

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: P455176

Luminaire Tested: **GALN-SA6B-750-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455176
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-SA6B-750-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 24409 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

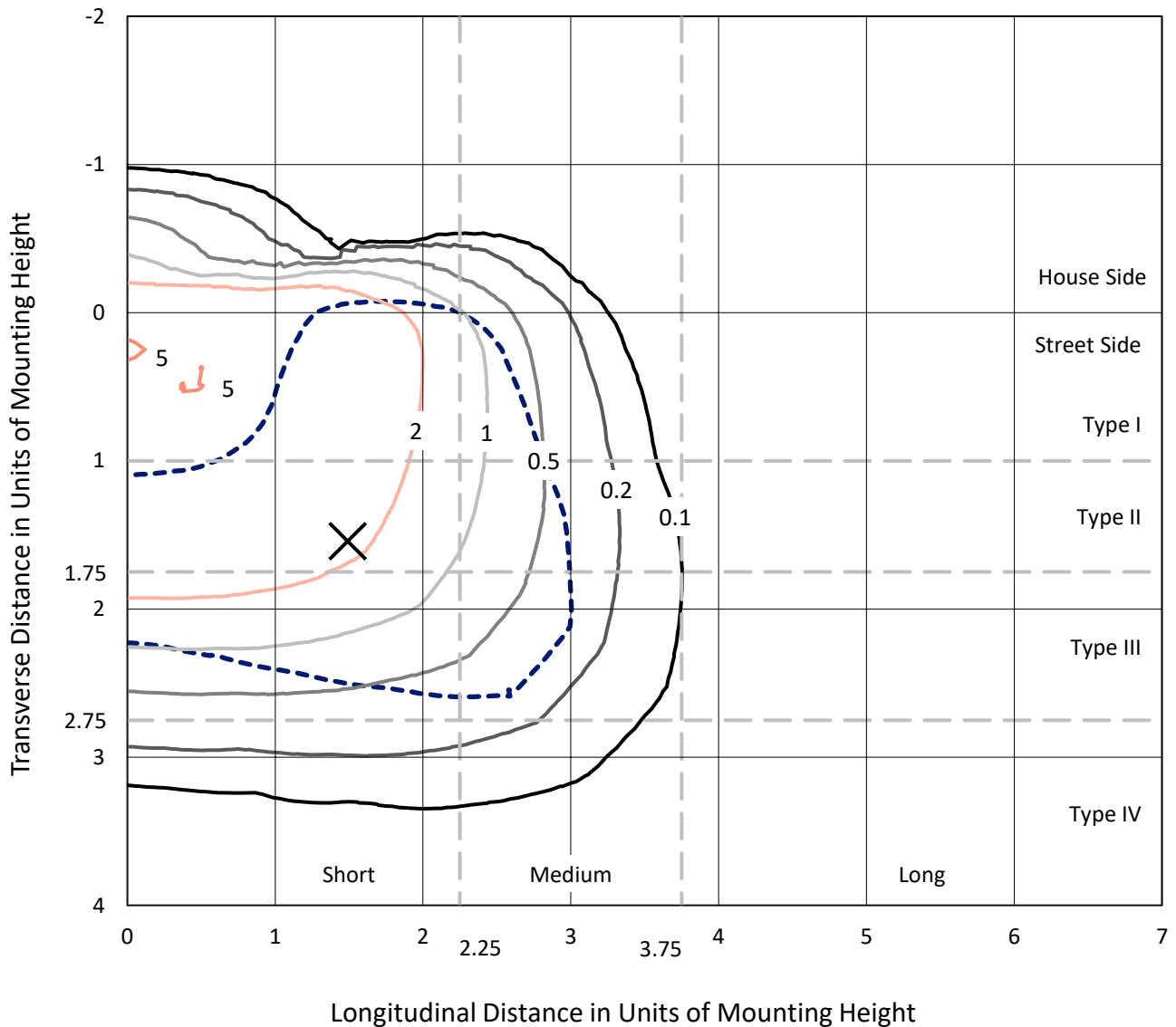
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

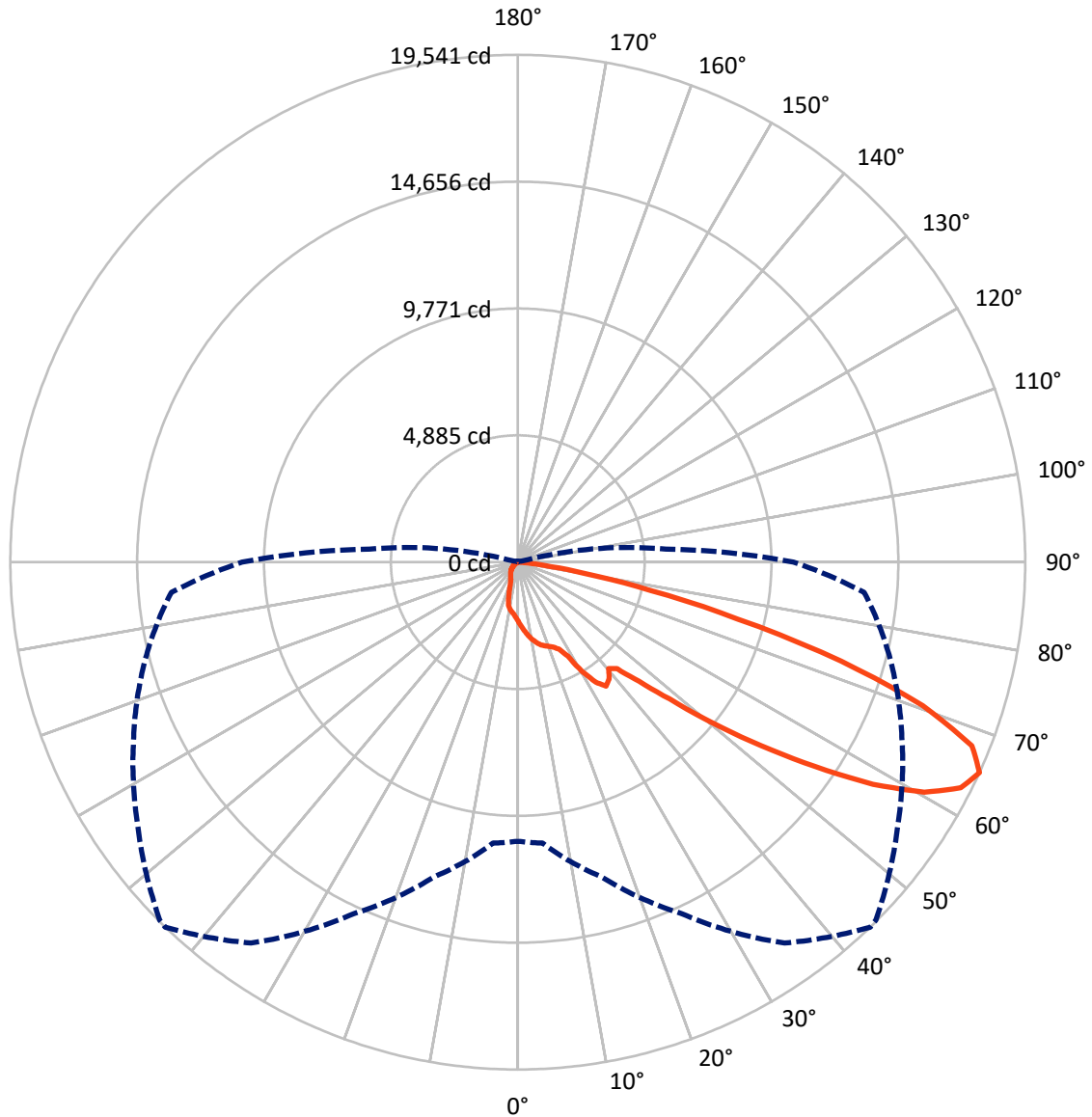
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

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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 | 2248.9 | 0.0 | 2248.9 |
| | % Fixture | 9.2 | 0.0 | 9.2 |
| Street Side | Lumens | 22160.1 | 0.0 | 22160.1 |
| | % Fixture | 90.8 | 0.0 | 90.8 |
| Total | Lumens | 24409.0 | 0.0 | 24409.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 225.9 | 0.9 |
| 10°-20° | 680.0 | 2.8 |
| 20°-30° | 1153.1 | 4.7 |
| 30°-40° | 1917.2 | 7.9 |
| 40°-50° | 3347.5 | 13.7 |
| 50°-60° | 6539.8 | 26.8 |
| 60°-70° | 7587.7 | 31.1 |
| 70°-80° | 2763.1 | 11.3 |
| 80°-90° | 194.7 | 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° | 24409.0 | 100.0 |
| 0°-180° | 24409.0 | 100.0 |

Coefficient of Utilization



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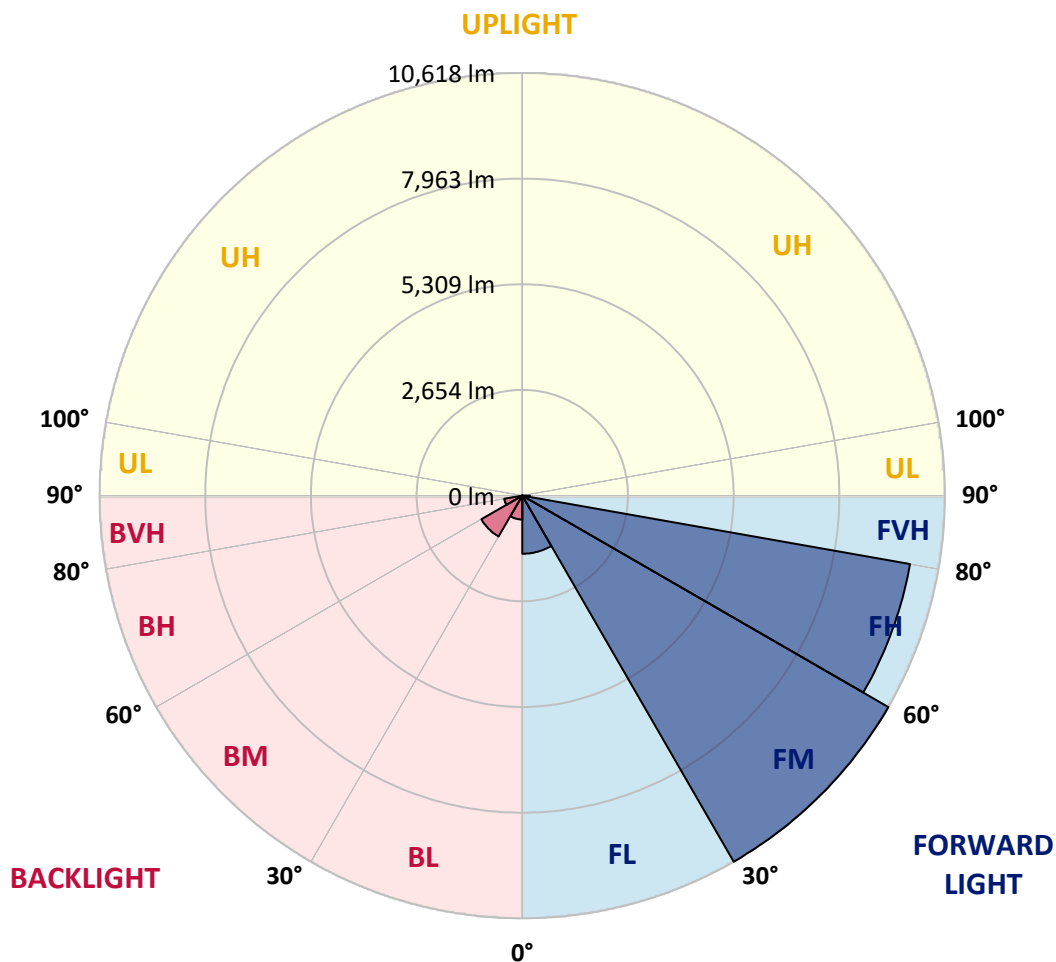
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1459.9 | 6.0 | | | |
| FM | (30°-60°) | 10618.0 | 43.5 | | | |
| FH | (60°-80°) | 9890.2 | 40.5 | | | G4/12000 |
| FVH | (80°-90°) | 192.0 | 0.8 | | | G2/225 |
