

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: P636797

Luminaire Tested: **IFLD-S-SA2C-940-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636797
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-940-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7900 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

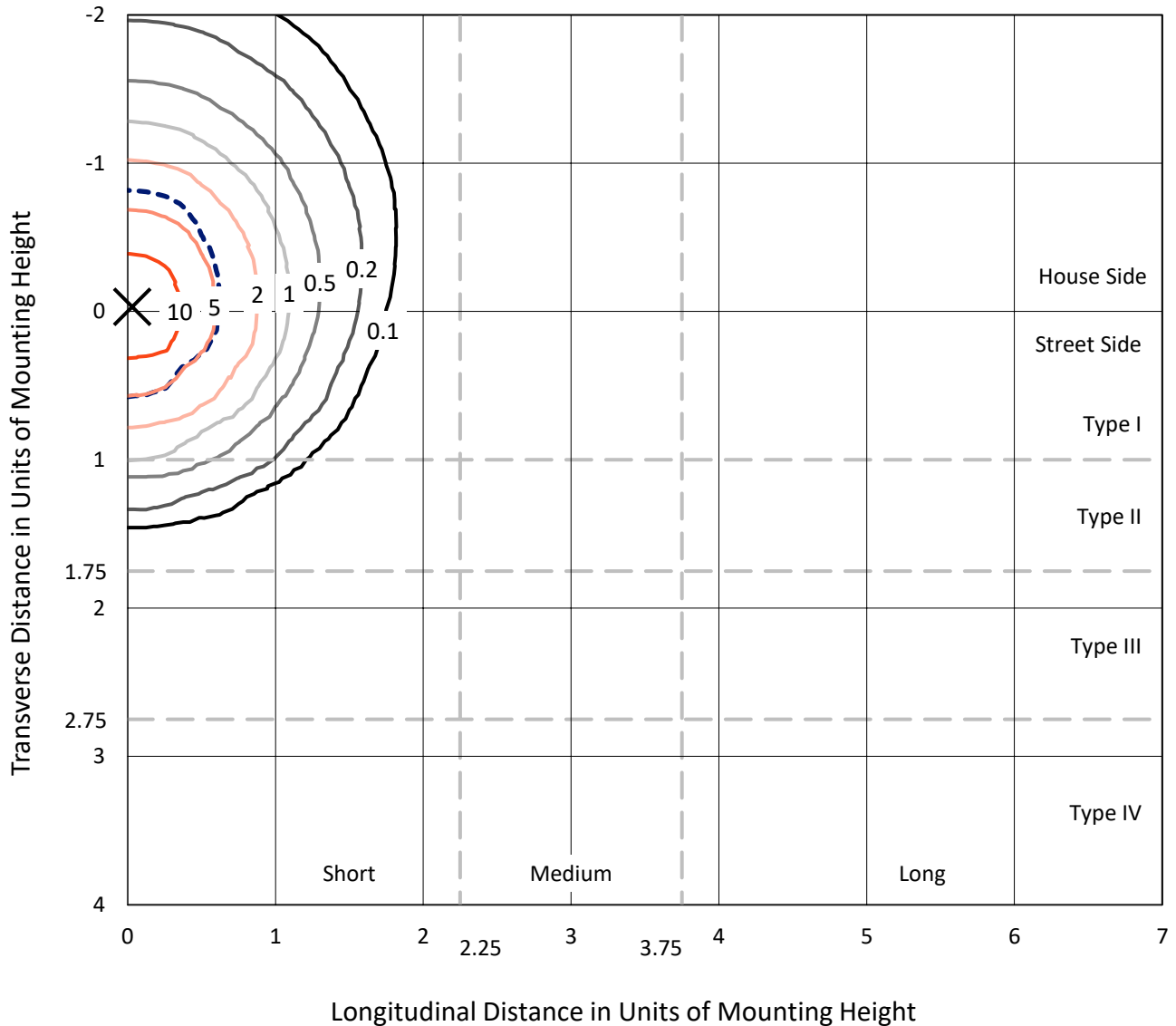
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

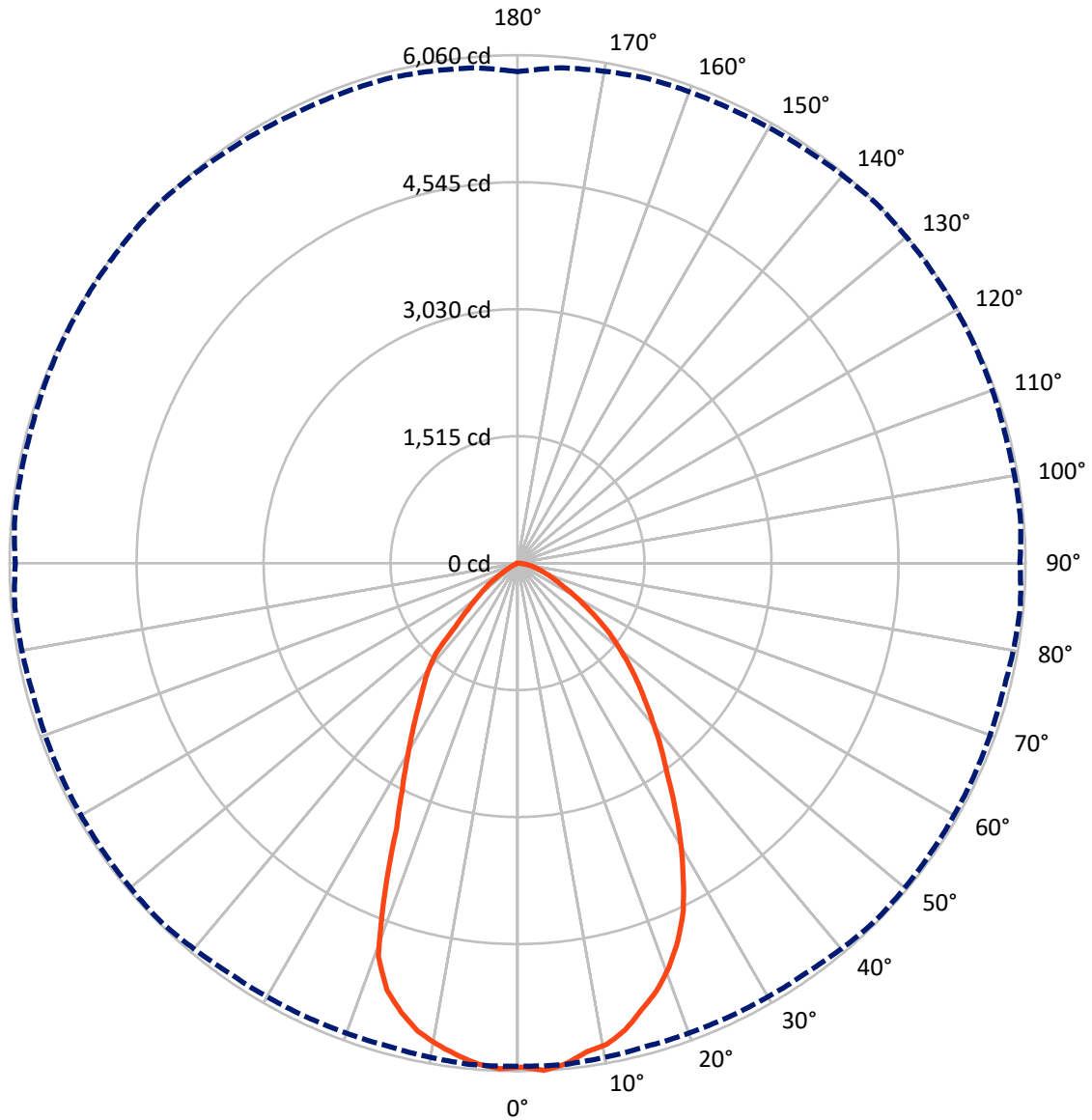
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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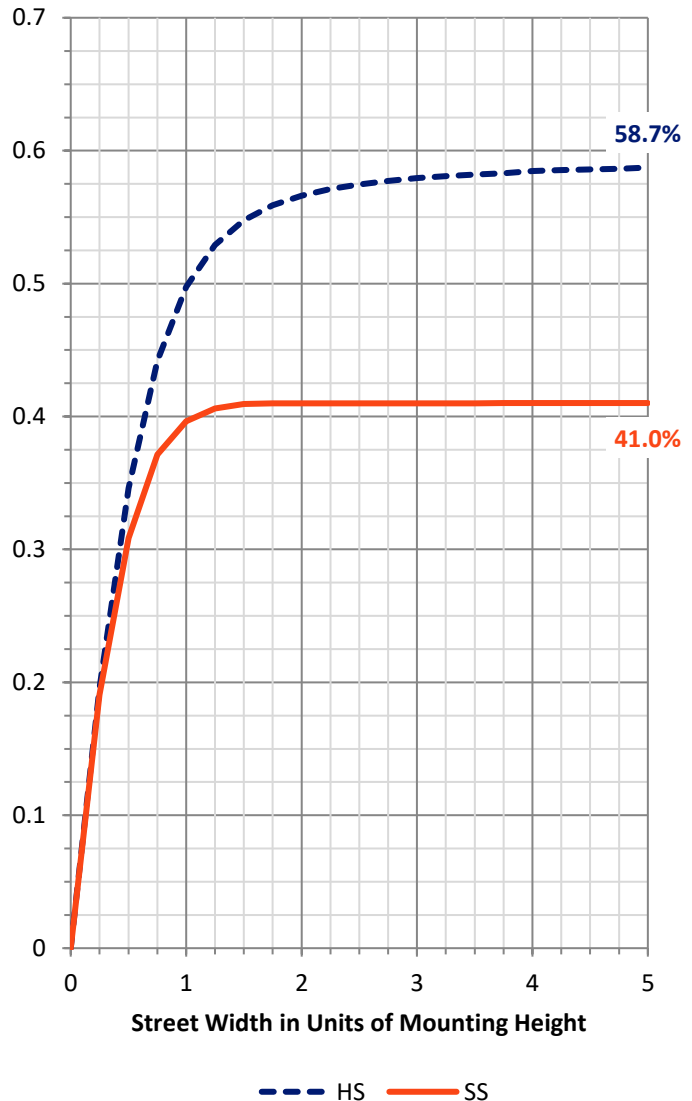
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4678.8 | 0.0 | 4678.8 |
| | % Fixture | 59.2 | 0.0 | 59.2 |
| Street Side | Lumens | 3221.2 | 0.0 | 3221.2 |
| | % Fixture | 40.8 | 0.0 | 40.8 |
| Total | Lumens | 7900.0 | 0.0 | 7900.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 563.8 | 7.1 |
| 10°-20° | 1511.9 | 19.1 |
| 20°-30° | 1843.9 | 23.3 |
| 30°-40° | 1683.4 | 21.3 |
| 40°-50° | 1216.6 | 15.4 |
| 50°-60° | 664.3 | 8.4 |
| 60°-70° | 274.6 | 3.5 |
| 70°-80° | 111.2 | 1.4 |
| 80°-90° | 30.2 | 0.4 |
| 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° | 7900.0 | 100.0 |
| 0°-180° | 7900.0 | 100.0 |



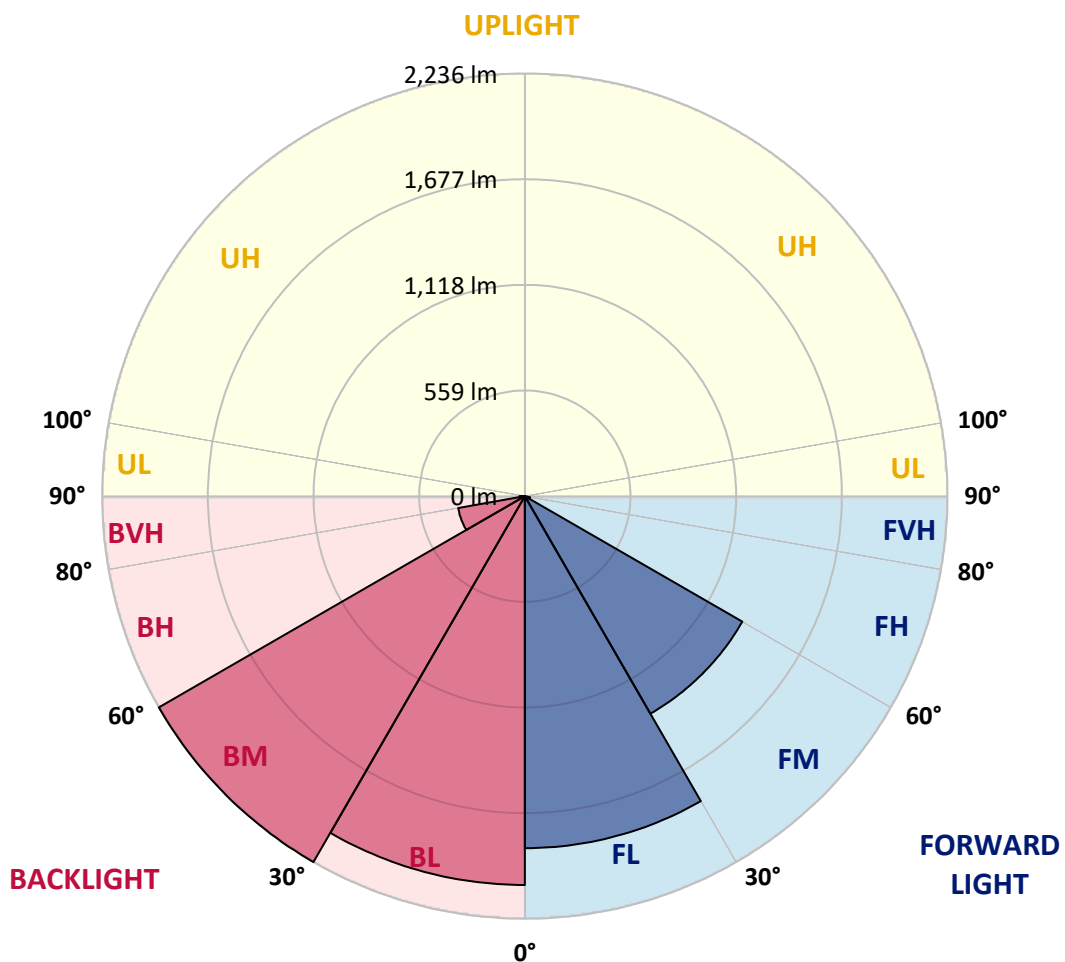
