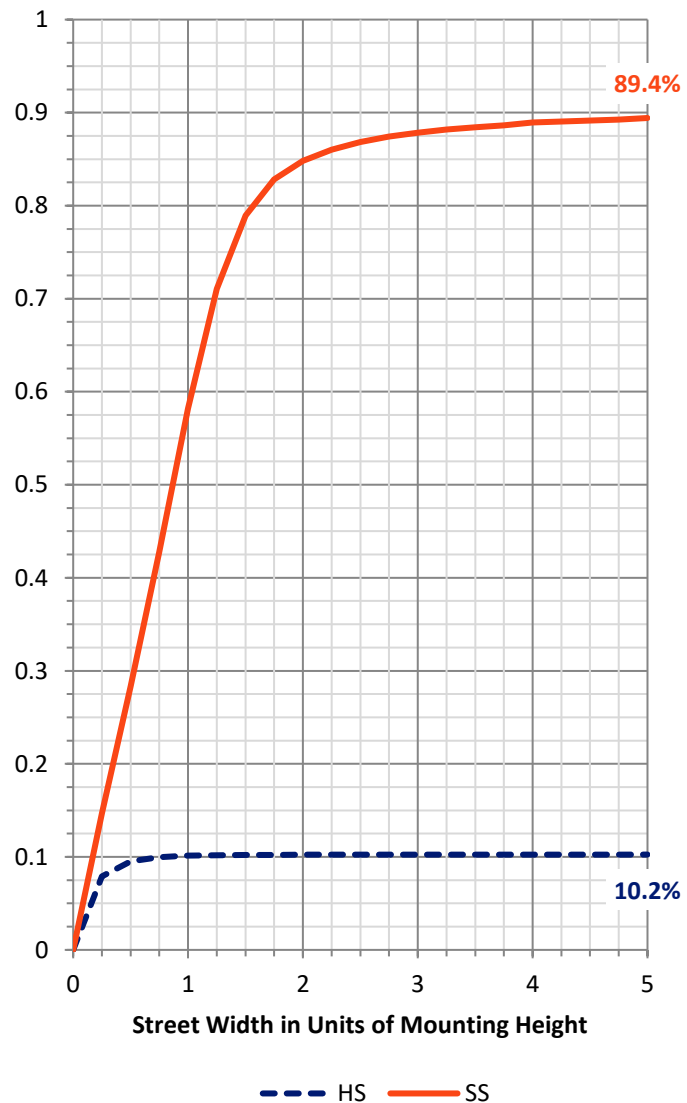
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2858.8 | 0.0 | 2858.8 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 24785.2 | 0.0 | 24785.2 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 27644.0 | 0.0 | 27644.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 536.1 | 1.9 |
| 10°-20° | 1168.2 | 4.2 |
| 20°-30° | 1673.4 | 6.1 |
| 30°-40° | 2444.1 | 8.8 |
| 40°-50° | 4098.4 | 14.8 |
| 50°-60° | 6839.5 | 24.7 |
| 60°-70° | 7259.9 | 26.3 |
| 70°-80° | 3288.0 | 11.9 |
| 80°-90° | 336.4 | 1.2 |
| 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° | 27644.0 | 100.0 |
| 0°-180° | 27644.0 | 100.0 |



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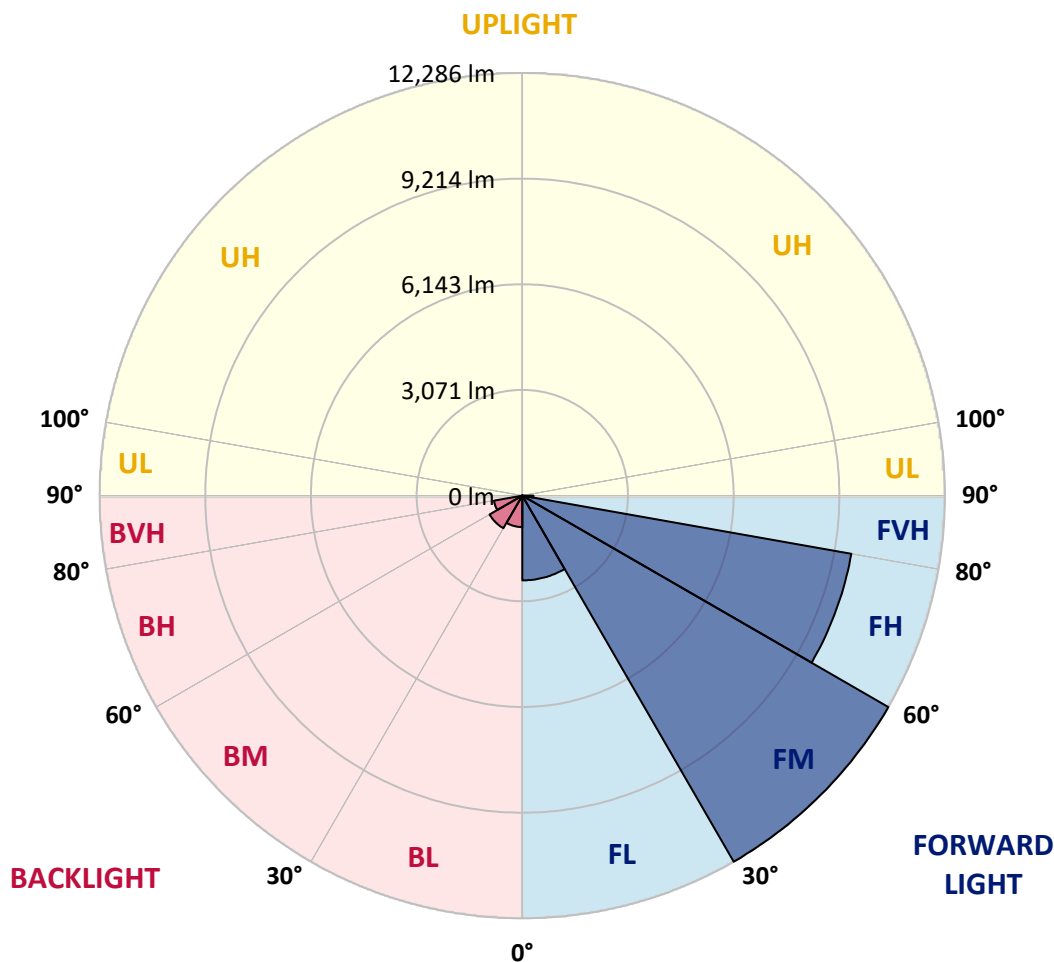
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2463.2 | 8.9 | | | |
| FM (30°-60°) | 12285.6 | 44.4 | | | |
| FH (60°-80°) | 9710.7 | 35.1 | | | G4/12000 |
| FVH (80°-90°) | 325.7 | 1.2 | | | G3/500 |
| BL (0°-30°) | 914.5 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 1096.4 | 4.0 | B2/2500 | | |
| BH (60°-80°) | 837.2 | 3.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 10.7 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6555.4 | 6555.4 | 6555.4 | 6555.4 | 6555.4 | 6555.4 | 6555.4 | 6555.4 | 6555.4 | 6555.4 | 6555.4 |
| 2.5° | 6908.3 | 6915.8 | 6925.1 | 6938.2 | 6947.5 | 6919.5 | 6880.3 | 6835.5 | 6826.1 | 6730.9 | 6615.2 |
| 5° | 6538.6 | 6549.8 | 6632.0 | 6676.8 | 6777.6 | 6869.1 | 6927.0 | 6934.4 | 6930.7 | 6841.1 | 6656.2 |
| 7.5° | 6012.1 | 6043.8 | 6124.1 | 6202.5 | 6391.1 | 6564.7 | 6770.1 | 6913.9 | 6923.2 | 6899.0 | 6669.3 |
| 10° | 5584.5 | 5605.1 | 5646.1 | 5801.1 | 5957.9 | 6223.1 | 6510.6 | 6781.3 | 6803.7 | 6900.8 | 6658.1 |
