

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: P652927

Luminaire Tested: **GLAN-SA6C-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6C-840-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26155.1 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

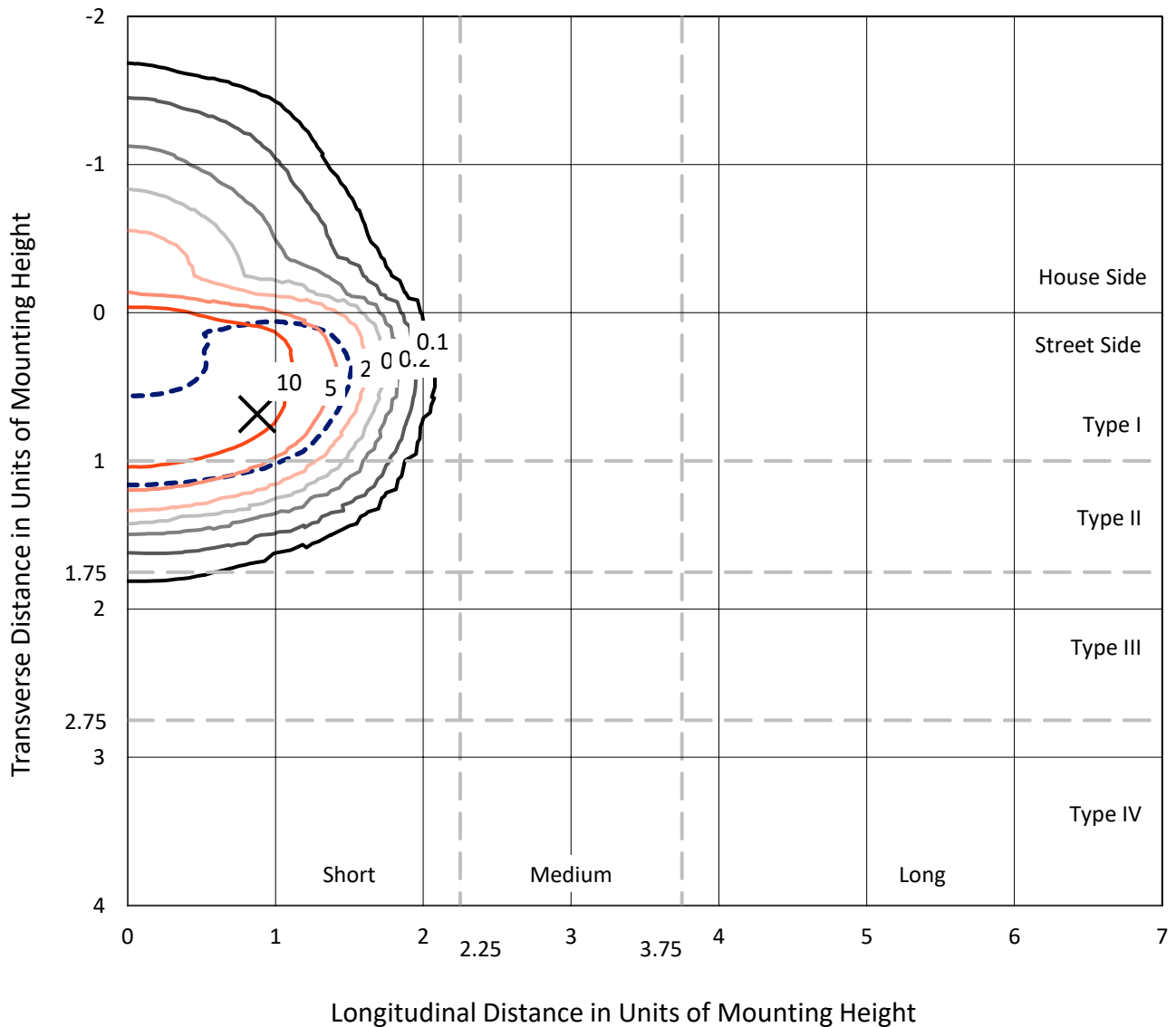
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

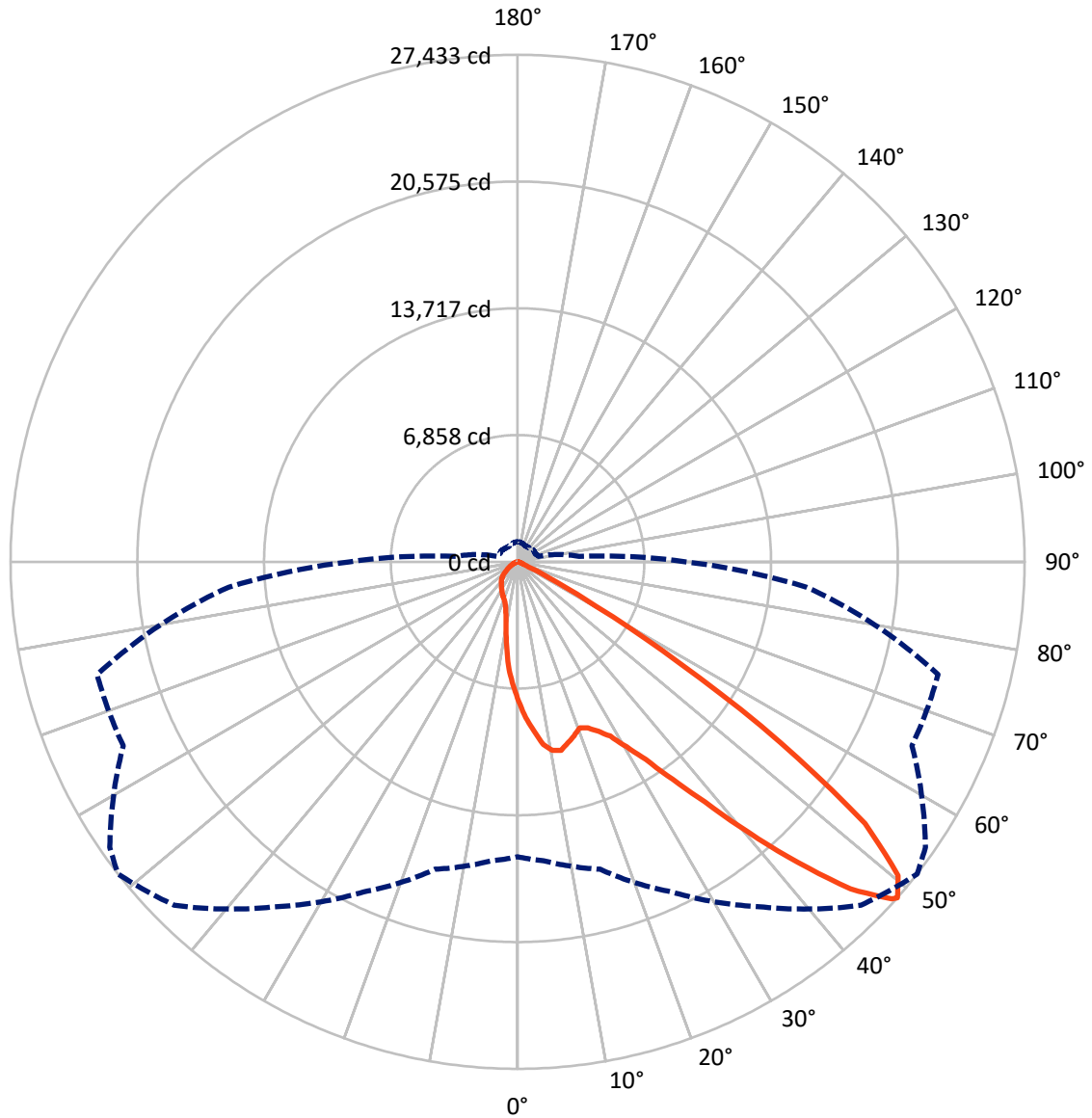
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3184.6 | 0.0 | 3184.6 |
| | % Fixture | 12.2 | 0.0 | 12.2 |
| Street Side | Lumens | 22970.5 | 0.0 | 22970.5 |
| | % Fixture | 87.8 | 0.0 | 87.8 |
| Total | Lumens | 26155.1 | 0.0 | 26155.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 691.3 | 2.6 |
| 10°-20° | 1806.7 | 6.9 |
| 20°-30° | 3084.8 | 11.8 |
| 30°-40° | 5680.6 | 21.7 |
| 40°-50° | 8822.0 | 33.7 |
| 50°-60° | 5309.3 | 20.3 |
| 60°-70° | 614.1 | 2.3 |
| 70°-80° | 118.9 | 0.5 |
| 80°-90° | 27.5 | 0.1 |
| 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° | 26155.1 | 100.0 |
| 0°-180° | 26155.1 | 100.0 |

Coefficient of Utilization

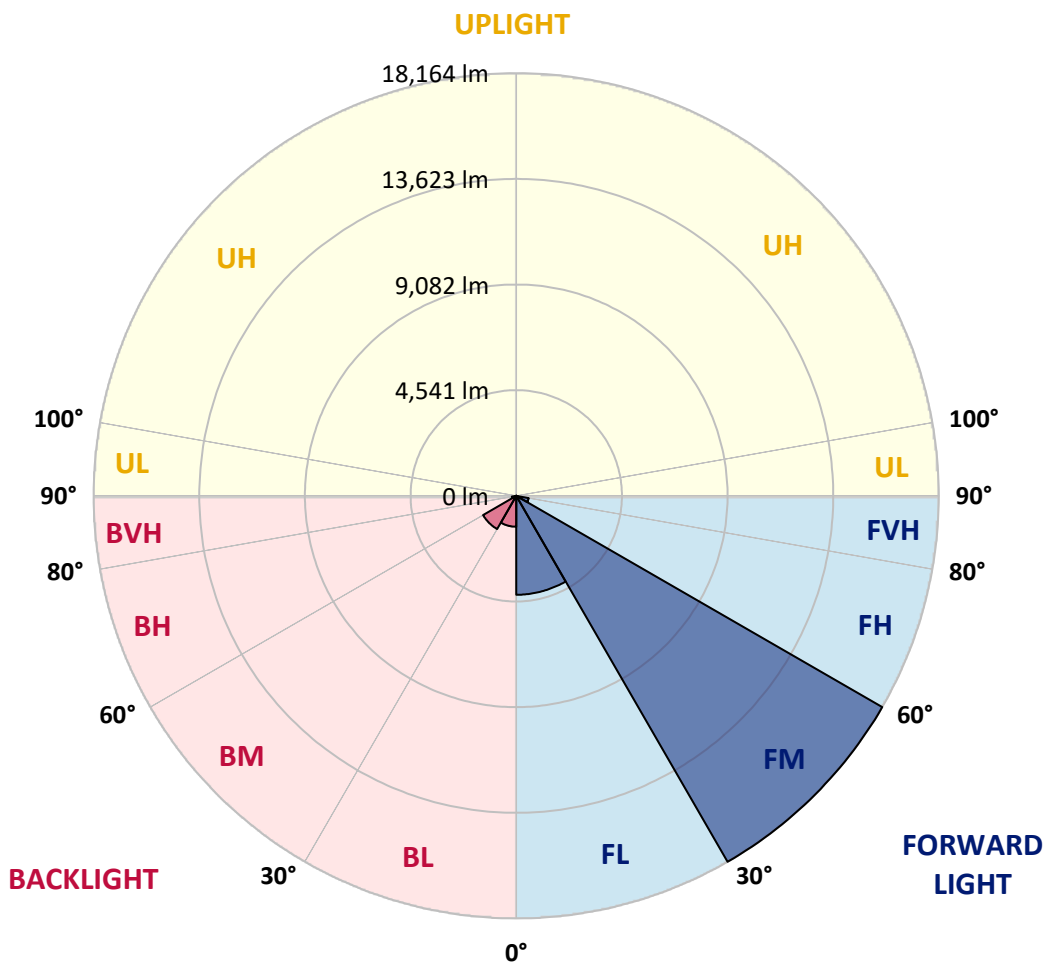


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 4252.5 | 16.3 | | | |
| FM (30°-60°) | 18164.2 | 69.4 | | | |
| FH (60°-80°) | 540.7 | 2.1 | | | G0/660 |
