

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: P654538

Luminaire Tested: **GLAN-SA8B-840-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P654538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8B-840-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37824.8 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

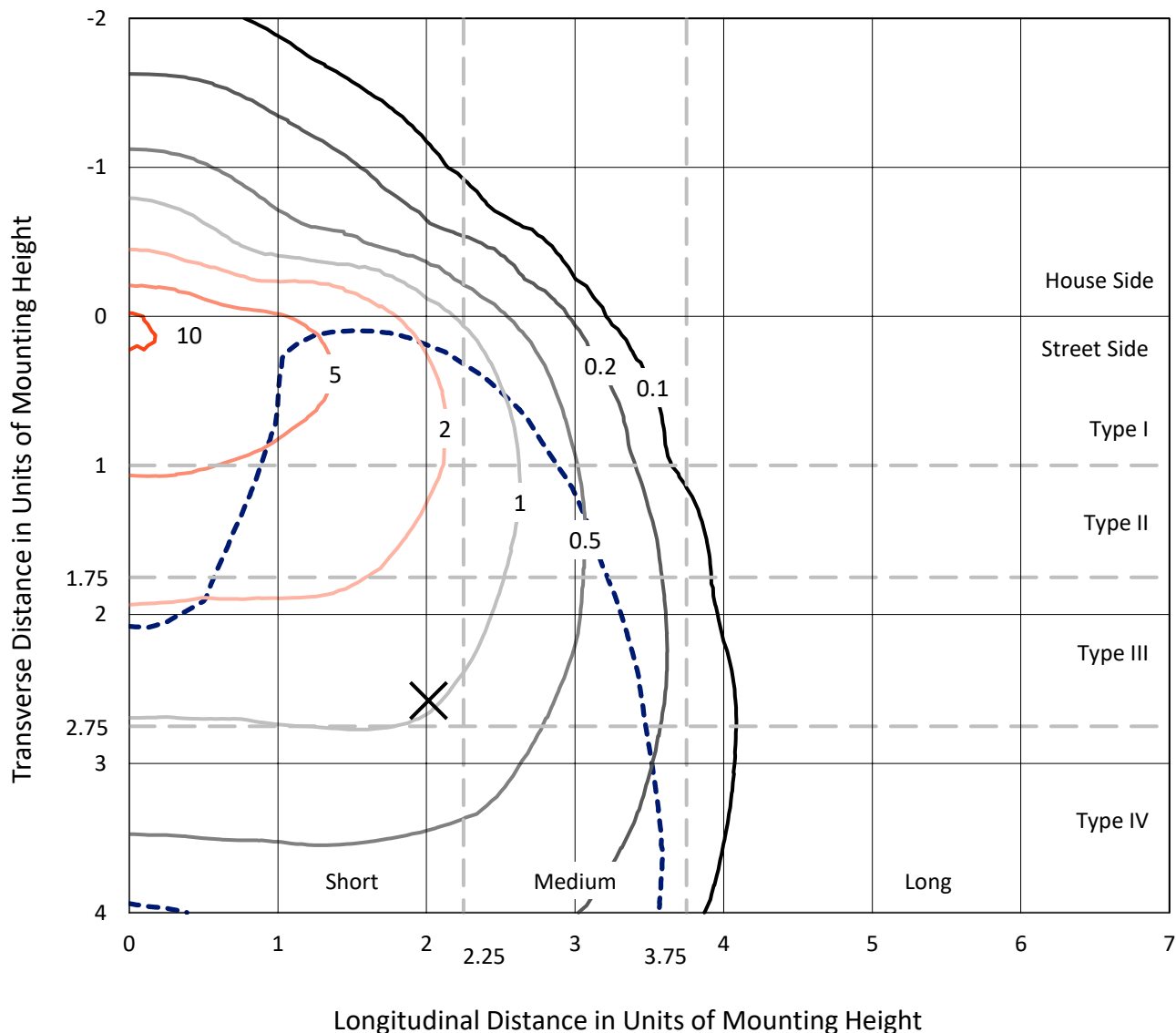
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

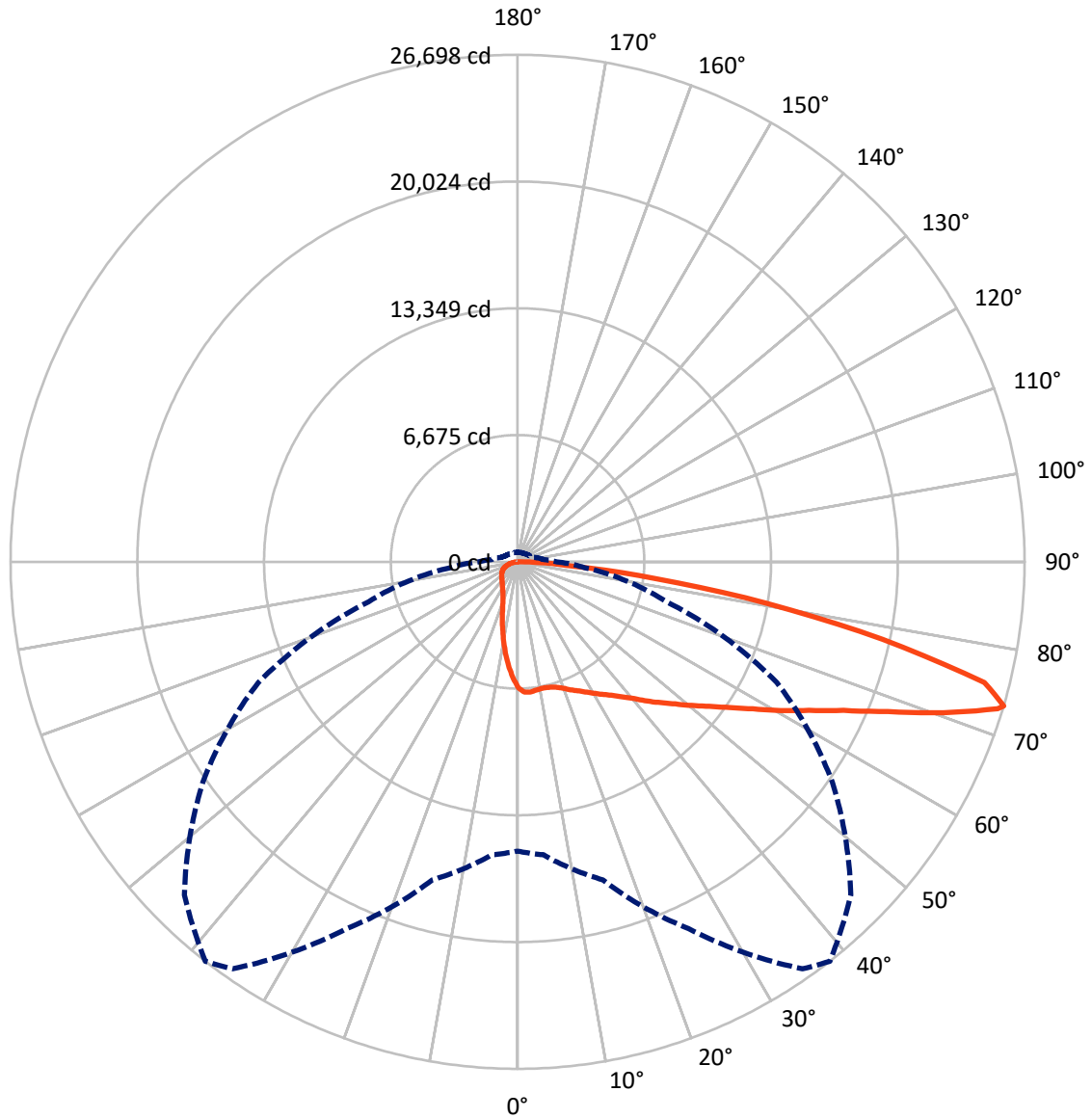
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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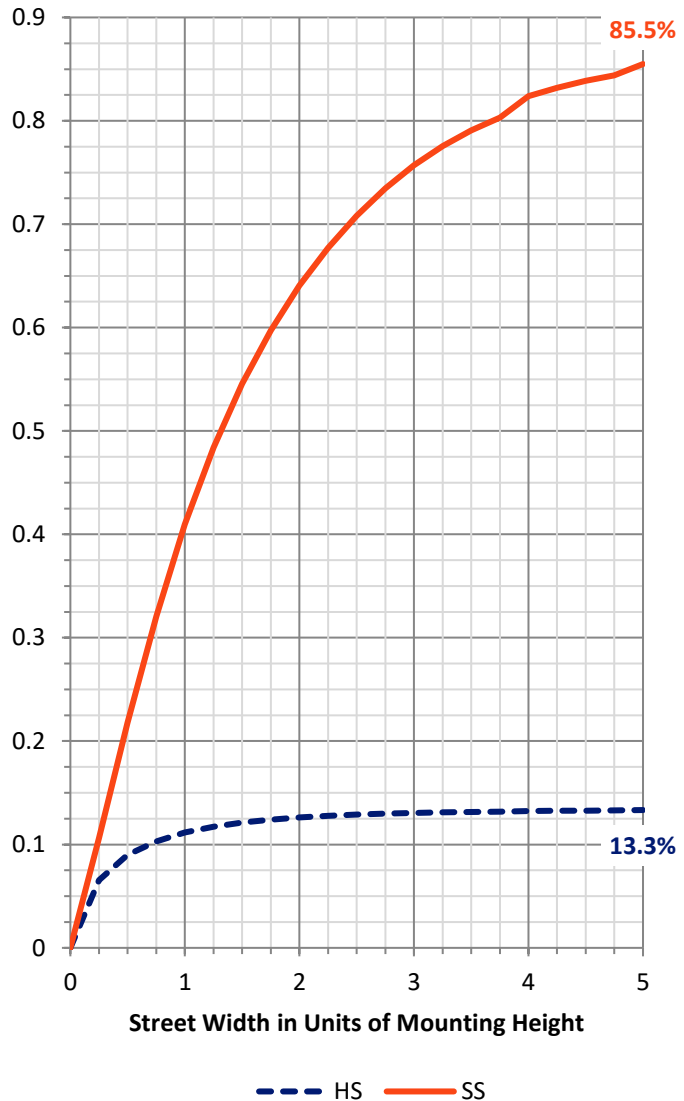
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5084.8 | 0.0 | 5084.8 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 32740.0 | 0.0 | 32740.0 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 37824.8 | 0.0 | 37824.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 580.0 | 1.5 |
| 10°-20° | 1487.4 | 3.9 |
| 20°-30° | 2316.2 | 6.1 |
| 30°-40° | 3397.4 | 9.0 |
| 40°-50° | 5039.6 | 13.3 |
| 50°-60° | 7140.1 | 18.9 |
| 60°-70° | 9057.5 | 23.9 |
| 70°-80° | 7539.7 | 19.9 |
| 80°-90° | 1266.8 | 3.3 |
| 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° | 37824.8 | 100.0 |
| 0°-180° | 37824.8 | 100.0 |

Coefficient of Utilization



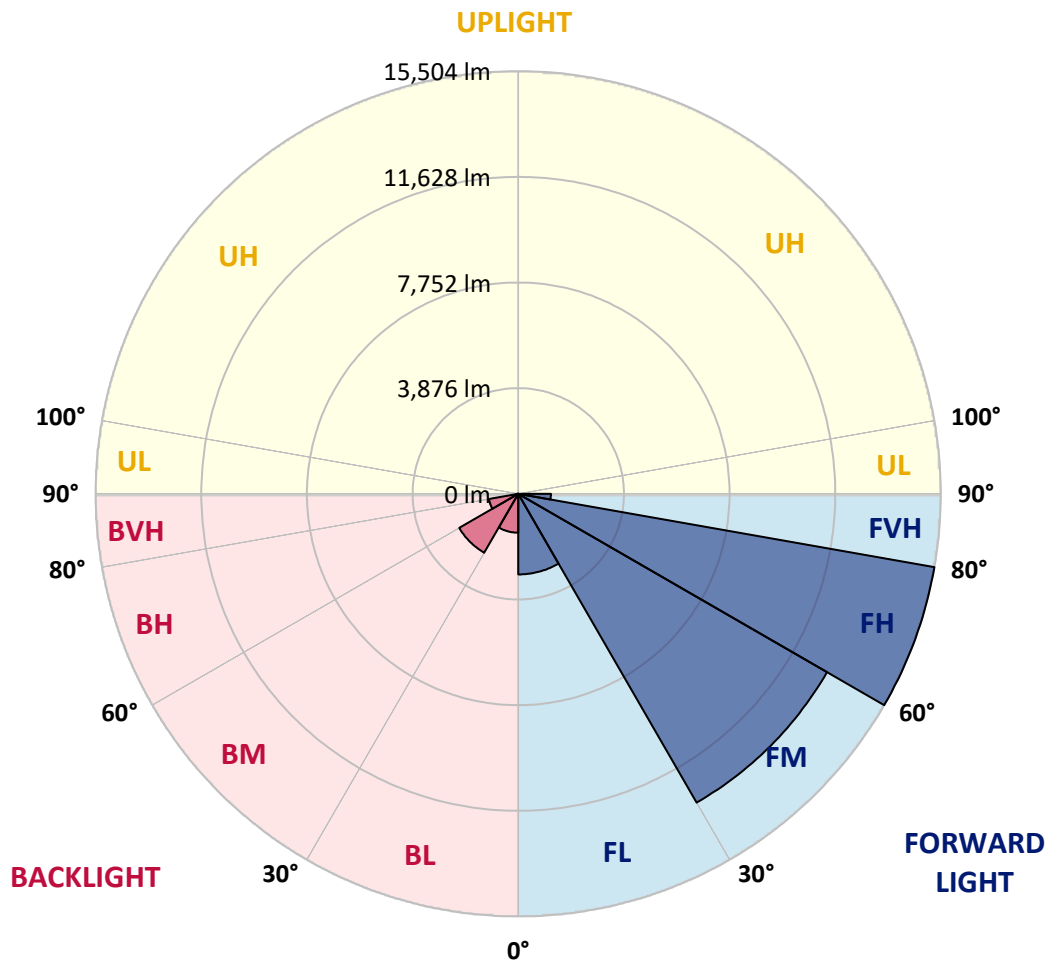
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 CATALOG NUMBER: GLAN-SA8B-840-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2956.9 | 7.8 | | | |
