

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: P458675

Luminaire Tested: **GALN-SA2B-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458675
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-SA2B-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA 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: 7969 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

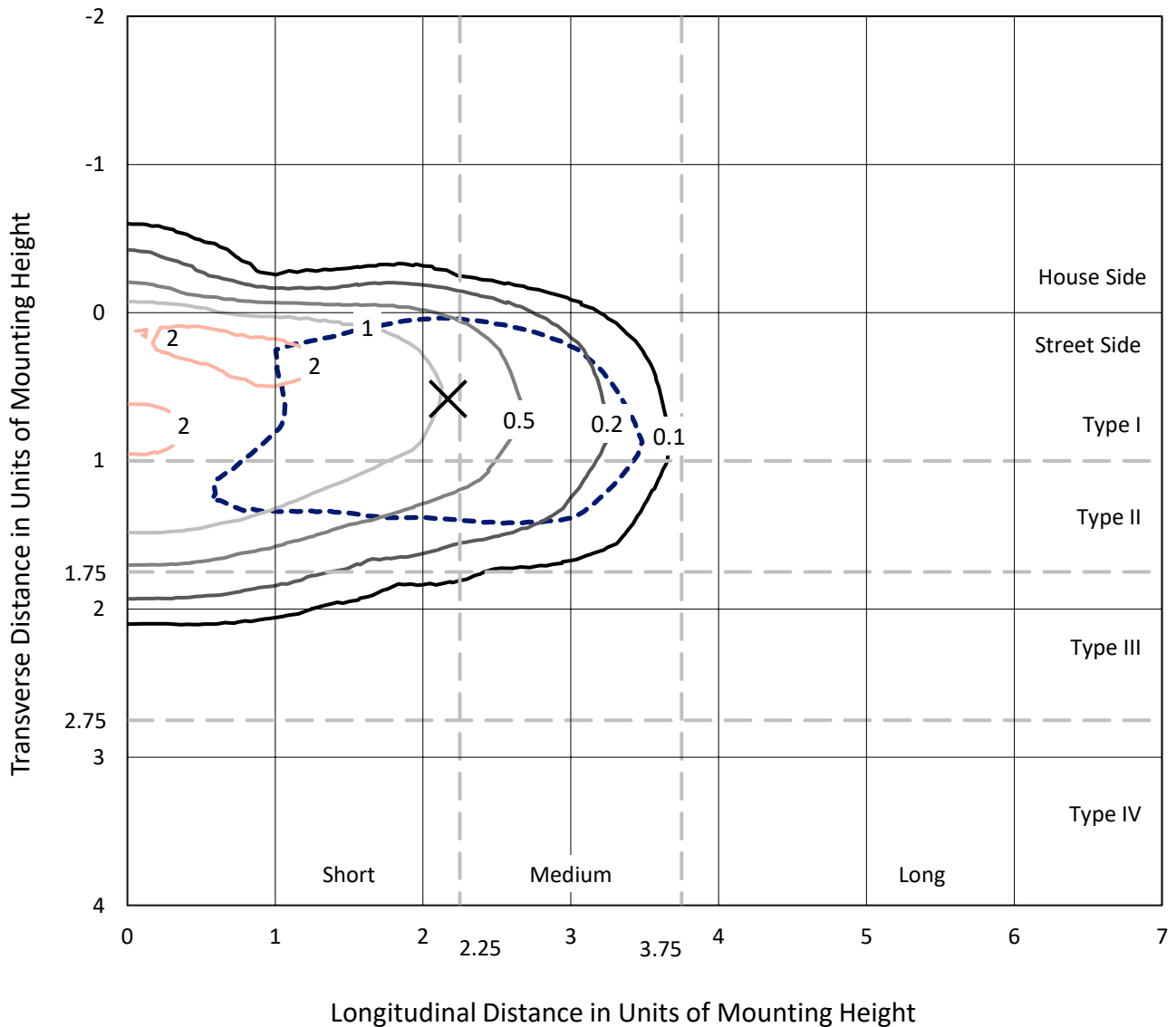
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

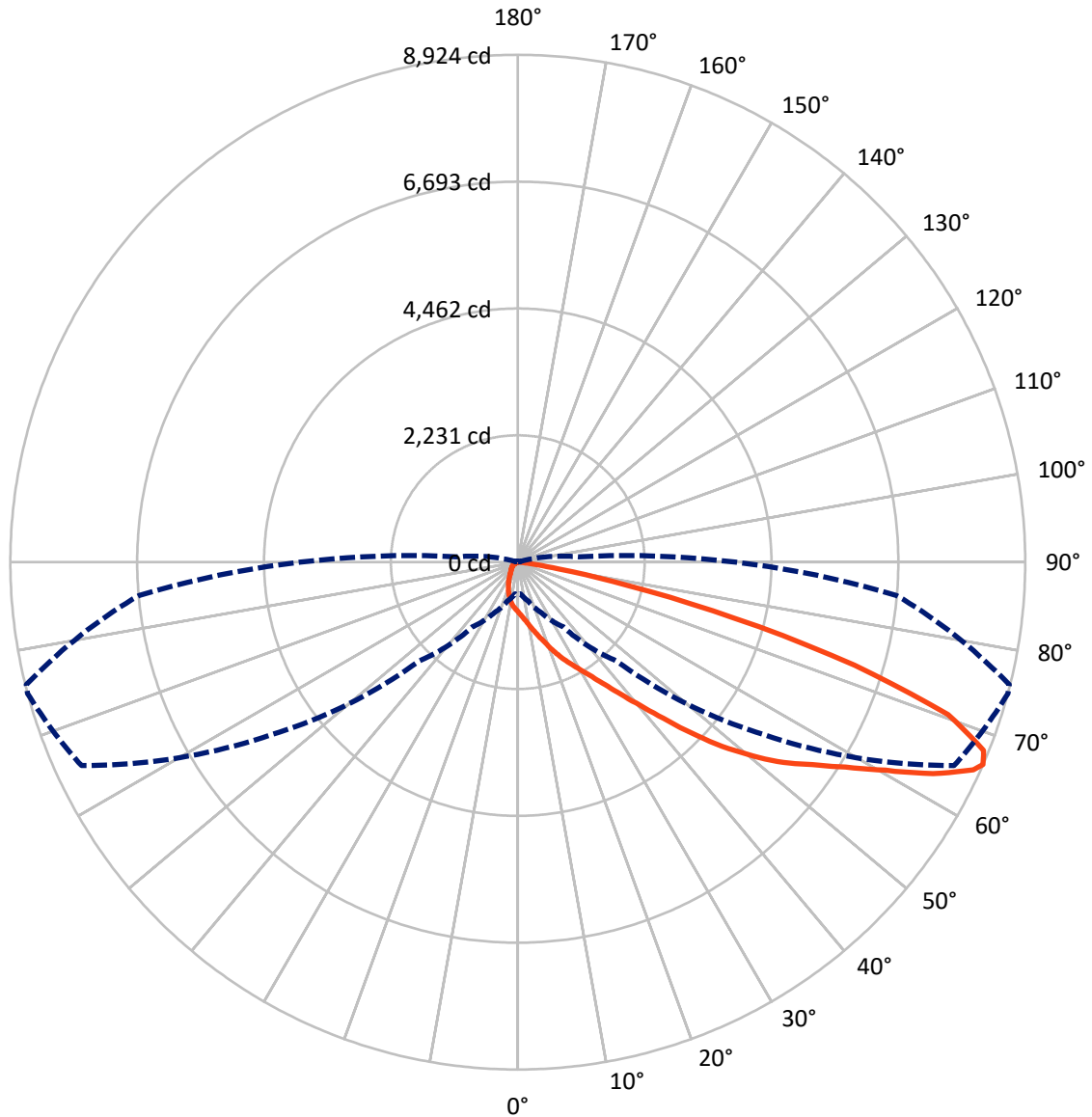
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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 | 492.0 | 0.0 | 492.0 |
| | % Fixture | 6.2 | 0.0 | 6.2 |
| Street Side | Lumens | 7477.0 | 0.0 | 7477.0 |
| | % Fixture | 93.8 | 0.0 | 93.8 |
| Total | Lumens | 7969.0 | 0.0 | 7969.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 84.1 | 1.1 |
| 10°-20° | 247.4 | 3.1 |
| 20°-30° | 427.2 | 5.4 |
| 30°-40° | 770.5 | 9.7 |
| 40°-50° | 1392.0 | 17.5 |
| 50°-60° | 2170.1 | 27.2 |
| 60°-70° | 2061.5 | 25.9 |
| 70°-80° | 772.6 | 9.7 |
| 80°-90° | 43.6 | 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° | 7969.0 | 100.0 |
| 0°-180° | 7969.0 | 100.0 |

Coefficient of Utilization



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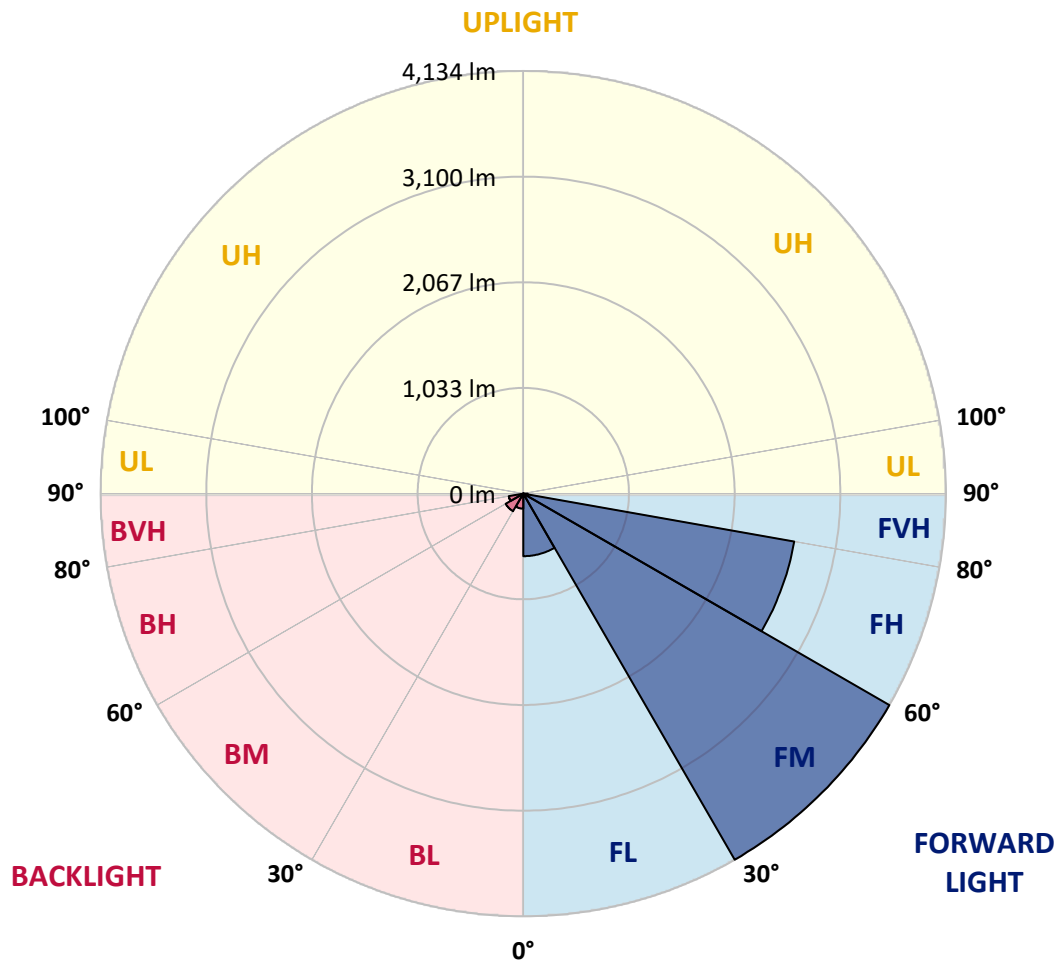
