

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: P636637

Luminaire Tested: **IFLD-M-SA4B-935-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636637
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-935-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12074.8 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

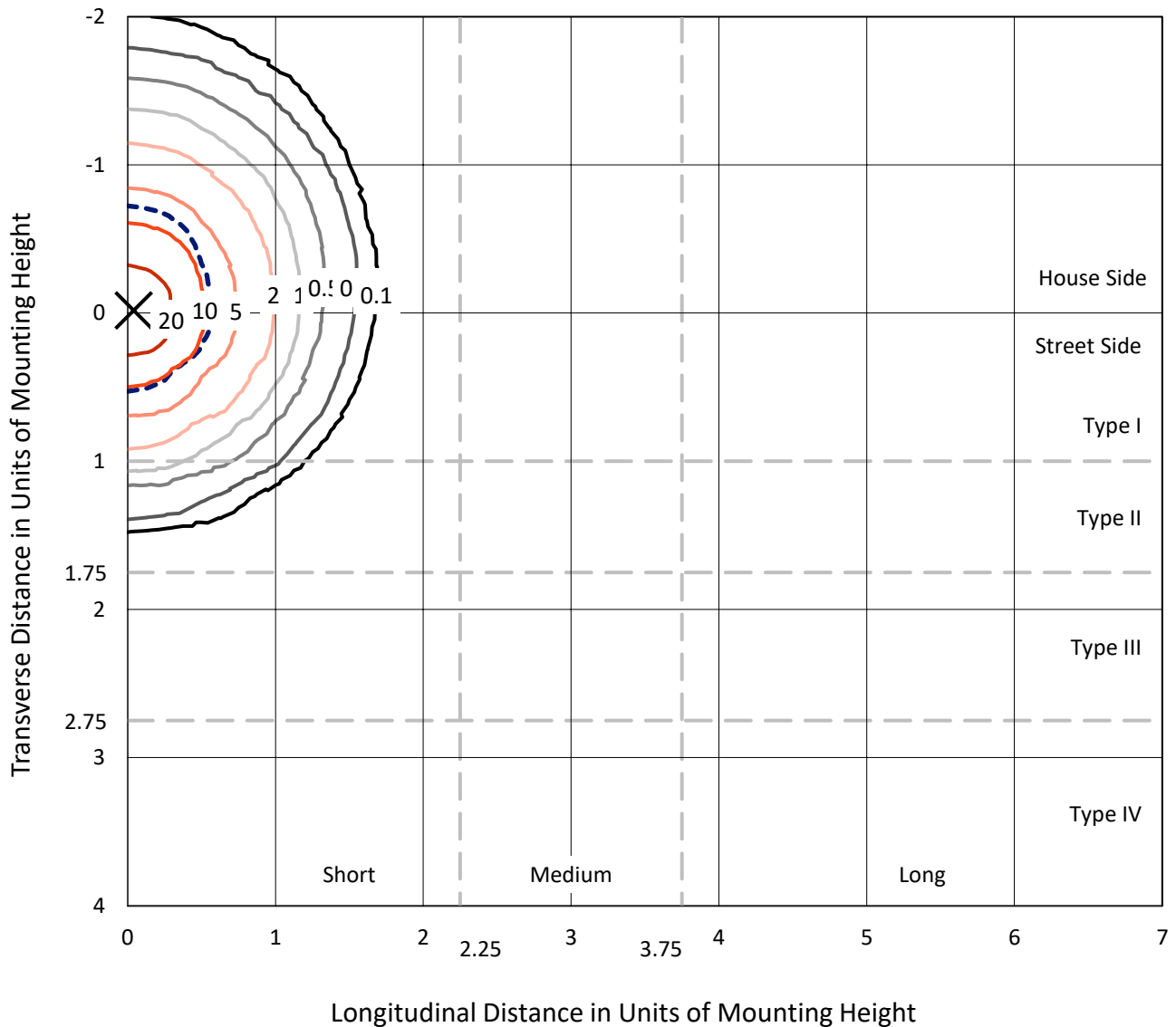
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

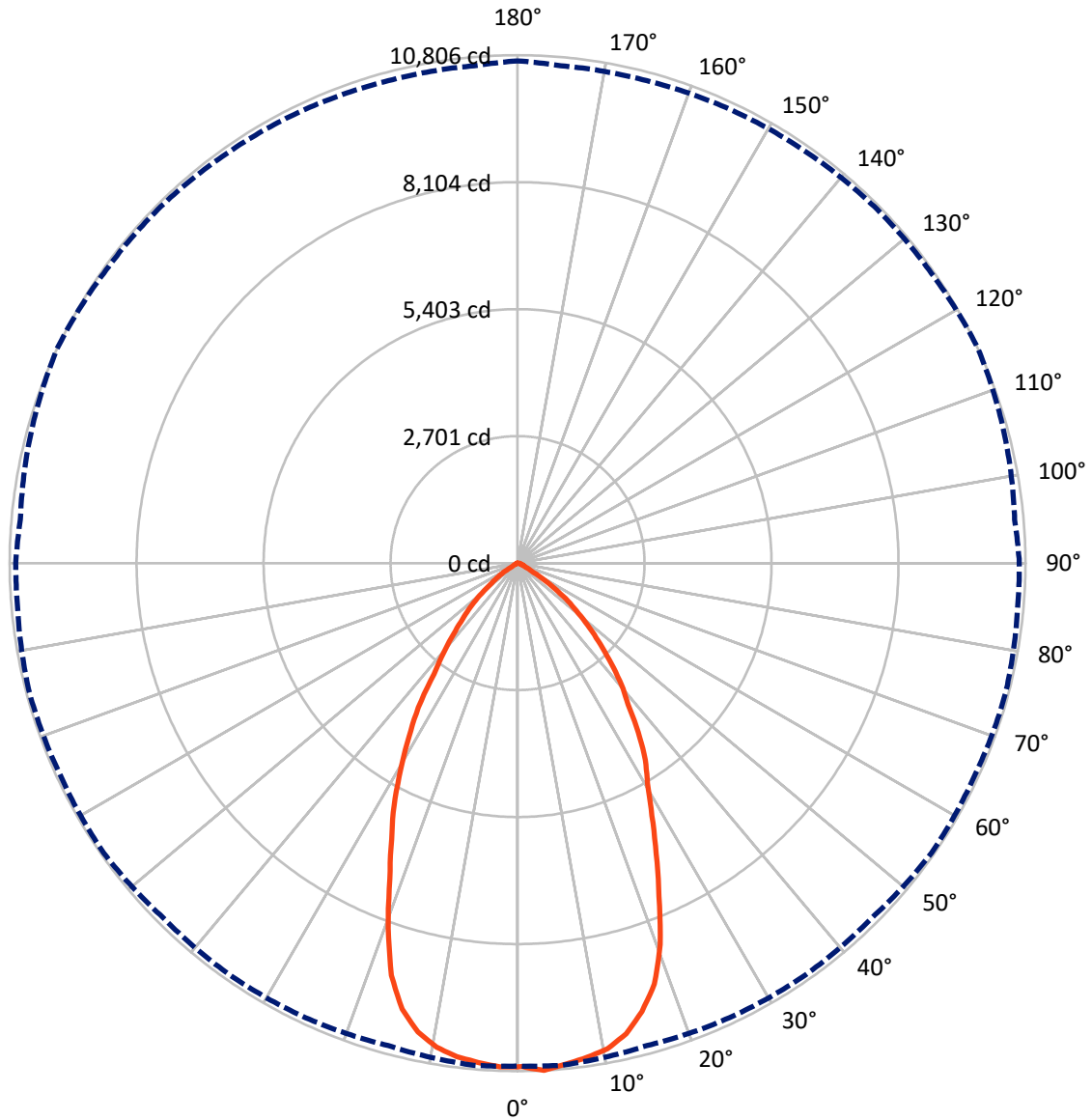
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.8 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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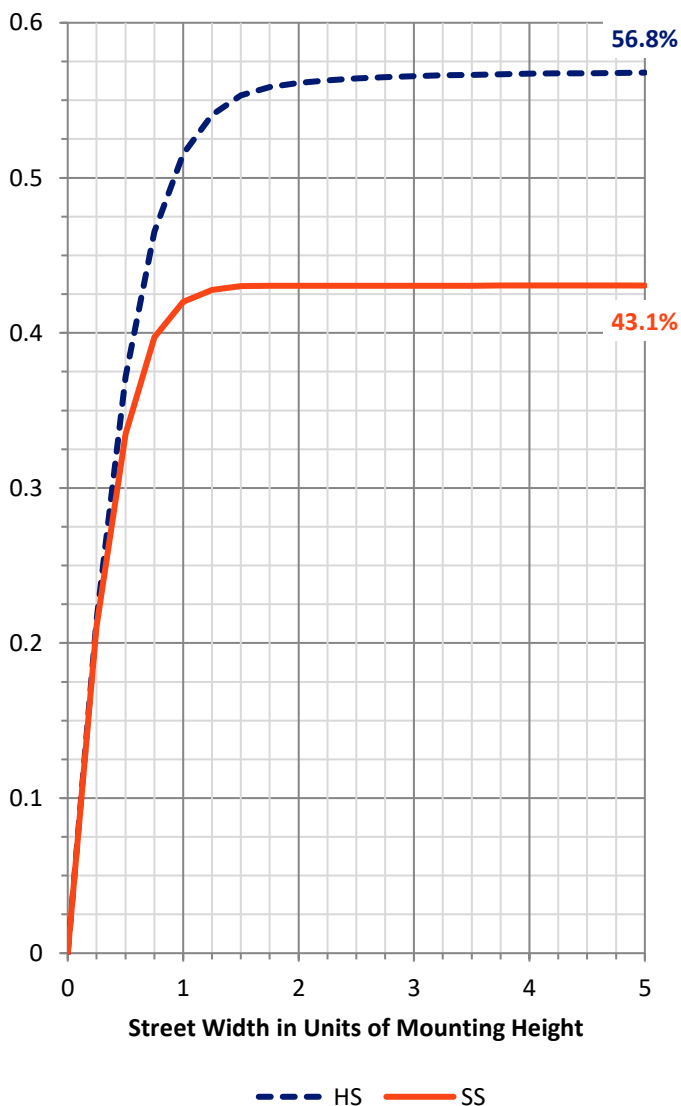
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6910.3 | 0.0 | 6910.3 |
| | % Fixture | 57.2 | 0.0 | 57.2 |
| Street Side | Lumens | 5164.6 | 0.0 | 5164.6 |
| | % Fixture | 42.8 | 0.0 | 42.8 |
| Total | Lumens | 12074.8 | 0.0 | 12074.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1009.1 | 8.4 |
| 10°-20° | 2675.5 | 22.2 |
| 20°-30° | 3060.3 | 25.3 |
| 30°-40° | 2622.6 | 21.7 |
| 40°-50° | 1734.1 | 14.4 |
| 50°-60° | 756.7 | 6.3 |
| 60°-70° | 148.7 | 1.2 |
| 70°-80° | 53.6 | 0.4 |
| 80°-90° | 14.3 | 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° | 12074.8 | 100.0 |
| 0°-180° | 12074.8 | 100.0 |