| 12.5° | 5250.3 | 5280.2 | 5330.6 | 5450.1 | 5638.7 | 5888.9 | 6215.6 | 6579.7 | 6626.4 | 6865.4 | 6626.4 |
| 15° | 5016.9 | 5031.9 | 5082.3 | 5199.9 | 5382.9 | 5614.4 | 5944.9 | 6368.7 | 6409.8 | 6818.7 | 6620.8 |
| 17.5° | 4906.8 | 4923.6 | 4959.0 | 5052.4 | 5203.6 | 5418.3 | 5741.4 | 6198.8 | 6251.1 | 6788.8 | 6641.3 |
| 20° | 4936.6 | 4951.6 | 4953.4 | 5002.0 | 5104.7 | 5285.8 | 5592.0 | 6040.1 | 6107.3 | 6770.1 | 6674.9 |
| 22.5° | 5106.5 | 5108.4 | 5086.0 | 5063.6 | 5099.1 | 5229.8 | 5500.5 | 5939.3 | 6008.3 | 6766.4 | 6714.1 |
| 25° | 5360.5 | 5366.1 | 5328.7 | 5250.3 | 5179.4 | 5246.6 | 5480.0 | 5873.9 | 5935.5 | 6757.1 | 6738.4 |
| 27.5° | 5711.5 | 5709.6 | 5698.4 | 5567.7 | 5366.1 | 5321.3 | 5496.8 | 5838.4 | 5890.7 | 6730.9 | 6747.7 |
| 30° | 6202.5 | 6187.6 | 6163.3 | 6015.8 | 5707.7 | 5502.4 | 5567.7 | 5816.0 | 5864.6 | 6693.6 | 6723.5 |
| 32.5° | 6686.1 | 6742.1 | 6738.4 | 6598.4 | 6213.7 | 5825.4 | 5715.2 | 5845.9 | 5881.4 | 6669.3 | 6688.0 |
| 35° | 7250.0 | 7248.1 | 7391.9 | 7339.6 | 6889.6 | 6238.0 | 5967.3 | 5944.9 | 5972.9 | 6686.1 | 6671.2 |
| 37.5° | 7772.8 | 7821.3 | 8045.4 | 8099.5 | 7688.7 | 6820.5 | 6323.9 | 6157.7 | 6167.1 | 6800.0 | 6712.2 |
| 40° | 8424.4 | 8517.7 | 8852.0 | 9033.1 | 8670.8 | 7685.0 | 6850.4 | 6547.9 | 6549.8 | 7080.1 | 6867.2 |
| 42.5° | 9264.6 | 9412.1 | 9723.9 | 10026.4 | 9832.2 | 8708.2 | 7640.2 | 7166.0 | 7162.2 | 7573.0 | 7222.0 |
| 45° | 10285.9 | 10388.6 | 10743.3 | 11223.2 | 11099.9 | 10136.5 | 8790.3 | 8123.8 | 8075.2 | 8381.4 | 7851.2 |
| 47.5° | 11167.2 | 11307.2 | 11667.6 | 12214.6 | 12774.7 | 11880.4 | 10164.5 | 9440.1 | 9408.4 | 9667.9 | 8930.4 |
| 50° | 11551.8 | 11675.0 | 12054.0 | 12821.4 | 14178.8 | 14169.5 | 12210.9 | 11361.3 | 11307.2 | 11447.2 | 10599.6 |
| 52.5° | 11129.8 | 11245.6 | 11628.3 | 12584.3 | 14839.8 | 16958.9 | 15175.8 | 13771.8 | 13706.4 | 13527.2 | 12593.6 |
