

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: P285779

Luminaire Tested: **USSL-XL-C06-D-U-T2-AP-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C06-D-U-T2-AP-7050-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, GRAY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48562.5 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 346
Input Voltage (V): NR
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: 28.75 FT

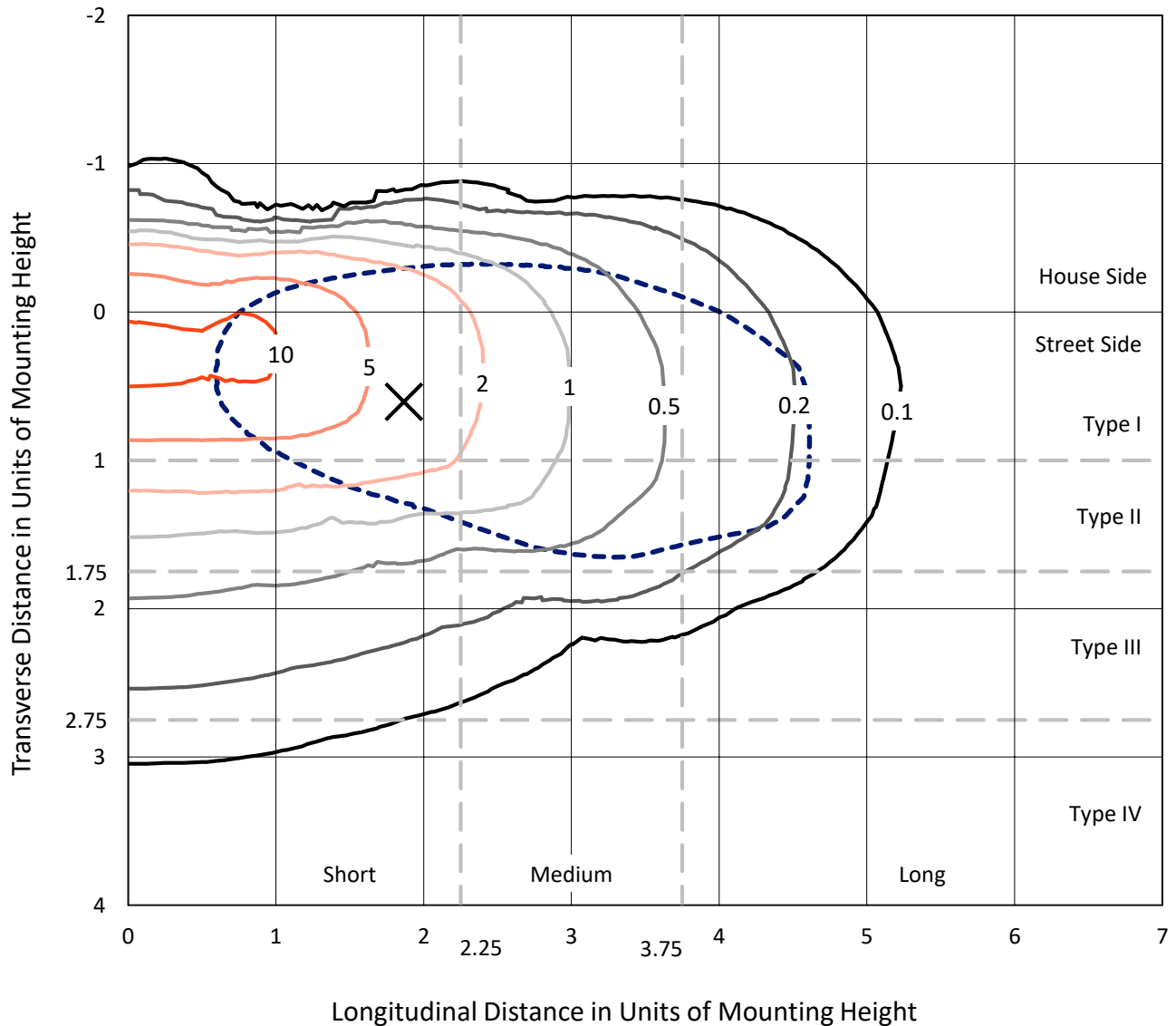


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

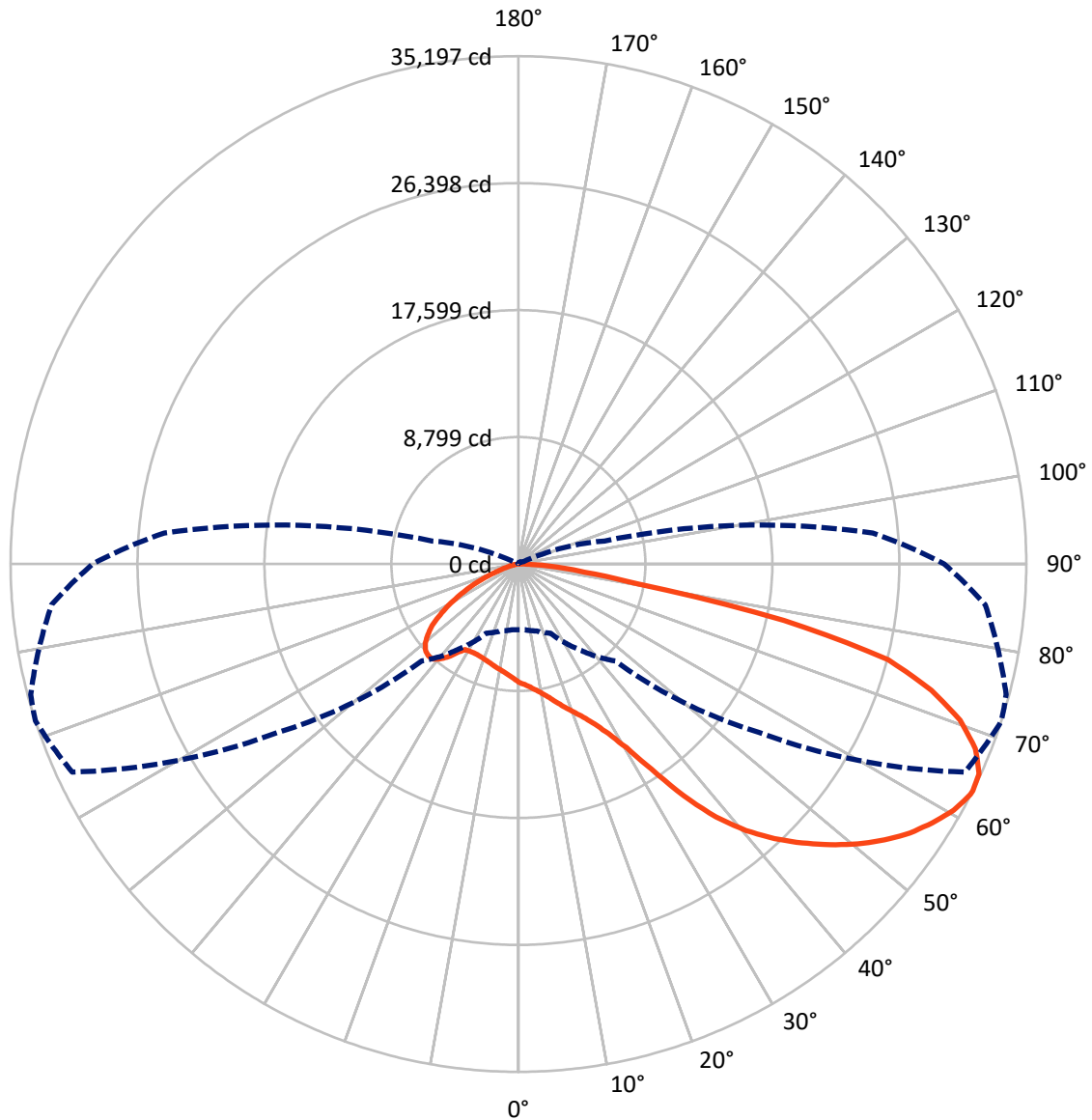


Based on 30 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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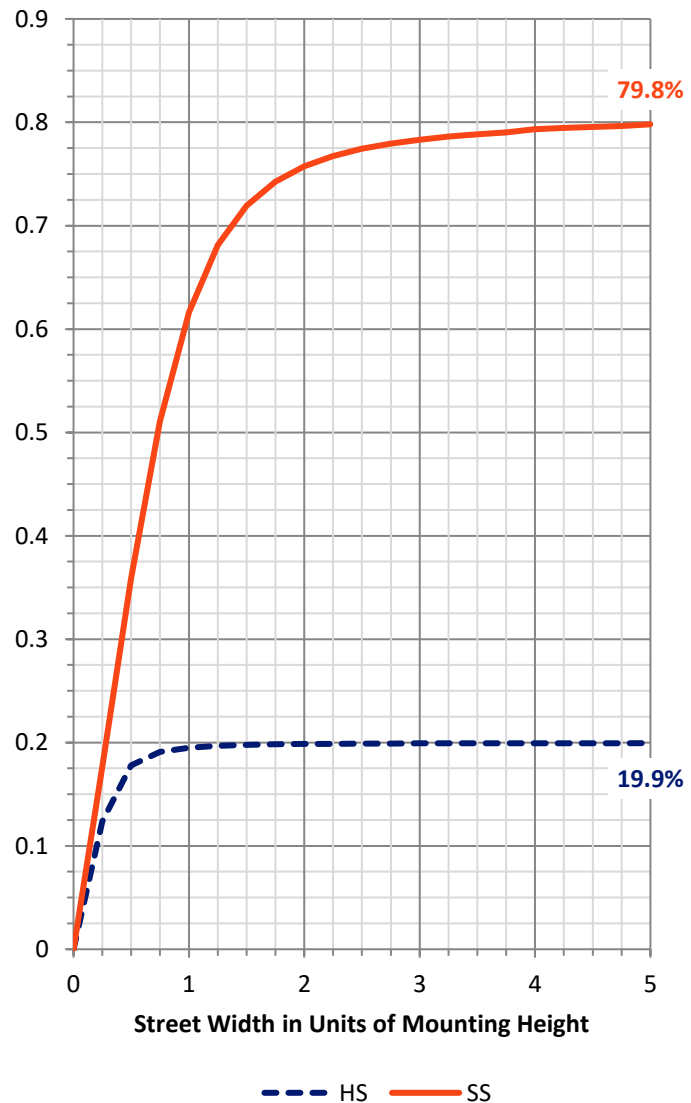
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9797.3 | 0.0 | 9797.3 |
| | % Fixture | 20.2 | 0.0 | 20.2 |
| Street Side | Lumens | 38765.2 | 0.0 | 38765.2 |
| | % Fixture | 79.8 | 0.0 | 79.8 |
| Total | Lumens | 48562.5 | 0.0 | 48562.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 784.9 | 1.6 |
| 10°-20° | 2379.9 | 4.9 |
| 20°-30° | 4015.6 | 8.3 |
| 30°-40° | 6145.8 | 12.7 |
| 40°-50° | 8561.8 | 17.6 |
| 50°-60° | 9923.3 | 20.4 |
| 60°-70° | 9728.3 | 20.0 |
| 70°-80° | 6073.7 | 12.5 |
| 80°-90° | 949.3 | 2.0 |
| 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° | 48562.5 | 100.0 |
| 0°-180° | 48562.5 | 100.0 |

Coefficient of Utilization



