

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: P528621

Luminaire Tested: **GALN-SA3D-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11273 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

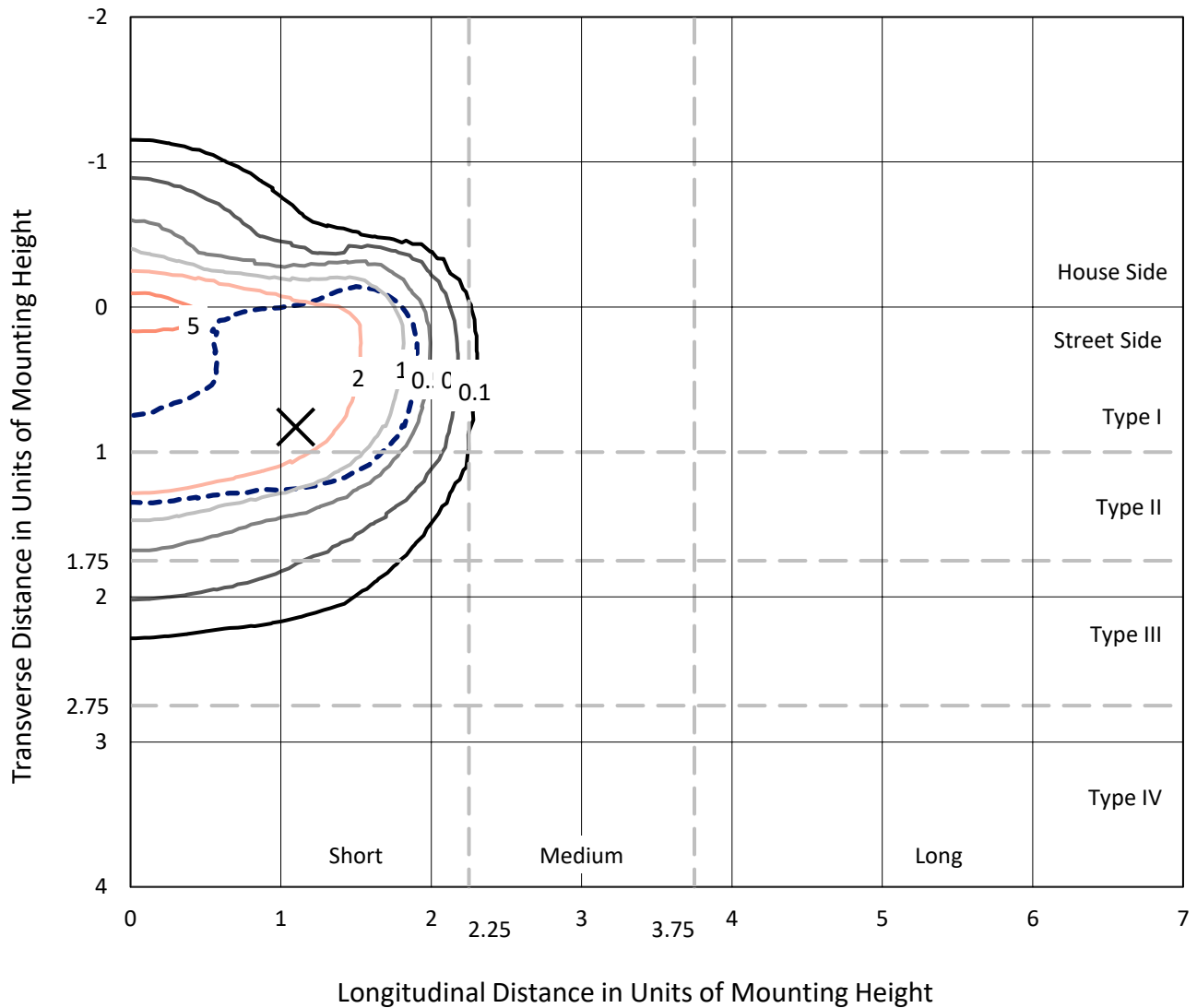
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

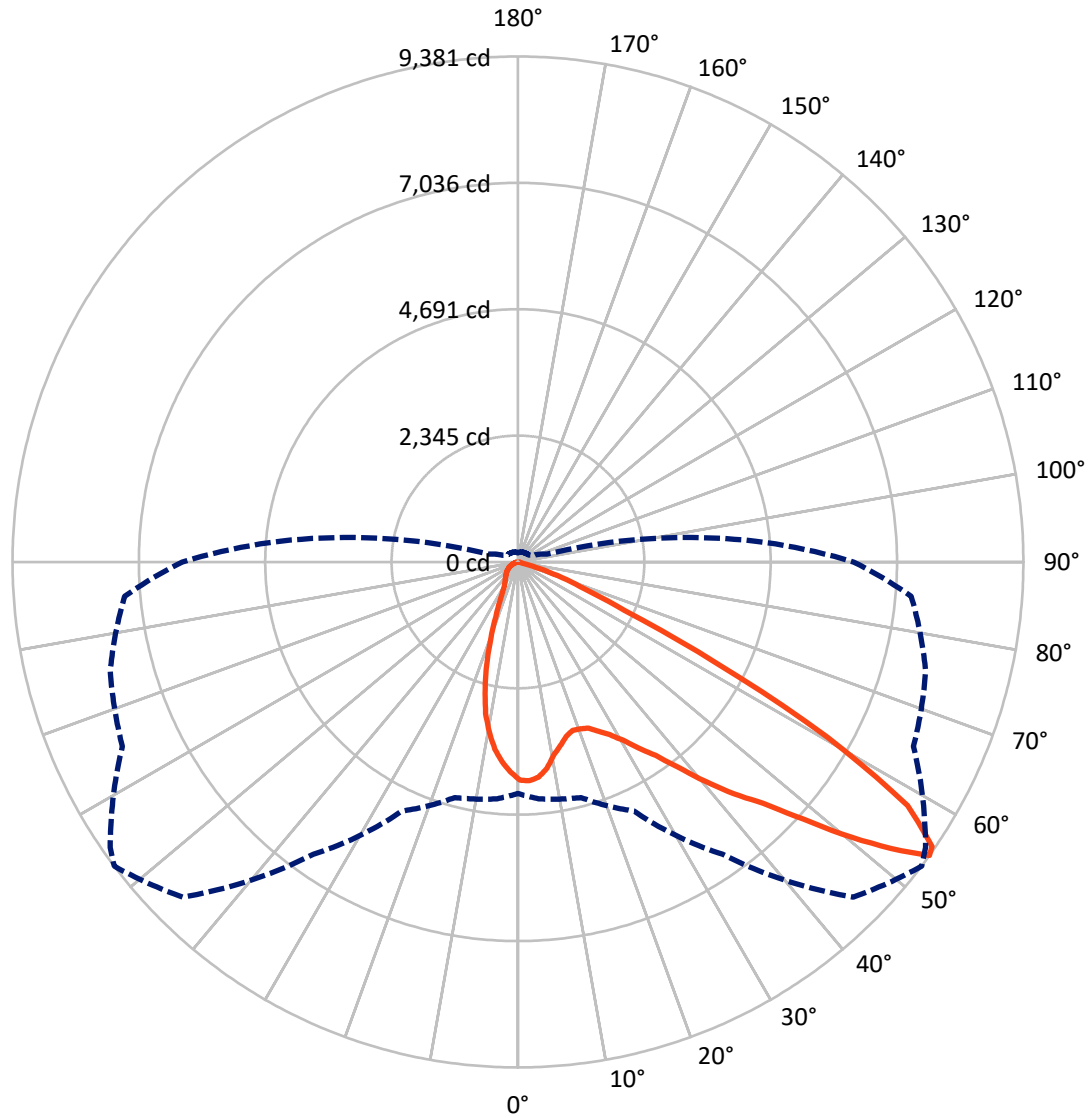
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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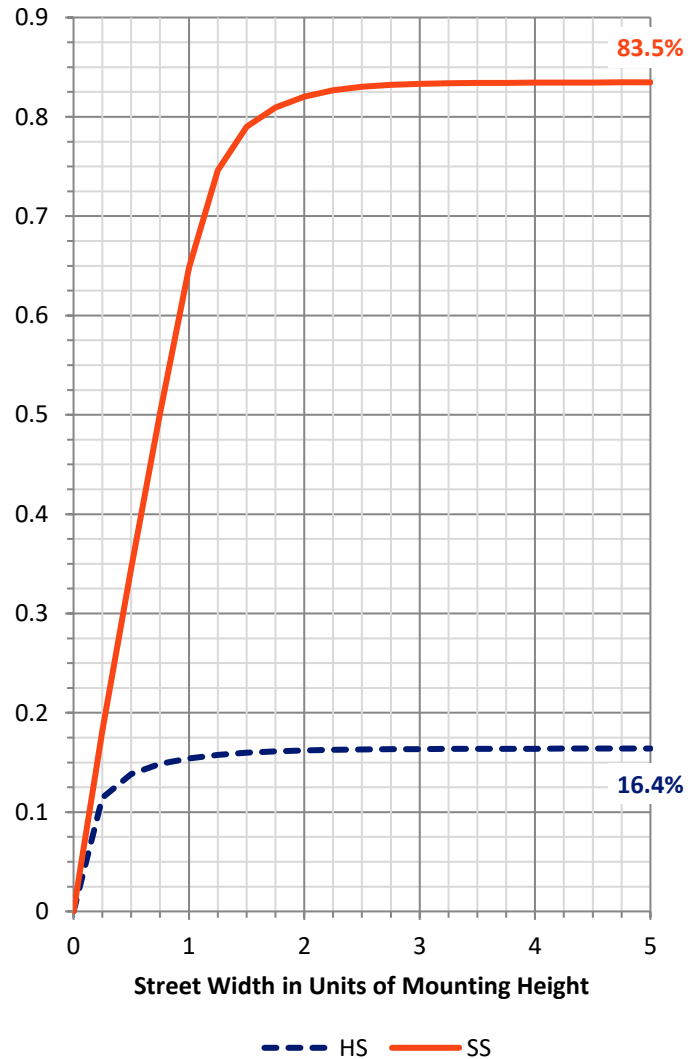
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1865.1 | 0.0 | 1865.1 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 9407.8 | 0.0 | 9407.8 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 11273.0 | 0.0 | 11273.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 347.4 | 3.1 |
| 10°-20° | 796.5 | 7.1 |
| 20°-30° | 1132.0 | 10.0 |
| 30°-40° | 1746.9 | 15.5 |
| 40°-50° | 2739.0 | 24.3 |
| 50°-60° | 3181.7 | 28.2 |
| 60°-70° | 1202.3 | 10.7 |
| 70°-80° | 114.3 | 1.0 |
| 80°-90° | 12.9 | 0.1 |
| 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° | 11273.0 | 100.0 |
| 0°-180° | 11273.0 | 100.0 |

Coefficient of Utilization

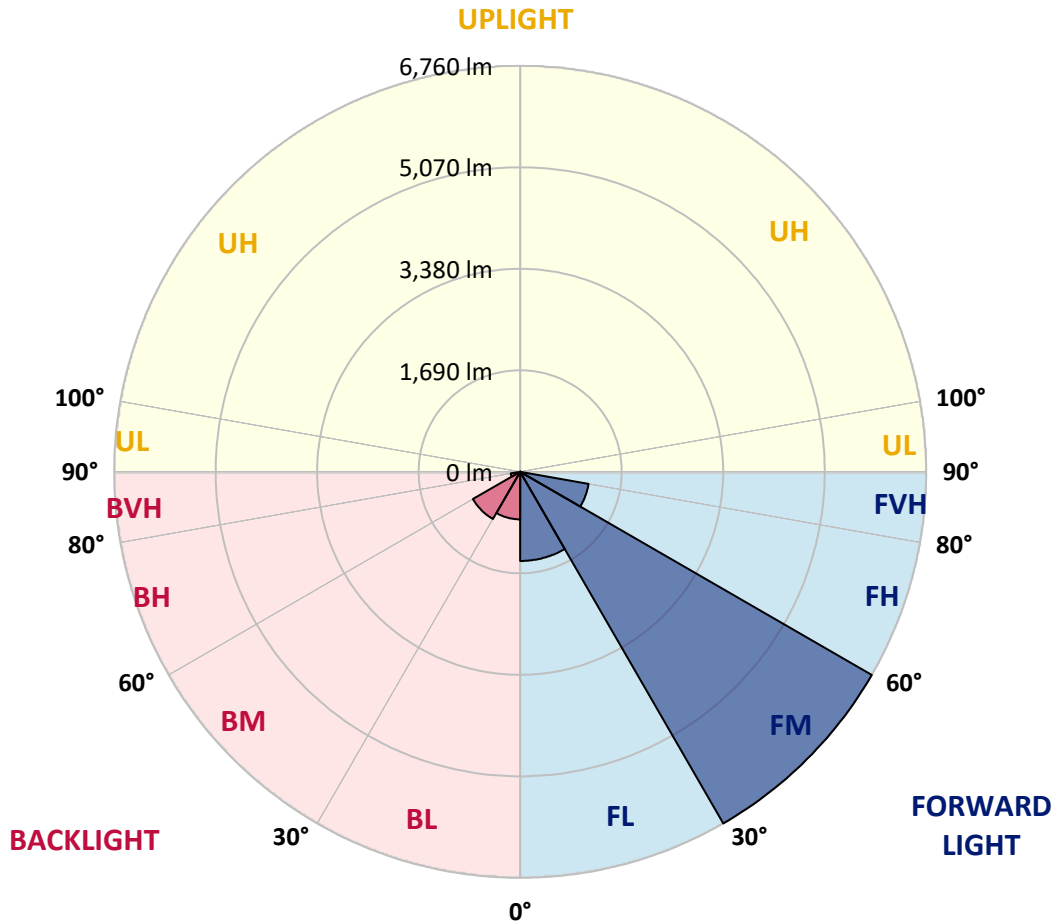


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1484.4 | 13.2 | | | |
| FM (30°-60°) | 6760.1 | 60.0 | | | |