| BL | (0°-30°) | 599.2 | 2.5 | B2/1000 | | |
| BM | (30°-60°) | 1186.5 | 4.9 | B2/2500 | | |
| BH | (60°-80°) | 460.5 | 1.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 2.6 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2271.7 | 2271.7 | 2271.7 | 2271.7 | 2271.7 | 2271.7 | 2271.7 | 2271.7 | 2271.7 | 2271.7 | 2271.7 |
| 2.5° | 2557.1 | 2545.9 | 2540.3 | 2510.5 | 2488.1 | 2460.1 | 2460.1 | 2424.7 | 2383.7 | 2338.9 | 2297.9 |
| 5° | 2842.5 | 2823.8 | 2799.6 | 2773.5 | 2721.3 | 2646.6 | 2646.6 | 2572.0 | 2486.2 | 2409.8 | 2325.8 |
| 7.5° | 3116.7 | 3099.9 | 3058.8 | 3008.5 | 2922.7 | 2844.4 | 2838.8 | 2730.6 | 2628.0 | 2512.4 | 2393.0 |
| 10° | 3357.3 | 3344.2 | 3308.8 | 3211.8 | 3122.3 | 3019.7 | 3017.8 | 2896.6 | 2777.2 | 2635.5 | 2488.1 |
| 12.5° | 3525.1 | 3527.0 | 3480.4 | 3387.1 | 3271.5 | 3174.5 | 3167.0 | 3047.7 | 2922.7 | 2769.7 | 2588.8 |
| 15° | 3644.5 | 3644.5 | 3596.0 | 3491.6 | 3387.1 | 3301.3 | 3293.9 | 3189.4 | 3060.7 | 2894.7 | 2698.9 |
| 17.5° | 3678.1 | 3689.3 | 3637.0 | 3543.8 | 3459.8 | 3385.2 | 3383.4 | 3295.7 | 3193.1 | 3032.7 | 2810.8 |
| 20° | 3665.0 | 3676.2 | 3635.2 | 3562.4 | 3504.6 | 3461.7 | 3456.1 | 3420.7 | 3325.6 | 3174.5 | 2930.1 |
| 22.5° | 3637.0 | 3648.2 | 3618.4 | 3575.5 | 3547.5 | 3560.6 | 3551.2 | 3581.1 | 3530.7 | 3347.9 | 3071.9 |
| 25° | 3642.6 | 3653.8 | 3631.4 | 3607.2 | 3631.4 | 3711.6 | 3735.9 | 3864.6 | 3819.8 | 3568.0 | 3224.8 |
| 27.5° | 3818.0 | 3840.3 | 3808.6 | 3819.8 | 3905.6 | 4092.1 | 4138.8 | 4360.7 | 4163.0 | 3847.8 | 3463.6 |
