

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: P649445

Luminaire Tested: **GLAN-SA5D-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P649445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5D-835-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26480.3 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

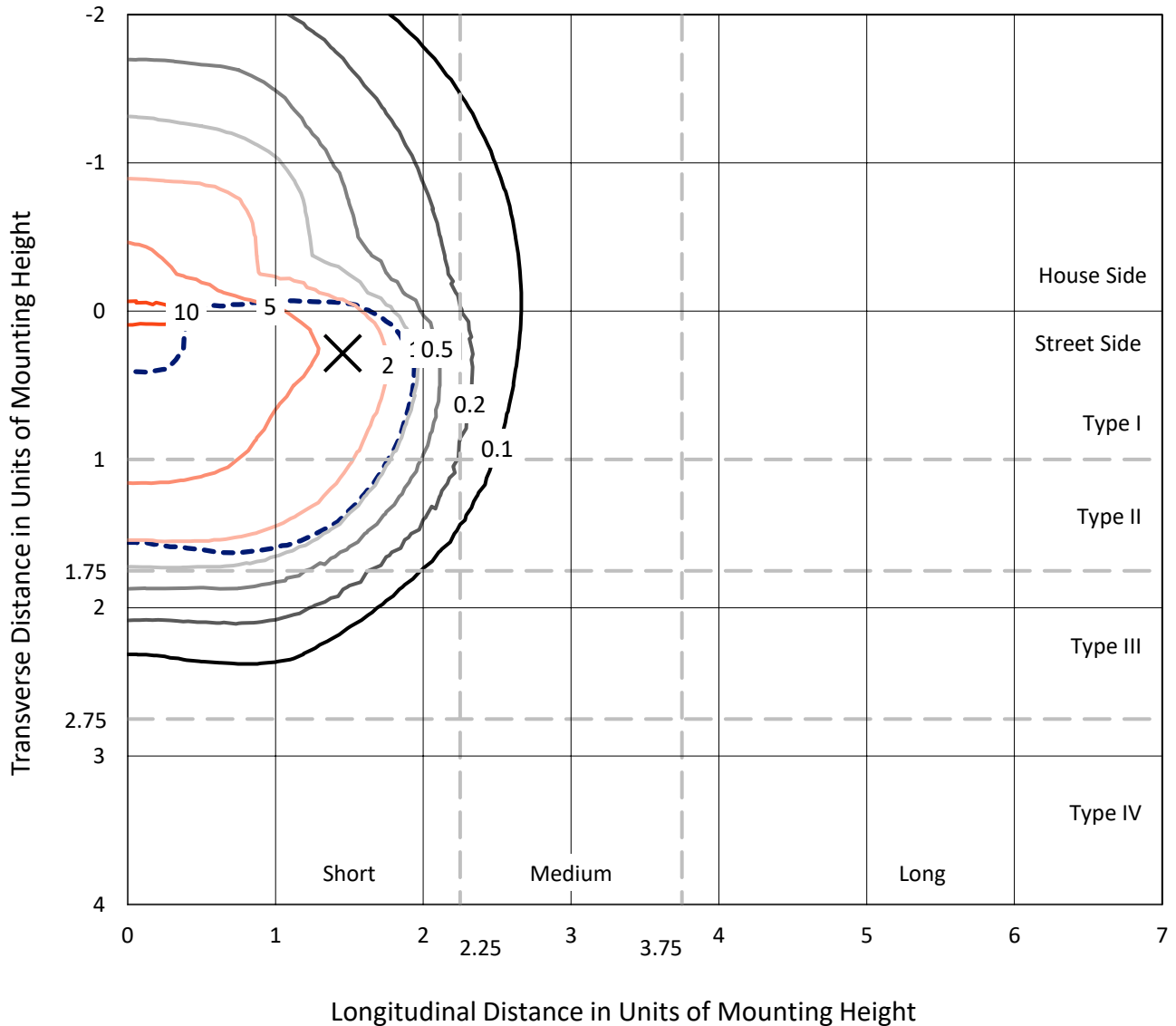
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

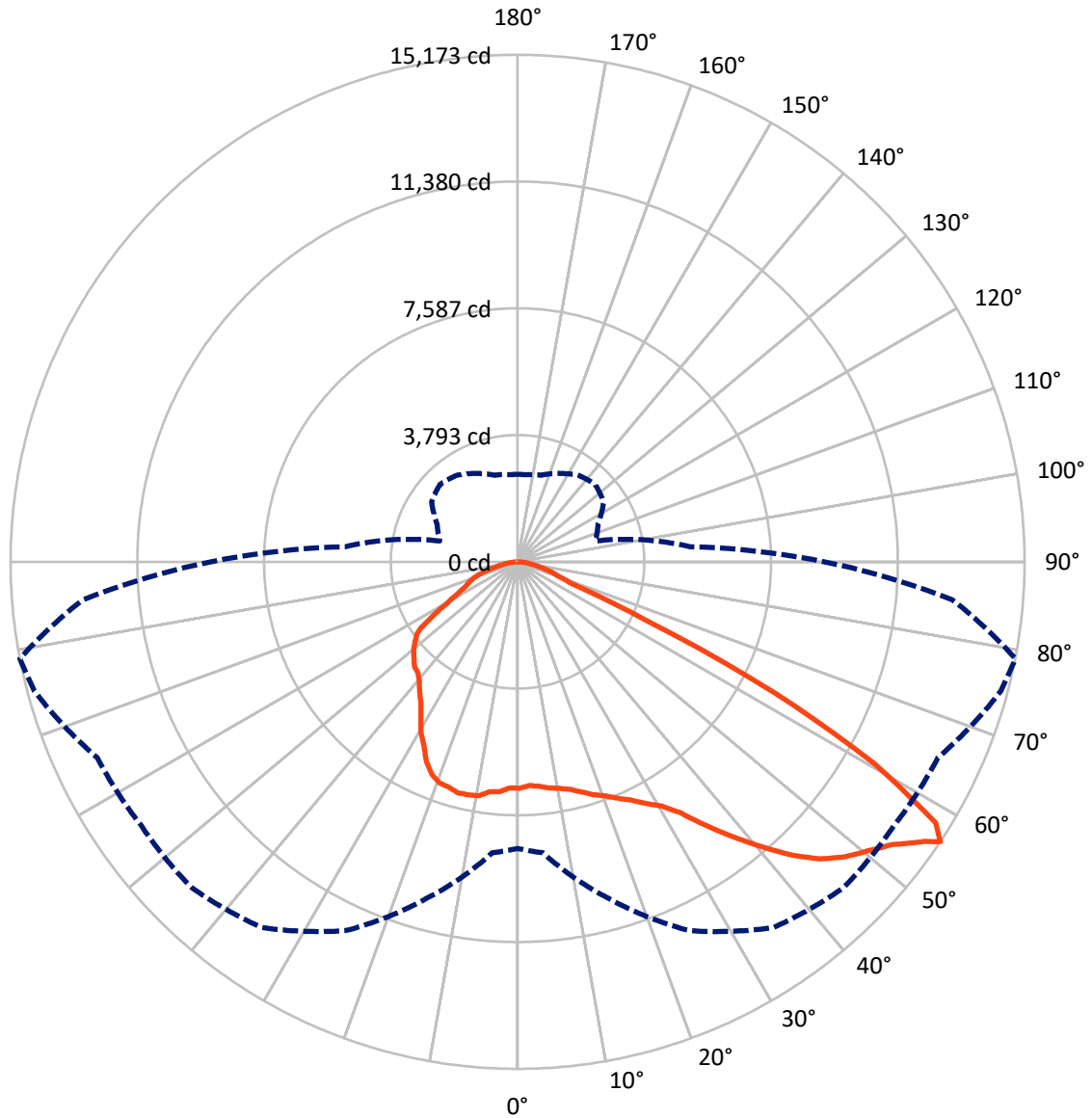
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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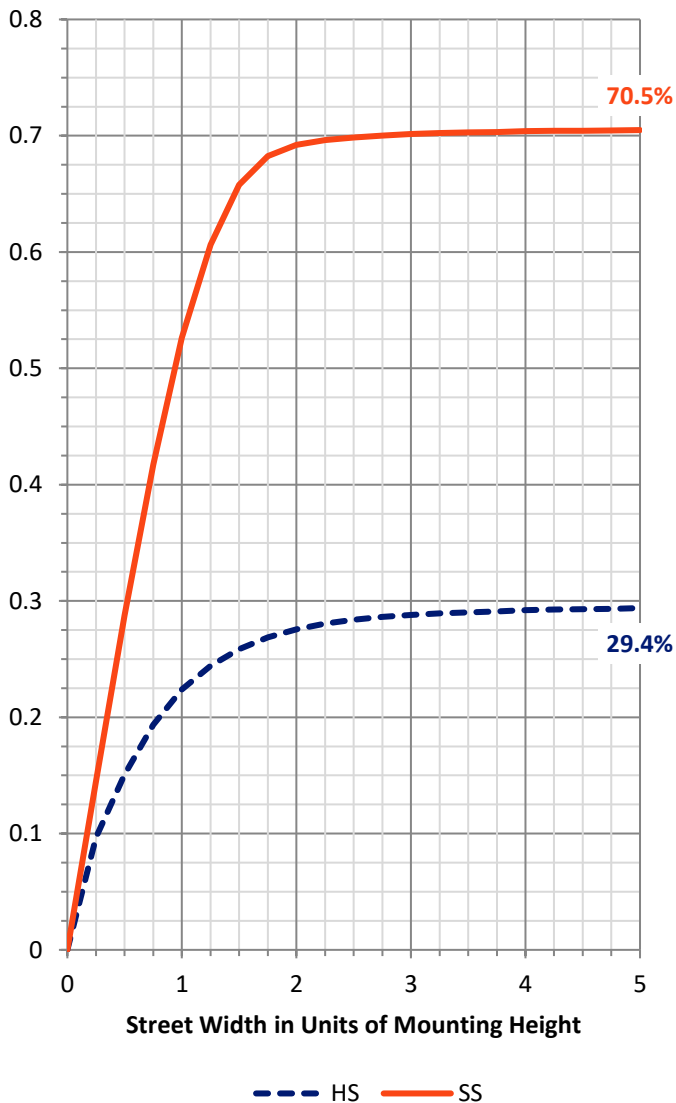
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7820.2 | 0.0 | 7820.2 |
| | % Fixture | 29.5 | 0.0 | 29.5 |
| Street Side | Lumens | 18660.1 | 0.0 | 18660.1 |
| | % Fixture | 70.5 | 0.0 | 70.5 |
| Total | Lumens | 26480.3 | 0.0 | 26480.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 616.0 | 2.3 |
| 10°-20° | 1685.8 | 6.4 |
| 20°-30° | 2884.1 | 10.9 |
| 30°-40° | 4420.3 | 16.7 |
| 40°-50° | 5974.0 | 22.6 |
| 50°-60° | 6861.3 | 25.9 |
| 60°-70° | 3127.6 | 11.8 |
| 70°-80° | 771.1 | 2.9 |
| 80°-90° | 140.2 | 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° | 26480.3 | 100.0 |
| 0°-180° | 26480.3 | 100.0 |



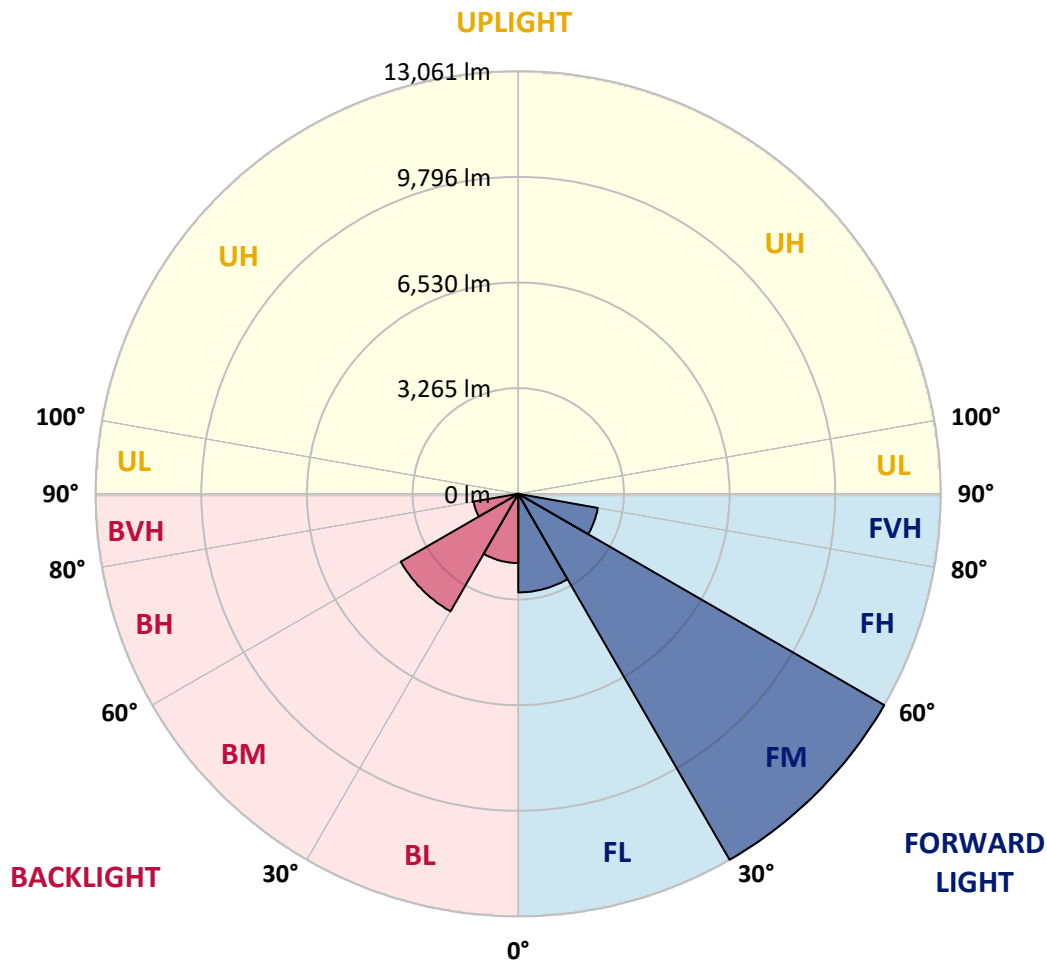
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3046.8 | 11.5 | | | |
| FM (30°-60°) | 13060.9 | 49.3 | | | |
