

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: P457247

Luminaire Tested: **GLAN-SA8C-750-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8C-750-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46698 lumens
Efficiency: N/A
Efficacy: 108.9 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

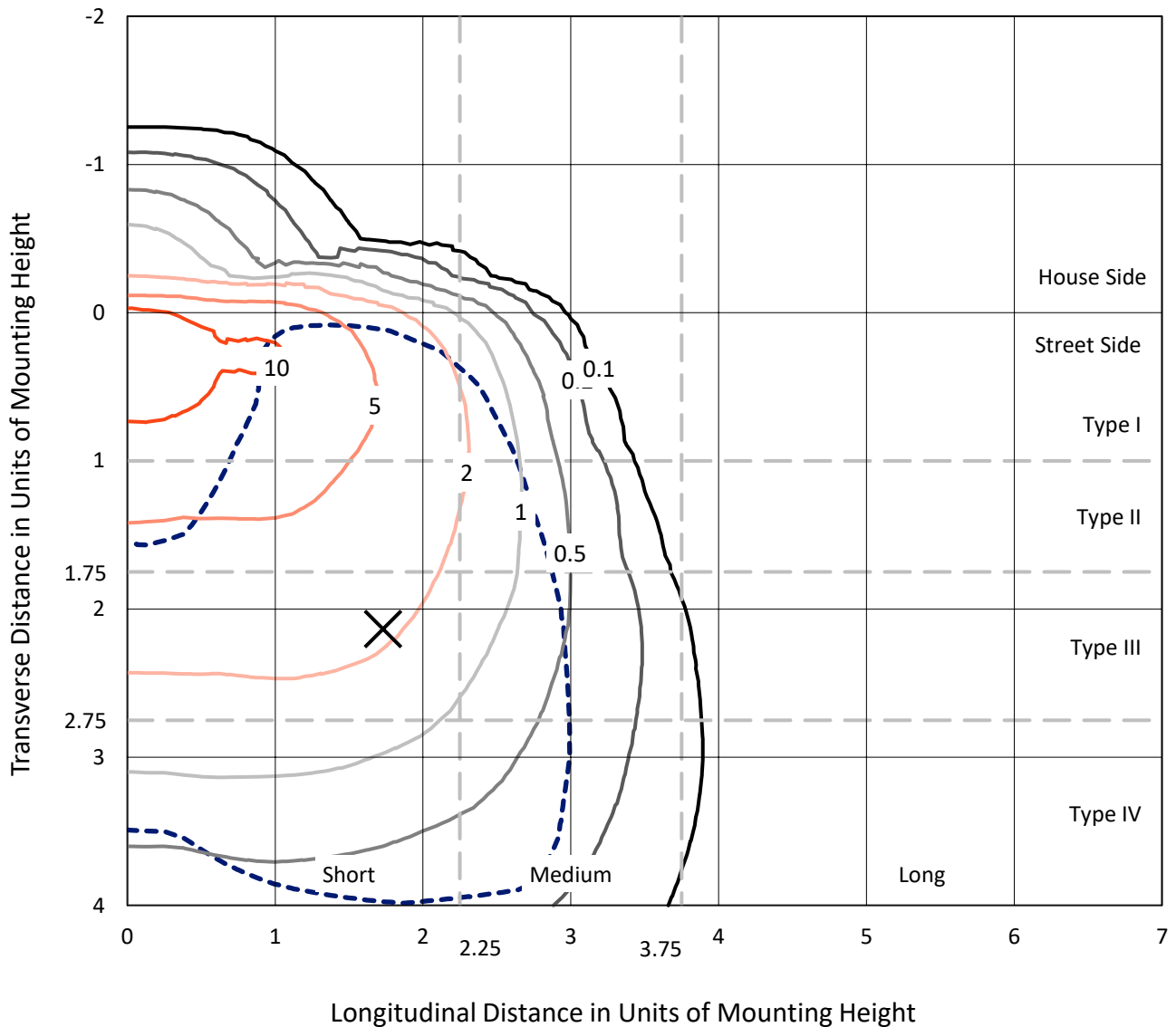
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

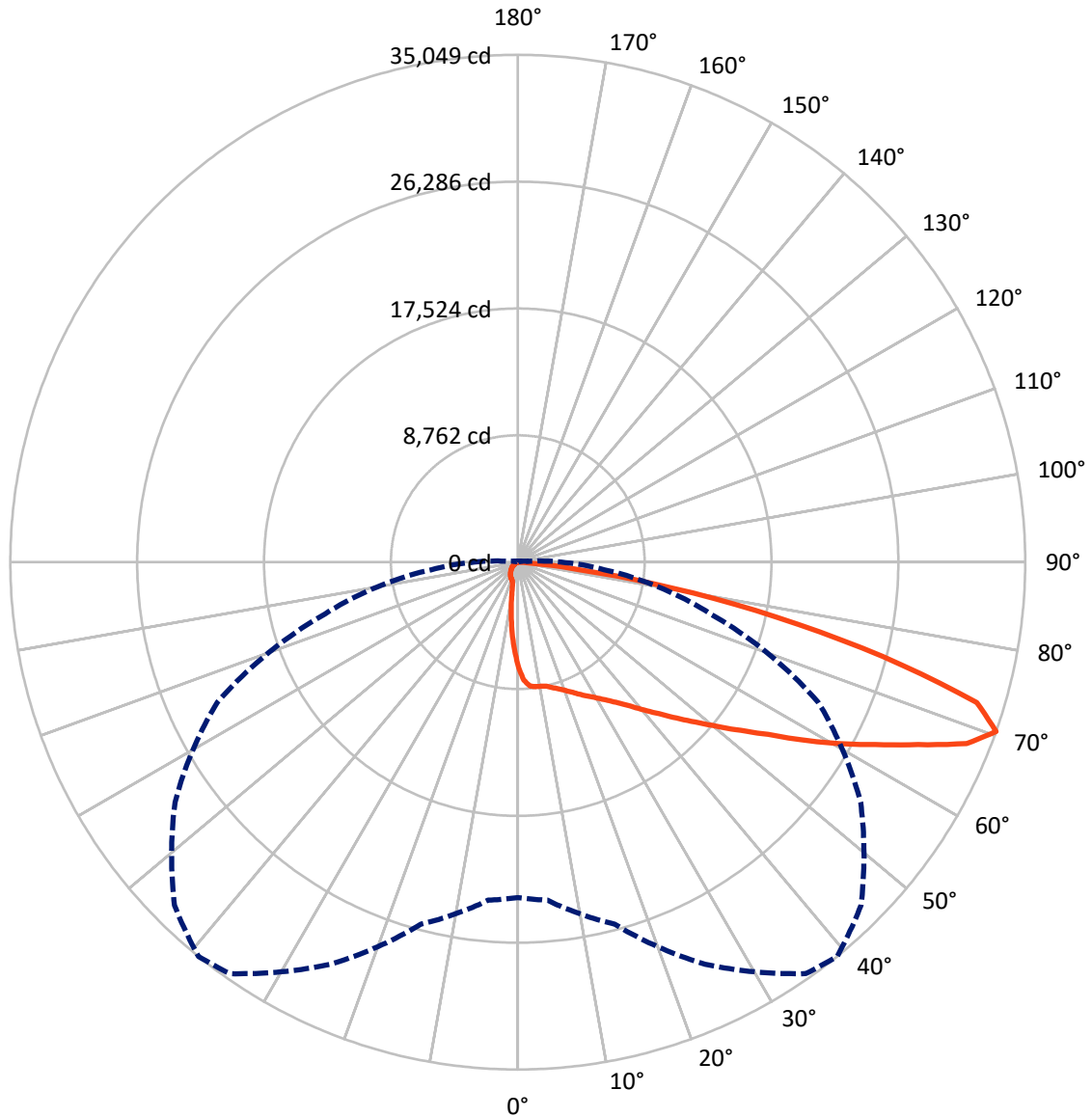
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3044.9 | 0.0 | 3044.9 |
| | % Fixture | 6.5 | 0.0 | 6.5 |
| Street Side | Lumens | 43653.1 | 0.0 | 43653.1 |
| | % Fixture | 93.5 | 0.0 | 93.5 |
| Total | Lumens | 46698.0 | 0.0 | 46698.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 621.5 | 1.3 |
| 10°-20° | 1615.1 | 3.5 |
| 20°-30° | 2705.7 | 5.8 |
| 30°-40° | 4196.2 | 9.0 |
| 40°-50° | 6649.7 | 14.2 |
| 50°-60° | 9747.5 | 20.9 |
| 60°-70° | 12493.9 | 26.8 |
| 70°-80° | 7850.7 | 16.8 |
| 80°-90° | 817.9 | 1.8 |
| 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° | 46698.0 | 100.0 |
| 0°-180° | 46698.0 | 100.0 |

Coefficient of Utilization



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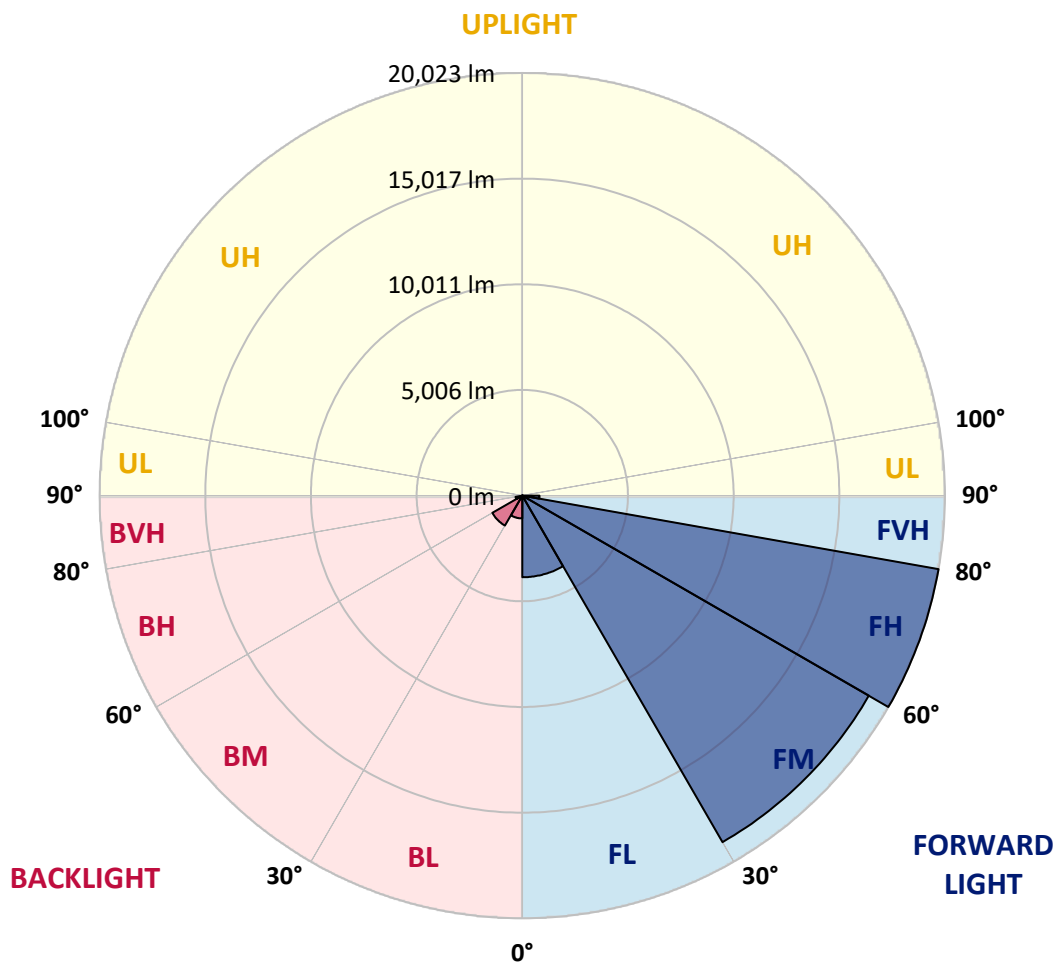
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 3864.0 | 8.3 | | | |
| FM | (30°-60°) | 18954.6 | 40.6 | | | |
