

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: P637202

Luminaire Tested: **IFLD-S-SA2B-827-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637202
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-827-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8346.9 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

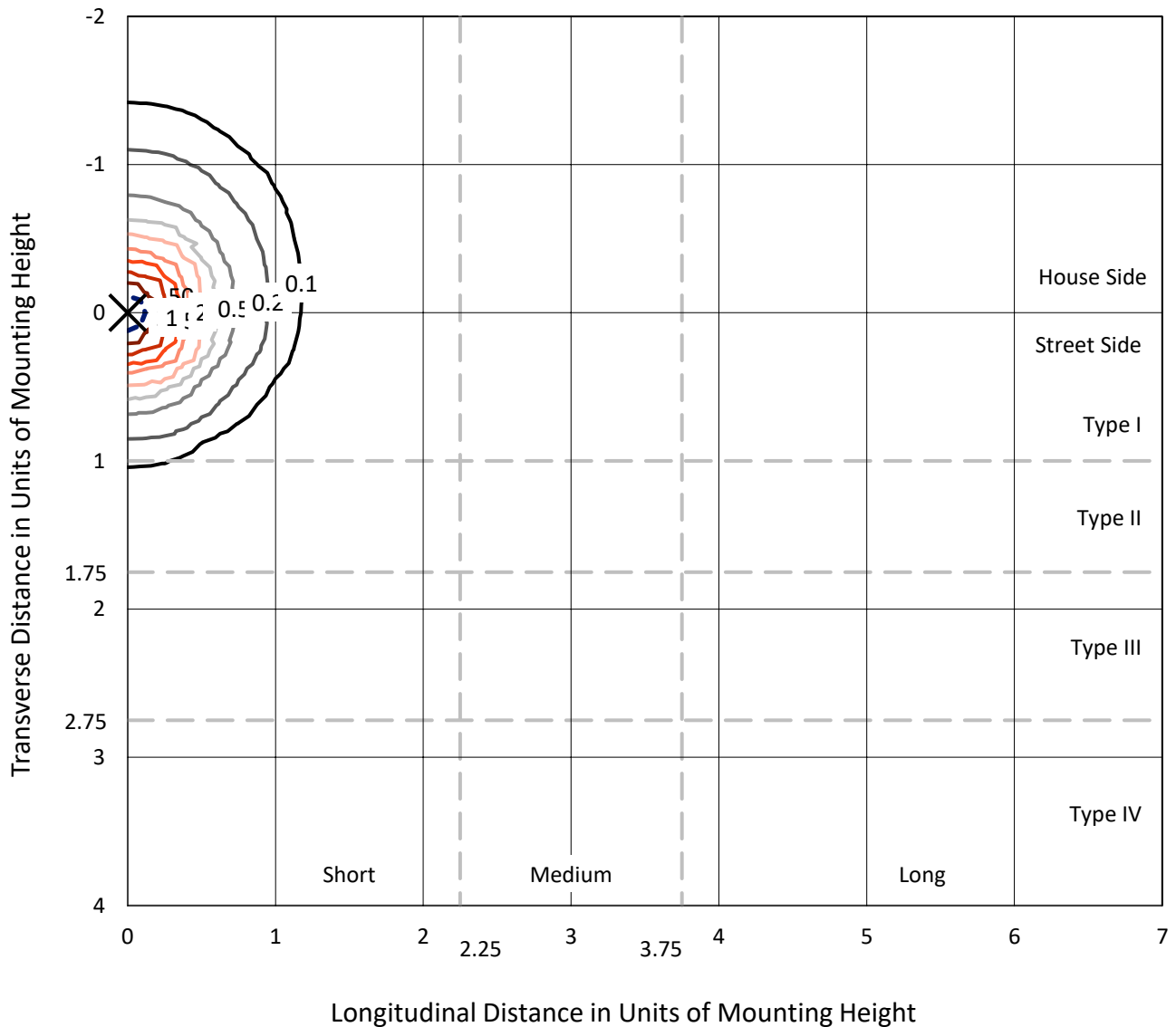
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

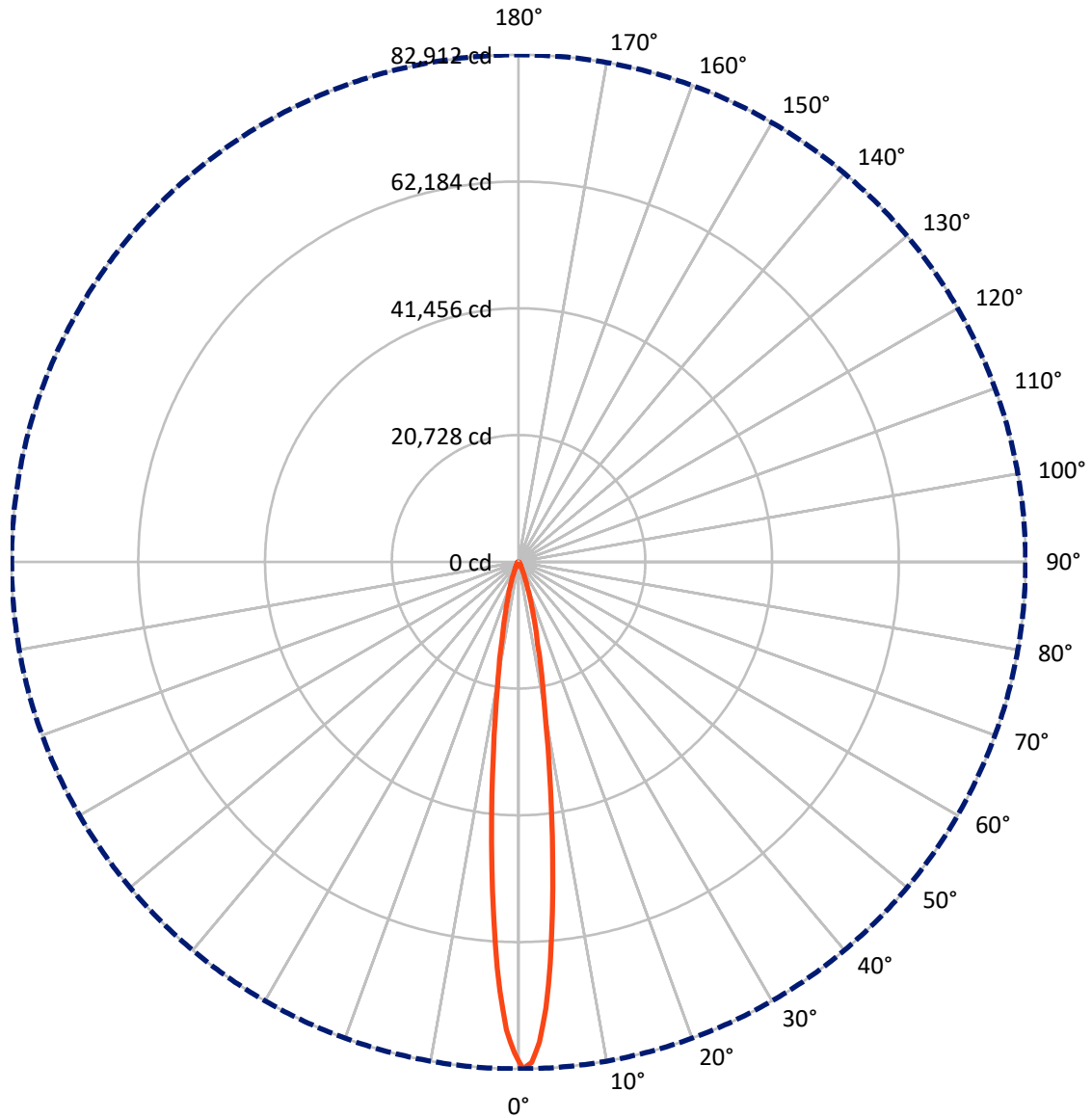
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 207.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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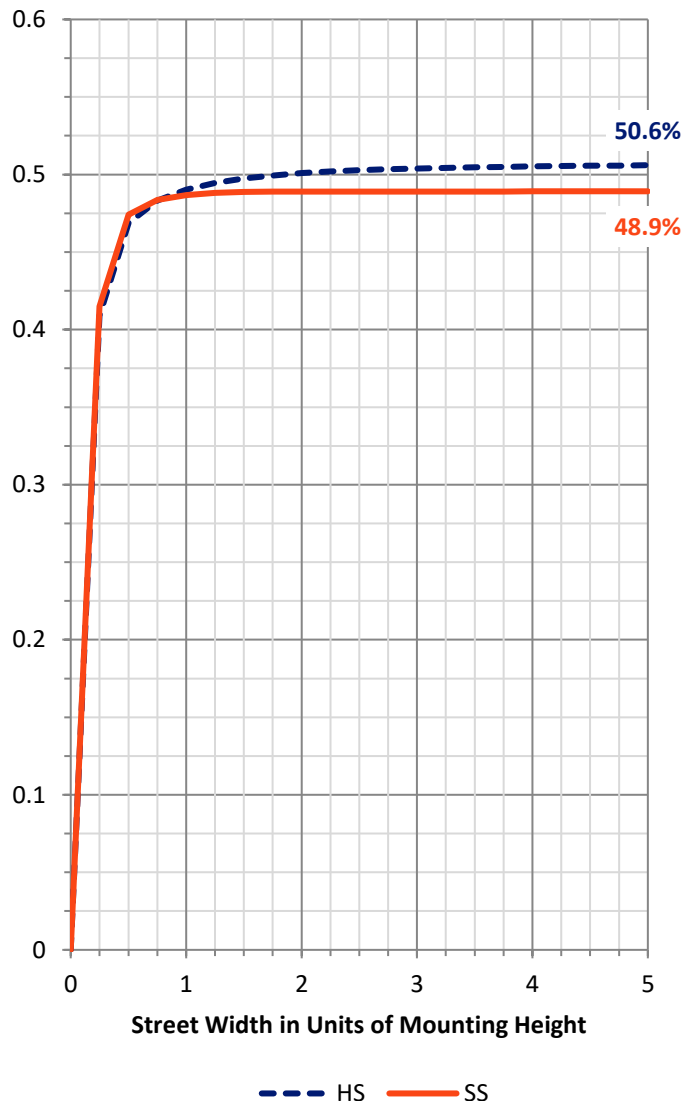
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4275.1 | 0.0 | 4275.1 |
| | % Fixture | 51.2 | 0.0 | 51.2 |
| Street Side | Lumens | 4071.7 | 0.0 | 4071.7 |
| | % Fixture | 48.8 | 0.0 | 48.8 |
| Total | Lumens | 8346.9 | 0.0 | 8346.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 4213.8 | 50.5 |
| 10°-20° | 2697.6 | 32.3 |
| 20°-30° | 810.9 | 9.7 |
| 30°-40° | 264.0 | 3.2 |
| 40°-50° | 153.6 | 1.8 |
| 50°-60° | 102.0 | 1.2 |
| 60°-70° | 61.4 | 0.7 |
| 70°-80° | 31.6 | 0.4 |
| 80°-90° | 12.0 | 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° | 8346.9 | 100.0 |
| 0°-180° | 8346.9 | 100.0 |

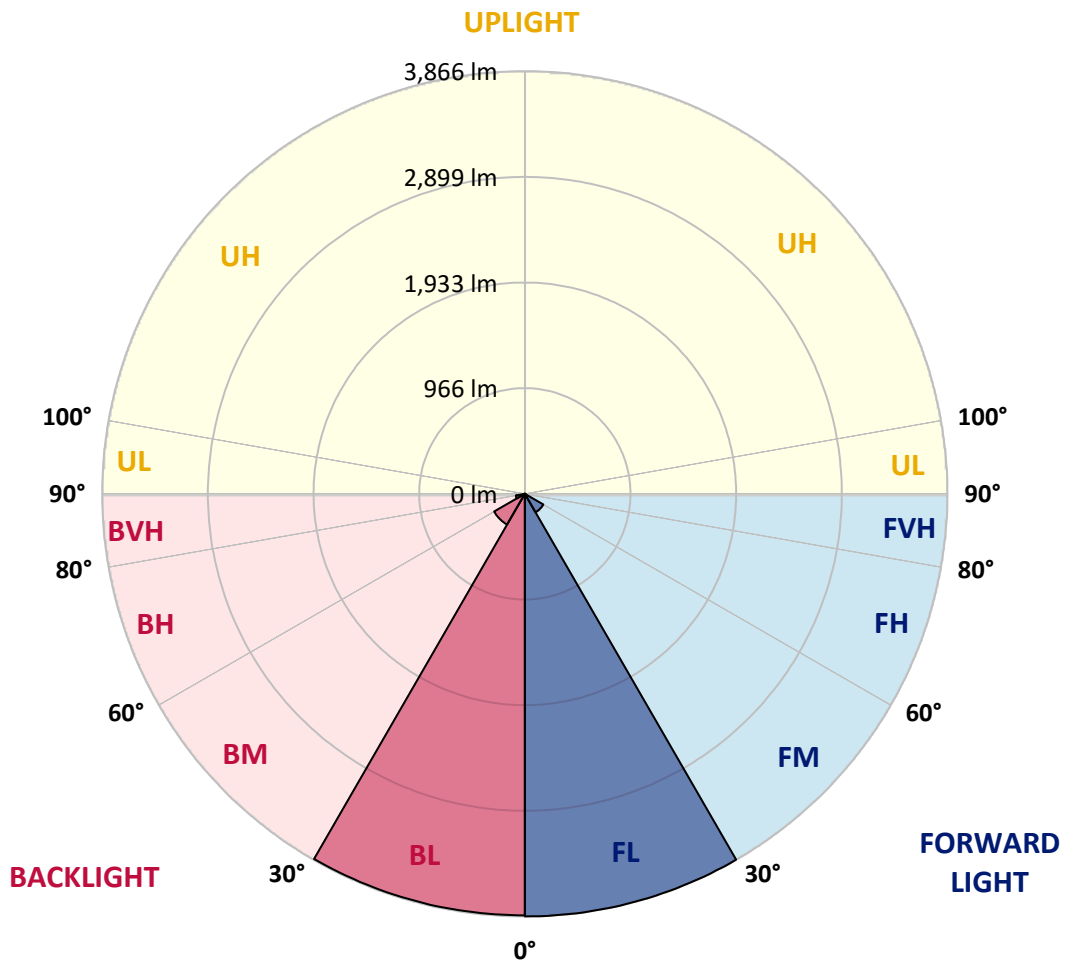


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 3865.7 | 46.3 | | | |
