

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: P452788

Luminaire Tested: **GALN-SA3D-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15722 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

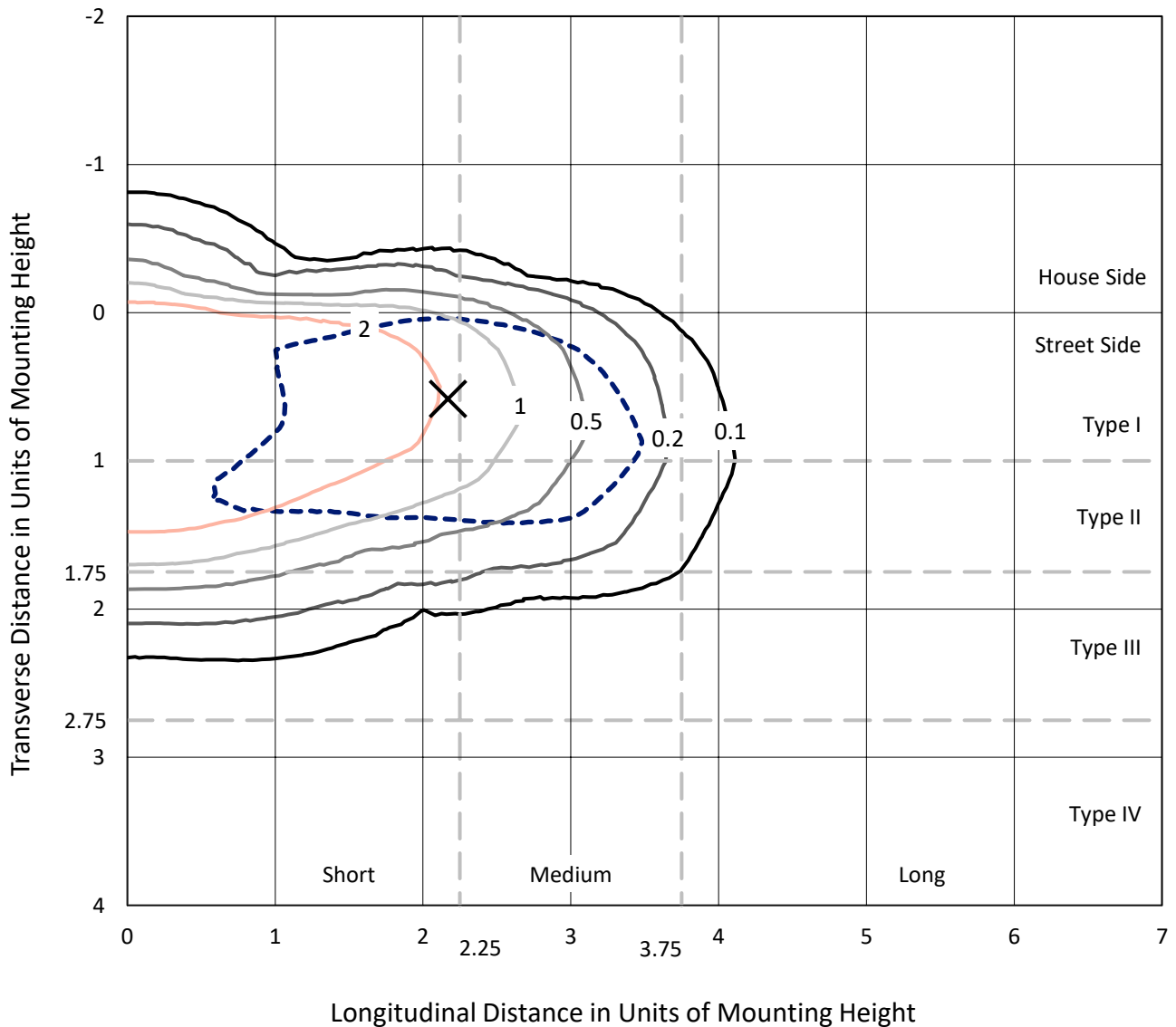
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

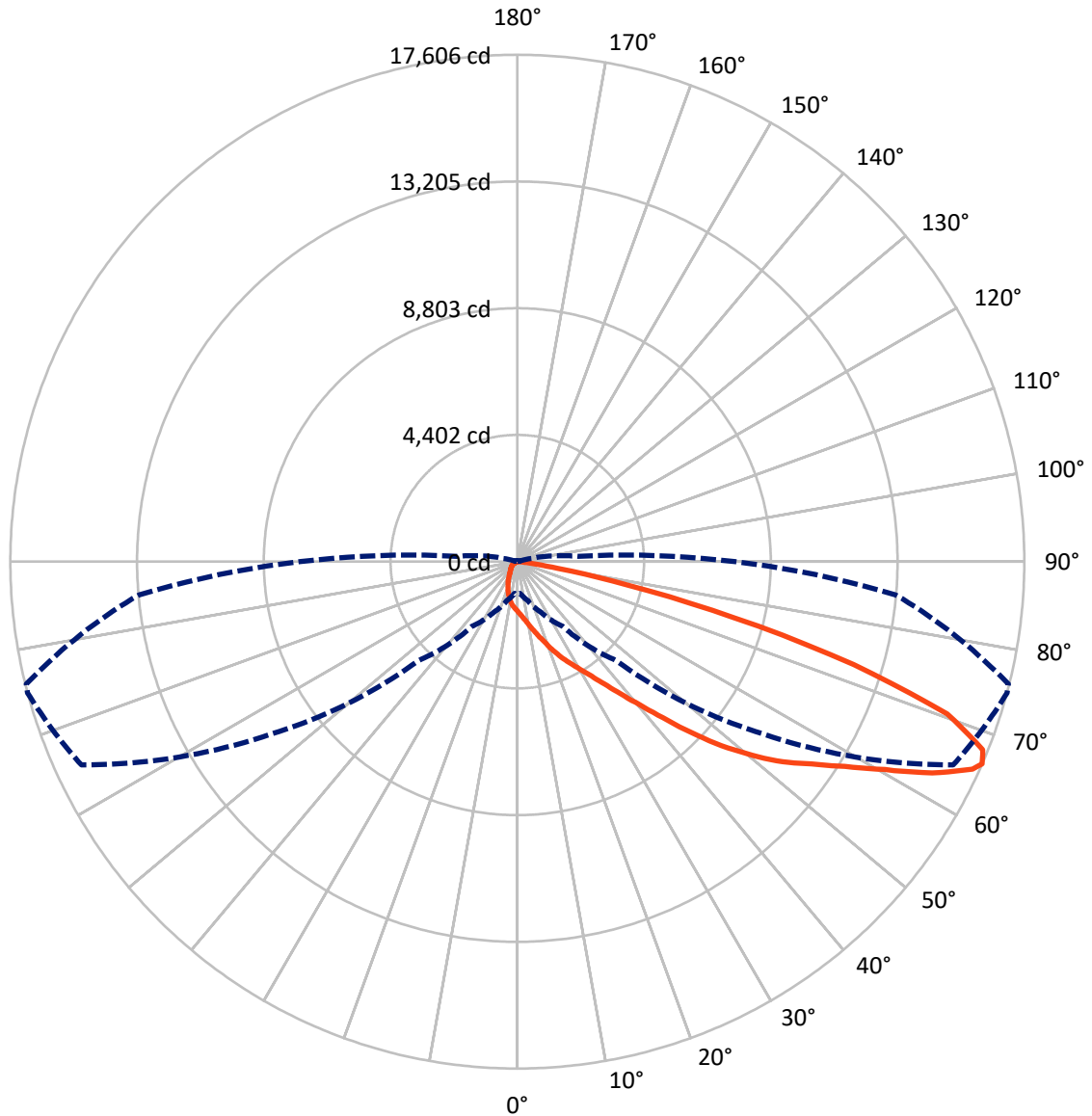
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 970.6 | 0.0 | 970.6 |
| | % Fixture | 6.2 | 0.0 | 6.2 |
| Street Side | Lumens | 14751.4 | 0.0 | 14751.4 |
| | % Fixture | 93.8 | 0.0 | 93.8 |
| Total | Lumens | 15722.0 | 0.0 | 15722.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 165.8 | 1.1 |
| 10°-20° | 488.1 | 3.1 |
| 20°-30° | 842.8 | 5.4 |
| 30°-40° | 1520.2 | 9.7 |
| 40°-50° | 2746.3 | 17.5 |
| 50°-60° | 4281.4 | 27.2 |
| 60°-70° | 4067.2 | 25.9 |
| 70°-80° | 1524.3 | 9.7 |
| 80°-90° | 86.0 | 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° | 15722.0 | 100.0 |
| 0°-180° | 15722.0 | 100.0 |

Coefficient of Utilization



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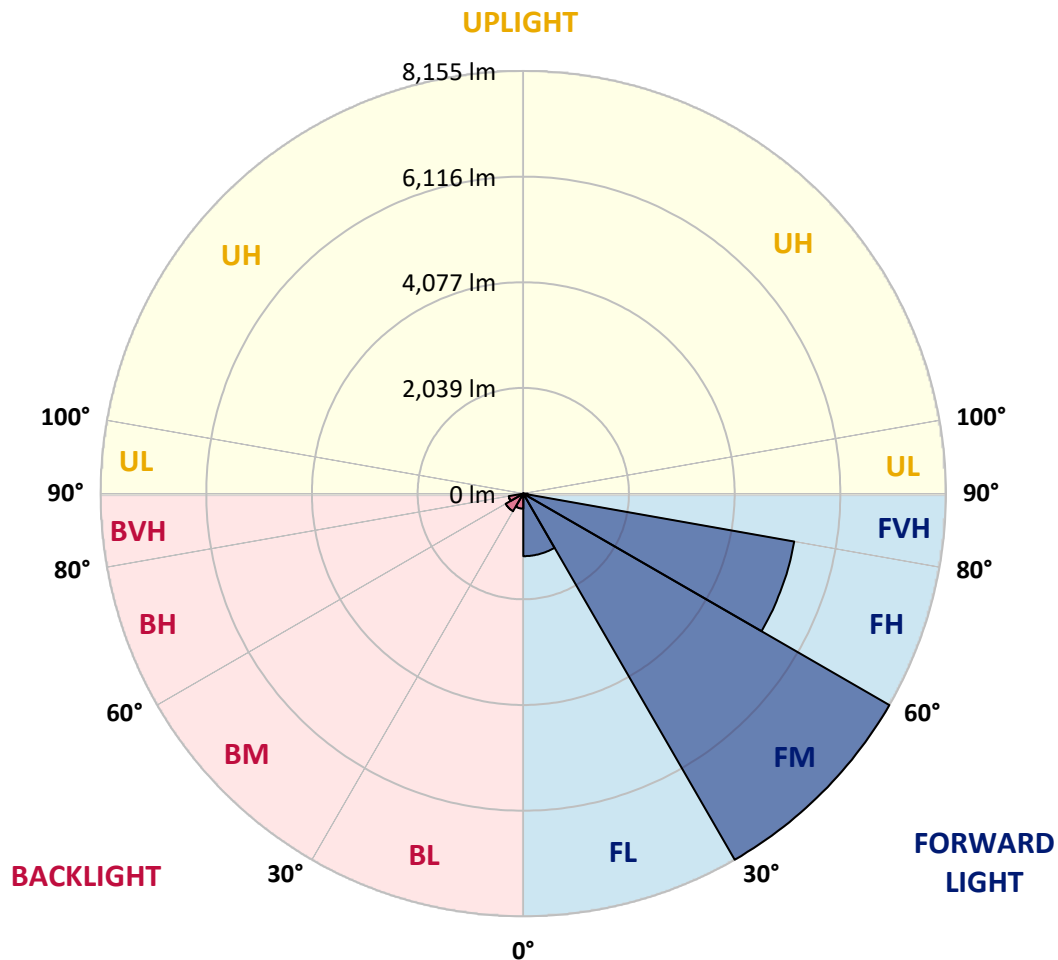
CATALOG NUMBER: GALN-SA3D-730-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1206.8 | 7.7 | | | |
| FM (30°-60°) | 8155.0 | 51.9 | | | |
| FH (60°-80°) | 5308.0 | 33.8 | | | G3/7500 |