| FH | (60°-80°) | 20022.6 | 42.9 | | | G5 |
| FVH | (80°-90°) | 811.8 | 1.7 | | | G5 |
| BL | (0°-30°) | 1078.2 | 2.3 | B3/2500 | | |
| BM | (30°-60°) | 1638.7 | 3.5 | B2/2500 | | |
| BH | (60°-80°) | 322.0 | 0.7 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 6.0 | 0.0 | | | G0/10 |
| 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° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7286.5 | 7286.5 | 7286.5 | 7286.5 | 7286.5 | 7286.5 | 7286.5 | 7286.5 | 7286.5 | 7286.5 | 7286.5 |
| 2.5° | 8419.3 | 8391.1 | 8353.4 | 8309.5 | 8184.0 | 8162.0 | 8086.7 | 7926.6 | 7735.2 | 7578.3 | 7361.8 |
| 5° | 8817.8 | 8833.5 | 8805.3 | 8726.8 | 8635.8 | 8582.5 | 8488.4 | 8240.4 | 7992.5 | 7675.6 | 7321.0 |
| 7.5° | 8908.8 | 8940.2 | 8905.7 | 8830.4 | 8742.5 | 8686.0 | 8610.7 | 8397.3 | 8108.7 | 7747.8 | 7261.4 |
| 10° | 8899.4 | 8937.1 | 8915.1 | 8846.1 | 8773.9 | 8720.6 | 8639.0 | 8469.5 | 8237.3 | 7857.6 | 7280.2 |
| 12.5° | 8883.7 | 8934.0 | 8930.8 | 8896.3 | 8836.7 | 8795.9 | 8745.7 | 8595.0 | 8378.5 | 8017.6 | 7383.8 |
| 15° | 8839.8 | 8902.6 | 8959.1 | 8987.3 | 8990.4 | 8990.4 | 8927.7 | 8767.6 | 8560.5 | 8227.9 | 7518.7 |
| 17.5° | 8858.6 | 8930.8 | 9072.0 | 9153.6 | 9210.1 | 9203.8 | 9137.9 | 8965.3 | 8736.3 | 8444.4 | 7659.9 |
| 20° | 8974.7 | 9072.0 | 9269.7 | 9432.9 | 9489.4 | 9470.6 | 9382.7 | 9181.9 | 8921.4 | 8629.6 | 7798.0 |