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1862.3 | 23.6 | | | |
| FM (30°-60°) | 1328.6 | 16.8 | | | |
| FH (60°-80°) | 27.8 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 2.4 | 0.0 | | | G0/10 |
| BL (0°-30°) | 2057.3 | 26.0 | B3/2500 | | |
| BM (30°-60°) | 2235.6 | 28.3 | B2/2500 | | |
| BH (60°-80°) | 358.0 | 4.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 27.8 | 0.4 | | | 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 I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6011.9 | 6011.9 | 6011.9 | 6011.9 | 6011.9 | 6011.9 | 6011.9 | 6011.9 | 6011.9 | 6011.9 |
| 2.5° | 6000.7 | 6008.5 | 5966.3 | 5970.7 | 5978.5 | 6035.2 | 6020.8 | 6007.4 | 5988.5 | 6020.8 |
| 5° | 5993.0 | 5997.4 | 5952.9 | 5937.3 | 5944.0 | 5995.2 | 5948.5 | 5948.5 | 5944.0 | 5938.4 |
| 7.5° | 5932.9 | 5935.1 | 5900.6 | 5872.8 | 5890.6 | 5914.0 | 5879.5 | 5896.2 | 5871.7 | 5890.6 |
| 10° | 5842.8 | 5828.3 | 5787.1 | 5779.4 | 5799.4 | 5821.6 | 5798.3 | 5813.8 | 5791.6 | 5806.1 |
| 12.5° | 5710.4 | 5688.1 | 5654.8 | 5644.7 | 5679.2 | 5709.3 | 5690.4 | 5681.5 | 5652.5 | 5688.1 |
| 15° | 5199.8 | 5183.1 | 5258.7 | 5391.1 | 5510.1 | 5535.7 | 5515.7 | 5524.6 | 5464.5 | 5474.5 |
| 17.5° | 4279.7 | 4248.6 | 4329.8 | 4643.5 | 5090.7 | 5326.6 | 5308.8 | 5250.9 | 5161.9 | 5182.0 |
