

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: P454248

Luminaire Tested: **GALN-SA5B-750-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20614 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

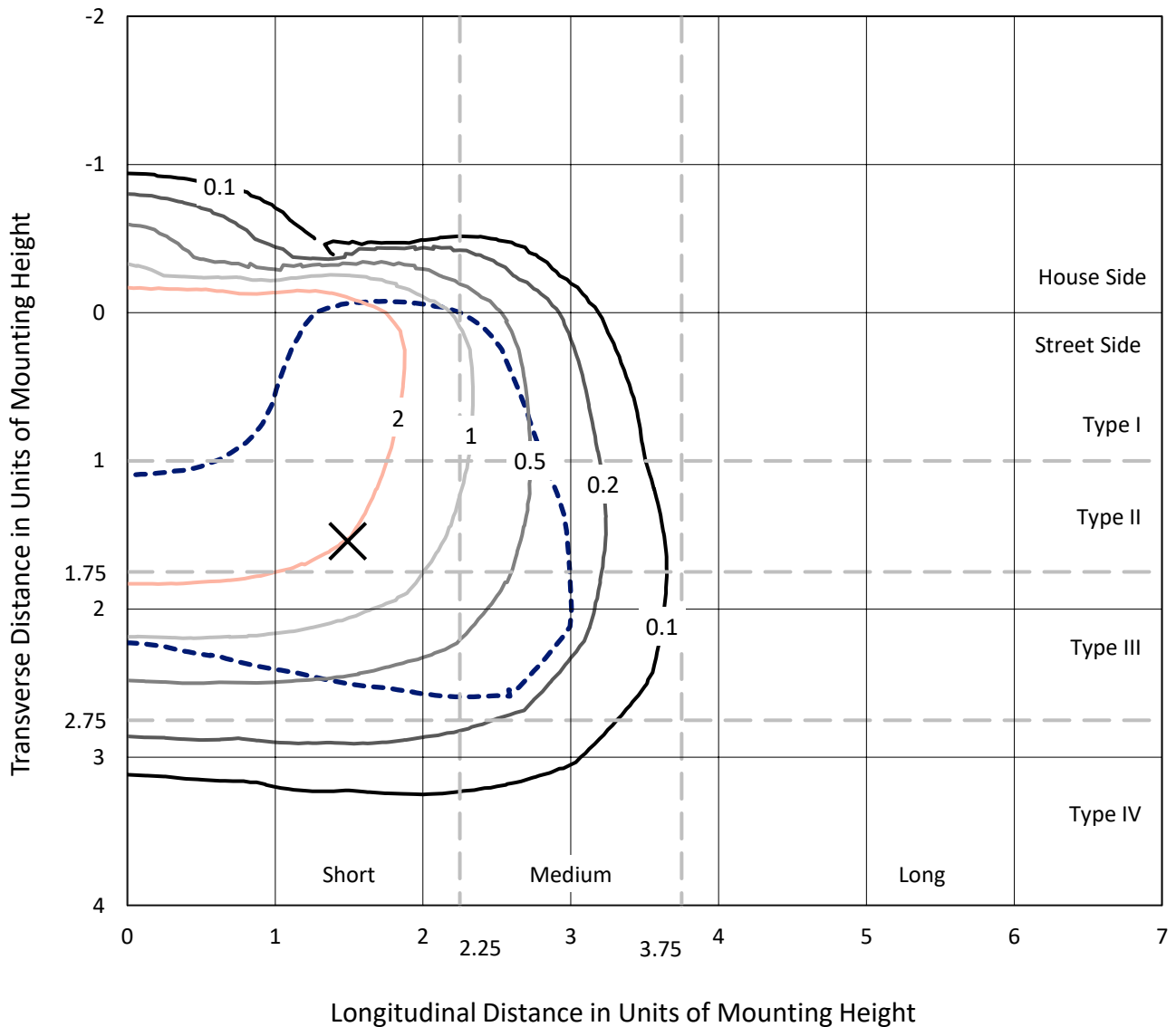
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454248
 CATALOG NUMBER: GALN-SA5B-750-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

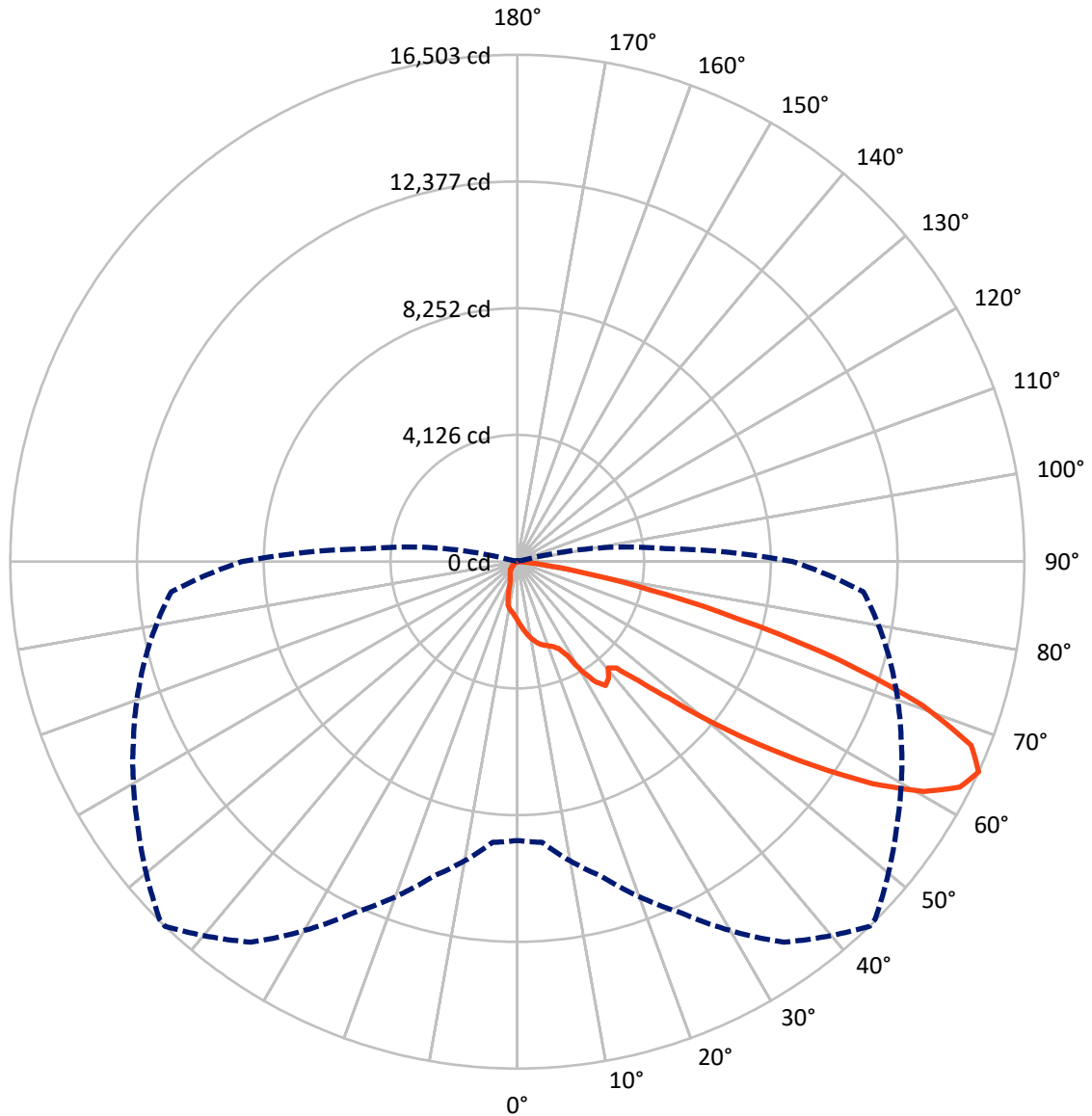
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

REPORT NUMBER: P454248
CATALOG NUMBER: GALN-SA5B-750-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1899.3 | 0.0 | 1899.3 |
| | % Fixture | 9.2 | 0.0 | 9.2 |
| Street Side | Lumens | 18714.7 | 0.0 | 18714.7 |
| | % Fixture | 90.8 | 0.0 | 90.8 |
| Total | Lumens | 20614.0 | 0.0 | 20614.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 190.8 | 0.9 |
| 10°-20° | 574.3 | 2.8 |
| 20°-30° | 973.8 | 4.7 |
| 30°-40° | 1619.1 | 7.9 |
| 40°-50° | 2827.0 | 13.7 |
| 50°-60° | 5523.0 | 26.8 |
| 60°-70° | 6408.0 | 31.1 |
| 70°-80° | 2333.5 | 11.3 |
| 80°-90° | 164.4 | 0.8 |
| 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° | 20614.0 | 100.0 |
| 0°-180° | 20614.0 | 100.0 |



REPORT NUMBER: P454248

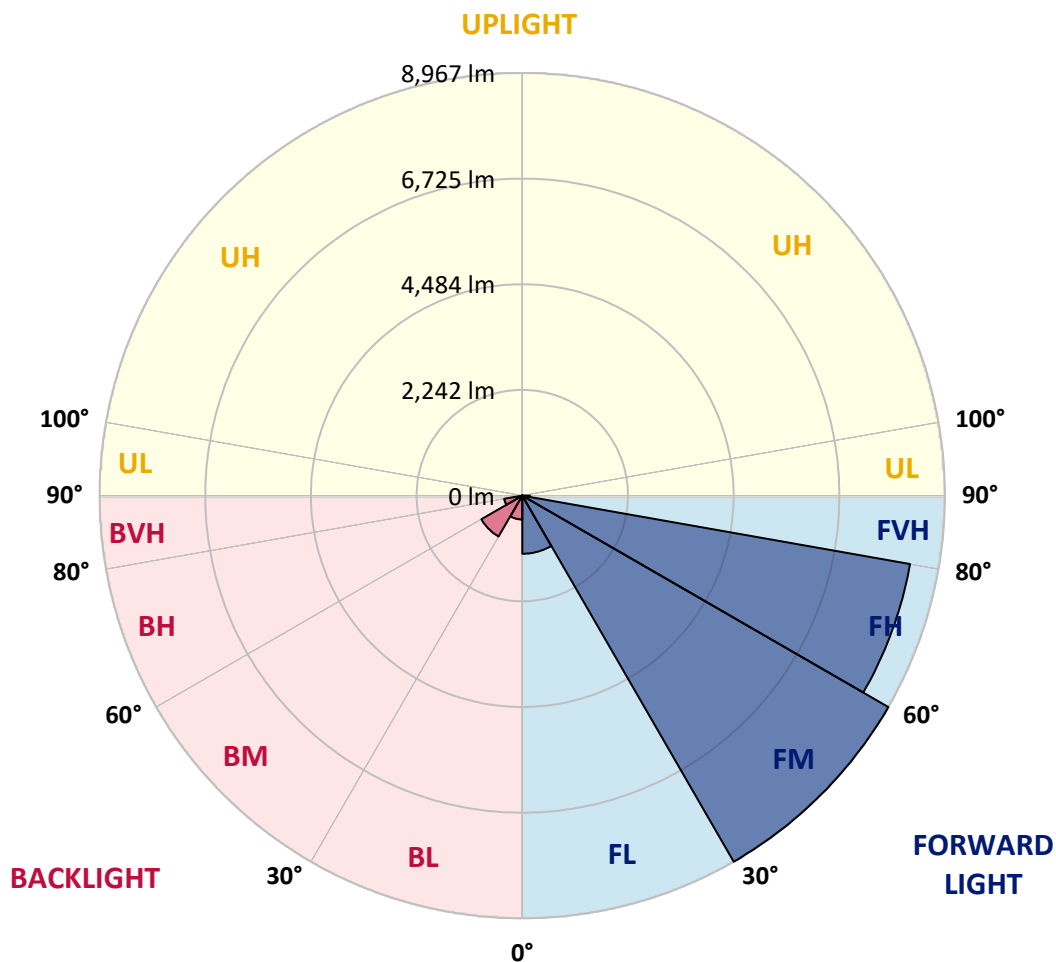
CATALOG NUMBER: GALN-SA5B-750-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1232.9 | 6.0 | | | |
| FM | (30°-60°) | 8967.1 | 43.5 | | | |
| FH | (60°-80°) | 8352.5 | 40.5 | | | G4/12000 |
| FVH | (80°-90°) | 162.2 | 0.8 | | | G2/225 |
| BL | (0°-30°) | 506.0 | 2.5 | B2/1000 | | |
