

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: P193196

Luminaire Tested: **GAN-AF-08-LED-U-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-T3-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46147.8 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

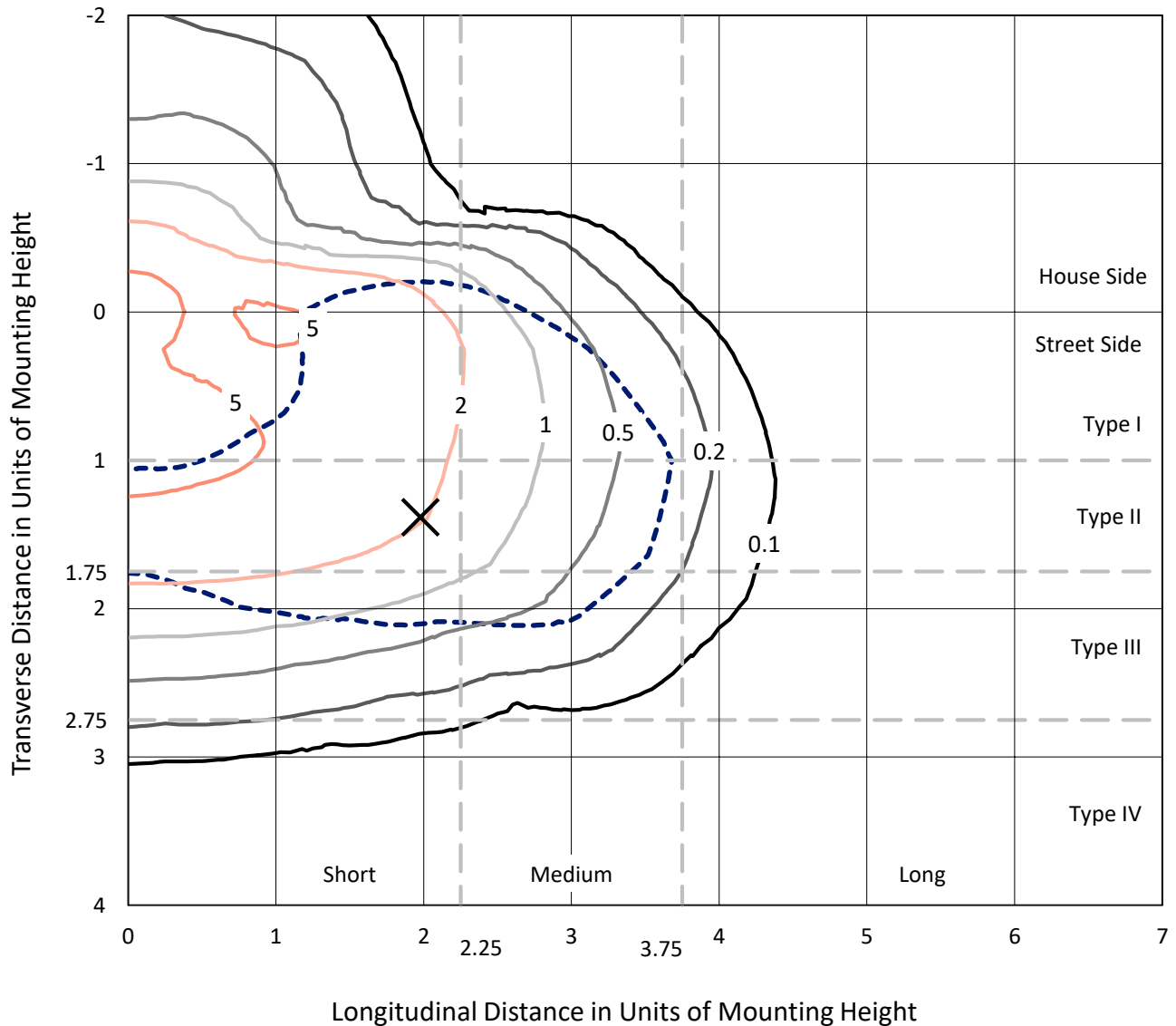
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

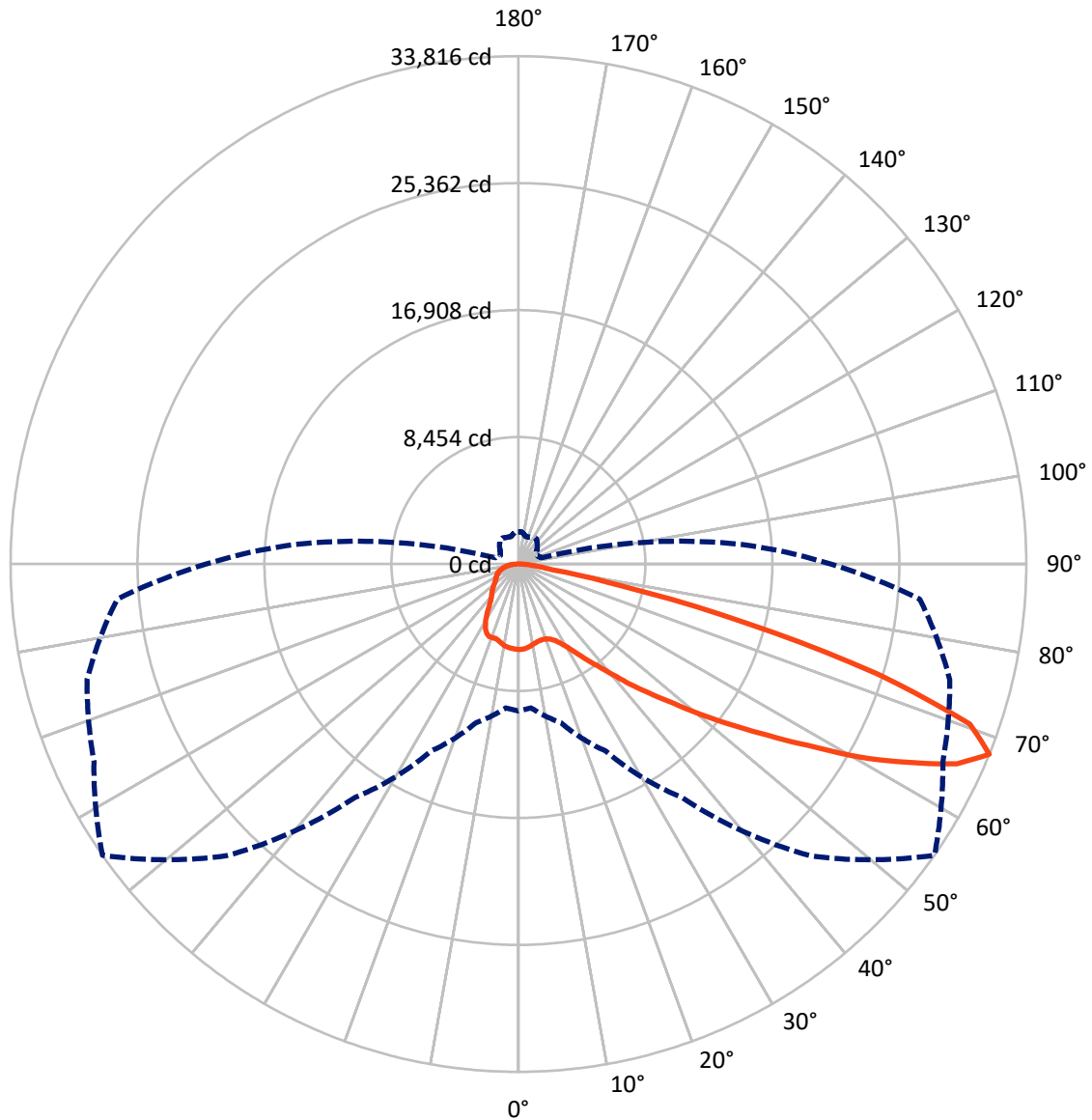
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9968.9 | 0.0 | 9968.9 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 36178.9 | 0.0 | 36178.9 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 46147.8 | 0.0 | 46147.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 531.2 | 1.2 |
| 10°-20° | 1504.3 | 3.3 |
| 20°-30° | 2519.9 | 5.5 |
| 30°-40° | 4143.8 | 9.0 |
| 40°-50° | 6975.3 | 15.1 |
| 50°-60° | 10978.5 | 23.8 |
| 60°-70° | 13101.7 | 28.4 |
| 70°-80° | 5626.1 | 12.2 |
| 80°-90° | 767.1 | 1.7 |
| 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° | 46147.8 | 100.0 |
| 0°-180° | 46147.8 | 100.0 |



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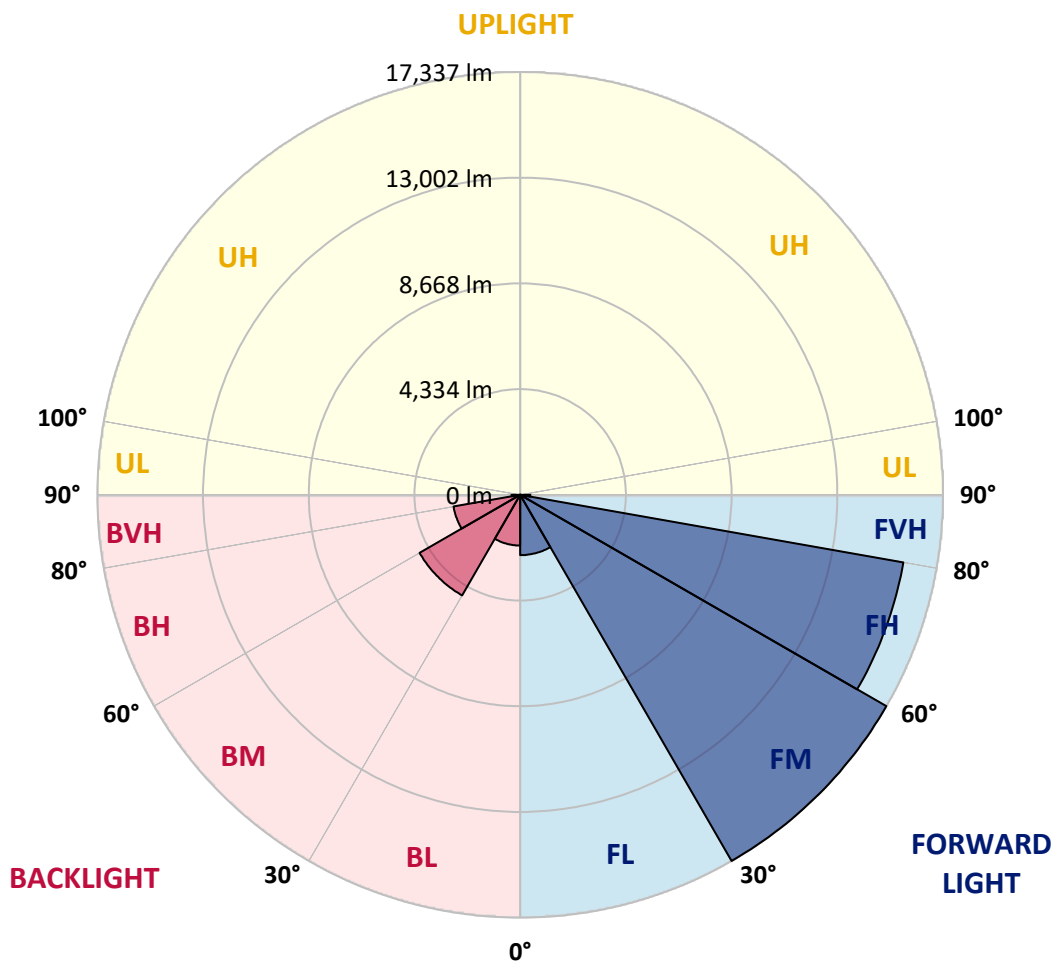
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2473.6 | 5.4 | | | |
| FM | (30°-60°) | 17336.5 | 37.6 | | | |
| FH | (60°-80°) | 15953.5 | 34.6 | | | G5 |
| FVH | (80°-90°) | 415.2 | 0.9 | | | G3/500 |
| BL | (0°-30°) | 2081.7 | 4.5 | B3/2500 | | |
| BM | (30°-60°) | 4761.1 | 10.3 | B3/5000 | | |
