

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: P652985

Luminaire Tested: **GLAN-SA7C-840-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7C-840-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41585.8 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

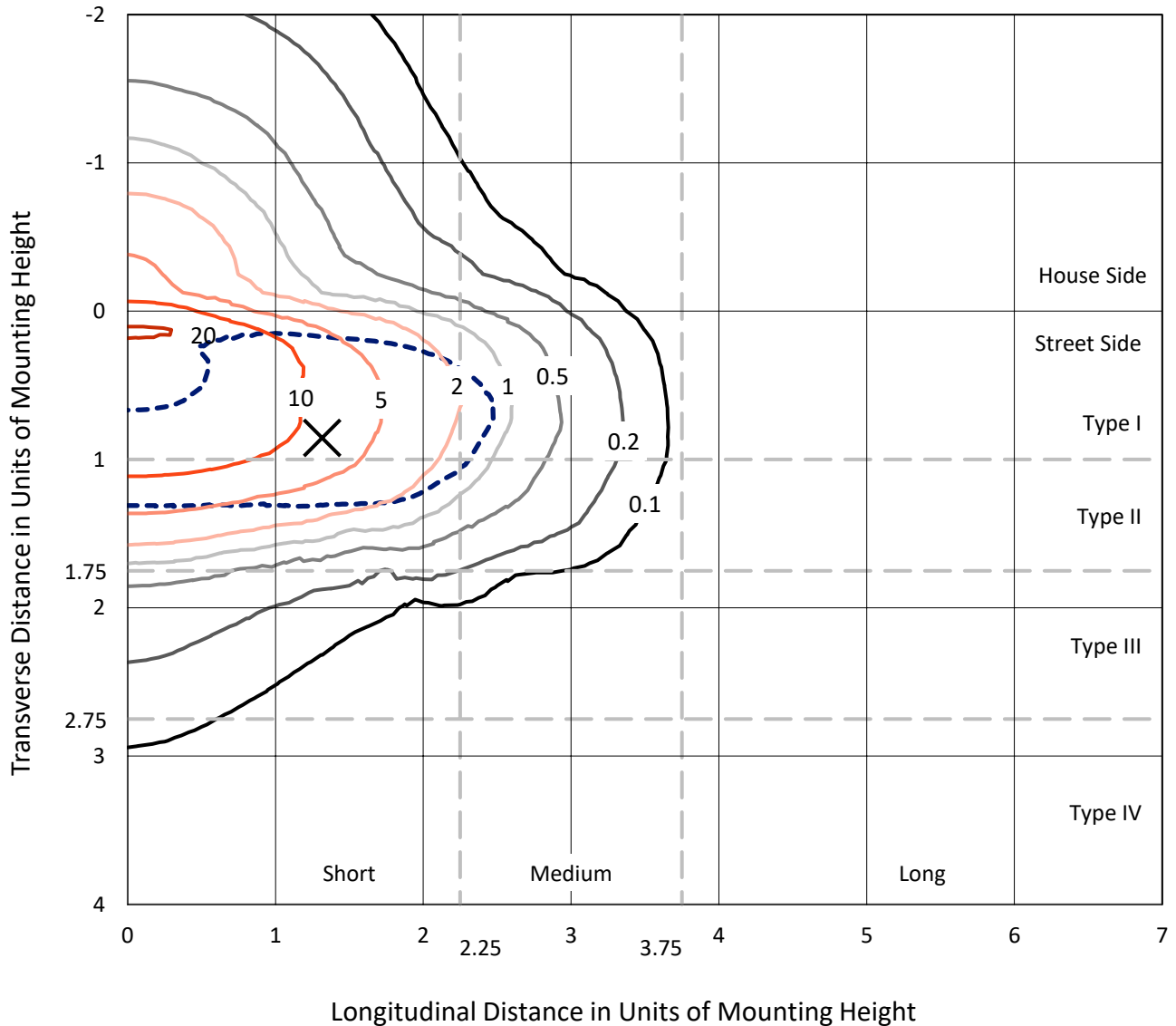
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

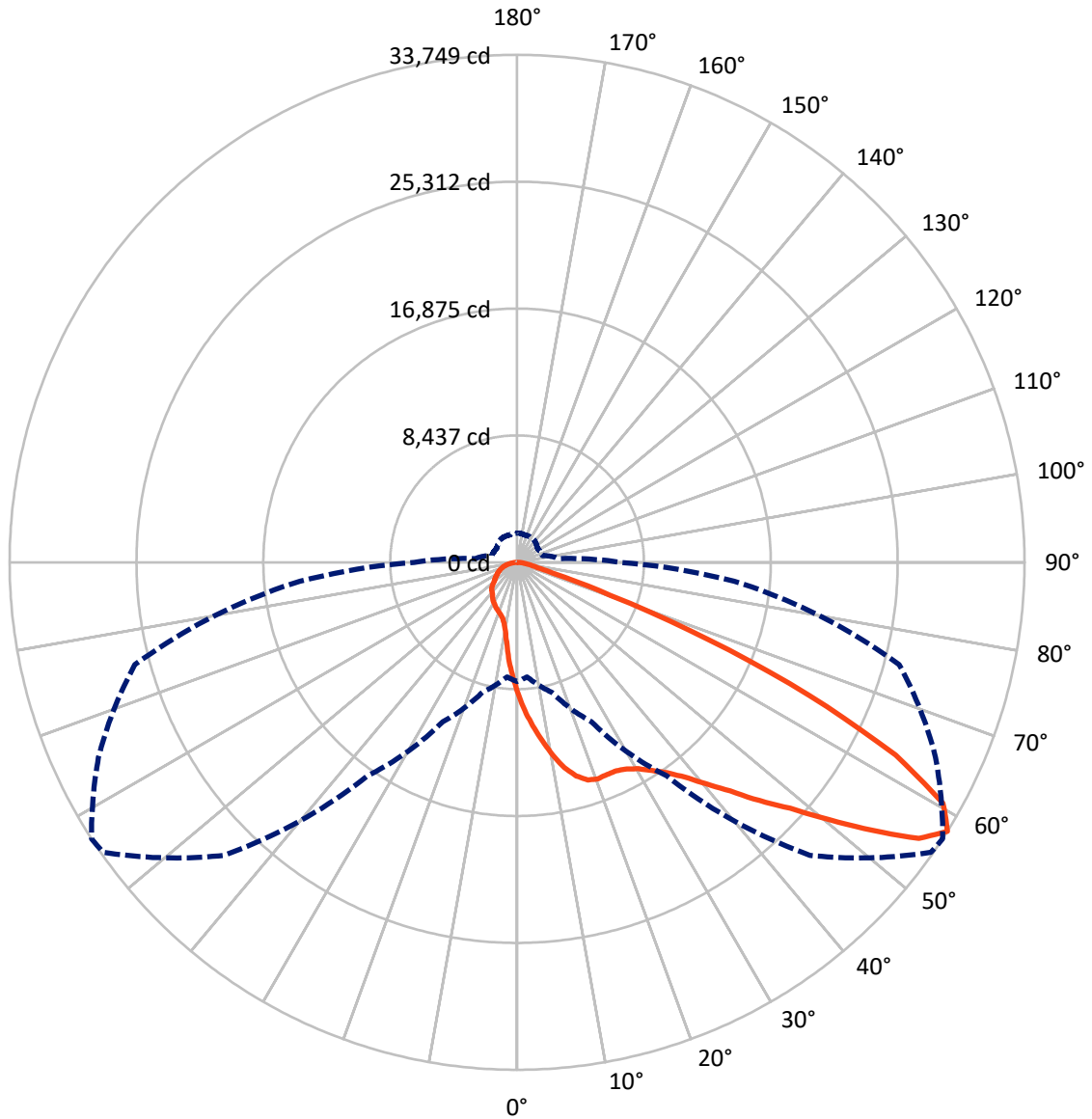
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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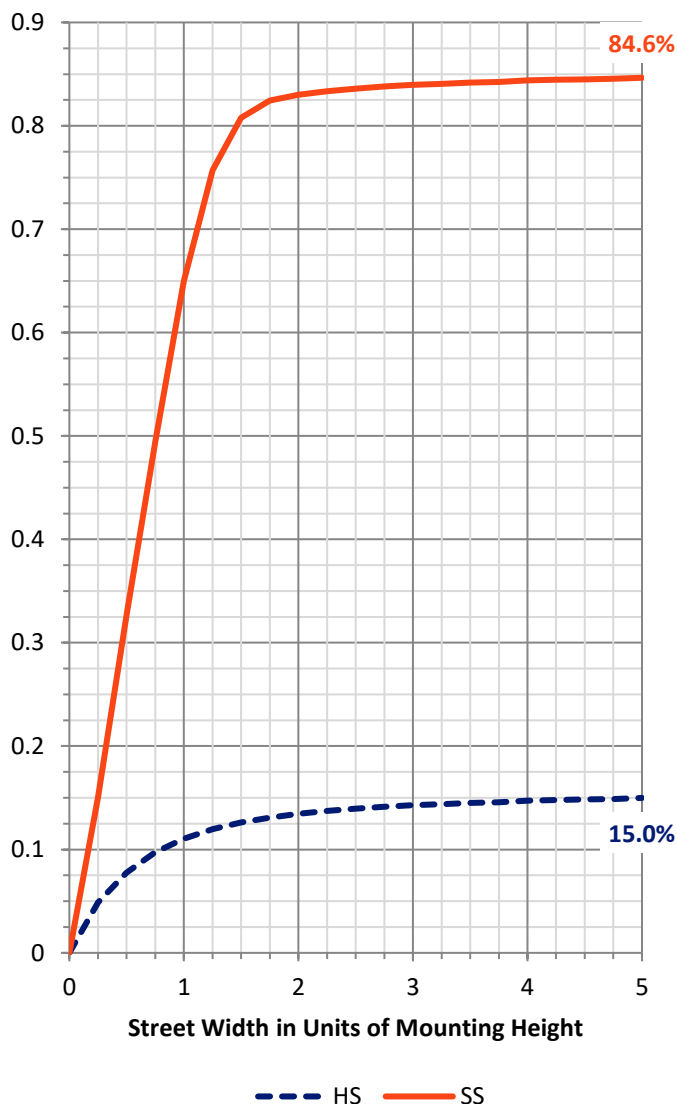
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6324.0 | 0.0 | 6324.0 |
| | % Fixture | 15.2 | 0.0 | 15.2 |
| Street Side | Lumens | 35261.7 | 0.0 | 35261.7 |
| | % Fixture | 84.8 | 0.0 | 84.8 |
| Total | Lumens | 41585.8 | 0.0 | 41585.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 839.7 | 2.0 |
| 10°-20° | 2474.6 | 6.0 |
| 20°-30° | 4109.1 | 9.9 |
| 30°-40° | 6189.5 | 14.9 |
| 40°-50° | 9292.9 | 22.3 |
| 50°-60° | 10416.2 | 25.0 |
| 60°-70° | 6096.1 | 14.7 |
| 70°-80° | 1803.2 | 4.3 |
| 80°-90° | 364.5 | 0.9 |
| 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° | 41585.8 | 100.0 |
| 0°-180° | 41585.8 | 100.0 |

Coefficient of Utilization

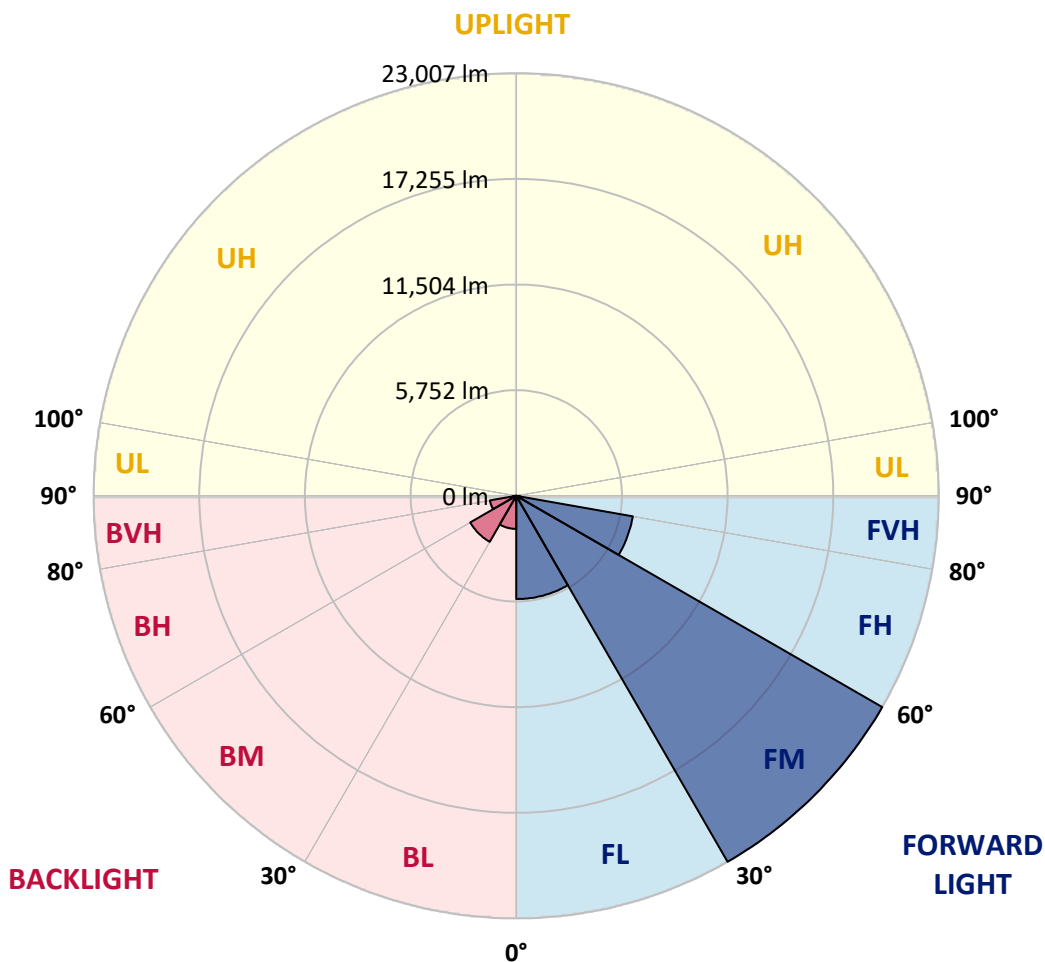


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5621.4 | 13.5 | | | |
| FM (30°-60°) | 23007.1 | 55.3 | | | |
