

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: P454241

Luminaire Tested: **GALN-SA5B-750-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-750-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29041 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

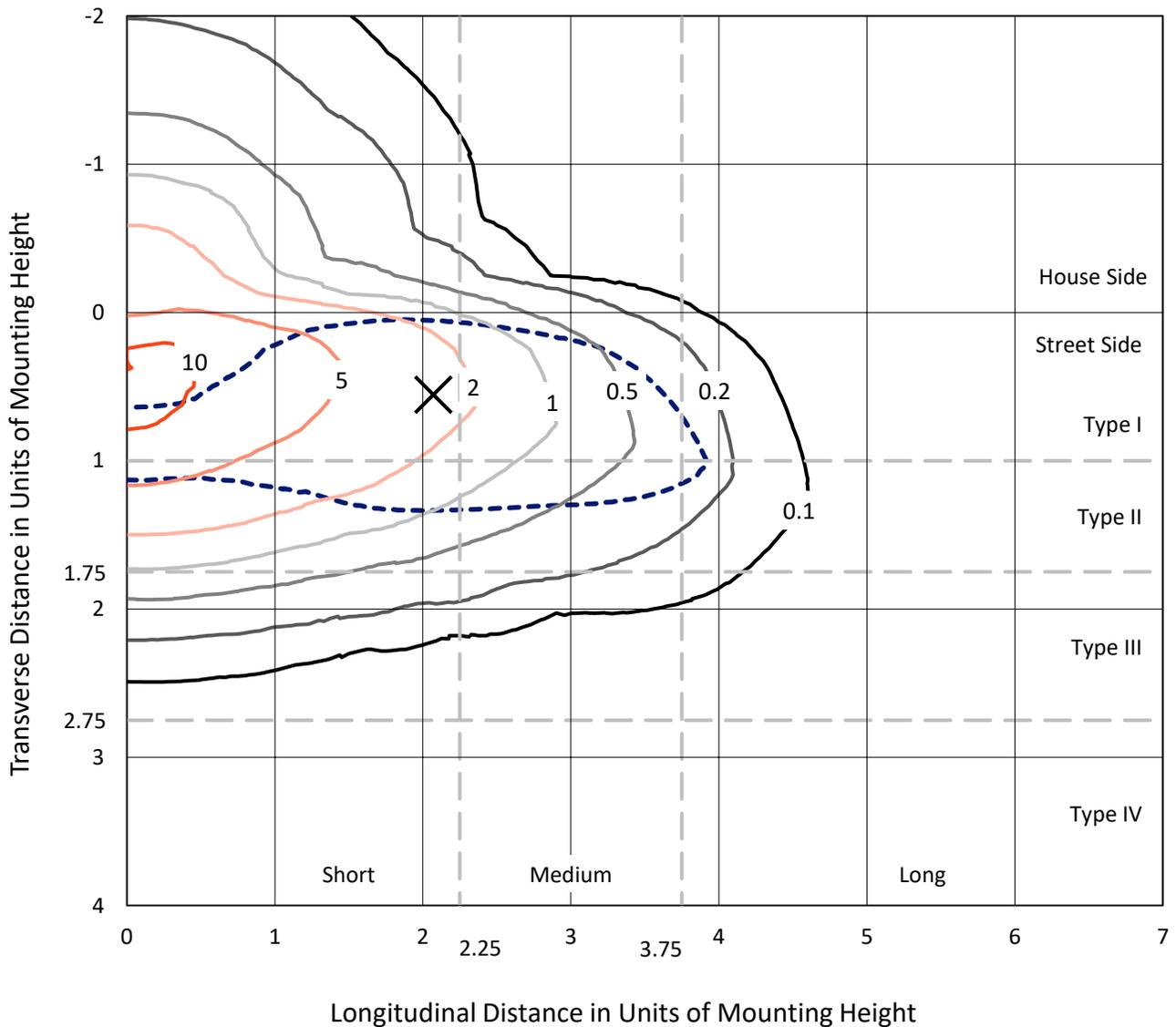
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

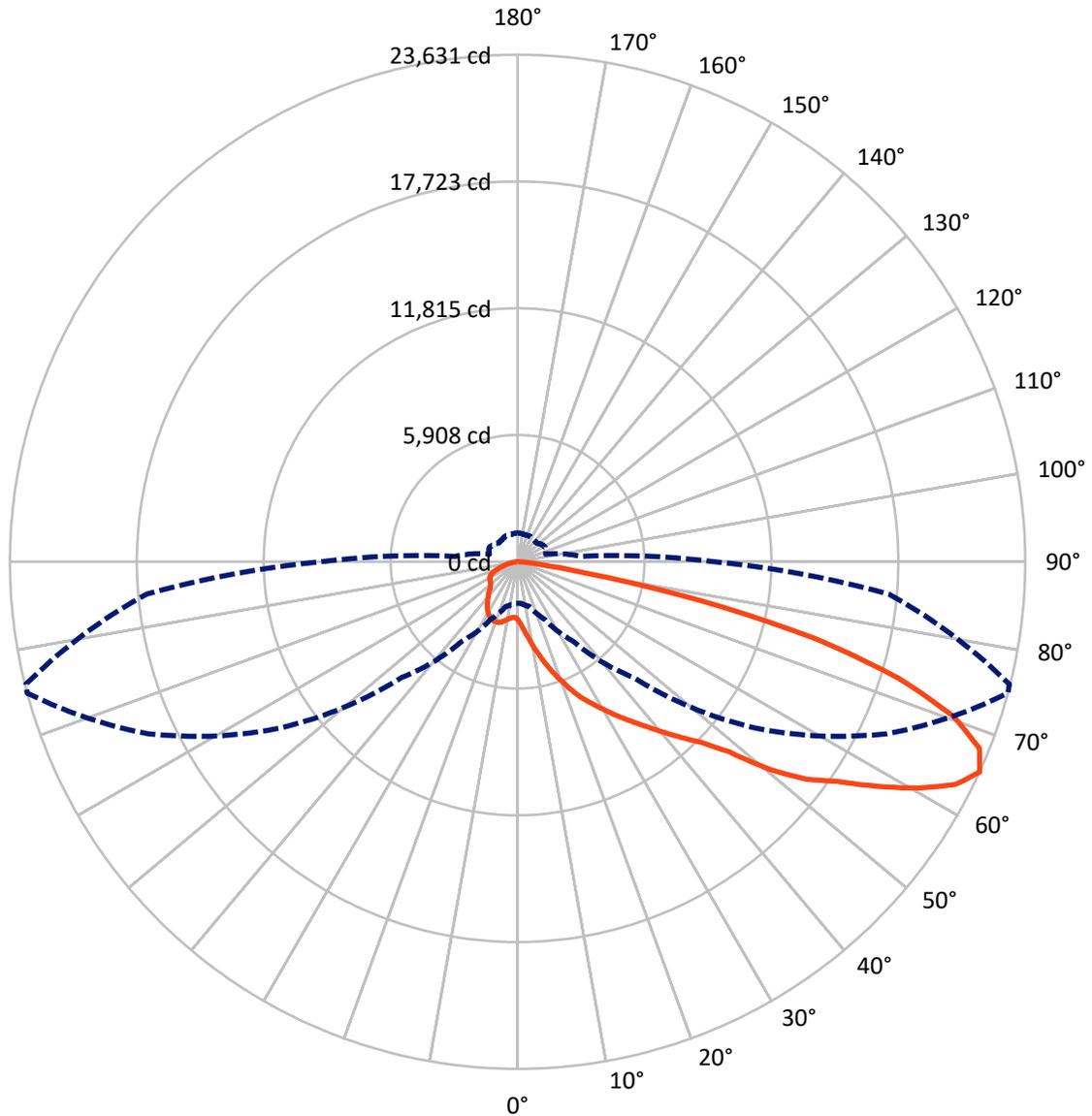
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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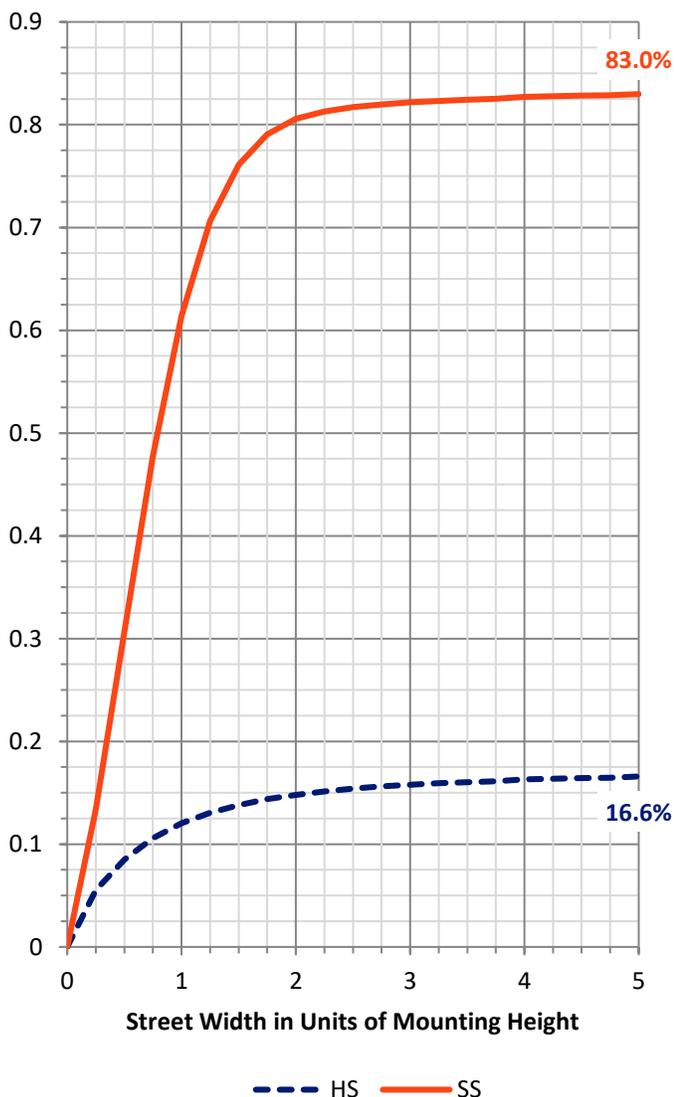
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4882.2 | 0.0 | 4882.2 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 24158.8 | 0.0 | 24158.8 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 29041.0 | 0.0 | 29041.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 327.8 | 1.1 |
| 10°-20° | 1284.1 | 4.4 |
| 20°-30° | 2480.4 | 8.5 |
| 30°-40° | 4028.9 | 13.9 |
| 40°-50° | 5542.1 | 19.1 |
| 50°-60° | 6543.4 | 22.5 |
| 60°-70° | 5733.1 | 19.7 |
| 70°-80° | 2737.0 | 9.4 |
| 80°-90° | 364.2 | 1.3 |
| 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° | 29041.0 | 100.0 |
| 0°-180° | 29041.0 | 100.0 |

Coefficient of Utilization



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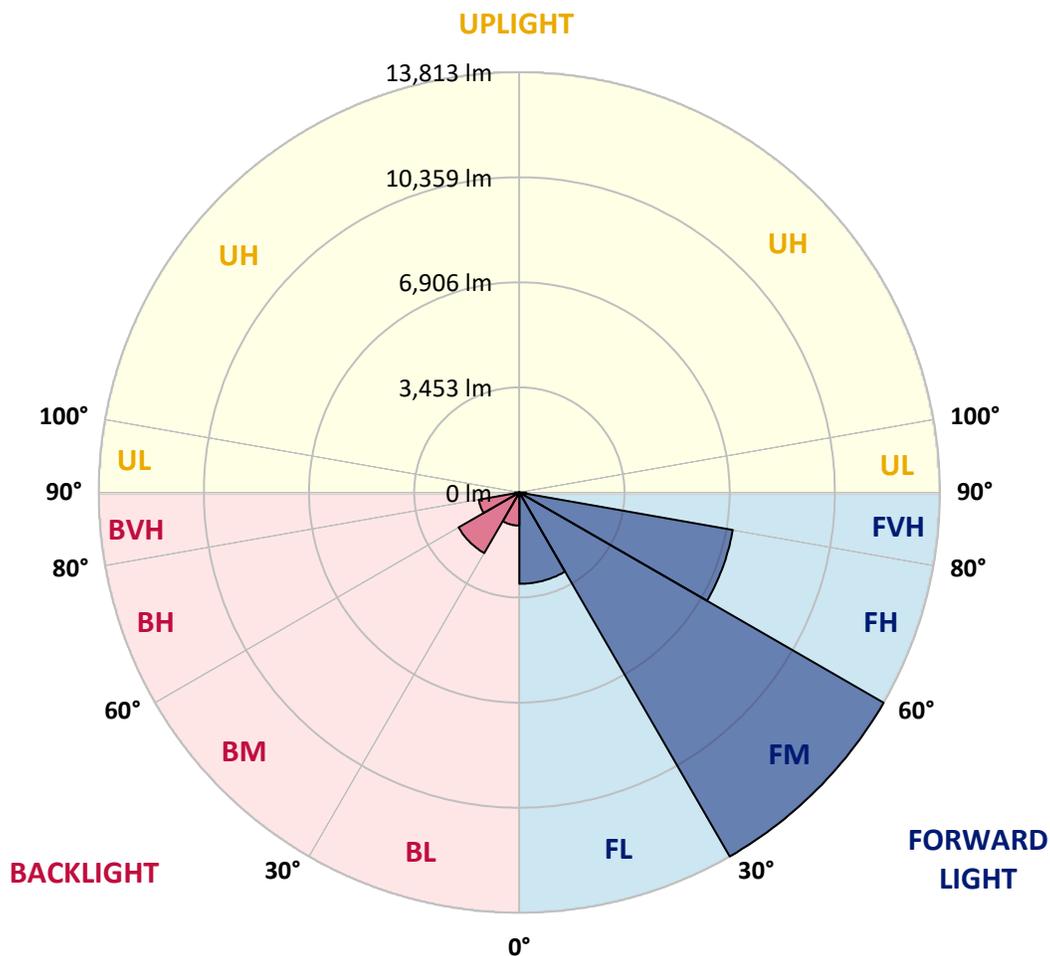
CATALOG NUMBER: GALN-SA5B-750-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3002.4 | 10.3 | | | |
