

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: P636589

Luminaire Tested: **IFLD-L-SA8B-927-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636589
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-927-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20515.4 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

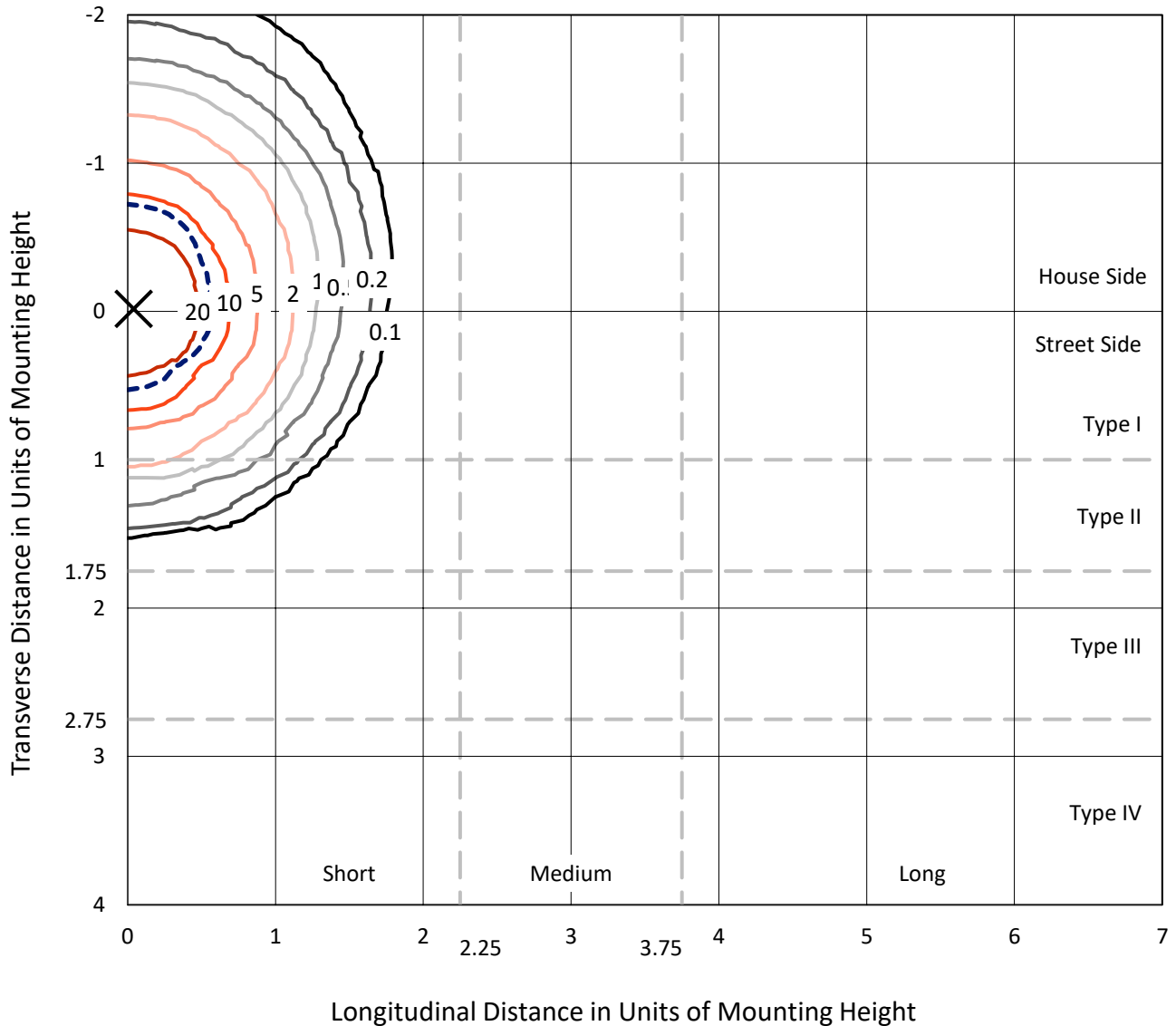
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

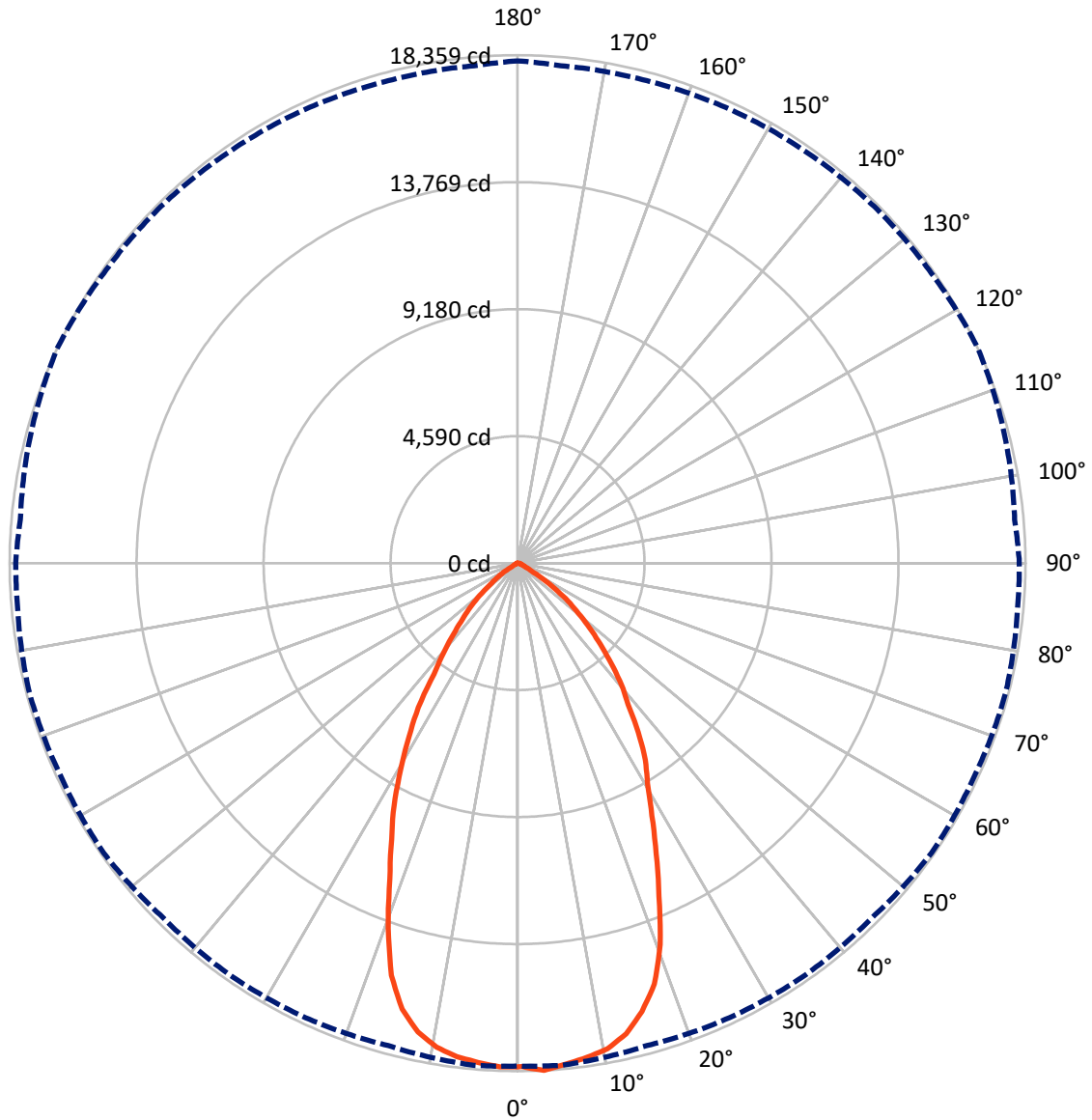
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 45.5 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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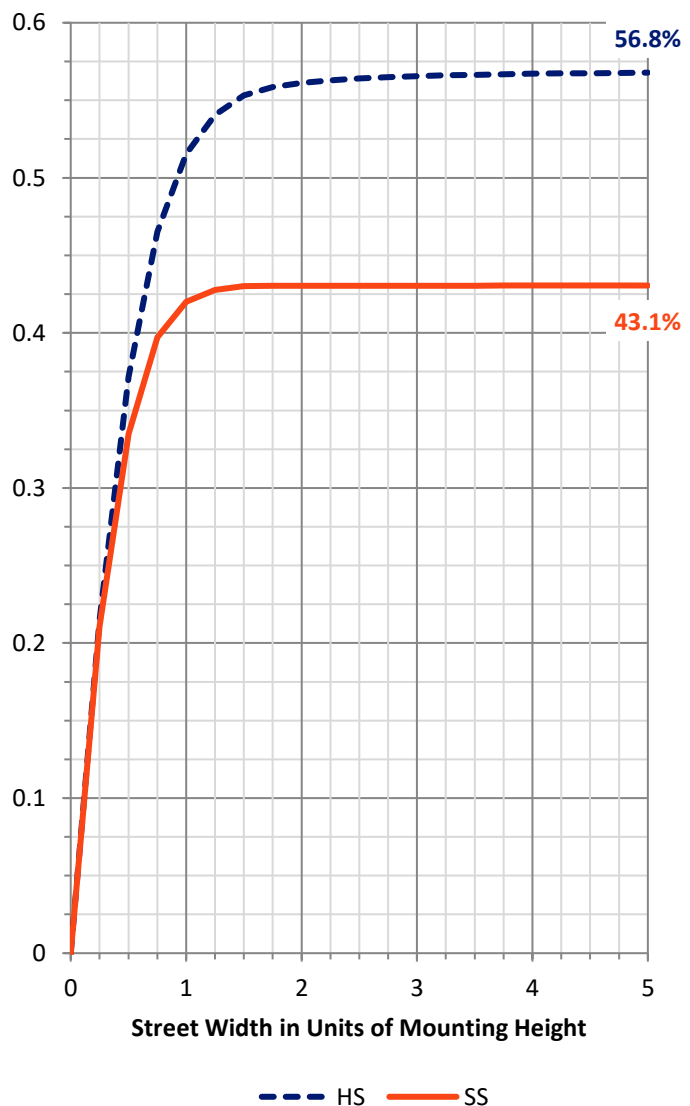
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11740.7 | 0.0 | 11740.7 |
| | % Fixture | 57.2 | 0.0 | 57.2 |
| Street Side | Lumens | 8774.7 | 0.0 | 8774.7 |
| | % Fixture | 42.8 | 0.0 | 42.8 |
| Total | Lumens | 20515.4 | 0.0 | 20515.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1714.4 | 8.4 |
| 10°-20° | 4545.8 | 22.2 |
| 20°-30° | 5199.5 | 25.3 |
| 30°-40° | 4455.8 | 21.7 |
| 40°-50° | 2946.3 | 14.4 |
| 50°-60° | 1285.7 | 6.3 |
| 60°-70° | 252.6 | 1.2 |
| 70°-80° | 91.1 | 0.4 |
| 80°-90° | 24.2 | 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° | 20515.4 | 100.0 |
| 0°-180° | 20515.4 | 100.0 |