| BM | (30°-60°) | 1002.1 | 4.9 | B2/2500 | | |
| BH | (60°-80°) | 388.9 | 1.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 2.2 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Short





REPORT NUMBER: P454248

CATALOG NUMBER: GALN-SA5B-750-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1918.5 | 1918.5 | 1918.5 | 1918.5 | 1918.5 | 1918.5 | 1918.5 | 1918.5 | 1918.5 | 1918.5 | 1918.5 |
| 2.5° | 2159.5 | 2150.1 | 2145.4 | 2120.2 | 2101.3 | 2077.6 | 2077.6 | 2047.7 | 2013.1 | 1975.3 | 1940.6 |
| 5° | 2400.5 | 2384.8 | 2364.3 | 2342.3 | 2298.2 | 2235.2 | 2235.2 | 2172.1 | 2099.7 | 2035.1 | 1964.2 |
| 7.5° | 2632.1 | 2617.9 | 2583.3 | 2540.7 | 2468.3 | 2402.1 | 2397.4 | 2306.0 | 2219.4 | 2121.7 | 2020.9 |
| 10° | 2835.3 | 2824.3 | 2794.3 | 2712.4 | 2636.8 | 2550.2 | 2548.6 | 2446.2 | 2345.4 | 2225.7 | 2101.3 |
| 12.5° | 2977.1 | 2978.6 | 2939.3 | 2860.5 | 2762.8 | 2680.9 | 2674.6 | 2573.8 | 2468.3 | 2339.1 | 2186.3 |
| 15° | 3077.9 | 3077.9 | 3036.9 | 2948.7 | 2860.5 | 2788.0 | 2781.7 | 2693.5 | 2584.8 | 2444.7 | 2279.3 |
| 17.5° | 3106.2 | 3115.7 | 3071.6 | 2992.8 | 2921.9 | 2858.9 | 2857.3 | 2783.3 | 2696.7 | 2561.2 | 2373.8 |
| 20° | 3095.2 | 3104.6 | 3070.0 | 3008.6 | 2959.7 | 2923.5 | 2918.8 | 2888.8 | 2808.5 | 2680.9 | 2474.6 |
| 22.5° | 3071.6 | 3081.0 | 3055.8 | 3019.6 | 2996.0 | 3007.0 | 2999.1 | 3024.3 | 2981.8 | 2827.4 | 2594.3 |
| 25° | 3076.3 | 3085.7 | 3066.8 | 3046.4 | 3066.8 | 3134.6 | 3155.1 | 3263.7 | 3225.9 | 3013.3 | 2723.5 |
| 27.5° | 3224.4 | 3243.3 | 3216.5 | 3225.9 | 3298.4 | 3455.9 | 3495.3 | 3682.7 | 3515.8 | 3249.6 | 2925.1 |
