

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: P531619

Luminaire Tested: **GALN-SA6D-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531619
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21504 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

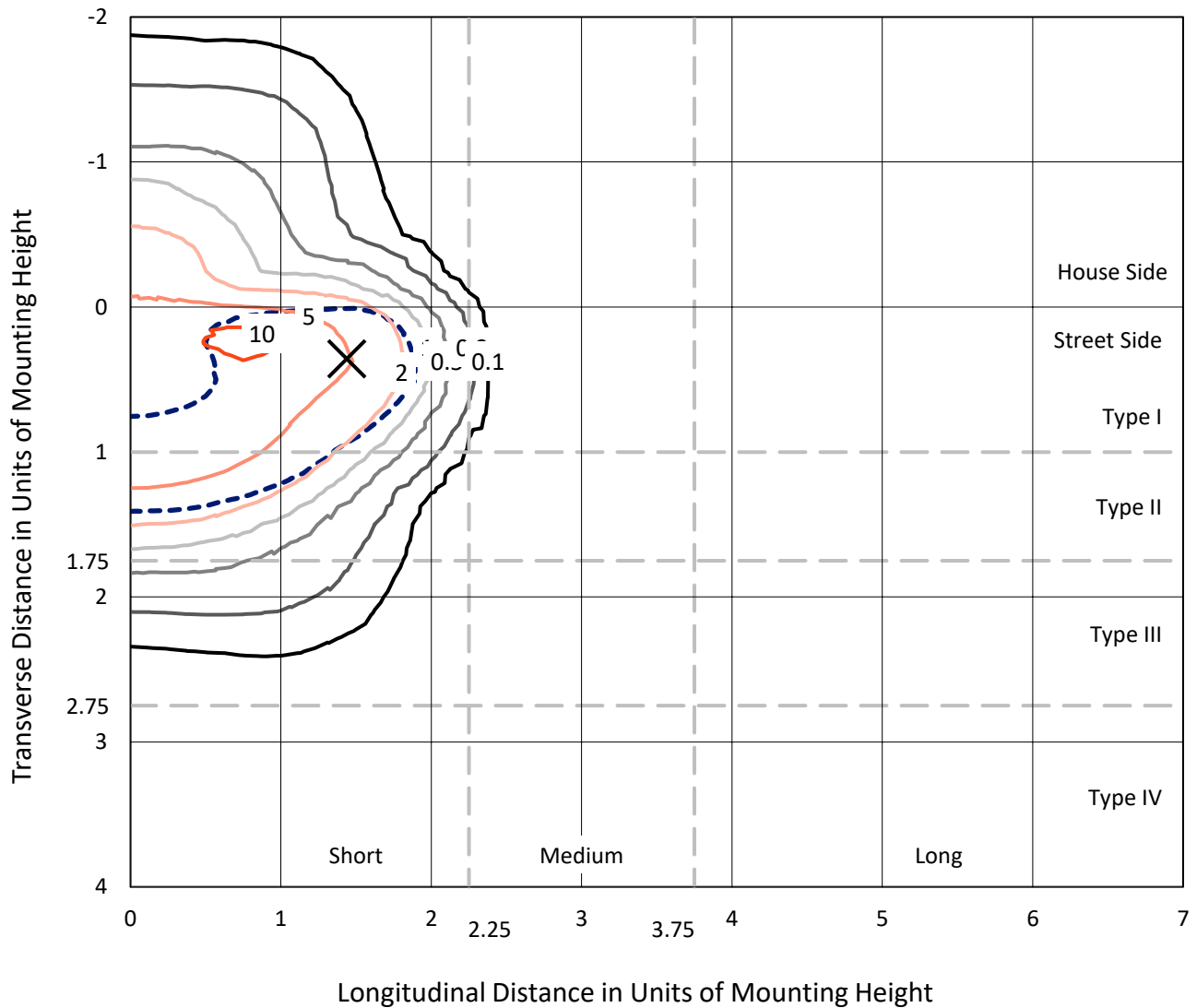
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

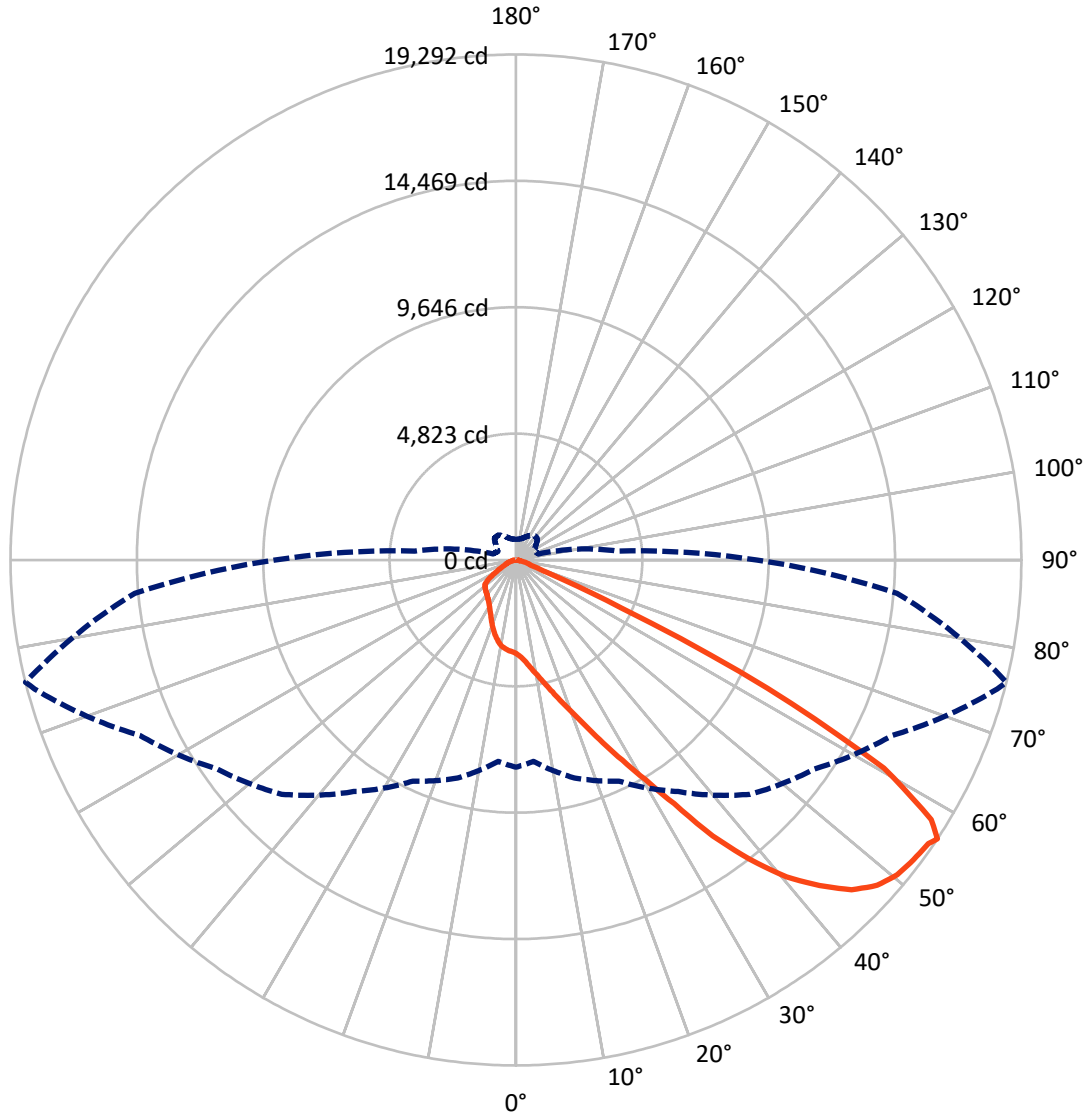
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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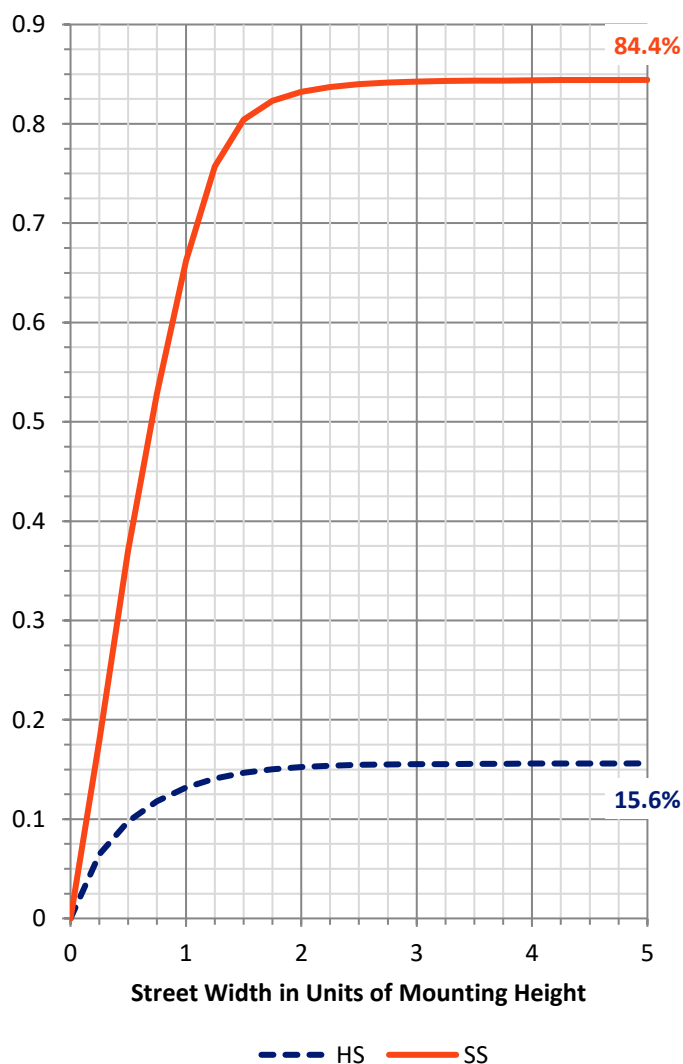
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3378.2 | 0.0 | 3378.2 |
| | % Fixture | 15.7 | 0.0 | 15.7 |
| Street Side | Lumens | 18125.8 | 0.0 | 18125.8 |
| | % Fixture | 84.3 | 0.0 | 84.3 |
| Total | Lumens | 21504.0 | 0.0 | 21504.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 360.6 | 1.7 |
| 10°-20° | 1158.4 | 5.4 |
| 20°-30° | 2100.5 | 9.8 |
| 30°-40° | 3622.3 | 16.8 |
| 40°-50° | 5884.6 | 27.4 |
| 50°-60° | 6202.6 | 28.8 |
| 60°-70° | 1895.2 | 8.8 |
| 70°-80° | 242.9 | 1.1 |
| 80°-90° | 36.9 | 0.2 |
| 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° | 21504.0 | 100.0 |
| 0°-180° | 21504.0 | 100.0 |

Coefficient of Utilization

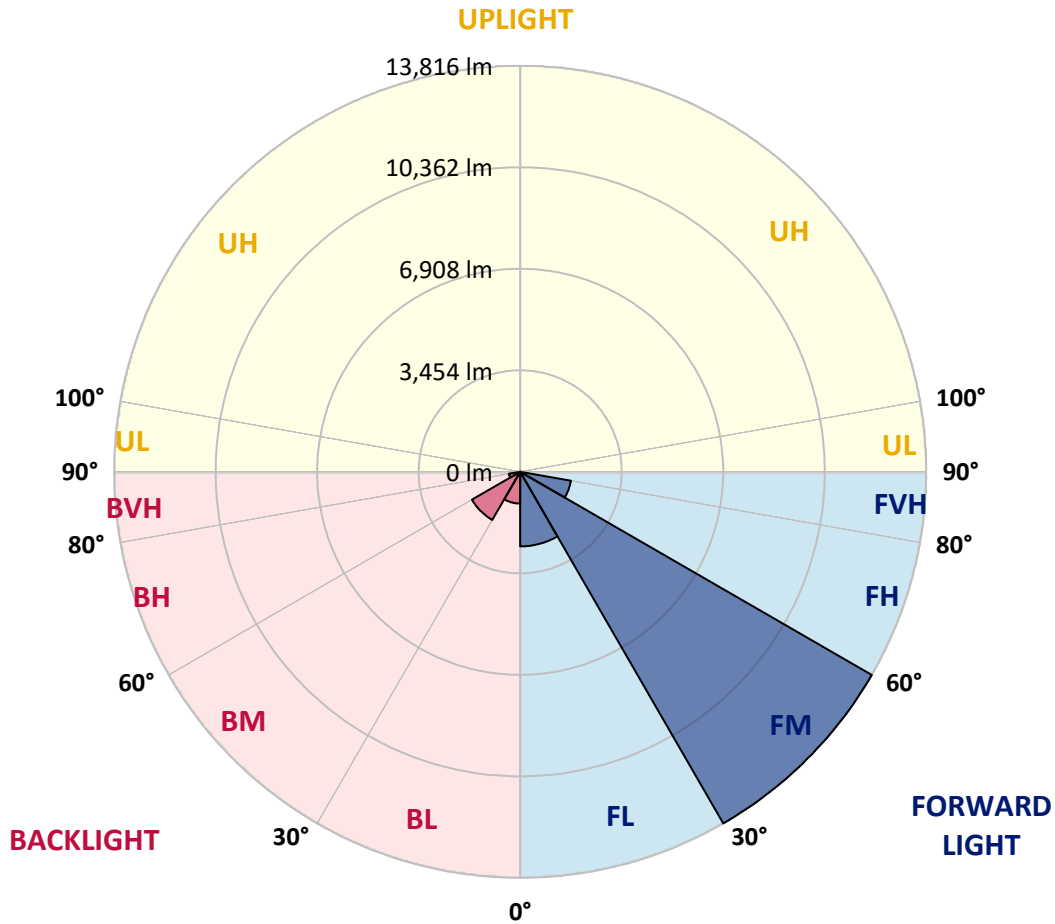


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2538.7 | 11.8 | | | |
| FM (30°-60°) | 13816.3 | 64.2 | | | |
