

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: P637469

Luminaire Tested: **IFLD-S-SA3C-827-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637469
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-827-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (48) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15017.8 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

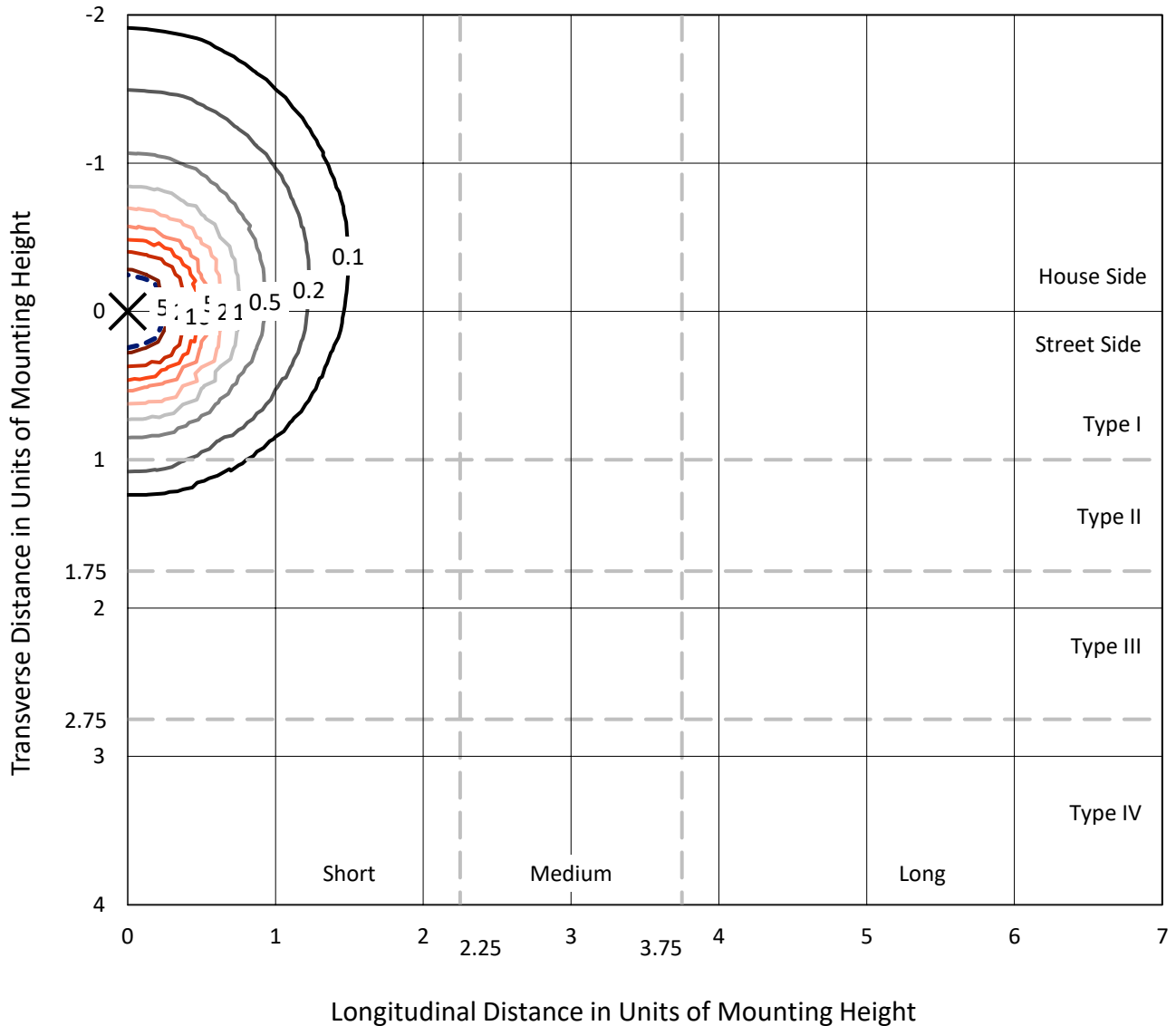
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

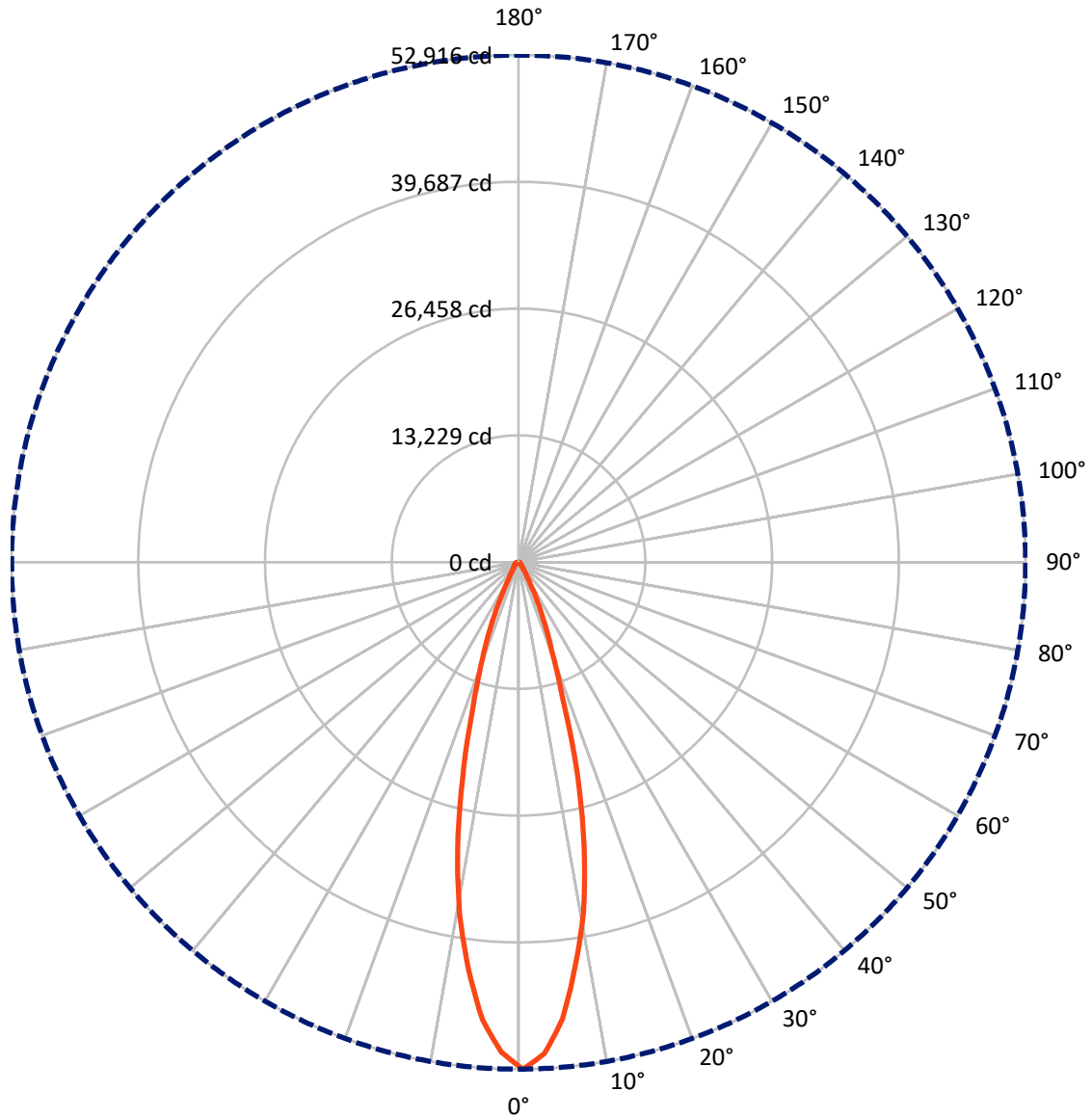
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 132.3 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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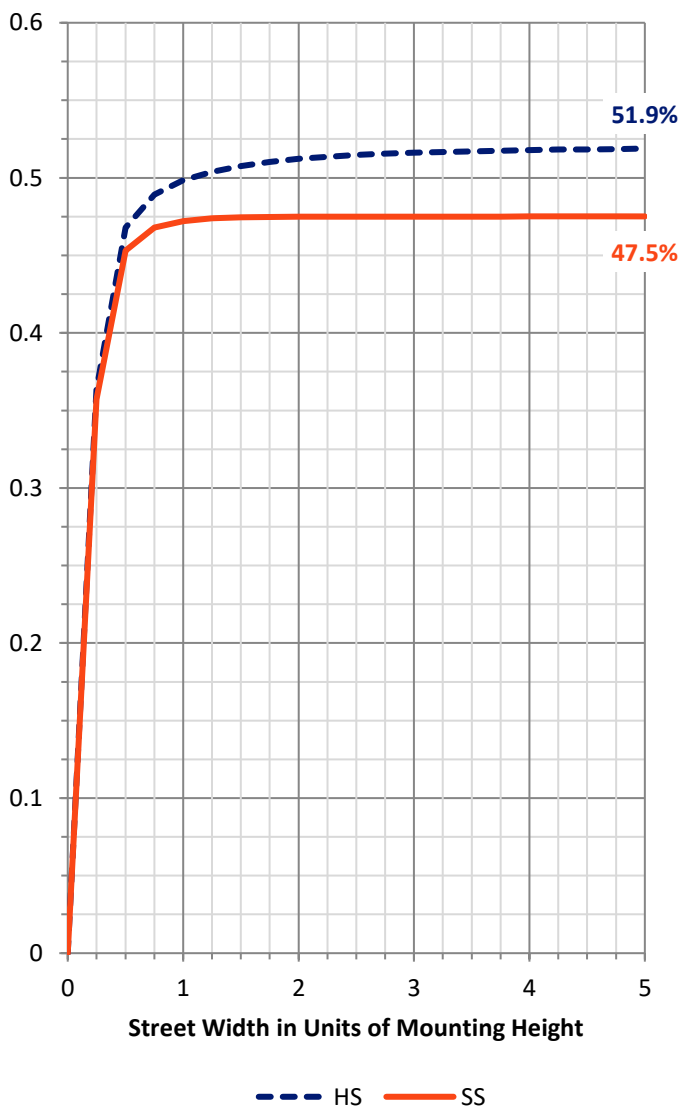
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7918.4 | 0.0 | 7918.4 |
| | % Fixture | 52.7 | 0.0 | 52.7 |
| Street Side | Lumens | 7099.4 | 0.0 | 7099.4 |
| | % Fixture | 47.3 | 0.0 | 47.3 |
| Total | Lumens | 15017.8 | 0.0 | 15017.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 4270.8 | 28.4 |
| 10°-20° | 6468.1 | 43.1 |
| 20°-30° | 2729.6 | 18.2 |
| 30°-40° | 711.9 | 4.7 |
| 40°-50° | 360.1 | 2.4 |
| 50°-60° | 235.4 | 1.6 |
| 60°-70° | 141.0 | 0.9 |
| 70°-80° | 74.2 | 0.5 |
| 80°-90° | 26.8 | 0.2 |
