

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: STREETWORKS

Report Number: P191878

Luminaire Tested: **GAN-AF-10-LED-U-SL2-7050-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-SL2-7050-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38028 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 323
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: 28.75 FT

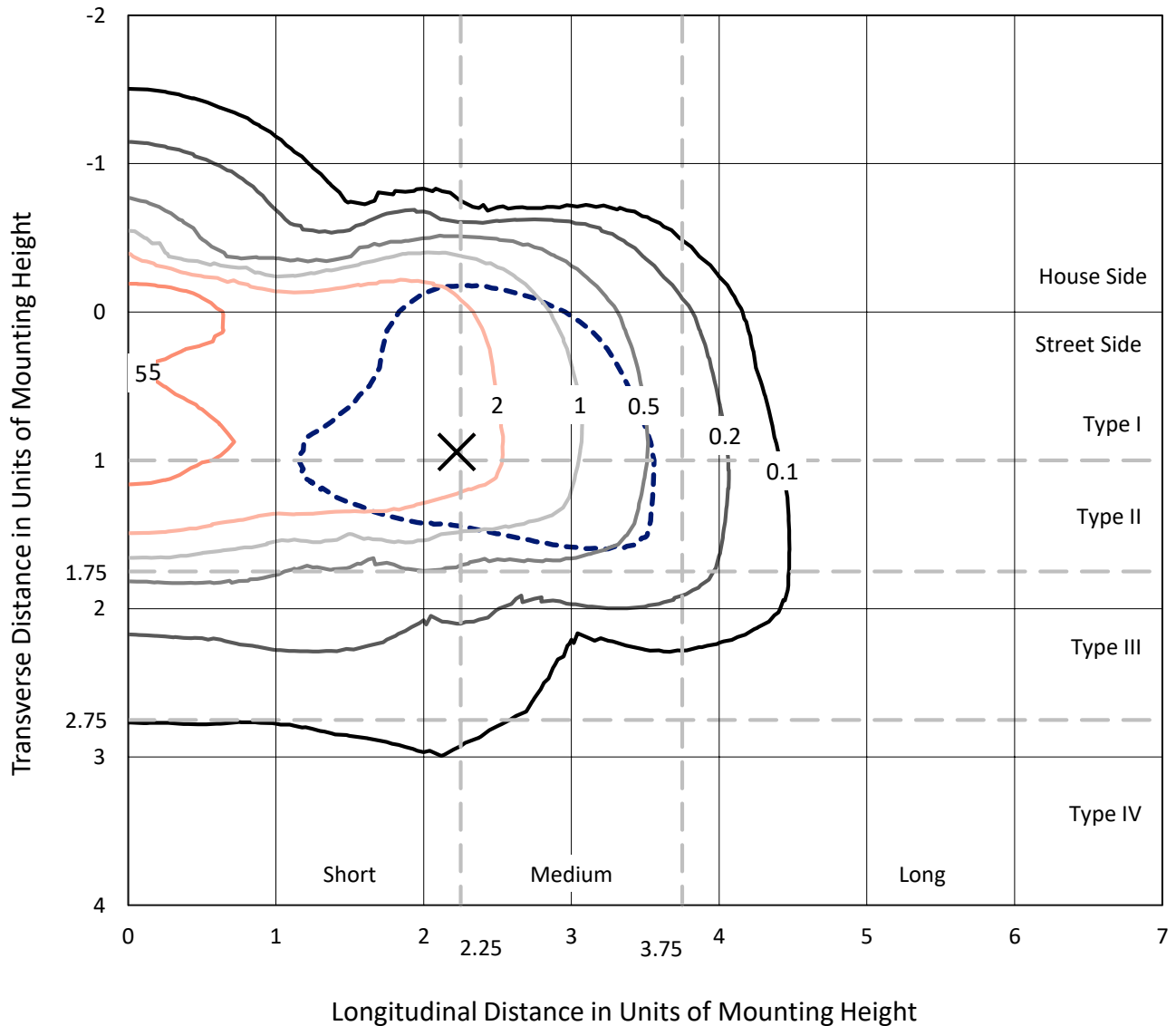


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

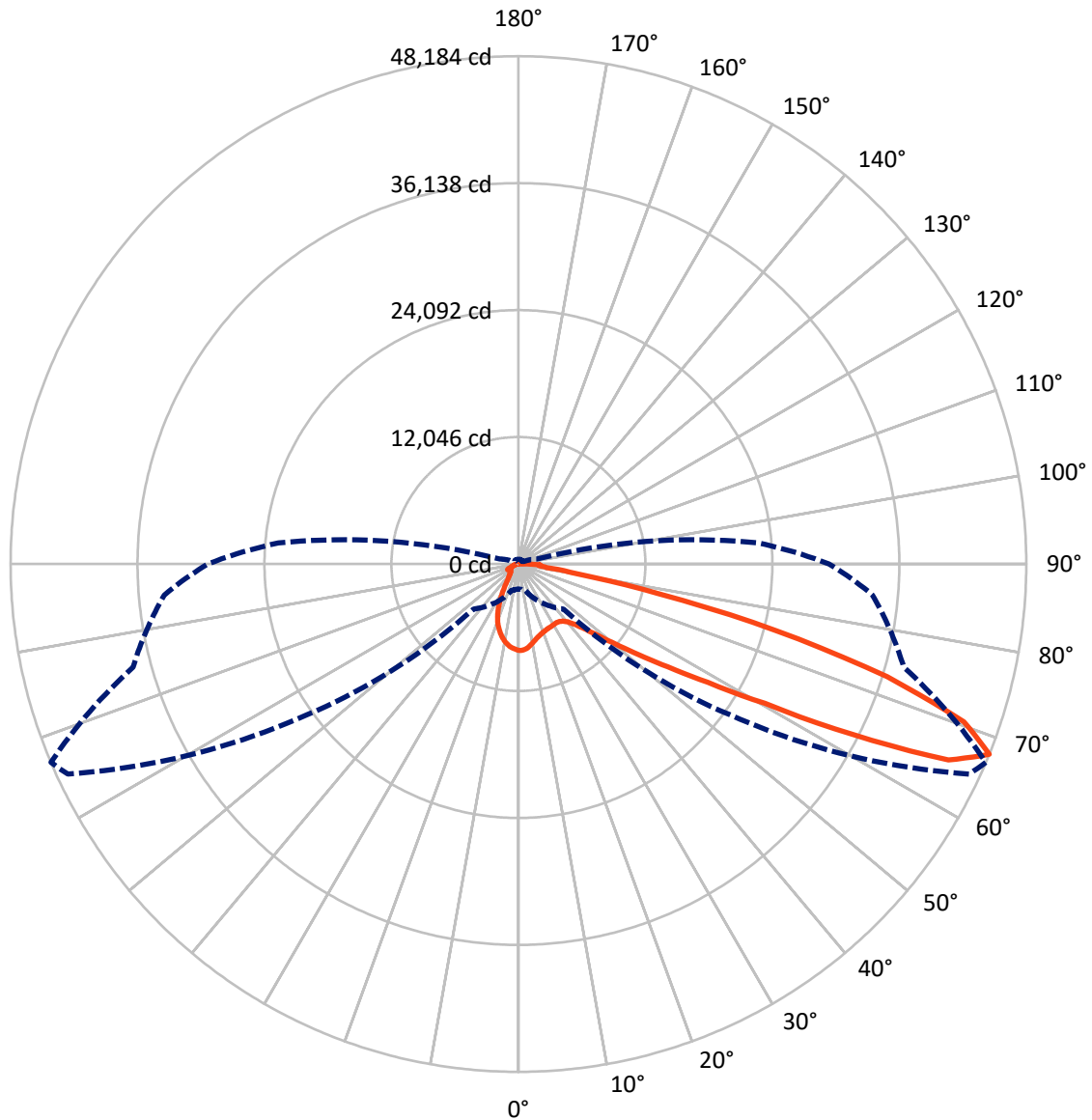


Based on 30 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6300.8 | 0.0 | 6300.8 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 31727.2 | 0.0 | 31727.2 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 38028.0 | 0.0 | 38028.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 699.8 | 1.8 |
| 10°-20° | 1619.2 | 4.3 |
| 20°-30° | 2194.9 | 5.8 |
| 30°-40° | 3120.3 | 8.2 |
| 40°-50° | 5220.3 | 13.7 |
| 50°-60° | 8258.5 | 21.7 |
| 60°-70° | 10520.5 | 27.7 |
| 70°-80° | 5510.6 | 14.5 |
| 80°-90° | 883.8 | 2.3 |
| 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° | 38028.0 | 100.0 |
| 0°-180° | 38028.0 | 100.0 |

Coefficient of Utilization



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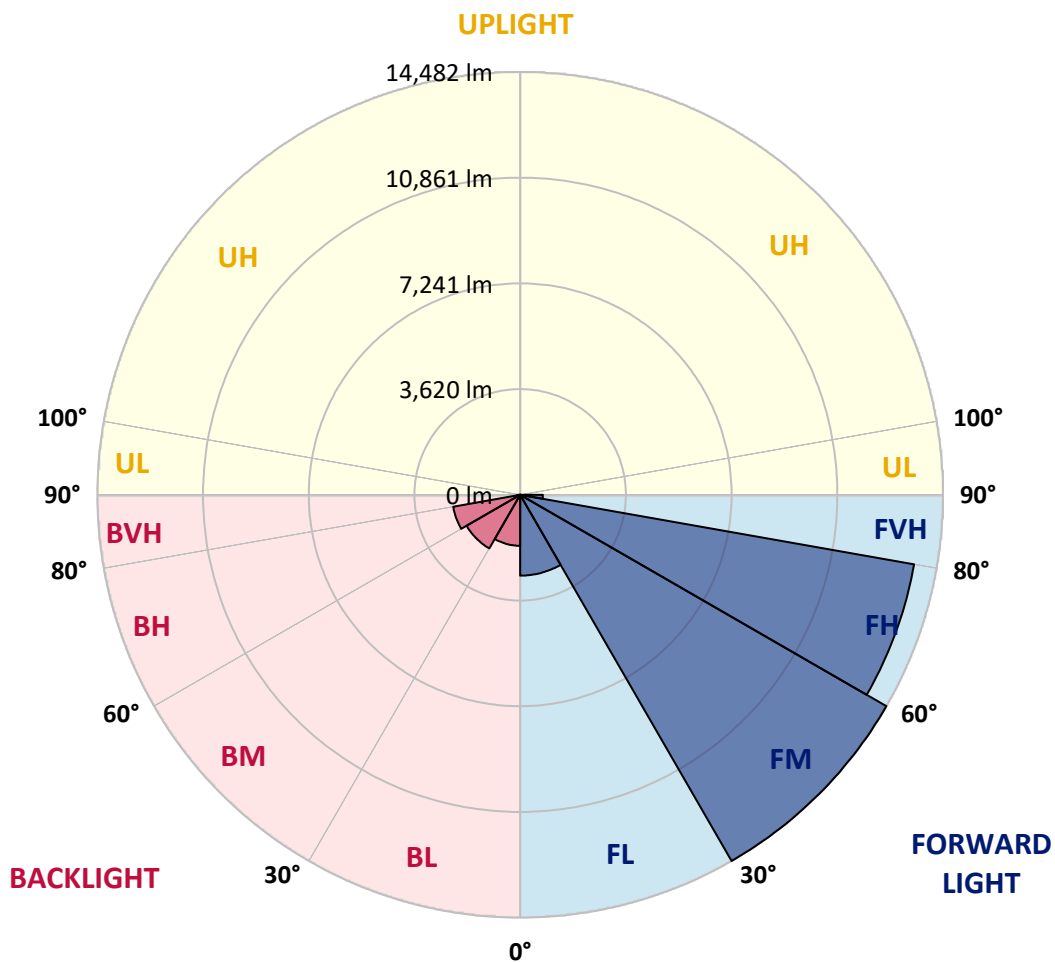
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2767.5 | 7.3 | | | |