| FM (30°-60°) | 13812.5 | 47.6 | | | |
| FH (60°-80°) | 7116.3 | 24.5 | | | G3/7500 |
| FVH (80°-90°) | 227.6 | 0.8 | | | G3/500 |
| BL (0°-30°) | 1089.9 | 3.8 | B3/2500 | | |
| BM (30°-60°) | 2301.9 | 7.9 | B2/2500 | | |
| BH (60°-80°) | 1353.7 | 4.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 136.6 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2698.3 | 2698.3 | 2698.3 | 2698.3 | 2698.3 | 2698.3 | 2698.3 | 2698.3 | 2698.3 | 2698.3 | 2698.3 |
| 2.5° | 3585.1 | 3561.5 | 3536.3 | 3467.0 | 3392.9 | 3309.4 | 3189.7 | 3074.7 | 2922.0 | 2917.2 | 2803.8 |
| 5° | 4579.0 | 4563.3 | 4451.4 | 4386.9 | 4215.2 | 3986.8 | 3793.0 | 3492.2 | 3213.4 | 3180.3 | 2959.8 |
| 7.5° | 5492.6 | 5431.2 | 5388.7 | 5272.1 | 5102.0 | 4809.0 | 4434.1 | 4027.7 | 3561.5 | 3517.4 | 3151.9 |
| 10° | 6181.0 | 6174.7 | 6152.6 | 6051.8 | 5924.2 | 5632.8 | 5217.0 | 4634.2 | 4002.5 | 3915.9 | 3385.1 |
| 12.5° | 6696.1 | 6700.8 | 6697.6 | 6696.1 | 6604.7 | 6357.4 | 5906.9 | 5292.6 | 4448.3 | 4386.9 | 3654.4 |
| 15° | 7034.7 | 7082.0 | 7100.9 | 7179.7 | 7187.5 | 7022.1 | 6634.6 | 5929.0 | 4950.8 | 4859.4 | 3944.2 |
| 17.5° | 7258.4 | 7282.0 | 7370.2 | 7504.1 | 7612.8 | 7582.9 | 7237.9 | 6518.1 | 5464.3 | 5311.5 | 4245.1 |
| 20° | 7472.6 | 7513.6 | 7581.3 | 7764.0 | 7956.2 | 8044.4 | 7801.8 | 7121.4 | 5973.1 | 5875.4 | 4577.5 |
