

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: P636565

Luminaire Tested: **IFLD-S-SA2C-927-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636565  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-927-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (32) 2700K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7164.7 lumens  
Efficiency: N/A  
Efficacy: 66.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

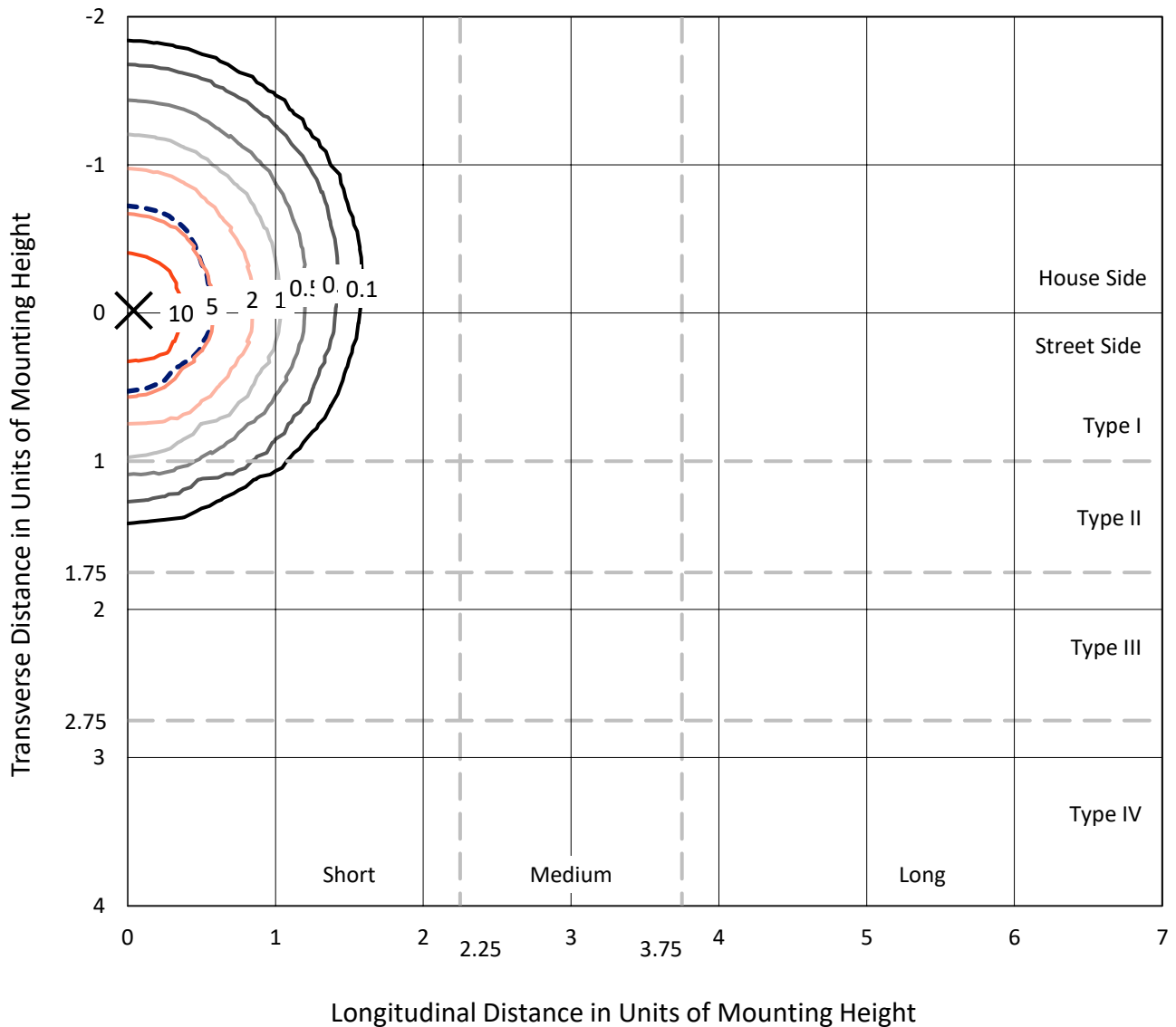
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

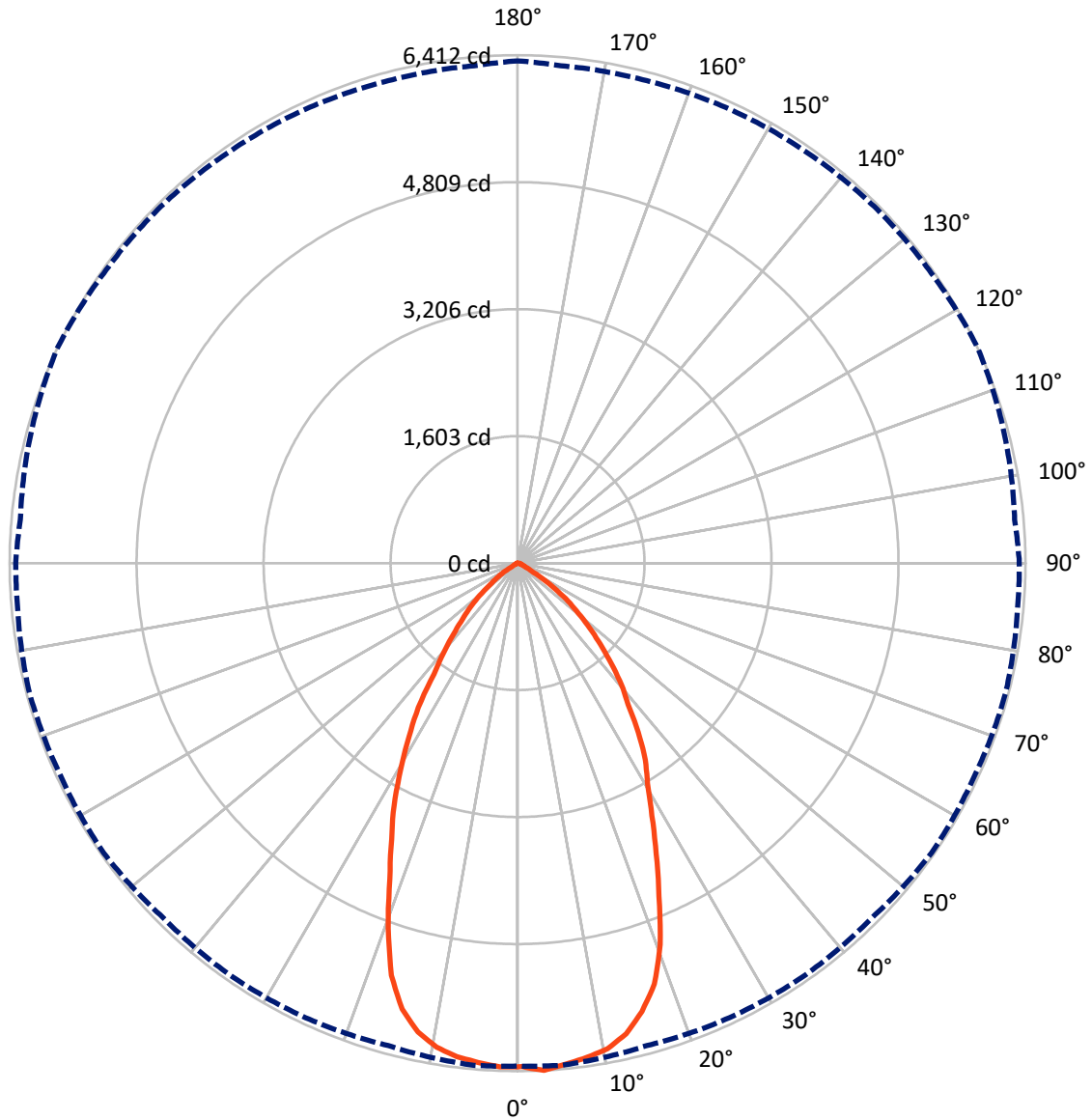
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.9 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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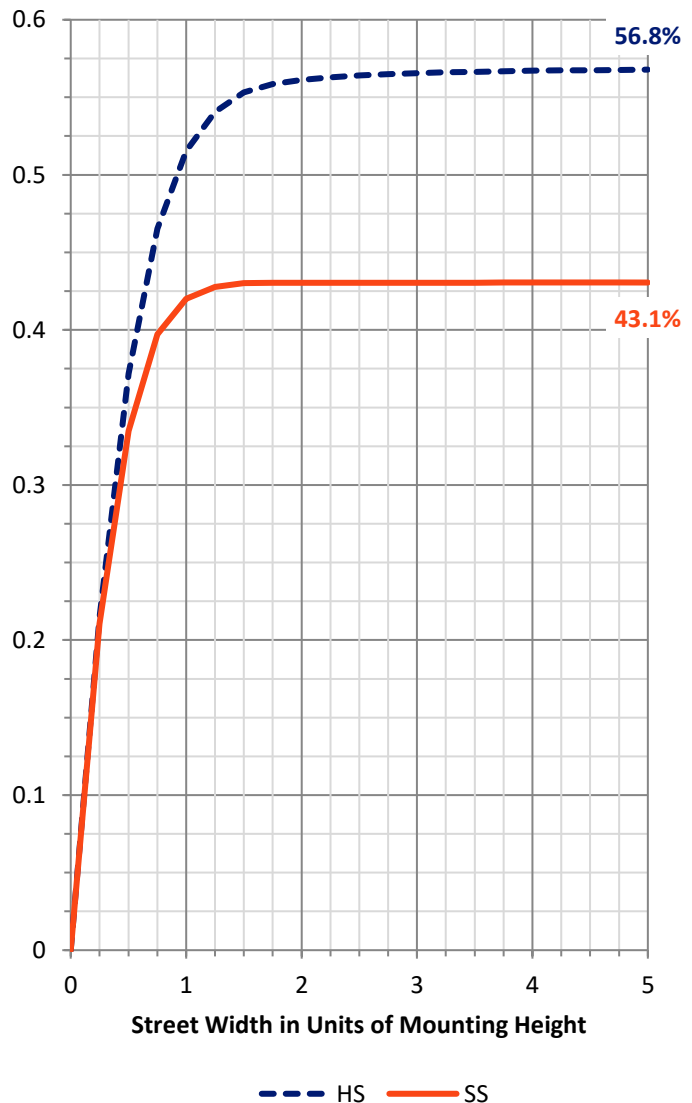
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4100.3   | 0.0    | 4100.3 |
|                    | % Fixture | 57.2     | 0.0    | 57.2   |
| <b>Street Side</b> | Lumens    | 3064.4   | 0.0    | 3064.4 |
|                    | % Fixture | 42.8     | 0.0    | 42.8   |
| <b>Total</b>       | Lumens    | 7164.7   | 0.0    | 7164.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 598.7  | 8.4       |
| 10°-20°   | 1587.5 | 22.2      |
| 20°-30°   | 1815.8 | 25.3      |
| 30°-40°   | 1556.1 | 21.7      |
| 40°-50°   | 1029.0 | 14.4      |
| 50°-60°   | 449.0  | 6.3       |
| 60°-70°   | 88.2   | 1.2       |
| 70°-80°   | 31.8   | 0.4       |