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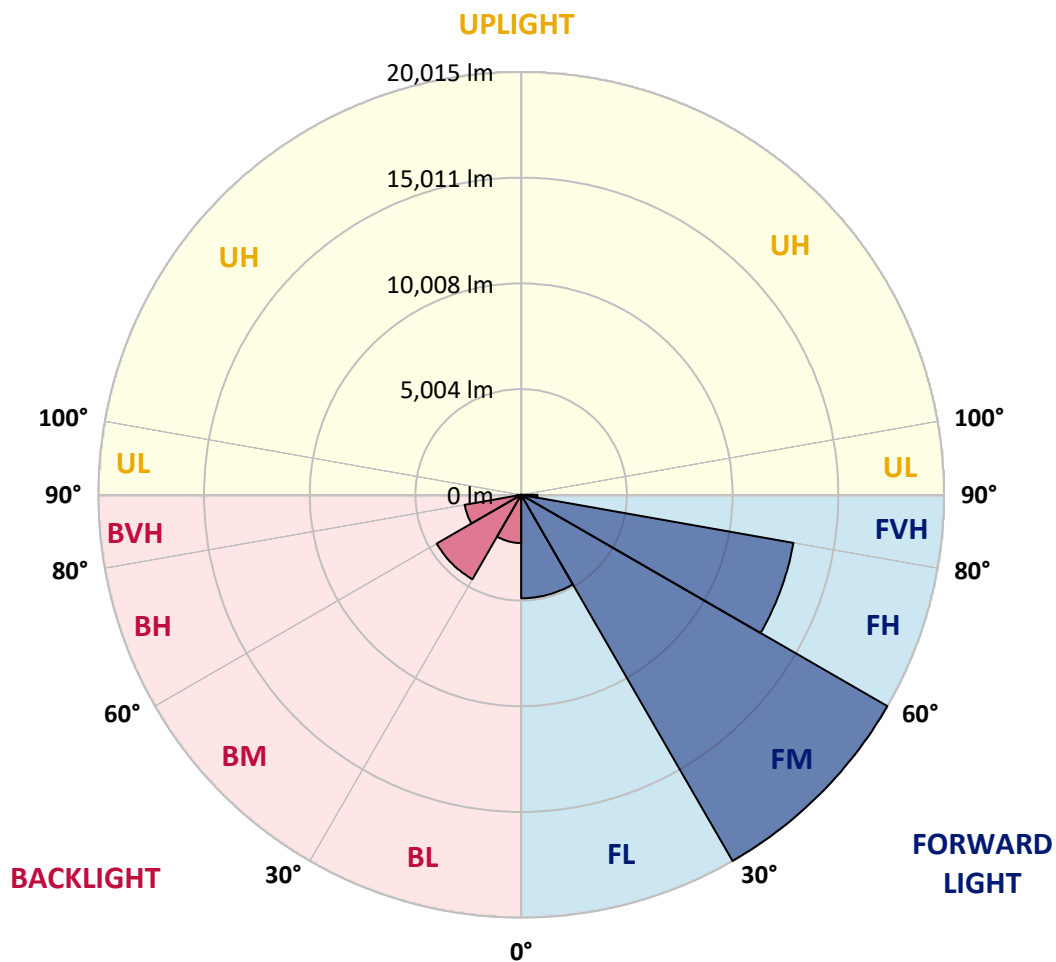
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4896.4 | 10.1 | | | |
| FM | (30°-60°) | 20015.3 | 41.2 | | | |
| FH | (60°-80°) | 13086.1 | 26.9 | | | G5 |
| FVH | (80°-90°) | 767.4 | 1.6 | | | G5 |
| BL | (0°-30°) | 2284.0 | 4.7 | B3/2500 | | |
| BM | (30°-60°) | 4615.5 | 9.5 | B3/5000 | | |
| BH | (60°-80°) | 2715.9 | 5.6 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 181.9 | 0.4 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 72° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8219.8 | 8219.8 | 8219.8 | 8219.8 | 8219.8 | 8219.8 | 8219.8 | 8219.8 | 8219.8 | 8219.8 | 8219.8 |
| 2.5° | 8930.8 | 8906.8 | 8880.6 | 8848.5 | 8822.4 | 8742.1 | 8669.8 | 8531.1 | 8360.5 | 8352.4 | 8213.9 |
| 5° | 9539.3 | 9501.2 | 9471.1 | 9414.8 | 9352.6 | 9210.0 | 9043.3 | 8810.3 | 8567.3 | 8529.1 | 8284.2 |
| 7.5° | 10047.4 | 10007.3 | 9973.1 | 9900.8 | 9830.6 | 9655.8 | 9441.0 | 9127.6 | 8826.4 | 8750.1 | 8382.5 |
| 10° | 10491.2 | 10451.0 | 10435.0 | 10356.7 | 10306.5 | 10115.7 | 9848.6 | 9509.2 | 9131.7 | 9015.2 | 8531.1 |
| 12.5° | 10959.2 | 10917.0 | 10888.9 | 10806.5 | 10746.3 | 10543.5 | 10306.5 | 9926.9 | 9499.1 | 9374.6 | 8744.1 |
| 15° | 11421.1 | 11382.9 | 11318.7 | 11274.5 | 11204.2 | 10993.3 | 10770.4 | 10374.7 | 9949.1 | 9792.4 | 9029.2 |
| 17.5° | 11846.8 | 11814.7 | 11766.5 | 11728.3 | 11670.1 | 11451.2 | 11208.2 | 10872.9 | 10437.0 | 10244.3 | 9356.6 |