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 611.7 | 7.7 | | | |
| FM (30°-60°) | 4133.5 | 51.9 | | | |
| FH (60°-80°) | 2690.5 | 33.8 | | | G2/5000 |
| FVH (80°-90°) | 41.3 | 0.5 | | | G1/100 |
| BL (0°-30°) | 146.9 | 1.8 | B1/500 | | |
| BM (30°-60°) | 199.1 | 2.5 | B0/220 | | |
| BH (60°-80°) | 143.7 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.3 | 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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 871.5 | 871.5 | 871.5 | 871.5 | 871.5 | 871.5 | 871.5 | 871.5 | 871.5 | 871.5 | 871.5 |
| 2.5° | 1041.2 | 1028.2 | 1032.4 | 1026.5 | 1012.9 | 992.9 | 975.2 | 949.9 | 924.5 | 920.4 | 892.1 |
| 5° | 1178.5 | 1174.9 | 1170.2 | 1153.1 | 1143.7 | 1113.1 | 1076.5 | 1032.9 | 980.5 | 971.1 | 919.8 |
| 7.5° | 1272.2 | 1270.4 | 1272.8 | 1263.9 | 1255.7 | 1228.0 | 1189.1 | 1129.6 | 1048.3 | 1043.0 | 957.5 |
| 10° | 1302.8 | 1307.5 | 1316.4 | 1330.5 | 1343.5 | 1334.6 | 1305.2 | 1230.9 | 1136.1 | 1120.7 | 1000.5 |
| 12.5° | 1285.1 | 1290.4 | 1311.7 | 1349.4 | 1391.2 | 1415.4 | 1403.6 | 1349.4 | 1229.2 | 1216.8 | 1048.9 |
| 15° | 1239.8 | 1246.2 | 1276.3 | 1334.6 | 1409.5 | 1477.8 | 1507.3 | 1468.4 | 1337.6 | 1317.5 | 1107.2 |
| 17.5° | 1172.6 | 1182.0 | 1225.0 | 1302.2 | 1404.8 | 1522.6 | 1605.7 | 1592.7 | 1453.1 | 1434.2 | 1170.8 |
