

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: P285858

Luminaire Tested: **USSL-XL-C069-D-U-T4-AP-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-10)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C069-D-U-T4-AP-7050-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, GRAY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40226.4 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 285
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

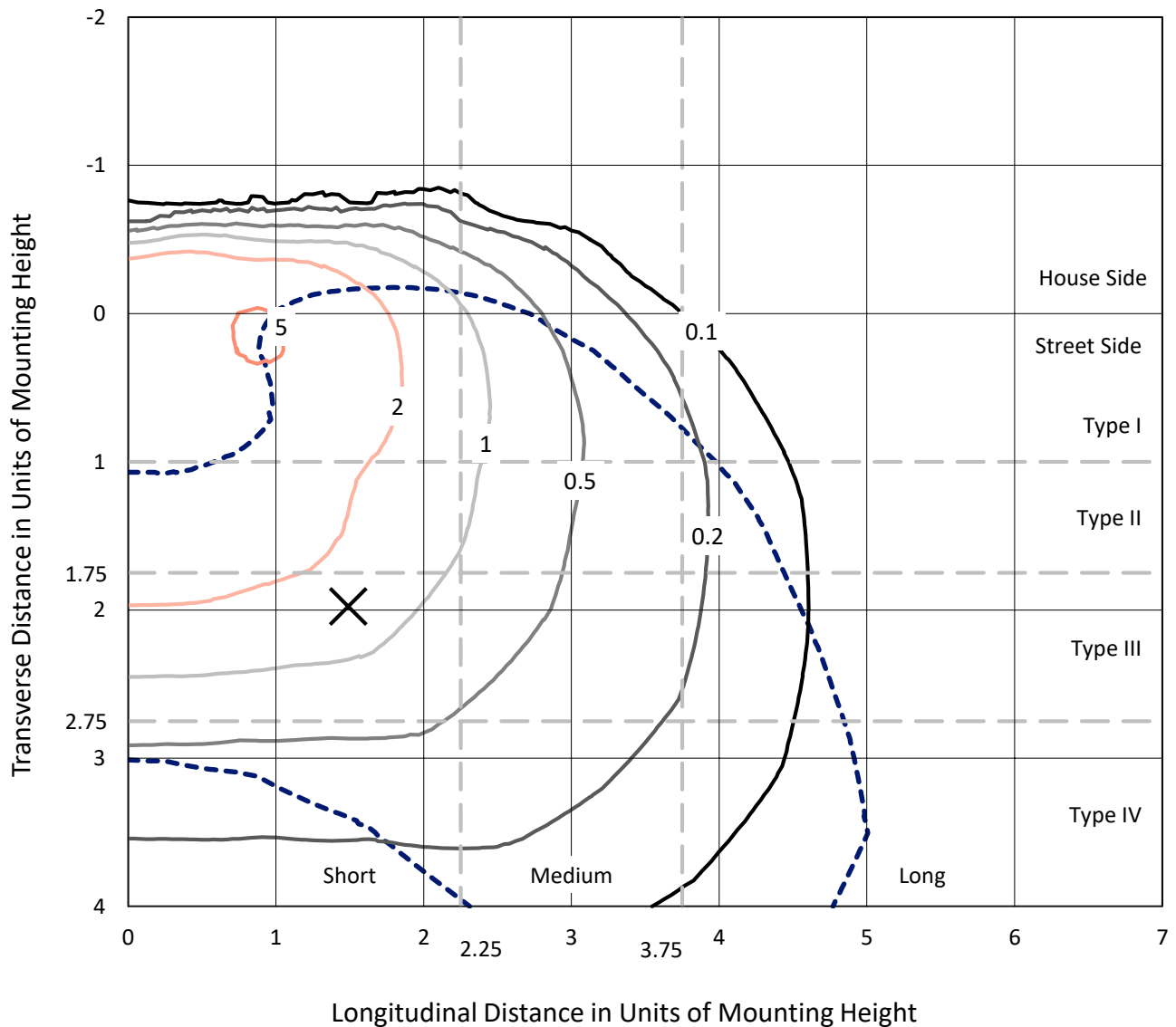


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

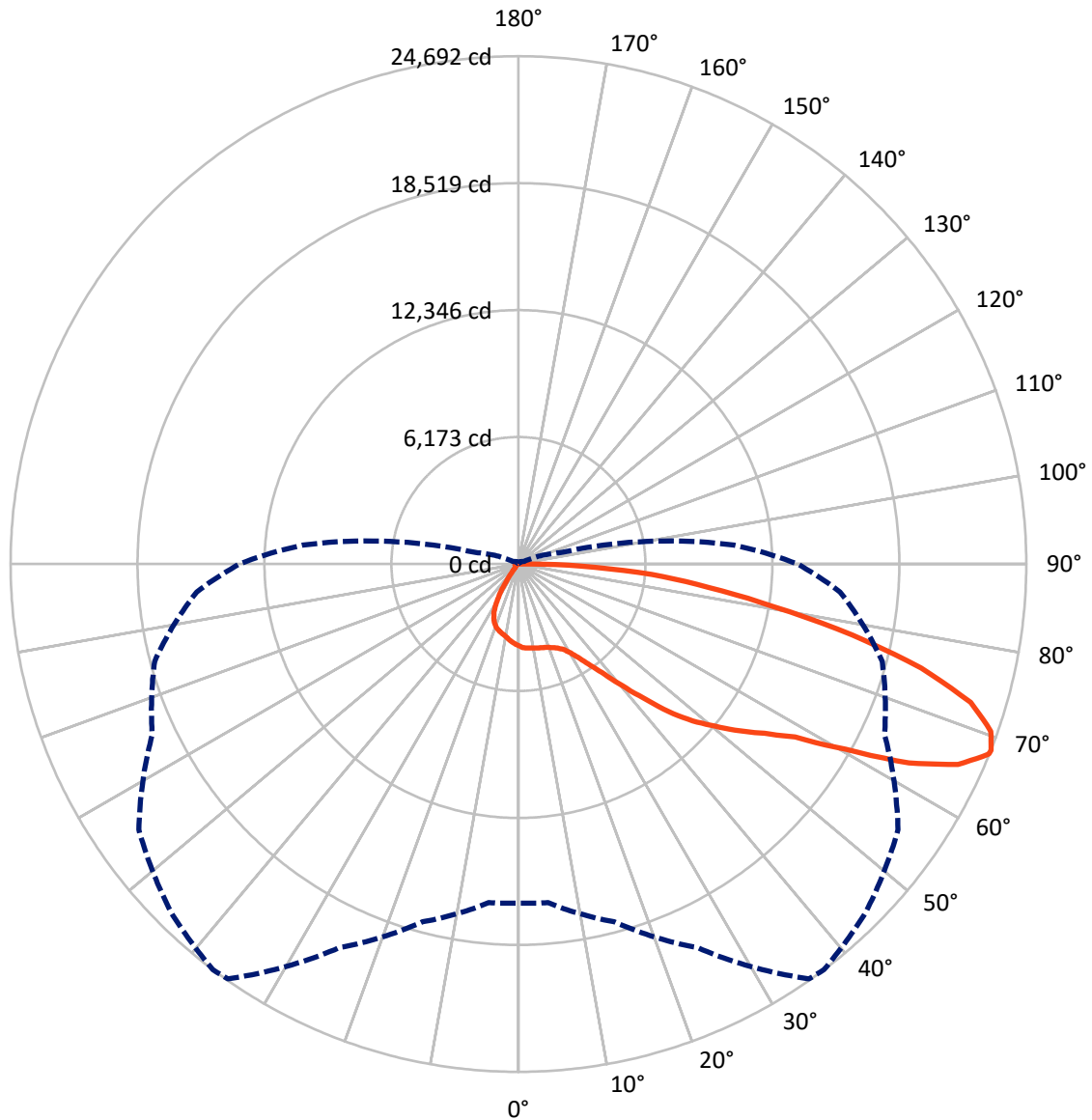


Based on 30 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



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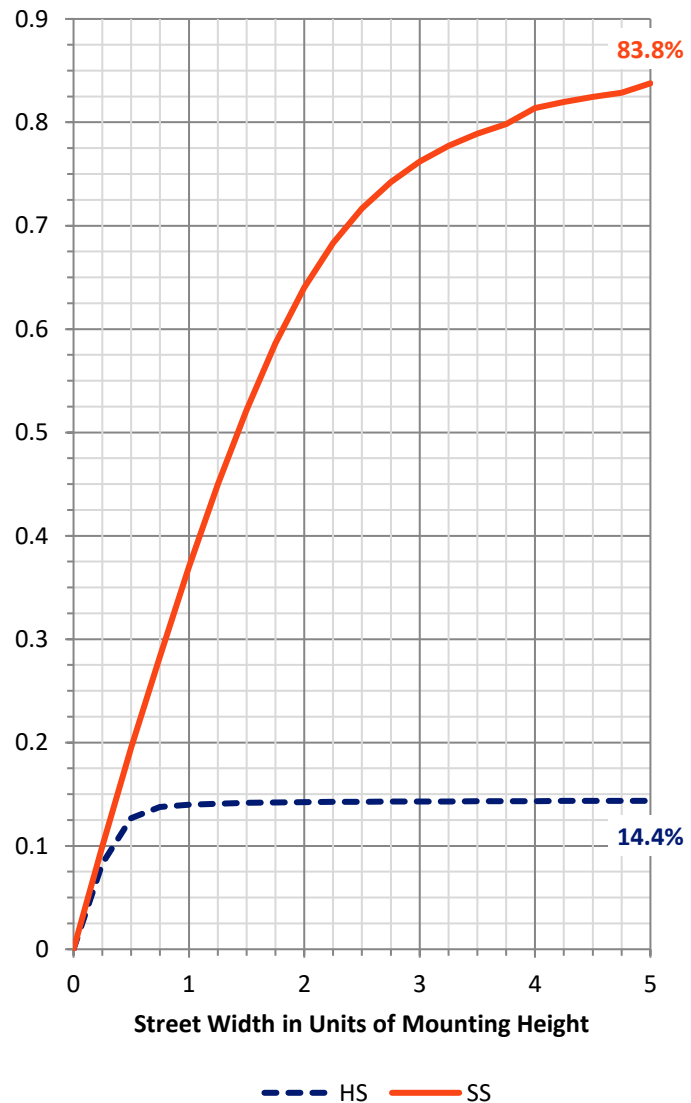
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5843.1 | 0.0 | 5843.1 |
| | % Fixture | 14.5 | 0.0 | 14.5 |
| Street Side | Lumens | 34383.3 | 0.0 | 34383.3 |
| | % Fixture | 85.5 | 0.0 | 85.5 |
| Total | Lumens | 40226.4 | 0.0 | 40226.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 376.0 | 0.9 |
| 10°-20° | 1116.1 | 2.8 |
| 20°-30° | 1865.1 | 4.6 |
| 30°-40° | 3029.4 | 7.5 |
| 40°-50° | 5472.9 | 13.6 |
| 50°-60° | 8152.3 | 20.3 |
| 60°-70° | 10619.8 | 26.4 |
| 70°-80° | 7818.8 | 19.4 |
| 80°-90° | 1776.0 | 4.4 |
| 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° | 40226.4 | 100.0 |
| 0°-180° | 40226.4 | 100.0 |