| FVH (80°-90°) | 13.1 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1330.3 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 1647.7 | 6.3 | B2/2500 | | |
| BH (60°-80°) | 192.2 | 0.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 14.4 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7553.2 | 7553.2 | 7553.2 | 7553.2 | 7553.2 | 7553.2 | 7553.2 | 7553.2 | 7553.2 | 7553.2 | 7553.2 |
| 2.5° | 9154.5 | 8944.8 | 8963.9 | 8826.6 | 8746.6 | 8617.0 | 8441.5 | 8407.2 | 8216.6 | 7957.3 | 7694.2 |
| 5° | 9978.1 | 9928.5 | 9993.4 | 9795.1 | 9802.7 | 9589.2 | 9177.4 | 9185.1 | 8746.6 | 8323.4 | 7915.4 |
| 7.5° | 10031.4 | 9917.1 | 9981.9 | 10157.3 | 10260.3 | 10222.1 | 9989.6 | 9787.5 | 9371.9 | 8750.4 | 8155.6 |
| 10° | 8983.0 | 9200.3 | 9268.9 | 9558.7 | 9970.5 | 10405.1 | 10378.4 | 10389.9 | 10042.9 | 9230.8 | 8361.5 |
| 12.5° | 8353.8 | 8209.0 | 8441.5 | 8617.0 | 9238.4 | 10081.1 | 10466.2 | 10550.0 | 10576.7 | 9696.0 | 8567.4 |
| 15° | 8067.9 | 8067.9 | 8106.0 | 8155.6 | 8605.5 | 9383.3 | 10168.7 | 10412.8 | 10988.5 | 10306.0 | 8891.5 |
| 17.5° | 8247.1 | 8239.4 | 8292.8 | 8189.9 | 8357.7 | 8956.2 | 9894.2 | 10172.6 | 11449.9 | 10904.6 | 9146.9 |
| 20° | 8792.3 | 8819.0 | 8784.7 | 8487.3 | 8498.7 | 8948.7 | 9589.2 | 10027.7 | 11762.5 | 11423.1 | 9486.2 |
| 22.5° | 9551.1 | 9566.3 | 9371.9 | 9047.8 | 8952.4 | 9173.6 | 9764.6 | 10100.1 | 12014.1 | 12044.6 | 9589.2 |