| 20° | 12160.1 | 12162.1 | 12142.1 | 12122.0 | 12142.1 | 11963.3 | 11766.5 | 11393.0 | 10945.2 | 10720.1 | 9696.0 |
| 22.5° | 12429.2 | 12445.3 | 12471.4 | 12501.5 | 12630.1 | 12541.7 | 12304.7 | 12001.5 | 11521.5 | 11256.5 | 10131.8 |
| 25° | 12561.8 | 12573.8 | 12690.3 | 12887.1 | 13176.4 | 13174.3 | 12953.4 | 12734.5 | 12278.6 | 12003.5 | 10738.3 |
| 27.5° | 12640.2 | 12656.2 | 12818.9 | 13214.5 | 13724.5 | 13802.9 | 13712.6 | 13616.1 | 13298.8 | 13023.7 | 11539.6 |
| 30° | 12636.1 | 12658.2 | 12909.3 | 13405.3 | 14156.3 | 14554.0 | 14562.1 | 14917.5 | 14766.8 | 14578.1 | 12891.1 |
| 32.5° | 12334.9 | 12342.9 | 12692.3 | 13423.3 | 14481.7 | 15220.8 | 15552.1 | 16484.0 | 16949.9 | 16984.0 | 15387.4 |
| 35° | 11619.9 | 11722.3 | 12244.5 | 13260.6 | 14716.7 | 15873.5 | 16730.9 | 18486.2 | 19723.4 | 19781.5 | 17893.8 |
| 37.5° | 11105.7 | 11168.1 | 11762.5 | 12969.5 | 14825.1 | 16554.3 | 18084.5 | 20890.1 | 22243.7 | 22101.1 | 19968.3 |
| 40° | 10543.5 | 10619.8 | 11230.3 | 12579.8 | 14756.9 | 17138.7 | 19464.2 | 23197.6 | 24282.1 | 24059.2 | 21735.6 |
| 42.5° | 9920.9 | 9985.2 | 10559.6 | 12003.5 | 14539.9 | 17560.4 | 20795.8 | 25191.8 | 26025.3 | 25752.2 | 23342.3 |
| 45° | 9308.4 | 9350.5 | 9894.8 | 11226.2 | 14122.2 | 17817.4 | 22010.7 | 26987.3 | 27571.7 | 27340.8 | 24822.3 |
| 47.5° | 8531.1 | 8581.4 | 9248.2 | 10485.3 | 13357.1 | 17809.4 | 23063.1 | 28583.8 | 29071.9 | 28814.8 | 26141.8 |