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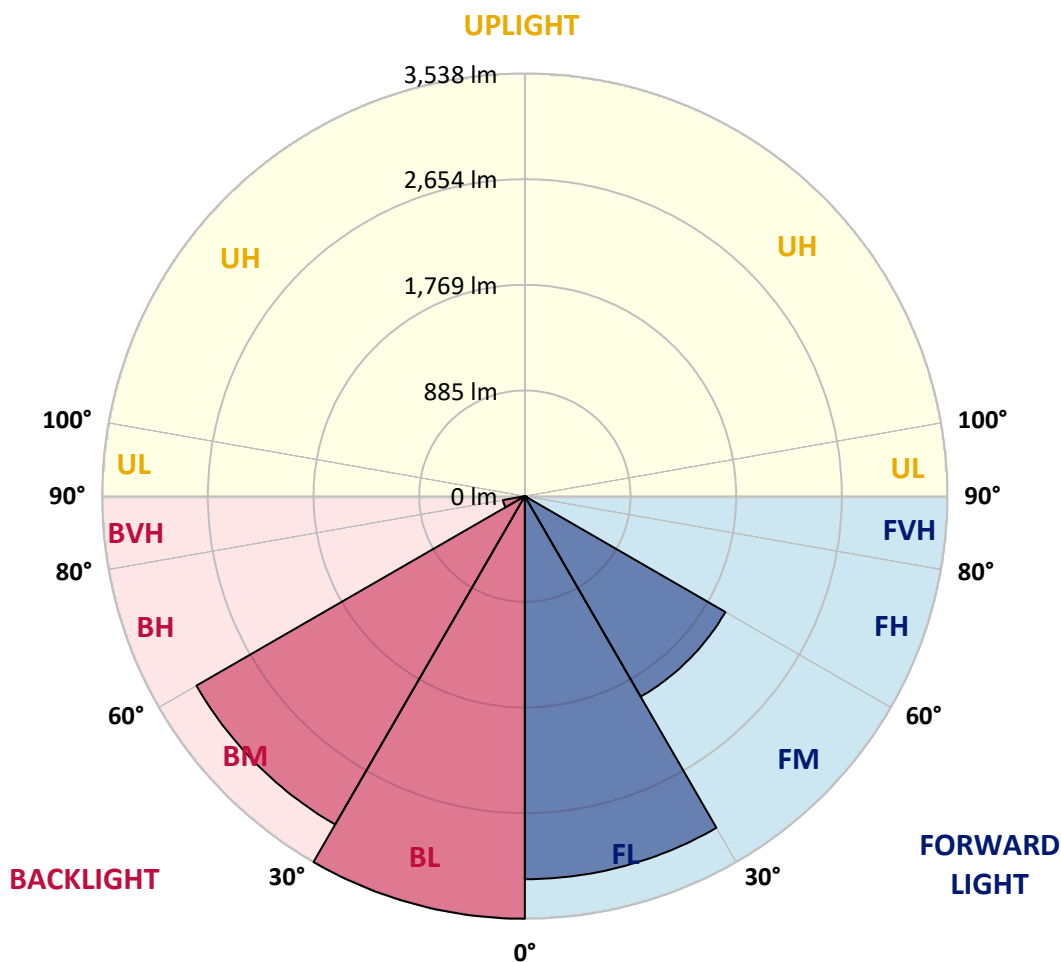
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 3206.8 | 26.6 | | | |
| FM (30°-60°) | 1939.0 | 16.1 | | | |
| FH (60°-80°) | 16.4 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 2.4 | 0.0 | | | G0/10 |
| BL (0°-30°) | 3538.0 | 29.3 | B4/5000 | | |
| BM (30°-60°) | 3174.4 | 26.3 | B3/5000 | | |
| BH (60°-80°) | 185.9 | 1.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 11.9 | 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° | 10713.4 | 10713.4 | 10713.4 | 10713.4 | 10713.4 | 10713.4 | 10713.4 | 10713.4 | 10713.4 | 10713.4 |
| 2.5° | 10698.0 | 10723.7 | 10626.2 | 10669.8 | 10687.8 | 10664.7 | 10749.4 | 10723.7 | 10744.2 | 10680.1 |
| 5° | 10698.0 | 10723.7 | 10610.8 | 10631.3 | 10636.4 | 10592.8 | 10685.2 | 10654.4 | 10657.0 | 10590.2 |
| 7.5° | 10631.3 | 10662.1 | 10559.4 | 10574.8 | 10577.4 | 10541.5 | 10621.0 | 10577.4 | 10562.0 | 10492.7 |
| 10° | 10451.6 | 10469.6 | 10377.2 | 10415.7 | 10451.6 | 10418.3 | 10487.6 | 10438.8 | 10438.8 | 10377.2 |
| 12.5° | 10166.7 | 10200.1 | 10097.4 | 10143.6 | 10174.4 | 10135.9 | 10215.5 | 10197.5 | 10200.1 | 10138.5 |
| 15° | 9648.2 | 9532.7 | 9655.9 | 9748.3 | 9750.9 | 9743.2 | 9817.6 | 9799.7 | 9812.5 | 9720.1 |