| FH (60°-80°) | 1156.8 | 10.3 | | | G1/1800 |
| FVH (80°-90°) | 6.6 | 0.1 | | | G0/10 |
| BL (0°-30°) | 791.5 | 7.0 | B2/1000 | | |
| BM (30°-60°) | 907.6 | 8.1 | B1/1000 | | |
| BH (60°-80°) | 159.8 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.2 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4049.1 | 4049.1 | 4049.1 | 4049.1 | 4049.1 | 4049.1 | 4049.1 | 4049.1 | 4049.1 | 4049.1 | 4049.1 |
| 2.5° | 4028.1 | 3992.4 | 4028.1 | 4032.3 | 4057.5 | 4080.6 | 4065.9 | 4099.5 | 4080.6 | 4059.6 | 4053.3 |
| 5° | 3702.5 | 3750.9 | 3753.0 | 3828.6 | 3811.8 | 3950.4 | 4011.3 | 3994.5 | 4097.4 | 4091.1 | 4076.4 |
| 7.5° | 3410.6 | 3391.7 | 3416.9 | 3505.1 | 3616.4 | 3776.1 | 3864.3 | 3862.2 | 4009.2 | 4114.2 | 4103.7 |
| 10° | 3139.7 | 3137.6 | 3190.1 | 3259.4 | 3353.9 | 3521.9 | 3643.7 | 3704.6 | 3933.6 | 4093.2 | 4116.3 |
| 12.5° | 2957.0 | 2948.6 | 3005.3 | 3062.0 | 3211.1 | 3341.3 | 3496.7 | 3526.1 | 3788.7 | 4019.7 | 4057.5 |
| 15° | 2837.3 | 2856.2 | 2860.4 | 2969.6 | 3064.1 | 3236.3 | 3358.1 | 3419.0 | 3721.4 | 3960.9 | 4105.8 |
| 17.5° | 2816.3 | 2841.5 | 2843.6 | 2933.9 | 3034.7 | 3179.6 | 3286.7 | 3368.6 | 3664.7 | 3990.3 | 4107.9 |
| 20° | 2858.3 | 2843.6 | 2856.2 | 2912.9 | 3011.6 | 3150.2 | 3305.6 | 3332.9 | 3645.8 | 4005.0 | 4131.0 |