| 55° | 9684.7 | 9779.9 | 10345.6 | 11443.5 | 14585.8 | 18818.6 | 19261.1 | 16749.8 | 16495.9 | 15799.5 | 14851.0 |
| 57.5° | 7711.2 | 7662.6 | 8013.6 | 9288.9 | 13095.9 | 19442.2 | 23454.6 | 20459.8 | 20006.0 | 17763.7 | 16761.0 |
| 60° | 5343.7 | 5493.0 | 5634.9 | 6475.1 | 9847.1 | 18361.1 | 26062.9 | 25123.8 | 24526.3 | 19696.1 | 18590.8 |
| 62.5° | 3928.4 | 4027.3 | 4120.7 | 4509.1 | 6191.3 | 14660.5 | 26524.1 | 29914.8 | 29384.5 | 21748.1 | 20336.5 |
| 65° | 3106.9 | 3114.3 | 3151.7 | 3534.4 | 4079.6 | 9533.4 | 24307.9 | 32616.5 | 32480.2 | 23723.5 | 21044.2 |
| 66° | 2830.5 | 2832.4 | 2890.3 | 3301.0 | 3661.4 | 7763.4 | 22532.2 | 32821.9 | 32896.6 | 24197.7 | 20836.9 |
| 67.5° | 2473.9 | 2466.4 | 2550.5 | 2966.8 | 3334.7 | 5597.6 | 19354.4 | 31989.1 | 32431.6 | 24561.8 | 20091.9 |
| 70° | 1917.5 | 1908.2 | 2010.9 | 2488.9 | 3071.4 | 3734.2 | 12864.4 | 27467.0 | 28180.2 | 23816.8 | 17776.7 |
| 72.5° | 1277.1 | 1284.6 | 1460.1 | 1964.2 | 2931.4 | 3288.0 | 7739.2 | 20894.8 | 21903.0 | 19668.1 | 13984.6 |
| 75° | 745.0 | 758.0 | 957.8 | 1460.1 | 2544.9 | 3134.9 | 4380.2 | 14899.5 | 15543.7 | 13581.3 | 8711.9 |
| 77.5° | 390.2 | 395.8 | 535.9 | 963.4 | 1951.1 | 2910.8 | 2918.3 | 9518.5 | 9821.0 | 6600.2 | 3448.5 |
| 80° | 207.2 | 201.6 | 287.5 | 580.7 | 1342.4 | 2556.1 | 2367.5 | 5039.3 | 5239.1 | 1960.5 | 871.9 |
| 82.5° | 78.4 | 85.9 | 153.1 | 380.9 | 793.5 | 1835.4 | 2038.9 | 2227.5 | 2158.4 | 431.3 | 366.0 |
| 85° | 14.9 | 18.7 | 65.3 | 225.9 | 399.6 | 767.4 | 1503.0 | 1092.3 | 1012.0 | 162.4 | 211.0 |
| 87.5° | 1.9 | 3.7 | 18.7 | 54.1 | 57.9 | 259.5 | 444.4 | 302.5 | 261.4 | 59.7 | 87.8 |
| 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° | 6555.4 | 6555.4 | 6555.4 | 6555.4 | 6555.4 | 6555.4 | 6555.4 | 6555.4 | 6555.4 | 6555.4 | 6555.4 |
