

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: P285817

Luminaire Tested: **USSL-XL-C04-D-U-T3-AP-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-8)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C04-D-U-T3-AP-7050-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, GRAY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35616.9 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 264
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

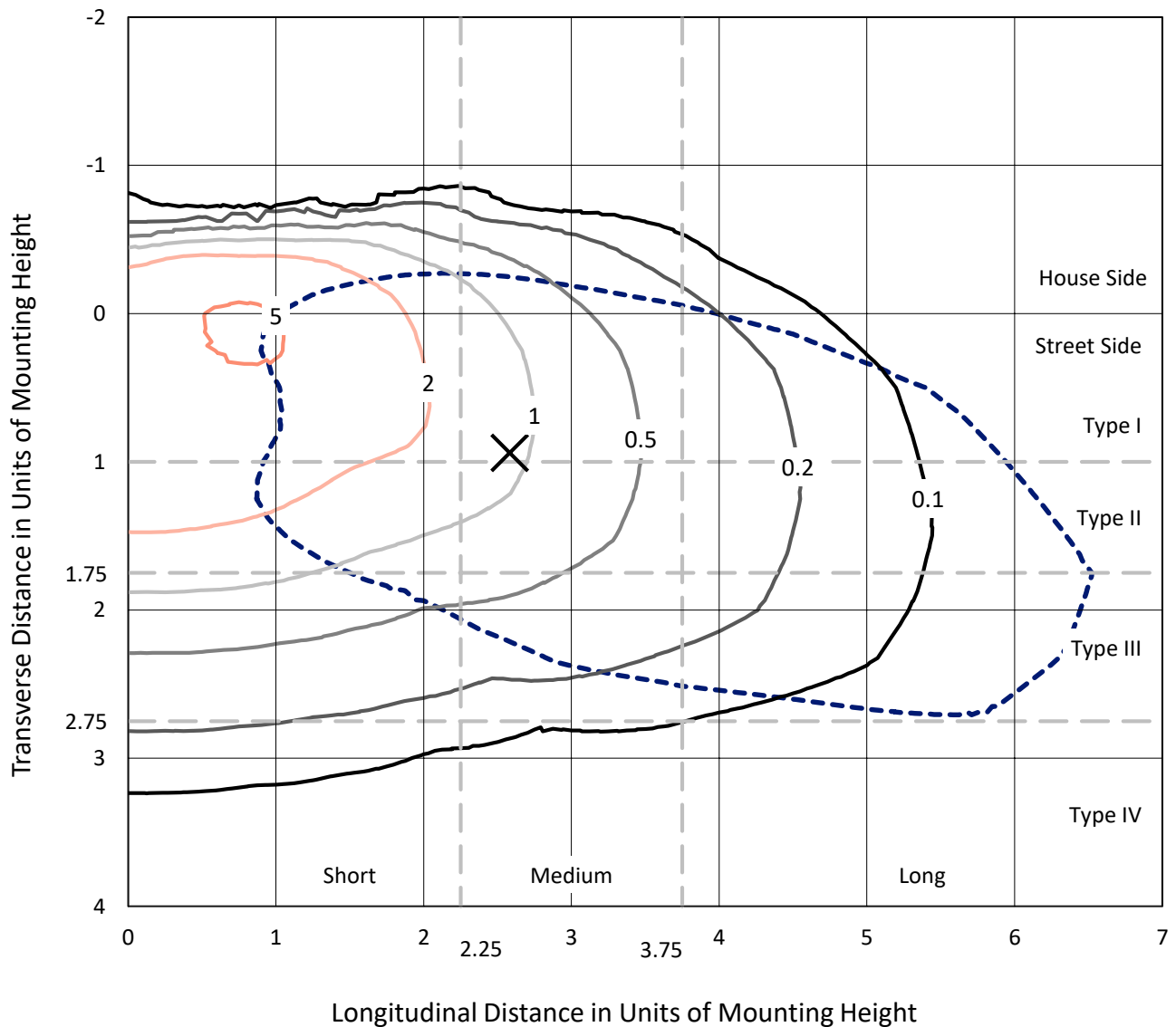


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

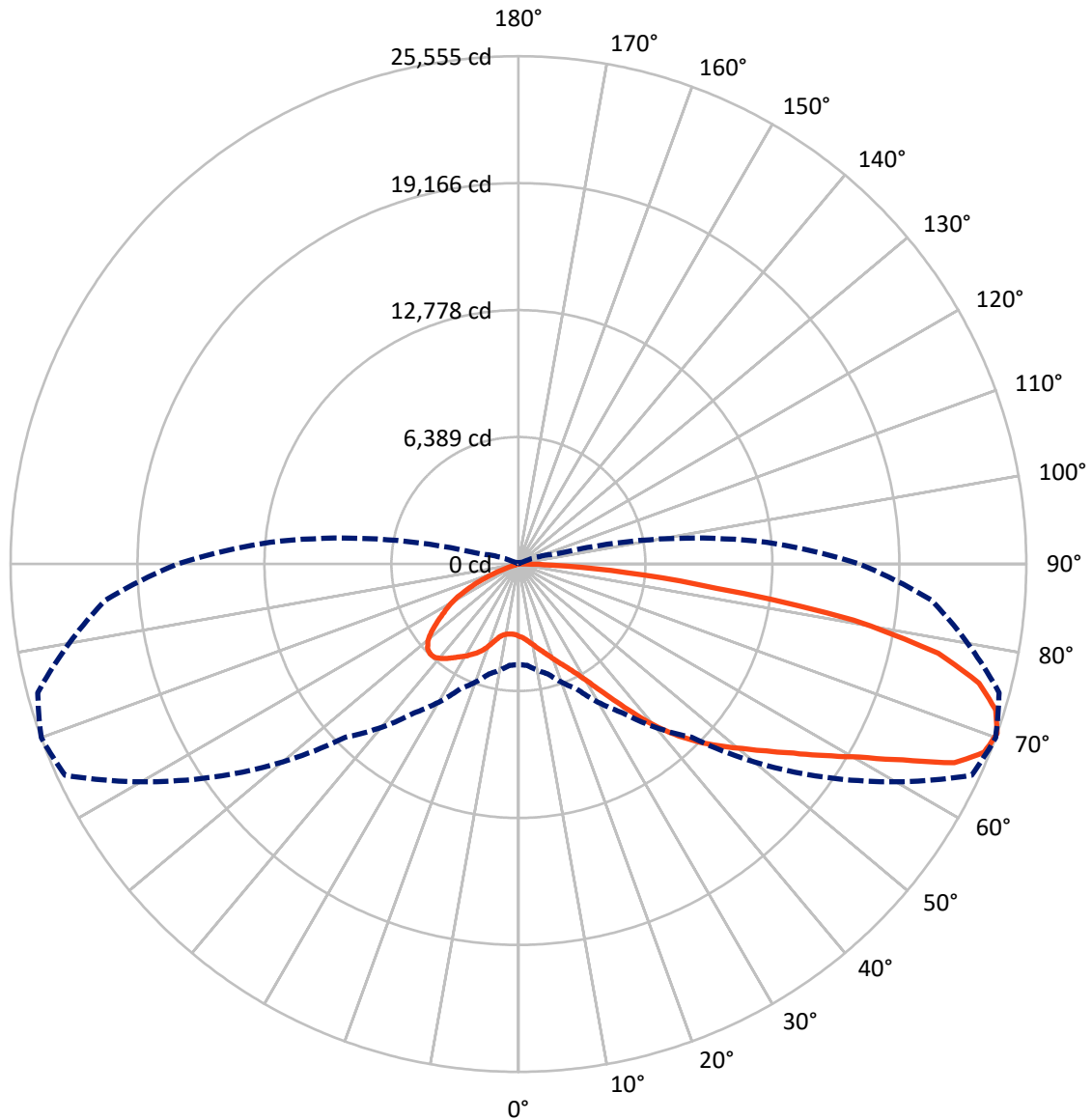


Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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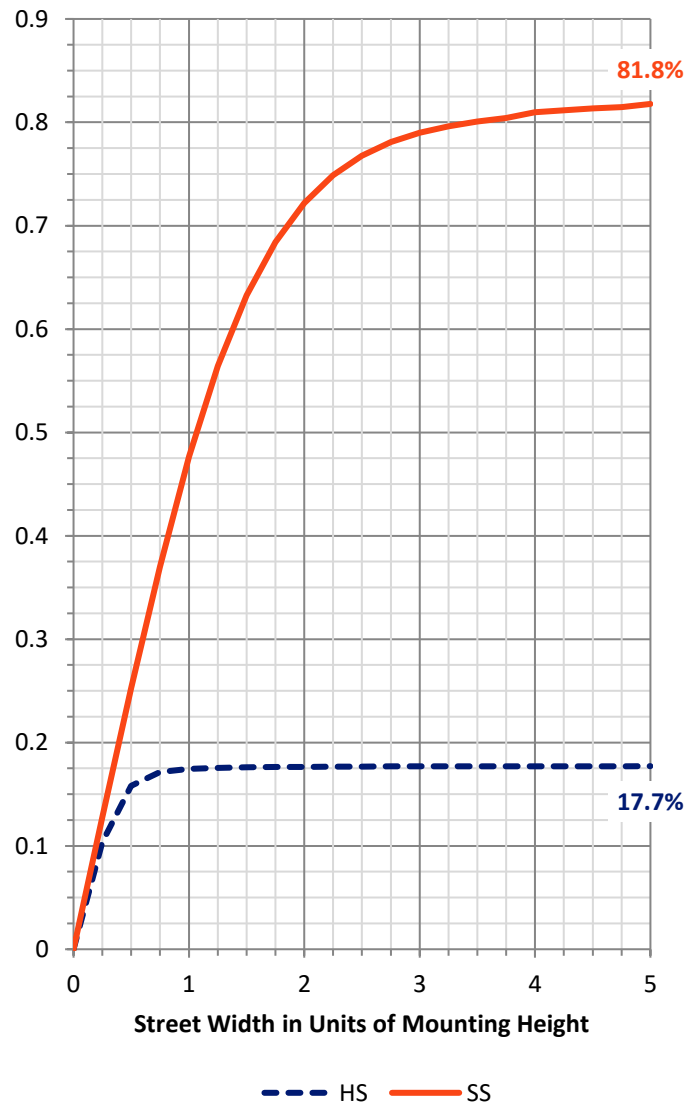
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6382.3 | 0.0 | 6382.3 |
| | % Fixture | 17.9 | 0.0 | 17.9 |
| Street Side | Lumens | 29234.6 | 0.0 | 29234.6 |
| | % Fixture | 82.1 | 0.0 | 82.1 |
| Total | Lumens | 35616.9 | 0.0 | 35616.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 351.9 | 1.0 |
| 10°-20° | 1105.9 | 3.1 |
| 20°-30° | 2013.7 | 5.7 |
| 30°-40° | 3423.5 | 9.6 |
| 40°-50° | 5385.0 | 15.1 |
| 50°-60° | 7269.2 | 20.4 |
| 60°-70° | 8504.3 | 23.9 |
| 70°-80° | 6328.0 | 17.8 |
| 80°-90° | 1235.4 | 3.5 |
| 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° | 35616.9 | 100.0 |
