

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: P457450

Luminaire Tested: **GALN-SA8D-740-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51384 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

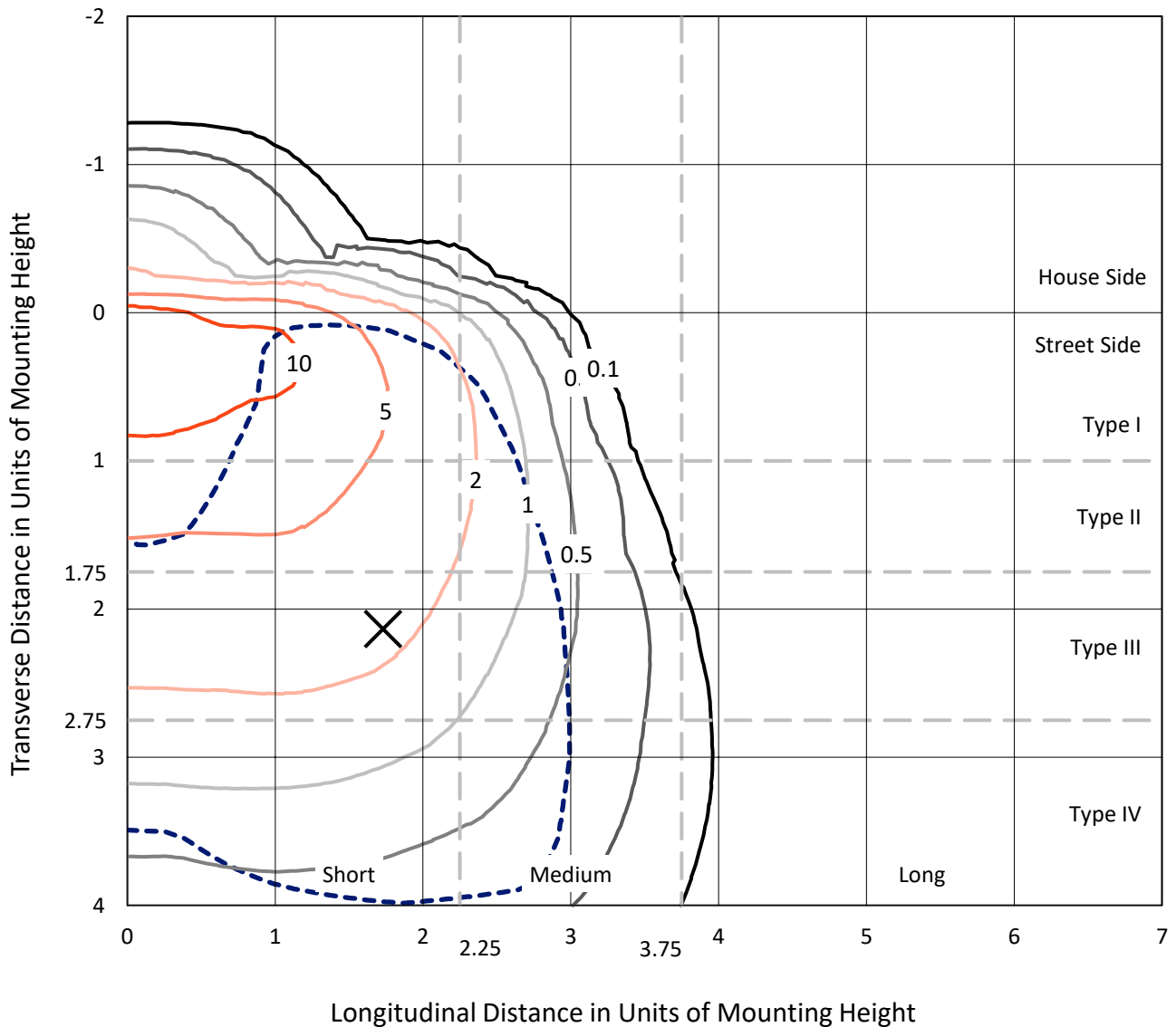
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

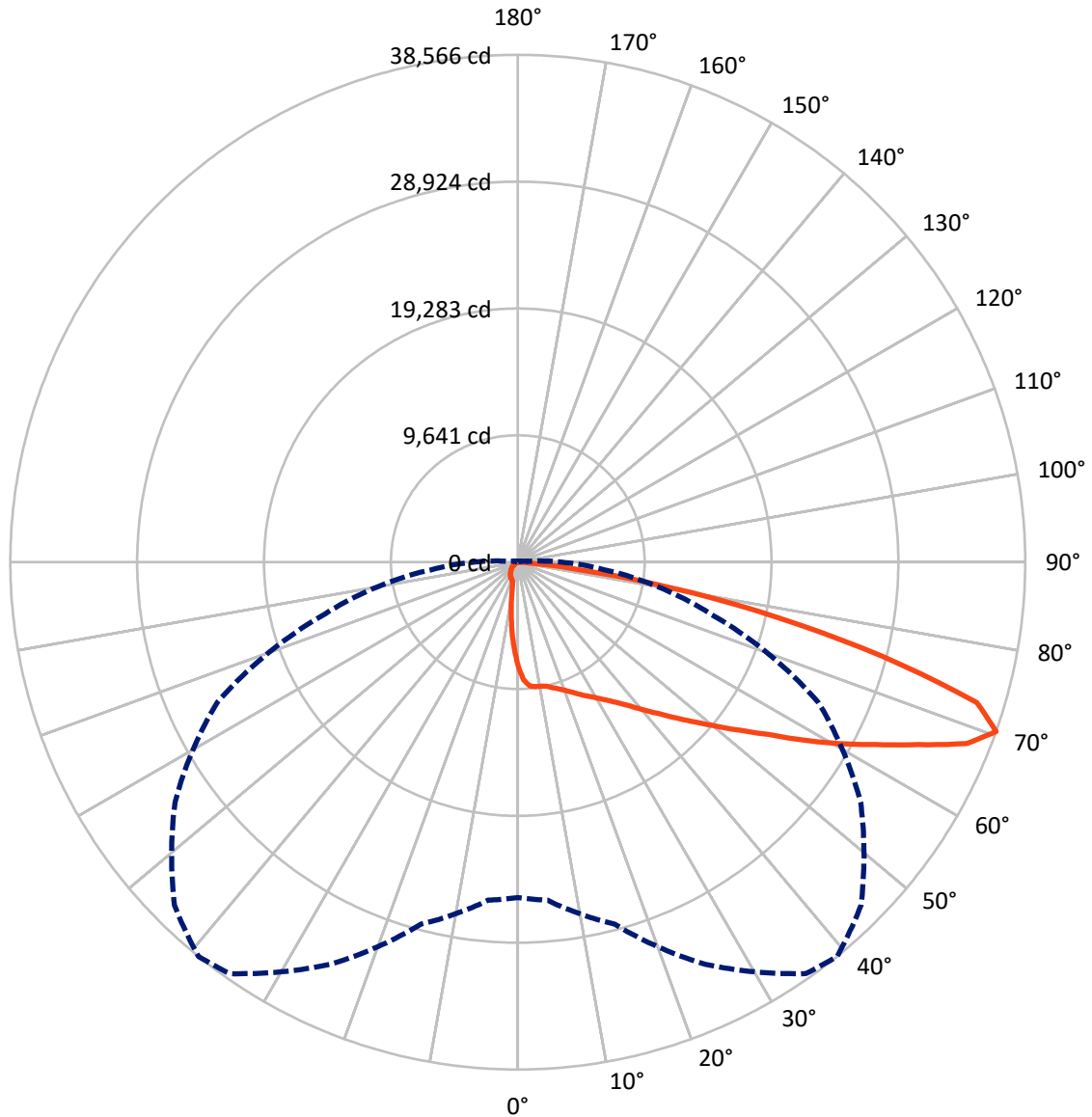
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3350.5 | 0.0 | 3350.5 |
| | % Fixture | 6.5 | 0.0 | 6.5 |
| Street Side | Lumens | 48033.5 | 0.0 | 48033.5 |
| | % Fixture | 93.5 | 0.0 | 93.5 |
| Total | Lumens | 51384.0 | 0.0 | 51384.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 683.9 | 1.3 |
| 10°-20° | 1777.1 | 3.5 |
| 20°-30° | 2977.2 | 5.8 |
| 30°-40° | 4617.3 | 9.0 |
| 40°-50° | 7316.9 | 14.2 |
| 50°-60° | 10725.6 | 20.9 |
| 60°-70° | 13747.6 | 26.8 |
| 70°-80° | 8638.5 | 16.8 |
| 80°-90° | 899.9 | 1.8 |
| 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° | 51384.0 | 100.0 |
| 0°-180° | 51384.0 | 100.0 |

Coefficient of Utilization



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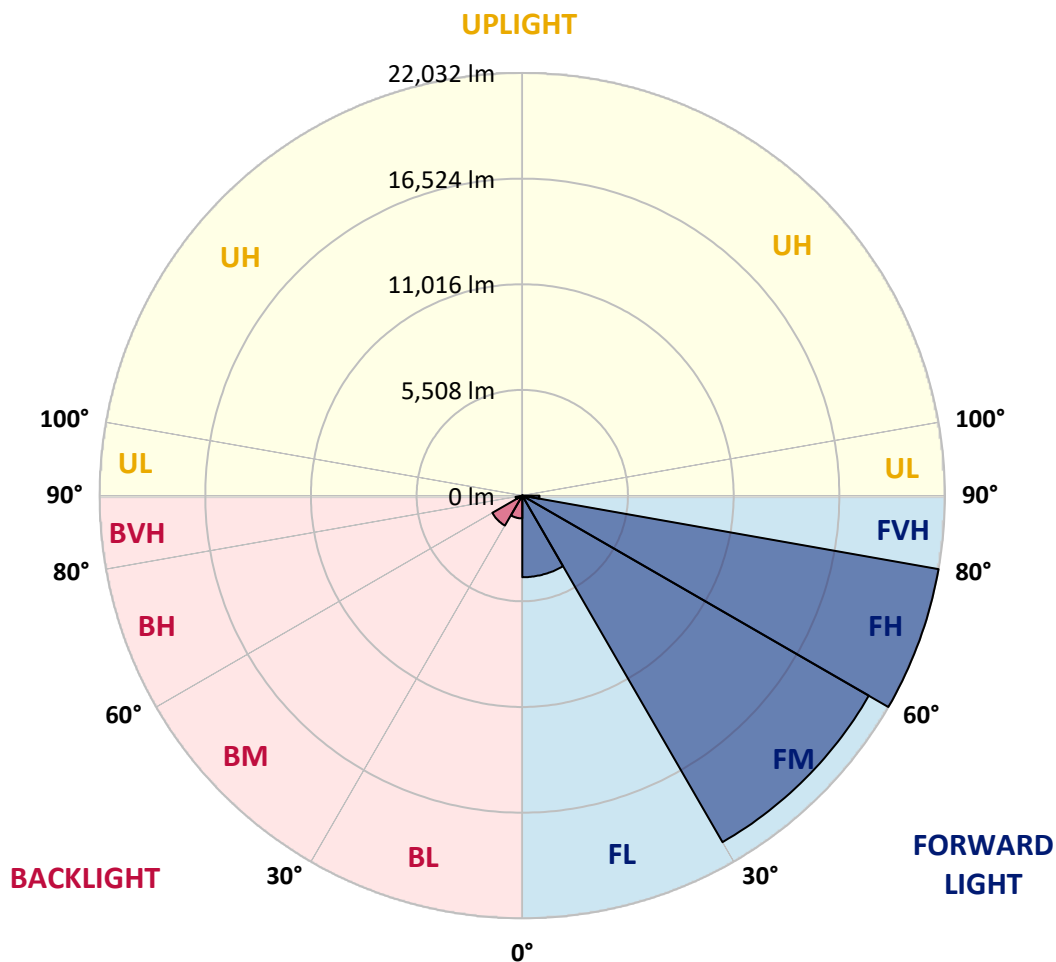
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 4251.8 | 8.3 | | | |
| FM | (30°-60°) | 20856.7 | 40.6 | | | |
| FH | (60°-80°) | 22031.8 | 42.9 | | | G5 |
| FVH | (80°-90°) | 893.3 | 1.7 | | | G5 |