| 17.5° | 7127.7 | 7099.5 | 7243.2 | 8334.1 | 9145.2 | 9255.5 | 9268.4 | 9170.8 | 9127.2 | 9037.4 |
| 20° | 6604.1 | 6624.7 | 6593.9 | 6599.0 | 7238.1 | 8565.1 | 8485.5 | 8244.3 | 8133.9 | 8044.1 |
| 22.5° | 6221.7 | 6188.3 | 6167.8 | 6155.0 | 6172.9 | 7037.9 | 7610.3 | 7245.8 | 7186.8 | 7143.1 |
| 25° | 5805.9 | 5790.5 | 5764.8 | 5759.7 | 5749.4 | 5603.1 | 6427.0 | 6460.4 | 6365.4 | 6311.5 |
| 27.5° | 5418.3 | 5408.0 | 5379.8 | 5377.2 | 5259.2 | 4905.0 | 4994.8 | 5787.9 | 5762.3 | 5741.7 |
| 30° | 5005.1 | 4984.5 | 4969.1 | 4969.1 | 4612.4 | 4247.9 | 4101.6 | 5046.1 | 5046.1 | 5028.2 |
| 32.5° | 4555.9 | 4537.9 | 4543.1 | 4481.5 | 4055.4 | 3721.7 | 3490.7 | 4355.7 | 4625.2 | 4609.8 |
| 35° | 2784.9 | 2779.7 | 3300.8 | 3986.1 | 3485.6 | 3182.7 | 3167.3 | 3726.9 | 4119.6 | 4160.6 |
| 37.5° | 2479.4 | 2464.0 | 2471.7 | 2515.4 | 2985.1 | 2864.4 | 2859.3 | 2954.3 | 3506.1 | 3526.7 |
| 40° | 2225.3 | 2215.1 | 2207.4 | 2050.8 | 1901.9 | 2556.4 | 2538.5 | 2476.9 | 2995.3 | 3031.3 |
| 42.5° | 1984.1 | 1973.8 | 1973.8 | 1753.1 | 1511.8 | 2102.1 | 2109.8 | 2038.0 | 2525.6 | 2538.5 |
| 45° | 1735.1 | 1727.4 | 1683.8 | 1398.9 | 1329.6 | 1396.3 | 1747.9 | 1665.8 | 2004.6 | 2138.1 |
| 47.5° | 818.8 | 813.6 | 1178.1 | 1162.7 | 1157.6 | 1116.5 | 1334.7 | 1380.9 | 1591.4 | 1724.8 |