| 0°-180° | 35616.9 | 100.0 |

Coefficient of Utilization



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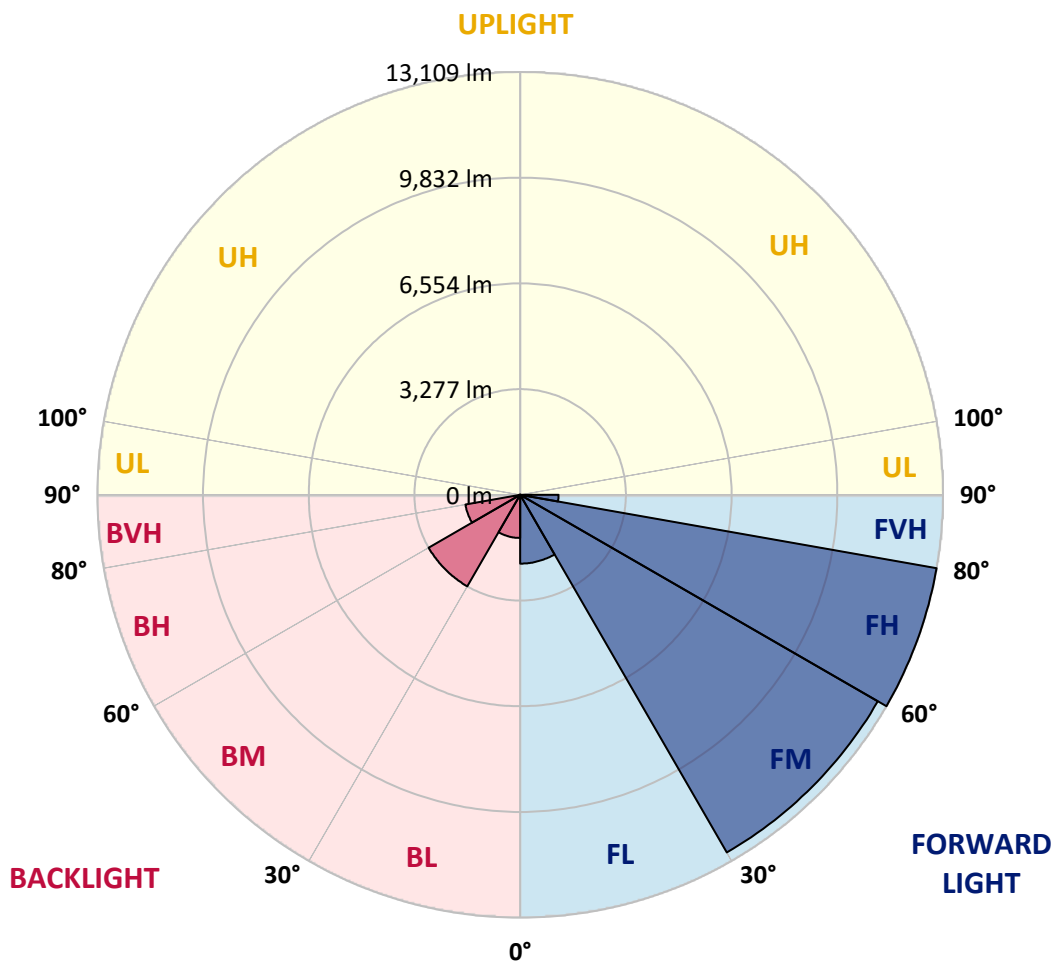
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2133.6 | 6.0 | | | |
| FM | (30°-60°) | 12802.2 | 35.9 | | | |
| FH | (60°-80°) | 13108.7 | 36.8 | | | G5 |
| FVH | (80°-90°) | 1190.1 | 3.3 | | | G5 |
| BL | (0°-30°) | 1337.8 | 3.8 | B3/2500 | | |
| BM | (30°-60°) | 3275.6 | 9.2 | B3/5000 | | |
| BH | (60°-80°) | 1723.6 | 4.8 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 45.3 | 0.1 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 |
| 2.5° | 3844.3 | 3841.2 | 3847.2 | 3832.3 | 3841.2 | 3812.8 | 3787.2 | 3751.2 | 3695.8 | 3676.3 | 3638.7 |
| 5° | 4031.8 | 4034.7 | 4033.2 | 4022.7 | 4009.2 | 3979.2 | 3928.2 | 3878.7 | 3812.8 | 3781.2 | 3707.7 |
| 7.5° | 4192.2 | 4193.7 | 4199.7 | 4196.7 | 4189.3 | 4150.3 | 4103.7 | 4040.8 | 3961.3 | 3920.7 | 3820.2 |
| 10° | 4319.7 | 4318.2 | 4327.1 | 4340.7 | 4370.7 | 4340.7 | 4279.2 | 4228.2 | 4142.7 | 4088.7 | 3964.2 |
| 12.5° | 4403.7 | 4393.2 | 4418.7 | 4456.1 | 4510.2 | 4514.6 | 4474.2 | 4421.7 | 4346.6 | 4283.7 | 4144.2 |
| 15° | 4442.7 | 4438.2 | 4484.6 | 4562.7 | 4640.7 | 4666.2 | 4660.2 | 4621.2 | 4565.7 | 4502.7 | 4351.2 |
| 17.5° | 4534.1 | 4532.7 | 4564.1 | 4655.7 | 4747.2 | 4811.6 | 4877.7 | 4871.6 | 4820.6 | 4775.7 | 4618.2 |