| FM (30°-60°) | 13080.8 | 34.6 | | | |
| FH (60°-80°) | 15504.2 | 41.0 | | | G5 |
| FVH (80°-90°) | 1198.1 | 3.2 | | | G5 |
| BL (0°-30°) | 1426.8 | 3.8 | B3/2500 | | |
| BM (30°-60°) | 2496.3 | 6.6 | B2/2500 | | |
| BH (60°-80°) | 1092.9 | 2.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 68.7 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6645.2 | 6645.2 | 6645.2 | 6645.2 | 6645.2 | 6645.2 | 6645.2 | 6645.2 | 6645.2 | 6645.2 | 6645.2 |
| 2.5° | 6912.2 | 6946.3 | 6929.3 | 6905.8 | 6890.8 | 6875.8 | 6854.5 | 6792.6 | 6743.5 | 6690.1 | 6606.7 |
| 5° | 6963.5 | 6984.8 | 6969.9 | 6939.9 | 6905.8 | 6890.8 | 6850.2 | 6769.0 | 6690.1 | 6600.3 | 6476.5 |
| 7.5° | 6933.5 | 6942.1 | 6925.0 | 6888.7 | 6858.8 | 6831.0 | 6784.0 | 6694.3 | 6598.1 | 6489.2 | 6326.9 |
| 10° | 6826.7 | 6858.8 | 6858.8 | 6828.8 | 6799.0 | 6784.0 | 6737.0 | 6651.6 | 6564.0 | 6440.1 | 6247.9 |
| 12.5° | 6739.2 | 6773.3 | 6801.1 | 6792.6 | 6790.4 | 6790.4 | 6754.2 | 6690.1 | 6587.5 | 6470.1 | 6241.5 |
| 15° | 6679.4 | 6719.9 | 6779.7 | 6814.0 | 6835.3 | 6841.7 | 6826.7 | 6771.2 | 6666.5 | 6529.9 | 6267.1 |
| 17.5° | 6666.5 | 6715.6 | 6824.6 | 6899.4 | 6954.9 | 6952.8 | 6948.5 | 6871.6 | 6756.3 | 6615.3 | 6299.2 |
| 20° | 6724.2 | 6788.3 | 6939.9 | 7057.4 | 7138.6 | 7123.7 | 7100.1 | 6999.7 | 6865.2 | 6707.1 | 6329.0 |
