

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: P530731

Luminaire Tested: **GALN-SA6A-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-727-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12538 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

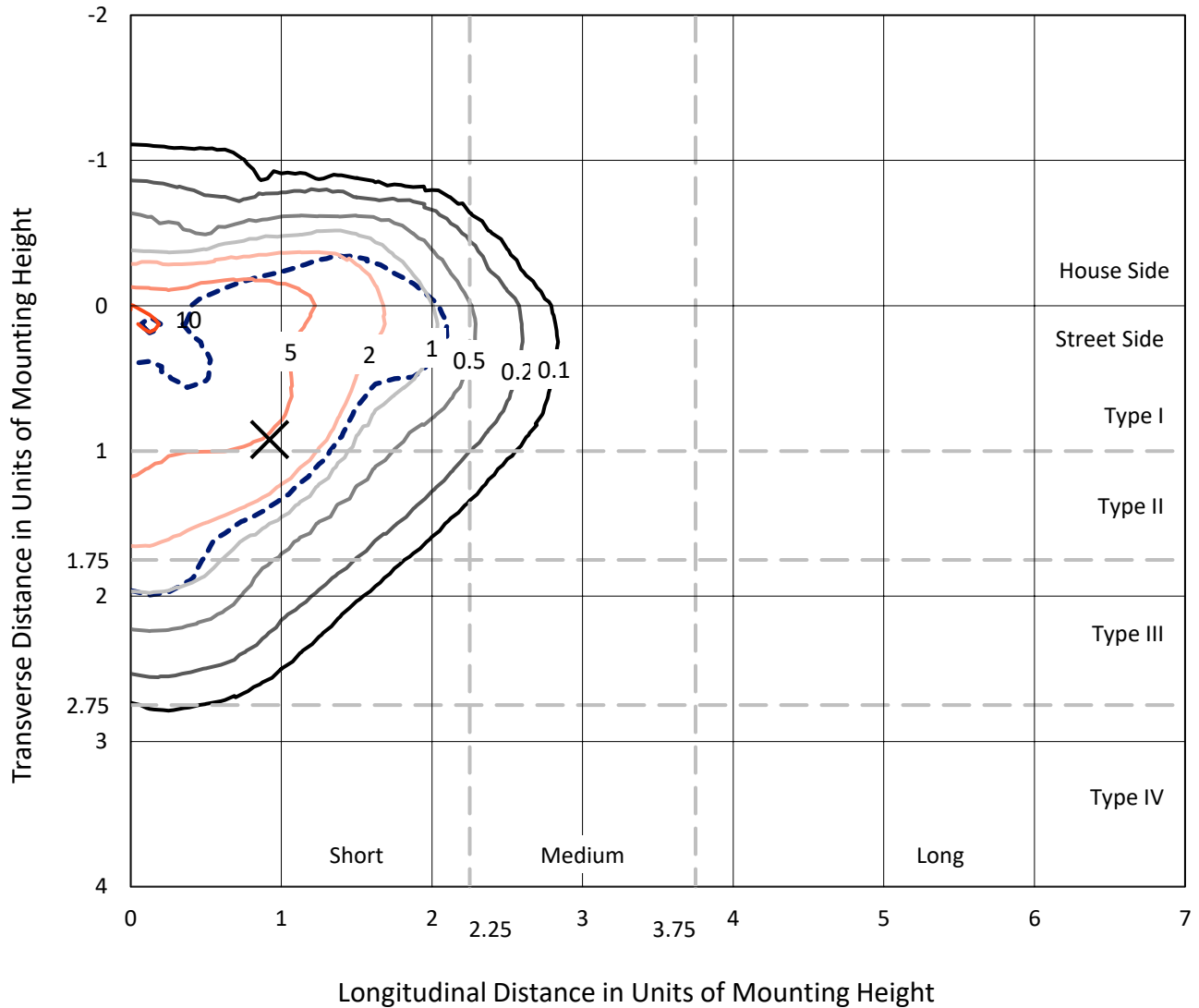
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

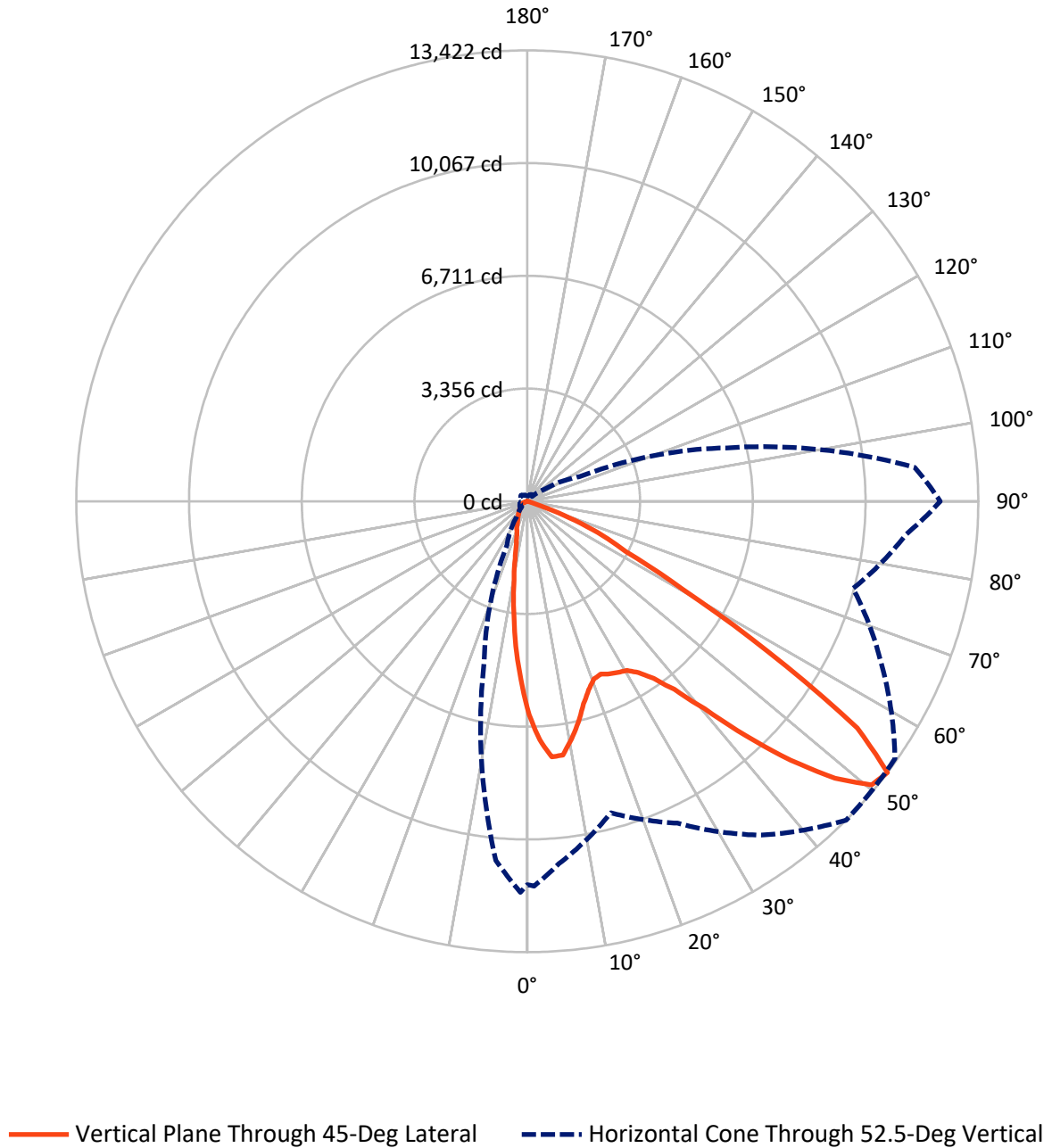
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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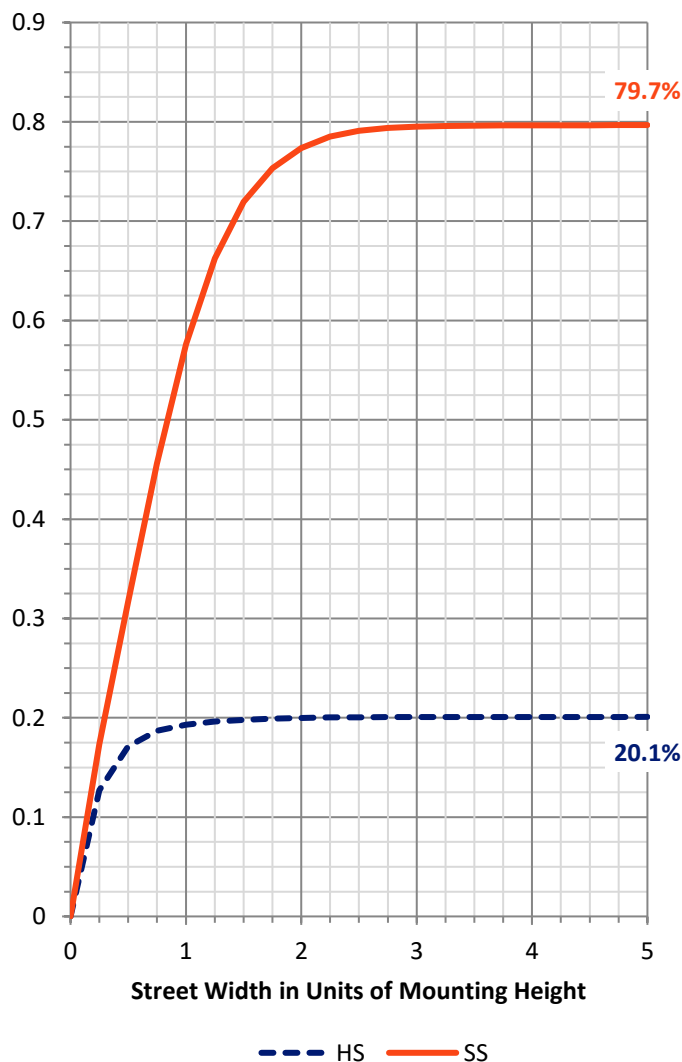
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2544.6 | 0.0 | 2544.6 |
| | % Fixture | 20.3 | 0.0 | 20.3 |
| Street Side | Lumens | 9993.4 | 0.0 | 9993.4 |
| | % Fixture | 79.7 | 0.0 | 79.7 |
| Total | Lumens | 12538.0 | 0.0 | 12538.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 463.6 | 3.7 |
| 10°-20° | 914.7 | 7.3 |
| 20°-30° | 1392.1 | 11.1 |
| 30°-40° | 2080.6 | 16.6 |
| 40°-50° | 2963.0 | 23.6 |
| 50°-60° | 3185.1 | 25.4 |
| 60°-70° | 1411.4 | 11.3 |
| 70°-80° | 114.2 | 0.9 |
| 80°-90° | 13.3 | 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° | 12538.0 | 100.0 |
| 0°-180° | 12538.0 | 100.0 |

Coefficient of Utilization



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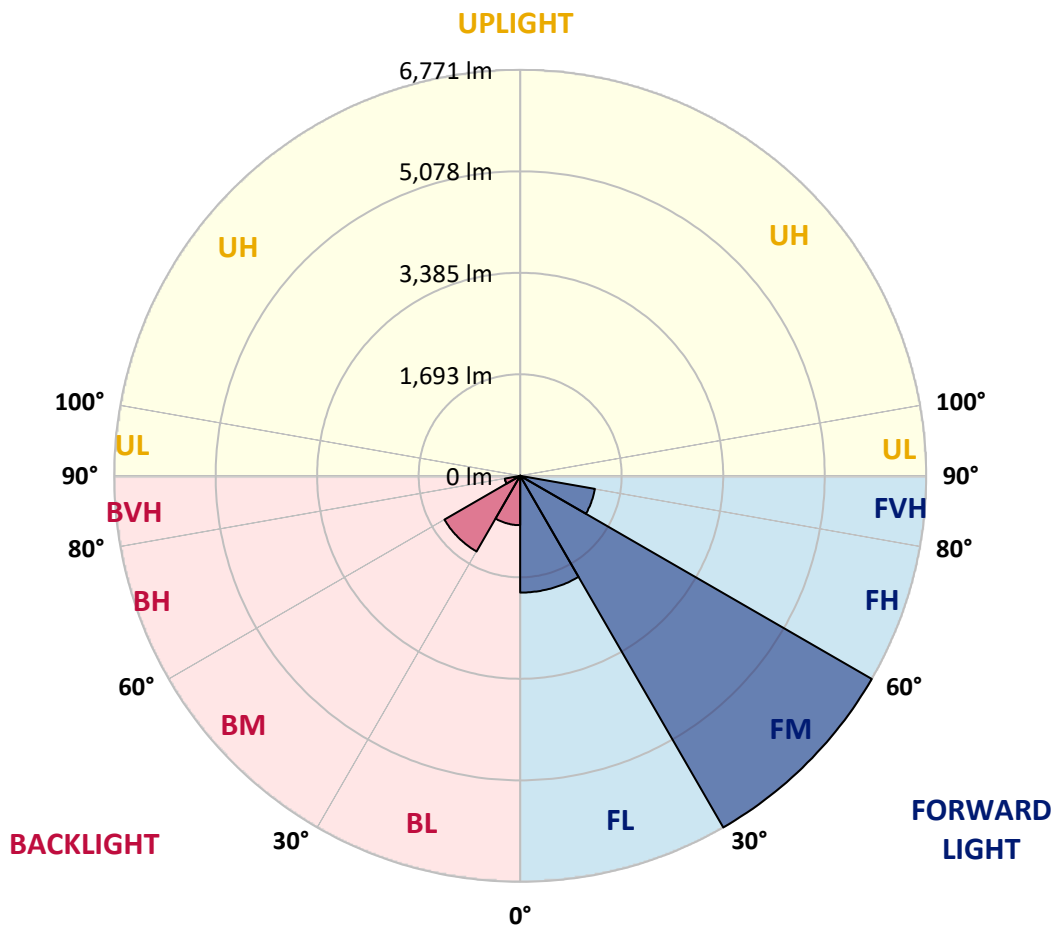
CATALOG NUMBER: GALN-SA6A-727-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1947.4 | 15.5 | | | |
| FM (30°-60°) | 6770.9 | 54.0 | | | |
| FH (60°-80°) | 1265.2 | 10.1 | | | G1/1800 |
| FVH (80°-90°) | 9.9 | 0.1 | | | G0/10 |
| BL (0°-30°) | 823.0 | 6.6 | B2/1000 | | |
| BM (30°-60°) | 1457.8 | 11.6 | B2/2500 | | |
| BH (60°-80°) | 260.4 | 2.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.5 | 0.0 | | | 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 III Short





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CATALOG NUMBER: GALN-SA6A-727-U-SLL-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 |
| 2.5° | 6727.2 | 6747.0 | 6855.5 | 6991.1 | 7062.6 | 7225.4 | 7111.9 | 7141.5 | 7079.9 | 6862.9 | 6692.7 |