| FH (60°-80°) | 1752.7 | 8.2 | | | G1/1800 |
| FVH (80°-90°) | 18.1 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1080.7 | 5.0 | B3/2500 | | |
| BM (30°-60°) | 1893.3 | 8.8 | B2/2500 | | |
| BH (60°-80°) | 385.4 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 18.8 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3579.4 | 3579.4 | 3579.4 | 3579.4 | 3579.4 | 3579.4 | 3579.4 | 3579.4 | 3579.4 | 3579.4 | 3579.4 |
| 2.5° | 4122.4 | 4027.3 | 4031.3 | 4023.3 | 4011.4 | 3967.8 | 3837.0 | 3817.2 | 3730.0 | 3706.2 | 3626.9 |
| 5° | 4617.9 | 4534.7 | 4582.2 | 4510.9 | 4443.5 | 4403.9 | 4189.8 | 4090.7 | 3952.0 | 3900.4 | 3789.5 |
| 7.5° | 4927.1 | 4887.4 | 4871.6 | 4875.6 | 4812.1 | 4713.0 | 4617.9 | 4399.9 | 4213.6 | 4174.0 | 3940.1 |
| 10° | 5077.7 | 5053.9 | 5077.7 | 5065.8 | 5093.6 | 5105.5 | 4939.0 | 4808.2 | 4534.7 | 4467.3 | 4102.6 |
| 12.5° | 5113.4 | 5161.0 | 5180.8 | 5232.3 | 5299.7 | 5414.6 | 5402.8 | 5224.4 | 4859.7 | 4816.1 | 4352.3 |
| 15° | 5200.6 | 5240.2 | 5220.4 | 5303.7 | 5430.5 | 5624.7 | 5727.8 | 5700.0 | 5307.6 | 5228.3 | 4641.7 |
| 17.5° | 5279.9 | 5208.5 | 5275.9 | 5442.4 | 5569.2 | 5866.5 | 6116.2 | 6231.2 | 5795.2 | 5704.0 | 4907.3 |
| 20° | 5386.9 | 5367.1 | 5355.2 | 5438.4 | 5664.4 | 6060.8 | 6556.2 | 6766.3 | 6342.2 | 6247.1 | 5287.8 |
| 22.5° | 5711.9 | 5715.9 | 5708.0 | 5585.1 | 5747.6 | 6195.5 | 6940.7 | 7460.0 | 6996.2 | 6917.0 | 5719.9 |