| FH (60°-80°) | 6444.1 | 15.5 | | | G3/7500 |
| FVH (80°-90°) | 189.1 | 0.5 | | | G2/225 |
| BL (0°-30°) | 1801.9 | 4.3 | B3/2500 | | |
| BM (30°-60°) | 2891.6 | 7.0 | B3/5000 | | |
| BH (60°-80°) | 1455.1 | 3.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 175.4 | 0.4 | | | 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° | 57° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8736.7 | 8736.7 | 8736.7 | 8736.7 | 8736.7 | 8736.7 | 8736.7 | 8736.7 | 8736.7 | 8736.7 | 8736.7 |
| 2.5° | 10856.0 | 10737.6 | 10644.3 | 10562.4 | 10455.3 | 10166.3 | 9877.1 | 9872.6 | 9642.7 | 9287.6 | 8923.3 |
| 5° | 12624.8 | 12465.4 | 12485.9 | 12230.9 | 11975.9 | 11557.1 | 10944.8 | 10912.9 | 10423.5 | 9758.8 | 9082.7 |
| 7.5° | 13776.6 | 13778.9 | 13715.1 | 13569.5 | 13293.9 | 12818.2 | 12123.9 | 11966.8 | 11286.2 | 10277.8 | 9264.8 |
| 10° | 13717.4 | 13778.9 | 13885.8 | 14011.1 | 14095.2 | 13860.8 | 13228.0 | 13036.8 | 12151.3 | 10906.1 | 9467.4 |
| 12.5° | 12929.8 | 13025.4 | 13177.9 | 13492.0 | 13999.6 | 14386.7 | 14170.3 | 14015.6 | 13152.8 | 11532.0 | 9690.5 |
| 15° | 12438.1 | 12495.0 | 12579.2 | 12790.9 | 13337.3 | 14263.7 | 14823.7 | 14741.7 | 14097.5 | 12240.0 | 9940.9 |
| 17.5° | 12287.9 | 12344.7 | 12372.0 | 12501.8 | 12891.1 | 13840.3 | 15080.9 | 15226.6 | 14935.2 | 12891.1 | 10193.6 |
| 20° | 12438.1 | 12465.4 | 12465.4 | 12542.8 | 12847.8 | 13592.2 | 15069.5 | 15363.2 | 15622.7 | 13671.9 | 10430.3 |