| 5° | 6522.6 | 6520.1 | 6658.2 | 6993.6 | 7311.7 | 7634.7 | 7644.6 | 7472.0 | 7168.7 | 6835.8 | 6359.8 |
| 7.5° | 5906.1 | 6002.2 | 6145.3 | 6680.4 | 7269.8 | 7511.4 | 7627.3 | 7425.1 | 6959.1 | 6483.1 | 5967.7 |
| 10° | 5440.0 | 5489.3 | 5731.0 | 6377.1 | 6808.6 | 7131.7 | 7203.2 | 7087.3 | 6729.7 | 6135.4 | 5558.4 |
| 12.5° | 5171.2 | 5195.9 | 5479.5 | 6022.0 | 6478.2 | 6717.4 | 6751.9 | 6806.2 | 6549.7 | 5992.4 | 5299.4 |
| 15° | 5173.7 | 5193.4 | 5575.6 | 6029.4 | 6209.4 | 6145.3 | 6258.7 | 6256.2 | 6367.2 | 5965.3 | 5516.4 |
| 17.5° | 5546.0 | 5568.2 | 5913.5 | 6137.9 | 6059.0 | 5908.5 | 5901.1 | 6014.6 | 6248.8 | 6303.1 | 5844.4 |
| 20° | 6187.2 | 6239.0 | 6493.0 | 6480.6 | 6036.8 | 5733.5 | 5649.6 | 5735.9 | 6280.9 | 6589.2 | 6505.3 |
| 22.5° | 7050.3 | 7121.8 | 7299.4 | 6959.1 | 6137.9 | 5615.1 | 5588.0 | 5755.6 | 6493.0 | 7227.8 | 7255.0 |
| 25° | 8051.5 | 8172.3 | 8258.6 | 7822.2 | 6497.9 | 5819.8 | 5691.5 | 5980.1 | 6779.0 | 7920.8 | 8209.3 |
| 27.5° | 8714.8 | 8840.6 | 8820.9 | 8197.0 | 6739.6 | 5874.0 | 5765.5 | 6034.3 | 7028.1 | 8086.0 | 8707.4 |
| 30° | 9232.7 | 9309.2 | 9447.2 | 8399.2 | 6981.2 | 6026.9 | 5842.0 | 6263.6 | 7109.5 | 8372.1 | 9309.2 |
| 32.5° | 9836.9 | 9888.7 | 9898.5 | 8756.8 | 7353.6 | 6219.3 | 6078.7 | 6549.7 | 7469.5 | 8645.8 | 9841.8 |
| 35° | 10446.0 | 10522.4 | 10362.1 | 9198.2 | 7583.0 | 6576.8 | 6473.3 | 7045.4 | 7758.0 | 8929.4 | 10428.7 |
| 37.5° | 11106.9 | 11146.3 | 10776.4 | 9380.7 | 7910.9 | 7158.8 | 7102.1 | 7580.5 | 8258.6 | 9442.3 | 11079.7 |
| 40° | 11661.7 | 11698.7 | 11217.8 | 9605.1 | 8256.2 | 7972.6 | 8118.1 | 8601.4 | 8939.3 | 9775.2 | 11405.3 |
| 42.5° | 11970.0 | 12056.3 | 11365.8 | 9481.8 | 8949.1 | 8894.9 | 9541.0 | 9711.1 | 9728.4 | 9868.9 | 11696.2 |
| 45° | 12053.8 | 12014.4 | 11121.7 | 9582.9 | 9555.8 | 10411.5 | 10998.4 | 11222.8 | 10512.6 | 10041.6 | 11770.2 |
| 47.5° | 11666.6 | 11718.4 | 10761.6 | 9494.1 | 10352.3 | 11560.6 | 12320.1 | 12736.9 | 11097.0 | 9891.1 | 11587.7 |