| 20° | 3889.2 | 3880.3 | 3871.4 | 3946.0 | 4258.6 | 4973.9 | 4998.4 | 4851.5 | 4724.7 | 4696.9 |
| 22.5° | 3669.0 | 3665.6 | 3656.7 | 3673.4 | 3755.7 | 4215.2 | 4495.5 | 4359.8 | 4275.3 | 4267.5 |
| 25° | 3467.6 | 3462.1 | 3435.4 | 3456.5 | 3456.5 | 3483.2 | 3842.5 | 3924.8 | 3850.3 | 3841.4 |
| 27.5° | 3262.9 | 3252.9 | 3248.5 | 3258.5 | 3207.3 | 3027.1 | 3118.3 | 3519.9 | 3481.0 | 3483.2 |
| 30° | 3041.5 | 3038.2 | 3026.0 | 3047.1 | 2889.1 | 2665.5 | 2607.7 | 3152.8 | 3160.6 | 3158.3 |
| 32.5° | 2712.2 | 2726.7 | 2782.3 | 2805.7 | 2545.4 | 2360.7 | 2263.9 | 2727.8 | 2886.9 | 2883.6 |
| 35° | 1970.2 | 1970.2 | 2151.5 | 2488.6 | 2230.5 | 2091.5 | 2039.2 | 2312.9 | 2616.6 | 2627.7 |
| 37.5° | 1619.8 | 1625.3 | 1660.9 | 1814.5 | 1924.6 | 1875.6 | 1860.1 | 1946.8 | 2269.5 | 2287.3 |
| 40° | 1457.4 | 1457.4 | 1457.4 | 1393.9 | 1390.6 | 1689.9 | 1681.0 | 1653.2 | 1960.2 | 1999.1 |
| 42.5° | 1309.4 | 1312.7 | 1315.0 | 1154.8 | 1065.8 | 1460.7 | 1440.7 | 1398.4 | 1683.2 | 1728.8 |
| 45° | 1157.0 | 1162.5 | 1169.2 | 965.6 | 926.7 | 1051.3 | 1219.3 | 1172.6 | 1409.5 | 1468.5 |
| 47.5° | 706.4 | 715.3 | 866.6 | 818.8 | 823.2 | 811.0 | 994.6 | 986.8 | 1155.9 | 1239.3 |
| 50° | 477.3 | 480.6 | 495.1 | 519.5 | 706.4 | 637.5 | 704.2 | 816.6 | 877.8 | 1004.6 |