| 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° | 15017.8 | 100.0 |
| 0°-180° | 15017.8 | 100.0 |



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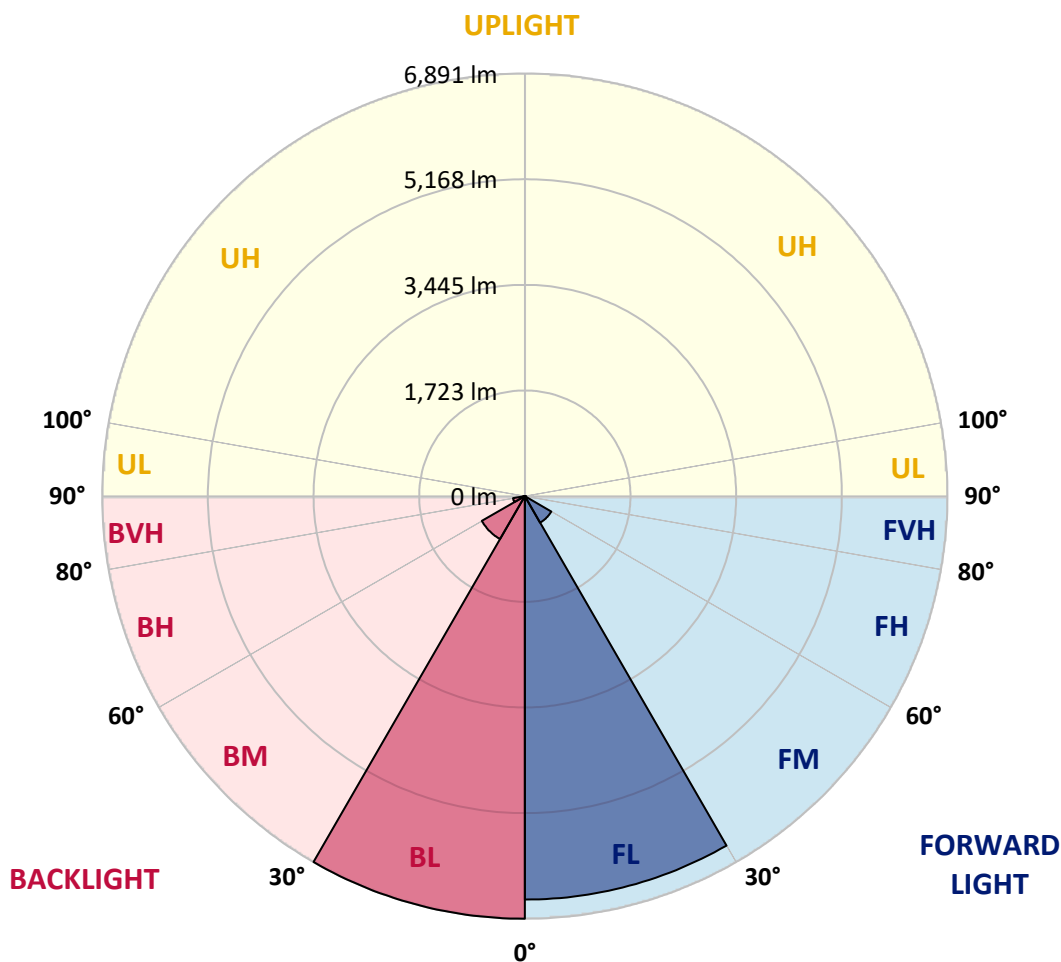
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 6577.7 | 43.8 | | | |
| FM (30°-60°) | 498.1 | 3.3 | | | |
| FH (60°-80°) | 20.3 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 3.3 | 0.0 | | | G0/10 |
| BL (0°-30°) | 6890.8 | 45.9 | B5 | | |
| BM (30°-60°) | 809.2 | 5.4 | B1/1000 | | |
| BH (60°-80°) | 194.9 | 1.3 | B1/500 | | G0/660 |
| BVH (80°-90°) | 23.5 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 52916.4 | 52916.4 | 52916.4 | 52916.4 | 52916.4 | 52916.4 | 52916.4 | 52916.4 | 52916.4 | 52916.4 |
| 2.5° | 51374.9 | 51403.6 | 51297.3 | 51526.7 | 51347.9 | 51826.9 | 51589.1 | 51960.1 | 51835.3 | 52042.8 |
| 5° | 47866.9 | 47819.7 | 47789.3 | 48145.2 | 48042.3 | 48556.7 | 48227.8 | 48119.9 | 48453.8 | 48393.1 |
| 7.5° | 42569.6 | 42694.4 | 42623.5 | 42716.3 | 42768.6 | 43355.5 | 43541.0 | 43396.0 | 43401.0 | 43485.3 |
| 10° | 37138.9 | 36955.1 | 36693.7 | 36867.4 | 37235.1 | 37491.4 | 37388.6 | 37601.1 | 37553.8 | 37754.5 |
| 12.5° | 30456.9 | 30602.0 | 30455.3 | 30300.1 | 30942.7 | 30871.8 | 31050.6 | 31167.0 | 30875.2 | 31524.5 |