| 50° | 11353.5 | 11286.9 | 10645.7 | 9430.0 | 10566.8 | 12103.1 | 13274.5 | 13368.2 | 11634.6 | 10076.1 | 11388.0 |
| 52.5° | 11415.1 | 11457.0 | 10830.7 | 9600.1 | 10571.7 | 12135.2 | 13422.4 | 13358.3 | 11651.9 | 10034.2 | 11316.5 |
| 55° | 11545.8 | 11360.9 | 10751.8 | 9225.3 | 9864.0 | 11240.0 | 11913.2 | 11814.6 | 10754.2 | 9587.8 | 11141.4 |
| 57.5° | 9962.6 | 10248.7 | 9886.2 | 8236.4 | 8095.9 | 8468.2 | 8455.9 | 8759.2 | 8021.9 | 8251.2 | 10142.7 |
| 60° | 8086.0 | 8135.3 | 8271.0 | 7045.4 | 5602.8 | 5474.5 | 5297.0 | 5104.6 | 5398.1 | 7055.2 | 9225.3 |
| 62.5° | 7111.9 | 7052.8 | 7536.1 | 6409.1 | 3955.5 | 3311.8 | 3282.2 | 3400.6 | 4165.1 | 6729.7 | 8653.2 |
| 65° | 5168.7 | 5242.7 | 5592.9 | 4973.9 | 2969.1 | 2527.7 | 2483.3 | 2833.4 | 3371.0 | 5393.1 | 6603.9 |
| 67.5° | 3156.5 | 3299.5 | 3331.6 | 3067.7 | 2014.7 | 1600.4 | 1536.3 | 1854.4 | 2433.9 | 3489.4 | 3871.6 |
| 70° | 1457.4 | 1630.0 | 1792.8 | 1674.4 | 1166.4 | 658.4 | 621.4 | 779.3 | 1228.1 | 2007.3 | 2054.2 |
| 72.5° | 441.4 | 443.9 | 621.4 | 648.6 | 377.3 | 148.0 | 130.7 | 172.6 | 416.8 | 663.4 | 697.9 |
| 75° | 32.1 | 34.5 | 83.8 | 96.2 | 71.5 | 37.0 | 39.5 | 46.9 | 88.8 | 148.0 | 111.0 |
| 77.5° | 2.5 | 2.5 | 2.5 | 12.3 | 22.2 | 24.7 | 32.1 | 37.0 | 46.9 | 54.3 | 49.3 |
| 80° | 2.5 | 0.0 | 2.5 | 9.9 | 17.3 | 24.7 | 29.6 | 34.5 | 37.0 | 41.9 | 37.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 7.4 | 17.3 | 24.7 | 27.1 | 37.0 | 41.9 | 49.3 | 41.9 |
| 85° | 0.0 | 0.0 | 0.0 | 7.4 | 17.3 | 27.1 | 24.7 | 12.3 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 |
| 2.5° | 6722.3 | 6626.1 | 6406.7 | 6295.7 | 6034.3 | 5997.3 | 5740.8 | 5698.9 | 5612.6 | 5565.8 | 5452.3 |
| 5° | 6150.2 | 6034.3 | 5676.7 | 5375.9 | 5025.7 | 4781.6 | 4594.2 | 4424.0 | 4325.4 | 4234.1 | 4276.0 |
| 7.5° | 5684.1 | 5346.3 | 4949.3 | 4446.2 | 4041.8 | 3780.4 | 3494.3 | 3260.1 | 3122.0 | 3028.2 | 3050.4 |
| 10° | 5195.9 | 4976.4 | 4424.0 | 3859.3 | 3371.0 | 3186.1 | 2961.7 | 2781.6 | 2586.8 | 2419.1 | 2340.2 |