| FM | (30°-60°) | 14481.9 | 38.1 | | | |
| FH | (60°-80°) | 13700.7 | 36.0 | | | G5 |
| FVH | (80°-90°) | 777.1 | 2.0 | | | G5 |
| BL | (0°-30°) | 1746.4 | 4.6 | B3/2500 | | |
| BM | (30°-60°) | 2117.3 | 5.6 | B2/2500 | | |
| BH | (60°-80°) | 2330.5 | 6.1 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 106.7 | 0.3 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8202.5 | 8202.5 | 8202.5 | 8202.5 | 8202.5 | 8202.5 | 8202.5 | 8202.5 | 8202.5 | 8202.5 | 8202.5 |
| 2.5° | 7865.0 | 7878.1 | 7919.4 | 7945.6 | 8063.8 | 8114.4 | 8150.0 | 8185.7 | 8191.3 | 8208.2 | 8191.3 |
| 5° | 7039.9 | 7068.0 | 7144.9 | 7231.1 | 7459.9 | 7640.0 | 7829.4 | 8026.3 | 8061.9 | 8189.4 | 8225.1 |
| 7.5° | 6400.4 | 6392.9 | 6456.6 | 6559.8 | 6794.2 | 7043.6 | 7375.5 | 7767.5 | 7844.4 | 8131.3 | 8270.1 |
| 10° | 5933.4 | 5927.8 | 5995.3 | 6102.2 | 6325.4 | 6561.7 | 6936.7 | 7473.1 | 7581.8 | 8039.4 | 8313.2 |
| 12.5° | 5588.4 | 5590.3 | 5657.8 | 5775.9 | 6002.8 | 6241.0 | 6621.7 | 7188.0 | 7326.8 | 7932.5 | 8358.2 |
| 15° | 5359.6 | 5374.6 | 5429.0 | 5554.6 | 5775.9 | 6014.1 | 6387.3 | 6974.2 | 7129.9 | 7848.1 | 8408.8 |
| 17.5° | 5282.7 | 5307.1 | 5325.8 | 5417.7 | 5607.1 | 5845.3 | 6211.0 | 6816.7 | 6981.7 | 7790.0 | 8453.8 |
| 20° | 5354.0 | 5382.1 | 5346.5 | 5378.4 | 5498.4 | 5708.4 | 6072.2 | 6692.9 | 6861.7 | 7724.3 | 8459.5 |