| 20° | 4682.6 | 4685.7 | 4685.7 | 4765.2 | 4865.7 | 4979.6 | 5110.1 | 5150.7 | 5110.1 | 5083.2 | 4931.6 |
| 22.5° | 4864.2 | 4850.6 | 4841.6 | 4907.7 | 5030.6 | 5189.6 | 5374.1 | 5449.2 | 5443.1 | 5416.1 | 5324.6 |
| 25° | 5119.1 | 5089.1 | 5024.7 | 5107.1 | 5258.6 | 5444.6 | 5660.6 | 5786.6 | 5797.1 | 5804.5 | 5870.6 |
| 27.5° | 5524.1 | 5522.6 | 5413.1 | 5419.2 | 5522.6 | 5738.6 | 6002.5 | 6220.0 | 6250.0 | 6334.1 | 6560.6 |
| 30° | 6340.0 | 6257.5 | 6131.5 | 5930.6 | 5896.1 | 6100.0 | 6415.0 | 6748.1 | 6833.5 | 7090.0 | 7364.5 |
| 32.5° | 7103.4 | 7042.0 | 6953.5 | 6721.0 | 6437.5 | 6512.6 | 6871.0 | 7364.5 | 7589.5 | 8100.9 | 8351.4 |
| 35° | 7759.0 | 7727.4 | 7661.5 | 7523.5 | 7267.0 | 7073.5 | 7367.5 | 8049.9 | 8523.9 | 9273.8 | 9492.8 |
| 37.5° | 8399.4 | 8375.4 | 8331.9 | 8210.4 | 8049.9 | 7760.5 | 7944.9 | 8858.3 | 9629.3 | 10508.3 | 10620.7 |
| 40° | 8961.9 | 8954.4 | 8991.9 | 8916.8 | 8846.3 | 8666.4 | 8612.4 | 9711.9 | 10784.3 | 11711.2 | 11684.2 |
| 42.5° | 9453.9 | 9441.8 | 9624.8 | 9525.9 | 9609.8 | 9540.8 | 9428.3 | 10509.8 | 11831.1 | 12698.1 | 12606.7 |
| 45° | 9782.3 | 9776.3 | 9969.8 | 10068.8 | 10305.7 | 10356.8 | 10289.3 | 11337.8 | 12785.1 | 13602.5 | 13401.6 |
| 47.5° | 10032.8 | 10016.3 | 10122.8 | 10503.7 | 10941.8 | 11045.2 | 11175.7 | 12261.7 | 13682.0 | 14402.0 | 14159.0 |