| 12.5° | 5043.0 | 4717.5 | 4024.5 | 3449.9 | 3080.0 | 2900.0 | 2643.6 | 2436.4 | 2187.3 | 1982.7 | 1911.2 |
| 15° | 5070.1 | 4756.9 | 3916.0 | 3302.0 | 2865.5 | 2554.8 | 2249.0 | 1992.5 | 1718.8 | 1575.8 | 1501.8 |
| 17.5° | 5511.5 | 4969.0 | 3987.5 | 3146.6 | 2567.1 | 2135.6 | 1758.3 | 1432.7 | 1228.1 | 1080.1 | 1048.1 |
| 20° | 6054.0 | 5427.7 | 4140.4 | 3033.2 | 2323.0 | 1699.1 | 1284.8 | 1003.7 | 833.5 | 808.8 | 801.5 |
| 22.5° | 6848.1 | 6177.3 | 4468.4 | 2956.7 | 2024.6 | 1324.2 | 880.4 | 729.9 | 683.1 | 678.2 | 680.6 |
| 25° | 7957.8 | 7116.9 | 4826.0 | 2892.6 | 1800.2 | 1020.9 | 720.1 | 619.0 | 604.2 | 596.8 | 609.1 |
| 27.5° | 8438.7 | 7684.1 | 5015.8 | 2754.5 | 1595.5 | 919.8 | 710.2 | 614.0 | 572.1 | 559.8 | 567.2 |
| 30° | 9033.0 | 8061.4 | 5314.2 | 2517.8 | 1294.7 | 757.1 | 663.4 | 668.3 | 648.6 | 586.9 | 567.2 |
| 32.5° | 9822.1 | 8532.4 | 5464.7 | 2350.1 | 1156.6 | 626.4 | 485.8 | 446.3 | 498.1 | 508.0 | 525.3 |
| 35° | 10327.6 | 9010.8 | 5541.1 | 2251.5 | 1085.0 | 535.1 | 411.8 | 374.8 | 362.5 | 365.0 | 374.8 |
| 37.5° | 11267.2 | 9656.9 | 5637.3 | 2147.9 | 1030.8 | 466.1 | 372.4 | 337.8 | 320.6 | 320.6 | 330.4 |
| 40° | 11829.4 | 10169.8 | 5768.0 | 2091.2 | 976.5 | 424.2 | 337.8 | 308.3 | 293.5 | 293.5 | 298.4 |
| 42.5° | 11970.0 | 10423.8 | 5723.6 | 2071.4 | 914.9 | 414.3 | 308.3 | 286.1 | 268.8 | 266.3 | 263.9 |
| 45° | 12221.5 | 10810.9 | 5731.0 | 2049.2 | 850.8 | 377.3 | 291.0 | 266.3 | 241.7 | 239.2 | 236.7 |
| 47.5° | 12497.7 | 11089.6 | 5745.8 | 1962.9 | 789.1 | 315.6 | 303.3 | 246.6 | 217.0 | 212.1 | 212.1 |
| 50° | 12261.0 | 11311.5 | 5874.0 | 1876.6 | 710.2 | 256.5 | 298.4 | 231.8 | 192.3 | 185.0 | 187.4 |
| 52.5° | 12290.5 | 11572.9 | 6145.3 | 1755.8 | 611.6 | 204.7 | 241.7 | 219.5 | 175.1 | 162.8 | 165.2 |
| 55° | 11817.1 | 11296.7 | 6182.3 | 1627.6 | 478.4 | 157.8 | 185.0 | 192.3 | 148.0 | 143.0 | 143.0 |
| 57.5° | 10172.3 | 9565.6 | 5454.8 | 1319.3 | 315.6 | 130.7 | 133.2 | 167.7 | 128.2 | 123.3 | 125.8 |