| 22.5° | 9260.3 | 9348.2 | 9596.1 | 9787.5 | 9828.3 | 9778.1 | 9652.6 | 9379.6 | 9144.2 | 8830.4 | 7964.3 |
| 25° | 9687.1 | 9790.6 | 10019.7 | 10164.1 | 10164.1 | 10135.8 | 9960.1 | 9640.0 | 9395.2 | 9109.7 | 8180.8 |
| 27.5° | 10204.9 | 10292.7 | 10518.7 | 10647.3 | 10572.0 | 10490.4 | 10314.7 | 9928.7 | 9693.4 | 9461.1 | 8441.3 |
| 30° | 10728.9 | 10785.4 | 11023.9 | 11080.4 | 11001.9 | 10898.4 | 10710.1 | 10324.1 | 10117.0 | 9938.1 | 8817.8 |
| 32.5° | 11224.7 | 11347.1 | 11544.8 | 11532.2 | 11425.5 | 11375.3 | 11202.7 | 10791.7 | 10675.6 | 10656.7 | 9345.0 |
| 35° | 11720.5 | 11814.7 | 11990.4 | 12034.3 | 11940.2 | 11930.8 | 11805.2 | 11500.9 | 11504.0 | 11626.4 | 10167.2 |
| 37.5° | 12147.3 | 12232.0 | 12439.1 | 12536.4 | 12555.2 | 12602.3 | 12552.1 | 12351.3 | 12636.8 | 12972.6 | 11256.1 |
| 40° | 12505.0 | 12624.3 | 12887.9 | 13057.3 | 13251.9 | 13424.5 | 13433.9 | 13477.8 | 14052.1 | 14629.5 | 12677.6 |
| 42.5° | 12784.3 | 12950.6 | 13333.5 | 13647.3 | 14092.9 | 14312.5 | 14488.3 | 14729.9 | 15696.4 | 16559.3 | 14353.3 |
| 45° | 13148.3 | 13339.7 | 13816.7 | 14309.4 | 15006.0 | 15366.9 | 15611.7 | 16258.1 | 17629.4 | 18806.2 | 16073.0 |
| 47.5° | 13750.8 | 13851.2 | 14337.6 | 15056.2 | 15972.5 | 16487.2 | 16964.2 | 17943.2 | 19703.6 | 20758.0 | 17503.9 |
| 50° | 14525.9 | 14591.8 | 14959.0 | 15956.8 | 17143.0 | 17820.8 | 18690.1 | 19841.7 | 21856.3 | 22377.2 | 18313.5 |