| 22.5° | 12831.9 | 12843.2 | 12827.4 | 12854.6 | 13082.3 | 13660.4 | 14962.6 | 15326.8 | 16178.1 | 14334.3 | 10614.7 |
| 25° | 13471.6 | 13489.7 | 13385.0 | 13321.3 | 13487.5 | 13960.9 | 15021.8 | 15356.4 | 16612.9 | 14967.1 | 10737.6 |
| 27.5° | 14197.7 | 14220.5 | 14093.0 | 13945.0 | 14022.4 | 14332.0 | 15253.9 | 15554.4 | 16938.4 | 15590.8 | 10815.0 |
| 30° | 15087.8 | 15096.9 | 14882.9 | 14705.3 | 14655.3 | 14885.2 | 15650.0 | 15930.0 | 17343.6 | 16326.1 | 10931.1 |
| 32.5° | 15998.3 | 16066.6 | 15791.1 | 15540.8 | 15456.5 | 15527.1 | 16235.1 | 16506.0 | 17826.3 | 17116.0 | 11117.8 |
| 35° | 17236.6 | 17248.1 | 16918.0 | 16612.9 | 16335.2 | 16426.2 | 16984.0 | 17179.7 | 18493.2 | 18028.9 | 11381.8 |
| 37.5° | 18782.3 | 18887.0 | 18431.8 | 17862.7 | 17521.2 | 17389.2 | 17890.0 | 18104.0 | 19428.8 | 19148.8 | 11780.2 |
| 40° | 20498.7 | 20537.4 | 20148.1 | 19793.0 | 19169.2 | 18786.8 | 19132.8 | 19365.0 | 20582.9 | 20485.0 | 12242.3 |
| 42.5° | 21577.7 | 21661.9 | 21691.5 | 21655.1 | 21186.1 | 20544.2 | 20676.2 | 20785.5 | 21948.8 | 21739.3 | 12715.8 |
| 45° | 21941.9 | 22067.1 | 22490.5 | 23387.4 | 23437.5 | 22804.6 | 22497.3 | 22602.0 | 23437.5 | 23005.0 | 13168.8 |
| 47.5° | 21338.7 | 21552.6 | 22333.4 | 24172.7 | 25549.9 | 25597.8 | 24671.2 | 24441.3 | 24794.2 | 24054.4 | 13496.5 |
| 50° | 19779.3 | 19824.9 | 21020.0 | 23683.3 | 26540.2 | 28267.9 | 27309.5 | 26881.6 | 26082.6 | 24830.6 | 13721.9 |