| 60° | 8705.0 | 7679.1 | 4389.5 | 870.5 | 197.3 | 103.6 | 96.2 | 170.2 | 113.4 | 111.0 | 118.4 |
| 62.5° | 7935.6 | 6310.5 | 3329.1 | 540.1 | 135.6 | 78.9 | 66.6 | 138.1 | 98.6 | 98.6 | 108.5 |
| 65° | 5733.5 | 4239.1 | 1935.8 | 283.6 | 96.2 | 61.7 | 49.3 | 78.9 | 81.4 | 83.8 | 88.8 |
| 67.5° | 3551.0 | 2140.5 | 816.2 | 138.1 | 64.1 | 41.9 | 32.1 | 49.3 | 54.3 | 54.3 | 59.2 |
| 70° | 1753.3 | 853.2 | 271.3 | 78.9 | 49.3 | 34.5 | 22.2 | 27.1 | 27.1 | 24.7 | 27.1 |
| 72.5° | 542.5 | 256.5 | 69.0 | 49.3 | 34.5 | 22.2 | 12.3 | 9.9 | 4.9 | 0.0 | 2.5 |
| 75° | 61.7 | 49.3 | 44.4 | 34.5 | 22.2 | 9.9 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 37.0 | 41.9 | 41.9 | 34.5 | 22.2 | 7.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 29.6 | 32.1 | 34.5 | 32.1 | 19.7 | 9.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 37.0 | 41.9 | 46.9 | 41.9 | 27.1 | 12.3 | 4.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.4 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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° | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 |
| 2.5° | 5405.5 | 5351.2 | 5427.7 | 5314.2 | 5311.8 | 5314.2 | 5282.2 | 5252.6 | 5299.4 | 5425.2 | 5437.5 |
| 5° | 4125.6 | 4241.5 | 4278.5 | 4399.3 | 4332.8 | 4234.1 | 4253.9 | 4187.3 | 4350.0 | 4421.5 | 4364.8 |
| 7.5° | 3003.6 | 2996.2 | 3245.3 | 3260.1 | 3292.1 | 3294.6 | 3289.6 | 3158.9 | 3025.8 | 3055.4 | 3144.2 |
| 10° | 2330.4 | 2204.6 | 2325.4 | 2313.1 | 2392.0 | 2369.8 | 2401.9 | 2261.3 | 2308.2 | 2308.2 | 2364.9 |
| 12.5° | 1898.8 | 1765.7 | 1743.5 | 1711.4 | 1743.5 | 1755.8 | 1768.1 | 1741.0 | 1819.9 | 1856.9 | 1896.4 |
| 15° | 1450.0 | 1376.0 | 1356.3 | 1294.7 | 1304.5 | 1339.0 | 1368.6 | 1381.0 | 1356.3 | 1413.0 | 1418.0 |
| 17.5° | 1053.0 | 1050.5 | 1062.8 | 1060.4 | 1050.5 | 1043.1 | 1040.7 | 1008.6 | 998.7 | 1003.7 | 1023.4 |
| 20° | 799.0 | 818.7 | 860.6 | 902.6 | 924.8 | 897.6 | 860.6 | 806.4 | 784.2 | 789.1 | 791.6 |