| 30° | 3553.6 | 3541.0 | 3490.6 | 3536.2 | 3788.3 | 4122.2 | 4111.2 | 4081.2 | 3819.8 | 3522.1 | 3164.5 |
| 32.5° | 3852.8 | 3841.8 | 3838.7 | 4035.6 | 4492.4 | 4654.6 | 4646.7 | 4356.9 | 4092.3 | 3833.9 | 3400.8 |
| 35° | 3974.1 | 3931.6 | 3922.2 | 4399.4 | 5163.4 | 4949.2 | 4900.3 | 4470.3 | 4423.1 | 4174.2 | 3641.8 |
| 37.5° | 4339.6 | 4309.6 | 4163.2 | 4459.3 | 4895.6 | 4824.7 | 4786.9 | 4665.6 | 4775.9 | 4475.0 | 3914.3 |
| 40° | 5092.5 | 5009.0 | 4876.7 | 4586.9 | 4516.0 | 4545.9 | 4583.7 | 4916.1 | 5193.3 | 4886.2 | 4278.1 |
| 42.5° | 6028.1 | 6009.2 | 5763.5 | 5223.2 | 4692.4 | 4733.4 | 4782.2 | 5439.0 | 5793.4 | 5505.2 | 4872.0 |
| 45° | 7151.2 | 7178.0 | 6823.6 | 6185.7 | 5489.4 | 5524.1 | 5595.0 | 6210.9 | 6606.2 | 6467.6 | 5806.1 |
| 47.5° | 8171.9 | 8151.5 | 8031.8 | 7368.6 | 6725.9 | 6648.8 | 6763.8 | 7201.6 | 7730.9 | 7753.0 | 6965.4 |
| 50° | 9199.0 | 9307.6 | 9129.6 | 8869.7 | 8392.5 | 8230.2 | 8187.7 | 8401.9 | 9208.4 | 9102.9 | 8357.8 |
| 52.5° | 10674.9 | 10731.6 | 10397.7 | 10331.5 | 10440.2 | 9914.1 | 9871.5 | 9923.5 | 10645.0 | 10282.7 | 9400.6 |
| 55° | 11602.7 | 11569.6 | 11445.1 | 11961.8 | 12391.8 | 11735.0 | 11681.4 | 11471.9 | 11837.4 | 11115.9 | 10404.0 |
| 57.5° | 11895.6 | 11942.9 | 12232.7 | 13166.8 | 14184.3 | 13626.7 | 13529.1 | 12933.7 | 12697.4 | 11892.5 | 11327.0 |
| 60° | 11764.9 | 11851.5 | 12476.9 | 13866.2 | 15277.5 | 15194.0 | 15110.5 | 14110.3 | 13314.9 | 12541.4 | 11974.4 |
| 62.5° | 10834.0 | 10955.3 | 11955.5 | 13741.7 | 15647.7 | 16169.0 | 16065.1 | 14844.3 | 13726.0 | 12856.5 | 12087.8 |