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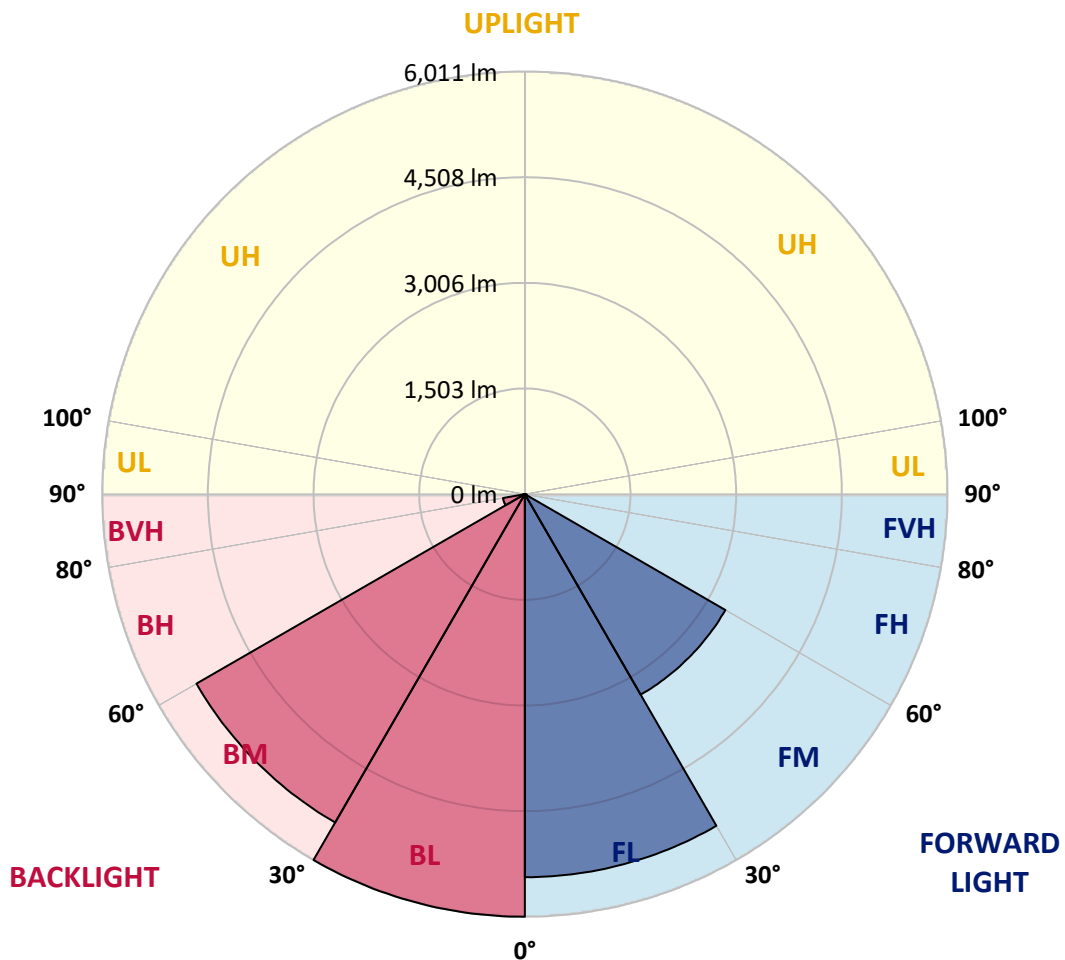
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 5448.5 | 26.6 | | | |
| FM (30°-60°) | 3294.3 | 16.1 | | | |
| FH (60°-80°) | 27.9 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 4.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 6011.2 | 29.3 | B5 | | |
| BM (30°-60°) | 5393.4 | 26.3 | B4/8500 | | |
| BH (60°-80°) | 315.8 | 1.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 20.2 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 18202.3 | 18202.3 | 18202.3 | 18202.3 | 18202.3 | 18202.3 | 18202.3 | 18202.3 | 18202.3 | 18202.3 |
| 2.5° | 18176.2 | 18219.8 | 18054.1 | 18128.2 | 18158.7 | 18119.5 | 18263.4 | 18219.8 | 18254.7 | 18145.7 |
| 5° | 18176.2 | 18219.8 | 18027.9 | 18062.8 | 18071.5 | 17997.4 | 18154.4 | 18102.0 | 18106.4 | 17993.0 |
| 7.5° | 18062.8 | 18115.1 | 17940.7 | 17966.9 | 17971.2 | 17910.2 | 18045.4 | 17971.2 | 17945.1 | 17827.3 |
| 10° | 17757.5 | 17788.1 | 17631.1 | 17696.5 | 17757.5 | 17700.8 | 17818.6 | 17735.7 | 17735.7 | 17631.1 |
| 12.5° | 17273.5 | 17330.2 | 17155.7 | 17234.2 | 17286.6 | 17221.1 | 17356.3 | 17325.8 | 17330.2 | 17225.5 |
| 15° | 16392.6 | 16196.3 | 16405.7 | 16562.7 | 16567.0 | 16553.9 | 16680.4 | 16649.9 | 16671.7 | 16514.7 |