| 22.5° | 2978.0 | 2973.8 | 2942.3 | 2988.5 | 3057.8 | 3202.7 | 3349.7 | 3391.7 | 3700.4 | 4080.6 | 4149.9 |
| 25° | 3110.3 | 3133.4 | 3104.0 | 3097.7 | 3146.0 | 3288.8 | 3484.1 | 3538.7 | 3883.2 | 4217.1 | 4208.7 |
| 27.5° | 3358.1 | 3335.0 | 3335.0 | 3305.6 | 3293.0 | 3362.3 | 3629.0 | 3719.3 | 4086.9 | 4393.5 | 4275.9 |
| 30° | 3595.4 | 3620.6 | 3601.7 | 3612.2 | 3528.2 | 3521.9 | 3834.9 | 3946.2 | 4448.1 | 4662.3 | 4418.7 |
| 32.5° | 3971.4 | 3937.8 | 3969.3 | 3942.0 | 3830.7 | 3717.2 | 4114.2 | 4229.7 | 4884.9 | 4971.0 | 4632.9 |
| 35° | 4284.3 | 4269.6 | 4404.0 | 4399.8 | 4219.2 | 4107.9 | 4410.3 | 4582.5 | 5189.4 | 5340.7 | 4884.9 |
| 37.5° | 4729.5 | 4702.2 | 4855.5 | 4929.0 | 4767.3 | 4601.4 | 4834.5 | 5034.0 | 5473.0 | 5636.8 | 5143.2 |
| 40° | 5187.3 | 5256.7 | 5462.5 | 5584.3 | 5412.1 | 5191.5 | 5353.3 | 5414.2 | 5662.0 | 5830.0 | 5319.7 |
| 42.5° | 5767.0 | 5867.8 | 6077.8 | 6182.8 | 6168.1 | 5928.7 | 5880.4 | 5878.3 | 5798.5 | 5775.4 | 5449.9 |
| 45° | 6323.5 | 6285.7 | 6609.1 | 6838.1 | 7022.9 | 6953.6 | 6388.6 | 6325.6 | 6014.8 | 5857.3 | 5483.5 |
| 47.5° | 6567.1 | 6554.5 | 6775.1 | 7182.5 | 7812.5 | 7898.6 | 7127.9 | 6884.3 | 6380.2 | 6201.7 | 5666.2 |
| 50° | 6252.1 | 6317.2 | 6535.6 | 6987.2 | 7953.2 | 8610.6 | 8035.1 | 7707.5 | 6806.6 | 6621.7 | 6098.8 |