| 50° | 6579.1 | 6611.2 | 8083.3 | 9812.4 | 12369.0 | 17455.9 | 23964.8 | 30029.8 | 30489.7 | 30196.4 | 27447.2 |
| 52.5° | 5960.6 | 5986.6 | 6442.6 | 8975.0 | 11290.6 | 16723.0 | 24557.2 | 31363.3 | 31779.0 | 31465.7 | 28678.2 |
| 55° | 5665.4 | 5683.4 | 5904.4 | 7304.1 | 10344.6 | 15465.7 | 24818.3 | 32598.4 | 32913.7 | 32508.0 | 29678.4 |
| 57.5° | 5247.7 | 5283.8 | 5617.2 | 6255.7 | 9418.8 | 13535.8 | 24444.8 | 33596.5 | 33833.5 | 33435.8 | 30652.4 |
| 60° | 4930.3 | 4952.4 | 5233.6 | 5739.7 | 8300.2 | 11376.9 | 23111.3 | 34271.3 | 34656.9 | 34297.4 | 31568.2 |
| 62.5° | 4621.1 | 4629.1 | 4864.1 | 5356.1 | 7328.3 | 9764.2 | 20835.9 | 34229.2 | 35162.9 | 34940.0 | 32367.4 |
| 63° | 4554.8 | 4562.8 | 4801.8 | 5285.8 | 7185.6 | 9497.1 | 20337.9 | 34126.7 | 35197.2 | 34994.3 | 32473.9 |
| 65° | 4273.6 | 4285.7 | 4518.7 | 4964.5 | 6567.0 | 8651.6 | 18132.8 | 33496.1 | 35082.7 | 35076.6 | 32616.5 |
| 67.5° | 3853.9 | 3875.9 | 4074.8 | 4456.3 | 5723.6 | 7583.3 | 14732.7 | 32823.3 | 34162.8 | 34235.2 | 31819.2 |
| 70° | 3345.8 | 3361.9 | 3586.8 | 3908.1 | 4815.9 | 6438.6 | 11282.5 | 30672.4 | 32471.8 | 32271.1 | 29971.5 |
| 72.5° | 2807.6 | 2835.7 | 3050.6 | 3299.6 | 3994.4 | 5311.9 | 8169.7 | 27003.3 | 29933.4 | 30082.0 | 26872.8 |
| 75° | 2450.1 | 2466.2 | 2650.9 | 2827.7 | 3317.7 | 4227.4 | 5464.5 | 19389.9 | 26467.1 | 26505.2 | 23181.6 |
| 77.5° | 2032.4 | 2052.5 | 2243.3 | 2409.9 | 2691.1 | 3183.1 | 3769.5 | 10077.5 | 18819.6 | 19888.0 | 18000.2 |