| 2.5° | 6559.1 | 6508.7 | 6340.7 | 6174.5 | 6004.6 | 5851.5 | 5747.0 | 5577.0 | 5534.1 | 5472.5 | 5437.0 |
| 5° | 6546.1 | 6428.4 | 6105.4 | 5752.6 | 5423.9 | 5069.2 | 4798.5 | 4537.1 | 4397.0 | 4326.1 | 4299.9 |
| 7.5° | 6508.7 | 6322.0 | 5817.9 | 5265.2 | 4738.7 | 4208.5 | 3747.3 | 3396.3 | 3170.3 | 3015.4 | 2910.8 |
| 10° | 6434.0 | 6176.4 | 5483.7 | 4723.8 | 3928.4 | 3228.2 | 2643.8 | 2199.5 | 1855.9 | 1747.6 | 1751.3 |
| 12.5° | 6357.5 | 6014.0 | 5110.3 | 4122.6 | 3136.7 | 2253.6 | 1633.7 | 1282.7 | 1118.4 | 1064.3 | 1053.0 |
| 15° | 6286.5 | 5859.0 | 4744.3 | 3540.0 | 2335.8 | 1460.1 | 1053.0 | 929.8 | 885.0 | 875.7 | 873.8 |
| 17.5° | 6249.2 | 5715.2 | 4354.1 | 2873.5 | 1630.0 | 991.4 | 843.9 | 810.3 | 797.3 | 787.9 | 784.2 |
| 20° | 6217.5 | 5590.1 | 3980.7 | 2249.9 | 1114.7 | 812.2 | 756.2 | 724.4 | 702.0 | 692.7 | 687.1 |
| 22.5° | 6195.1 | 5461.3 | 3594.2 | 1742.0 | 853.3 | 720.7 | 670.3 | 629.2 | 597.5 | 586.3 | 578.8 |
| 25° | 6161.5 | 5319.4 | 3204.0 | 1273.4 | 718.8 | 640.4 | 582.5 | 534.0 | 492.9 | 472.4 | 468.6 |
| 27.5° | 6112.9 | 5158.8 | 2776.4 | 942.9 | 642.3 | 569.5 | 498.5 | 438.8 | 397.7 | 375.3 | 377.2 |
| 30° | 6034.5 | 4990.8 | 2348.8 | 748.7 | 580.7 | 496.7 | 420.1 | 362.2 | 323.0 | 306.2 | 304.3 |
| 32.5° | 5941.1 | 4787.3 | 1956.7 | 642.3 | 524.7 | 431.3 | 351.0 | 300.6 | 270.7 | 257.7 | 255.8 |
| 35° | 5853.4 | 4581.9 | 1557.2 | 576.9 | 466.8 | 371.6 | 295.0 | 252.1 | 229.7 | 218.5 | 220.3 |
| 37.5° | 5804.8 | 4398.9 | 1213.6 | 524.7 | 420.1 | 319.3 | 253.9 | 216.6 | 196.0 | 186.7 | 184.8 |
| 40° | 5836.6 | 4249.5 | 965.3 | 478.0 | 367.8 | 274.5 | 218.5 | 186.7 | 166.2 | 153.1 | 153.1 |
| 42.5° | 5985.9 | 4184.2 | 778.6 | 433.2 | 319.3 | 237.1 | 190.4 | 160.6 | 138.2 | 125.1 | 127.0 |