| 50° | 10169.3 | 10175.3 | 10394.2 | 10908.7 | 11556.7 | 11795.2 | 12069.6 | 13359.6 | 14594.0 | 15258.4 | 14856.4 |
| 52.5° | 10257.8 | 10322.3 | 10644.8 | 11264.2 | 12149.1 | 12567.7 | 12882.6 | 14546.0 | 15627.4 | 16066.9 | 15637.9 |
| 55° | 10320.8 | 10434.7 | 10757.2 | 11456.2 | 12519.6 | 13212.6 | 13673.0 | 15796.9 | 16803.3 | 17080.8 | 16465.9 |
| 57.5° | 9914.3 | 10035.8 | 10578.8 | 11490.7 | 12825.6 | 13757.1 | 14578.9 | 17136.3 | 18178.8 | 18204.2 | 17235.2 |
| 60° | 9249.9 | 9324.9 | 10019.3 | 11279.2 | 12782.1 | 14258.0 | 15690.4 | 18723.2 | 19711.6 | 19698.1 | 18186.2 |
| 62.5° | 8562.9 | 8601.9 | 9306.9 | 10721.2 | 12536.1 | 14442.5 | 16749.3 | 20856.1 | 21705.0 | 21304.5 | 19155.1 |
| 65° | 7655.4 | 7699.0 | 8426.4 | 9800.4 | 11852.1 | 14318.0 | 17655.3 | 23092.4 | 24110.8 | 23471.8 | 20092.6 |
| 67.5° | 6473.6 | 6556.0 | 7228.0 | 8504.4 | 10739.2 | 13661.1 | 18345.2 | 24625.3 | 25280.7 | 24721.2 | 20749.6 |
| 70° | 5048.6 | 5122.2 | 5722.1 | 6925.0 | 9134.3 | 12321.7 | 18666.2 | 25165.2 | 25555.2 | 25042.3 | 20860.5 |
| 72.5° | 3595.3 | 3649.2 | 3914.7 | 4921.1 | 6928.0 | 10296.8 | 18361.7 | 24905.7 | 25108.3 | 24467.8 | 20107.6 |
| 75° | 2737.3 | 2693.8 | 2851.3 | 3232.3 | 4052.7 | 7235.5 | 16509.3 | 23732.9 | 23939.9 | 23233.3 | 18639.2 |
| 77.5° | 1981.4 | 1946.8 | 2135.8 | 2431.3 | 2827.3 | 3401.7 | 11604.6 | 21324.0 | 21591.0 | 21013.6 | 16146.4 |