| 20° | 1121.9 | 1129.0 | 1165.5 | 1253.9 | 1384.7 | 1547.3 | 1699.4 | 1735.9 | 1595.7 | 1563.3 | 1245.7 |
| 22.5° | 1155.5 | 1157.9 | 1170.2 | 1223.3 | 1348.8 | 1553.8 | 1781.9 | 1885.0 | 1747.1 | 1718.2 | 1323.4 |
| 25° | 1319.9 | 1296.3 | 1284.0 | 1272.2 | 1341.1 | 1547.9 | 1856.7 | 2040.5 | 1897.9 | 1867.3 | 1400.6 |
| 27.5° | 1579.2 | 1568.6 | 1506.1 | 1422.4 | 1406.5 | 1555.6 | 1906.2 | 2187.9 | 2040.0 | 2007.0 | 1476.1 |
| 30° | 1861.4 | 1843.1 | 1804.8 | 1682.3 | 1559.1 | 1609.8 | 1942.1 | 2331.0 | 2207.9 | 2164.3 | 1545.0 |
| 32.5° | 2120.7 | 2132.5 | 2075.3 | 1949.2 | 1806.6 | 1725.3 | 1988.7 | 2487.2 | 2400.6 | 2346.4 | 1625.1 |
| 35° | 2423.0 | 2446.5 | 2358.7 | 2237.9 | 2071.2 | 1933.9 | 2079.4 | 2663.4 | 2645.1 | 2576.8 | 1748.9 |
| 37.5° | 2730.0 | 2744.1 | 2690.5 | 2520.8 | 2370.5 | 2199.1 | 2250.3 | 2880.8 | 2946.2 | 2887.9 | 1896.8 |
| 40° | 2988.0 | 3007.5 | 2968.0 | 2817.2 | 2656.9 | 2506.0 | 2498.4 | 3117.7 | 3304.5 | 3244.4 | 2117.1 |
| 42.5° | 3185.4 | 3200.2 | 3201.4 | 3094.7 | 2950.3 | 2882.0 | 2814.8 | 3420.0 | 3753.5 | 3683.9 | 2372.9 |
| 45° | 3434.7 | 3455.9 | 3443.5 | 3371.1 | 3263.2 | 3250.8 | 3216.1 | 3785.3 | 4290.9 | 4203.1 | 2704.6 |
| 47.5° | 3820.1 | 3834.2 | 3803.6 | 3718.1 | 3608.5 | 3628.0 | 3607.3 | 4194.8 | 4838.9 | 4763.4 | 3048.1 |
