

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: P636630

Luminaire Tested: **IFLD-S-SA3E-935-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636630
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-935-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14260.4 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

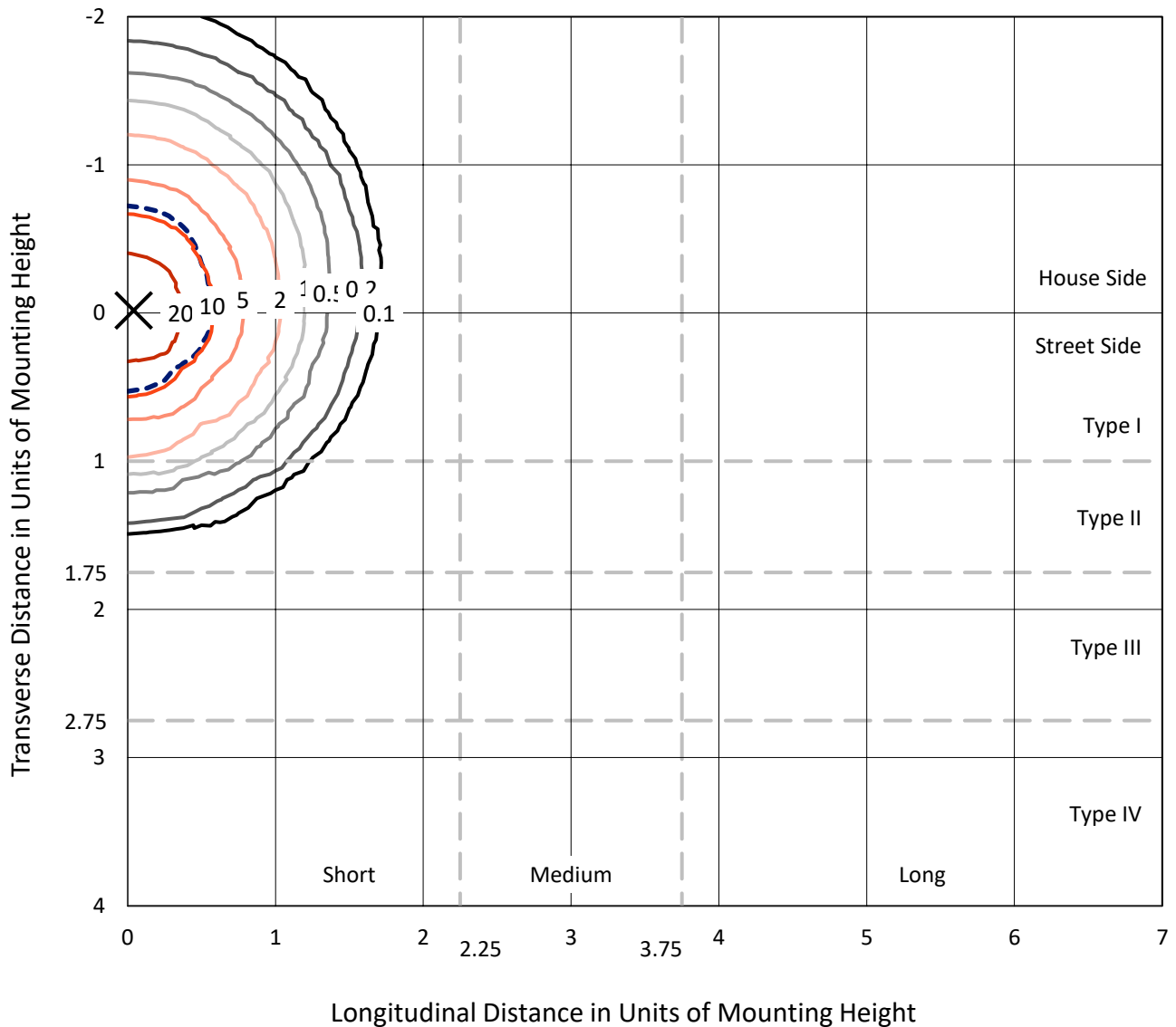
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

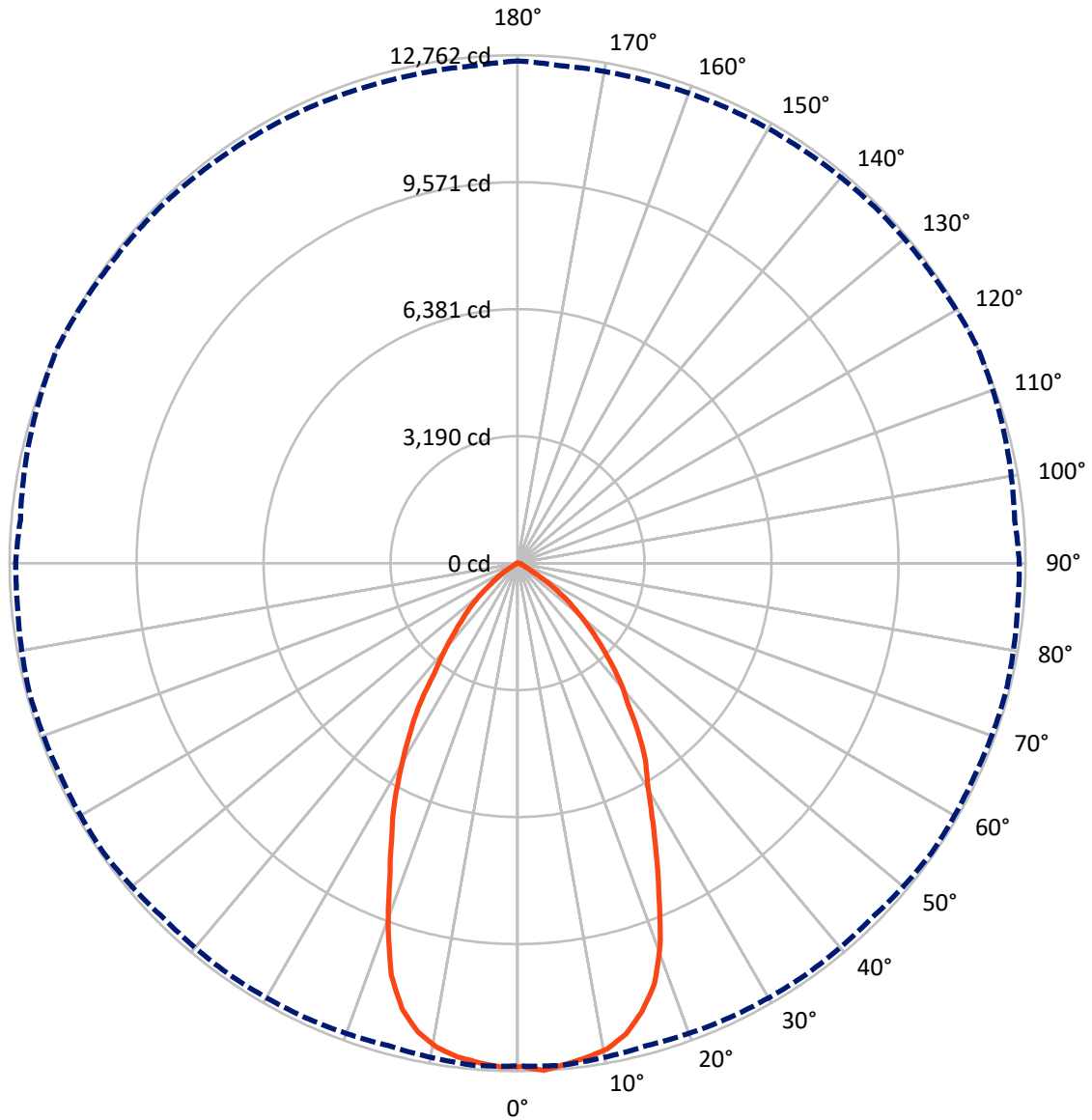
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 31.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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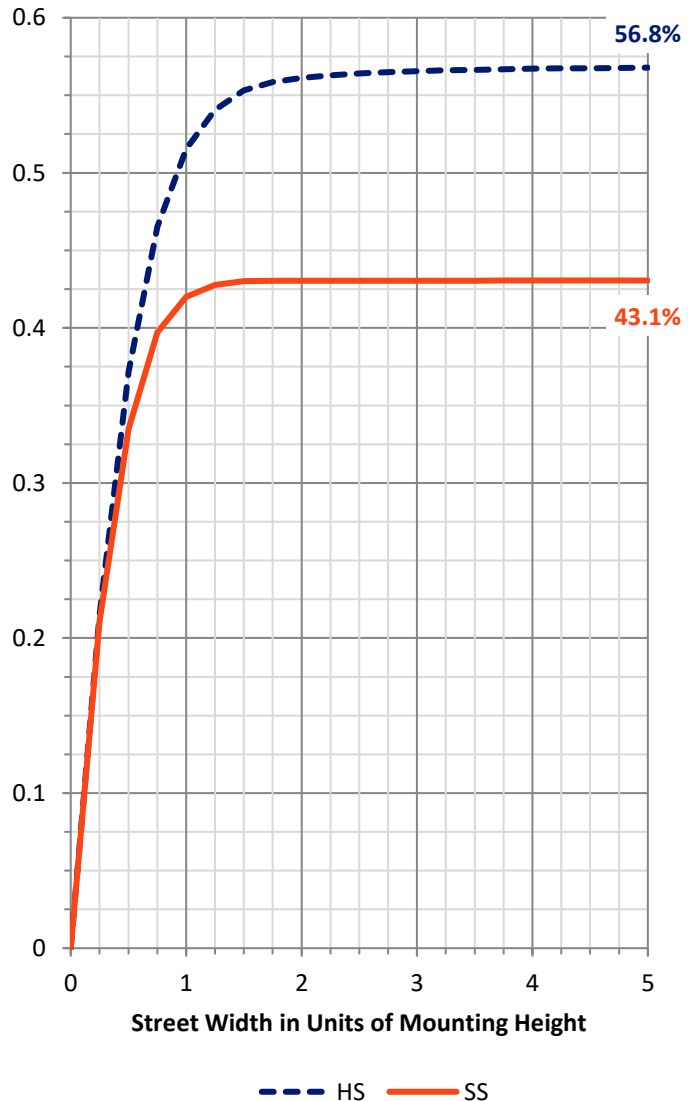
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8161.0 | 0.0 | 8161.0 |
| | % Fixture | 57.2 | 0.0 | 57.2 |
| Street Side | Lumens | 6099.3 | 0.0 | 6099.3 |
| | % Fixture | 42.8 | 0.0 | 42.8 |
| Total | Lumens | 14260.4 | 0.0 | 14260.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1191.7 | 8.4 |
| 10°-20° | 3159.8 | 22.2 |
| 20°-30° | 3614.2 | 25.3 |
| 30°-40° | 3097.2 | 21.7 |
| 40°-50° | 2048.0 | 14.4 |
| 50°-60° | 893.7 | 6.3 |
| 60°-70° | 175.6 | 1.2 |
| 70°-80° | 63.4 | 0.4 |
| 80°-90° | 16.8 | 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° | 14260.4 | 100.0 |