| 17.5° | 12110.2 | 12062.2 | 12306.4 | 14159.8 | 15537.8 | 15725.4 | 15747.2 | 15581.5 | 15507.3 | 15354.7 |
| 20° | 11220.6 | 11255.5 | 11203.1 | 11211.8 | 12297.7 | 14552.3 | 14417.1 | 14007.2 | 13819.7 | 13667.0 |
| 22.5° | 10570.8 | 10514.1 | 10479.2 | 10457.4 | 10487.9 | 11957.6 | 12930.0 | 12310.8 | 12210.5 | 12136.4 |
| 25° | 9864.3 | 9838.2 | 9794.6 | 9785.8 | 9768.4 | 9519.8 | 10919.7 | 10976.4 | 10815.0 | 10723.4 |
| 27.5° | 9205.8 | 9188.4 | 9140.4 | 9136.1 | 8935.5 | 8333.7 | 8486.3 | 9833.8 | 9790.2 | 9755.3 |
| 30° | 8503.7 | 8468.8 | 8442.7 | 8442.7 | 7836.5 | 7217.3 | 6968.7 | 8573.5 | 8573.5 | 8543.0 |
| 32.5° | 7740.6 | 7710.0 | 7718.8 | 7614.1 | 6890.2 | 6323.3 | 5930.8 | 7400.4 | 7858.3 | 7832.2 |
| 35° | 4731.6 | 4722.8 | 5608.1 | 6772.5 | 5922.1 | 5407.5 | 5381.3 | 6332.0 | 6999.2 | 7069.0 |
| 37.5° | 4212.6 | 4186.5 | 4199.5 | 4273.7 | 5071.7 | 4866.8 | 4858.0 | 5019.4 | 5957.0 | 5991.9 |
| 40° | 3780.9 | 3763.4 | 3750.4 | 3484.3 | 3231.4 | 4343.4 | 4312.9 | 4208.3 | 5089.2 | 5150.2 |
| 42.5° | 3371.0 | 3353.5 | 3353.5 | 2978.5 | 2568.6 | 3571.6 | 3584.6 | 3462.5 | 4291.1 | 4312.9 |
| 45° | 2948.0 | 2934.9 | 2860.7 | 2376.7 | 2258.9 | 2372.3 | 2969.8 | 2830.2 | 3405.9 | 3632.6 |
| 47.5° | 1391.1 | 1382.4 | 2001.6 | 1975.5 | 1966.8 | 1897.0 | 2267.7 | 2346.2 | 2703.8 | 2930.5 |