| 25° | 6140.0 | 6088.5 | 6048.9 | 5949.8 | 5929.9 | 6318.4 | 7329.2 | 8308.3 | 7781.1 | 7725.6 | 6187.6 |
| 27.5° | 6591.9 | 6591.9 | 6473.0 | 6381.8 | 6255.0 | 6623.6 | 7685.9 | 9132.8 | 8728.4 | 8653.1 | 6595.9 |
| 30° | 7083.4 | 7111.2 | 7095.3 | 6901.1 | 6821.8 | 6956.6 | 8050.6 | 10187.1 | 9814.5 | 9719.4 | 7269.7 |
| 32.5° | 7808.8 | 7749.4 | 7816.7 | 7654.2 | 7420.4 | 7539.3 | 8625.4 | 11130.5 | 11225.7 | 11090.9 | 8153.7 |
| 35° | 8768.1 | 8732.4 | 8688.8 | 8423.2 | 8145.7 | 8240.9 | 9438.0 | 12292.0 | 12997.5 | 12930.1 | 9045.5 |
| 37.5° | 9628.2 | 9608.4 | 9572.7 | 9390.4 | 9069.3 | 9184.3 | 10361.6 | 13500.9 | 14725.8 | 14503.8 | 10306.1 |
| 40° | 10532.0 | 10639.0 | 10524.1 | 10361.6 | 10068.2 | 10321.9 | 11447.7 | 14218.4 | 16180.5 | 15911.0 | 11269.3 |
| 42.5° | 11756.8 | 11673.6 | 11725.1 | 11427.8 | 11269.3 | 11546.7 | 12537.7 | 14935.9 | 17310.2 | 16989.1 | 12292.0 |
| 45° | 13060.9 | 13064.9 | 12926.2 | 12831.0 | 12418.8 | 12720.1 | 13207.6 | 15332.2 | 18210.0 | 17960.3 | 13064.9 |
| 47.5° | 13897.3 | 13893.4 | 14044.0 | 14194.6 | 13770.5 | 13473.2 | 13663.5 | 15708.8 | 18673.8 | 18558.8 | 13346.3 |
| 50° | 13766.5 | 13806.2 | 14000.4 | 14563.3 | 14785.2 | 14384.9 | 14091.6 | 15597.8 | 18883.9 | 18872.0 | 13588.1 |
| 52.5° | 11974.8 | 12105.7 | 12430.7 | 13243.3 | 14361.1 | 14856.6 | 14539.5 | 15803.9 | 18986.9 | 19006.7 | 13948.9 |
