

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: P450280

Luminaire Tested: **GALN-SA1A-750-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-750-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3791 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

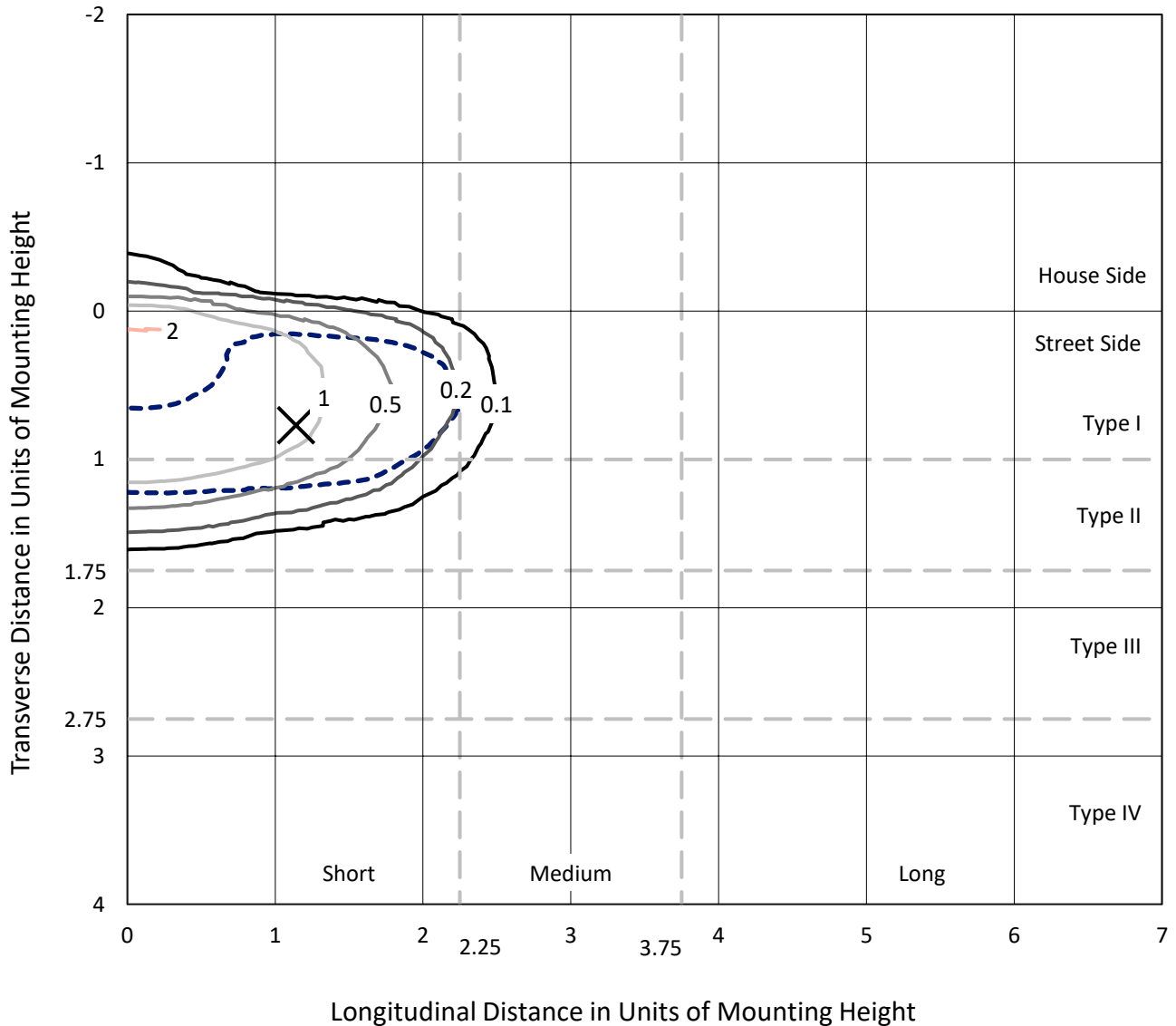
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

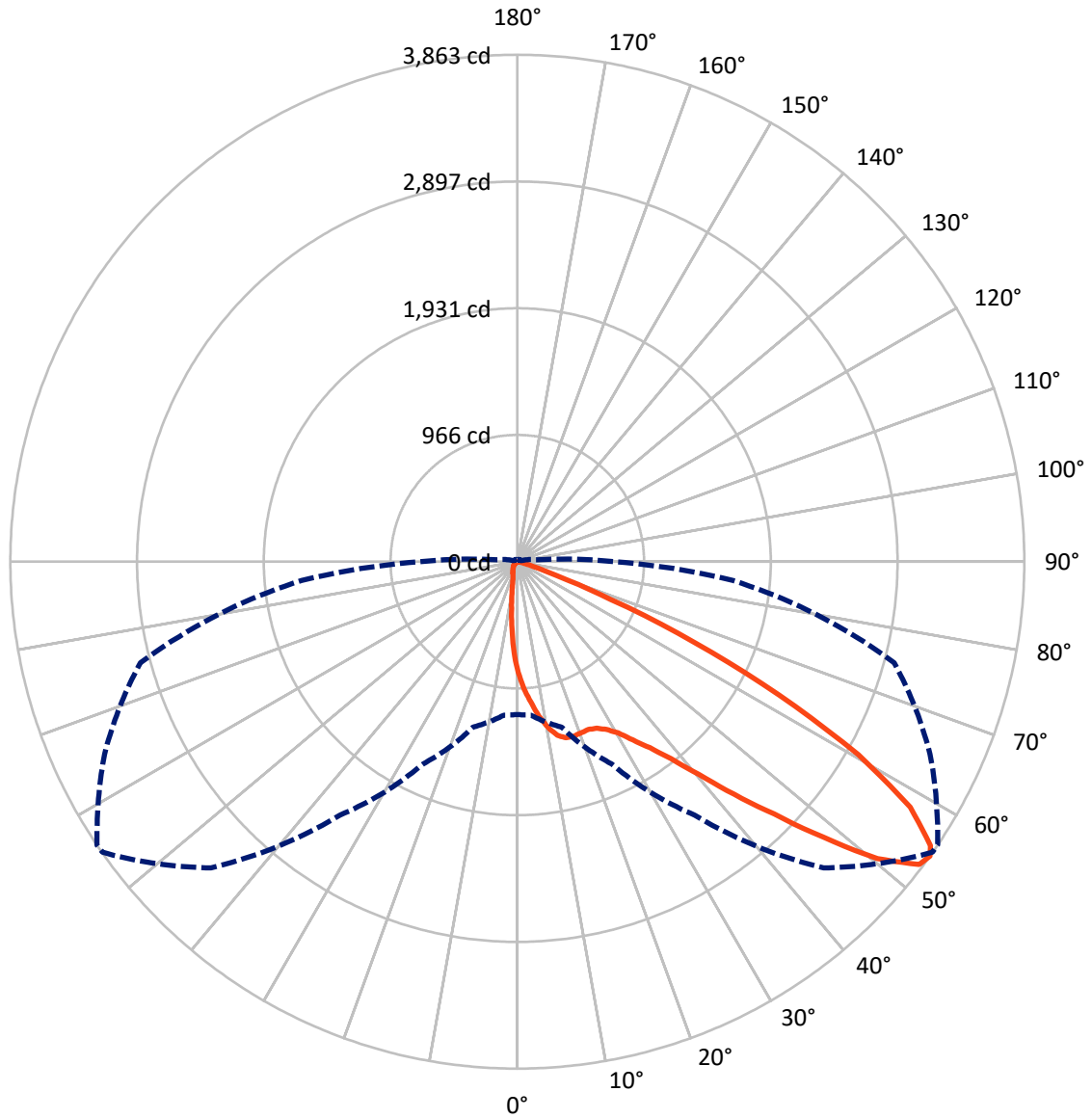
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 179.3 | 0.0 | 179.3 |
| | % Fixture | 4.7 | 0.0 | 4.7 |
| Street Side | Lumens | 3611.7 | 0.0 | 3611.7 |
| | % Fixture | 95.3 | 0.0 | 95.3 |
| Total | Lumens | 3791.0 | 0.0 | 3791.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 74.4 | 2.0 |
| 10°-20° | 201.2 | 5.3 |
| 20°-30° | 348.5 | 9.2 |
| 30°-40° | 601.5 | 15.9 |
| 40°-50° | 1023.8 | 27.0 |
| 50°-60° | 1013.2 | 26.7 |
| 60°-70° | 462.4 | 12.2 |
| 70°-80° | 59.4 | 1.6 |
| 80°-90° | 6.7 | 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° | 3791.0 | 100.0 |
| 0°-180° | 3791.0 | 100.0 |

Coefficient of Utilization

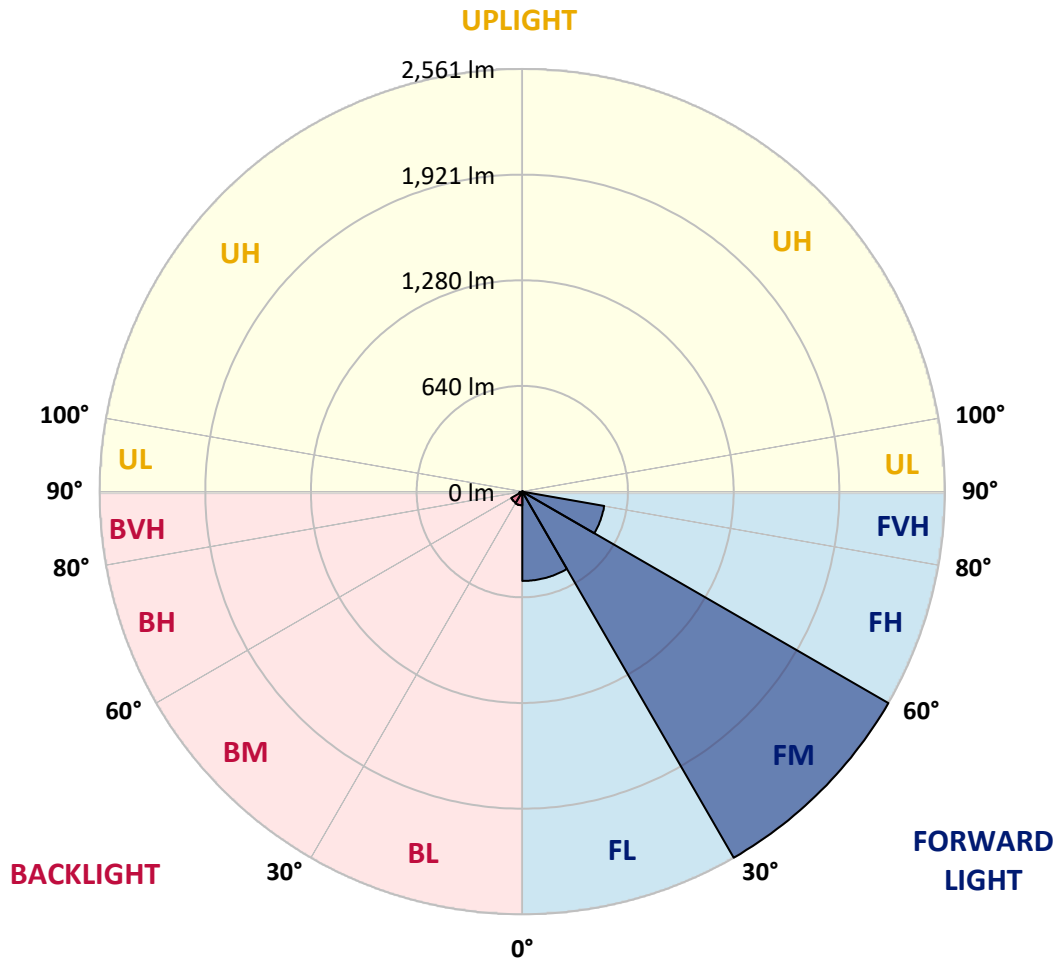


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 541.2 | 14.3 | | | |
| FM (30°-60°) | 2560.7 | 67.5 | | | |
| FH (60°-80°) | 503.9 | 13.3 | | | G0/660 |
| FVH (80°-90°) | 6.0 | 0.2 | | | G0/10 |
| BL (0°-30°) | 82.9 | 2.2 | B0/110 | | |
| BM (30°-60°) | 77.7 | 2.0 | B0/220 | | |