| 30° | 4207.8 | 4192.9 | 4133.2 | 4187.3 | 4485.7 | 4881.1 | 4868.0 | 4832.6 | 4523.0 | 4170.5 | 3747.1 |
| 32.5° | 4562.2 | 4549.1 | 4545.4 | 4778.5 | 5319.4 | 5511.5 | 5502.2 | 5159.0 | 4845.7 | 4539.8 | 4026.9 |
| 35° | 4705.8 | 4655.4 | 4644.2 | 5209.4 | 6114.0 | 5860.3 | 5802.5 | 5293.3 | 5237.3 | 4942.6 | 4312.2 |
| 37.5° | 5138.5 | 5103.0 | 4929.6 | 5280.2 | 5796.9 | 5712.9 | 5668.2 | 5524.6 | 5655.1 | 5298.9 | 4634.9 |
| 40° | 6030.0 | 5931.2 | 5774.5 | 5431.3 | 5347.4 | 5382.8 | 5427.6 | 5821.1 | 6149.4 | 5785.7 | 5065.7 |
| 42.5° | 7137.9 | 7115.5 | 6824.6 | 6184.8 | 5556.3 | 5604.8 | 5662.6 | 6440.4 | 6860.0 | 6518.7 | 5768.9 |
| 45° | 8467.8 | 8499.5 | 8079.8 | 7324.4 | 6500.0 | 6541.1 | 6625.0 | 7354.3 | 7822.4 | 7658.3 | 6874.9 |
| 47.5° | 9676.4 | 9652.1 | 9510.4 | 8725.2 | 7964.2 | 7872.8 | 8008.9 | 8527.5 | 9154.1 | 9180.3 | 8247.7 |
| 50° | 10892.5 | 11021.2 | 10810.4 | 10502.6 | 9937.5 | 9745.4 | 9695.0 | 9948.7 | 10903.7 | 10778.7 | 9896.5 |
| 52.5° | 12640.1 | 12707.3 | 12311.8 | 12233.5 | 12362.2 | 11739.2 | 11688.9 | 11750.4 | 12604.7 | 12175.7 | 11131.2 |
| 55° | 13738.7 | 13699.5 | 13552.2 | 14163.9 | 14673.1 | 13895.4 | 13831.9 | 13583.9 | 14016.6 | 13162.3 | 12319.3 |
| 57.5° | 14085.6 | 14141.6 | 14484.7 | 15590.8 | 16795.7 | 16135.4 | 16019.8 | 15314.7 | 15035.0 | 14081.9 | 13412.3 |
| 60° | 13930.8 | 14033.4 | 14773.8 | 16418.9 | 18090.1 | 17991.2 | 17892.4 | 16708.0 | 15766.1 | 14850.3 | 14178.9 |
| 62.5° | 12828.5 | 12972.1 | 14156.5 | 16271.5 | 18528.4 | 19145.7 | 19022.6 | 17577.2 | 16252.9 | 15223.3 | 14313.1 |