| BH | (60°-80°) | 2774.3 | 6.0 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 351.8 | 0.8 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5690.6 | 5690.6 | 5690.6 | 5690.6 | 5690.6 | 5690.6 | 5690.6 | 5690.6 | 5690.6 | 5690.6 | 5690.6 |
| 2.5° | 5641.5 | 5643.7 | 5648.1 | 5665.9 | 5681.6 | 5677.1 | 5679.4 | 5670.4 | 5668.3 | 5654.8 | 5668.3 |
| 5° | 5570.1 | 5576.8 | 5579.1 | 5608.1 | 5625.9 | 5630.3 | 5623.7 | 5612.5 | 5599.1 | 5585.8 | 5592.4 |
| 7.5° | 5407.5 | 5425.3 | 5427.6 | 5467.7 | 5496.7 | 5534.5 | 5536.7 | 5539.0 | 5532.3 | 5523.4 | 5536.7 |
| 10° | 5305.0 | 5309.4 | 5307.2 | 5336.1 | 5358.4 | 5400.8 | 5425.3 | 5467.7 | 5485.5 | 5489.9 | 5498.8 |
| 12.5° | 5298.2 | 5293.8 | 5287.0 | 5287.0 | 5280.4 | 5298.2 | 5342.8 | 5403.0 | 5445.4 | 5458.7 | 5469.8 |
| 15° | 5369.5 | 5367.4 | 5345.1 | 5311.6 | 5269.2 | 5255.9 | 5293.8 | 5360.7 | 5416.4 | 5445.4 | 5456.5 |
| 17.5° | 5530.0 | 5516.7 | 5481.0 | 5405.3 | 5313.9 | 5278.2 | 5282.6 | 5338.4 | 5403.0 | 5440.9 | 5452.0 |
| 20° | 5824.3 | 5824.3 | 5748.4 | 5605.9 | 5443.1 | 5358.4 | 5318.3 | 5351.7 | 5414.2 | 5465.3 | 5481.0 |
| 22.5° | 6332.4 | 6336.9 | 6209.9 | 5975.8 | 5701.7 | 5521.1 | 5420.8 | 5414.2 | 5487.6 | 5545.7 | 5563.5 |
| 25° | 7052.4 | 7034.5 | 6856.2 | 6521.9 | 6105.1 | 5806.5 | 5632.6 | 5592.4 | 5654.8 | 5719.5 | 5741.8 |
| 27.5° | 7890.4 | 7825.9 | 7614.2 | 7210.7 | 6671.3 | 6234.5 | 5966.9 | 5902.3 | 5962.5 | 6036.0 | 6058.3 |
| 30° | 8719.7 | 8652.8 | 8401.0 | 7959.6 | 7360.0 | 6807.3 | 6423.9 | 6319.1 | 6403.8 | 6508.6 | 6521.9 |