| FH (60°-80°) | 2496.5 | 9.4 | | | G2/5000 |
| FVH (80°-90°) | 56.0 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2139.2 | 8.1 | B3/2500 | | |
| BM (30°-60°) | 4194.7 | 15.8 | B3/5000 | | |
| BH (60°-80°) | 1402.2 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 84.2 | 0.3 | | | G1/100 |
| 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° | 79° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6775.2 | 6775.2 | 6775.2 | 6775.2 | 6775.2 | 6775.2 | 6775.2 | 6775.2 | 6775.2 | 6775.2 | 6775.2 |
| 2.5° | 6445.4 | 6428.9 | 6468.5 | 6498.2 | 6534.4 | 6580.6 | 6603.7 | 6616.9 | 6732.4 | 6702.7 | 6791.7 |
| 5° | 6306.8 | 6264.0 | 6293.7 | 6316.8 | 6379.4 | 6435.5 | 6498.2 | 6597.2 | 6702.7 | 6748.8 | 6857.7 |
| 7.5° | 6184.8 | 6161.7 | 6155.2 | 6171.6 | 6257.3 | 6329.9 | 6438.8 | 6583.9 | 6755.5 | 6831.4 | 6894.0 |
| 10° | 5983.6 | 5950.6 | 6000.1 | 6109.0 | 6132.1 | 6283.7 | 6409.1 | 6616.9 | 6765.4 | 6897.3 | 7082.0 |
| 12.5° | 5894.5 | 5861.5 | 5871.5 | 5934.1 | 6095.7 | 6240.9 | 6389.4 | 6623.6 | 6936.9 | 6989.7 | 7237.0 |
| 15° | 6036.4 | 6003.4 | 6013.3 | 5996.8 | 6151.8 | 6227.7 | 6461.9 | 6755.5 | 7055.6 | 7144.7 | 7408.6 |
| 17.5° | 6359.6 | 6363.0 | 6320.1 | 6283.7 | 6247.5 | 6409.1 | 6570.8 | 6834.7 | 7101.8 | 7326.1 | 7524.0 |
| 20° | 6976.5 | 6867.6 | 6781.9 | 6577.4 | 6521.3 | 6590.5 | 6795.0 | 7049.0 | 7289.8 | 7474.5 | 7698.8 |