| 50° | 4087.6 | 4111.1 | 4154.7 | 4188.9 | 4109.4 | 4037.5 | 3976.2 | 4577.2 | 5359.2 | 5291.4 | 3399.3 |
| 52.5° | 4084.6 | 4123.5 | 4261.4 | 4433.5 | 4607.3 | 4585.5 | 4409.3 | 4999.7 | 5855.9 | 5772.2 | 3729.3 |
| 55° | 3809.4 | 3884.9 | 4087.6 | 4392.8 | 4874.2 | 5114.0 | 5033.9 | 5488.8 | 6284.9 | 6228.3 | 4111.7 |
| 57.5° | 3241.4 | 3287.4 | 3569.0 | 3995.7 | 4725.1 | 5362.7 | 5757.5 | 6151.7 | 6799.3 | 6772.7 | 4705.7 |
| 60° | 2180.2 | 2200.8 | 2563.2 | 3090.6 | 4022.8 | 5114.6 | 6287.8 | 6953.6 | 7432.7 | 7419.7 | 5399.2 |
| 62.5° | 1249.2 | 1258.0 | 1520.8 | 1965.7 | 2862.5 | 4334.5 | 6332.6 | 7943.0 | 8192.2 | 8199.3 | 6201.8 |
| 65° | 672.3 | 677.0 | 889.2 | 1153.7 | 1741.8 | 3089.4 | 5694.4 | 8485.1 | 8806.2 | 8819.8 | 6699.1 |
| 66° | 580.4 | 558.0 | 707.7 | 983.4 | 1385.9 | 2458.9 | 5290.8 | 8465.6 | 8924.1 | 8909.3 | 6681.4 |
| 67.5° | 441.3 | 461.4 | 565.1 | 756.0 | 1027.0 | 1748.3 | 4368.1 | 8089.1 | 8834.5 | 8788.5 | 6409.8 |
| 70° | 315.8 | 324.1 | 402.5 | 539.2 | 699.4 | 959.3 | 2791.2 | 6718.5 | 8029.6 | 7967.7 | 5584.2 |
| 72.5° | 203.9 | 212.7 | 285.2 | 390.1 | 505.6 | 523.8 | 1562.7 | 4854.2 | 6190.6 | 6181.7 | 4205.4 |
| 75° | 145.5 | 153.8 | 188.6 | 279.3 | 380.1 | 324.1 | 752.5 | 3271.5 | 3935.5 | 3909.0 | 2601.5 |