| 52.5° | 15382.6 | 15404.6 | 15680.7 | 16948.5 | 18454.7 | 19308.3 | 20281.0 | 21702.6 | 23610.5 | 23532.0 | 18850.1 |
| 55° | 16377.3 | 16346.0 | 16581.3 | 18024.8 | 20008.0 | 20984.0 | 22116.8 | 23607.3 | 25132.4 | 24351.1 | 19157.6 |
| 57.5° | 17516.4 | 17431.7 | 17660.8 | 19452.6 | 21997.5 | 23164.9 | 24316.5 | 25251.7 | 26312.3 | 25038.3 | 19305.1 |
| 60° | 18708.9 | 18539.4 | 18812.4 | 21056.1 | 24341.6 | 25449.4 | 26406.5 | 26657.5 | 27555.0 | 25584.3 | 19050.9 |
| 62.5° | 19659.7 | 19662.9 | 20171.2 | 22763.2 | 26751.6 | 27721.3 | 28229.7 | 28455.6 | 28625.0 | 25465.1 | 17714.1 |
| 65° | 21144.0 | 21194.2 | 22007.0 | 25132.4 | 29541.3 | 30382.3 | 30730.7 | 29996.4 | 28672.1 | 23983.9 | 15705.8 |
| 67.5° | 22675.4 | 22835.4 | 24322.8 | 28396.0 | 32764.1 | 33441.9 | 32993.2 | 30294.5 | 27391.8 | 20604.3 | 11908.8 |
| 70° | 23174.3 | 23437.9 | 25888.7 | 30642.8 | 34697.1 | 35048.6 | 33529.8 | 28904.3 | 22898.2 | 13775.9 | 5993.6 |
| 72.5° | 21235.0 | 21661.8 | 24988.1 | 29823.8 | 33463.9 | 33159.5 | 29999.5 | 24241.2 | 14557.3 | 5231.1 | 1829.5 |
| 75° | 14974.6 | 15162.9 | 20767.4 | 24740.2 | 26914.8 | 26051.9 | 22819.7 | 15627.4 | 5987.3 | 1468.6 | 627.6 |
| 77.5° | 7732.1 | 7641.1 | 12351.3 | 16415.0 | 19195.3 | 18301.0 | 14943.3 | 8089.8 | 2268.8 | 611.9 | 389.1 |