| 52.5° | 5223.1 | 5267.2 | 5475.1 | 6048.4 | 7474.4 | 9030.6 | 8904.6 | 8715.6 | 7589.9 | 7283.3 | 6852.8 |
| 54° | 4294.8 | 4412.4 | 4525.8 | 5101.2 | 6621.7 | 8797.5 | 9381.3 | 9236.4 | 8100.2 | 7833.5 | 7327.4 |
| 55° | 3740.4 | 3809.7 | 3891.6 | 4464.9 | 6031.6 | 8402.7 | 9326.7 | 9339.3 | 8442.6 | 8005.7 | 7646.6 |
| 57.5° | 2732.3 | 2780.6 | 2696.6 | 2950.7 | 4141.5 | 6823.4 | 8530.8 | 8871.0 | 8904.6 | 8264.1 | 7841.9 |
| 60° | 2087.5 | 2108.5 | 2014.0 | 2053.9 | 2574.8 | 4683.3 | 6598.6 | 7008.2 | 8033.0 | 7222.4 | 6642.7 |
| 62.5° | 1619.2 | 1623.4 | 1621.3 | 1690.6 | 1774.6 | 2755.4 | 4126.8 | 4490.1 | 5538.1 | 5128.5 | 4511.1 |
| 65° | 1192.9 | 1174.0 | 1207.6 | 1417.6 | 1514.2 | 1732.6 | 2173.6 | 2438.3 | 3009.5 | 2541.2 | 1816.6 |
| 67.5° | 772.9 | 779.2 | 812.8 | 1054.3 | 1297.9 | 1329.4 | 1337.8 | 1316.8 | 1318.9 | 726.6 | 455.7 |
| 70° | 464.1 | 474.6 | 464.1 | 596.4 | 928.3 | 953.5 | 871.6 | 850.6 | 663.6 | 172.2 | 170.1 |
| 72.5° | 275.1 | 260.4 | 233.1 | 256.2 | 386.4 | 462.0 | 415.8 | 413.7 | 260.4 | 100.8 | 100.8 |
| 75° | 115.5 | 105.0 | 86.1 | 77.7 | 102.9 | 98.7 | 98.7 | 88.2 | 69.3 | 67.2 | 63.0 |
| 77.5° | 23.1 | 23.1 | 16.8 | 18.9 | 25.2 | 29.4 | 35.7 | 35.7 | 42.0 | 42.0 | 39.9 |
| 80° | 0.0 | 2.1 | 6.3 | 12.6 | 18.9 | 27.3 | 31.5 | 31.5 | 35.7 | 35.7 | 29.4 |