| BH (60°-80°) | 18.0 | 0.5 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.7 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 |
| 2.5° | 1070.4 | 1063.0 | 1052.8 | 1044.8 | 1026.1 | 999.3 | 970.9 | 970.9 | 943.5 | 905.4 | 866.5 |
| 5° | 1234.6 | 1229.7 | 1219.8 | 1199.3 | 1178.3 | 1140.7 | 1083.7 | 1073.7 | 1024.9 | 955.8 | 883.2 |
| 7.5° | 1301.4 | 1303.7 | 1304.2 | 1298.8 | 1288.8 | 1251.7 | 1195.2 | 1188.3 | 1110.3 | 1017.7 | 904.9 |
| 10° | 1237.4 | 1248.7 | 1259.7 | 1281.9 | 1313.4 | 1322.3 | 1290.4 | 1283.2 | 1206.5 | 1080.4 | 928.4 |
| 12.5° | 1142.3 | 1148.4 | 1154.5 | 1189.6 | 1252.8 | 1325.1 | 1358.7 | 1358.4 | 1293.4 | 1142.8 | 958.4 |
| 15° | 1098.0 | 1103.4 | 1103.9 | 1119.5 | 1174.2 | 1279.6 | 1387.8 | 1391.6 | 1378.3 | 1219.8 | 990.6 |
| 17.5° | 1107.2 | 1111.6 | 1108.0 | 1111.8 | 1140.5 | 1229.5 | 1384.5 | 1397.3 | 1447.1 | 1293.7 | 1019.8 |
| 20° | 1167.3 | 1175.8 | 1162.0 | 1151.2 | 1159.9 | 1216.2 | 1373.2 | 1391.1 | 1495.7 | 1365.8 | 1046.4 |
| 22.5° | 1275.3 | 1279.9 | 1262.5 | 1233.1 | 1217.7 | 1244.1 | 1370.2 | 1387.8 | 1537.2 | 1424.9 | 1061.7 |
| 25° | 1395.2 | 1393.7 | 1374.5 | 1341.5 | 1309.3 | 1300.3 | 1390.4 | 1406.2 | 1571.5 | 1478.1 | 1066.3 |
| 27.5° | 1515.2 | 1519.8 | 1487.6 | 1446.6 | 1408.0 | 1384.7 | 1435.6 | 1447.4 | 1610.1 | 1538.7 | 1071.9 |
| 30° | 1654.6 | 1647.2 | 1615.4 | 1568.6 | 1524.4 | 1491.9 | 1508.5 | 1511.9 | 1663.3 | 1619.0 | 1086.8 |