| BL | (0°-30°) | 1186.4 | 2.3 | B3/2500 | | |
| BM | (30°-60°) | 1803.1 | 3.5 | B2/2500 | | |
| BH | (60°-80°) | 354.3 | 0.7 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 6.6 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8017.7 | 8017.7 | 8017.7 | 8017.7 | 8017.7 | 8017.7 | 8017.7 | 8017.7 | 8017.7 | 8017.7 | 8017.7 |
| 2.5° | 9264.2 | 9233.1 | 9191.7 | 9143.3 | 9005.2 | 8981.0 | 8898.2 | 8722.1 | 8511.4 | 8338.8 | 8100.5 |
| 5° | 9702.7 | 9720.0 | 9688.9 | 9602.6 | 9502.4 | 9443.7 | 9340.1 | 9067.4 | 8794.6 | 8445.8 | 8055.6 |
| 7.5° | 9802.8 | 9837.4 | 9799.4 | 9716.5 | 9619.8 | 9557.7 | 9474.8 | 9240.0 | 8922.3 | 8525.2 | 7990.0 |
| 10° | 9792.5 | 9833.9 | 9809.7 | 9733.8 | 9654.3 | 9595.6 | 9505.9 | 9319.4 | 9063.9 | 8646.1 | 8010.8 |
| 12.5° | 9775.2 | 9830.4 | 9827.0 | 9789.0 | 9723.4 | 9678.5 | 9623.3 | 9457.5 | 9219.3 | 8822.2 | 8124.7 |
| 15° | 9726.9 | 9795.9 | 9858.1 | 9889.1 | 9892.6 | 9892.6 | 9823.5 | 9647.4 | 9419.5 | 9053.5 | 8273.2 |
| 17.5° | 9747.6 | 9827.0 | 9982.4 | 10072.2 | 10134.3 | 10127.4 | 10054.9 | 9865.0 | 9612.9 | 9291.8 | 8428.6 |
| 20° | 9875.3 | 9982.4 | 10199.9 | 10379.5 | 10441.6 | 10420.9 | 10324.2 | 10103.2 | 9816.6 | 9495.5 | 8580.5 |
| 22.5° | 10189.5 | 10286.2 | 10559.0 | 10769.6 | 10814.5 | 10759.3 | 10621.2 | 10320.8 | 10061.8 | 9716.5 | 8763.5 |