| 22.5° | 7918.4 | 7976.7 | 8000.3 | 8093.3 | 8257.1 | 8413.0 | 8302.8 | 7699.5 | 6530.7 | 6398.4 | 4930.3 |
| 25° | 8672.9 | 8734.3 | 8668.2 | 8646.1 | 8699.7 | 8776.9 | 8753.3 | 8244.5 | 7056.8 | 6867.8 | 5264.2 |
| 27.5° | 9655.8 | 9663.7 | 9534.5 | 9411.7 | 9279.4 | 9240.0 | 9167.5 | 8728.0 | 7513.6 | 7356.1 | 5599.7 |
| 30° | 10711.2 | 10673.4 | 10459.2 | 10237.1 | 10013.4 | 9792.9 | 9584.9 | 9194.3 | 8022.4 | 7841.2 | 5929.0 |
| 32.5° | 11691.0 | 11670.5 | 11432.6 | 11087.7 | 10709.6 | 10501.7 | 10081.1 | 9665.3 | 8567.4 | 8392.5 | 6267.6 |
| 35° | 12425.0 | 12454.9 | 12193.4 | 11817.0 | 11404.3 | 11220.0 | 10689.1 | 10159.9 | 9131.3 | 8940.7 | 6636.2 |
| 37.5° | 12946.4 | 12930.6 | 12699.1 | 12373.0 | 12010.7 | 11850.0 | 11399.5 | 10700.2 | 9737.7 | 9555.0 | 7039.5 |
| 40° | 13132.2 | 13122.8 | 12951.1 | 12713.2 | 12483.3 | 12426.6 | 12143.0 | 11283.0 | 10432.4 | 10218.2 | 7524.6 |
| 42.5° | 13014.1 | 13034.6 | 12921.2 | 12856.6 | 12814.1 | 12855.0 | 12881.8 | 12046.9 | 11190.0 | 10993.2 | 8050.7 |
| 45° | 12651.8 | 12640.8 | 12625.0 | 12730.6 | 12970.0 | 13239.4 | 13612.7 | 12768.4 | 12013.9 | 11856.3 | 8756.4 |
| 47.5° | 12004.4 | 12083.2 | 12122.6 | 12414.0 | 12936.9 | 13574.9 | 14453.8 | 13735.5 | 13209.4 | 13072.4 | 9832.2 |
| 50° | 11098.7 | 11161.7 | 11394.8 | 11913.1 | 12692.8 | 13700.9 | 15276.1 | 15317.0 | 15203.6 | 14946.8 | 11001.0 |