| 32.5° | 1835.9 | 1815.5 | 1779.9 | 1698.1 | 1666.3 | 1611.4 | 1615.4 | 1619.5 | 1728.0 | 1698.6 | 1104.7 |
| 35° | 2082.0 | 2080.9 | 2011.4 | 1901.1 | 1823.9 | 1755.6 | 1737.7 | 1741.0 | 1825.9 | 1816.7 | 1144.3 |
| 37.5° | 2378.2 | 2382.2 | 2303.0 | 2192.0 | 2049.7 | 1941.3 | 1904.5 | 1905.0 | 1974.8 | 1979.9 | 1204.7 |
| 40° | 2619.3 | 2630.1 | 2582.8 | 2507.8 | 2367.4 | 2197.8 | 2135.9 | 2130.3 | 2184.0 | 2177.6 | 1290.9 |
| 42.5° | 2723.2 | 2733.2 | 2750.8 | 2776.9 | 2699.7 | 2559.7 | 2413.7 | 2421.4 | 2437.7 | 2393.0 | 1387.6 |
| 45° | 2672.3 | 2688.1 | 2757.5 | 2918.6 | 2991.2 | 2944.2 | 2770.0 | 2743.1 | 2673.8 | 2627.0 | 1484.7 |
| 47.5° | 2460.3 | 2498.9 | 2614.7 | 2883.0 | 3137.3 | 3296.4 | 3172.1 | 3136.5 | 2910.2 | 2797.9 | 1546.6 |
| 50° | 2111.6 | 2113.9 | 2275.3 | 2618.3 | 3061.6 | 3518.6 | 3582.6 | 3556.0 | 3130.4 | 2893.8 | 1577.8 |
| 52.5° | 1530.8 | 1581.2 | 1729.0 | 2126.2 | 2733.7 | 3484.9 | 3844.2 | 3833.2 | 3357.5 | 2942.9 | 1622.9 |
| 54° | 1163.8 | 1173.5 | 1304.9 | 1699.1 | 2356.9 | 3299.4 | 3860.3 | 3862.9 | 3470.3 | 2972.6 | 1649.5 |
| 55° | 954.0 | 930.7 | 1068.9 | 1447.4 | 2099.9 | 3135.5 | 3807.7 | 3819.9 | 3520.9 | 2987.9 | 1669.2 |
| 57.5° | 452.2 | 452.5 | 558.1 | 763.5 | 1315.2 | 2434.7 | 3485.6 | 3529.1 | 3526.6 | 3014.3 | 1729.8 |
| 60° | 228.9 | 230.4 | 253.7 | 352.5 | 649.7 | 1618.5 | 2882.0 | 2985.6 | 3255.2 | 3018.1 | 1749.7 |