| 0°-180° | 14260.4 | 100.0 |



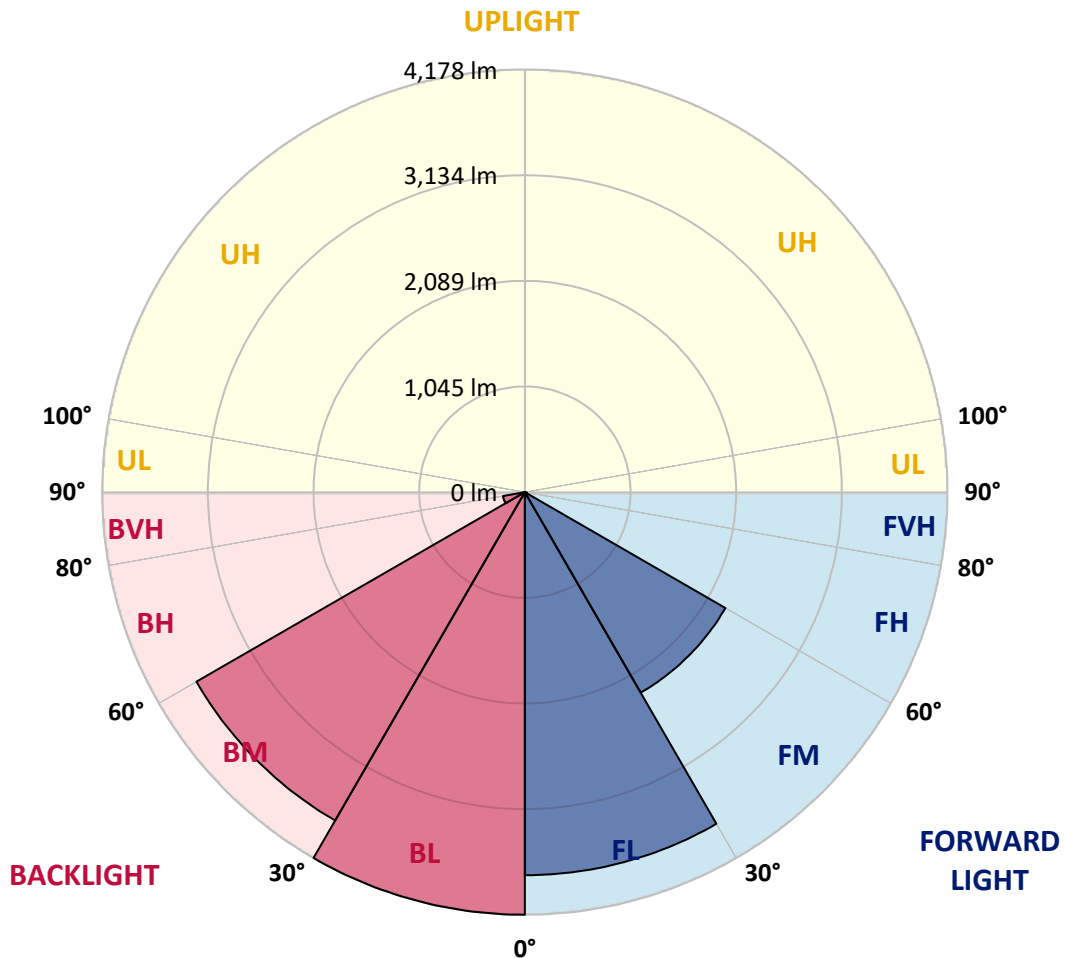
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 3787.3 | 26.6 | | | |
| FM (30°-60°) | 2289.9 | 16.1 | | | |
| FH (60°-80°) | 19.4 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 2.8 | 0.0 | | | G0/10 |
| BL (0°-30°) | 4178.4 | 29.3 | B4/5000 | | |
| BM (30°-60°) | 3749.0 | 26.3 | B3/5000 | | |
| BH (60°-80°) | 219.5 | 1.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 14.1 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12652.5 | 12652.5 | 12652.5 | 12652.5 | 12652.5 | 12652.5 | 12652.5 | 12652.5 | 12652.5 | 12652.5 |
| 2.5° | 12634.3 | 12664.7 | 12549.5 | 12601.0 | 12622.2 | 12594.9 | 12695.0 | 12664.7 | 12688.9 | 12613.1 |
| 5° | 12634.3 | 12664.7 | 12531.3 | 12555.5 | 12561.6 | 12510.1 | 12619.2 | 12582.8 | 12585.8 | 12507.0 |
| 7.5° | 12555.5 | 12591.9 | 12470.7 | 12488.8 | 12491.9 | 12449.4 | 12543.4 | 12491.9 | 12473.7 | 12391.8 |
| 10° | 12343.3 | 12364.6 | 12255.4 | 12300.9 | 12343.3 | 12303.9 | 12385.8 | 12328.2 | 12328.2 | 12255.4 |
| 12.5° | 12006.9 | 12046.3 | 11925.0 | 11979.6 | 12016.0 | 11970.5 | 12064.5 | 12043.3 | 12046.3 | 11973.5 |
| 15° | 11394.6 | 11258.2 | 11403.7 | 11512.8 | 11515.8 | 11506.7 | 11594.6 | 11573.4 | 11588.6 | 11479.4 |