| 52.5° | 17366.4 | 17418.8 | 18420.3 | 21409.3 | 25930.0 | 30134.5 | 30396.3 | 29631.5 | 27391.5 | 25433.9 | 13869.9 |
| 55° | 12891.1 | 13193.9 | 14295.6 | 17184.3 | 23039.1 | 29959.3 | 32850.2 | 32415.4 | 28973.6 | 25911.9 | 14102.1 |
| 57.5° | 7926.3 | 7648.6 | 8955.2 | 11691.4 | 17327.7 | 27550.8 | 33608.3 | 33749.4 | 30715.0 | 26312.5 | 14491.4 |
| 60° | 3646.7 | 3701.4 | 4240.9 | 6030.1 | 10562.4 | 21552.6 | 31655.2 | 32547.5 | 31677.9 | 26298.8 | 14589.2 |
| 62.5° | 2513.1 | 2463.0 | 2326.5 | 2647.4 | 4816.8 | 13630.8 | 26738.2 | 28249.7 | 29747.5 | 25481.6 | 14199.9 |
| 65° | 2246.7 | 2196.7 | 1932.6 | 1843.9 | 2212.6 | 5941.3 | 19437.9 | 21345.5 | 25046.8 | 23419.2 | 13230.3 |
| 67.5° | 2098.8 | 2030.5 | 1757.4 | 1584.4 | 1579.8 | 2365.1 | 11461.5 | 13758.3 | 18577.4 | 19799.8 | 11463.8 |
| 70° | 1944.1 | 1889.4 | 1618.5 | 1427.3 | 1345.3 | 1486.5 | 5037.6 | 6594.6 | 12062.5 | 14268.2 | 8930.2 |
| 72.5° | 1789.2 | 1725.5 | 1481.9 | 1277.1 | 1170.1 | 1113.1 | 1930.3 | 2510.8 | 6815.5 | 8554.6 | 5474.7 |
| 75° | 1563.8 | 1532.0 | 1324.8 | 1156.4 | 1040.3 | 899.2 | 1224.7 | 1397.7 | 3259.7 | 3929.0 | 2747.5 |
| 77.5° | 1368.1 | 1333.9 | 1176.9 | 1010.7 | 926.4 | 730.7 | 869.6 | 949.2 | 1375.0 | 1593.4 | 1240.6 |
| 80° | 1001.6 | 1035.8 | 992.5 | 892.3 | 826.3 | 573.6 | 585.0 | 651.0 | 817.2 | 903.7 | 758.0 |