| 52.5° | 400.5 | 406.1 | 370.5 | 337.1 | 463.9 | 498.4 | 491.7 | 606.3 | 630.8 | 787.6 |
| 55° | 281.5 | 299.3 | 282.6 | 279.2 | 263.7 | 387.1 | 372.7 | 466.1 | 481.7 | 598.5 |
| 57.5° | 28.9 | 33.4 | 57.8 | 208.0 | 172.4 | 219.2 | 265.9 | 341.5 | 357.1 | 441.7 |
| 60° | 2.2 | 2.2 | 5.6 | 28.9 | 125.7 | 131.3 | 183.6 | 210.3 | 240.3 | 308.2 |
| 62.5° | 0.0 | 1.1 | 2.2 | 4.4 | 20.0 | 70.1 | 92.3 | 110.1 | 144.6 | 199.1 |
| 65° | 0.0 | 0.0 | 1.1 | 3.3 | 4.4 | 26.7 | 35.6 | 57.8 | 79.0 | 123.5 |
| 67.5° | 0.0 | 0.0 | 1.1 | 2.2 | 3.3 | 6.7 | 12.2 | 21.1 | 42.3 | 70.1 |
| 70° | 0.0 | 0.0 | 1.1 | 2.2 | 3.3 | 5.6 | 8.9 | 13.3 | 18.9 | 37.8 |
| 72.5° | 0.0 | 0.0 | 1.1 | 1.1 | 2.2 | 5.6 | 6.7 | 8.9 | 13.3 | 18.9 |
| 75° | 0.0 | 0.0 | 1.1 | 1.1 | 3.3 | 6.7 | 5.6 | 6.7 | 8.9 | 12.2 |
| 77.5° | 0.0 | 0.0 | 1.1 | 2.2 | 3.3 | 6.7 | 5.6 | 6.7 | 6.7 | 7.8 |
| 80° | 0.0 | 0.0 | 1.1 | 2.2 | 4.4 | 7.8 | 6.7 | 6.7 | 5.6 | 5.6 |
| 82.5° | 0.0 | 0.0 | 1.1 | 3.3 | 4.4 | 10.0 | 10.0 | 8.9 | 4.4 | 3.3 |
| 85° | 0.0 | 0.0 | 2.2 | 4.4 | 6.7 | 11.1 | 11.1 | 8.9 | 3.3 | 2.2 |
| 87.5° | 0.0 | 0.0 | 2.2 | 3.3 | 5.6 | 7.8 | 11.1 | 8.9 | 3.3 | 1.1 |
| 90° | 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6011.9 | 0° | 6011.9 | 6011.9 | 6011.9 | 6011.9 | 6011.9 | 6011.9 | 6011.9 | 6011.9 | 6011.9 |