| 17.5° | 8417.8 | 8384.5 | 8554.3 | 9842.5 | 10800.4 | 10930.8 | 10945.9 | 10830.7 | 10779.2 | 10673.1 |
| 20° | 7799.5 | 7823.7 | 7787.3 | 7793.4 | 8548.2 | 10115.4 | 10021.4 | 9736.5 | 9606.1 | 9500.0 |
| 22.5° | 7347.8 | 7308.4 | 7284.2 | 7269.0 | 7290.2 | 8311.8 | 8987.7 | 8557.3 | 8487.6 | 8436.0 |
| 25° | 6856.7 | 6838.6 | 6808.2 | 6802.2 | 6790.1 | 6617.3 | 7590.3 | 7629.7 | 7517.6 | 7453.9 |
| 27.5° | 6399.0 | 6386.9 | 6353.5 | 6350.5 | 6211.1 | 5792.8 | 5898.9 | 6835.5 | 6805.2 | 6781.0 |
| 30° | 5911.0 | 5886.7 | 5868.5 | 5868.5 | 5447.2 | 5016.8 | 4844.0 | 5959.5 | 5959.5 | 5938.3 |
| 32.5° | 5380.5 | 5359.3 | 5365.4 | 5292.6 | 4789.4 | 4395.3 | 4122.5 | 5144.1 | 5462.4 | 5444.2 |
| 35° | 3288.9 | 3282.9 | 3898.2 | 4707.6 | 4116.5 | 3758.8 | 3740.6 | 4401.4 | 4865.2 | 4913.7 |
| 37.5° | 2928.2 | 2910.0 | 2919.1 | 2970.6 | 3525.4 | 3382.9 | 3376.8 | 3489.0 | 4140.7 | 4165.0 |
| 40° | 2628.1 | 2616.0 | 2606.9 | 2422.0 | 2246.2 | 3019.1 | 2997.9 | 2925.2 | 3537.5 | 3579.9 |
| 42.5° | 2343.2 | 2331.0 | 2331.0 | 2070.4 | 1785.4 | 2482.6 | 2491.7 | 2406.8 | 2982.8 | 2997.9 |
| 45° | 2049.1 | 2040.0 | 1988.5 | 1652.0 | 1570.2 | 1649.0 | 2064.3 | 1967.3 | 2367.4 | 2525.1 |
| 47.5° | 967.0 | 960.9 | 1391.4 | 1373.2 | 1367.1 | 1318.6 | 1576.3 | 1630.8 | 1879.4 | 2037.0 |