| FM (30°-60°) | 195.1 | 2.3 | | | |
| FH (60°-80°) | 9.2 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 1.8 | 0.0 | | | G0/10 |
| BL (0°-30°) | 3856.5 | 46.2 | B4/5000 | | |
| BM (30°-60°) | 324.6 | 3.9 | B1/1000 | | |
| BH (60°-80°) | 83.8 | 1.0 | B0/110 | | G0/660 |
| BVH (80°-90°) | 10.2 | 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 V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 82911.6 | 82911.6 | 82911.6 | 82911.6 | 82911.6 | 82911.6 | 82911.6 | 82911.6 | 82911.6 | 82911.6 |
| 1° | 81918.9 | 81668.9 | 81023.4 | 81482.5 | 81886.2 | 81768.9 | 81760.7 | 81717.1 | 81656.2 | 82134.4 |
| 2° | 78644.3 | 78482.5 | 77527.9 | 77921.6 | 78495.2 | 78077.0 | 78338.8 | 78108.8 | 78113.4 | 78684.3 |
| 3° | 73124.2 | 73212.4 | 71689.6 | 72405.1 | 73202.4 | 72188.7 | 72503.3 | 73094.2 | 72475.1 | 72288.7 |
| 4° | 65949.5 | 65184.0 | 64352.2 | 65079.5 | 65285.8 | 64695.8 | 65275.8 | 65999.5 | 65139.5 | 65177.7 |
| 5° | 57758.4 | 57193.0 | 56208.4 | 56657.5 | 56145.7 | 56332.0 | 57201.1 | 57499.3 | 56899.3 | 56143.8 |
| 6° | 49336.4 | 48934.6 | 47703.7 | 48351.0 | 48169.1 | 48063.7 | 49161.0 | 48251.9 | 48579.1 | 48121.9 |
| 7° | 41038.1 | 40287.2 | 39682.6 | 40302.6 | 40342.6 | 40025.3 | 41449.9 | 41284.5 | 40689.0 | 40550.8 |
| 8° | 34000.7 | 33251.6 | 32739.7 | 33201.6 | 33503.4 | 33005.2 | 33675.2 | 34115.2 | 33649.8 | 33691.6 |