| 50° | 657.1 | 651.9 | 621.1 | 546.7 | 952.2 | 847.0 | 962.5 | 1062.6 | 1129.3 | 1252.6 |
| 52.5° | 544.1 | 539.0 | 474.8 | 420.9 | 528.7 | 618.6 | 574.9 | 711.0 | 708.4 | 841.9 |
| 55° | 356.8 | 331.1 | 364.5 | 343.9 | 277.2 | 449.2 | 438.9 | 539.0 | 526.2 | 641.7 |
| 57.5° | 7.7 | 7.7 | 18.0 | 195.1 | 174.5 | 189.9 | 251.5 | 308.0 | 346.5 | 379.9 |
| 60° | 2.6 | 2.6 | 5.1 | 10.3 | 71.9 | 79.6 | 97.5 | 112.9 | 159.1 | 197.6 |
| 62.5° | 0.0 | 0.0 | 2.6 | 5.1 | 10.3 | 41.1 | 46.2 | 53.9 | 74.4 | 102.7 |
| 65° | 0.0 | 0.0 | 0.0 | 2.6 | 5.1 | 10.3 | 15.4 | 33.4 | 46.2 | 59.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 2.6 | 2.6 | 5.1 | 10.3 | 15.4 | 20.5 | 41.1 |
| 70° | 0.0 | 0.0 | 0.0 | 2.6 | 2.6 | 5.1 | 7.7 | 10.3 | 15.4 | 20.5 |
| 72.5° | 0.0 | 0.0 | 0.0 | 2.6 | 2.6 | 7.7 | 5.1 | 7.7 | 10.3 | 12.8 |
| 75° | 0.0 | 0.0 | 0.0 | 2.6 | 2.6 | 2.6 | 5.1 | 7.7 | 7.7 | 10.3 |
| 77.5° | 0.0 | 0.0 | 0.0 | 2.6 | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 | 7.7 |
| 80° | 0.0 | 0.0 | 0.0 | 2.6 | 2.6 | 5.1 | 7.7 | 10.3 | 5.1 | 5.1 |
| 82.5° | 0.0 | 0.0 | 0.0 | 5.1 | 2.6 | 10.3 | 15.4 | 12.8 | 5.1 | 2.6 |
| 85° | 0.0 | 0.0 | 0.0 | 2.6 | 10.3 | 12.8 | 12.8 | 7.7 | 2.6 | 2.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.6 | 2.6 | 5.1 | 7.7 | 7.7 | 2.6 | 2.6 |