| 50° | 776.0 | 769.9 | 733.6 | 645.7 | 1124.6 | 1000.3 | 1136.7 | 1254.9 | 1333.8 | 1479.3 |
| 52.5° | 642.6 | 636.6 | 560.8 | 497.1 | 624.4 | 730.5 | 679.0 | 839.7 | 836.6 | 994.3 |
| 55° | 421.3 | 391.0 | 430.4 | 406.2 | 327.4 | 530.5 | 518.3 | 636.6 | 621.4 | 757.8 |
| 57.5° | 9.1 | 9.1 | 21.2 | 230.4 | 206.1 | 224.3 | 297.1 | 363.8 | 409.2 | 448.6 |
| 60° | 3.0 | 3.0 | 6.1 | 12.1 | 84.9 | 94.0 | 115.2 | 133.4 | 187.9 | 233.4 |
| 62.5° | 0.0 | 0.0 | 3.0 | 6.1 | 12.1 | 48.5 | 54.6 | 63.7 | 87.9 | 121.3 |
| 65° | 0.0 | 0.0 | 0.0 | 3.0 | 6.1 | 12.1 | 18.2 | 39.4 | 54.6 | 69.7 |
| 67.5° | 0.0 | 0.0 | 0.0 | 3.0 | 3.0 | 6.1 | 12.1 | 18.2 | 24.3 | 48.5 |
| 70° | 0.0 | 0.0 | 0.0 | 3.0 | 3.0 | 6.1 | 9.1 | 12.1 | 18.2 | 24.3 |
| 72.5° | 0.0 | 0.0 | 0.0 | 3.0 | 3.0 | 9.1 | 6.1 | 9.1 | 12.1 | 15.2 |
| 75° | 0.0 | 0.0 | 0.0 | 3.0 | 3.0 | 3.0 | 6.1 | 9.1 | 9.1 | 12.1 |
| 77.5° | 0.0 | 0.0 | 0.0 | 3.0 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 9.1 |
| 80° | 0.0 | 0.0 | 0.0 | 3.0 | 3.0 | 6.1 | 9.1 | 12.1 | 6.1 | 6.1 |
| 82.5° | 0.0 | 0.0 | 0.0 | 6.1 | 3.0 | 12.1 | 18.2 | 15.2 | 6.1 | 3.0 |
| 85° | 0.0 | 0.0 | 0.0 | 3.0 | 12.1 | 15.2 | 15.2 | 9.1 | 3.0 | 3.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 3.0 | 3.0 | 6.1 | 9.1 | 9.1 | 3.0 | 3.0 |