| 15° | 22941.8 | 23017.7 | 23196.5 | 23184.6 | 23678.8 | 23778.3 | 23754.7 | 23877.8 | 23650.1 | 23758.1 |
| 17.5° | 14738.5 | 14994.9 | 15475.5 | 16288.4 | 17202.5 | 17308.8 | 17281.8 | 17180.6 | 17071.0 | 16949.6 |
| 20° | 9899.9 | 9872.9 | 10046.6 | 10284.4 | 12176.7 | 12677.6 | 12662.4 | 12345.4 | 11886.6 | 11798.9 |
| 22.5° | 6935.0 | 6985.6 | 6962.0 | 7198.1 | 7589.4 | 8970.6 | 8800.3 | 8478.2 | 8328.1 | 8230.2 |
| 25° | 4562.0 | 4543.5 | 4661.6 | 4732.4 | 5068.0 | 5236.7 | 5833.7 | 5713.9 | 5482.9 | 5508.2 |
| 27.5° | 2781.1 | 2804.7 | 2848.5 | 2909.3 | 3147.1 | 3093.1 | 3433.8 | 3479.3 | 3405.1 | 3325.8 |
| 30° | 1706.8 | 1723.6 | 1759.0 | 1802.9 | 1885.5 | 1826.5 | 1921.0 | 2084.5 | 2057.6 | 2001.9 |
| 32.5° | 1158.6 | 1160.3 | 1185.6 | 1202.5 | 1192.4 | 1136.7 | 1167.1 | 1322.2 | 1325.6 | 1320.5 |
| 35° | 833.1 | 833.1 | 856.8 | 870.2 | 841.6 | 796.0 | 801.1 | 897.2 | 939.4 | 947.8 |
| 37.5° | 575.1 | 576.8 | 617.3 | 657.7 | 625.7 | 613.9 | 593.7 | 657.7 | 725.2 | 735.3 |
| 40° | 436.8 | 435.1 | 455.4 | 485.7 | 489.1 | 467.2 | 473.9 | 514.4 | 583.5 | 592.0 |
| 42.5° | 354.2 | 355.9 | 366.0 | 362.6 | 364.3 | 393.0 | 403.1 | 421.6 | 485.7 | 500.9 |
| 45° | 298.5 | 300.2 | 305.3 | 288.4 | 281.6 | 325.5 | 339.0 | 349.1 | 403.1 | 421.6 |
| 47.5° | 246.2 | 249.6 | 254.7 | 236.1 | 232.7 | 261.4 | 285.0 | 295.1 | 342.4 | 362.6 |