| FVH (80°-90°) | 81.6 | 0.5 | | | G1/100 |
| BL (0°-30°) | 289.9 | 1.8 | B1/500 | | |
| BM (30°-60°) | 392.9 | 2.5 | B1/1000 | | |
| BH (60°-80°) | 283.4 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.4 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 1719.4 | 1719.4 | 1719.4 | 1719.4 | 1719.4 | 1719.4 | 1719.4 | 1719.4 | 1719.4 | 1719.4 | 1719.4 |
| 2.5° | 2054.2 | 2028.6 | 2036.7 | 2025.1 | 1998.4 | 1958.8 | 1924.0 | 1874.0 | 1824.0 | 1815.8 | 1760.0 |
| 5° | 2325.0 | 2318.1 | 2308.7 | 2275.0 | 2256.4 | 2196.0 | 2123.9 | 2037.9 | 1934.4 | 1915.8 | 1814.7 |
| 7.5° | 2509.9 | 2506.4 | 2511.0 | 2493.6 | 2477.3 | 2422.7 | 2346.0 | 2228.5 | 2068.1 | 2057.6 | 1889.1 |
| 10° | 2570.3 | 2579.6 | 2597.1 | 2625.0 | 2650.5 | 2633.1 | 2575.0 | 2428.5 | 2241.3 | 2211.1 | 1973.9 |
| 12.5° | 2535.4 | 2545.9 | 2587.8 | 2662.2 | 2744.7 | 2792.4 | 2769.1 | 2662.2 | 2425.0 | 2400.6 | 2069.3 |
| 15° | 2445.9 | 2458.7 | 2518.0 | 2633.1 | 2780.7 | 2915.6 | 2973.7 | 2897.0 | 2638.9 | 2599.4 | 2184.4 |
| 17.5° | 2313.4 | 2332.0 | 2416.9 | 2569.2 | 2771.4 | 3003.9 | 3167.8 | 3142.3 | 2866.8 | 2829.6 | 2309.9 |
| 20° | 2213.4 | 2227.4 | 2299.4 | 2473.8 | 2731.9 | 3052.8 | 3352.7 | 3424.8 | 3148.1 | 3084.1 | 2457.6 |
| 22.5° | 2279.7 | 2284.3 | 2308.7 | 2413.4 | 2661.0 | 3065.5 | 3515.4 | 3718.9 | 3446.8 | 3389.9 | 2611.0 |