| 65° | 10750.7 | 10857.0 | 12558.0 | 14934.2 | 17905.4 | 19541.2 | 19496.4 | 17849.5 | 16329.4 | 14882.0 | 13393.6 |
| 67.5° | 7663.9 | 8025.7 | 9601.8 | 12586.0 | 16062.7 | 18866.0 | 18942.4 | 17523.1 | 15611.3 | 13406.7 | 11092.0 |
| 70° | 4817.7 | 5063.9 | 6194.2 | 9010.5 | 12877.0 | 16551.3 | 16803.1 | 16029.1 | 13548.4 | 10450.4 | 7425.2 |
| 72.5° | 2297.9 | 2480.6 | 3286.4 | 5703.6 | 9088.9 | 13022.5 | 13222.0 | 13158.6 | 10476.5 | 6584.0 | 3831.0 |
| 75° | 1024.0 | 1093.0 | 1568.6 | 2911.5 | 5867.8 | 8753.1 | 9269.8 | 9355.6 | 6546.7 | 3221.1 | 1490.3 |
| 77.5° | 522.2 | 524.1 | 734.9 | 1410.1 | 2930.1 | 5222.4 | 5325.0 | 5625.3 | 3549.4 | 1419.4 | 518.5 |
| 80° | 277.9 | 296.6 | 389.8 | 665.9 | 1520.1 | 2572.0 | 2559.0 | 2812.6 | 1574.2 | 695.7 | 173.5 |
| 82.5° | 125.0 | 138.0 | 220.1 | 348.8 | 742.3 | 975.5 | 1051.9 | 1150.8 | 675.2 | 443.9 | 76.5 |
| 85° | 37.3 | 44.8 | 108.2 | 175.3 | 268.6 | 281.6 | 315.2 | 406.6 | 382.4 | 315.2 | 39.2 |
| 87.5° | 5.6 | 5.6 | 44.8 | 48.5 | 39.2 | 50.4 | 52.2 | 57.8 | 123.1 | 115.6 | 20.5 |
| 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° | 2271.7 | 2271.7 | 2271.7 | 2271.7 | 2271.7 | 2271.7 | 2271.7 | 2271.7 | 2271.7 | 2271.7 | 2271.7 |
| 2.5° | 2275.5 | 2262.4 | 2215.8 | 2176.6 | 2143.1 | 2122.5 | 2098.3 | 2083.4 | 2075.9 | 2070.3 | 2072.2 |
| 5° | 2284.8 | 2253.1 | 2172.9 | 2109.5 | 2061.0 | 2008.8 | 1973.3 | 1952.8 | 1943.5 | 1928.6 | 1928.6 |
| 7.5° | 2337.0 | 2286.7 | 2174.8 | 2077.8 | 1993.8 | 1923.0 | 1855.8 | 1831.6 | 1814.8 | 1811.1 | 1807.3 |