| 9° | 27423.3 | 27291.5 | 26579.6 | 27183.3 | 27511.5 | 26977.8 | 27719.6 | 27878.7 | 27443.3 | 27655.1 |
| 10° | 22516.8 | 22363.2 | 21795.0 | 22039.5 | 22583.2 | 21946.8 | 22658.6 | 22710.5 | 22363.2 | 22462.3 |
| 12.5° | 13914.8 | 13853.0 | 13837.5 | 13873.0 | 13865.7 | 13978.5 | 14160.3 | 13953.0 | 13925.7 | 13583.0 |
| 15° | 8993.8 | 9085.6 | 8991.1 | 9172.9 | 9199.3 | 9305.6 | 9194.7 | 9027.5 | 8708.4 | 8550.2 |
| 17.5° | 5612.8 | 5730.1 | 5891.9 | 6158.3 | 6424.7 | 6455.6 | 6308.3 | 6111.9 | 5957.4 | 5788.3 |
| 20° | 3229.2 | 3286.4 | 3261.9 | 3581.0 | 4270.1 | 4457.4 | 4267.4 | 4061.0 | 3874.6 | 3703.7 |
| 22.5° | 2006.4 | 1985.5 | 2023.7 | 2131.0 | 2355.5 | 2934.6 | 2779.1 | 2572.8 | 2437.3 | 2296.4 |
| 25° | 1230.0 | 1252.8 | 1238.2 | 1297.3 | 1398.2 | 1643.7 | 1679.1 | 1590.0 | 1520.9 | 1448.2 |
| 27.5° | 791.8 | 791.8 | 798.2 | 830.9 | 900.0 | 891.8 | 1080.9 | 1011.8 | 974.6 | 939.1 |
| 30° | 550.0 | 551.8 | 551.8 | 570.9 | 586.4 | 559.1 | 608.2 | 697.3 | 680.0 | 652.7 |
| 32.5° | 408.2 | 413.6 | 418.2 | 428.2 | 415.5 | 386.4 | 398.2 | 501.8 | 491.8 | 481.8 |
| 35° | 310.9 | 315.5 | 326.4 | 331.8 | 313.6 | 295.5 | 284.6 | 369.1 | 373.6 | 370.9 |
| 37.5° | 226.4 | 229.1 | 249.1 | 270.0 | 249.1 | 232.7 | 226.4 | 283.6 | 305.5 | 302.7 |
| 40° | 173.6 | 174.5 | 178.2 | 201.8 | 201.8 | 189.1 | 190.9 | 211.8 | 250.0 | 250.0 |
| 42.5° | 149.1 | 149.1 | 152.7 | 149.1 | 150.0 | 163.6 | 168.2 | 170.9 | 211.8 | 211.8 |