| 25° | 2604.0 | 2557.5 | 2533.1 | 2509.9 | 2645.9 | 3053.9 | 3663.1 | 4025.8 | 3744.5 | 3684.0 | 2763.3 |
| 27.5° | 3115.5 | 3094.6 | 2971.4 | 2806.3 | 2774.9 | 3069.0 | 3760.7 | 4316.4 | 4024.6 | 3959.5 | 2912.1 |
| 30° | 3672.4 | 3636.3 | 3560.8 | 3319.0 | 3076.0 | 3176.0 | 3831.6 | 4598.9 | 4355.9 | 4269.9 | 3048.1 |
| 32.5° | 4183.9 | 4207.1 | 4094.4 | 3845.6 | 3564.3 | 3403.8 | 3923.5 | 4907.0 | 4736.1 | 4629.1 | 3206.2 |
| 35° | 4780.3 | 4826.8 | 4653.5 | 4415.2 | 4086.2 | 3815.4 | 4102.5 | 5254.6 | 5218.5 | 5083.7 | 3450.3 |
| 37.5° | 5385.9 | 5413.8 | 5308.0 | 4973.2 | 4676.8 | 4338.5 | 4439.6 | 5683.5 | 5812.6 | 5697.5 | 3742.1 |
| 40° | 5895.1 | 5933.5 | 5855.6 | 5558.0 | 5241.8 | 4944.2 | 4929.1 | 6150.9 | 6519.4 | 6400.8 | 4176.9 |
| 42.5° | 6284.5 | 6313.6 | 6315.9 | 6105.5 | 5820.7 | 5685.8 | 5553.3 | 6747.2 | 7405.2 | 7268.0 | 4681.4 |
| 45° | 6776.3 | 6818.1 | 6793.7 | 6650.7 | 6438.0 | 6413.6 | 6345.0 | 7468.0 | 8465.4 | 8292.2 | 5335.9 |
| 47.5° | 7536.6 | 7564.5 | 7504.0 | 7335.5 | 7119.2 | 7157.6 | 7116.9 | 8275.9 | 9546.6 | 9397.8 | 6013.7 |
| 50° | 8064.3 | 8110.9 | 8196.9 | 8264.3 | 8107.4 | 7965.5 | 7844.6 | 9030.4 | 10573.1 | 10439.4 | 6706.5 |
| 52.5° | 8058.5 | 8135.3 | 8407.3 | 8746.7 | 9089.7 | 9046.7 | 8699.1 | 9863.9 | 11553.1 | 11388.0 | 7357.5 |