| 5993.0 | 2.5° | 6023.0 | 6016.3 | 6038.6 | 6047.5 | 6059.7 | 6013.0 | 5984.1 | 5985.2 | 5931.8 |
| 5925.1 | 5° | 5960.7 | 5961.8 | 5990.7 | 5988.5 | 6000.7 | 5975.2 | 5964.0 | 5945.1 | 5898.4 |
| 5839.4 | 7.5° | 5881.7 | 5871.7 | 5899.5 | 5920.6 | 5889.5 | 5907.3 | 5881.7 | 5890.6 | 5862.8 |
| 5763.8 | 10° | 5820.5 | 5797.2 | 5822.7 | 5837.2 | 5838.3 | 5820.5 | 5796.0 | 5772.7 | 5762.7 |
| 5645.9 | 12.5° | 5684.8 | 5654.8 | 5698.1 | 5718.2 | 5714.8 | 5680.3 | 5652.5 | 5658.1 | 5625.8 |
| 5438.9 | 15° | 5497.9 | 5499.0 | 5530.2 | 5549.1 | 5531.3 | 5523.5 | 5525.7 | 5512.4 | 5484.5 |
| 5153.0 | 17.5° | 5212.0 | 5228.7 | 5311.0 | 5356.6 | 5366.6 | 5351.0 | 5343.3 | 5327.7 | 5299.9 |
| 4696.9 | 20° | 4735.8 | 4836.0 | 4982.8 | 5124.1 | 5151.9 | 5147.5 | 5119.7 | 5113.0 | 5097.4 |
| 4245.2 | 22.5° | 4317.6 | 4392.1 | 4562.3 | 4782.6 | 4896.0 | 4907.2 | 4873.8 | 4863.8 | 4847.1 |
| 3841.4 | 25° | 3884.8 | 3964.9 | 4118.4 | 4357.6 | 4592.3 | 4640.2 | 4634.6 | 4604.6 | 4586.8 |
| 3483.2 | 27.5° | 3519.9 | 3600.0 | 3739.1 | 3954.9 | 4206.3 | 4359.8 | 4374.3 | 4326.5 | 4325.3 |
| 3163.9 | 30° | 3190.6 | 3300.7 | 3406.4 | 3582.2 | 3825.8 | 4056.1 | 4080.6 | 4047.2 | 4050.6 |