| 50° | 1116.4 | 1107.7 | 1055.3 | 928.9 | 1617.9 | 1439.1 | 1635.3 | 1805.4 | 1918.8 | 2128.1 |
| 52.5° | 924.5 | 915.8 | 806.8 | 715.2 | 898.3 | 1051.0 | 976.8 | 1208.0 | 1203.6 | 1430.4 |
| 55° | 606.2 | 562.6 | 619.2 | 584.4 | 471.0 | 763.2 | 745.7 | 915.8 | 894.0 | 1090.2 |
| 57.5° | 13.1 | 13.1 | 30.5 | 331.4 | 296.5 | 322.7 | 427.4 | 523.3 | 588.7 | 645.4 |
| 60° | 4.4 | 4.4 | 8.7 | 17.4 | 122.1 | 135.2 | 165.7 | 191.9 | 270.4 | 335.8 |
| 62.5° | 0.0 | 0.0 | 4.4 | 8.7 | 17.4 | 69.8 | 78.5 | 91.6 | 126.5 | 174.4 |
| 65° | 0.0 | 0.0 | 0.0 | 4.4 | 8.7 | 17.4 | 26.2 | 56.7 | 78.5 | 100.3 |
| 67.5° | 0.0 | 0.0 | 0.0 | 4.4 | 4.4 | 8.7 | 17.4 | 26.2 | 34.9 | 69.8 |
| 70° | 0.0 | 0.0 | 0.0 | 4.4 | 4.4 | 8.7 | 13.1 | 17.4 | 26.2 | 34.9 |
| 72.5° | 0.0 | 0.0 | 0.0 | 4.4 | 4.4 | 13.1 | 8.7 | 13.1 | 17.4 | 21.8 |
| 75° | 0.0 | 0.0 | 0.0 | 4.4 | 4.4 | 4.4 | 8.7 | 13.1 | 13.1 | 17.4 |
| 77.5° | 0.0 | 0.0 | 0.0 | 4.4 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 13.1 |
| 80° | 0.0 | 0.0 | 0.0 | 4.4 | 4.4 | 8.7 | 13.1 | 17.4 | 8.7 | 8.7 |
| 82.5° | 0.0 | 0.0 | 0.0 | 8.7 | 4.4 | 17.4 | 26.2 | 21.8 | 8.7 | 4.4 |
| 85° | 0.0 | 0.0 | 0.0 | 4.4 | 17.4 | 21.8 | 21.8 | 13.1 | 4.4 | 4.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 4.4 | 4.4 | 8.7 | 13.1 | 13.1 | 4.4 | 4.4 |