| 55° | 7515.6 | 7664.4 | 8064.3 | 8666.5 | 9616.3 | 10089.4 | 9931.3 | 10828.8 | 12399.4 | 12287.8 | 8112.0 |
| 57.5° | 6395.0 | 6485.7 | 7041.3 | 7883.0 | 9322.2 | 10580.0 | 11358.9 | 12136.6 | 13414.2 | 13361.9 | 9283.8 |
| 60° | 4301.3 | 4342.0 | 5056.9 | 6097.4 | 7936.5 | 10090.6 | 12405.2 | 13718.8 | 14663.9 | 14638.4 | 10652.1 |
| 62.5° | 2464.5 | 2482.0 | 3000.4 | 3878.1 | 5647.5 | 8551.4 | 12493.5 | 15670.7 | 16162.4 | 16176.4 | 12235.4 |
| 65° | 1326.4 | 1335.7 | 1754.2 | 2276.2 | 3436.4 | 6095.1 | 11234.5 | 16740.2 | 17373.8 | 17400.5 | 13216.6 |
| 66° | 1145.1 | 1100.9 | 1396.2 | 1940.2 | 2734.2 | 4851.2 | 10438.2 | 16701.8 | 17606.3 | 17577.2 | 13181.7 |
| 67.5° | 870.7 | 910.2 | 1114.8 | 1491.5 | 2026.3 | 3449.2 | 8617.7 | 15959.0 | 17429.6 | 17338.9 | 12645.8 |
| 70° | 623.1 | 639.4 | 794.0 | 1063.7 | 1379.9 | 1892.6 | 5506.8 | 13255.0 | 15841.6 | 15719.5 | 11017.1 |
| 72.5° | 402.2 | 419.7 | 562.7 | 769.6 | 997.4 | 1033.5 | 3083.0 | 9576.8 | 12213.4 | 12195.9 | 8296.9 |
| 75° | 287.1 | 303.4 | 372.0 | 551.0 | 749.8 | 639.4 | 1484.5 | 6454.3 | 7764.4 | 7712.1 | 5132.5 |
| 77.5° | 208.1 | 216.2 | 248.8 | 360.4 | 535.9 | 458.0 | 688.2 | 3446.8 | 3865.4 | 4047.9 | 2268.1 |
| 80° | 119.7 | 126.7 | 173.2 | 219.7 | 362.7 | 312.7 | 329.0 | 1383.4 | 1426.4 | 1357.8 | 709.1 |