| 77.5° | 105.5 | 109.6 | 126.1 | 182.7 | 271.6 | 232.2 | 348.8 | 1747.1 | 1959.2 | 2051.7 | 1149.6 |
| 80° | 60.7 | 64.2 | 87.8 | 111.4 | 183.8 | 158.5 | 166.8 | 701.2 | 723.0 | 688.2 | 359.4 |
| 82.5° | 30.1 | 34.2 | 52.4 | 76.0 | 114.9 | 106.7 | 76.6 | 210.9 | 222.7 | 216.8 | 90.7 |
| 85° | 7.1 | 8.8 | 29.5 | 50.1 | 56.0 | 47.7 | 37.1 | 61.9 | 76.6 | 74.8 | 34.8 |
| 87.5° | 0.6 | 1.2 | 10.6 | 8.8 | 9.4 | 15.9 | 13.0 | 15.9 | 24.7 | 23.0 | 12.4 |
| 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° | 871.5 | 871.5 | 871.5 | 871.5 | 871.5 | 871.5 | 871.5 | 871.5 | 871.5 | 871.5 | 871.5 |
| 2.5° | 879.1 | 868.0 | 835.5 | 803.7 | 777.2 | 749.5 | 724.2 | 709.4 | 703.6 | 697.1 | 700.0 |
| 5° | 891.5 | 864.4 | 799.0 | 742.4 | 687.1 | 639.9 | 602.2 | 578.0 | 566.3 | 564.5 | 561.5 |
| 7.5° | 908.0 | 861.5 | 760.1 | 671.7 | 599.3 | 546.8 | 503.8 | 469.0 | 458.4 | 449.0 | 441.3 |
| 10° | 928.1 | 856.2 | 711.8 | 597.5 | 520.3 | 454.3 | 397.7 | 356.5 | 335.3 | 329.4 | 333.5 |
| 12.5° | 949.3 | 846.2 | 661.1 | 529.1 | 440.2 | 355.9 | 303.5 | 282.8 | 276.9 | 274.6 | 275.2 |
| 15° | 970.5 | 833.8 | 608.1 | 463.1 | 350.6 | 284.0 | 259.9 | 254.6 | 252.2 | 251.0 | 249.8 |
| 17.5° | 989.9 | 813.7 | 548.6 | 398.9 | 284.0 | 242.8 | 233.9 | 229.2 | 224.5 | 222.7 | 219.8 |