| 25° | 10428.0 | 10367.0 | 10328.9 | 9871.3 | 9581.6 | 9772.2 | 10161.1 | 10355.6 | 12170.4 | 12578.4 | 9882.8 |
| 27.5° | 11644.3 | 11522.3 | 11289.7 | 10881.7 | 10668.3 | 10397.5 | 10675.8 | 10996.2 | 12616.6 | 13325.7 | 10203.1 |
| 30° | 13440.1 | 13333.4 | 12879.7 | 12353.4 | 11793.0 | 11526.1 | 11613.8 | 11789.2 | 13421.1 | 14191.3 | 10626.3 |
| 32.5° | 16143.4 | 15918.4 | 15262.6 | 14259.9 | 13497.3 | 12761.4 | 12738.5 | 12925.4 | 14141.7 | 15388.4 | 11129.5 |
| 35° | 19121.2 | 19052.6 | 18087.9 | 17054.6 | 15579.1 | 14442.9 | 14461.9 | 14561.1 | 15521.9 | 16959.4 | 11789.2 |
| 37.5° | 21100.0 | 21477.5 | 20863.6 | 19754.1 | 18515.0 | 16890.7 | 16478.9 | 16513.2 | 17416.9 | 18820.0 | 12978.7 |
| 40° | 22629.0 | 22308.7 | 22381.1 | 22121.8 | 21275.4 | 20169.7 | 19258.5 | 19079.3 | 19609.3 | 20878.9 | 14160.8 |
| 42.5° | 21961.7 | 21977.0 | 22423.1 | 23036.9 | 23246.7 | 23166.6 | 22236.3 | 21896.9 | 21485.1 | 22564.1 | 15285.5 |
| 45° | 20078.2 | 20470.9 | 21050.5 | 22674.7 | 24100.7 | 25439.0 | 25256.0 | 24691.7 | 22781.5 | 23898.6 | 15933.7 |
| 47.5° | 17073.7 | 17058.5 | 18007.8 | 20120.2 | 23288.6 | 26422.7 | 27253.9 | 26857.3 | 23700.4 | 23749.9 | 15800.3 |
| 48° | 15964.2 | 16238.7 | 17218.6 | 19704.5 | 22773.9 | 26277.8 | 27433.1 | 26933.6 | 23544.0 | 23551.7 | 15685.8 |
| 50° | 11800.7 | 11751.0 | 12971.2 | 16021.4 | 20341.3 | 24691.7 | 26678.2 | 27067.1 | 23540.3 | 22548.9 | 14885.2 |