| 55° | 9116.9 | 9188.2 | 9806.6 | 10793.6 | 12030.3 | 13726.9 | 14361.1 | 15966.5 | 19066.2 | 19101.9 | 14384.9 |
| 56° | 7907.9 | 7717.7 | 8609.5 | 9311.1 | 10789.6 | 12644.7 | 13909.2 | 15839.6 | 19018.6 | 19292.1 | 14602.9 |
| 57.5° | 5969.6 | 5842.7 | 6564.2 | 7440.2 | 8863.2 | 10821.4 | 12506.0 | 15241.1 | 18697.6 | 18693.6 | 14289.7 |
| 60° | 3630.9 | 3504.1 | 4059.0 | 4574.3 | 5371.0 | 6663.3 | 8451.0 | 12137.4 | 15807.9 | 16140.9 | 11570.5 |
| 62.5° | 2160.3 | 2239.6 | 2786.6 | 3099.7 | 3357.4 | 3492.2 | 4372.1 | 7214.2 | 10547.9 | 10785.7 | 7178.6 |
| 65° | 1438.9 | 1466.6 | 1878.9 | 2394.2 | 2509.1 | 1997.8 | 1779.8 | 2921.4 | 4574.3 | 4427.6 | 2961.0 |
| 67.5° | 887.9 | 951.3 | 1260.5 | 1799.6 | 1993.8 | 1458.7 | 844.3 | 1090.1 | 1260.5 | 1260.5 | 856.2 |
| 70° | 539.1 | 570.8 | 840.3 | 1224.8 | 1367.5 | 939.4 | 614.4 | 614.4 | 606.5 | 594.6 | 511.3 |
| 72.5° | 257.7 | 277.5 | 428.1 | 630.3 | 642.1 | 495.5 | 475.7 | 519.3 | 507.4 | 503.4 | 424.1 |
| 75° | 111.0 | 118.9 | 150.6 | 198.2 | 225.9 | 210.1 | 289.4 | 372.6 | 384.5 | 372.6 | 305.2 |
| 77.5° | 35.7 | 39.6 | 55.5 | 71.3 | 75.3 | 91.2 | 122.9 | 154.6 | 178.4 | 166.5 | 150.6 |
| 80° | 4.0 | 7.9 | 15.9 | 35.7 | 55.5 | 71.3 | 91.2 | 103.1 | 115.0 | 115.0 | 107.0 |
| 82.5° | 4.0 | 4.0 | 15.9 | 31.7 | 51.5 | 67.4 | 87.2 | 99.1 | 115.0 | 118.9 | 111.0 |