| 20° | 1012.9 | 790.8 | 495.0 | 327.0 | 240.4 | 219.8 | 209.2 | 200.3 | 193.3 | 188.6 | 188.0 |
| 22.5° | 1034.7 | 761.3 | 439.0 | 271.1 | 219.2 | 197.4 | 180.3 | 170.9 | 162.6 | 156.7 | 158.5 |
| 25° | 1046.5 | 725.4 | 388.9 | 236.3 | 199.8 | 175.0 | 156.1 | 144.4 | 135.5 | 132.6 | 132.0 |
| 27.5° | 1046.5 | 681.2 | 340.0 | 216.3 | 182.1 | 155.0 | 135.5 | 124.3 | 118.4 | 114.3 | 114.9 |
| 30° | 1038.2 | 632.3 | 294.6 | 200.9 | 166.8 | 137.3 | 119.0 | 109.0 | 104.3 | 101.3 | 100.8 |
| 32.5° | 1031.8 | 585.7 | 255.7 | 186.2 | 150.8 | 122.0 | 106.1 | 98.4 | 93.7 | 90.7 | 90.7 |
| 35° | 1041.8 | 545.6 | 225.7 | 171.5 | 136.1 | 110.2 | 96.0 | 89.0 | 84.3 | 81.9 | 81.3 |
| 37.5° | 1068.3 | 509.1 | 202.7 | 155.6 | 122.6 | 100.2 | 89.0 | 80.7 | 76.0 | 73.1 | 71.9 |
| 40° | 1133.7 | 488.5 | 185.6 | 140.8 | 109.6 | 91.9 | 80.7 | 73.1 | 67.2 | 64.2 | 63.6 |
| 42.5° | 1238.6 | 489.1 | 169.1 | 127.3 | 99.6 | 84.9 | 73.7 | 64.8 | 58.3 | 55.4 | 54.8 |
| 45° | 1396.5 | 511.5 | 156.1 | 114.3 | 90.7 | 77.2 | 66.0 | 56.6 | 50.7 | 47.7 | 47.7 |
| 47.5° | 1585.7 | 555.1 | 145.0 | 103.1 | 82.5 | 70.1 | 58.3 | 48.9 | 43.0 | 40.7 | 40.7 |
| 50° | 1790.7 | 611.6 | 133.8 | 91.3 | 75.4 | 62.5 | 50.1 | 42.4 | 37.7 | 35.9 | 35.9 |
| 52.5° | 1999.9 | 680.0 | 122.6 | 81.9 | 67.8 | 54.2 | 43.0 | 37.7 | 33.6 | 32.4 | 31.8 |