| 82.5° | 635.1 | 698.9 | 764.9 | 687.4 | 626.0 | 453.0 | 405.2 | 430.3 | 557.8 | 591.9 | 336.9 |
| 85° | 266.3 | 270.9 | 443.9 | 418.8 | 357.4 | 268.6 | 243.6 | 257.3 | 298.2 | 311.8 | 157.1 |
| 87.5° | 102.4 | 100.2 | 157.1 | 145.7 | 111.5 | 77.4 | 77.4 | 86.5 | 118.4 | 109.2 | 50.0 |
| 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° | 8736.7 | 8736.7 | 8736.7 | 8736.7 | 8736.7 | 8736.7 | 8736.7 | 8736.7 | 8736.7 | 8736.7 | 8736.7 |
| 2.5° | 8766.2 | 8604.7 | 8283.7 | 7885.3 | 7594.0 | 7266.2 | 6977.1 | 6769.9 | 6692.5 | 6656.1 | 6587.8 |
| 5° | 8759.4 | 8440.8 | 7776.1 | 7079.5 | 6519.5 | 5945.9 | 5461.0 | 5146.8 | 5119.6 | 4910.1 | 4889.7 |
| 7.5° | 8761.7 | 8274.6 | 7216.1 | 6191.7 | 5338.1 | 4750.8 | 4350.2 | 4245.5 | 4120.2 | 4088.4 | 4104.2 |
| 10° | 8768.6 | 8062.9 | 6615.1 | 5313.0 | 4486.7 | 4102.0 | 3951.8 | 3910.8 | 3915.4 | 3929.0 | 3931.3 |
| 12.5° | 8777.7 | 7858.1 | 5991.4 | 4646.1 | 4008.7 | 3849.3 | 3833.4 | 3869.9 | 3908.5 | 3938.2 | 3945.0 |
| 15° | 8789.0 | 7623.6 | 5383.6 | 4108.9 | 3769.7 | 3756.0 | 3808.4 | 3869.9 | 3924.4 | 3967.7 | 3974.6 |
| 17.5° | 8775.4 | 7350.4 | 4873.7 | 3778.8 | 3637.7 | 3703.7 | 3790.1 | 3867.5 | 3917.6 | 3958.6 | 3963.1 |
| 20° | 8743.5 | 7045.4 | 4382.0 | 3546.6 | 3555.7 | 3662.6 | 3756.0 | 3828.8 | 3883.5 | 3904.0 | 3919.9 |
| 22.5° | 8620.6 | 6681.2 | 3954.0 | 3366.8 | 3457.8 | 3605.8 | 3717.3 | 3760.5 | 3699.1 | 3655.8 | 3667.3 |