| 22.5° | 5659.6 | 5685.9 | 5580.9 | 5489.0 | 5481.5 | 5609.0 | 5957.8 | 6595.4 | 6769.8 | 7675.6 | 8461.3 |
| 25° | 6197.9 | 6214.7 | 6038.5 | 5824.7 | 5616.5 | 5573.4 | 5877.2 | 6527.9 | 6713.6 | 7632.5 | 8425.7 |
| 27.5° | 6858.0 | 6871.1 | 6668.6 | 6353.5 | 5935.3 | 5657.8 | 5849.0 | 6488.5 | 6681.7 | 7595.0 | 8365.7 |
| 30° | 7660.6 | 7722.5 | 7450.6 | 7053.0 | 6443.5 | 5907.2 | 5905.3 | 6467.9 | 6646.1 | 7531.2 | 8247.6 |
| 32.5° | 8482.0 | 8508.2 | 8320.7 | 7917.5 | 7128.0 | 6346.0 | 6062.8 | 6482.9 | 6636.7 | 7454.3 | 8097.5 |
| 35° | 9314.6 | 9348.4 | 9226.5 | 8902.0 | 8063.8 | 6989.2 | 6370.4 | 6571.0 | 6694.8 | 7428.0 | 7992.5 |
| 37.5° | 10392.9 | 10437.9 | 10269.1 | 9894.1 | 9202.1 | 7861.2 | 6882.3 | 6792.3 | 6873.0 | 7503.1 | 7960.6 |
| 40° | 12097.5 | 12076.9 | 11583.7 | 11024.9 | 10447.3 | 8977.0 | 7613.7 | 7167.4 | 7214.3 | 7745.0 | 8058.1 |
| 42.5° | 14081.6 | 14031.0 | 13181.5 | 12303.8 | 11816.2 | 10327.3 | 8581.4 | 7818.1 | 7808.7 | 8221.3 | 8401.3 |
| 45° | 15664.4 | 15623.1 | 14858.0 | 13775.9 | 13385.9 | 11865.0 | 9832.2 | 8787.6 | 8718.3 | 8977.0 | 9035.2 |
| 47.5° | 16521.4 | 16523.2 | 16082.5 | 15199.3 | 15189.9 | 13819.1 | 11439.3 | 10190.4 | 10070.3 | 10192.2 | 10130.4 |
| 50° | 16221.3 | 16260.7 | 16213.8 | 15932.5 | 16836.4 | 16380.7 | 13537.8 | 12146.3 | 11904.4 | 12024.4 | 11786.2 |