| 52.5° | 6233.9 | 6447.4 | 7335.8 | 10073.4 | 14381.9 | 20207.9 | 23532.6 | 24138.8 | 22709.0 | 20909.4 | 13733.7 |
| 55° | 2649.9 | 2394.4 | 3077.0 | 4548.6 | 8090.8 | 13501.2 | 17264.4 | 18614.1 | 19201.3 | 18503.5 | 12014.1 |
| 57.5° | 945.5 | 1033.3 | 1189.6 | 1711.9 | 3401.0 | 7389.2 | 10294.6 | 11343.1 | 13302.9 | 13577.4 | 8186.0 |
| 60° | 606.3 | 617.7 | 667.2 | 785.4 | 1277.3 | 2848.1 | 4884.2 | 5719.2 | 6607.6 | 6821.1 | 3820.4 |
| 62.5° | 468.9 | 472.8 | 495.7 | 514.7 | 606.3 | 1105.7 | 1834.0 | 2173.3 | 2257.2 | 1940.7 | 1002.8 |
| 65° | 392.7 | 396.5 | 404.2 | 404.2 | 430.8 | 518.6 | 640.6 | 705.3 | 686.3 | 678.7 | 568.1 |
| 67.5° | 301.2 | 308.8 | 324.1 | 324.1 | 339.3 | 316.5 | 354.6 | 377.4 | 427.1 | 518.6 | 484.2 |
| 70° | 236.4 | 240.2 | 251.6 | 259.3 | 259.3 | 228.8 | 255.5 | 278.4 | 312.7 | 385.1 | 381.3 |
| 72.5° | 183.0 | 190.7 | 198.2 | 198.2 | 186.8 | 156.3 | 183.0 | 202.1 | 225.0 | 266.9 | 259.3 |
| 75° | 141.0 | 141.0 | 144.9 | 118.2 | 91.5 | 80.1 | 110.6 | 133.5 | 167.8 | 175.3 | 144.9 |
| 77.5° | 38.1 | 42.0 | 38.1 | 34.3 | 38.1 | 57.2 | 72.4 | 83.8 | 106.7 | 106.7 | 95.3 |
| 80° | 0.0 | 3.8 | 11.4 | 22.9 | 38.1 | 53.4 | 64.8 | 72.4 | 83.8 | 91.5 | 87.7 |
| 82.5° | 0.0 | 3.8 | 11.4 | 22.9 | 34.3 | 42.0 | 57.2 | 61.0 | 68.6 | 80.1 | 80.1 |