| 45° | 129.1 | 129.1 | 130.9 | 121.8 | 112.7 | 140.9 | 144.5 | 145.5 | 178.2 | 182.7 |
| 47.5° | 108.2 | 108.2 | 111.8 | 100.0 | 95.5 | 111.8 | 121.8 | 124.5 | 153.6 | 157.3 |
| 50° | 80.0 | 80.9 | 91.8 | 81.8 | 84.5 | 86.4 | 105.5 | 107.3 | 130.0 | 138.2 |
| 52.5° | 53.6 | 53.6 | 55.5 | 63.6 | 73.6 | 70.9 | 85.5 | 91.8 | 103.6 | 114.5 |
| 55° | 43.6 | 43.6 | 42.7 | 40.9 | 54.5 | 59.1 | 62.7 | 76.4 | 84.5 | 98.2 |
| 57.5° | 30.0 | 31.8 | 29.1 | 33.6 | 35.5 | 44.5 | 47.3 | 60.0 | 64.5 | 82.7 |
| 60° | 3.6 | 4.5 | 6.4 | 24.5 | 23.6 | 30.0 | 35.5 | 47.3 | 52.7 | 63.6 |
| 62.5° | 0.9 | 0.9 | 1.8 | 4.5 | 16.4 | 20.0 | 28.2 | 32.7 | 38.2 | 49.1 |
| 65° | 0.0 | 0.0 | 0.9 | 1.8 | 3.6 | 10.9 | 14.5 | 19.1 | 27.3 | 34.5 |
| 67.5° | 0.0 | 0.0 | 0.9 | 1.8 | 1.8 | 4.5 | 7.3 | 11.8 | 14.5 | 25.5 |
| 70° | 0.0 | 0.0 | 0.9 | 1.8 | 1.8 | 3.6 | 4.5 | 5.5 | 10.0 | 13.6 |
| 72.5° | 0.0 | 0.0 | 0.9 | 1.8 | 2.7 | 3.6 | 4.5 | 4.5 | 4.5 | 9.1 |
| 75° | 0.0 | 0.0 | 0.9 | 1.8 | 2.7 | 3.6 | 4.5 | 4.5 | 3.6 | 3.6 |
| 77.5° | 0.0 | 0.0 | 0.9 | 1.8 | 3.6 | 4.5 | 5.5 | 4.5 | 2.7 | 2.7 |
| 80° | 0.0 | 0.0 | 0.9 | 2.7 | 4.5 | 6.4 | 7.3 | 5.5 | 2.7 | 1.8 |
| 82.5° | 0.0 | 0.0 | 1.8 | 3.6 | 5.5 | 7.3 | 10.0 | 8.2 | 3.6 | 1.8 |
| 85° | 0.0 | 0.0 | 0.9 | 2.7 | 5.5 | 7.3 | 14.5 | 10.0 | 4.5 | 0.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 1.8 | 5.5 | 3.6 | 1.8 | 0.9 |