| 50° | 177.1 | 180.5 | 199.0 | 188.9 | 199.0 | 205.8 | 237.8 | 253.0 | 285.0 | 312.0 |
| 52.5° | 128.2 | 131.5 | 136.6 | 138.3 | 163.6 | 167.0 | 190.6 | 214.2 | 229.4 | 259.7 |
| 55° | 101.2 | 104.6 | 101.2 | 97.8 | 119.7 | 138.3 | 146.7 | 172.0 | 183.8 | 219.2 |
| 57.5° | 57.3 | 60.7 | 65.8 | 75.9 | 79.3 | 106.3 | 114.7 | 136.6 | 146.7 | 180.5 |
| 60° | 10.1 | 11.8 | 18.6 | 45.5 | 55.7 | 67.5 | 86.0 | 104.6 | 118.1 | 141.7 |
| 62.5° | 1.7 | 1.7 | 3.4 | 10.1 | 32.0 | 47.2 | 62.4 | 74.2 | 86.0 | 107.9 |
| 65° | 0.0 | 0.0 | 1.7 | 3.4 | 8.4 | 27.0 | 33.7 | 43.8 | 59.0 | 77.6 |
| 67.5° | 0.0 | 0.0 | 1.7 | 3.4 | 5.1 | 10.1 | 15.2 | 27.0 | 33.7 | 52.3 |
| 70° | 0.0 | 0.0 | 1.7 | 3.4 | 5.1 | 6.7 | 8.4 | 11.8 | 20.2 | 32.0 |
| 72.5° | 0.0 | 0.0 | 1.7 | 3.4 | 5.1 | 6.7 | 8.4 | 10.1 | 10.1 | 20.2 |
| 75° | 0.0 | 0.0 | 1.7 | 3.4 | 5.1 | 8.4 | 10.1 | 10.1 | 8.4 | 8.4 |
| 77.5° | 0.0 | 0.0 | 1.7 | 3.4 | 6.7 | 10.1 | 11.8 | 10.1 | 6.7 | 6.7 |
| 80° | 0.0 | 0.0 | 3.4 | 5.1 | 8.4 | 11.8 | 15.2 | 11.8 | 6.7 | 3.4 |
| 82.5° | 0.0 | 0.0 | 3.4 | 6.7 | 8.4 | 13.5 | 18.6 | 15.2 | 6.7 | 3.4 |
| 85° | 0.0 | 0.0 | 1.7 | 5.1 | 10.1 | 13.5 | 18.6 | 13.5 | 6.7 | 1.7 |
| 87.5° | 0.0 | 0.0 | 1.7 | 1.7 | 3.4 | 5.1 | 10.1 | 8.4 | 3.4 | 1.7 |