| 80° | 1120.6 | 1301.3 | 1616.7 | 1739.2 | 1948.0 | 1934.0 | 2397.9 | 5326.0 | 8328.4 | 10412.9 | 11889.0 |
| 82.5° | 188.8 | 243.0 | 652.7 | 851.5 | 927.8 | 815.4 | 1164.8 | 2932.1 | 4643.1 | 5328.0 | 6398.4 |
| 85° | 80.3 | 116.5 | 341.4 | 373.5 | 233.0 | 226.9 | 459.9 | 1534.3 | 2657.0 | 3060.6 | 3297.6 |
| 87.5° | 10.1 | 18.1 | 88.4 | 116.5 | 54.3 | 74.3 | 92.4 | 480.0 | 925.8 | 1064.4 | 1203.0 |
| 90° | 0.0 | 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° | 180° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8219.8 | 8219.8 | 8219.8 | 8219.8 | 8219.8 | 8219.8 | 8219.8 | 8219.8 | 8219.8 | 8219.8 | 8219.8 |
| 2.5° | 8147.6 | 8101.5 | 7994.9 | 7912.6 | 7852.4 | 7770.0 | 7681.6 | 7617.4 | 7549.1 | 7519.0 | 7531.0 |
| 5° | 8159.6 | 8057.3 | 7830.3 | 7651.5 | 7452.7 | 7306.1 | 7115.3 | 7019.0 | 6914.5 | 6862.3 | 6860.3 |
| 7.5° | 8191.8 | 8031.1 | 7673.7 | 7392.5 | 7109.3 | 6880.3 | 6631.4 | 6460.6 | 6368.3 | 6299.9 | 6292.0 |
| 10° | 8272.1 | 8043.2 | 7555.2 | 7173.6 | 6808.1 | 6500.8 | 6197.6 | 5976.7 | 5850.1 | 5779.8 | 5789.9 |
| 12.5° | 8416.7 | 8087.4 | 7470.8 | 6994.8 | 6524.9 | 6159.4 | 5771.8 | 5512.8 | 5358.1 | 5271.7 | 5295.8 |
| 15° | 8615.5 | 8183.7 | 7384.4 | 6773.9 | 6221.6 | 5791.9 | 5378.1 | 5085.0 | 4912.2 | 4837.9 | 4862.1 |
| 17.5° | 8838.4 | 8324.3 | 7324.2 | 6526.9 | 5902.4 | 5416.3 | 5032.7 | 4745.6 | 4456.3 | 4398.2 | 4398.2 |