| 82.5° | 0.0 | 2.1 | 6.3 | 12.6 | 16.8 | 25.2 | 31.5 | 31.5 | 35.7 | 37.8 | 31.5 |
| 85° | 0.0 | 2.1 | 6.3 | 10.5 | 16.8 | 21.0 | 21.0 | 18.9 | 14.7 | 12.6 | 8.4 |
| 87.5° | 0.0 | 0.0 | 2.1 | 4.2 | 2.1 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4049.1 | 4049.1 | 4049.1 | 4049.1 | 4049.1 | 4049.1 | 4049.1 | 4049.1 | 4049.1 | 4049.1 | 4049.1 |
| 2.5° | 4068.0 | 4065.9 | 4015.5 | 3933.6 | 3914.7 | 3845.4 | 3837.0 | 3795.0 | 3818.1 | 3740.4 | 3732.0 |
| 5° | 4034.4 | 4009.2 | 3948.3 | 3895.8 | 3742.5 | 3633.2 | 3547.1 | 3442.1 | 3381.2 | 3391.7 | 3351.8 |
| 7.5° | 4082.7 | 4017.6 | 3910.5 | 3727.7 | 3540.8 | 3349.7 | 3246.8 | 3032.6 | 2954.9 | 2839.4 | 2822.6 |
| 10° | 4032.3 | 3984.0 | 3818.1 | 3515.6 | 3257.3 | 2982.2 | 2740.7 | 2503.4 | 2322.8 | 2245.1 | 2228.2 |
| 12.5° | 4028.1 | 3944.1 | 3666.8 | 3330.8 | 2957.0 | 2562.2 | 2211.4 | 1915.3 | 1736.8 | 1636.0 | 1612.9 |
| 15° | 3963.0 | 3862.2 | 3496.7 | 3045.2 | 2528.6 | 2037.1 | 1654.9 | 1369.3 | 1232.8 | 1174.0 | 1190.8 |
| 17.5° | 3969.3 | 3818.1 | 3326.6 | 2742.8 | 2106.4 | 1495.3 | 1129.9 | 982.9 | 947.2 | 961.9 | 961.9 |
| 20° | 3963.0 | 3719.3 | 3120.8 | 2394.2 | 1612.9 | 1037.5 | 829.6 | 777.1 | 800.2 | 846.4 | 835.9 |
| 22.5° | 3929.4 | 3673.1 | 2931.8 | 2026.6 | 1186.6 | 768.7 | 665.7 | 667.8 | 703.5 | 760.3 | 772.9 |