| 65° | 9079.2 | 9169.0 | 10605.6 | 12612.3 | 15121.6 | 16503.0 | 16465.2 | 15074.3 | 13790.6 | 12568.2 | 11311.2 |
| 67.5° | 6472.3 | 6777.9 | 8108.9 | 10629.2 | 13565.3 | 15932.8 | 15997.4 | 14798.7 | 13184.1 | 11322.3 | 9367.5 |
| 70° | 4068.6 | 4276.6 | 5231.1 | 7609.6 | 10874.9 | 13978.0 | 14190.6 | 13537.0 | 11442.0 | 8825.6 | 6270.7 |
| 72.5° | 1940.6 | 2095.0 | 2775.4 | 4816.8 | 7675.8 | 10997.8 | 11166.3 | 11112.8 | 8847.7 | 5560.3 | 3235.4 |
| 75° | 864.8 | 923.0 | 1324.7 | 2458.8 | 4955.5 | 7392.2 | 7828.6 | 7901.0 | 5528.8 | 2720.3 | 1258.6 |
| 77.5° | 441.0 | 442.6 | 620.6 | 1190.8 | 2474.6 | 4410.5 | 4497.1 | 4750.7 | 2997.5 | 1198.7 | 437.9 |
| 80° | 234.7 | 250.5 | 329.2 | 562.3 | 1283.8 | 2172.1 | 2161.1 | 2375.3 | 1329.4 | 587.5 | 146.5 |
| 82.5° | 105.5 | 116.6 | 185.9 | 294.6 | 626.9 | 823.8 | 888.4 | 971.9 | 570.2 | 374.9 | 64.6 |
| 85° | 31.5 | 37.8 | 91.4 | 148.1 | 226.8 | 237.8 | 266.2 | 343.4 | 322.9 | 266.2 | 33.1 |
| 87.5° | 4.7 | 4.7 | 37.8 | 41.0 | 33.1 | 42.5 | 44.1 | 48.8 | 104.0 | 97.7 | 17.3 |
| 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° | 1918.5 | 1918.5 | 1918.5 | 1918.5 | 1918.5 | 1918.5 | 1918.5 | 1918.5 | 1918.5 | 1918.5 | 1918.5 |
| 2.5° | 1921.7 | 1910.7 | 1871.3 | 1838.2 | 1809.9 | 1792.5 | 1772.1 | 1759.5 | 1753.2 | 1748.4 | 1750.0 |
| 5° | 1929.6 | 1902.8 | 1835.1 | 1781.5 | 1740.6 | 1696.5 | 1666.5 | 1649.2 | 1641.3 | 1628.7 | 1628.7 |
| 7.5° | 1973.7 | 1931.1 | 1836.6 | 1754.7 | 1683.8 | 1624.0 | 1567.3 | 1546.8 | 1532.6 | 1529.5 | 1526.3 |