| 25° | 10659.1 | 10773.1 | 11025.2 | 11184.0 | 11184.0 | 11152.9 | 10959.5 | 10607.4 | 10338.0 | 10023.8 | 9001.7 |
| 27.5° | 11228.9 | 11325.6 | 11574.2 | 11715.7 | 11632.9 | 11543.1 | 11349.7 | 10925.0 | 10666.1 | 10410.5 | 9288.3 |
| 30° | 11805.5 | 11867.7 | 12130.1 | 12192.2 | 12105.9 | 11992.0 | 11784.8 | 11360.1 | 11132.2 | 10935.4 | 9702.7 |
| 32.5° | 12351.1 | 12485.7 | 12703.3 | 12689.5 | 12572.1 | 12516.8 | 12326.9 | 11874.6 | 11746.8 | 11726.1 | 10282.8 |
| 35° | 12896.6 | 13000.2 | 13193.6 | 13241.9 | 13138.3 | 13128.0 | 12989.9 | 12654.9 | 12658.4 | 12793.0 | 11187.4 |
| 37.5° | 13366.2 | 13459.5 | 13687.4 | 13794.4 | 13815.1 | 13866.9 | 13811.7 | 13590.7 | 13904.9 | 14274.3 | 12385.6 |
| 40° | 13759.9 | 13891.1 | 14181.1 | 14367.6 | 14581.7 | 14771.6 | 14781.9 | 14830.3 | 15462.1 | 16097.5 | 13949.8 |
| 42.5° | 14067.2 | 14250.2 | 14671.4 | 15016.7 | 15507.0 | 15748.7 | 15942.1 | 16208.0 | 17271.5 | 18221.0 | 15793.6 |
| 45° | 14467.7 | 14678.3 | 15203.2 | 15745.3 | 16511.8 | 16908.9 | 17178.2 | 17889.5 | 19398.5 | 20693.3 | 17685.8 |
| 47.5° | 15130.7 | 15241.2 | 15776.4 | 16567.1 | 17575.3 | 18141.6 | 18666.5 | 19743.8 | 21680.8 | 22841.0 | 19260.4 |
| 50° | 15983.5 | 16056.1 | 16460.0 | 17558.1 | 18863.3 | 19609.1 | 20565.6 | 21832.8 | 24049.5 | 24622.7 | 20151.2 |