| 2871.3 | 32.5° | 2932.5 | 3023.7 | 3113.8 | 3231.8 | 3434.2 | 3702.3 | 3798.0 | 3766.9 | 3754.6 |
| 2627.7 | 35° | 2668.8 | 2731.1 | 2823.5 | 2931.4 | 3069.3 | 3335.2 | 3501.0 | 3477.6 | 3465.4 |
| 2298.4 | 37.5° | 2368.5 | 2475.3 | 2542.0 | 2663.3 | 2771.2 | 2982.6 | 3216.2 | 3212.9 | 3187.3 |
| 2018.0 | 40° | 2060.3 | 2172.7 | 2273.9 | 2396.3 | 2479.7 | 2647.7 | 2906.9 | 2905.8 | 2909.1 |
| 1727.7 | 42.5° | 1781.1 | 1884.5 | 2006.9 | 2140.4 | 2220.5 | 2342.9 | 2621.0 | 2636.6 | 2655.5 |
| 1488.5 | 45° | 1528.6 | 1622.0 | 1735.5 | 1897.9 | 1994.7 | 2064.8 | 2311.7 | 2382.9 | 2381.8 |
| 1274.9 | 47.5° | 1301.6 | 1389.5 | 1485.2 | 1643.1 | 1766.6 | 1830.0 | 2034.7 | 2136.0 | 2129.3 |
| 1045.7 | 50° | 1092.5 | 1170.3 | 1270.5 | 1385.0 | 1550.8 | 1606.4 | 1758.8 | 1892.3 | 1882.3 |
| 833.3 | 52.5° | 878.9 | 986.8 | 1071.3 | 1175.9 | 1350.6 | 1405.1 | 1523.0 | 1653.2 | 1645.4 |
| 625.2 | 55° | 685.3 | 789.9 | 892.2 | 982.3 | 1129.2 | 1210.4 | 1294.9 | 1428.4 | 1426.2 |
| 489.5 | 57.5° | 518.4 | 633.0 | 729.8 | 815.5 | 932.3 | 1032.4 | 1100.2 | 1221.5 | 1237.1 |
| 334.9 | 60° | 383.8 | 471.7 | 576.3 | 671.9 | 764.3 | 867.7 | 913.3 | 1032.4 | 1039.1 |
| 229.2 | 62.5° | 261.4 | 358.2 | 460.6 | 547.3 | 616.3 | 723.1 | 764.3 | 862.2 | 874.4 |
| 146.8 | 65° | 181.3 | 243.6 | 360.4 | 422.7 | 507.3 | 598.5 | 639.7 | 717.6 | 742.0 |