| 85° | 0.0 | 3.8 | 7.7 | 15.2 | 22.9 | 26.7 | 26.7 | 22.9 | 22.9 | 19.1 | 15.2 |
| 87.5° | 0.0 | 0.0 | 3.8 | 7.7 | 7.7 | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 |
| 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° | 7553.2 | 7553.2 | 7553.2 | 7553.2 | 7553.2 | 7553.2 | 7553.2 | 7553.2 | 7553.2 | 7553.2 | 7553.2 |
| 2.5° | 7591.3 | 7473.1 | 7293.9 | 7011.8 | 6741.0 | 6565.6 | 6397.9 | 6211.0 | 6108.1 | 6100.4 | 6043.3 |
| 5° | 7682.8 | 7415.9 | 6988.9 | 6504.6 | 5986.1 | 5540.0 | 5090.1 | 4796.5 | 4533.4 | 4388.5 | 4361.8 |
| 7.5° | 7732.3 | 7385.4 | 6695.3 | 5883.1 | 4998.6 | 4270.3 | 3767.0 | 3397.2 | 3252.3 | 3145.6 | 3141.7 |
| 10° | 7835.3 | 7332.0 | 6256.8 | 5059.6 | 3965.3 | 3229.4 | 2882.4 | 2714.7 | 2634.7 | 2604.2 | 2558.4 |
| 12.5° | 7911.5 | 7232.9 | 5806.9 | 4213.2 | 3134.2 | 2676.6 | 2524.1 | 2485.9 | 2489.8 | 2505.0 | 2485.9 |
| 15° | 8018.3 | 7145.2 | 5200.7 | 3458.2 | 2630.8 | 2409.7 | 2409.7 | 2417.3 | 2470.7 | 2478.3 | 2474.5 |
| 17.5° | 8010.7 | 6973.6 | 4575.4 | 2848.1 | 2325.8 | 2295.3 | 2306.8 | 2379.2 | 2413.5 | 2424.9 | 2398.3 |
| 20° | 8102.2 | 6813.4 | 3931.0 | 2432.6 | 2154.2 | 2200.0 | 2276.3 | 2295.3 | 2337.2 | 2344.9 | 2314.3 |
| 22.5° | 8075.5 | 6413.1 | 3332.4 | 2104.7 | 2024.6 | 2112.3 | 2188.5 | 2211.4 | 2200.0 | 2177.1 | 2173.3 |