| 62.5° | 160.1 | 158.3 | 154.5 | 169.6 | 273.4 | 822.6 | 2145.7 | 2235.7 | 2765.6 | 2872.0 | 1686.3 |
| 65° | 137.1 | 133.3 | 122.5 | 120.2 | 138.1 | 327.6 | 1336.4 | 1483.2 | 2111.6 | 2486.9 | 1505.7 |
| 67.5° | 117.1 | 115.6 | 105.9 | 100.0 | 97.7 | 142.7 | 689.6 | 766.8 | 1443.3 | 1787.6 | 1140.5 |
| 70° | 99.5 | 98.7 | 92.8 | 85.4 | 79.0 | 85.4 | 255.8 | 316.9 | 804.4 | 962.5 | 538.1 |
| 72.5° | 80.8 | 81.6 | 82.6 | 73.2 | 66.5 | 60.6 | 109.2 | 127.1 | 336.6 | 344.0 | 188.2 |
| 75° | 70.8 | 70.1 | 70.1 | 63.7 | 55.5 | 45.0 | 60.1 | 64.7 | 103.1 | 95.7 | 43.7 |
| 77.5° | 49.9 | 48.1 | 56.3 | 52.4 | 46.3 | 32.0 | 34.3 | 36.3 | 42.7 | 36.6 | 20.5 |
| 80° | 34.5 | 34.5 | 36.1 | 47.1 | 41.7 | 23.3 | 21.0 | 22.5 | 25.3 | 21.7 | 11.8 |
| 82.5° | 19.4 | 20.0 | 23.5 | 25.1 | 24.3 | 15.6 | 13.8 | 14.1 | 16.9 | 14.8 | 7.4 |
| 85° | 2.3 | 3.8 | 13.6 | 13.3 | 10.0 | 6.9 | 7.7 | 7.9 | 10.5 | 9.2 | 4.3 |
| 87.5° | 0.3 | 0.5 | 2.8 | 3.6 | 2.6 | 2.8 | 2.8 | 2.8 | 3.6 | 4.1 | 3.1 |
| 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° | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 |
| 2.5° | 845.6 | 826.1 | 779.8 | 726.1 | 691.9 | 636.1 | 589.0 | 555.0 | 546.6 | 530.2 | 535.1 |
| 5° | 844.6 | 804.1 | 709.8 | 610.0 | 503.6 | 424.3 | 365.2 | 318.7 | 298.2 | 284.7 | 275.2 |
| 7.5° | 845.1 | 781.9 | 630.5 | 471.6 | 344.5 | 266.8 | 212.0 | 183.6 | 164.7 | 156.8 | 157.8 |
| 10° | 846.6 | 756.8 | 538.4 | 349.4 | 232.5 | 172.4 | 138.9 | 125.3 | 118.9 | 117.9 | 117.7 |