| 52.5° | 9684.2 | 9781.8 | 10262.3 | 11212.1 | 12191.9 | 13648.9 | 15773.8 | 16673.2 | 16822.9 | 16630.7 | 12152.5 |
| 55° | 8101.1 | 8238.2 | 8745.4 | 9991.3 | 11501.9 | 13365.4 | 16117.2 | 17459.2 | 18056.2 | 17878.2 | 13261.4 |
| 57.5° | 6551.2 | 6696.1 | 7217.5 | 8424.0 | 10298.5 | 12738.4 | 16342.4 | 18335.0 | 19735.4 | 19503.8 | 14641.3 |
| 60° | 4909.8 | 5061.0 | 5508.4 | 6751.2 | 8584.7 | 11513.0 | 16189.7 | 19094.3 | 21412.9 | 21313.7 | 16022.7 |
| 62.5° | 3167.7 | 3334.6 | 3723.7 | 4752.3 | 6598.4 | 9838.5 | 15372.1 | 19513.3 | 22865.2 | 22745.5 | 17030.8 |
| 65° | 1929.6 | 1948.5 | 2162.7 | 2950.3 | 4516.0 | 7617.5 | 13502.4 | 18957.2 | 23630.8 | 23594.6 | 17338.0 |
| 67.5° | 1247.5 | 1277.5 | 1375.1 | 1767.3 | 2707.7 | 5291.0 | 10796.3 | 17122.2 | 23183.4 | 23170.8 | 16703.2 |
| 70° | 1053.8 | 1063.2 | 1107.3 | 1192.4 | 1573.6 | 3208.6 | 7581.3 | 14197.1 | 21483.8 | 21483.8 | 15176.8 |
| 72.5° | 942.0 | 954.6 | 970.3 | 997.1 | 1123.1 | 1817.8 | 4523.9 | 11051.4 | 18549.3 | 18672.1 | 12918.0 |
| 75° | 855.3 | 852.2 | 861.6 | 866.3 | 957.7 | 1187.7 | 2339.1 | 8173.6 | 14349.8 | 14104.1 | 9355.0 |
| 77.5° | 732.5 | 737.2 | 732.5 | 752.9 | 845.9 | 904.2 | 1187.7 | 5484.8 | 8696.5 | 8378.4 | 4695.6 |
| 80° | 601.7 | 609.6 | 617.5 | 630.1 | 723.0 | 686.8 | 713.6 | 2499.8 | 3216.5 | 3148.8 | 1450.7 |
| 82.5° | 452.1 | 463.1 | 475.7 | 505.6 | 568.6 | 453.7 | 450.5 | 1068.0 | 1160.9 | 1063.2 | 534.0 |