| 25° | 3954.6 | 3570.2 | 2692.4 | 1654.9 | 865.3 | 613.2 | 577.5 | 592.2 | 630.0 | 672.0 | 680.4 |
| 27.5° | 3935.7 | 3496.7 | 2442.5 | 1285.3 | 632.1 | 527.1 | 525.0 | 541.8 | 558.6 | 590.1 | 590.1 |
| 30° | 3956.7 | 3429.5 | 2196.7 | 955.6 | 520.8 | 483.0 | 474.6 | 487.2 | 504.0 | 510.3 | 508.2 |
| 32.5° | 4034.4 | 3379.1 | 1913.2 | 714.0 | 459.9 | 441.0 | 441.0 | 441.0 | 438.9 | 447.3 | 449.4 |
| 35° | 4204.5 | 3387.5 | 1663.3 | 552.3 | 420.0 | 405.3 | 399.0 | 390.6 | 386.4 | 390.6 | 392.7 |
| 37.5° | 4389.3 | 3383.3 | 1405.0 | 470.4 | 390.6 | 378.0 | 363.3 | 350.7 | 348.6 | 352.8 | 346.5 |
| 40° | 4471.2 | 3423.2 | 1165.6 | 422.1 | 363.3 | 348.6 | 325.5 | 315.0 | 317.1 | 321.3 | 317.1 |
| 42.5° | 4582.5 | 3435.8 | 1010.2 | 384.3 | 338.1 | 315.0 | 300.3 | 287.7 | 285.6 | 291.9 | 289.8 |
| 45° | 4580.4 | 3364.4 | 846.4 | 363.3 | 315.0 | 289.8 | 270.9 | 260.4 | 260.4 | 264.6 | 266.7 |
| 47.5° | 4714.8 | 3353.9 | 726.6 | 344.4 | 298.2 | 273.0 | 249.9 | 241.5 | 239.4 | 239.4 | 235.2 |
| 50° | 5027.7 | 3500.9 | 634.2 | 323.4 | 277.2 | 254.1 | 235.2 | 224.7 | 216.3 | 212.1 | 210.0 |
| 52.5° | 5638.9 | 3958.8 | 562.8 | 298.2 | 254.1 | 235.2 | 218.4 | 210.0 | 199.5 | 189.0 | 186.9 |
| 54° | 6231.1 | 4431.3 | 558.6 | 277.2 | 235.2 | 222.6 | 207.9 | 203.7 | 191.1 | 176.4 | 172.2 |