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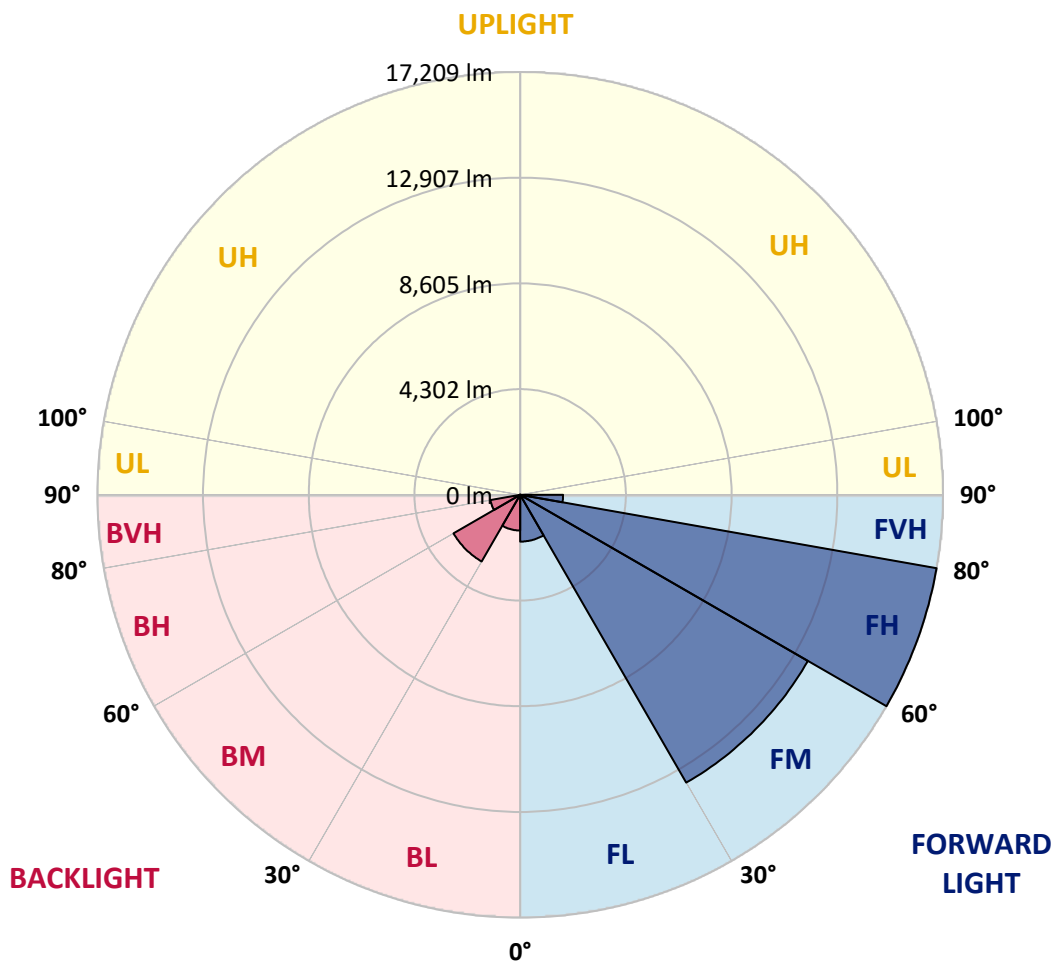
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1904.0 | 4.7 | | | |
| FM | (30°-60°) | 13523.4 | 33.6 | | | |
| FH | (60°-80°) | 17209.1 | 42.8 | | | G5 |
| FVH | (80°-90°) | 1746.8 | 4.3 | | | G5 |
| BL | (0°-30°) | 1453.2 | 3.6 | B3/2500 | | |
| BM | (30°-60°) | 3131.3 | 7.8 | B3/5000 | | |
| BH | (60°-80°) | 1229.5 | 3.1 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 29.1 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 37° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3980.9 | 3980.9 | 3980.9 | 3980.9 | 3980.9 | 3980.9 | 3980.9 | 3980.9 | 3980.9 | 3980.9 | 3980.9 |
| 2.5° | 4067.5 | 4070.9 | 4070.9 | 4065.8 | 4072.6 | 4067.5 | 4055.6 | 4043.7 | 4030.2 | 3975.8 | 3963.9 |
| 5° | 4086.2 | 4094.7 | 4094.7 | 4093.0 | 4103.2 | 4101.5 | 4091.3 | 4081.1 | 4065.8 | 4001.2 | 3979.2 |
| 7.5° | 4096.4 | 4104.9 | 4106.6 | 4103.2 | 4123.5 | 4126.9 | 4120.1 | 4120.1 | 4108.3 | 4043.7 | 4011.4 |
| 10° | 4094.7 | 4096.4 | 4101.5 | 4110.0 | 4142.3 | 4150.8 | 4159.3 | 4172.8 | 4172.8 | 4120.1 | 4082.8 |
| 12.5° | 4050.5 | 4052.2 | 4069.2 | 4108.3 | 4172.8 | 4186.5 | 4211.9 | 4249.4 | 4268.0 | 4239.1 | 4206.8 |
| 15° | 4020.0 | 4020.0 | 4043.7 | 4104.9 | 4203.5 | 4222.1 | 4276.5 | 4334.2 | 4388.6 | 4385.2 | 4378.4 |
| 17.5° | 4047.1 | 4052.2 | 4089.6 | 4142.3 | 4242.5 | 4262.9 | 4334.2 | 4427.7 | 4514.3 | 4551.7 | 4558.5 |