| 85° | 182.7 | 215.8 | 326.1 | 356.0 | 357.6 | 248.9 | 277.2 | 445.8 | 474.1 | 463.1 | 209.5 |
| 87.5° | 42.5 | 50.4 | 105.5 | 159.1 | 146.5 | 92.9 | 102.4 | 144.9 | 165.4 | 152.8 | 70.9 |
| 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° | 2698.3 | 2698.3 | 2698.3 | 2698.3 | 2698.3 | 2698.3 | 2698.3 | 2698.3 | 2698.3 | 2698.3 | 2698.3 |
| 2.5° | 2751.8 | 2696.7 | 2602.2 | 2529.7 | 2477.8 | 2432.1 | 2403.7 | 2386.4 | 2380.1 | 2378.5 | 2380.1 |
| 5° | 2844.8 | 2747.1 | 2597.5 | 2503.0 | 2451.0 | 2421.0 | 2403.7 | 2402.1 | 2403.7 | 2405.3 | 2400.6 |
| 7.5° | 2972.4 | 2832.2 | 2636.8 | 2548.6 | 2509.3 | 2487.2 | 2479.3 | 2476.2 | 2477.8 | 2476.2 | 2476.2 |
| 10° | 3142.5 | 2950.3 | 2714.0 | 2622.7 | 2589.6 | 2564.4 | 2551.8 | 2543.9 | 2537.6 | 2531.3 | 2528.2 |
| 12.5° | 3329.9 | 3081.0 | 2797.5 | 2709.3 | 2662.0 | 2622.7 | 2594.3 | 2573.8 | 2559.7 | 2545.5 | 2542.3 |
| 15° | 3539.4 | 3219.7 | 2890.4 | 2767.6 | 2699.9 | 2641.6 | 2592.7 | 2559.7 | 2534.5 | 2514.0 | 2512.4 |
| 17.5° | 3739.5 | 3350.4 | 2953.5 | 2794.4 | 2695.1 | 2613.2 | 2548.6 | 2503.0 | 2471.5 | 2444.7 | 2441.5 |
| 20° | 3953.7 | 3474.8 | 2981.8 | 2777.0 | 2647.9 | 2548.6 | 2463.6 | 2408.4 | 2372.2 | 2342.3 | 2337.6 |
| 22.5° | 4169.5 | 3580.4 | 2978.7 | 2721.9 | 2566.0 | 2449.4 | 2359.6 | 2301.3 | 2258.8 | 2228.9 | 2217.8 |