| 85° | 0.0 | 4.0 | 11.9 | 27.7 | 43.6 | 43.6 | 39.6 | 39.6 | 27.7 | 27.7 | 27.7 |
| 87.5° | 0.0 | 0.0 | 4.0 | 4.0 | 4.0 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 |
| 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° | 3579.4 | 3579.4 | 3579.4 | 3579.4 | 3579.4 | 3579.4 | 3579.4 | 3579.4 | 3579.4 | 3579.4 | 3579.4 |
| 2.5° | 3611.1 | 3603.2 | 3496.1 | 3428.7 | 3393.1 | 3321.7 | 3278.1 | 3246.4 | 3222.6 | 3194.9 | 3198.8 |
| 5° | 3658.7 | 3630.9 | 3452.5 | 3329.6 | 3183.0 | 3103.7 | 3036.3 | 2980.8 | 2945.2 | 2937.2 | 2921.4 |
| 7.5° | 3793.4 | 3646.8 | 3377.2 | 3155.2 | 2968.9 | 2889.7 | 2830.2 | 2794.5 | 2810.4 | 2774.7 | 2802.5 |
| 10° | 3896.5 | 3678.5 | 3286.0 | 2965.0 | 2778.7 | 2719.2 | 2687.5 | 2715.2 | 2754.9 | 2739.0 | 2719.2 |
| 12.5° | 4023.3 | 3710.2 | 3139.4 | 2782.6 | 2608.2 | 2564.6 | 2620.1 | 2671.6 | 2750.9 | 2782.6 | 2743.0 |
| 15° | 4166.0 | 3745.9 | 2953.1 | 2572.6 | 2461.6 | 2497.2 | 2592.4 | 2683.5 | 2762.8 | 2802.5 | 2826.2 |
| 17.5° | 4340.4 | 3734.0 | 2770.7 | 2406.1 | 2322.8 | 2425.9 | 2540.8 | 2624.1 | 2743.0 | 2802.5 | 2786.6 |
| 20° | 4503.0 | 3694.3 | 2568.6 | 2239.6 | 2243.5 | 2338.7 | 2433.8 | 2568.6 | 2632.0 | 2711.3 | 2683.5 |
| 22.5° | 4657.5 | 3623.0 | 2358.5 | 2124.6 | 2124.6 | 2271.3 | 2318.9 | 2406.1 | 2461.6 | 2501.2 | 2497.2 |