| 80° | 1165.5 | 1215.0 | 1465.4 | 1745.9 | 2060.9 | 2266.4 | 5471.6 | 15930.4 | 17106.3 | 16870.9 | 11771.1 |
| 82.5° | 221.9 | 240.0 | 608.9 | 925.4 | 1135.5 | 1201.4 | 2071.4 | 8762.4 | 10043.3 | 10299.8 | 6218.5 |
| 85° | 145.5 | 157.5 | 364.5 | 372.0 | 363.0 | 465.0 | 836.9 | 4222.2 | 5422.1 | 5483.6 | 2731.3 |
| 87.5° | 67.5 | 75.0 | 111.0 | 160.5 | 204.0 | 244.5 | 276.0 | 1133.9 | 1675.4 | 1714.4 | 539.9 |
| 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° | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 |
| 2.5° | 3619.2 | 3604.3 | 3572.7 | 3545.8 | 3527.8 | 3517.3 | 3457.3 | 3446.8 | 3424.2 | 3407.8 | 3400.3 |
| 5° | 3673.2 | 3644.8 | 3568.3 | 3515.8 | 3448.3 | 3392.7 | 3292.3 | 3241.3 | 3211.3 | 3179.8 | 3172.3 |
| 7.5° | 3764.8 | 3718.2 | 3598.3 | 3503.7 | 3388.3 | 3287.8 | 3146.7 | 3065.8 | 3008.7 | 2963.8 | 2959.2 |
| 10° | 3893.8 | 3820.2 | 3647.8 | 3509.8 | 3343.2 | 3205.2 | 3029.8 | 2899.3 | 2819.8 | 2761.4 | 2758.3 |
| 12.5° | 4054.2 | 3953.7 | 3740.7 | 3557.8 | 3343.2 | 3152.8 | 2944.3 | 2770.3 | 2653.4 | 2573.9 | 2564.9 |
| 15° | 4255.2 | 4135.2 | 3895.2 | 3670.2 | 3416.8 | 3173.8 | 2885.8 | 2651.8 | 2480.8 | 2353.3 | 2347.4 |
| 17.5° | 4505.6 | 4381.2 | 4147.2 | 3893.8 | 3556.3 | 3206.7 | 2842.3 | 2512.3 | 2264.8 | 2113.3 | 2096.8 |
| 20° | 4822.1 | 4763.6 | 4523.7 | 4153.2 | 3700.2 | 3223.3 | 2744.8 | 2318.8 | 1982.9 | 1787.8 | 1762.4 |