| 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 52916.4 | 0° | 52916.4 | 52916.4 | 52916.4 | 52916.4 | 52916.4 | 52916.4 | 52916.4 | 52916.4 | 52916.4 |
| 51649.8 | 2.5° | 51946.6 | 52216.5 | 52272.1 | 52197.9 | 52305.9 | 52111.9 | 51963.5 | 51579.0 | 51347.9 |
| 48374.6 | 5° | 48686.6 | 48646.1 | 48927.8 | 49020.5 | 49008.7 | 48860.3 | 48652.8 | 48420.1 | 48194.1 |
| 43321.7 | 7.5° | 43591.6 | 43643.9 | 43900.2 | 44063.8 | 43981.2 | 43795.7 | 43652.3 | 43476.9 | 43325.1 |
| 37827.0 | 10° | 38172.8 | 37813.6 | 38132.3 | 38132.3 | 38353.2 | 37828.7 | 37877.6 | 37435.8 | 37456.0 |
| 31512.7 | 12.5° | 31620.6 | 31750.5 | 31802.8 | 31952.9 | 31694.8 | 31416.6 | 31075.9 | 31008.4 | 30797.6 |
| 23552.3 | 15° | 23891.3 | 24262.3 | 23943.6 | 24488.3 | 24225.2 | 23935.2 | 23882.9 | 23360.0 | 23525.3 |
| 17082.8 | 17.5° | 16998.5 | 17408.3 | 17536.5 | 17848.5 | 17609.0 | 17437.0 | 17219.4 | 17060.9 | 17049.1 |
| 11959.1 | 20° | 12053.6 | 12465.1 | 12559.5 | 12934.0 | 12907.0 | 12853.0 | 12669.2 | 12468.5 | 12250.9 |
| 8140.9 | 22.5° | 8264.0 | 8599.6 | 8913.3 | 9417.6 | 9409.1 | 9250.6 | 9232.0 | 8948.7 | 8953.8 |
| 5499.8 | 25° | 5557.1 | 5801.6 | 5875.9 | 6391.9 | 6449.3 | 6432.4 | 6336.3 | 6073.2 | 6172.7 |
| 3359.6 | 27.5° | 3362.9 | 3577.1 | 3828.4 | 4010.6 | 4182.6 | 4155.6 | 4059.5 | 3912.7 | 3848.6 |