| 32.5° | 9548.8 | 9548.8 | 9268.0 | 8753.1 | 8100.1 | 7491.6 | 7032.4 | 6907.6 | 7048.0 | 7175.0 | 7204.0 |
| 35° | 10540.8 | 10545.1 | 10273.3 | 9653.6 | 8951.5 | 8307.3 | 7801.3 | 7710.0 | 7921.8 | 8010.9 | 8079.9 |
| 37.5° | 11760.0 | 11784.4 | 11434.5 | 10685.7 | 9916.6 | 9239.1 | 8637.2 | 8512.4 | 8724.2 | 8967.1 | 9190.1 |
| 40° | 13077.4 | 13108.5 | 12722.9 | 11800.1 | 11031.2 | 10322.3 | 9671.4 | 9446.3 | 9798.5 | 10262.1 | 10549.6 |
| 42.5° | 14334.5 | 14494.9 | 14122.7 | 13173.2 | 12346.2 | 11612.8 | 10953.1 | 10625.5 | 11066.8 | 11766.6 | 12016.4 |
| 45° | 16151.0 | 16266.9 | 15618.3 | 14757.9 | 13980.0 | 13159.7 | 12285.9 | 11940.5 | 12557.9 | 13440.6 | 13491.9 |
| 47.5° | 17361.4 | 17274.4 | 16944.6 | 16409.6 | 15917.0 | 15150.2 | 13835.2 | 13456.3 | 14276.5 | 15315.2 | 15027.6 |
| 50° | 18005.5 | 18032.2 | 17987.7 | 18018.9 | 18036.7 | 17555.2 | 15734.2 | 15214.9 | 16193.5 | 17448.2 | 16786.3 |
| 52.5° | 18607.4 | 18429.0 | 18576.1 | 19307.2 | 20189.9 | 20011.6 | 17800.5 | 17258.8 | 18248.5 | 19815.5 | 18645.2 |
| 55° | 18594.0 | 18322.0 | 18801.3 | 20091.8 | 22006.6 | 22211.6 | 20120.8 | 19496.7 | 20421.7 | 22354.2 | 20615.7 |
| 57.5° | 17936.4 | 17949.7 | 18687.6 | 20377.2 | 23272.5 | 24280.0 | 22813.5 | 21877.2 | 22726.5 | 24926.4 | 22414.4 |
| 60° | 17031.5 | 17154.0 | 18217.3 | 20330.3 | 24286.7 | 25976.3 | 26116.7 | 24442.7 | 24984.5 | 27264.7 | 23903.3 |
| 62.5° | 15571.5 | 15700.8 | 17167.5 | 19844.4 | 24132.9 | 27610.2 | 29103.5 | 27353.8 | 27344.9 | 28682.2 | 24340.2 |