| 22.5° | 6897.2 | 6963.5 | 7130.1 | 7258.3 | 7337.2 | 7337.2 | 7266.7 | 7134.4 | 6991.2 | 6814.0 | 6369.6 |
| 25° | 7145.0 | 7217.6 | 7394.9 | 7525.2 | 7561.5 | 7533.8 | 7463.3 | 7303.1 | 7138.6 | 6967.7 | 6455.1 |
| 27.5° | 7448.3 | 7535.9 | 7700.4 | 7809.3 | 7798.6 | 7777.2 | 7704.7 | 7499.6 | 7335.1 | 7179.2 | 6600.3 |
| 30° | 7826.4 | 7890.5 | 8061.4 | 8087.0 | 8048.5 | 8044.2 | 7941.7 | 7736.7 | 7582.9 | 7463.3 | 6807.6 |
| 32.5° | 8183.1 | 8240.8 | 8377.5 | 8388.2 | 8319.8 | 8328.3 | 8232.2 | 8044.2 | 7956.7 | 7914.0 | 7155.6 |
| 35° | 8561.2 | 8591.1 | 8708.6 | 8695.8 | 8650.9 | 8644.5 | 8606.0 | 8426.7 | 8454.4 | 8531.3 | 7649.1 |
| 37.5° | 8877.3 | 8937.1 | 9003.3 | 9014.0 | 9011.9 | 9033.3 | 9058.9 | 8973.5 | 9133.7 | 9375.0 | 8296.3 |
| 40° | 9167.8 | 9219.1 | 9317.4 | 9351.5 | 9434.8 | 9477.6 | 9565.1 | 9567.3 | 9936.8 | 10334.1 | 9093.1 |
| 42.5° | 9364.4 | 9451.9 | 9635.6 | 9697.6 | 9900.5 | 10028.7 | 10158.9 | 10297.8 | 10833.9 | 11344.4 | 10032.9 |
| 45° | 9535.3 | 9650.6 | 9956.0 | 10148.3 | 10423.8 | 10579.8 | 10855.3 | 11145.8 | 11916.9 | 12585.5 | 10987.7 |
| 47.5° | 9793.7 | 9896.2 | 10246.5 | 10586.2 | 11002.6 | 11182.1 | 11594.4 | 12028.0 | 13036.2 | 13768.9 | 11901.9 |
| 50° | 10152.6 | 10214.4 | 10571.2 | 11124.4 | 11656.3 | 11887.0 | 12431.7 | 13057.5 | 14232.3 | 14937.3 | 12705.1 |
| 52.5° | 10611.8 | 10637.4 | 10921.5 | 11658.4 | 12359.1 | 12645.3 | 13367.3 | 14097.8 | 15279.0 | 15951.8 | 13341.6 |