| 82.5° | 59.3 | 67.4 | 103.5 | 150.0 | 226.7 | 210.4 | 151.1 | 416.2 | 439.4 | 427.8 | 179.0 |
| 85° | 14.0 | 17.4 | 58.1 | 98.8 | 110.4 | 94.2 | 73.2 | 122.1 | 151.1 | 147.6 | 68.6 |
| 87.5° | 1.2 | 2.3 | 20.9 | 17.4 | 18.6 | 31.4 | 25.6 | 31.4 | 48.8 | 45.3 | 24.4 |
| 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° | 1719.4 | 1719.4 | 1719.4 | 1719.4 | 1719.4 | 1719.4 | 1719.4 | 1719.4 | 1719.4 | 1719.4 | 1719.4 |
| 2.5° | 1734.5 | 1712.4 | 1648.4 | 1585.7 | 1533.4 | 1478.7 | 1428.7 | 1399.7 | 1388.0 | 1375.3 | 1381.1 |
| 5° | 1758.9 | 1705.4 | 1576.4 | 1464.8 | 1355.5 | 1262.5 | 1188.1 | 1140.4 | 1117.2 | 1113.7 | 1107.9 |
| 7.5° | 1791.4 | 1699.6 | 1499.6 | 1325.3 | 1182.3 | 1078.8 | 993.9 | 925.4 | 904.4 | 885.8 | 870.7 |
| 10° | 1831.0 | 1689.1 | 1404.3 | 1178.8 | 1026.5 | 896.3 | 784.7 | 703.3 | 661.5 | 649.8 | 658.0 |
| 12.5° | 1872.8 | 1669.4 | 1304.3 | 1043.9 | 868.4 | 702.2 | 598.7 | 558.0 | 546.4 | 541.7 | 542.9 |
| 15° | 1914.7 | 1645.0 | 1199.7 | 913.7 | 691.7 | 560.3 | 512.7 | 502.2 | 497.6 | 495.2 | 492.9 |
| 17.5° | 1953.0 | 1605.4 | 1082.3 | 787.0 | 560.3 | 479.0 | 461.5 | 452.2 | 442.9 | 439.4 | 433.6 |
| 20° | 1998.4 | 1560.1 | 976.5 | 645.2 | 474.3 | 433.6 | 412.7 | 395.3 | 381.3 | 372.0 | 370.8 |