| 52.5° | 16926.2 | 16950.4 | 17254.2 | 18649.2 | 20306.6 | 21245.8 | 22316.2 | 23880.4 | 25979.7 | 25893.4 | 20741.7 |
| 55° | 18020.8 | 17986.2 | 18245.2 | 19833.5 | 22015.8 | 23089.6 | 24336.1 | 25976.3 | 27654.4 | 26794.6 | 21080.0 |
| 57.5° | 19274.2 | 19180.9 | 19433.0 | 21404.6 | 24204.9 | 25489.4 | 26756.6 | 27785.6 | 28952.7 | 27550.8 | 21242.3 |
| 60° | 20586.3 | 20399.8 | 20700.2 | 23169.1 | 26784.3 | 28003.1 | 29056.3 | 29332.5 | 30320.0 | 28151.6 | 20962.6 |
| 62.5° | 21632.5 | 21636.0 | 22195.3 | 25047.4 | 29436.1 | 30503.0 | 31062.4 | 31311.0 | 31497.5 | 28020.4 | 19491.7 |
| 65° | 23265.7 | 23321.0 | 24215.3 | 27654.4 | 32505.7 | 33431.1 | 33814.4 | 33006.4 | 31549.3 | 26390.6 | 17281.8 |
| 67.5° | 24950.8 | 25126.9 | 26763.5 | 31245.4 | 36051.9 | 36797.7 | 36303.9 | 33334.4 | 30140.5 | 22671.8 | 13103.8 |
| 70° | 25499.8 | 25789.8 | 28486.5 | 33717.7 | 38178.9 | 38565.6 | 36894.4 | 31804.8 | 25195.9 | 15158.3 | 6595.1 |
| 72.5° | 23365.9 | 23835.5 | 27495.6 | 32816.5 | 36821.9 | 36486.9 | 33009.9 | 26673.8 | 16018.1 | 5756.0 | 2013.0 |
| 75° | 16477.3 | 16684.5 | 22851.4 | 27222.8 | 29615.6 | 28666.1 | 25109.6 | 17195.5 | 6588.2 | 1616.0 | 690.6 |
| 77.5° | 8508.0 | 8407.8 | 13590.7 | 18062.2 | 21121.5 | 20137.4 | 16442.8 | 8901.6 | 2496.5 | 673.3 | 428.2 |
| 80° | 4399.0 | 4471.5 | 5880.3 | 9464.4 | 12893.2 | 11864.2 | 8766.9 | 4126.2 | 1329.4 | 372.9 | 328.0 |