| 22.5° | 7451.5 | 7461.4 | 7339.3 | 7002.8 | 6880.8 | 6910.5 | 7085.3 | 7293.1 | 7557.0 | 7689.0 | 7946.3 |
| 25° | 8140.9 | 8071.6 | 7939.6 | 7672.5 | 7398.6 | 7421.7 | 7550.4 | 7738.5 | 7811.0 | 7903.4 | 8183.8 |
| 27.5° | 8770.9 | 8790.7 | 8530.1 | 8279.4 | 7939.6 | 7873.7 | 8104.6 | 8137.6 | 8015.5 | 8190.3 | 8286.0 |
| 30° | 9410.8 | 9394.3 | 9222.8 | 8929.3 | 8596.1 | 8609.2 | 8711.5 | 8549.9 | 8381.6 | 8477.3 | 8543.3 |
| 32.5° | 10073.8 | 9885.8 | 9879.2 | 9615.3 | 9361.3 | 9239.3 | 9114.0 | 9193.1 | 8932.5 | 8952.3 | 8889.6 |
| 35° | 10604.9 | 10631.3 | 10479.5 | 10291.5 | 10166.2 | 9951.8 | 9608.7 | 9750.5 | 9701.1 | 9678.0 | 9407.5 |
| 37.5° | 10990.8 | 10888.6 | 10964.4 | 10901.8 | 10783.0 | 10515.8 | 10159.6 | 10294.8 | 10317.9 | 10430.0 | 10116.7 |
| 40° | 11307.5 | 11264.6 | 11465.8 | 11498.8 | 11416.4 | 10839.1 | 10199.2 | 10601.6 | 10947.9 | 11192.0 | 10819.3 |
| 42.5° | 11459.2 | 11551.6 | 11762.7 | 12016.7 | 11832.0 | 11215.1 | 10403.6 | 10835.8 | 11607.7 | 11993.6 | 11485.6 |
| 45° | 11663.7 | 11544.9 | 11858.4 | 12323.5 | 12326.8 | 11531.8 | 10601.6 | 11152.4 | 12122.2 | 12683.0 | 11940.8 |
| 47.5° | 11455.9 | 11515.3 | 11838.6 | 12429.0 | 12580.7 | 11865.0 | 11136.0 | 11601.1 | 12689.6 | 13187.7 | 12363.0 |
| 50° | 10990.8 | 11109.6 | 11700.0 | 12313.5 | 12772.1 | 12217.9 | 11749.5 | 12085.9 | 13214.1 | 13593.4 | 12432.3 |
| 52.5° | 10505.9 | 10571.9 | 11495.5 | 12402.6 | 12857.8 | 12673.1 | 12570.8 | 12755.5 | 13854.0 | 14051.9 | 12518.1 |