| 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 12652.5 | 0° | 12652.5 | 12652.5 | 12652.5 | 12652.5 | 12652.5 | 12652.5 | 12652.5 | 12652.5 | 12652.5 |
| 12607.1 | 2.5° | 12537.3 | 12655.6 | 12761.7 | 12695.0 | 12670.7 | 12622.2 | 12585.8 | 12546.4 | 12543.4 |
| 12497.9 | 5° | 12428.2 | 12540.4 | 12643.4 | 12564.6 | 12570.7 | 12546.4 | 12522.2 | 12513.1 | 12519.2 |
| 12385.8 | 7.5° | 12334.3 | 12428.2 | 12540.4 | 12473.7 | 12491.9 | 12476.7 | 12464.6 | 12446.4 | 12473.7 |
| 12240.3 | 10° | 12191.8 | 12276.7 | 12407.0 | 12343.3 | 12334.3 | 12319.1 | 12307.0 | 12273.6 | 12288.8 |
| 11976.6 | 12.5° | 11879.6 | 11985.7 | 12134.2 | 12061.4 | 12085.7 | 12043.3 | 12025.1 | 12003.8 | 12006.9 |
| 11518.8 | 15° | 11455.2 | 11537.0 | 11688.6 | 11631.0 | 11649.2 | 11621.9 | 11621.9 | 11621.9 | 11643.1 |
| 10688.3 | 17.5° | 10715.6 | 10882.3 | 11121.7 | 11049.0 | 11076.3 | 11082.3 | 11076.3 | 11097.5 | 11124.8 |
| 9506.1 | 20° | 9512.1 | 9797.1 | 10233.6 | 10376.0 | 10433.6 | 10436.7 | 10394.2 | 10445.8 | 10500.3 |
| 8399.7 | 22.5° | 8405.7 | 8705.8 | 9090.8 | 9481.8 | 9724.3 | 9712.2 | 9718.3 | 9751.6 | 9809.2 |
| 7414.5 | 25° | 7447.8 | 7735.8 | 8084.4 | 8433.0 | 8963.5 | 9072.6 | 9075.6 | 9105.9 | 9151.4 |