| 10° | 2411.6 | 2348.2 | 2195.3 | 2061.0 | 1941.6 | 1844.6 | 1749.5 | 1665.6 | 1600.3 | 1561.1 | 1555.5 |
| 12.5° | 2504.9 | 2413.5 | 2227.0 | 2049.8 | 1896.9 | 1725.3 | 1473.5 | 1303.7 | 1190.0 | 1154.5 | 1160.1 |
| 15° | 2590.7 | 2491.8 | 2258.7 | 2040.5 | 1814.8 | 1430.6 | 1145.2 | 951.2 | 893.4 | 887.8 | 889.7 |
| 17.5° | 2693.3 | 2575.8 | 2296.0 | 2027.4 | 1589.1 | 1093.0 | 850.5 | 798.3 | 809.5 | 828.1 | 826.3 |
| 20° | 2799.6 | 2665.3 | 2340.8 | 1949.1 | 1268.3 | 822.5 | 751.7 | 757.2 | 774.0 | 790.8 | 794.6 |
| 22.5° | 2913.4 | 2767.9 | 2393.0 | 1760.7 | 968.0 | 716.2 | 712.5 | 719.9 | 736.7 | 755.4 | 759.1 |
| 25° | 3070.0 | 2896.6 | 2432.2 | 1514.5 | 733.0 | 662.1 | 669.6 | 682.6 | 697.6 | 718.1 | 721.8 |
| 27.5° | 3271.5 | 3070.0 | 2452.7 | 1193.7 | 634.2 | 613.6 | 615.5 | 634.2 | 652.8 | 671.5 | 671.5 |
| 30° | 3532.6 | 3277.1 | 2411.6 | 902.7 | 585.7 | 567.0 | 559.5 | 570.7 | 595.0 | 613.6 | 615.5 |
| 32.5° | 3765.7 | 3472.9 | 2303.5 | 690.1 | 550.2 | 524.1 | 505.5 | 507.3 | 516.6 | 527.8 | 529.7 |
| 35° | 3998.9 | 3663.2 | 2118.8 | 580.1 | 512.9 | 483.1 | 455.1 | 440.2 | 432.7 | 427.1 | 432.7 |
| 37.5° | 4297.3 | 3900.0 | 1872.6 | 527.8 | 481.2 | 443.9 | 404.7 | 373.0 | 346.9 | 330.1 | 333.9 |
| 40° | 4681.5 | 4228.3 | 1581.6 | 494.3 | 451.4 | 406.6 | 354.4 | 313.3 | 268.6 | 253.7 | 246.2 |
| 42.5° | 5315.7 | 4726.3 | 1275.8 | 466.3 | 421.5 | 367.4 | 302.2 | 246.2 | 205.2 | 190.2 | 194.0 |
| 45° | 6317.3 | 5354.8 | 982.9 | 436.4 | 391.7 | 324.5 | 253.7 | 194.0 | 160.4 | 152.9 | 156.7 |