| 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 18202.3 | 0° | 18202.3 | 18202.3 | 18202.3 | 18202.3 | 18202.3 | 18202.3 | 18202.3 | 18202.3 | 18202.3 |
| 18136.9 | 2.5° | 18036.6 | 18206.7 | 18359.3 | 18263.4 | 18228.5 | 18158.7 | 18106.4 | 18049.7 | 18045.4 |
| 17979.9 | 5° | 17879.6 | 18041.0 | 18189.3 | 18075.9 | 18084.6 | 18049.7 | 18014.8 | 18001.7 | 18010.5 |
| 17818.6 | 7.5° | 17744.5 | 17879.6 | 18041.0 | 17945.1 | 17971.2 | 17949.4 | 17932.0 | 17905.8 | 17945.1 |
| 17609.3 | 10° | 17539.5 | 17661.6 | 17849.1 | 17757.5 | 17744.5 | 17722.6 | 17705.2 | 17657.2 | 17679.0 |
| 17229.9 | 12.5° | 17090.3 | 17243.0 | 17456.6 | 17352.0 | 17386.9 | 17325.8 | 17299.6 | 17269.1 | 17273.5 |
| 16571.4 | 15° | 16479.8 | 16597.5 | 16815.6 | 16732.7 | 16758.9 | 16719.6 | 16719.6 | 16719.6 | 16750.2 |
| 15376.5 | 17.5° | 15415.7 | 15655.6 | 16000.1 | 15895.4 | 15934.7 | 15943.4 | 15934.7 | 15965.2 | 16004.5 |
| 13675.7 | 20° | 13684.5 | 14094.4 | 14722.4 | 14927.3 | 15010.2 | 15014.5 | 14953.5 | 15027.6 | 15106.1 |
| 12084.0 | 22.5° | 12092.7 | 12524.5 | 13078.3 | 13640.9 | 13989.7 | 13972.3 | 13981.0 | 14029.0 | 14111.8 |
| 10666.7 | 25° | 10714.7 | 11129.0 | 11630.5 | 12132.0 | 12895.1 | 13052.1 | 13056.5 | 13100.1 | 13165.5 |