| 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 10713.4 | 0° | 10713.4 | 10713.4 | 10713.4 | 10713.4 | 10713.4 | 10713.4 | 10713.4 | 10713.4 | 10713.4 |
| 10674.9 | 2.5° | 10615.9 | 10716.0 | 10805.8 | 10749.4 | 10728.8 | 10687.8 | 10657.0 | 10623.6 | 10621.0 |
| 10582.5 | 5° | 10523.5 | 10618.5 | 10705.7 | 10639.0 | 10644.1 | 10623.6 | 10603.1 | 10595.4 | 10600.5 |
| 10487.6 | 7.5° | 10443.9 | 10523.5 | 10618.5 | 10562.0 | 10577.4 | 10564.6 | 10554.3 | 10538.9 | 10562.0 |
| 10364.4 | 10° | 10323.3 | 10395.2 | 10505.5 | 10451.6 | 10443.9 | 10431.1 | 10420.8 | 10392.6 | 10405.4 |
| 10141.0 | 12.5° | 10058.9 | 10148.7 | 10274.5 | 10212.9 | 10233.5 | 10197.5 | 10182.1 | 10164.1 | 10166.7 |
| 9753.5 | 15° | 9699.6 | 9768.9 | 9897.2 | 9848.4 | 9863.8 | 9840.7 | 9840.7 | 9840.7 | 9858.7 |
| 9050.2 | 17.5° | 9073.3 | 9214.5 | 9417.2 | 9355.6 | 9378.7 | 9383.9 | 9378.7 | 9396.7 | 9419.8 |
| 8049.2 | 20° | 8054.3 | 8295.6 | 8665.2 | 8785.8 | 8834.6 | 8837.2 | 8801.2 | 8844.9 | 8891.1 |
| 7112.3 | 22.5° | 7117.5 | 7371.6 | 7697.5 | 8028.7 | 8234.0 | 8223.7 | 8228.9 | 8257.1 | 8305.9 |
| 6278.2 | 25° | 6306.4 | 6550.2 | 6845.4 | 7140.6 | 7589.7 | 7682.1 | 7684.7 | 7710.4 | 7748.9 |
| 5708.4 | 27.5° | 5721.2 | 5816.2 | 6085.7 | 6383.4 | 6865.9 | 7161.1 | 7145.7 | 7168.8 | 7209.9 |