| 82.5° | 2465.4 | 2313.5 | 3380.4 | 4133.1 | 6028.8 | 4727.0 | 3363.1 | 2921.2 | 580.1 | 224.4 | 310.8 |
| 85° | 448.9 | 469.6 | 1854.2 | 2234.0 | 2092.5 | 1329.4 | 1084.2 | 1950.9 | 169.2 | 124.3 | 217.5 |
| 87.5° | 6.9 | 6.9 | 359.1 | 642.2 | 407.4 | 186.5 | 341.8 | 279.7 | 34.5 | 48.3 | 38.0 |
| 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° | 8017.7 | 8017.7 | 8017.7 | 8017.7 | 8017.7 | 8017.7 | 8017.7 | 8017.7 | 8017.7 | 8017.7 | 8017.7 |
| 2.5° | 7979.7 | 7848.5 | 7603.3 | 7361.6 | 7054.3 | 6802.2 | 6633.0 | 6456.9 | 6277.4 | 6291.2 | 6332.6 |
| 5° | 7841.6 | 7613.7 | 7130.3 | 6619.2 | 6128.9 | 5686.9 | 5251.9 | 4861.7 | 4702.9 | 4557.8 | 4564.8 |
| 7.5° | 7703.5 | 7382.3 | 6674.5 | 5873.4 | 5131.0 | 4378.3 | 3832.7 | 3383.9 | 3145.6 | 2966.1 | 2914.3 |
| 10° | 7641.3 | 7216.6 | 6256.7 | 5155.2 | 4102.1 | 3280.3 | 2579.3 | 2213.3 | 1930.2 | 1840.4 | 1864.6 |
| 12.5° | 7668.9 | 7133.7 | 5880.3 | 4506.1 | 3252.6 | 2285.8 | 1795.5 | 1609.1 | 1546.9 | 1536.5 | 1529.6 |
| 15° | 7720.7 | 7075.0 | 5510.9 | 3787.8 | 2389.4 | 1698.8 | 1508.9 | 1474.4 | 1467.5 | 1460.6 | 1464.0 |
| 17.5° | 7789.8 | 7023.2 | 5117.2 | 3114.5 | 1833.5 | 1484.8 | 1429.5 | 1412.2 | 1408.8 | 1408.8 | 1408.8 |
| 20° | 7858.8 | 6964.5 | 4678.7 | 2513.7 | 1529.6 | 1401.9 | 1367.4 | 1357.0 | 1353.5 | 1353.5 | 1350.1 |