| 9698.6 | 27.5° | 9720.4 | 9881.8 | 10339.7 | 10845.5 | 11665.4 | 12166.9 | 12140.7 | 12180.0 | 12249.7 |
| 8486.3 | 30° | 8521.2 | 9140.4 | 9245.1 | 9554.7 | 10261.2 | 11181.3 | 11185.7 | 11229.3 | 11299.1 |
| 7771.1 | 32.5° | 7749.3 | 8159.2 | 8481.9 | 8490.6 | 9092.5 | 10038.8 | 10226.3 | 10269.9 | 10317.9 |
| 7029.8 | 35° | 7025.4 | 7073.4 | 7509.4 | 7631.6 | 7980.4 | 8918.0 | 9249.4 | 9275.6 | 9354.1 |
| 5978.8 | 37.5° | 6079.1 | 6362.5 | 6484.6 | 6920.7 | 6938.2 | 7697.0 | 8355.5 | 8329.3 | 8390.3 |
| 5145.8 | 40° | 5211.3 | 5481.6 | 5791.3 | 6109.6 | 6153.2 | 6720.1 | 7448.4 | 7474.6 | 7500.7 |
| 4269.3 | 42.5° | 4304.2 | 4648.7 | 4967.1 | 5180.7 | 5477.3 | 5804.3 | 6497.7 | 6619.8 | 6680.9 |
| 3658.8 | 45° | 3724.2 | 3820.1 | 4199.5 | 4513.5 | 4814.4 | 4967.1 | 5616.8 | 5839.2 | 5878.5 |
| 2895.6 | 47.5° | 2934.9 | 3257.6 | 3514.9 | 3780.9 | 4155.9 | 4291.1 | 4762.1 | 5071.7 | 5102.2 |
| 2149.9 | 50° | 2267.7 | 2498.8 | 2852.0 | 3091.9 | 3528.0 | 3602.1 | 3924.8 | 4326.0 | 4365.2 |
| 1439.1 | 52.5° | 1622.3 | 1936.2 | 2280.7 | 2511.9 | 2930.5 | 3026.5 | 3266.3 | 3650.1 | 3676.2 |
| 1103.3 | 55° | 1164.4 | 1369.3 | 1652.8 | 1984.2 | 2289.5 | 2503.1 | 2668.9 | 3035.2 | 3070.1 |
| 723.9 | 57.5° | 793.7 | 985.6 | 1103.3 | 1434.7 | 1617.9 | 1849.0 | 1984.2 | 2263.3 | 2289.5 |