| 10° | 2036.7 | 1983.1 | 1854.0 | 1740.6 | 1639.7 | 1557.8 | 1477.5 | 1406.6 | 1351.5 | 1318.4 | 1313.7 |
| 12.5° | 2115.4 | 2038.3 | 1880.7 | 1731.1 | 1601.9 | 1457.0 | 1244.4 | 1101.0 | 1005.0 | 975.0 | 979.8 |
| 15° | 2187.9 | 2104.4 | 1907.5 | 1723.2 | 1532.6 | 1208.2 | 967.2 | 803.3 | 754.5 | 749.8 | 751.4 |
| 17.5° | 2274.5 | 2175.3 | 1939.0 | 1712.2 | 1342.0 | 923.0 | 718.3 | 674.2 | 683.6 | 699.4 | 697.8 |
| 20° | 2364.3 | 2250.9 | 1976.8 | 1646.0 | 1071.1 | 694.6 | 634.8 | 639.5 | 653.7 | 667.9 | 671.0 |
| 22.5° | 2460.4 | 2337.5 | 2020.9 | 1487.0 | 817.5 | 604.9 | 601.7 | 608.0 | 622.2 | 637.9 | 641.1 |
| 25° | 2592.7 | 2446.2 | 2054.0 | 1279.0 | 619.0 | 559.2 | 565.5 | 576.5 | 589.1 | 606.4 | 609.6 |
| 27.5° | 2762.8 | 2592.7 | 2071.3 | 1008.1 | 535.6 | 518.2 | 519.8 | 535.6 | 551.3 | 567.1 | 567.1 |
| 30° | 2983.4 | 2767.6 | 2036.7 | 762.4 | 494.6 | 478.8 | 472.5 | 482.0 | 502.5 | 518.2 | 519.8 |
| 32.5° | 3180.3 | 2933.0 | 1945.3 | 582.8 | 464.7 | 442.6 | 426.9 | 428.4 | 436.3 | 445.8 | 447.3 |
| 35° | 3377.1 | 3093.6 | 1789.4 | 489.9 | 433.2 | 408.0 | 384.3 | 371.7 | 365.4 | 360.7 | 365.4 |
| 37.5° | 3629.2 | 3293.7 | 1581.5 | 445.8 | 406.4 | 374.9 | 341.8 | 315.0 | 293.0 | 278.8 | 282.0 |
| 40° | 3953.7 | 3570.9 | 1335.7 | 417.4 | 381.2 | 343.4 | 299.3 | 264.6 | 226.8 | 214.2 | 207.9 |
| 42.5° | 4489.2 | 3991.5 | 1077.4 | 393.8 | 356.0 | 310.3 | 255.2 | 207.9 | 173.3 | 160.7 | 163.8 |
| 45° | 5335.1 | 4522.3 | 830.1 | 368.6 | 330.8 | 274.1 | 214.2 | 163.8 | 135.5 | 129.2 | 132.3 |