| 2018.8 | 30° | 2072.7 | 2168.9 | 2261.6 | 2480.9 | 2583.8 | 2637.7 | 2592.2 | 2455.6 | 2465.7 |
| 1329.0 | 32.5° | 1357.7 | 1438.6 | 1506.1 | 1644.4 | 1698.3 | 1797.8 | 1779.3 | 1750.6 | 1716.9 |
| 956.3 | 35° | 990.0 | 1049.0 | 1094.6 | 1158.6 | 1227.8 | 1312.1 | 1325.6 | 1313.8 | 1300.3 |
| 738.7 | 37.5° | 755.6 | 816.3 | 868.6 | 895.5 | 949.5 | 1015.3 | 1052.4 | 1050.7 | 1040.6 |
| 602.1 | 40° | 613.9 | 659.4 | 706.7 | 742.1 | 779.2 | 828.1 | 873.6 | 878.7 | 878.7 |
| 506.0 | 42.5° | 512.7 | 551.5 | 598.7 | 635.8 | 662.8 | 708.3 | 755.6 | 758.9 | 755.6 |
| 428.4 | 45° | 438.5 | 472.2 | 517.8 | 561.6 | 583.5 | 617.3 | 662.8 | 672.9 | 666.2 |
| 367.7 | 47.5° | 381.2 | 411.5 | 450.3 | 497.5 | 521.1 | 551.5 | 593.7 | 605.5 | 603.8 |
| 317.1 | 50° | 327.2 | 362.6 | 401.4 | 440.2 | 470.5 | 499.2 | 539.7 | 553.2 | 548.1 |
| 269.8 | 52.5° | 288.4 | 320.4 | 354.2 | 396.3 | 431.8 | 457.0 | 489.1 | 512.7 | 506.0 |
| 227.7 | 55° | 241.2 | 280.0 | 315.4 | 350.8 | 394.6 | 421.6 | 452.0 | 480.7 | 473.9 |
| 192.3 | 57.5° | 209.1 | 241.2 | 281.6 | 313.7 | 357.5 | 389.6 | 419.9 | 450.3 | 448.6 |
| 156.8 | 60° | 175.4 | 209.1 | 247.9 | 281.6 | 322.1 | 357.5 | 387.9 | 421.6 | 425.0 |
| 118.1 | 62.5° | 138.3 | 178.8 | 212.5 | 251.3 | 291.8 | 330.6 | 357.5 | 391.3 | 396.3 |