| 6741.6 | 27.5° | 6756.7 | 6868.9 | 7187.2 | 7538.8 | 8108.7 | 8457.3 | 8439.1 | 8466.3 | 8514.8 |
| 5898.9 | 30° | 5923.1 | 6353.5 | 6426.3 | 6641.5 | 7132.6 | 7772.2 | 7775.2 | 7805.5 | 7854.0 |
| 5401.7 | 32.5° | 5386.6 | 5671.5 | 5895.8 | 5901.9 | 6320.2 | 6978.0 | 7108.3 | 7138.6 | 7172.0 |
| 4886.4 | 35° | 4883.4 | 4916.7 | 5219.9 | 5304.7 | 5547.2 | 6199.0 | 6429.3 | 6447.5 | 6502.1 |
| 4155.9 | 37.5° | 4225.6 | 4422.6 | 4507.5 | 4810.6 | 4822.8 | 5350.2 | 5807.9 | 5789.7 | 5832.2 |
| 3576.9 | 40° | 3622.4 | 3810.3 | 4025.5 | 4246.8 | 4277.1 | 4671.2 | 5177.4 | 5195.6 | 5213.8 |
| 2967.6 | 42.5° | 2991.9 | 3231.3 | 3452.6 | 3601.2 | 3807.3 | 4034.6 | 4516.6 | 4601.5 | 4643.9 |
| 2543.2 | 45° | 2588.7 | 2655.4 | 2919.1 | 3137.4 | 3346.5 | 3452.6 | 3904.3 | 4058.9 | 4086.2 |
| 2012.8 | 47.5° | 2040.0 | 2264.4 | 2443.2 | 2628.1 | 2888.8 | 2982.8 | 3310.2 | 3525.4 | 3546.6 |
| 1494.4 | 50° | 1576.3 | 1736.9 | 1982.5 | 2149.2 | 2452.3 | 2503.8 | 2728.1 | 3007.0 | 3034.3 |
| 1000.3 | 52.5° | 1127.6 | 1345.9 | 1585.4 | 1746.0 | 2037.0 | 2103.7 | 2270.4 | 2537.2 | 2555.4 |
| 766.9 | 55° | 809.4 | 951.8 | 1148.9 | 1379.2 | 1591.4 | 1740.0 | 1855.1 | 2109.8 | 2134.0 |
| 503.2 | 57.5° | 551.7 | 685.1 | 766.9 | 997.3 | 1124.6 | 1285.3 | 1379.2 | 1573.2 | 1591.4 |