| 47.5° | 6456.6 | 5209.1 | 639.5 | 340.2 | 299.3 | 234.7 | 168.5 | 129.2 | 111.8 | 110.3 | 108.7 |
| 50° | 7512.0 | 5848.6 | 534.0 | 308.7 | 261.5 | 195.3 | 138.6 | 108.7 | 97.7 | 96.1 | 96.1 |
| 52.5° | 8466.5 | 6307.0 | 434.7 | 272.5 | 220.5 | 160.7 | 116.6 | 96.1 | 86.6 | 81.9 | 81.9 |
| 55° | 9315.5 | 6606.2 | 352.8 | 228.4 | 173.3 | 127.6 | 100.8 | 86.6 | 75.6 | 69.3 | 67.7 |
| 57.5° | 9956.6 | 6642.5 | 264.6 | 182.7 | 129.2 | 99.2 | 86.6 | 75.6 | 63.0 | 55.1 | 52.0 |
| 60° | 10230.7 | 6329.0 | 195.3 | 138.6 | 96.1 | 78.8 | 69.3 | 61.4 | 47.3 | 39.4 | 37.8 |
| 62.5° | 9955.0 | 5719.4 | 144.9 | 105.5 | 74.0 | 58.3 | 48.8 | 45.7 | 33.1 | 23.6 | 22.1 |
| 65° | 8967.4 | 4838.9 | 115.0 | 80.3 | 55.1 | 42.5 | 31.5 | 29.9 | 20.5 | 11.0 | 9.5 |
| 67.5° | 7184.3 | 3789.8 | 91.4 | 59.9 | 39.4 | 28.4 | 20.5 | 18.9 | 11.0 | 3.2 | 3.2 |
| 70° | 4671.9 | 2422.6 | 74.0 | 44.1 | 25.2 | 18.9 | 12.6 | 9.5 | 6.3 | 1.6 | 0.0 |
| 72.5° | 2310.8 | 1132.5 | 59.9 | 34.7 | 17.3 | 9.5 | 4.7 | 3.2 | 4.7 | 0.0 | 0.0 |
| 75° | 896.3 | 403.2 | 44.1 | 23.6 | 9.5 | 4.7 | 3.2 | 0.0 | 1.6 | 0.0 | 0.0 |
| 77.5° | 297.7 | 133.9 | 26.8 | 12.6 | 6.3 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 110.3 | 52.0 | 14.2 | 7.9 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 44.1 | 20.5 | 9.5 | 6.3 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 22.1 | 12.6 | 6.3 | 4.7 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 15.8 | 9.5 | 6.3 | 4.7 | 3.2 | 1.6 | 0.0 | 0.0 | 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)