| 45° | 6441.5 | 4253.3 | 651.6 | 392.1 | 274.5 | 205.4 | 164.3 | 132.6 | 112.0 | 102.7 | 100.8 |
| 47.5° | 7197.7 | 4512.8 | 563.9 | 349.1 | 235.3 | 175.5 | 138.2 | 110.2 | 89.6 | 82.2 | 80.3 |
| 50° | 8519.6 | 5048.7 | 498.5 | 306.2 | 199.8 | 149.4 | 113.9 | 87.8 | 71.0 | 63.5 | 63.5 |
| 52.5° | 10338.2 | 6217.5 | 451.8 | 257.7 | 168.0 | 127.0 | 93.4 | 71.0 | 56.0 | 50.4 | 48.5 |
| 55° | 12238.9 | 7449.8 | 427.6 | 216.6 | 140.0 | 104.6 | 74.7 | 56.0 | 42.9 | 37.3 | 35.5 |
| 57.5° | 14066.8 | 8416.9 | 399.6 | 175.5 | 112.0 | 80.3 | 57.9 | 42.9 | 29.9 | 26.1 | 24.3 |
| 60° | 15820.0 | 9199.2 | 339.8 | 140.0 | 87.8 | 57.9 | 42.9 | 29.9 | 20.5 | 16.8 | 16.8 |
| 62.5° | 17388.4 | 9654.8 | 267.0 | 112.0 | 67.2 | 41.1 | 28.0 | 22.4 | 14.9 | 11.2 | 11.2 |
| 65° | 17571.3 | 9062.9 | 201.6 | 85.9 | 48.5 | 26.1 | 16.8 | 16.8 | 11.2 | 7.5 | 7.5 |
| 66° | 17203.5 | 8560.7 | 177.4 | 78.4 | 42.9 | 22.4 | 14.9 | 13.1 | 9.3 | 5.6 | 5.6 |
| 67.5° | 16382.0 | 7703.7 | 153.1 | 67.2 | 35.5 | 16.8 | 11.2 | 11.2 | 7.5 | 3.7 | 3.7 |
| 70° | 14154.5 | 6292.1 | 121.4 | 50.4 | 26.1 | 13.1 | 7.5 | 7.5 | 5.6 | 3.7 | 3.7 |
| 72.5° | 10788.1 | 4697.6 | 99.0 | 37.3 | 18.7 | 9.3 | 5.6 | 5.6 | 5.6 | 3.7 | 3.7 |
| 75° | 6506.9 | 2529.9 | 76.6 | 28.0 | 16.8 | 7.5 | 3.7 | 5.6 | 7.5 | 5.6 | 3.7 |
| 77.5° | 2397.4 | 860.7 | 59.7 | 22.4 | 13.1 | 7.5 | 3.7 | 3.7 | 7.5 | 5.6 | 5.6 |
| 80° | 588.1 | 224.1 | 42.9 | 18.7 | 13.1 | 7.5 | 3.7 | 3.7 | 7.5 | 7.5 | 7.5 |
| 82.5° | 272.6 | 95.2 | 29.9 | 16.8 | 13.1 | 7.5 | 3.7 | 3.7 | 5.6 | 7.5 | 7.5 |
| 85° | 156.8 | 44.8 | 24.3 | 18.7 | 13.1 | 7.5 | 3.7 | 3.7 | 5.6 | 7.5 | 7.5 |
| 87.5° | 63.5 | 22.4 | 22.4 | 18.7 | 14.9 | 9.3 | 3.7 | 3.7 | 3.7 | 5.6 | 5.6 |
| 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)