| 55° | 11154.4 | 11111.6 | 11333.7 | 12224.4 | 13162.2 | 13536.0 | 14311.4 | 15150.9 | 16455.9 | 16772.1 | 13805.1 |
| 57.5° | 11690.5 | 11624.2 | 11801.6 | 12912.3 | 14153.3 | 14604.0 | 15507.5 | 16235.9 | 17506.8 | 17538.9 | 14129.8 |
| 60° | 12258.7 | 12209.6 | 12421.0 | 13719.7 | 15368.7 | 15902.7 | 16737.9 | 17361.6 | 18523.6 | 18072.9 | 14181.1 |
| 62.5° | 12841.8 | 12762.8 | 13063.9 | 14627.5 | 16737.9 | 17222.8 | 18032.3 | 18557.8 | 19521.1 | 18271.6 | 13687.7 |
| 65° | 13407.8 | 13371.6 | 13837.1 | 15706.2 | 18297.2 | 18848.3 | 19634.3 | 19991.1 | 20320.0 | 17972.5 | 12463.7 |
| 67.5° | 14010.2 | 14082.8 | 14826.2 | 17145.9 | 20330.7 | 21022.8 | 21870.8 | 21535.4 | 20548.6 | 16556.3 | 10496.4 |
| 70° | 14928.7 | 14975.7 | 16124.8 | 19032.0 | 22951.6 | 23786.8 | 24196.9 | 22084.4 | 19446.4 | 13867.1 | 7890.5 |
| 72.5° | 15323.9 | 15531.1 | 17284.7 | 21012.1 | 25929.2 | 26439.8 | 24978.7 | 20860.4 | 16199.6 | 9419.9 | 4146.0 |
| 73° | 15236.3 | 15484.1 | 17338.1 | 21313.3 | 26162.1 | 26698.2 | 24812.1 | 20230.3 | 15059.0 | 8112.6 | 3554.3 |
| 75° | 14144.8 | 14450.2 | 16643.9 | 21061.2 | 25709.2 | 25388.8 | 22133.5 | 17242.0 | 10176.0 | 3688.9 | 1619.1 |
| 77.5° | 11160.7 | 11248.3 | 13187.8 | 17007.0 | 20245.2 | 19651.5 | 16564.9 | 10776.2 | 4156.7 | 1371.3 | 918.5 |
| 80° | 5598.5 | 5921.1 | 7433.3 | 9742.4 | 13538.2 | 13343.7 | 10455.8 | 5096.5 | 1732.3 | 805.3 | 608.8 |