| 20° | 4128.6 | 4133.8 | 4174.5 | 4228.9 | 4315.6 | 4330.9 | 4400.5 | 4512.6 | 4641.8 | 4723.3 | 4770.9 |
| 22.5° | 4249.4 | 4252.7 | 4285.0 | 4325.8 | 4410.7 | 4420.9 | 4488.9 | 4609.5 | 4772.6 | 4911.9 | 4995.2 |
| 25° | 4363.2 | 4370.0 | 4398.8 | 4429.4 | 4524.6 | 4533.1 | 4616.3 | 4743.7 | 4934.0 | 5120.9 | 5273.9 |
| 27.5° | 4478.7 | 4490.6 | 4526.3 | 4568.7 | 4706.4 | 4709.8 | 4786.2 | 4911.9 | 5137.9 | 5392.8 | 5620.4 |
| 30° | 4735.2 | 4721.6 | 4752.3 | 4808.3 | 5002.0 | 5013.9 | 5090.4 | 5231.3 | 5442.1 | 5729.2 | 6058.8 |
| 32.5° | 5171.9 | 5156.6 | 5154.9 | 5238.1 | 5416.5 | 5474.3 | 5557.6 | 5780.2 | 6043.5 | 6329.0 | 6673.9 |
| 35° | 6035.0 | 6011.2 | 5897.4 | 5870.2 | 5975.5 | 6057.1 | 6223.6 | 6549.9 | 6993.2 | 7616.9 | 8009.3 |
| 37.5° | 7469.0 | 7438.4 | 7188.7 | 6894.8 | 6743.5 | 6794.5 | 6933.8 | 7385.7 | 8130.0 | 9450.1 | 9839.2 |
| 40° | 8886.0 | 8892.8 | 8590.4 | 8101.0 | 7771.4 | 7781.6 | 7725.5 | 8247.2 | 9354.9 | 11161.1 | 11319.0 |
| 42.5° | 10240.1 | 10228.2 | 9857.8 | 9411.0 | 8989.6 | 8906.3 | 8697.4 | 9149.4 | 10501.8 | 12540.6 | 12472.7 |
| 45° | 11441.4 | 11417.6 | 11004.7 | 10754.9 | 10292.8 | 10248.6 | 9913.9 | 10065.1 | 11658.8 | 13638.3 | 13405.5 |
| 47.5° | 12588.2 | 12567.9 | 12078.5 | 11842.4 | 11470.2 | 11393.8 | 11079.5 | 11156.0 | 12732.7 | 14501.3 | 14156.4 |
| 50° | 13782.6 | 13823.4 | 13111.5 | 12839.6 | 12498.1 | 12398.0 | 12239.9 | 12285.8 | 13840.4 | 15313.5 | 14796.9 |