| 55° | 9186.5 | 9499.9 | 10819.3 | 12363.0 | 13276.7 | 13494.5 | 13415.3 | 13685.7 | 14579.7 | 14777.6 | 12986.4 |
| 56° | 8576.3 | 8741.2 | 10413.6 | 12178.3 | 13359.2 | 13794.6 | 13755.0 | 13877.0 | 14965.6 | 15173.4 | 13059.0 |
| 57.5° | 7448.1 | 7461.4 | 8879.8 | 11360.2 | 13049.2 | 13883.7 | 13844.1 | 13939.7 | 14889.8 | 14747.9 | 12422.4 |
| 60° | 4660.9 | 4865.4 | 6043.0 | 8737.9 | 11096.4 | 12880.9 | 13105.2 | 12336.6 | 12554.3 | 12254.2 | 9664.8 |
| 62.5° | 2414.5 | 2384.9 | 3166.6 | 5109.5 | 7365.7 | 9222.8 | 9430.6 | 9394.3 | 9057.9 | 8619.2 | 6313.5 |
| 65° | 1203.9 | 1210.6 | 1655.9 | 2530.0 | 3773.6 | 4829.1 | 5409.7 | 5472.3 | 4578.4 | 4212.3 | 2995.1 |
| 67.5° | 874.1 | 907.1 | 1190.8 | 1547.1 | 1778.0 | 1989.1 | 2437.6 | 2391.4 | 1810.9 | 1721.8 | 1596.5 |
| 70° | 679.5 | 709.2 | 966.5 | 1180.9 | 1072.0 | 1072.0 | 1167.7 | 1207.3 | 1289.8 | 1326.0 | 1368.9 |
| 72.5° | 494.8 | 517.9 | 738.9 | 814.7 | 702.6 | 755.4 | 874.1 | 966.5 | 1052.3 | 1065.4 | 1114.9 |
| 75° | 339.7 | 359.6 | 484.9 | 448.6 | 422.2 | 521.2 | 639.9 | 725.7 | 788.3 | 821.4 | 851.0 |
| 77.5° | 221.0 | 227.6 | 277.1 | 234.2 | 270.4 | 336.5 | 415.6 | 488.2 | 550.8 | 577.2 | 583.9 |
| 80° | 99.0 | 108.8 | 118.8 | 148.5 | 188.0 | 240.8 | 296.8 | 356.3 | 395.8 | 405.8 | 425.5 |
| 82.5° | 56.1 | 56.1 | 72.6 | 105.5 | 138.5 | 174.8 | 214.4 | 257.3 | 303.5 | 313.4 | 310.1 |