| 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 82911.6 | 0° | 82911.6 | 82911.6 | 82911.6 | 82911.6 | 82911.6 | 82911.6 | 82911.6 | 82911.6 | 82911.6 |
| 81582.5 | 1° | 82152.5 | 82209.8 | 82022.5 | 82312.5 | 82210.7 | 81614.4 | 81417.1 | 81183.4 | 80847.1 |
| 78348.8 | 2° | 78108.8 | 78400.7 | 78415.2 | 78737.0 | 78732.5 | 78037.0 | 77821.5 | 78218.8 | 77443.4 |
| 72666.9 | 3° | 72446.9 | 72786.9 | 72480.5 | 73052.4 | 72880.5 | 72036.9 | 71817.8 | 72268.7 | 71705.1 |
| 65479.5 | 4° | 65284.0 | 65219.5 | 65114.0 | 64788.6 | 65189.5 | 64614.0 | 64180.4 | 64792.2 | 63586.7 |
| 57145.7 | 5° | 57031.1 | 56887.5 | 56682.0 | 56585.7 | 56883.9 | 56515.7 | 55623.8 | 56517.5 | 54367.4 |
| 48949.2 | 6° | 49009.2 | 48391.0 | 48361.0 | 48307.3 | 48337.3 | 47306.4 | 47368.2 | 48033.7 | 46244.6 |
| 40075.3 | 7° | 40499.0 | 40612.6 | 40380.8 | 40752.6 | 40469.0 | 39770.8 | 39501.7 | 40202.6 | 38938.0 |
| 33875.2 | 8° | 33638.9 | 33495.2 | 33317.9 | 33873.4 | 33381.6 | 32923.4 | 32609.7 | 33163.4 | 32224.3 |
| 27689.6 | 9° | 27637.8 | 27389.6 | 27209.6 | 27181.4 | 27257.8 | 26397.8 | 26572.3 | 26991.4 | 26426.0 |
| 22516.8 | 10° | 22525.0 | 22117.7 | 22216.8 | 22243.2 | 22159.5 | 21595.9 | 21601.3 | 21745.9 | 21065.9 |
| 13810.3 | 12.5° | 13761.2 | 13561.2 | 13611.2 | 13638.5 | 13808.5 | 13610.3 | 13330.3 | 13128.4 | 13026.6 |
| 8707.4 | 15° | 8649.3 | 8505.6 | 8799.3 | 8996.5 | 8956.5 | 8780.2 | 8648.4 | 8465.6 | 8318.3 |