| 22.5° | 2041.4 | 1502.0 | 866.1 | 534.8 | 432.5 | 389.4 | 355.7 | 337.1 | 320.9 | 309.2 | 312.7 |
| 25° | 2064.6 | 1431.1 | 767.3 | 466.2 | 394.1 | 345.3 | 308.1 | 284.8 | 267.4 | 261.6 | 260.4 |
| 27.5° | 2064.6 | 1343.9 | 670.8 | 426.6 | 359.2 | 305.7 | 267.4 | 245.3 | 233.7 | 225.5 | 226.7 |
| 30° | 2048.3 | 1247.4 | 581.3 | 396.4 | 329.0 | 270.9 | 234.8 | 215.1 | 205.8 | 200.0 | 198.8 |
| 32.5° | 2035.6 | 1155.5 | 504.5 | 367.4 | 297.6 | 240.6 | 209.3 | 194.1 | 184.8 | 179.0 | 179.0 |
| 35° | 2055.3 | 1076.5 | 445.2 | 338.3 | 268.5 | 217.4 | 189.5 | 175.5 | 166.2 | 161.6 | 160.4 |
| 37.5° | 2107.6 | 1004.4 | 399.9 | 306.9 | 241.8 | 197.6 | 175.5 | 159.3 | 150.0 | 144.2 | 141.8 |
| 40° | 2236.7 | 963.7 | 366.2 | 277.8 | 216.2 | 181.4 | 159.3 | 144.2 | 132.5 | 126.7 | 125.6 |
| 42.5° | 2443.6 | 964.9 | 333.6 | 251.1 | 196.5 | 167.4 | 145.3 | 127.9 | 115.1 | 109.3 | 108.1 |
| 45° | 2755.2 | 1009.1 | 308.1 | 225.5 | 179.0 | 152.3 | 130.2 | 111.6 | 100.0 | 94.2 | 94.2 |
| 47.5° | 3128.3 | 1095.1 | 286.0 | 203.4 | 162.8 | 138.3 | 115.1 | 96.5 | 84.9 | 80.2 | 80.2 |
| 50° | 3532.9 | 1206.7 | 263.9 | 180.2 | 148.8 | 123.2 | 98.8 | 83.7 | 74.4 | 70.9 | 70.9 |
| 52.5° | 3945.6 | 1341.5 | 241.8 | 161.6 | 133.7 | 107.0 | 84.9 | 74.4 | 66.3 | 63.9 | 62.8 |