| 20° | 9087.5 | 8481.0 | 7314.2 | 6292.0 | 5587.1 | 5058.9 | 4617.0 | 4376.0 | 3956.3 | 3813.7 | 3783.6 |
| 22.5° | 9416.8 | 8701.9 | 7302.1 | 6077.0 | 5251.7 | 4689.3 | 4147.1 | 3767.5 | 3223.3 | 2978.3 | 2954.2 |
| 25° | 9870.7 | 9007.1 | 7322.2 | 5900.4 | 4946.3 | 4273.6 | 3500.4 | 2891.9 | 2434.1 | 2126.8 | 2110.7 |
| 27.5° | 10479.2 | 9414.8 | 7386.4 | 5735.6 | 4641.1 | 3761.5 | 2711.2 | 2062.5 | 1709.1 | 1433.9 | 1351.6 |
| 30° | 11630.0 | 10059.5 | 7498.9 | 5589.1 | 4285.7 | 3074.7 | 1928.0 | 1395.8 | 1142.7 | 951.9 | 909.7 |
| 32.5° | 13829.0 | 11678.2 | 7653.5 | 5426.4 | 3847.9 | 2265.3 | 1287.4 | 931.9 | 727.0 | 616.5 | 640.6 |
| 35° | 16022.1 | 13696.5 | 8390.6 | 5187.4 | 3271.5 | 1508.2 | 859.6 | 594.5 | 457.9 | 453.8 | 480.0 |
| 37.5° | 17998.2 | 15481.9 | 9386.7 | 4920.3 | 2500.3 | 1014.2 | 516.2 | 395.7 | 383.6 | 417.7 | 470.0 |
| 40° | 19637.0 | 16931.8 | 10228.1 | 4546.8 | 1717.0 | 620.6 | 337.4 | 359.5 | 341.4 | 355.5 | 349.4 |
| 42.5° | 21159.2 | 18237.2 | 10911.0 | 4123.0 | 1012.2 | 357.5 | 293.2 | 333.3 | 307.3 | 295.2 | 271.1 |
| 45° | 22528.9 | 19468.2 | 11254.4 | 3456.2 | 590.5 | 285.2 | 267.1 | 315.3 | 297.2 | 275.2 | 239.0 |
| 47.5° | 23776.0 | 20548.7 | 11479.4 | 2544.5 | 339.4 | 249.1 | 249.1 | 283.2 | 279.2 | 253.0 | 233.0 |
| 50° | 25069.4 | 21605.1 | 11457.2 | 1562.4 | 287.2 | 228.9 | 237.0 | 237.0 | 251.0 | 196.8 | 178.7 |
| 52.5° | 26212.1 | 22555.0 | 10999.3 | 885.7 | 265.1 | 216.9 | 214.8 | 192.8 | 204.9 | 152.6 | 142.6 |