| 52.5° | 15233.6 | 15028.0 | 14273.7 | 13770.8 | 13497.2 | 13476.8 | 13274.6 | 13371.5 | 15058.6 | 16027.1 | 15367.8 |
| 55° | 16781.5 | 16509.6 | 15767.2 | 15111.3 | 14497.9 | 14533.7 | 14234.6 | 14377.3 | 16152.8 | 16643.8 | 15818.1 |
| 57.5° | 17838.2 | 17831.4 | 17634.4 | 17007.5 | 15938.8 | 15863.9 | 15310.0 | 15430.8 | 17111.1 | 17281.0 | 16156.3 |
| 60° | 18849.2 | 19126.1 | 19338.5 | 19058.2 | 18540.0 | 18302.1 | 16752.6 | 16528.3 | 17986.1 | 17857.0 | 16349.9 |
| 62.5° | 19528.9 | 19613.8 | 20414.0 | 20650.1 | 21348.5 | 21302.6 | 19635.8 | 17857.0 | 18731.9 | 18230.7 | 16412.8 |
| 65° | 18903.5 | 18973.3 | 20188.0 | 21324.7 | 23399.2 | 23494.4 | 22799.5 | 20050.4 | 19319.9 | 18359.9 | 16283.7 |
| 67.5° | 16965.0 | 17016.0 | 18443.1 | 20796.3 | 24539.3 | 24665.0 | 23854.6 | 22339.1 | 19617.2 | 18337.8 | 15843.6 |
| 68° | 16492.7 | 16528.3 | 18009.9 | 20573.7 | 24624.2 | 24692.2 | 23907.2 | 22529.3 | 19641.0 | 18312.3 | 15700.8 |
| 70° | 14465.6 | 14458.8 | 15858.9 | 19251.9 | 24349.0 | 24369.4 | 23603.1 | 22736.7 | 19547.5 | 18071.1 | 14790.2 |
| 72.5° | 11184.8 | 11402.3 | 12569.6 | 16215.7 | 22831.7 | 22994.8 | 22595.6 | 22164.0 | 19150.0 | 17095.8 | 12610.3 |
| 75° | 7958.4 | 8128.3 | 9327.8 | 12646.0 | 19708.9 | 20223.7 | 20932.3 | 21090.2 | 17705.7 | 14693.3 | 9290.3 |
| 77.5° | 5552.5 | 5732.6 | 6853.9 | 9445.0 | 15932.0 | 16604.7 | 18099.9 | 18334.4 | 14892.1 | 11138.9 | 4740.3 |