| 84.5 | 67.5° | 120.1 | 173.5 | 281.5 | 338.2 | 421.6 | 483.9 | 536.2 | 599.6 | 626.3 |
| 53.4 | 70° | 65.6 | 127.9 | 201.4 | 267.0 | 339.3 | 399.4 | 450.6 | 501.7 | 525.1 |
| 24.5 | 72.5° | 44.5 | 85.7 | 140.2 | 211.4 | 273.7 | 332.6 | 378.2 | 416.1 | 417.2 |
| 14.5 | 75° | 22.2 | 57.8 | 106.8 | 163.5 | 213.6 | 271.4 | 312.6 | 334.9 | 308.2 |
| 8.9 | 77.5° | 13.3 | 42.3 | 86.8 | 131.3 | 173.5 | 219.2 | 242.5 | 254.8 | 211.4 |
| 6.7 | 80° | 7.8 | 30.0 | 67.9 | 104.6 | 120.1 | 161.3 | 183.6 | 186.9 | 141.3 |
| 4.4 | 82.5° | 5.6 | 22.2 | 53.4 | 76.8 | 73.4 | 113.5 | 137.9 | 133.5 | 90.1 |
| 3.3 | 85° | 3.3 | 15.6 | 33.4 | 47.8 | 44.5 | 74.5 | 80.1 | 82.3 | 52.3 |
| 2.2 | 87.5° | 2.2 | 8.9 | 17.8 | 25.6 | 21.1 | 32.3 | 32.3 | 38.9 | 25.6 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



| 180° |
|--------|
| 6011.9 |
| 5862.8 |
| 5887.3 |
| 5816.1 |
| 5718.2 |
| 5598.0 |
| 5456.7 |
| 5287.6 |
| 5061.8 |
| 4842.6 |
| 4567.9 |
| 4323.1 |
| 4033.9 |
| 3755.7 |
| 3448.7 |
| 3208.4 |
| 2909.1 |
| 2645.5 |
| 2384.1 |
| 2131.5 |
| 1891.2 |
| 1662.1 |
| 1431.8 |
| 1230.4 |
| 1049.1 |
| 876.6 |
| 736.5 |
| 623.0 |
| 516.2 |
| 407.2 |
| 288.1 |
| 203.6 |
| 132.4 |
| 83.4 |
| 47.8 |
| 22.2 |
| 0.0 |

(END OF REPORT)