| 65° | 13269.0 | 13231.1 | 14771.3 | 18027.8 | 22842.4 | 28818.2 | 32070.3 | 29870.3 | 29123.6 | 28704.5 | 23462.0 |
| 67.5° | 9785.1 | 9615.7 | 10937.5 | 13730.4 | 18986.3 | 27465.3 | 33815.5 | 31181.0 | 29729.9 | 26816.6 | 20778.4 |
| 70° | 5077.6 | 4908.2 | 5978.1 | 8017.6 | 12486.5 | 21435.9 | 31883.1 | 30503.3 | 28390.3 | 22479.0 | 16278.1 |
| 72.5° | 2171.0 | 2142.0 | 2576.7 | 3517.3 | 6040.5 | 12364.0 | 25000.0 | 26402.1 | 24360.3 | 16748.4 | 11191.7 |
| 75° | 1459.9 | 1451.1 | 1613.8 | 1917.0 | 2717.1 | 5017.4 | 15645.1 | 18741.1 | 17822.8 | 10384.8 | 6294.5 |
| 77.5° | 1145.7 | 1134.5 | 1230.4 | 1377.5 | 1760.9 | 1979.3 | 6943.2 | 10061.4 | 9312.6 | 4520.3 | 2755.0 |
| 80° | 896.0 | 887.0 | 947.3 | 1027.6 | 1266.1 | 1248.2 | 2284.7 | 4003.3 | 3098.3 | 1731.9 | 1339.6 |
| 82.5° | 706.6 | 706.6 | 755.6 | 757.8 | 898.2 | 851.4 | 1192.4 | 1763.1 | 1546.9 | 1009.7 | 820.2 |
| 85° | 646.4 | 646.4 | 697.6 | 566.2 | 586.1 | 537.2 | 740.0 | 1045.4 | 980.7 | 414.6 | 356.6 |
| 87.5° | 325.4 | 316.6 | 586.1 | 501.5 | 318.7 | 285.2 | 361.1 | 506.0 | 543.9 | 229.6 | 178.3 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5690.6 | 5690.6 | 5690.6 | 5690.6 | 5690.6 | 5690.6 | 5690.6 | 5690.6 | 5690.6 | 5690.6 |
| 2.5° | 5663.8 | 5661.6 | 5665.9 | 5668.3 | 5686.1 | 5710.6 | 5721.7 | 5737.3 | 5746.3 | 5741.8 |
| 5° | 5597.0 | 5601.4 | 5619.2 | 5632.6 | 5663.8 | 5703.9 | 5726.2 | 5744.0 | 5759.6 | 5752.9 |
| 7.5° | 5541.2 | 5552.3 | 5579.1 | 5590.2 | 5608.1 | 5619.2 | 5617.0 | 5623.7 | 5637.0 | 5621.4 |