| 80° | 3997.8 | 4063.7 | 5344.1 | 8601.3 | 11717.4 | 10782.2 | 7967.4 | 3749.9 | 1208.1 | 338.9 | 298.1 |
| 82.5° | 2240.5 | 2102.5 | 3072.1 | 3756.2 | 5479.0 | 4296.0 | 3056.4 | 2654.8 | 527.2 | 204.0 | 282.4 |
| 85° | 407.9 | 426.8 | 1685.1 | 2030.3 | 1901.6 | 1208.1 | 985.3 | 1773.0 | 153.8 | 113.0 | 197.7 |
| 87.5° | 6.3 | 6.3 | 326.4 | 583.7 | 370.3 | 169.5 | 310.7 | 254.2 | 31.4 | 43.9 | 34.5 |
| 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° | 7286.5 | 7286.5 | 7286.5 | 7286.5 | 7286.5 | 7286.5 | 7286.5 | 7286.5 | 7286.5 | 7286.5 | 7286.5 |
| 2.5° | 7252.0 | 7132.7 | 6909.9 | 6690.3 | 6411.0 | 6181.9 | 6028.1 | 5868.1 | 5704.9 | 5717.5 | 5755.1 |
| 5° | 7126.5 | 6919.3 | 6480.0 | 6015.6 | 5570.0 | 5168.3 | 4772.9 | 4418.3 | 4274.0 | 4142.2 | 4148.5 |
| 7.5° | 7000.9 | 6709.1 | 6065.8 | 5337.8 | 4663.1 | 3979.0 | 3483.2 | 3075.3 | 2858.7 | 2695.6 | 2648.5 |
| 10° | 6944.4 | 6558.5 | 5686.1 | 4685.1 | 3728.0 | 2981.1 | 2344.1 | 2011.5 | 1754.2 | 1672.6 | 1694.5 |
| 12.5° | 6969.5 | 6483.2 | 5344.1 | 4095.1 | 2956.0 | 2077.4 | 1631.8 | 1462.3 | 1405.8 | 1396.4 | 1390.1 |
| 15° | 7016.6 | 6429.8 | 5008.3 | 3442.4 | 2171.5 | 1543.9 | 1371.3 | 1339.9 | 1333.7 | 1327.4 | 1330.5 |
| 17.5° | 7079.4 | 6382.7 | 4650.6 | 2830.5 | 1666.3 | 1349.3 | 1299.1 | 1283.5 | 1280.3 | 1280.3 | 1280.3 |