| 80°-90°   | 8.5    | 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°    | 7164.7 | 100.0     |
| 0°-180°   | 7164.7 | 100.0     |



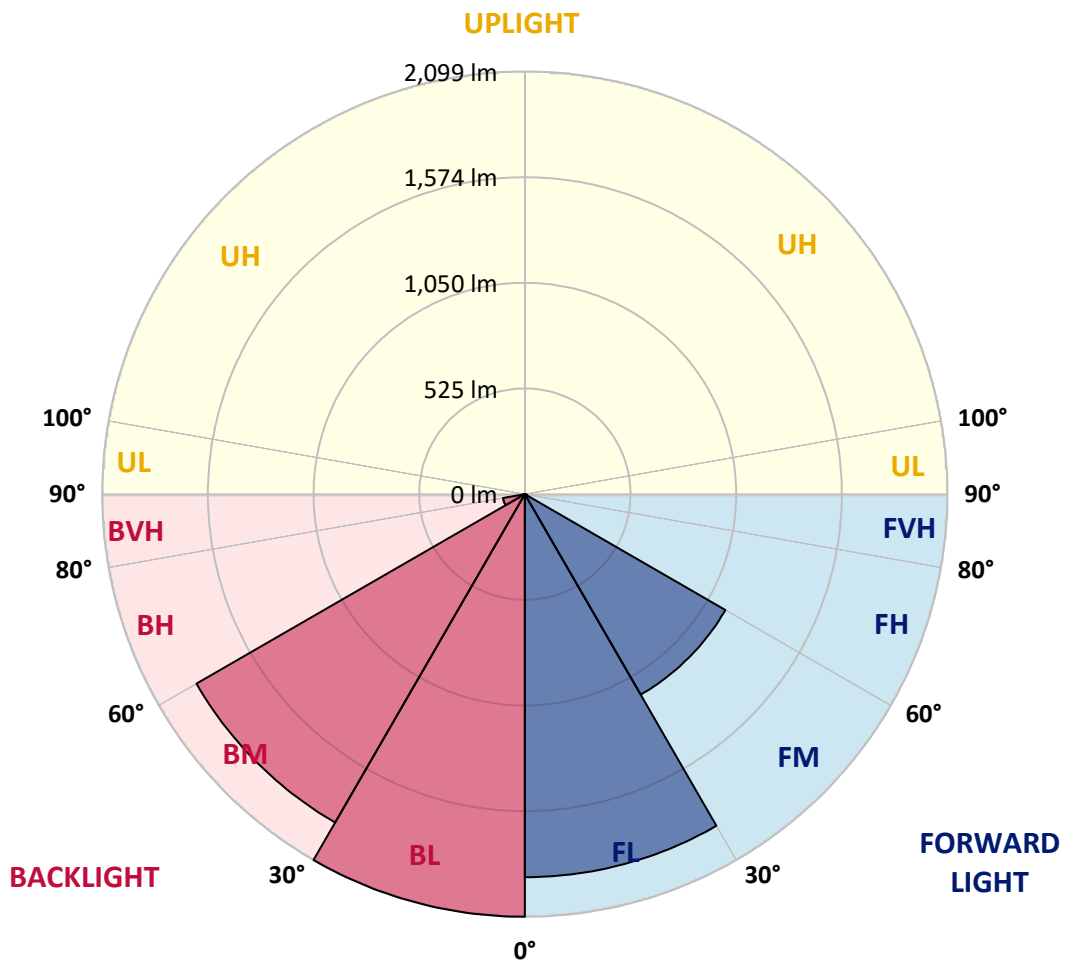
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 1902.8 | 26.6      |                         |      |        |
| FM (30°-60°)   | 1150.5 | 16.1      |                         |      |        |
| FH (60°-80°)   | 9.7    | 0.1       |                         |      | G0/660 |
| FVH (80°-90°)  | 1.4    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 2099.3 | 29.3      | B3/2500                 |      |        |
| BM (30°-60°)   | 1883.6 | 26.3      | B2/2500                 |      |        |
| BH (60°-80°)   | 110.3  | 1.5       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 7.1    | 0.1       |                         |      | G0/10  |
| 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°    | 6356.9 | 6356.9 | 6356.9 | 6356.9 | 6356.9 | 6356.9 | 6356.9 | 6356.9 | 6356.9 | 6356.9 |
| 2.5°  | 6347.8 | 6363.0 | 6305.1 | 6331.0 | 6341.7 | 6328.0 | 6378.2 | 6363.0 | 6375.2 | 6337.1 |
| 5°    | 6347.8 | 6363.0 | 6296.0 | 6308.2 | 6311.2 | 6285.3 | 6340.1 | 6321.9 | 6323.4 | 6283.8 |
| 7.5°  | 6308.2 | 6326.4 | 6265.5 | 6274.7 | 6276.2 | 6254.9 | 6302.1 | 6276.2 | 6267.0 | 6225.9 |
| 10°   | 6201.6 | 6212.2 | 6157.4 | 6180.2 | 6201.6 | 6181.8 | 6222.9 | 6193.9 | 6193.9 | 6157.4 |