| 4994.8 | 30° | 5015.3 | 5379.8 | 5441.4 | 5623.6 | 6039.5 | 6581.0 | 6583.6 | 6609.3 | 6650.3 |
| 4573.9 | 32.5° | 4561.0 | 4802.3 | 4992.2 | 4997.4 | 5351.6 | 5908.6 | 6018.9 | 6044.6 | 6072.8 |
| 4137.5 | 35° | 4135.0 | 4163.2 | 4419.9 | 4491.7 | 4697.1 | 5248.9 | 5444.0 | 5459.4 | 5505.6 |
| 3519.0 | 37.5° | 3578.0 | 3744.8 | 3816.7 | 4073.4 | 4083.6 | 4530.2 | 4917.8 | 4902.4 | 4938.3 |
| 3028.7 | 40° | 3067.2 | 3226.3 | 3408.6 | 3596.0 | 3621.6 | 3955.3 | 4383.9 | 4399.3 | 4414.7 |
| 2512.8 | 42.5° | 2533.3 | 2736.1 | 2923.5 | 3049.2 | 3223.8 | 3416.3 | 3824.4 | 3896.3 | 3932.2 |
| 2153.5 | 45° | 2192.0 | 2248.4 | 2471.7 | 2656.5 | 2833.6 | 2923.5 | 3305.9 | 3436.8 | 3459.9 |
| 1704.3 | 47.5° | 1727.4 | 1917.3 | 2068.8 | 2225.3 | 2446.1 | 2525.6 | 2802.8 | 2985.1 | 3003.0 |
| 1265.4 | 50° | 1334.7 | 1470.7 | 1678.6 | 1819.8 | 2076.5 | 2120.1 | 2310.0 | 2546.2 | 2569.3 |
| 847.0 | 52.5° | 954.8 | 1139.6 | 1342.4 | 1478.4 | 1724.8 | 1781.3 | 1922.5 | 2148.3 | 2163.7 |
| 649.4 | 55° | 685.3 | 805.9 | 972.8 | 1167.9 | 1347.5 | 1473.3 | 1570.8 | 1786.4 | 1807.0 |
| 426.1 | 57.5° | 467.1 | 580.1 | 649.4 | 844.4 | 952.2 | 1088.3 | 1167.9 | 1332.1 | 1347.5 |
| 202.8 | 60° | 223.3 | 277.2 | 331.1 | 428.6 | 497.9 | 613.4 | 664.8 | 731.5 | 749.5 |
| 123.2 | 62.5° | 143.7 | 169.4 | 215.6 | 256.7 | 323.4 | 395.3 | 415.8 | 472.3 | 492.8 |