| 80° | 3552.7 | 3724.3 | 4754.0 | 6869.2 | 12029.2 | 12603.5 | 14238.0 | 13899.8 | 10421.9 | 5967.0 | 830.9 |
| 82.5° | 2159.4 | 2246.1 | 3024.3 | 4697.9 | 8767.1 | 9300.6 | 9844.2 | 8347.5 | 4988.4 | 844.4 | 266.8 |
| 85° | 1226.7 | 1287.9 | 1855.4 | 3034.5 | 6193.0 | 6502.3 | 6624.6 | 4166.0 | 1038.1 | 227.7 | 152.9 |
| 87.5° | 326.2 | 453.6 | 1002.5 | 1870.6 | 3116.0 | 3036.2 | 3272.3 | 1491.8 | 186.9 | 98.6 | 73.0 |
| 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° | 3980.9 | 3980.9 | 3980.9 | 3980.9 | 3980.9 | 3980.9 | 3980.9 | 3980.9 | 3980.9 | 3980.9 | 3980.9 |
| 2.5° | 3950.2 | 3946.9 | 3935.0 | 3929.9 | 3935.0 | 3929.9 | 3892.5 | 3895.9 | 3895.9 | 3877.2 | 3865.3 |
| 5° | 3958.7 | 3950.2 | 3912.9 | 3906.2 | 3885.7 | 3853.5 | 3792.2 | 3778.6 | 3766.8 | 3736.1 | 3731.1 |
| 7.5° | 3982.6 | 3970.7 | 3911.2 | 3884.0 | 3827.9 | 3770.2 | 3687.0 | 3637.7 | 3613.8 | 3576.5 | 3581.6 |
| 10° | 4052.2 | 4026.8 | 3941.8 | 3889.1 | 3783.7 | 3688.7 | 3567.9 | 3493.2 | 3449.0 | 3393.0 | 3411.7 |
| 12.5° | 4177.9 | 4138.9 | 4033.6 | 3941.8 | 3780.3 | 3639.4 | 3467.8 | 3330.1 | 3260.5 | 3195.9 | 3214.6 |
| 15° | 4349.5 | 4307.1 | 4177.9 | 4038.6 | 3824.5 | 3618.9 | 3382.8 | 3165.3 | 3039.6 | 2956.4 | 2961.5 |
| 17.5° | 4541.6 | 4504.2 | 4356.4 | 4171.1 | 3892.5 | 3605.4 | 3285.9 | 2993.7 | 2764.3 | 2645.4 | 2642.0 |