| 12.5° | 6032.5 | 6052.3 | 5991.4 | 6018.8 | 6037.1 | 6014.2 | 6061.4 | 6050.8 | 6052.3 | 6015.7 |
| 15°   | 5724.9 | 5656.3 | 5729.4 | 5784.3 | 5785.8 | 5781.2 | 5825.4 | 5814.7 | 5822.3 | 5767.5 |
| 17.5° | 4229.3 | 4212.5 | 4297.8 | 4945.1 | 5426.4 | 5491.8 | 5499.5 | 5441.6 | 5415.7 | 5362.4 |
| 20°   | 3918.6 | 3930.8 | 3912.5 | 3915.6 | 4294.8 | 5082.2 | 5035.0 | 4891.8 | 4826.3 | 4773.0 |
| 22.5° | 3691.7 | 3671.9 | 3659.7 | 3652.1 | 3662.8 | 4176.0 | 4515.6 | 4299.4 | 4264.3 | 4238.4 |
| 25°   | 3445.0 | 3435.8 | 3420.6 | 3417.6 | 3411.5 | 3324.7 | 3813.5 | 3833.3 | 3777.0 | 3745.0 |
| 27.5° | 3215.0 | 3208.9 | 3192.2 | 3190.6 | 3120.6 | 2910.4 | 2963.7 | 3434.3 | 3419.1 | 3406.9 |
| 30°   | 2969.8 | 2957.6 | 2948.5 | 2948.5 | 2736.8 | 2520.5 | 2433.7 | 2994.2 | 2994.2 | 2983.5 |
| 32.5° | 2703.3 | 2692.6 | 2695.7 | 2659.1 | 2406.3 | 2208.3 | 2071.2 | 2584.5 | 2744.4 | 2735.3 |
| 35°   | 1652.4 | 1649.4 | 1958.5 | 2365.2 | 2068.2 | 1888.5 | 1879.4 | 2211.4 | 2444.4 | 2468.7 |
| 37.5° | 1471.2 | 1462.1 | 1466.6 | 1492.5 | 1771.2 | 1699.6 | 1696.6 | 1752.9 | 2080.4 | 2092.6 |
| 40°   | 1320.4 | 1314.3 | 1309.8 | 1216.9 | 1128.5 | 1516.9 | 1506.2 | 1469.7 | 1777.3 | 1798.6 |
| 42.5° | 1177.3 | 1171.2 | 1171.2 | 1040.2 | 897.0  | 1247.3 | 1251.9 | 1209.2 | 1498.6 | 1506.2 |
| 45°   | 1029.5 | 1025.0 | 999.1  | 830.0  | 788.9  | 828.5  | 1037.1 | 988.4  | 1189.4 | 1268.6 |
| 47.5° | 485.8  | 482.8  | 699.0  | 689.9  | 686.9  | 662.5  | 791.9  | 819.4  | 944.2  | 1023.4 |