| 22.5° | 5275.1 | 5242.2 | 4898.6 | 4375.2 | 3782.8 | 3172.3 | 2584.4 | 2009.9 | 1601.9 | 1391.9 | 1372.4 |
| 25° | 5842.1 | 5728.1 | 5234.6 | 4540.2 | 3797.7 | 3059.8 | 2312.8 | 1615.4 | 1159.4 | 950.9 | 943.4 |
| 27.5° | 6433.1 | 6226.1 | 5525.6 | 4655.7 | 3754.3 | 2833.3 | 1931.9 | 1148.9 | 723.0 | 589.4 | 591.0 |
| 30° | 7178.5 | 6785.5 | 5855.6 | 4765.2 | 3653.8 | 2525.8 | 1432.3 | 715.4 | 454.5 | 373.5 | 363.0 |
| 32.5° | 8038.0 | 7493.5 | 6185.6 | 4808.7 | 3466.3 | 2090.9 | 909.0 | 439.4 | 285.0 | 243.0 | 238.5 |
| 35° | 9041.4 | 8369.4 | 6610.1 | 4813.1 | 3157.2 | 1553.9 | 544.5 | 258.0 | 193.5 | 195.0 | 198.0 |
| 37.5° | 10088.3 | 9297.9 | 7127.5 | 4759.2 | 2771.9 | 971.9 | 307.5 | 166.5 | 166.5 | 198.0 | 208.5 |
| 40° | 11036.2 | 10185.7 | 7676.4 | 4637.7 | 2228.9 | 565.5 | 174.0 | 144.0 | 152.9 | 186.0 | 195.0 |
| 42.5° | 11906.2 | 10953.7 | 8178.9 | 4448.7 | 1591.4 | 306.0 | 150.0 | 130.5 | 138.0 | 152.9 | 157.5 |
| 45° | 12659.1 | 11621.2 | 8540.4 | 4144.2 | 965.9 | 189.0 | 138.0 | 118.5 | 117.0 | 127.5 | 130.5 |
| 47.5° | 13308.5 | 12218.1 | 8784.9 | 3709.2 | 505.5 | 180.0 | 133.4 | 108.0 | 100.5 | 105.0 | 106.5 |
| 50° | 13974.6 | 12660.6 | 8876.3 | 3098.8 | 259.5 | 169.5 | 124.5 | 100.5 | 93.0 | 106.5 | 108.0 |
| 52.5° | 14647.9 | 13325.1 | 8888.4 | 2245.3 | 205.5 | 152.9 | 113.9 | 93.0 | 90.0 | 118.5 | 122.9 |