| 25° | 4375.8 | 3665.4 | 2939.3 | 2633.7 | 2452.5 | 2331.3 | 2239.9 | 2186.3 | 2148.5 | 2112.3 | 2112.3 |
| 27.5° | 4561.7 | 3715.8 | 2865.2 | 2526.6 | 2336.0 | 2208.4 | 2135.9 | 2087.1 | 2052.5 | 2028.8 | 2014.6 |
| 30° | 4744.4 | 3739.5 | 2764.4 | 2391.1 | 2213.1 | 2104.4 | 2046.2 | 2017.8 | 1986.3 | 1959.5 | 1956.4 |
| 32.5° | 4908.2 | 3734.7 | 2638.4 | 2258.8 | 2096.6 | 2019.4 | 1995.7 | 1973.7 | 1940.6 | 1902.8 | 1893.4 |
| 35° | 5067.3 | 3703.2 | 2488.8 | 2113.9 | 1998.9 | 1969.0 | 1975.3 | 1943.8 | 1883.9 | 1836.7 | 1828.8 |
| 37.5° | 5240.6 | 3646.5 | 2325.0 | 1995.7 | 1917.0 | 1945.3 | 1961.1 | 1891.8 | 1794.1 | 1720.1 | 1702.8 |
| 40° | 5440.7 | 3581.9 | 2154.8 | 1877.6 | 1852.4 | 1923.3 | 1923.3 | 1795.7 | 1661.8 | 1616.1 | 1603.5 |
| 42.5° | 5675.4 | 3528.4 | 2013.1 | 1778.4 | 1798.9 | 1869.7 | 1861.9 | 1668.1 | 1613.0 | 1589.4 | 1583.1 |
| 45° | 6047.1 | 3509.5 | 1866.6 | 1691.7 | 1754.7 | 1806.7 | 1742.1 | 1624.0 | 1592.5 | 1573.6 | 1567.3 |
| 47.5° | 6634.6 | 3531.5 | 1737.4 | 1627.2 | 1704.3 | 1743.7 | 1608.3 | 1594.1 | 1572.0 | 1545.2 | 1542.1 |
| 50° | 7179.7 | 3511.1 | 1646.1 | 1590.9 | 1660.2 | 1668.1 | 1553.1 | 1557.8 | 1545.2 | 1515.3 | 1509.0 |
| 52.5° | 7625.4 | 3446.5 | 1587.8 | 1572.0 | 1622.4 | 1535.8 | 1501.1 | 1518.5 | 1513.7 | 1475.9 | 1469.6 |
| 55° | 8115.3 | 3407.1 | 1559.4 | 1572.0 | 1597.2 | 1420.8 | 1452.3 | 1477.5 | 1471.2 | 1444.4 | 1442.9 |