| 20° | 4745.4 | 4723.3 | 4561.9 | 4312.2 | 3962.2 | 3574.8 | 3161.9 | 2774.5 | 2458.5 | 2258.0 | 2241.1 |
| 22.5° | 4979.9 | 4969.7 | 4781.1 | 4451.5 | 3994.4 | 3505.1 | 2995.4 | 2502.7 | 2083.0 | 1811.2 | 1794.2 |
| 25° | 5287.4 | 5272.2 | 4998.6 | 4548.3 | 3980.9 | 3387.9 | 2762.6 | 2176.5 | 1607.3 | 1294.7 | 1281.1 |
| 27.5° | 5657.9 | 5581.3 | 5190.5 | 4597.6 | 3914.6 | 3202.7 | 2458.5 | 1692.2 | 1080.6 | 796.8 | 790.0 |
| 30° | 6074.1 | 5924.5 | 5358.7 | 4602.7 | 3792.2 | 2944.4 | 2011.7 | 1094.1 | 628.6 | 448.5 | 445.2 |
| 32.5° | 6614.4 | 6351.0 | 5540.6 | 4573.8 | 3605.4 | 2596.1 | 1437.4 | 626.9 | 316.1 | 241.2 | 241.2 |
| 35° | 7678.0 | 7103.7 | 5773.4 | 4499.1 | 3345.5 | 2098.3 | 886.9 | 304.1 | 185.2 | 181.8 | 183.5 |
| 37.5° | 9258.1 | 8321.9 | 6154.0 | 4378.4 | 2998.8 | 1512.2 | 455.3 | 169.9 | 169.9 | 176.7 | 178.4 |
| 40° | 10653.1 | 9596.2 | 6702.7 | 4208.5 | 2538.4 | 956.6 | 217.5 | 159.7 | 169.9 | 171.6 | 175.0 |
| 42.5° | 11757.4 | 10619.0 | 7282.1 | 3951.9 | 1998.1 | 509.7 | 181.8 | 154.6 | 158.0 | 156.3 | 163.1 |
| 45° | 12640.9 | 11426.0 | 7729.0 | 3615.5 | 1410.2 | 261.7 | 188.6 | 149.6 | 137.6 | 137.6 | 141.1 |
| 47.5° | 13329.0 | 12039.4 | 8009.3 | 3250.3 | 858.0 | 210.7 | 188.6 | 132.5 | 124.0 | 125.7 | 127.4 |
| 50° | 13933.9 | 12498.1 | 8106.1 | 2800.0 | 431.6 | 214.1 | 181.8 | 125.7 | 110.4 | 112.1 | 115.5 |
| 52.5° | 14368.9 | 12821.0 | 8033.1 | 2241.1 | 237.8 | 217.5 | 173.3 | 115.5 | 95.2 | 103.7 | 107.0 |