| 89.4 | 65° | 104.6 | 146.7 | 183.8 | 220.9 | 261.4 | 303.6 | 327.2 | 355.9 | 360.9 |
| 65.8 | 67.5° | 77.6 | 113.0 | 156.8 | 190.6 | 232.7 | 273.2 | 295.1 | 318.8 | 327.2 |
| 40.5 | 70° | 59.0 | 86.0 | 131.5 | 163.6 | 207.4 | 239.5 | 263.1 | 283.3 | 290.1 |
| 27.0 | 72.5° | 37.1 | 67.5 | 106.3 | 140.0 | 178.8 | 207.4 | 224.3 | 236.1 | 246.2 |
| 15.2 | 75° | 25.3 | 52.3 | 86.0 | 119.7 | 148.4 | 170.3 | 185.5 | 195.6 | 204.1 |
| 6.7 | 77.5° | 15.2 | 40.5 | 70.8 | 99.5 | 118.1 | 134.9 | 150.1 | 156.8 | 161.9 |
| 5.1 | 80° | 8.4 | 30.4 | 59.0 | 81.0 | 92.8 | 104.6 | 116.4 | 124.8 | 128.2 |
| 3.4 | 82.5° | 5.1 | 23.6 | 47.2 | 62.4 | 67.5 | 79.3 | 91.1 | 96.1 | 96.1 |
| 1.7 | 85° | 3.4 | 16.9 | 32.0 | 45.5 | 48.9 | 57.3 | 60.7 | 64.1 | 67.5 |
| 1.7 | 87.5° | 3.4 | 10.1 | 20.2 | 25.3 | 27.0 | 30.4 | 32.0 | 35.4 | 38.8 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



| 180° |
|---------|
| 52916.4 |
| 51177.6 |
| 47941.1 |
| 42810.7 |
| 37258.7 |
| 30605.4 |
| 23360.0 |
| 16735.4 |
| 12156.5 |
| 8855.9 |
| 6015.8 |
| 3793.0 |
| 2421.8 |
| 1705.1 |
| 1295.3 |
| 1035.5 |
| 868.6 |
| 752.2 |
| 666.2 |
| 600.4 |
| 544.7 |
| 504.3 |
| 477.3 |
| 450.3 |
| 426.7 |
| 399.7 |
| 366.0 |
| 330.6 |
| 293.5 |
| 244.5 |
| 202.4 |
| 160.2 |
| 124.8 |
| 94.4 |
| 65.8 |
| 37.1 |
| 0.0 |

(END OF REPORT)