| 50°   | 389.9  | 386.8  | 368.6  | 324.4  | 565.0  | 502.6  | 571.1  | 630.5  | 670.1  | 743.2  |
| 52.5° | 322.9  | 319.8  | 281.8  | 249.8  | 313.7  | 367.0  | 341.1  | 421.9  | 420.3  | 499.5  |
| 55°   | 211.7  | 196.5  | 216.3  | 204.1  | 164.5  | 266.5  | 260.4  | 319.8  | 312.2  | 380.7  |
| 57.5° | 4.6    | 4.6    | 10.7   | 115.7  | 103.6  | 112.7  | 149.3  | 182.8  | 205.6  | 225.4  |
| 60°   | 1.5    | 1.5    | 3.0    | 6.1    | 42.6   | 47.2   | 57.9   | 67.0   | 94.4   | 117.3  |
| 62.5° | 0.0    | 0.0    | 1.5    | 3.0    | 6.1    | 24.4   | 27.4   | 32.0   | 44.2   | 60.9   |
| 65°   | 0.0    | 0.0    | 0.0    | 1.5    | 3.0    | 6.1    | 9.1    | 19.8   | 27.4   | 35.0   |
| 67.5° | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 3.0    | 6.1    | 9.1    | 12.2   | 24.4   |
| 70°   | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 3.0    | 4.6    | 6.1    | 9.1    | 12.2   |
| 72.5° | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 4.6    | 3.0    | 4.6    | 6.1    | 7.6    |
| 75°   | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 3.0    | 4.6    | 4.6    | 6.1    |
| 77.5° | 0.0    | 0.0    | 0.0    | 1.5    | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    | 4.6    |
| 80°   | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 3.0    | 4.6    | 6.1    | 3.0    | 3.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 3.0    | 1.5    | 6.1    | 9.1    | 7.6    | 3.0    | 1.5    |