| 20° | 7142.1 | 6329.4 | 4252.0 | 2284.5 | 1390.1 | 1274.0 | 1242.7 | 1233.2 | 1230.1 | 1230.1 | 1227.0 |
| 22.5° | 7214.3 | 6282.3 | 3847.2 | 1794.9 | 1280.3 | 1220.7 | 1192.4 | 1186.2 | 1183.0 | 1179.9 | 1179.9 |
| 25° | 7317.9 | 6222.7 | 3417.3 | 1468.6 | 1211.3 | 1170.5 | 1142.2 | 1136.0 | 1132.8 | 1120.3 | 1123.4 |
| 27.5° | 7455.9 | 6178.8 | 2974.8 | 1267.8 | 1148.5 | 1107.7 | 1088.9 | 1079.5 | 1073.2 | 1063.8 | 1066.9 |
| 30° | 7644.2 | 6141.1 | 2504.1 | 1157.9 | 1076.3 | 1041.8 | 1023.0 | 1016.7 | 1010.4 | 1001.0 | 1001.0 |
| 32.5° | 7970.6 | 6156.8 | 2008.3 | 1070.1 | 1010.4 | 969.6 | 950.8 | 944.5 | 938.3 | 928.9 | 928.9 |
| 35° | 8460.1 | 6247.8 | 1606.7 | 994.8 | 932.0 | 891.2 | 872.4 | 872.4 | 863.0 | 850.4 | 847.3 |
| 37.5° | 9260.3 | 6480.0 | 1289.7 | 922.6 | 856.7 | 819.0 | 797.1 | 790.8 | 781.4 | 762.5 | 759.4 |
| 40° | 10204.9 | 6840.9 | 1085.8 | 850.4 | 787.6 | 750.0 | 731.2 | 712.3 | 687.2 | 668.4 | 665.3 |
| 42.5° | 11391.0 | 7211.2 | 941.4 | 778.2 | 721.7 | 687.2 | 665.3 | 633.9 | 596.2 | 571.1 | 568.0 |
| 45° | 12627.4 | 7550.1 | 844.1 | 712.3 | 659.0 | 630.7 | 605.6 | 555.4 | 508.4 | 477.0 | 473.8 |
| 47.5° | 13550.0 | 7612.8 | 765.7 | 649.6 | 605.6 | 577.4 | 542.9 | 480.1 | 417.4 | 389.1 | 379.7 |
| 50° | 13986.2 | 7308.5 | 684.1 | 586.8 | 552.3 | 520.9 | 477.0 | 404.8 | 335.8 | 301.3 | 295.0 |