| 25° | 8411.2 | 6207.7 | 3555.7 | 3221.0 | 3369.0 | 3526.1 | 3639.9 | 3535.2 | 3485.1 | 3466.9 | 3476.0 |
| 27.5° | 8149.4 | 5688.6 | 3255.2 | 3068.6 | 3255.2 | 3437.3 | 3405.5 | 3387.2 | 3364.5 | 3334.9 | 3341.7 |
| 30° | 7867.1 | 5181.0 | 3000.3 | 2950.1 | 3132.3 | 3237.0 | 3250.6 | 3280.2 | 3255.2 | 3209.7 | 3227.9 |
| 32.5° | 7605.3 | 4703.0 | 2806.8 | 2850.0 | 3045.8 | 3029.9 | 3132.3 | 3166.4 | 3050.3 | 2897.8 | 2904.6 |
| 35° | 7382.2 | 4259.1 | 2661.1 | 2752.1 | 2897.8 | 2904.6 | 3007.1 | 2888.7 | 2763.5 | 2690.7 | 2695.2 |
| 37.5° | 7213.8 | 3913.1 | 2565.5 | 2667.9 | 2708.9 | 2795.4 | 2740.7 | 2679.3 | 2663.4 | 2613.2 | 2615.5 |
| 40° | 7113.7 | 3610.3 | 2504.0 | 2601.9 | 2595.1 | 2654.3 | 2478.9 | 2540.4 | 2563.2 | 2547.2 | 2549.5 |
| 42.5° | 7013.5 | 3396.4 | 2440.2 | 2510.8 | 2508.5 | 2392.5 | 2353.8 | 2406.1 | 2465.3 | 2472.1 | 2467.6 |
| 45° | 6933.8 | 3230.2 | 2374.2 | 2372.0 | 2417.5 | 2235.4 | 2224.0 | 2255.9 | 2340.1 | 2381.0 | 2378.8 |
| 47.5° | 6845.1 | 3091.3 | 2274.1 | 2210.3 | 2224.0 | 2137.5 | 2119.3 | 2132.9 | 2235.4 | 2301.4 | 2319.6 |
| 50° | 6733.5 | 2952.4 | 2148.9 | 2062.4 | 2005.4 | 2046.5 | 2051.0 | 2053.3 | 2155.7 | 2230.8 | 2246.7 |
| 52.5° | 6644.7 | 2847.7 | 2005.4 | 1941.7 | 1873.4 | 1964.5 | 1998.6 | 2003.2 | 2064.7 | 2126.1 | 2137.5 |
| 55° | 6697.1 | 2788.6 | 1864.3 | 1818.8 | 1757.4 | 1880.3 | 1946.3 | 1955.4 | 1969.0 | 2014.6 | 2021.4 |