| 10° | 5510.0 | 5523.4 | 5543.4 | 5527.9 | 5485.5 | 5425.3 | 5369.5 | 5340.6 | 5349.6 | 5338.4 |
| 12.5° | 5478.8 | 5496.7 | 5481.0 | 5407.5 | 5289.3 | 5211.3 | 5168.9 | 5173.4 | 5193.4 | 5197.9 |
| 15° | 5461.0 | 5467.7 | 5400.8 | 5262.6 | 5142.2 | 5131.1 | 5153.3 | 5148.9 | 5151.1 | 5151.1 |
| 17.5° | 5461.0 | 5443.1 | 5318.3 | 5180.1 | 5128.8 | 5108.8 | 5039.7 | 4952.7 | 4914.8 | 4901.5 |
| 20° | 5489.9 | 5443.1 | 5291.5 | 5200.2 | 5088.8 | 4917.1 | 4734.3 | 4573.8 | 4502.5 | 4482.5 |
| 22.5° | 5576.8 | 5496.7 | 5367.4 | 5209.1 | 4892.5 | 4605.1 | 4315.3 | 4123.6 | 3994.3 | 3972.0 |
| 25° | 5752.9 | 5663.8 | 5516.7 | 5090.9 | 4580.4 | 4170.4 | 3840.5 | 3626.6 | 3497.3 | 3479.4 |
| 27.5° | 6060.5 | 6002.6 | 5597.0 | 4830.2 | 4165.9 | 3726.9 | 3421.5 | 3256.5 | 3160.7 | 3154.0 |
| 30° | 6524.2 | 6495.1 | 5556.8 | 4444.5 | 3655.5 | 3296.7 | 3149.5 | 3053.7 | 2982.3 | 2980.1 |
| 32.5° | 7264.2 | 7030.2 | 5425.3 | 3974.2 | 3189.6 | 2991.3 | 2931.1 | 2873.1 | 2817.4 | 2817.4 |
| 35° | 8216.0 | 7462.5 | 5175.6 | 3470.5 | 2906.6 | 2821.8 | 2746.1 | 2654.7 | 2581.1 | 2576.7 |
| 37.5° | 9334.9 | 7730.0 | 4727.6 | 3064.8 | 2772.8 | 2708.2 | 2596.8 | 2460.7 | 2331.5 | 2309.2 |
| 40° | 10465.0 | 7810.3 | 4096.7 | 2815.2 | 2688.1 | 2594.5 | 2458.6 | 2298.0 | 2173.2 | 2166.5 |
| 42.5° | 11501.4 | 7656.5 | 3428.1 | 2643.5 | 2603.4 | 2478.6 | 2336.0 | 2193.3 | 2095.3 | 2093.0 |
| 45° | 12370.8 | 7257.4 | 2866.4 | 2480.8 | 2514.3 | 2373.8 | 2246.8 | 2130.9 | 2055.0 | 2039.6 |