| 85° | 29.7 | 29.7 | 42.9 | 62.6 | 85.7 | 102.3 | 99.0 | 102.3 | 108.8 | 125.4 | 122.1 |
| 87.5° | 9.9 | 9.9 | 13.2 | 13.2 | 16.5 | 19.8 | 16.5 | 23.1 | 29.7 | 29.7 | 29.7 |
| 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° | 6775.2 | 6775.2 | 6775.2 | 6775.2 | 6775.2 | 6775.2 | 6775.2 | 6775.2 | 6775.2 | 6775.2 | 6775.2 |
| 2.5° | 6765.4 | 6795.0 | 6755.5 | 6841.2 | 6841.2 | 6824.7 | 6742.3 | 6768.6 | 6788.5 | 6788.5 | 6805.0 |
| 5° | 6894.0 | 6884.1 | 6910.5 | 6808.3 | 6745.5 | 6722.4 | 6587.2 | 6521.3 | 6465.2 | 6461.9 | 6412.4 |
| 7.5° | 6966.6 | 6940.2 | 6930.3 | 6854.4 | 6577.4 | 6409.1 | 6118.8 | 5950.6 | 5914.3 | 5785.7 | 5835.2 |
| 10° | 7082.0 | 7131.5 | 7082.0 | 6669.7 | 6283.7 | 5897.9 | 5614.2 | 5353.6 | 5251.3 | 5168.8 | 5119.4 |
| 12.5° | 7319.5 | 7296.5 | 7009.4 | 6452.0 | 5911.0 | 5452.5 | 5030.3 | 4756.6 | 4654.3 | 4581.7 | 4575.1 |
| 15° | 7520.7 | 7405.3 | 6966.6 | 6109.0 | 5330.5 | 4842.3 | 4495.9 | 4301.3 | 4255.1 | 4261.7 | 4291.5 |
| 17.5° | 7590.0 | 7510.8 | 6742.3 | 5752.7 | 4898.4 | 4324.4 | 4162.8 | 4133.1 | 4176.0 | 4225.5 | 4238.7 |
| 20° | 7698.8 | 7573.5 | 6649.9 | 5267.8 | 4364.0 | 4001.1 | 3991.3 | 4096.8 | 4176.0 | 4248.6 | 4258.4 |
| 22.5° | 7926.5 | 7609.8 | 6349.7 | 4809.3 | 3997.8 | 3905.5 | 4001.1 | 4090.2 | 4212.3 | 4271.7 | 4218.9 |
| 25° | 7992.4 | 7530.7 | 5927.5 | 4258.4 | 3766.9 | 3846.1 | 3948.4 | 4070.4 | 4156.2 | 4189.2 | 4212.3 |