| 55° | 14696.8 | 12973.9 | 7791.9 | 1593.7 | 215.8 | 214.1 | 168.2 | 103.7 | 85.0 | 102.0 | 107.0 |
| 57.5° | 14881.9 | 13024.9 | 7382.3 | 1038.1 | 236.1 | 188.6 | 154.6 | 95.2 | 79.8 | 100.3 | 107.0 |
| 60° | 14958.4 | 12931.4 | 6791.1 | 608.3 | 241.2 | 166.5 | 144.5 | 88.4 | 73.0 | 83.2 | 86.7 |
| 62.5° | 14878.6 | 12691.9 | 5921.1 | 384.0 | 220.9 | 158.0 | 137.6 | 83.2 | 61.2 | 59.5 | 57.8 |
| 65° | 14560.8 | 12098.9 | 4483.8 | 307.5 | 205.6 | 158.0 | 129.1 | 73.0 | 47.6 | 35.7 | 32.3 |
| 67.5° | 13801.4 | 10875.6 | 2536.7 | 304.1 | 200.5 | 154.6 | 117.2 | 66.2 | 37.4 | 18.7 | 15.3 |
| 68° | 13572.0 | 10523.9 | 2137.4 | 309.3 | 205.6 | 154.6 | 115.5 | 62.9 | 35.7 | 15.3 | 11.9 |
| 70° | 12173.7 | 8626.1 | 737.4 | 297.3 | 234.4 | 163.1 | 110.4 | 54.4 | 28.9 | 6.8 | 5.1 |
| 72.5° | 9270.0 | 5299.3 | 326.2 | 239.5 | 258.3 | 169.9 | 110.4 | 52.7 | 23.7 | 1.7 | 0.0 |
| 75° | 5389.4 | 1304.8 | 278.6 | 161.4 | 215.8 | 202.2 | 127.4 | 61.2 | 22.0 | 0.0 | 0.0 |
| 77.5° | 1306.5 | 300.7 | 242.9 | 93.5 | 169.9 | 220.9 | 151.2 | 67.9 | 23.7 | 0.0 | 0.0 |
| 80° | 311.0 | 234.4 | 236.1 | 59.5 | 135.9 | 197.1 | 130.8 | 73.0 | 34.0 | 0.0 | 0.0 |
| 82.5° | 205.6 | 185.2 | 210.7 | 32.3 | 78.1 | 146.2 | 91.8 | 45.9 | 42.5 | 0.0 | 0.0 |
| 85° | 139.3 | 169.9 | 120.6 | 18.7 | 30.6 | 49.3 | 37.4 | 6.8 | 8.5 | 0.0 | 0.0 |
| 87.5° | 78.1 | 49.3 | 20.4 | 8.5 | 6.8 | 5.1 | 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)