| 82.5° | 2693.6 | 2922.1 | 3620.6 | 4750.6 | 7480.4 | 7303.1 | 5177.7 | 2785.4 | 1100.0 | 470.0 | 358.9 |
| 85° | 1734.5 | 1905.4 | 2304.8 | 2266.3 | 3075.9 | 2937.0 | 2326.1 | 2108.2 | 651.5 | 245.7 | 249.9 |
| 87.5° | 1144.9 | 1253.8 | 1503.8 | 1202.5 | 1119.3 | 1012.5 | 1027.4 | 1187.7 | 128.2 | 94.0 | 34.1 |
| 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° | 6645.2 | 6645.2 | 6645.2 | 6645.2 | 6645.2 | 6645.2 | 6645.2 | 6645.2 | 6645.2 | 6645.2 | 6645.2 |
| 2.5° | 6572.6 | 6544.7 | 6452.9 | 6363.3 | 6277.8 | 6196.6 | 6143.3 | 6072.7 | 6025.8 | 6038.5 | 6057.8 |
| 5° | 6408.1 | 6346.1 | 6183.8 | 6025.8 | 5876.2 | 5699.0 | 5555.8 | 5440.4 | 5352.9 | 5320.8 | 5314.4 |
| 7.5° | 6235.1 | 6130.4 | 5897.6 | 5626.3 | 5372.1 | 5152.1 | 4897.9 | 4771.9 | 4624.5 | 4573.3 | 4556.1 |
| 10° | 6130.4 | 5989.4 | 5662.6 | 5284.5 | 4902.2 | 4536.9 | 4261.3 | 4037.1 | 3834.2 | 3795.7 | 3776.5 |
| 12.5° | 6100.5 | 5914.7 | 5474.7 | 4987.6 | 4479.3 | 4030.7 | 3622.7 | 3327.9 | 3131.4 | 3086.6 | 3020.4 |
| 15° | 6083.4 | 5852.7 | 5299.5 | 4688.6 | 4043.5 | 3496.7 | 3067.3 | 2723.4 | 2544.0 | 2424.4 | 2426.5 |
| 17.5° | 6068.5 | 5782.2 | 5102.9 | 4361.8 | 3667.5 | 3037.4 | 2563.2 | 2253.5 | 2089.0 | 2025.0 | 2018.6 |
| 20° | 6047.1 | 5699.0 | 4876.5 | 4017.9 | 3238.2 | 2618.8 | 2189.5 | 1958.8 | 1847.7 | 1794.3 | 1792.1 |
| 22.5° | 6038.5 | 5617.7 | 4654.4 | 3667.5 | 2858.0 | 2296.3 | 1941.6 | 1779.3 | 1708.8 | 1672.5 | 1672.5 |