| 22.5° | 683.1 | 712.7 | 769.4 | 816.2 | 838.4 | 789.1 | 722.5 | 675.7 | 665.8 | 663.4 | 660.9 |
| 25° | 619.0 | 653.5 | 695.4 | 710.2 | 707.7 | 678.2 | 628.8 | 609.1 | 604.2 | 599.2 | 577.0 |
| 27.5° | 584.4 | 596.8 | 604.2 | 621.4 | 628.8 | 609.1 | 596.8 | 567.2 | 562.2 | 562.2 | 547.5 |
| 30° | 564.7 | 557.3 | 567.2 | 554.9 | 564.7 | 549.9 | 552.4 | 552.4 | 540.1 | 545.0 | 545.0 |
| 32.5° | 525.3 | 527.7 | 527.7 | 503.1 | 510.5 | 493.2 | 510.5 | 525.3 | 527.7 | 530.2 | 549.9 |
| 35° | 384.7 | 429.1 | 451.3 | 451.3 | 458.7 | 446.3 | 443.9 | 426.6 | 404.4 | 382.2 | 372.4 |
| 37.5° | 337.8 | 355.1 | 384.7 | 402.0 | 414.3 | 404.4 | 382.2 | 355.1 | 342.8 | 332.9 | 323.0 |
| 40° | 300.9 | 315.6 | 335.4 | 355.1 | 379.8 | 367.4 | 332.9 | 320.6 | 305.8 | 305.8 | 295.9 |
| 42.5° | 271.3 | 278.7 | 291.0 | 320.6 | 347.7 | 323.0 | 298.4 | 288.5 | 281.1 | 278.7 | 276.2 |
| 45° | 244.1 | 246.6 | 258.9 | 283.6 | 315.6 | 291.0 | 266.3 | 254.0 | 256.5 | 258.9 | 256.5 |
| 47.5° | 219.5 | 224.4 | 231.8 | 261.4 | 281.1 | 268.8 | 241.7 | 234.3 | 234.3 | 234.3 | 236.7 |
| 50° | 189.9 | 202.2 | 217.0 | 241.7 | 256.5 | 249.1 | 226.9 | 217.0 | 212.1 | 212.1 | 214.5 |
| 52.5° | 170.2 | 180.0 | 199.7 | 229.3 | 249.1 | 236.7 | 214.5 | 199.7 | 189.9 | 187.4 | 192.3 |
| 55° | 148.0 | 165.2 | 197.3 | 219.5 | 246.6 | 234.3 | 209.6 | 192.3 | 175.1 | 172.6 | 172.6 |
| 57.5° | 133.2 | 160.3 | 189.9 | 217.0 | 239.2 | 229.3 | 209.6 | 187.4 | 165.2 | 162.8 | 162.8 |
| 60° | 125.8 | 155.4 | 185.0 | 209.6 | 239.2 | 224.4 | 207.1 | 182.5 | 157.8 | 157.8 | 155.4 |
| 62.5° | 118.4 | 145.5 | 175.1 | 199.7 | 229.3 | 217.0 | 199.7 | 175.1 | 150.4 | 150.4 | 145.5 |
| 65° | 98.6 | 125.8 | 145.5 | 167.7 | 199.7 | 187.4 | 170.2 | 152.9 | 133.2 | 128.2 | 130.7 |
| 67.5° | 69.0 | 86.3 | 106.0 | 128.2 | 148.0 | 143.0 | 135.6 | 123.3 | 106.0 | 103.6 | 101.1 |
| 70° | 34.5 | 46.9 | 64.1 | 86.3 | 103.6 | 98.6 | 93.7 | 83.8 | 74.0 | 71.5 | 71.5 |
| 72.5° | 4.9 | 14.8 | 27.1 | 39.5 | 54.3 | 56.7 | 54.3 | 51.8 | 49.3 | 46.9 | 49.3 |