| 52.5° | 14769.8 | 14820.5 | 15098.0 | 15529.3 | 17528.4 | 19476.8 | 16620.8 | 14576.7 | 14295.4 | 14252.3 | 13987.8 |
| 55° | 12196.9 | 12258.8 | 12825.2 | 13997.2 | 16952.7 | 21556.5 | 21485.3 | 17674.7 | 17226.5 | 16819.5 | 16707.0 |
| 57.5° | 8407.0 | 8510.1 | 9421.5 | 11161.8 | 15090.5 | 22184.8 | 27278.1 | 22091.0 | 21179.6 | 19758.1 | 19784.4 |
| 60° | 4738.9 | 4858.9 | 5933.4 | 7514.3 | 11332.4 | 21502.1 | 31685.0 | 28780.2 | 26856.1 | 23199.3 | 23394.3 |
| 62.5° | 3013.6 | 3143.0 | 3958.8 | 5220.8 | 6799.8 | 17826.6 | 33490.9 | 38079.8 | 35636.3 | 27441.2 | 27632.5 |
| 65° | 2439.8 | 2496.0 | 2880.5 | 4309.4 | 4937.7 | 10739.8 | 32120.1 | 45740.4 | 44829.0 | 32825.2 | 31932.5 |
| 67.5° | 2381.6 | 2400.4 | 2599.2 | 3617.4 | 4735.1 | 6036.6 | 25620.3 | 47173.1 | 48183.9 | 37852.9 | 33723.5 |
| 70° | 2353.5 | 2419.1 | 2929.2 | 3452.4 | 4534.5 | 5091.4 | 15396.2 | 43246.2 | 44842.1 | 39167.4 | 31340.0 |
| 72.5° | 1142.1 | 1138.3 | 1474.0 | 3122.4 | 5108.3 | 5280.8 | 7910.0 | 34991.2 | 36592.7 | 33933.5 | 25753.4 |
| 75° | 920.8 | 842.0 | 804.5 | 1143.9 | 4911.4 | 5453.4 | 5040.8 | 24076.9 | 25235.9 | 22751.1 | 15831.3 |
| 77.5° | 873.9 | 780.1 | 714.5 | 716.4 | 2076.0 | 5783.4 | 4270.0 | 13325.9 | 13663.4 | 10276.6 | 4337.6 |
| 80° | 723.9 | 637.6 | 590.7 | 665.7 | 1005.2 | 5507.7 | 4617.0 | 6031.0 | 5534.0 | 2524.1 | 1444.0 |