| 12.5° | 850.2 | 729.5 | 450.4 | 259.4 | 162.7 | 125.3 | 112.5 | 107.9 | 105.9 | 105.9 | 105.1 |
| 15° | 854.0 | 699.3 | 377.3 | 192.9 | 125.3 | 107.7 | 101.8 | 99.5 | 98.2 | 98.2 | 98.0 |
| 17.5° | 854.0 | 664.5 | 309.0 | 149.6 | 107.9 | 99.0 | 94.4 | 91.3 | 90.3 | 90.3 | 90.0 |
| 20° | 848.6 | 624.1 | 248.4 | 120.5 | 98.0 | 90.8 | 86.2 | 82.9 | 81.6 | 81.1 | 80.8 |
| 22.5° | 830.0 | 570.1 | 197.7 | 103.6 | 89.8 | 83.6 | 77.8 | 73.9 | 72.9 | 72.4 | 72.6 |
| 25° | 796.7 | 509.2 | 156.5 | 91.1 | 82.4 | 74.9 | 69.8 | 67.0 | 66.0 | 66.0 | 66.2 |
| 27.5° | 762.5 | 445.6 | 124.0 | 81.6 | 73.4 | 66.8 | 62.7 | 60.9 | 60.6 | 61.4 | 61.6 |
| 30° | 730.7 | 381.6 | 100.5 | 73.9 | 65.5 | 59.9 | 57.0 | 56.5 | 56.5 | 56.8 | 57.0 |
| 32.5° | 695.4 | 325.6 | 84.1 | 67.3 | 59.1 | 54.2 | 52.7 | 52.7 | 53.2 | 53.2 | 53.7 |
| 35° | 673.2 | 277.5 | 73.9 | 60.9 | 54.2 | 50.1 | 49.1 | 49.4 | 50.1 | 51.2 | 51.7 |
| 37.5° | 661.2 | 239.1 | 67.3 | 55.8 | 49.6 | 46.8 | 45.8 | 46.3 | 48.1 | 49.9 | 50.1 |
| 40° | 662.2 | 210.2 | 61.9 | 51.4 | 46.0 | 43.0 | 42.2 | 43.7 | 45.5 | 47.3 | 47.6 |
| 42.5° | 673.4 | 188.8 | 56.8 | 46.3 | 43.0 | 38.6 | 38.4 | 39.9 | 40.7 | 42.5 | 42.7 |
| 45° | 686.7 | 173.2 | 51.4 | 40.9 | 37.3 | 33.5 | 33.8 | 35.0 | 36.1 | 38.9 | 39.4 |
| 47.5° | 690.8 | 162.4 | 45.3 | 34.8 | 30.7 | 29.4 | 29.7 | 30.4 | 32.5 | 35.0 | 35.3 |