| 27.5° | 8048.5 | 7408.6 | 5356.9 | 3892.3 | 3694.4 | 3842.8 | 3948.4 | 4050.6 | 4096.8 | 4126.5 | 4152.9 |
| 30° | 8206.9 | 7372.3 | 4862.1 | 3648.2 | 3648.2 | 3776.9 | 3912.1 | 3938.5 | 4001.1 | 4037.5 | 4083.7 |
| 32.5° | 8286.0 | 7121.6 | 4354.1 | 3493.2 | 3602.0 | 3809.8 | 3819.7 | 3869.2 | 3872.5 | 3902.2 | 3852.8 |
| 35° | 8493.8 | 6943.5 | 3882.4 | 3381.0 | 3621.8 | 3776.9 | 3826.4 | 3796.6 | 3635.0 | 3555.8 | 3572.4 |
| 37.5° | 8645.6 | 6854.4 | 3542.7 | 3367.8 | 3625.1 | 3813.1 | 3839.5 | 3615.2 | 3447.0 | 3315.1 | 3348.0 |
| 40° | 9054.5 | 6633.4 | 3285.4 | 3344.7 | 3654.8 | 3852.8 | 3780.2 | 3536.0 | 3232.6 | 3097.4 | 3074.3 |
| 42.5° | 9367.9 | 6475.1 | 3123.8 | 3318.4 | 3677.9 | 3908.8 | 3750.5 | 3377.7 | 3067.6 | 2942.4 | 2975.3 |
| 45° | 9730.7 | 6438.8 | 3038.0 | 3324.9 | 3717.4 | 3938.5 | 3714.2 | 3255.7 | 2925.8 | 2876.4 | 2866.5 |
| 47.5° | 9859.4 | 6178.2 | 2945.6 | 3268.9 | 3707.6 | 3928.6 | 3592.2 | 3163.3 | 2873.1 | 2879.6 | 2906.0 |
| 50° | 9645.0 | 5911.0 | 2876.4 | 3153.5 | 3641.7 | 3839.5 | 3400.8 | 3041.3 | 2843.4 | 2925.8 | 2972.0 |
| 52.5° | 9371.3 | 5637.3 | 2734.5 | 2998.4 | 3506.4 | 3701.0 | 3311.8 | 3034.7 | 2813.7 | 2787.3 | 2797.2 |
| 55° | 9453.7 | 5413.0 | 2536.6 | 2787.3 | 3288.7 | 3443.7 | 3212.8 | 2972.0 | 2741.1 | 2642.2 | 2675.1 |
| 56° | 9186.5 | 5182.1 | 2408.0 | 2655.3 | 3140.2 | 3278.8 | 3163.3 | 2916.0 | 2681.7 | 2615.8 | 2615.8 |