| 22.5° | 7938.2 | 6912.7 | 4233.3 | 1975.1 | 1408.8 | 1343.2 | 1312.1 | 1305.2 | 1301.7 | 1298.3 | 1298.3 |
| 25° | 8052.2 | 6847.1 | 3760.2 | 1616.0 | 1332.8 | 1287.9 | 1256.9 | 1250.0 | 1246.5 | 1232.7 | 1236.1 |
| 27.5° | 8204.1 | 6798.8 | 3273.4 | 1395.0 | 1263.8 | 1218.9 | 1198.2 | 1187.8 | 1180.9 | 1170.5 | 1174.0 |
| 30° | 8411.3 | 6757.4 | 2755.4 | 1274.1 | 1184.3 | 1146.4 | 1125.6 | 1118.7 | 1111.8 | 1101.5 | 1101.5 |
| 32.5° | 8770.4 | 6774.6 | 2209.9 | 1177.4 | 1111.8 | 1067.0 | 1046.2 | 1039.3 | 1032.4 | 1022.1 | 1022.1 |
| 35° | 9309.1 | 6874.8 | 1767.9 | 1094.6 | 1025.5 | 980.6 | 959.9 | 959.9 | 949.6 | 935.7 | 932.3 |
| 37.5° | 10189.5 | 7130.3 | 1419.1 | 1015.2 | 942.6 | 901.2 | 877.0 | 870.1 | 859.8 | 839.1 | 835.6 |
| 40° | 11228.9 | 7527.4 | 1194.7 | 935.7 | 866.7 | 825.2 | 804.5 | 783.8 | 756.2 | 735.5 | 732.0 |
| 42.5° | 12534.1 | 7934.8 | 1035.9 | 856.3 | 794.2 | 756.2 | 732.0 | 697.5 | 656.1 | 628.4 | 625.0 |
| 45° | 13894.5 | 8307.7 | 928.8 | 783.8 | 725.1 | 694.0 | 666.4 | 611.2 | 559.4 | 524.8 | 521.4 |
| 47.5° | 14909.7 | 8376.8 | 842.5 | 714.8 | 666.4 | 635.3 | 597.4 | 528.3 | 459.2 | 428.2 | 417.8 |
| 50° | 15389.6 | 8041.8 | 752.7 | 645.7 | 607.7 | 573.2 | 524.8 | 445.4 | 369.5 | 331.5 | 324.6 |
| 52.5° | 15558.8 | 7461.7 | 680.2 | 583.5 | 549.0 | 507.6 | 448.9 | 359.1 | 290.0 | 252.1 | 248.6 |