| 85°   | 0.0    | 0.0    | 0.0    | 1.5    | 6.1    | 7.6    | 7.6    | 4.6    | 1.5    | 1.5    |
| 87.5° | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 3.0    | 4.6    | 4.6    | 1.5    | 1.5    |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6356.9 | 0°    | 6356.9 | 6356.9 | 6356.9 | 6356.9 | 6356.9 | 6356.9 | 6356.9 | 6356.9 | 6356.9 |
| 6334.0 | 2.5°  | 6299.0 | 6358.4 | 6411.7 | 6378.2 | 6366.0 | 6341.7 | 6323.4 | 6303.6 | 6302.1 |
| 6279.2 | 5°    | 6244.2 | 6300.5 | 6352.3 | 6312.7 | 6315.8 | 6303.6 | 6291.4 | 6286.8 | 6289.9 |
| 6222.9 | 7.5°  | 6197.0 | 6244.2 | 6300.5 | 6267.0 | 6276.2 | 6268.6 | 6262.5 | 6253.3 | 6267.0 |
| 6149.8 | 10°   | 6125.4 | 6168.0 | 6233.5 | 6201.6 | 6197.0 | 6189.4 | 6183.3 | 6166.5 | 6174.1 |
| 6017.3 | 12.5° | 5968.5 | 6021.8 | 6096.5 | 6059.9 | 6072.1 | 6050.8 | 6041.6 | 6031.0 | 6032.5 |
| 5787.3 | 15°   | 5755.3 | 5796.4 | 5872.6 | 5843.7 | 5852.8 | 5839.1 | 5839.1 | 5839.1 | 5849.7 |
| 5370.0 | 17.5° | 5383.7 | 5467.5 | 5587.8 | 5551.2 | 5564.9 | 5568.0 | 5564.9 | 5575.6 | 5589.3 |
| 4776.0 | 20°   | 4779.1 | 4922.3 | 5141.6 | 5213.1 | 5242.1 | 5243.6 | 5222.3 | 5248.2 | 5275.6 |
| 4220.2 | 22.5° | 4223.2 | 4374.0 | 4567.4 | 4763.9 | 4885.7 | 4879.6 | 4882.7 | 4899.4 | 4928.3 |
| 3725.2 | 25°   | 3741.9 | 3886.6 | 4061.8 | 4236.9 | 4503.4 | 4558.3 | 4559.8 | 4575.0 | 4597.9 |