| 55° | 15303.5 | 13809.5 | 8715.9 | 1300.4 | 199.5 | 142.5 | 103.4 | 83.9 | 87.0 | 90.0 | 90.0 |
| 57.5° | 15994.8 | 14389.9 | 8353.0 | 568.4 | 193.5 | 130.5 | 96.0 | 76.5 | 64.5 | 72.0 | 75.0 |
| 60° | 16735.8 | 14891.0 | 7622.5 | 328.5 | 184.5 | 117.0 | 82.5 | 63.0 | 53.9 | 53.9 | 58.5 |
| 62.5° | 17484.3 | 15258.4 | 6427.0 | 240.0 | 175.5 | 109.5 | 72.0 | 55.5 | 45.0 | 45.0 | 48.0 |
| 65° | 17970.3 | 15013.9 | 4957.2 | 212.9 | 169.5 | 99.0 | 63.0 | 48.0 | 36.0 | 34.4 | 37.5 |
| 67.5° | 17881.8 | 14078.0 | 3491.7 | 190.5 | 154.5 | 90.0 | 55.5 | 42.0 | 31.5 | 25.5 | 27.0 |
| 70° | 17148.3 | 12548.2 | 1936.3 | 178.5 | 138.0 | 82.5 | 49.5 | 37.5 | 25.5 | 16.5 | 16.5 |
| 72.5° | 15796.9 | 10544.3 | 743.9 | 160.5 | 122.9 | 72.0 | 45.0 | 36.0 | 22.5 | 9.0 | 7.5 |
| 75° | 13779.5 | 8024.4 | 268.5 | 135.0 | 102.0 | 66.0 | 43.5 | 37.5 | 21.0 | 3.0 | 0.0 |
| 77.5° | 10803.8 | 4490.7 | 159.0 | 100.5 | 76.5 | 57.0 | 46.5 | 37.5 | 12.0 | 0.0 | 0.0 |
| 80° | 5803.1 | 1621.4 | 112.5 | 64.5 | 51.0 | 42.0 | 42.0 | 30.0 | 6.0 | 0.0 | 0.0 |
| 82.5° | 2408.8 | 364.5 | 72.0 | 36.0 | 34.4 | 27.0 | 27.0 | 13.5 | 1.5 | 0.0 | 0.0 |
| 85° | 682.5 | 106.5 | 33.0 | 19.5 | 19.5 | 15.1 | 7.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 58.5 | 22.5 | 9.0 | 10.5 | 7.5 | 3.0 | 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)