| 57.5° | 8709.1 | 3415.0 | 1538.9 | 1576.8 | 1572.0 | 1362.5 | 1403.5 | 1433.4 | 1431.8 | 1424.0 | 1424.0 |
| 60° | 9317.2 | 3418.1 | 1507.4 | 1575.2 | 1542.1 | 1316.8 | 1353.1 | 1395.6 | 1398.8 | 1403.5 | 1403.5 |
| 62.5° | 9518.8 | 3281.1 | 1446.0 | 1546.8 | 1475.9 | 1272.7 | 1305.8 | 1364.1 | 1361.0 | 1373.6 | 1375.1 |
| 65° | 9142.3 | 2901.5 | 1354.7 | 1482.2 | 1390.9 | 1241.2 | 1269.6 | 1323.1 | 1305.8 | 1338.9 | 1345.2 |
| 67.5° | 8321.7 | 2400.6 | 1212.9 | 1365.7 | 1296.4 | 1208.2 | 1246.0 | 1266.4 | 1234.9 | 1299.5 | 1301.1 |
| 70° | 7192.3 | 1874.5 | 1033.3 | 1200.3 | 1189.3 | 1173.5 | 1227.1 | 1195.6 | 1151.5 | 1230.2 | 1214.5 |
| 72.5° | 6014.0 | 1431.8 | 825.4 | 981.3 | 1045.9 | 1121.5 | 1194.0 | 1104.2 | 1042.8 | 1066.4 | 1038.0 |
| 75° | 4517.6 | 1058.5 | 663.1 | 768.7 | 871.1 | 1047.5 | 1164.1 | 993.9 | 899.4 | 877.4 | 871.1 |
| 77.5° | 2302.9 | 691.5 | 496.2 | 574.9 | 653.7 | 946.7 | 1123.1 | 864.8 | 745.1 | 710.4 | 694.7 |
| 80° | 822.2 | 430.0 | 349.7 | 396.9 | 441.0 | 814.4 | 981.3 | 715.1 | 578.1 | 571.8 | 578.1 |
| 82.5° | 381.2 | 277.2 | 234.7 | 259.9 | 261.5 | 543.4 | 748.2 | 534.0 | 439.5 | 667.9 | 563.9 |
| 85° | 163.8 | 138.6 | 132.3 | 129.2 | 119.7 | 242.6 | 420.6 | 286.7 | 447.3 | 200.0 | 184.3 |
| 87.5° | 48.8 | 55.1 | 48.8 | 36.2 | 26.8 | 26.8 | 42.5 | 15.8 | 11.0 | 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 |

(END OF REPORT)