| 3387.1 | 27.5° | 3394.7 | 3451.1 | 3611.0 | 3787.6 | 4074.0 | 4249.1 | 4240.0 | 4253.7 | 4278.0 |
| 2963.7 | 30°   | 2975.9 | 3192.2 | 3228.7 | 3336.8 | 3583.6 | 3904.9 | 3906.4 | 3921.7 | 3946.0 |
| 2713.9 | 32.5° | 2706.3 | 2849.5 | 2962.2 | 2965.2 | 3175.4 | 3505.9 | 3571.4 | 3586.6 | 3603.4 |
| 2455.0 | 35°   | 2453.5 | 2470.3 | 2622.6 | 2665.2 | 2787.0 | 3114.5 | 3230.2 | 3239.4 | 3266.8 |
| 2088.0 | 37.5° | 2123.0 | 2222.0 | 2264.7 | 2417.0 | 2423.1 | 2688.0 | 2918.0 | 2908.9 | 2930.2 |
| 1797.1 | 40°   | 1820.0 | 1914.4 | 2022.5 | 2133.7 | 2148.9 | 2346.9 | 2601.2 | 2610.4 | 2619.5 |
| 1491.0 | 42.5° | 1503.2 | 1623.5 | 1734.7 | 1809.3 | 1912.9 | 2027.1 | 2269.2 | 2311.9 | 2333.2 |
| 1277.8 | 45°   | 1300.6 | 1334.1 | 1466.6 | 1576.3 | 1681.4 | 1734.7 | 1961.6 | 2039.3 | 2053.0 |
| 1011.3 | 47.5° | 1025.0 | 1137.7 | 1227.5 | 1320.4 | 1451.4 | 1498.6 | 1663.1 | 1771.2 | 1781.9 |
| 750.8  | 50°   | 791.9  | 872.7  | 996.0  | 1079.8 | 1232.1 | 1258.0 | 1370.7 | 1510.8 | 1524.5 |
| 502.6  | 52.5° | 566.5  | 676.2  | 796.5  | 877.2  | 1023.4 | 1056.9 | 1140.7 | 1274.7 | 1283.9 |
| 385.3  | 55°   | 406.6  | 478.2  | 577.2  | 693.0  | 799.6  | 874.2  | 932.1  | 1060.0 | 1072.2 |
| 252.8  | 57.5° | 277.2  | 344.2  | 385.3  | 501.1  | 565.0  | 645.7  | 693.0  | 790.4  | 799.6  |
| 120.3  | 60°   | 132.5  | 164.5  | 196.5  | 254.3  | 295.5  | 364.0  | 394.5  | 434.0  | 444.7  |
| 73.1   | 62.5° | 85.3   | 100.5  | 127.9  | 152.3  | 191.9  | 234.5  | 246.7  | 280.2  | 292.4  |