| 25° | 8025.9 | 6070.0 | 2783.4 | 1887.4 | 1929.3 | 2024.6 | 2097.0 | 2055.1 | 2032.2 | 2036.1 | 2039.8 |
| 27.5° | 7938.3 | 5635.3 | 2329.7 | 1734.8 | 1799.7 | 1940.7 | 1936.9 | 1921.7 | 1944.6 | 1925.5 | 1944.6 |
| 30° | 7923.0 | 5200.7 | 1956.0 | 1597.6 | 1704.3 | 1807.3 | 1814.9 | 1841.6 | 1868.3 | 1834.0 | 1868.3 |
| 32.5° | 7945.9 | 4724.1 | 1689.1 | 1513.7 | 1647.1 | 1651.0 | 1734.8 | 1761.5 | 1742.5 | 1666.2 | 1673.8 |
| 35° | 8121.3 | 4358.1 | 1494.6 | 1468.0 | 1555.6 | 1559.5 | 1639.5 | 1605.2 | 1521.3 | 1475.5 | 1502.3 |
| 37.5° | 8491.1 | 4053.0 | 1403.1 | 1426.0 | 1433.7 | 1483.2 | 1487.0 | 1418.3 | 1426.0 | 1422.2 | 1437.4 |
| 40° | 8963.9 | 3820.4 | 1338.3 | 1387.8 | 1380.2 | 1414.6 | 1277.3 | 1315.4 | 1349.7 | 1361.2 | 1368.8 |
| 42.5° | 9288.0 | 3652.6 | 1296.3 | 1326.8 | 1311.6 | 1250.6 | 1174.4 | 1212.5 | 1239.1 | 1281.1 | 1288.7 |
| 45° | 9432.9 | 3519.2 | 1246.8 | 1220.1 | 1220.1 | 1109.5 | 1079.0 | 1086.7 | 1147.6 | 1193.4 | 1185.8 |
| 47.5° | 9196.5 | 3389.6 | 1159.1 | 1079.0 | 1105.7 | 1014.2 | 979.8 | 979.8 | 1044.7 | 1101.9 | 1090.4 |
| 48° | 9105.0 | 3336.2 | 1162.9 | 1048.6 | 1067.6 | 998.9 | 964.6 | 957.0 | 1029.5 | 1082.9 | 1082.9 |
| 50° | 8651.3 | 3137.9 | 1063.8 | 964.6 | 926.5 | 918.9 | 896.0 | 903.7 | 949.4 | 998.9 | 998.9 |
| 52.5° | 7766.6 | 2710.9 | 899.8 | 827.4 | 758.8 | 804.5 | 815.9 | 800.7 | 823.6 | 869.3 | 865.5 |