| 25° | 4875.6 | 3488.2 | 2184.1 | 2013.6 | 2061.2 | 2156.3 | 2196.0 | 2223.7 | 2199.9 | 2231.7 | 2235.6 |
| 27.5° | 5030.1 | 3349.5 | 2041.4 | 1914.5 | 2001.8 | 2073.1 | 2061.2 | 2045.4 | 1989.9 | 1946.3 | 1974.0 |
| 30° | 5196.6 | 3187.0 | 1918.5 | 1847.2 | 1894.7 | 1958.2 | 1910.6 | 1863.0 | 1775.8 | 1704.5 | 1708.4 |
| 32.5° | 5434.5 | 3111.6 | 1811.5 | 1767.9 | 1831.3 | 1839.2 | 1787.7 | 1716.4 | 1629.1 | 1561.8 | 1557.8 |
| 35° | 5878.4 | 3064.1 | 1720.3 | 1716.4 | 1728.2 | 1732.2 | 1680.7 | 1593.5 | 1557.8 | 1502.3 | 1522.1 |
| 37.5° | 6322.4 | 3040.3 | 1656.9 | 1641.0 | 1637.1 | 1641.0 | 1581.6 | 1498.3 | 1565.7 | 1561.8 | 1569.7 |
| 40° | 6889.2 | 3147.3 | 1565.7 | 1545.9 | 1549.9 | 1549.9 | 1474.6 | 1450.8 | 1569.7 | 1581.6 | 1585.5 |
| 42.5° | 7464.0 | 3282.1 | 1506.3 | 1442.8 | 1458.7 | 1458.7 | 1419.1 | 1391.3 | 1474.6 | 1395.3 | 1383.4 |
| 45° | 7963.4 | 3480.3 | 1442.8 | 1339.8 | 1379.4 | 1399.2 | 1387.4 | 1339.8 | 1288.3 | 1153.5 | 1153.5 |
| 47.5° | 8125.9 | 3654.7 | 1367.5 | 1240.7 | 1272.4 | 1359.6 | 1323.9 | 1224.8 | 1133.7 | 1022.7 | 1014.8 |
| 50° | 8411.3 | 3845.0 | 1308.1 | 1125.7 | 1193.1 | 1300.1 | 1264.5 | 1165.4 | 1062.3 | 983.0 | 987.0 |
| 52.5° | 8704.7 | 4063.0 | 1197.1 | 991.0 | 1074.2 | 1252.6 | 1252.6 | 1141.6 | 983.0 | 927.5 | 919.6 |
| 55° | 9144.6 | 4055.0 | 998.9 | 812.6 | 959.3 | 1181.2 | 1201.1 | 1022.7 | 880.0 | 836.4 | 836.4 |