| 55° | 27139.9 | 23294.1 | 10230.2 | 584.4 | 251.0 | 214.8 | 188.8 | 166.7 | 156.7 | 110.4 | 114.5 |
| 57.5° | 28051.6 | 23997.0 | 9053.3 | 461.9 | 261.1 | 206.9 | 172.8 | 142.6 | 122.5 | 86.4 | 82.4 |
| 60° | 28931.2 | 24557.2 | 7806.2 | 415.7 | 275.2 | 206.9 | 142.6 | 120.5 | 82.4 | 66.2 | 58.2 |
| 62.5° | 29463.5 | 24679.8 | 6426.5 | 375.5 | 283.2 | 192.8 | 128.6 | 98.4 | 60.2 | 44.2 | 40.2 |
| 63° | 29501.7 | 24643.6 | 6181.4 | 369.5 | 285.2 | 192.8 | 128.6 | 94.4 | 58.2 | 40.2 | 36.1 |
| 65° | 29443.4 | 24187.8 | 5225.5 | 349.4 | 291.2 | 184.7 | 122.5 | 76.3 | 46.2 | 28.1 | 24.1 |
| 67.5° | 28469.3 | 22663.4 | 3873.9 | 327.3 | 279.2 | 182.7 | 112.5 | 62.2 | 36.1 | 18.1 | 14.1 |
| 70° | 26085.5 | 20297.7 | 2588.7 | 291.2 | 269.1 | 178.7 | 132.6 | 52.3 | 30.1 | 10.1 | 8.1 |
| 72.5° | 22755.8 | 17745.2 | 1733.1 | 239.0 | 235.0 | 146.6 | 80.3 | 44.2 | 22.0 | 4.0 | 0.0 |
| 75° | 19233.3 | 14280.9 | 1072.4 | 182.7 | 190.8 | 124.5 | 64.2 | 38.2 | 18.1 | 0.0 | 0.0 |
| 77.5° | 14971.7 | 10549.5 | 763.1 | 116.5 | 134.6 | 106.4 | 54.3 | 32.1 | 14.1 | 0.0 | 0.0 |
| 80° | 10214.2 | 7149.4 | 552.3 | 64.2 | 70.3 | 70.3 | 44.2 | 24.1 | 8.1 | 0.0 | 0.0 |
| 82.5° | 5924.4 | 4006.5 | 281.2 | 32.1 | 30.1 | 36.1 | 20.0 | 12.1 | 2.0 | 0.0 | 0.0 |
| 85° | 2889.9 | 1775.3 | 48.2 | 18.1 | 16.1 | 16.1 | 8.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 980.1 | 459.9 | 6.0 | 8.1 | 6.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)