| 52.5° | 14139.9 | 6781.3 | 618.2 | 530.3 | 498.9 | 461.3 | 407.9 | 326.4 | 263.6 | 229.1 | 225.9 |
| 55° | 14077.2 | 6116.0 | 558.6 | 477.0 | 436.2 | 392.3 | 338.9 | 260.5 | 194.6 | 166.3 | 160.0 |
| 57.5° | 13747.7 | 5268.7 | 498.9 | 423.6 | 373.4 | 329.5 | 269.9 | 194.6 | 131.8 | 106.7 | 103.6 |
| 60° | 12859.6 | 4113.9 | 439.3 | 364.0 | 316.9 | 269.9 | 213.4 | 138.1 | 81.6 | 59.6 | 59.6 |
| 62.5° | 11359.6 | 3053.3 | 382.8 | 304.4 | 266.7 | 216.5 | 150.6 | 87.9 | 43.9 | 31.4 | 28.2 |
| 65° | 9492.5 | 2253.1 | 320.1 | 257.3 | 222.8 | 169.5 | 106.7 | 53.3 | 22.0 | 9.4 | 6.3 |
| 67.5° | 6624.4 | 1390.1 | 266.7 | 210.2 | 182.0 | 122.4 | 65.9 | 22.0 | 9.4 | 0.0 | 0.0 |
| 70° | 3009.4 | 662.1 | 204.0 | 160.0 | 138.1 | 87.9 | 34.5 | 12.6 | 6.3 | 0.0 | 0.0 |
| 72.5° | 935.1 | 348.3 | 144.3 | 116.1 | 94.1 | 56.5 | 18.8 | 9.4 | 6.3 | 0.0 | 0.0 |
| 75° | 433.0 | 222.8 | 91.0 | 62.8 | 53.3 | 28.2 | 12.6 | 6.3 | 3.1 | 0.0 | 0.0 |
| 77.5° | 323.2 | 172.6 | 53.3 | 34.5 | 28.2 | 18.8 | 9.4 | 6.3 | 3.1 | 0.0 | 0.0 |
| 80° | 282.4 | 87.9 | 31.4 | 22.0 | 15.7 | 12.6 | 6.3 | 3.1 | 0.0 | 0.0 | 0.0 |
| 82.5° | 254.2 | 43.9 | 18.8 | 12.6 | 9.4 | 6.3 | 3.1 | 3.1 | 0.0 | 0.0 | 0.0 |
| 85° | 138.1 | 25.1 | 12.6 | 9.4 | 6.3 | 3.1 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 25.1 | 12.6 | 9.4 | 6.3 | 6.3 | 3.1 | 3.1 | 3.1 | 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)