| 82.5° | 502.6 | 457.6 | 444.4 | 558.8 | 804.5 | 3925.0 | 5369.0 | 3240.5 | 2717.3 | 1263.9 | 890.8 |
| 85° | 320.7 | 273.8 | 303.8 | 406.9 | 626.3 | 1811.5 | 5530.2 | 2526.0 | 2008.4 | 802.6 | 502.6 |
| 87.5° | 148.1 | 120.0 | 150.0 | 225.0 | 408.8 | 624.5 | 5262.1 | 2837.3 | 2068.5 | 423.8 | 316.9 |
| 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° | 8202.5 | 8202.5 | 8202.5 | 8202.5 | 8202.5 | 8202.5 | 8202.5 | 8202.5 | 8202.5 | 8202.5 | 8202.5 |
| 2.5° | 8206.3 | 8170.7 | 8142.5 | 8090.0 | 8031.9 | 7975.6 | 7925.0 | 7861.2 | 7842.5 | 7825.6 | 7851.9 |
| 5° | 8232.6 | 8196.9 | 8093.8 | 7932.5 | 7754.4 | 7587.4 | 7420.5 | 7278.0 | 7189.9 | 7141.1 | 7169.3 |
| 7.5° | 8271.9 | 8221.3 | 8007.5 | 7711.2 | 7390.5 | 7098.0 | 6796.1 | 6554.2 | 6376.0 | 6291.6 | 6316.0 |
| 10° | 8307.6 | 8210.0 | 7861.2 | 7416.8 | 6948.0 | 6512.9 | 6036.6 | 5642.8 | 5350.2 | 5196.4 | 5234.0 |
| 12.5° | 8322.6 | 8166.9 | 7656.8 | 7049.2 | 6406.0 | 5768.4 | 5067.1 | 4478.2 | 4058.1 | 3904.4 | 3872.5 |
| 15° | 8337.6 | 8118.2 | 7431.8 | 6631.0 | 5751.5 | 4849.5 | 3866.9 | 3161.7 | 2812.9 | 2736.1 | 2719.2 |
| 17.5° | 8341.3 | 8033.8 | 7176.8 | 6177.2 | 4984.5 | 3756.2 | 2644.2 | 2196.0 | 2197.8 | 2321.6 | 2336.6 |
| 20° | 8301.9 | 7908.1 | 6867.3 | 5612.8 | 4065.6 | 2597.3 | 1815.3 | 1738.4 | 2021.6 | 2331.0 | 2368.5 |
| 22.5° | 8211.9 | 7741.2 | 6516.7 | 4954.5 | 3013.6 | 1710.3 | 1404.6 | 1489.0 | 1854.7 | 2233.5 | 2276.6 |