| 5788.3 | 17.5° | 5734.7 | 5922.8 | 5923.8 | 6103.8 | 6121.9 | 5945.6 | 5843.8 | 5679.2 | 5686.5 |
| 3764.6 | 20° | 3751.0 | 3829.2 | 3991.9 | 4119.2 | 4192.8 | 4058.3 | 3936.4 | 3823.7 | 3776.4 |
| 2347.3 | 22.5° | 2347.3 | 2483.7 | 2585.5 | 2751.0 | 2818.2 | 2720.1 | 2633.7 | 2541.9 | 2485.5 |
| 1465.5 | 25° | 1440.9 | 1538.2 | 1622.8 | 1766.4 | 1858.2 | 1810.9 | 1731.9 | 1667.3 | 1637.3 |
| 946.4 | 27.5° | 960.9 | 1001.8 | 1043.7 | 1142.8 | 1238.2 | 1211.8 | 1180.0 | 1140.9 | 1127.3 |
| 667.3 | 30° | 677.3 | 680.9 | 725.5 | 780.9 | 844.6 | 860.9 | 846.4 | 826.4 | 810.9 |
| 490.0 | 32.5° | 499.1 | 513.6 | 534.6 | 569.1 | 611.8 | 650.9 | 643.6 | 634.6 | 627.3 |
| 374.6 | 35° | 385.5 | 407.3 | 424.6 | 450.9 | 473.6 | 510.9 | 517.3 | 514.6 | 509.1 |
| 308.2 | 37.5° | 314.6 | 333.6 | 350.9 | 366.4 | 385.5 | 410.9 | 430.9 | 431.8 | 426.4 |
| 254.6 | 40° | 260.9 | 278.2 | 300.9 | 312.7 | 326.4 | 345.5 | 370.0 | 371.8 | 370.0 |
| 215.5 | 42.5° | 220.0 | 236.4 | 259.1 | 273.6 | 283.6 | 301.8 | 326.4 | 330.0 | 326.4 |
| 184.5 | 45° | 189.1 | 199.1 | 222.7 | 240.0 | 250.0 | 261.8 | 288.2 | 291.8 | 290.9 |
| 159.1 | 47.5° | 164.5 | 174.5 | 189.1 | 213.6 | 222.7 | 233.6 | 254.6 | 260.9 | 260.9 |
| 140.9 | 50° | 144.5 | 154.5 | 167.3 | 189.1 | 202.7 | 211.8 | 229.1 | 238.2 | 238.2 |
| 122.7 | 52.5° | 128.2 | 138.2 | 151.8 | 169.1 | 184.5 | 192.7 | 209.1 | 220.9 | 220.9 |
| 100.0 | 55° | 107.3 | 124.5 | 134.5 | 150.0 | 170.9 | 178.2 | 190.9 | 206.4 | 206.4 |