| 25° | 6059.9 | 5560.1 | 4421.6 | 3334.3 | 2520.5 | 2020.7 | 1770.7 | 1659.7 | 1619.1 | 1599.9 | 1593.4 |
| 27.5° | 6126.1 | 5534.5 | 4190.9 | 3001.1 | 2210.8 | 1832.7 | 1655.4 | 1578.6 | 1548.6 | 1533.6 | 1535.8 |
| 30° | 6252.2 | 5532.4 | 3964.5 | 2672.2 | 1980.1 | 1689.6 | 1563.6 | 1510.2 | 1486.6 | 1478.1 | 1476.0 |
| 32.5° | 6455.1 | 5579.3 | 3742.3 | 2400.9 | 1785.7 | 1570.0 | 1478.1 | 1439.7 | 1429.0 | 1422.6 | 1420.4 |
| 35° | 6799.0 | 5711.7 | 3522.3 | 2153.1 | 1636.2 | 1463.2 | 1397.0 | 1377.7 | 1362.8 | 1369.2 | 1371.3 |
| 37.5° | 7262.5 | 5940.3 | 3313.0 | 1958.8 | 1523.0 | 1384.1 | 1328.6 | 1311.5 | 1303.0 | 1309.4 | 1315.8 |
| 40° | 7884.0 | 6269.2 | 3137.9 | 1802.8 | 1441.8 | 1317.9 | 1268.8 | 1253.8 | 1245.3 | 1255.9 | 1258.1 |
| 42.5° | 8569.7 | 6649.5 | 2992.6 | 1681.1 | 1375.6 | 1262.4 | 1215.4 | 1198.3 | 1191.9 | 1198.3 | 1200.4 |
| 45° | 9274.6 | 7091.6 | 2917.8 | 1593.4 | 1320.0 | 1221.8 | 1172.7 | 1153.4 | 1138.5 | 1134.3 | 1140.6 |
| 47.5° | 9968.9 | 7476.1 | 2915.7 | 1540.0 | 1275.2 | 1185.5 | 1132.1 | 1110.7 | 1091.5 | 1080.9 | 1078.7 |
| 50° | 10534.9 | 7781.5 | 2967.0 | 1516.6 | 1236.8 | 1144.9 | 1091.5 | 1070.2 | 1044.5 | 1023.2 | 1027.4 |
| 52.5° | 10962.1 | 7980.2 | 2990.4 | 1505.9 | 1215.4 | 1102.2 | 1048.8 | 1029.6 | 999.7 | 971.9 | 971.9 |
| 55° | 11237.6 | 8027.2 | 2932.7 | 1495.2 | 1198.3 | 1057.3 | 999.7 | 982.5 | 952.7 | 924.9 | 924.9 |