| 57.5° | 8431.1 | 4406.9 | 2239.7 | 2444.2 | 2826.9 | 2991.8 | 3067.6 | 2882.9 | 2615.8 | 2500.3 | 2503.6 |
| 60° | 6217.8 | 3133.6 | 2008.9 | 2154.0 | 2342.0 | 2473.9 | 2826.9 | 2790.6 | 2450.9 | 2371.7 | 2342.0 |
| 62.5° | 3832.9 | 2289.2 | 1843.9 | 1899.9 | 1995.6 | 2104.5 | 2467.3 | 2526.7 | 2276.0 | 2190.3 | 2170.5 |
| 65° | 2147.4 | 1751.6 | 1718.5 | 1741.6 | 1787.8 | 1843.9 | 2048.4 | 2180.3 | 2008.9 | 1876.9 | 1870.3 |
| 67.5° | 1570.1 | 1566.8 | 1593.2 | 1613.0 | 1632.8 | 1632.8 | 1682.3 | 1735.0 | 1712.0 | 1606.4 | 1596.5 |
| 70° | 1395.3 | 1405.2 | 1425.0 | 1428.3 | 1434.8 | 1411.7 | 1372.2 | 1355.7 | 1382.1 | 1316.1 | 1302.9 |
| 72.5° | 1151.2 | 1184.2 | 1207.3 | 1210.6 | 1174.3 | 1144.6 | 1091.8 | 1035.8 | 1015.9 | 1002.8 | 999.5 |
| 75° | 884.0 | 907.1 | 917.0 | 913.7 | 900.5 | 857.6 | 795.0 | 738.9 | 702.6 | 663.0 | 682.8 |
| 77.5° | 597.0 | 630.0 | 646.5 | 646.5 | 626.7 | 560.8 | 531.0 | 488.2 | 451.9 | 409.0 | 415.6 |
| 80° | 418.9 | 442.0 | 468.4 | 465.1 | 432.1 | 399.1 | 356.3 | 316.6 | 287.0 | 254.0 | 250.7 |
| 82.5° | 313.4 | 326.6 | 339.7 | 333.2 | 310.1 | 277.1 | 247.4 | 211.1 | 178.1 | 155.0 | 155.0 |
| 85° | 112.1 | 122.1 | 148.5 | 155.0 | 168.2 | 168.2 | 141.8 | 118.8 | 95.7 | 79.2 | 79.2 |
| 87.5° | 33.0 | 33.0 | 36.3 | 36.3 | 33.0 | 36.3 | 29.7 | 33.0 | 36.3 | 23.1 | 23.1 |
| 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)