| 55° | 15489.8 | 6729.7 | 614.6 | 524.8 | 480.0 | 431.6 | 372.9 | 286.6 | 214.1 | 183.0 | 176.1 |
| 57.5° | 15127.2 | 5797.4 | 549.0 | 466.1 | 410.9 | 362.6 | 297.0 | 214.1 | 145.0 | 117.4 | 113.9 |
| 60° | 14150.0 | 4526.8 | 483.4 | 400.5 | 348.7 | 297.0 | 234.8 | 151.9 | 89.8 | 65.6 | 65.6 |
| 62.5° | 12499.5 | 3359.7 | 421.3 | 334.9 | 293.5 | 238.3 | 165.7 | 96.7 | 48.3 | 34.5 | 31.1 |
| 65° | 10445.1 | 2479.2 | 352.2 | 283.1 | 245.2 | 186.5 | 117.4 | 58.7 | 24.2 | 10.4 | 6.9 |
| 67.5° | 7289.1 | 1529.6 | 293.5 | 231.3 | 200.3 | 134.7 | 72.5 | 24.2 | 10.4 | 0.0 | 0.0 |
| 70° | 3311.3 | 728.6 | 224.4 | 176.1 | 151.9 | 96.7 | 38.0 | 13.8 | 6.9 | 0.0 | 0.0 |
| 72.5° | 1029.0 | 383.3 | 158.8 | 127.8 | 103.6 | 62.2 | 20.7 | 10.4 | 6.9 | 0.0 | 0.0 |
| 75° | 476.5 | 245.2 | 100.1 | 69.1 | 58.7 | 31.1 | 13.8 | 6.9 | 3.5 | 0.0 | 0.0 |
| 77.5° | 355.7 | 189.9 | 58.7 | 38.0 | 31.1 | 20.7 | 10.4 | 6.9 | 3.5 | 0.0 | 0.0 |
| 80° | 310.8 | 96.7 | 34.5 | 24.2 | 17.3 | 13.8 | 6.9 | 3.5 | 0.0 | 0.0 | 0.0 |
| 82.5° | 279.7 | 48.3 | 20.7 | 13.8 | 10.4 | 6.9 | 3.5 | 3.5 | 0.0 | 0.0 | 0.0 |
| 85° | 151.9 | 27.6 | 13.8 | 10.4 | 6.9 | 3.5 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 27.6 | 13.8 | 10.4 | 6.9 | 6.9 | 3.5 | 3.5 | 3.5 | 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 |

(END OF REPORT)