| 87.3 | 57.5° | 93.6 | 108.2 | 122.7 | 135.5 | 156.4 | 165.5 | 178.2 | 192.7 | 194.5 |
| 69.1 | 60° | 79.1 | 92.7 | 110.0 | 120.9 | 140.9 | 152.7 | 166.4 | 180.0 | 183.6 |
| 52.7 | 62.5° | 62.7 | 80.9 | 92.7 | 108.2 | 127.3 | 142.7 | 153.6 | 167.3 | 172.7 |
| 40.9 | 65° | 46.4 | 66.4 | 80.0 | 96.4 | 114.5 | 130.9 | 140.0 | 154.5 | 158.2 |
| 29.1 | 67.5° | 33.6 | 51.8 | 68.2 | 83.6 | 100.9 | 117.3 | 126.4 | 139.1 | 141.8 |
| 18.2 | 70° | 26.4 | 38.2 | 56.4 | 70.0 | 88.2 | 101.8 | 111.8 | 120.0 | 122.7 |
| 11.8 | 72.5° | 15.5 | 29.1 | 45.5 | 60.9 | 77.3 | 86.4 | 93.6 | 100.9 | 102.7 |
| 5.5 | 75° | 10.0 | 22.7 | 37.3 | 50.9 | 62.7 | 70.9 | 77.3 | 83.6 | 84.5 |
| 2.7 | 77.5° | 6.4 | 16.4 | 30.0 | 42.7 | 48.2 | 58.2 | 63.6 | 67.3 | 65.5 |
| 1.8 | 80° | 3.6 | 12.7 | 26.4 | 34.5 | 39.1 | 45.5 | 50.9 | 55.5 | 50.9 |
| 1.8 | 82.5° | 2.7 | 10.9 | 21.8 | 29.1 | 29.1 | 36.4 | 39.1 | 39.1 | 37.3 |
| 0.9 | 85° | 1.8 | 9.1 | 17.3 | 27.3 | 21.8 | 27.3 | 25.5 | 25.5 | 25.5 |
| 0.9 | 87.5° | 1.8 | 6.4 | 8.2 | 11.8 | 10.0 | 11.8 | 11.8 | 13.6 | 13.6 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
82911.6
80258.0
76536.1
70265.9
62577.6
54162.9
46104.6
38296.2
31582.4
25682.3
20762.2
13005.7
8372.0
5638.3
3784.6
2492.8
1630.0
1118.2
812.7
627.3
505.5
425.5
369.1
327.3
290.9
261.8
239.1
220.9
207.3
193.6
183.6
173.6
157.3
140.0
122.7
102.7
83.6
65.5
50.0
36.4
24.5
13.6
0.0

(END OF REPORT)