| 55° | 2274.5 | 767.2 | 110.8 | 71.9 | 59.5 | 46.6 | 38.3 | 33.0 | 28.3 | 26.5 | 25.9 |
| 57.5° | 2697.0 | 898.6 | 97.8 | 63.0 | 48.9 | 38.9 | 33.0 | 27.7 | 22.4 | 19.4 | 18.9 |
| 60° | 3206.7 | 1058.9 | 84.3 | 55.4 | 39.5 | 31.8 | 26.5 | 21.2 | 16.5 | 13.0 | 12.4 |
| 62.5° | 3683.9 | 1160.8 | 71.3 | 46.6 | 31.2 | 24.2 | 18.9 | 15.9 | 11.8 | 8.2 | 7.7 |
| 65° | 3894.9 | 1126.6 | 58.9 | 37.7 | 24.7 | 17.1 | 12.4 | 11.2 | 7.1 | 3.5 | 2.9 |
| 66° | 3824.8 | 1076.0 | 54.2 | 34.2 | 22.4 | 14.7 | 10.6 | 9.4 | 5.3 | 1.8 | 1.8 |
| 67.5° | 3617.9 | 956.3 | 47.1 | 29.5 | 19.4 | 11.8 | 8.2 | 7.1 | 2.9 | 0.6 | 0.0 |
| 70° | 3100.0 | 773.7 | 37.1 | 21.8 | 14.1 | 8.2 | 4.7 | 3.5 | 1.8 | 0.0 | 0.0 |
| 72.5° | 2381.1 | 576.3 | 29.5 | 16.5 | 10.0 | 4.7 | 2.4 | 1.2 | 1.8 | 0.0 | 0.0 |
| 75° | 1459.0 | 329.4 | 23.0 | 12.4 | 6.5 | 2.9 | 1.8 | 0.0 | 1.8 | 0.6 | 0.0 |
| 77.5° | 647.6 | 147.9 | 15.3 | 8.2 | 4.7 | 2.4 | 1.2 | 0.0 | 1.2 | 0.6 | 0.0 |
| 80° | 163.8 | 48.3 | 8.8 | 5.9 | 3.5 | 1.8 | 0.6 | 0.0 | 1.2 | 1.2 | 0.6 |
| 82.5° | 44.8 | 17.7 | 6.5 | 4.7 | 2.9 | 1.8 | 0.6 | 0.0 | 1.2 | 1.2 | 1.2 |
| 85° | 17.7 | 8.2 | 5.9 | 4.7 | 3.5 | 1.8 | 0.6 | 0.0 | 1.2 | 1.2 | 1.2 |
| 87.5° | 8.2 | 5.9 | 5.9 | 5.3 | 4.1 | 1.8 | 0.6 | 0.0 | 1.2 | 0.6 | 1.2 |
| 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)