| 239.5 | 60° | 263.7 | 327.4 | 391.0 | 506.2 | 588.1 | 724.5 | 785.1 | 863.9 | 885.1 |
| 145.5 | 62.5° | 169.8 | 200.1 | 254.6 | 303.1 | 381.9 | 466.8 | 491.1 | 557.8 | 582.0 |
| 90.9 | 65° | 112.2 | 142.5 | 200.1 | 212.2 | 291.0 | 357.7 | 388.0 | 436.5 | 463.8 |
| 54.6 | 67.5° | 63.7 | 100.0 | 148.5 | 175.8 | 230.4 | 294.0 | 327.4 | 369.8 | 394.1 |
| 36.4 | 70° | 42.4 | 81.8 | 118.2 | 145.5 | 181.9 | 236.4 | 278.9 | 315.3 | 330.4 |
| 18.2 | 72.5° | 24.3 | 51.5 | 81.8 | 115.2 | 145.5 | 197.0 | 236.4 | 266.8 | 175.8 |
| 12.1 | 75° | 15.2 | 39.4 | 69.7 | 97.0 | 121.3 | 157.6 | 191.0 | 187.9 | 78.8 |
| 9.1 | 77.5° | 12.1 | 30.3 | 60.6 | 81.8 | 100.0 | 109.1 | 136.4 | 154.6 | 60.6 |
| 6.1 | 80° | 9.1 | 24.3 | 54.6 | 69.7 | 39.4 | 78.8 | 106.1 | 115.2 | 42.4 |
| 6.1 | 82.5° | 6.1 | 15.2 | 45.5 | 48.5 | 27.3 | 57.6 | 84.9 | 75.8 | 30.3 |
| 3.0 | 85° | 3.0 | 9.1 | 15.2 | 27.3 | 24.3 | 27.3 | 21.2 | 30.3 | 21.2 |
| 3.0 | 87.5° | 3.0 | 6.1 | 12.1 | 12.1 | 12.1 | 9.1 | 12.1 | 12.1 | 12.1 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
12652.5
12616.2
12594.9
12549.5
12361.5
12094.8
11652.2
11215.7
10536.7
9818.3
9230.2
8560.3
7938.9
7247.8
6559.7
5883.7
5271.4
4704.5
4152.8
3598.1
3073.7
2588.7
2155.2
1627.8
909.4
588.1
463.8
391.0
327.4
142.5
78.8
60.6
45.5
30.3
21.2
12.1
0.0

(END OF REPORT)