| 75° | 0.0 | 0.0 | 0.0 | 9.9 | 22.2 | 27.1 | 32.1 | 37.0 | 37.0 | 32.1 | 39.5 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 12.3 | 24.7 | 32.1 | 39.5 | 34.5 | 46.9 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 14.8 | 24.7 | 34.5 | 39.5 | 34.5 | 49.3 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 17.3 | 24.7 | 32.1 | 37.0 | 34.5 | 44.4 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 7.4 | 14.8 | 9.9 | 4.9 | 2.5 | 2.5 | 7.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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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|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 | 6357.3 |
| 2.5° | 5506.6 | 5681.7 | 5869.1 | 5940.6 | 6162.5 | 6330.2 | 6443.7 | 6687.8 | 6724.8 | 6727.2 |
| 5° | 4424.0 | 4512.8 | 4833.4 | 4983.8 | 5314.2 | 5570.7 | 5844.4 | 6239.0 | 6502.8 | 6522.6 |
| 7.5° | 3144.2 | 3390.8 | 3526.4 | 3918.5 | 4325.4 | 4727.3 | 5134.2 | 5592.9 | 5898.7 | 5906.1 |
| 10° | 2530.1 | 2690.4 | 2932.1 | 3225.5 | 3568.3 | 3977.7 | 4520.2 | 5052.8 | 5363.6 | 5440.0 |
| 12.5° | 2036.9 | 2318.0 | 2594.2 | 2897.6 | 3158.9 | 3467.2 | 4051.6 | 4761.8 | 5018.3 | 5171.2 |
| 15° | 1568.4 | 1824.8 | 2150.4 | 2505.5 | 2801.4 | 3213.2 | 3879.0 | 4690.3 | 5121.9 | 5173.7 |
| 17.5° | 1156.6 | 1385.9 | 1686.7 | 2022.1 | 2466.0 | 3050.4 | 3908.6 | 5052.8 | 5459.7 | 5546.0 |
| 20° | 831.0 | 964.2 | 1200.9 | 1590.6 | 2155.3 | 2860.6 | 3938.2 | 5420.3 | 6039.2 | 6187.2 |
| 22.5° | 658.4 | 712.7 | 868.0 | 1213.3 | 1807.6 | 2660.8 | 4147.8 | 6123.1 | 6835.8 | 7050.3 |
| 25° | 572.1 | 601.7 | 675.7 | 956.8 | 1588.1 | 2641.1 | 4483.2 | 6966.5 | 7896.1 | 8051.5 |
| 27.5° | 552.4 | 557.3 | 621.4 | 877.9 | 1469.7 | 2510.4 | 4611.4 | 7565.7 | 8557.0 | 8714.8 |
| 30° | 582.0 | 660.9 | 665.8 | 742.3 | 1250.3 | 2251.5 | 4678.0 | 8145.2 | 9116.8 | 9232.7 |
| 32.5° | 503.1 | 478.4 | 495.7 | 574.6 | 1099.8 | 2101.0 | 4803.8 | 8650.7 | 9755.5 | 9836.9 |