| 55° | 6497.8 | 4706.4 | 573.3 | 260.4 | 222.6 | 214.2 | 201.6 | 197.4 | 184.8 | 168.0 | 165.9 |
| 57.5° | 6718.4 | 4813.5 | 564.9 | 216.3 | 201.6 | 199.5 | 189.0 | 182.7 | 168.0 | 144.9 | 140.7 |
| 60° | 5407.9 | 3639.5 | 405.3 | 191.1 | 184.8 | 180.6 | 172.2 | 168.0 | 149.1 | 123.9 | 121.8 |
| 62.5° | 3416.9 | 2093.8 | 258.3 | 168.0 | 161.7 | 155.4 | 144.9 | 140.7 | 123.9 | 98.7 | 92.4 |
| 65° | 1455.4 | 867.4 | 174.3 | 149.1 | 138.6 | 128.1 | 119.7 | 113.4 | 98.7 | 73.5 | 71.4 |
| 67.5° | 378.0 | 308.7 | 144.9 | 130.2 | 115.5 | 100.8 | 94.5 | 84.0 | 67.2 | 50.4 | 48.3 |
| 70° | 170.1 | 155.4 | 121.8 | 109.2 | 92.4 | 77.7 | 69.3 | 58.8 | 44.1 | 33.6 | 31.5 |
| 72.5° | 100.8 | 98.7 | 92.4 | 81.9 | 69.3 | 58.8 | 50.4 | 39.9 | 29.4 | 18.9 | 18.9 |
| 75° | 63.0 | 60.9 | 63.0 | 56.7 | 48.3 | 44.1 | 37.8 | 27.3 | 16.8 | 8.4 | 8.4 |
| 77.5° | 37.8 | 37.8 | 37.8 | 35.7 | 33.6 | 33.6 | 27.3 | 16.8 | 8.4 | 2.1 | 2.1 |
| 80° | 29.4 | 29.4 | 31.5 | 29.4 | 29.4 | 29.4 | 23.1 | 12.6 | 4.2 | 0.0 | 0.0 |
| 82.5° | 29.4 | 31.5 | 35.7 | 33.6 | 29.4 | 25.2 | 21.0 | 12.6 | 4.2 | 0.0 | 0.0 |
| 85° | 8.4 | 6.3 | 10.5 | 14.7 | 21.0 | 18.9 | 14.7 | 10.5 | 4.2 | 0.0 | 0.0 |
| 87.5° | 4.2 | 4.2 | 4.2 | 4.2 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 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 |

(END OF REPORT)