| 77.0 | 65° | 95.0 | 120.6 | 169.4 | 179.7 | 246.4 | 302.9 | 328.5 | 369.6 | 392.7 |
| 46.2 | 67.5° | 53.9 | 84.7 | 125.8 | 148.9 | 195.1 | 249.0 | 277.2 | 313.1 | 333.7 |
| 30.8 | 70° | 35.9 | 69.3 | 100.1 | 123.2 | 154.0 | 200.2 | 236.1 | 266.9 | 279.8 |
| 15.4 | 72.5° | 20.5 | 43.6 | 69.3 | 97.5 | 123.2 | 166.8 | 200.2 | 225.9 | 148.9 |
| 10.3 | 75° | 12.8 | 33.4 | 59.0 | 82.1 | 102.7 | 133.5 | 161.7 | 159.1 | 66.7 |
| 7.7 | 77.5° | 10.3 | 25.7 | 51.3 | 69.3 | 84.7 | 92.4 | 115.5 | 130.9 | 51.3 |
| 5.1 | 80° | 7.7 | 20.5 | 46.2 | 59.0 | 33.4 | 66.7 | 89.8 | 97.5 | 35.9 |
| 5.1 | 82.5° | 5.1 | 12.8 | 38.5 | 41.1 | 23.1 | 48.8 | 71.9 | 64.2 | 25.7 |
| 2.6 | 85° | 2.6 | 7.7 | 12.8 | 23.1 | 20.5 | 23.1 | 18.0 | 25.7 | 18.0 |
| 2.6 | 87.5° | 2.6 | 5.1 | 10.3 | 10.3 | 10.3 | 7.7 | 10.3 | 10.3 | 10.3 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



| 180° |
|---------|
| 10713.4 |
| 10682.6 |
| 10664.7 |
| 10626.2 |
| 10467.0 |
| 10241.2 |
| 9866.4 |
| 9496.8 |
| 8921.9 |
| 8313.6 |
| 7815.6 |
| 7248.4 |
| 6722.2 |
| 6137.0 |
| 5554.3 |
| 4982.0 |
| 4463.5 |
| 3983.5 |
| 3516.4 |
| 3046.7 |
| 2602.6 |
| 2192.0 |
| 1824.9 |
| 1378.3 |
| 770.0 |
| 497.9 |
| 392.7 |
| 331.1 |
| 277.2 |
| 120.6 |
| 66.7 |
| 51.3 |
| 38.5 |
| 25.7 |
| 18.0 |
| 10.3 |
| 0.0 |

(END OF REPORT)