| 25° | 8097.5 | 7538.7 | 6102.2 | 4191.3 | 1995.3 | 1222.7 | 1177.7 | 1280.8 | 1528.4 | 1781.5 | 1805.9 |
| 27.5° | 7941.9 | 7298.7 | 5637.1 | 3317.4 | 1295.8 | 1007.0 | 1037.0 | 1106.4 | 1207.7 | 1320.2 | 1331.5 |
| 30° | 7741.2 | 7011.7 | 5140.2 | 2419.1 | 978.9 | 905.8 | 948.9 | 986.4 | 1029.5 | 1093.3 | 1098.9 |
| 32.5° | 7510.6 | 6736.1 | 4630.1 | 1670.9 | 868.3 | 853.3 | 887.0 | 905.8 | 939.5 | 978.9 | 982.7 |
| 35° | 7317.4 | 6473.5 | 4101.3 | 1181.4 | 821.4 | 813.9 | 836.4 | 843.9 | 875.8 | 918.9 | 922.6 |
| 37.5° | 7206.8 | 6259.7 | 3555.6 | 952.7 | 789.5 | 778.2 | 791.4 | 791.4 | 836.4 | 900.1 | 909.5 |
| 40° | 7214.3 | 6141.6 | 3009.9 | 860.8 | 763.2 | 748.2 | 750.1 | 750.1 | 808.3 | 877.6 | 883.3 |
| 42.5° | 7418.7 | 6171.6 | 2526.0 | 825.1 | 742.6 | 725.7 | 716.4 | 722.0 | 770.7 | 815.8 | 819.5 |
| 45° | 7898.7 | 6383.5 | 2072.2 | 802.6 | 722.0 | 716.4 | 695.7 | 693.9 | 712.6 | 733.2 | 733.2 |
| 47.5° | 8686.4 | 6801.7 | 1764.7 | 787.6 | 705.1 | 703.2 | 678.9 | 654.5 | 652.6 | 660.1 | 660.1 |
| 50° | 9967.2 | 7521.8 | 1558.4 | 770.7 | 693.9 | 678.9 | 650.7 | 613.2 | 600.1 | 605.7 | 605.7 |
| 52.5° | 11887.5 | 8806.4 | 1479.6 | 748.2 | 669.5 | 645.1 | 613.2 | 575.7 | 564.5 | 566.3 | 566.3 |
| 55° | 14406.0 | 10779.2 | 1468.4 | 722.0 | 643.2 | 603.8 | 577.6 | 549.5 | 536.3 | 540.1 | 540.1 |