| 35° | 350.2 | 367.4 | 406.9 | 498.1 | 961.7 | 1943.2 | 4835.8 | 9208.0 | 10362.1 | 10446.0 |
| 37.5° | 323.0 | 332.9 | 365.0 | 424.2 | 845.8 | 1854.4 | 4791.4 | 9614.9 | 10991.0 | 11106.9 |
| 40° | 300.9 | 313.2 | 330.4 | 384.7 | 759.5 | 1755.8 | 4729.8 | 9982.4 | 11375.7 | 11661.7 |
| 42.5° | 283.6 | 293.5 | 308.3 | 367.4 | 685.5 | 1657.2 | 4643.5 | 10500.2 | 11720.9 | 11970.0 |
| 45° | 263.9 | 278.7 | 295.9 | 357.6 | 643.6 | 1590.6 | 4579.4 | 10468.2 | 11920.6 | 12053.8 |
| 47.5° | 244.1 | 268.8 | 288.5 | 332.9 | 631.3 | 1558.5 | 4606.5 | 10347.3 | 11757.9 | 11666.6 |
| 50° | 224.4 | 256.5 | 291.0 | 276.2 | 601.7 | 1494.4 | 4638.5 | 10512.6 | 11370.7 | 11353.5 |
| 52.5° | 207.1 | 244.1 | 271.3 | 226.9 | 535.1 | 1432.7 | 4949.3 | 10729.6 | 11644.5 | 11415.1 |
| 55° | 182.5 | 219.5 | 217.0 | 182.5 | 434.0 | 1385.9 | 5193.4 | 10734.5 | 11459.5 | 11545.8 |
| 57.5° | 165.2 | 194.8 | 170.2 | 152.9 | 320.6 | 1159.0 | 4796.4 | 9000.9 | 9809.7 | 9962.6 |
| 60° | 152.9 | 189.9 | 128.2 | 120.8 | 209.6 | 836.0 | 4187.3 | 6971.4 | 7797.5 | 8086.0 |
| 62.5° | 140.6 | 180.0 | 101.1 | 98.6 | 145.5 | 594.3 | 3442.5 | 5834.6 | 6719.9 | 7111.9 |
| 65° | 123.3 | 128.2 | 81.4 | 76.4 | 103.6 | 320.6 | 2096.1 | 4017.1 | 5023.2 | 5168.7 |
| 67.5° | 101.1 | 98.6 | 66.6 | 61.7 | 69.0 | 155.4 | 924.8 | 2012.3 | 2912.3 | 3156.5 |
| 70° | 81.4 | 81.4 | 56.7 | 49.3 | 49.3 | 71.5 | 241.7 | 801.5 | 1316.8 | 1457.4 |
| 72.5° | 59.2 | 61.7 | 44.4 | 39.5 | 37.0 | 34.5 | 39.5 | 160.3 | 345.2 | 441.4 |
| 75° | 51.8 | 54.3 | 44.4 | 34.5 | 27.1 | 22.2 | 17.3 | 14.8 | 19.7 | 32.1 |
| 77.5° | 56.7 | 56.7 | 46.9 | 32.1 | 24.7 | 17.3 | 9.9 | 4.9 | 4.9 | 2.5 |
| 80° | 71.5 | 74.0 | 61.7 | 41.9 | 29.6 | 19.7 | 12.3 | 4.9 | 2.5 | 2.5 |
| 82.5° | 76.4 | 83.8 | 69.0 | 51.8 | 37.0 | 22.2 | 12.3 | 2.5 | 0.0 | 0.0 |
| 85° | 19.7 | 32.1 | 54.3 | 46.9 | 37.0 | 22.2 | 12.3 | 2.5 | 0.0 | 0.0 |
| 87.5° | 0.0 | 2.5 | 7.4 | 7.4 | 9.9 | 9.9 | 7.4 | 2.5 | 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 |

(END OF REPORT)