| 45.7   | 65°   | 56.4   | 71.6   | 100.5  | 106.6  | 146.2  | 179.7  | 194.9  | 219.3  | 233.0  |
| 27.4   | 67.5° | 32.0   | 50.3   | 74.6   | 88.3   | 115.7  | 147.7  | 164.5  | 185.8  | 198.0  |
| 18.3   | 70°   | 21.3   | 41.1   | 59.4   | 73.1   | 91.4   | 118.8  | 140.1  | 158.4  | 166.0  |
| 9.1    | 72.5° | 12.2   | 25.9   | 41.1   | 57.9   | 73.1   | 99.0   | 118.8  | 134.0  | 88.3   |
| 6.1    | 75°   | 7.6    | 19.8   | 35.0   | 48.7   | 60.9   | 79.2   | 95.9   | 94.4   | 39.6   |
| 4.6    | 77.5° | 6.1    | 15.2   | 30.5   | 41.1   | 50.3   | 54.8   | 68.5   | 77.7   | 30.5   |
| 3.0    | 80°   | 4.6    | 12.2   | 27.4   | 35.0   | 19.8   | 39.6   | 53.3   | 57.9   | 21.3   |
| 3.0    | 82.5° | 3.0    | 7.6    | 22.8   | 24.4   | 13.7   | 28.9   | 42.6   | 38.1   | 15.2   |
| 1.5    | 85°   | 1.5    | 4.6    | 7.6    | 13.7   | 12.2   | 13.7   | 10.7   | 15.2   | 10.7   |
| 1.5    | 87.5° | 1.5    | 3.0    | 6.1    | 6.1    | 6.1    | 4.6    | 6.1    | 6.1    | 6.1    |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |





180°  
6356.9  
6338.6  
6328.0  
6305.1  
6210.7  
6076.7  
5854.3  
5635.0  
5293.9  
4932.9  
4637.5  
4300.9  
3988.7  
3641.4  
3295.7  
2956.1  
2648.5  
2363.7  
2086.5  
1807.8  
1544.3  
1300.6  
1082.8  
817.8  
456.9  
295.5  
233.0  
196.5  
164.5  
71.6  
39.6  
30.5  
22.8  
15.2  
10.7  
6.1  
0.0

(END OF REPORT)