| 57.5° | 17483.4 | 13507.8 | 1669.0 | 680.7 | 607.6 | 562.6 | 547.6 | 528.8 | 519.5 | 525.1 | 523.2 |
| 60° | 21224.6 | 17078.3 | 2475.4 | 637.6 | 572.0 | 525.1 | 525.1 | 510.1 | 502.6 | 508.2 | 506.3 |
| 62.5° | 25534.0 | 21179.6 | 3480.6 | 605.7 | 534.5 | 495.1 | 502.6 | 495.1 | 487.6 | 491.3 | 489.5 |
| 65° | 29355.9 | 23851.9 | 3259.3 | 581.3 | 497.0 | 466.9 | 480.1 | 476.3 | 470.7 | 474.4 | 472.6 |
| 67.5° | 29466.5 | 22861.7 | 1830.3 | 555.1 | 461.3 | 438.8 | 457.6 | 455.7 | 451.9 | 455.7 | 453.8 |
| 70° | 26297.3 | 19304.3 | 1031.4 | 506.3 | 423.8 | 405.1 | 431.3 | 429.4 | 425.7 | 433.2 | 431.3 |
| 72.5° | 21069.0 | 14008.5 | 753.9 | 446.3 | 386.3 | 369.4 | 399.4 | 397.6 | 397.6 | 408.8 | 403.2 |
| 75° | 12123.8 | 7208.6 | 602.0 | 382.6 | 346.9 | 333.8 | 360.1 | 361.9 | 365.7 | 380.7 | 369.4 |
| 77.5° | 3456.2 | 2246.6 | 491.3 | 324.4 | 298.2 | 292.5 | 318.8 | 322.6 | 324.4 | 341.3 | 326.3 |
| 80° | 1284.6 | 1035.2 | 405.1 | 271.9 | 243.8 | 245.7 | 270.0 | 275.7 | 277.5 | 294.4 | 275.7 |
| 82.5° | 819.5 | 682.6 | 328.2 | 210.0 | 191.3 | 189.4 | 219.4 | 226.9 | 226.9 | 228.8 | 217.5 |
| 85° | 478.2 | 408.8 | 247.5 | 151.9 | 135.0 | 129.4 | 163.2 | 176.3 | 170.7 | 166.9 | 159.4 |
| 87.5° | 320.7 | 281.3 | 151.9 | 84.4 | 73.1 | 69.4 | 95.6 | 105.0 | 101.3 | 95.6 | 90.0 |
| 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)