| 57.5° | 11331.6 | 7881.9 | 2725.6 | 1469.6 | 1181.2 | 1018.9 | 950.5 | 935.6 | 912.1 | 884.3 | 880.0 |
| 60° | 11113.7 | 7390.6 | 2362.5 | 1392.7 | 1147.0 | 978.3 | 897.1 | 890.7 | 882.2 | 858.7 | 856.6 |
| 62.5° | 10274.3 | 6348.3 | 1967.3 | 1292.3 | 1089.3 | 935.6 | 848.0 | 858.7 | 865.1 | 852.3 | 850.2 |
| 65° | 8877.3 | 5154.2 | 1681.1 | 1153.4 | 1012.5 | 875.7 | 794.6 | 822.3 | 839.5 | 839.5 | 835.2 |
| 67.5° | 7200.6 | 3958.1 | 1416.2 | 1033.8 | 916.4 | 794.6 | 734.8 | 756.1 | 769.0 | 764.7 | 775.4 |
| 70° | 5117.9 | 2680.7 | 1153.4 | 897.1 | 794.6 | 702.7 | 657.9 | 657.9 | 649.3 | 645.0 | 645.0 |
| 72.5° | 2482.0 | 1531.5 | 935.6 | 749.8 | 677.1 | 600.2 | 563.9 | 548.9 | 531.8 | 529.7 | 519.1 |
| 73° | 2074.1 | 1373.4 | 892.9 | 722.0 | 649.3 | 585.3 | 544.7 | 521.2 | 510.5 | 502.0 | 499.8 |
| 75° | 1262.4 | 1042.4 | 745.5 | 608.8 | 553.2 | 504.1 | 467.8 | 446.4 | 435.7 | 429.3 | 427.2 |
| 77.5° | 830.9 | 777.5 | 578.9 | 465.7 | 422.9 | 393.0 | 378.1 | 356.8 | 350.3 | 341.8 | 341.8 |
| 80° | 619.5 | 593.8 | 414.4 | 328.9 | 303.3 | 277.7 | 273.4 | 269.1 | 252.0 | 241.4 | 237.1 |
| 82.5° | 399.5 | 422.9 | 282.0 | 220.0 | 192.3 | 170.9 | 173.0 | 179.4 | 162.3 | 147.4 | 143.1 |
| 85° | 284.1 | 305.5 | 170.9 | 100.4 | 81.2 | 70.5 | 79.1 | 70.5 | 72.7 | 57.7 | 47.0 |
| 87.5° | 47.0 | 81.2 | 29.9 | 12.8 | 6.4 | 4.3 | 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)