| 55° | 4487.3 | 1513.6 | 218.6 | 141.8 | 117.4 | 91.8 | 75.6 | 65.1 | 55.8 | 52.3 | 51.2 |
| 57.5° | 5320.8 | 1772.8 | 193.0 | 124.4 | 96.5 | 76.7 | 65.1 | 54.6 | 44.2 | 38.4 | 37.2 |
| 60° | 6326.4 | 2089.0 | 166.2 | 109.3 | 77.9 | 62.8 | 52.3 | 41.9 | 32.6 | 25.6 | 24.4 |
| 62.5° | 7268.0 | 2290.1 | 140.7 | 91.8 | 61.6 | 47.7 | 37.2 | 31.4 | 23.3 | 16.3 | 15.1 |
| 65° | 7684.2 | 2222.7 | 116.3 | 74.4 | 48.8 | 33.7 | 24.4 | 22.1 | 14.0 | 7.0 | 5.8 |
| 66° | 7545.9 | 2122.7 | 107.0 | 67.4 | 44.2 | 29.1 | 20.9 | 18.6 | 10.5 | 3.5 | 3.5 |
| 67.5° | 7137.8 | 1886.8 | 93.0 | 58.1 | 38.4 | 23.3 | 16.3 | 14.0 | 5.8 | 1.2 | 0.0 |
| 70° | 6116.0 | 1526.4 | 73.2 | 43.0 | 27.9 | 16.3 | 9.3 | 7.0 | 3.5 | 0.0 | 0.0 |
| 72.5° | 4697.7 | 1136.9 | 58.1 | 32.6 | 19.8 | 9.3 | 4.7 | 2.3 | 3.5 | 0.0 | 0.0 |
| 75° | 2878.4 | 649.8 | 45.3 | 24.4 | 12.8 | 5.8 | 3.5 | 0.0 | 3.5 | 1.2 | 0.0 |
| 77.5° | 1277.6 | 291.8 | 30.2 | 16.3 | 9.3 | 4.7 | 2.3 | 0.0 | 2.3 | 1.2 | 0.0 |
| 80° | 323.2 | 95.3 | 17.4 | 11.6 | 7.0 | 3.5 | 1.2 | 0.0 | 2.3 | 2.3 | 1.2 |
| 82.5° | 88.4 | 34.9 | 12.8 | 9.3 | 5.8 | 3.5 | 1.2 | 0.0 | 2.3 | 2.3 | 2.3 |
| 85° | 34.9 | 16.3 | 11.6 | 9.3 | 7.0 | 3.5 | 1.2 | 0.0 | 2.3 | 2.3 | 2.3 |
| 87.5° | 16.3 | 11.6 | 11.6 | 10.5 | 8.1 | 3.5 | 1.2 | 0.0 | 2.3 | 1.2 | 2.3 |
| 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)