| 57.5° | 6854.2 | 2802.2 | 1750.5 | 1691.3 | 1645.8 | 1780.1 | 1891.7 | 1898.5 | 1889.4 | 1944.1 | 1953.1 |
| 60° | 6901.9 | 2795.4 | 1666.3 | 1550.2 | 1522.9 | 1673.2 | 1812.0 | 1825.6 | 1823.4 | 1903.0 | 1919.0 |
| 62.5° | 6701.6 | 2708.9 | 1582.1 | 1431.8 | 1413.6 | 1563.8 | 1700.4 | 1755.1 | 1766.4 | 1880.3 | 1900.7 |
| 65° | 6230.4 | 2531.3 | 1470.6 | 1306.7 | 1306.7 | 1447.8 | 1593.4 | 1668.5 | 1700.4 | 1853.0 | 1875.8 |
| 67.5° | 5609.0 | 2321.9 | 1356.7 | 1199.7 | 1195.1 | 1336.3 | 1479.7 | 1557.0 | 1607.2 | 1814.3 | 1827.9 |
| 70° | 4655.2 | 2039.6 | 1215.6 | 1083.5 | 1083.5 | 1211.0 | 1340.8 | 1434.1 | 1507.0 | 1741.5 | 1741.5 |
| 72.5° | 3189.2 | 1695.9 | 1044.9 | 951.5 | 953.8 | 1072.2 | 1204.2 | 1308.9 | 1395.4 | 1595.7 | 1600.3 |
| 75° | 2016.9 | 1324.8 | 858.2 | 810.4 | 819.5 | 931.1 | 1067.6 | 1176.9 | 1349.9 | 1577.5 | 1584.4 |
| 77.5° | 1072.2 | 931.1 | 682.9 | 671.5 | 682.9 | 785.3 | 937.9 | 1088.1 | 1354.4 | 1368.1 | 1345.3 |
| 80° | 694.3 | 660.2 | 539.5 | 516.7 | 521.3 | 632.9 | 835.4 | 1033.5 | 1088.1 | 1101.8 | 1051.7 |
| 82.5° | 377.9 | 418.8 | 382.4 | 359.7 | 359.7 | 494.0 | 712.5 | 821.7 | 780.8 | 648.7 | 619.1 |
| 85° | 161.6 | 195.8 | 198.1 | 173.0 | 166.2 | 305.0 | 478.0 | 448.4 | 416.5 | 398.4 | 393.8 |
| 87.5° | 45.5 | 63.7 | 63.7 | 47.8 | 36.4 | 84.2 | 95.6 | 27.3 | 0.0 | 2.3 | 4.5 |
| 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)