| 55° | 6481.8 | 2081.8 | 720.7 | 686.3 | 632.9 | 682.5 | 705.3 | 686.3 | 663.5 | 697.8 | 697.8 |
| 57.5° | 4152.1 | 1121.0 | 575.7 | 583.3 | 530.0 | 579.5 | 598.6 | 552.9 | 510.9 | 537.6 | 533.8 |
| 60° | 1872.1 | 671.0 | 472.8 | 461.4 | 427.1 | 484.2 | 514.7 | 461.4 | 404.2 | 423.2 | 442.3 |
| 62.5° | 701.6 | 476.6 | 358.4 | 350.8 | 343.1 | 396.5 | 411.8 | 369.9 | 312.7 | 324.1 | 327.9 |
| 65° | 514.7 | 419.4 | 285.9 | 259.3 | 274.5 | 312.7 | 305.0 | 263.1 | 225.0 | 225.0 | 232.6 |
| 67.5° | 438.5 | 366.0 | 232.6 | 202.1 | 202.1 | 205.9 | 190.7 | 167.8 | 156.3 | 163.9 | 171.6 |
| 70° | 343.1 | 289.8 | 183.0 | 156.3 | 141.0 | 125.8 | 110.6 | 106.7 | 95.3 | 106.7 | 102.9 |
| 72.5° | 221.2 | 194.4 | 141.0 | 118.2 | 106.7 | 87.7 | 72.4 | 68.6 | 57.2 | 53.4 | 53.4 |
| 75° | 118.2 | 118.2 | 110.6 | 95.3 | 83.8 | 68.6 | 57.2 | 45.8 | 30.5 | 22.9 | 22.9 |
| 77.5° | 83.8 | 91.5 | 99.2 | 91.5 | 76.3 | 57.2 | 45.8 | 30.5 | 15.2 | 7.7 | 7.7 |
| 80° | 80.1 | 91.5 | 99.2 | 87.7 | 76.3 | 57.2 | 42.0 | 22.9 | 11.4 | 3.8 | 3.8 |
| 82.5° | 72.4 | 83.8 | 91.5 | 80.1 | 68.6 | 49.5 | 38.1 | 22.9 | 11.4 | 3.8 | 3.8 |
| 85° | 15.2 | 19.1 | 22.9 | 22.9 | 26.7 | 34.3 | 26.7 | 19.1 | 7.7 | 3.8 | 3.8 |
| 87.5° | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 | 7.7 | 7.7 | 3.8 | 3.8 | 3.8 |
| 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)