| 50° | 695.4 | 155.8 | 39.4 | 29.4 | 26.1 | 25.8 | 26.1 | 26.6 | 27.9 | 28.9 | 28.6 |
| 52.5° | 715.1 | 155.5 | 34.5 | 25.6 | 22.3 | 22.8 | 23.0 | 22.8 | 21.7 | 20.2 | 19.7 |
| 54° | 733.5 | 156.3 | 32.2 | 23.8 | 20.5 | 21.2 | 21.0 | 19.7 | 17.1 | 15.6 | 14.8 |
| 55° | 748.4 | 157.0 | 30.9 | 22.5 | 19.4 | 19.7 | 20.0 | 17.4 | 14.1 | 12.5 | 12.0 |
| 57.5° | 777.5 | 155.3 | 27.9 | 19.7 | 17.1 | 16.1 | 15.9 | 11.5 | 7.7 | 6.7 | 6.1 |
| 60° | 763.0 | 140.2 | 25.3 | 16.9 | 14.6 | 13.0 | 10.7 | 6.4 | 3.8 | 2.8 | 2.8 |
| 62.5° | 705.7 | 118.9 | 22.5 | 13.8 | 12.0 | 10.0 | 5.6 | 3.6 | 1.8 | 1.0 | 0.8 |
| 65° | 631.2 | 100.0 | 20.2 | 11.0 | 9.5 | 6.4 | 3.1 | 2.3 | 0.8 | 0.0 | 0.0 |
| 67.5° | 469.3 | 74.2 | 17.1 | 8.7 | 7.2 | 4.1 | 2.0 | 1.3 | 0.3 | 0.0 | 0.0 |
| 70° | 217.4 | 45.3 | 14.6 | 6.7 | 5.1 | 3.1 | 1.5 | 0.8 | 0.0 | 0.0 | 0.0 |
| 72.5° | 62.4 | 28.4 | 12.0 | 4.9 | 3.6 | 2.6 | 1.3 | 0.5 | 0.3 | 0.0 | 0.0 |
| 75° | 21.7 | 22.8 | 9.0 | 3.6 | 2.8 | 1.8 | 1.0 | 0.5 | 0.3 | 0.0 | 0.0 |
| 77.5° | 13.0 | 18.4 | 5.6 | 3.1 | 2.3 | 1.5 | 1.0 | 0.5 | 0.3 | 0.3 | 0.0 |
| 80° | 7.4 | 12.3 | 3.6 | 2.6 | 2.0 | 1.3 | 0.8 | 0.5 | 0.3 | 0.3 | 0.0 |
| 82.5° | 4.1 | 5.9 | 2.8 | 2.3 | 1.8 | 1.3 | 0.8 | 0.5 | 0.3 | 0.3 | 0.3 |
| 85° | 3.3 | 3.1 | 2.3 | 2.0 | 1.5 | 1.0 | 0.8 | 0.3 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.6 | 2.0 | 2.0 | 2.0 | 1.5 | 1.0 | 0.8 | 0.3 | 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)