| 47.5° | 7645.2 | 6168.0 | 757.2 | 402.9 | 354.4 | 277.9 | 199.6 | 152.9 | 132.4 | 130.6 | 128.7 |
| 50° | 8894.9 | 6925.3 | 632.3 | 365.6 | 309.6 | 231.3 | 164.1 | 128.7 | 115.6 | 113.8 | 113.8 |
| 52.5° | 10025.2 | 7468.1 | 514.8 | 322.7 | 261.1 | 190.2 | 138.0 | 113.8 | 102.6 | 97.0 | 97.0 |
| 55° | 11030.5 | 7822.4 | 417.8 | 270.4 | 205.2 | 151.1 | 119.4 | 102.6 | 89.5 | 82.1 | 80.2 |
| 57.5° | 11789.6 | 7865.3 | 313.3 | 216.4 | 152.9 | 117.5 | 102.6 | 89.5 | 74.6 | 65.3 | 61.5 |
| 60° | 12114.1 | 7494.2 | 231.3 | 164.1 | 113.8 | 93.3 | 82.1 | 72.7 | 56.0 | 46.6 | 44.8 |
| 62.5° | 11787.7 | 6772.4 | 171.6 | 125.0 | 87.7 | 69.0 | 57.8 | 54.1 | 39.2 | 28.0 | 26.1 |
| 65° | 10618.3 | 5729.7 | 136.2 | 95.1 | 65.3 | 50.4 | 37.3 | 35.4 | 24.2 | 13.1 | 11.2 |
| 67.5° | 8506.9 | 4487.5 | 108.2 | 70.9 | 46.6 | 33.6 | 24.2 | 22.4 | 13.1 | 3.7 | 3.7 |
| 70° | 5532.0 | 2868.6 | 87.7 | 52.2 | 29.8 | 22.4 | 14.9 | 11.2 | 7.5 | 1.9 | 0.0 |
| 72.5° | 2736.2 | 1341.0 | 70.9 | 41.0 | 20.5 | 11.2 | 5.6 | 3.7 | 5.6 | 0.0 | 0.0 |
| 75° | 1061.3 | 477.5 | 52.2 | 28.0 | 11.2 | 5.6 | 3.7 | 0.0 | 1.9 | 0.0 | 0.0 |
| 77.5° | 352.5 | 158.5 | 31.7 | 14.9 | 7.5 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 130.6 | 61.5 | 16.8 | 9.3 | 3.7 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 52.2 | 24.2 | 11.2 | 7.5 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 26.1 | 14.9 | 7.5 | 5.6 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 18.7 | 11.2 | 7.5 | 5.6 | 3.7 | 1.9 | 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)