| 344.5 | 60° | 379.4 | 471.0 | 562.6 | 728.3 | 846.0 | 1042.3 | 1129.5 | 1242.9 | 1273.4 |
| 209.3 | 62.5° | 244.2 | 287.8 | 366.3 | 436.1 | 549.5 | 671.6 | 706.5 | 802.4 | 837.3 |
| 130.8 | 65° | 161.4 | 205.0 | 287.8 | 305.3 | 418.6 | 514.6 | 558.2 | 628.0 | 667.2 |
| 78.5 | 67.5° | 91.6 | 143.9 | 213.7 | 252.9 | 331.4 | 423.0 | 471.0 | 532.0 | 566.9 |
| 52.3 | 70° | 61.1 | 117.7 | 170.1 | 209.3 | 261.7 | 340.1 | 401.2 | 453.5 | 475.3 |
| 26.2 | 72.5° | 34.9 | 74.1 | 117.7 | 165.7 | 209.3 | 283.5 | 340.1 | 383.8 | 252.9 |
| 17.4 | 75° | 21.8 | 56.7 | 100.3 | 139.5 | 174.4 | 226.8 | 274.7 | 270.4 | 113.4 |
| 13.1 | 77.5° | 17.4 | 43.6 | 87.2 | 117.7 | 143.9 | 157.0 | 196.2 | 222.4 | 87.2 |
| 8.7 | 80° | 13.1 | 34.9 | 78.5 | 100.3 | 56.7 | 113.4 | 152.6 | 165.7 | 61.1 |
| 8.7 | 82.5° | 8.7 | 21.8 | 65.4 | 69.8 | 39.2 | 82.9 | 122.1 | 109.0 | 43.6 |
| 4.4 | 85° | 4.4 | 13.1 | 21.8 | 39.2 | 34.9 | 39.2 | 30.5 | 43.6 | 30.5 |
| 4.4 | 87.5° | 4.4 | 8.7 | 17.4 | 17.4 | 17.4 | 13.1 | 17.4 | 17.4 | 17.4 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
18202.3
18150.0
18119.5
18054.1
17783.7
17399.9
16763.3
16135.3
15158.4
14124.9
13278.9
12315.1
11421.2
10426.9
9437.0
8464.5
7583.6
6768.1
5974.4
5176.4
4421.9
3724.2
3100.6
2341.8
1308.3
846.0
667.2
562.6
471.0
205.0
113.4
87.2
65.4
43.6
30.5
17.4
0.0

(END OF REPORT)