| 56° | 9208.1 | 3872.7 | 899.8 | 761.1 | 907.7 | 1161.4 | 1165.4 | 991.0 | 840.3 | 792.8 | 792.8 |
| 57.5° | 8732.4 | 3496.1 | 788.8 | 697.6 | 844.3 | 1125.7 | 1129.7 | 963.2 | 808.6 | 741.2 | 733.3 |
| 60° | 6718.8 | 2366.4 | 658.0 | 622.3 | 765.0 | 1014.8 | 1034.6 | 876.0 | 709.5 | 658.0 | 654.0 |
| 62.5° | 3793.4 | 1312.0 | 578.7 | 562.9 | 658.0 | 864.1 | 923.6 | 765.0 | 602.5 | 574.8 | 582.7 |
| 65° | 1732.2 | 721.4 | 487.6 | 455.8 | 531.2 | 665.9 | 745.2 | 630.3 | 495.5 | 463.8 | 463.8 |
| 67.5° | 634.2 | 491.5 | 416.2 | 360.7 | 372.6 | 432.1 | 483.6 | 408.3 | 329.0 | 281.4 | 293.3 |
| 70° | 451.9 | 412.2 | 364.7 | 313.1 | 289.4 | 281.4 | 277.5 | 229.9 | 162.5 | 126.8 | 134.8 |
| 72.5° | 364.7 | 340.9 | 305.2 | 265.6 | 225.9 | 190.3 | 162.5 | 118.9 | 75.3 | 51.5 | 47.6 |
| 75° | 261.6 | 249.7 | 222.0 | 190.3 | 158.6 | 134.8 | 111.0 | 75.3 | 39.6 | 19.8 | 19.8 |
| 77.5° | 134.8 | 134.8 | 130.8 | 118.9 | 99.1 | 79.3 | 63.4 | 43.6 | 23.8 | 7.9 | 7.9 |
| 80° | 103.1 | 111.0 | 115.0 | 103.1 | 91.2 | 71.3 | 51.5 | 31.7 | 15.9 | 4.0 | 4.0 |
| 82.5° | 99.1 | 115.0 | 122.9 | 107.0 | 91.2 | 67.4 | 51.5 | 31.7 | 15.9 | 4.0 | 4.0 |
| 85° | 23.8 | 23.8 | 35.7 | 39.6 | 51.5 | 55.5 | 43.6 | 27.7 | 11.9 | 4.0 | 4.0 |
| 87.5° | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 4.0 | 4.0 | 4.0 | 4.0 | 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)