| 47.5° | 13188.8 | 6693.6 | 2471.9 | 2309.2 | 2425.1 | 2315.9 | 2208.9 | 2099.6 | 2026.1 | 2015.0 |
| 50° | 14138.2 | 6085.0 | 2195.6 | 2142.0 | 2347.1 | 2295.9 | 2240.2 | 2126.4 | 2003.9 | 1990.4 |
| 52.5° | 15288.4 | 5559.0 | 1979.3 | 1995.0 | 2286.9 | 2322.6 | 2320.3 | 2202.2 | 1988.2 | 1970.4 |
| 55° | 16572.3 | 4975.0 | 1816.7 | 1874.6 | 2262.4 | 2371.6 | 2340.5 | 2273.5 | 2001.6 | 1974.9 |
| 57.5° | 17836.1 | 4293.1 | 1703.0 | 1783.2 | 2226.7 | 2367.1 | 2244.5 | 2148.7 | 2032.8 | 1995.0 |
| 60° | 18783.5 | 3376.8 | 1616.0 | 1703.0 | 2148.7 | 2293.6 | 2139.9 | 2012.8 | 2026.1 | 1997.2 |
| 62.5° | 18845.8 | 2610.1 | 1511.3 | 1633.9 | 2030.6 | 2220.0 | 2070.7 | 1952.6 | 2055.0 | 2028.4 |
| 65° | 17738.0 | 1972.6 | 1411.0 | 1551.4 | 1903.6 | 2173.2 | 2003.9 | 1919.1 | 2115.3 | 2086.3 |
| 67.5° | 14934.0 | 1587.0 | 1326.2 | 1466.7 | 1776.4 | 2075.2 | 1943.6 | 1887.9 | 2168.8 | 2117.6 |
| 70° | 10781.4 | 1352.9 | 1243.8 | 1364.1 | 1662.8 | 1963.7 | 1890.1 | 1832.2 | 2023.9 | 1943.6 |
| 72.5° | 6637.8 | 1172.5 | 1150.2 | 1228.2 | 1575.8 | 1847.8 | 1809.9 | 1727.4 | 1823.3 | 1758.6 |
| 75° | 3314.5 | 1016.4 | 1045.4 | 1094.4 | 1453.2 | 1716.3 | 1676.1 | 1593.6 | 1607.1 | 1593.6 |
| 77.5° | 1587.0 | 869.2 | 922.8 | 960.7 | 1295.0 | 1567.0 | 1524.6 | 1439.9 | 1424.3 | 1426.5 |
| 80° | 1005.3 | 726.7 | 777.9 | 804.7 | 1156.8 | 1393.0 | 1350.8 | 1266.1 | 1444.4 | 1339.6 |
| 82.5° | 628.6 | 590.6 | 604.1 | 653.1 | 1007.5 | 1212.6 | 1156.8 | 1081.0 | 1301.8 | 1029.8 |
| 85° | 347.7 | 412.4 | 430.2 | 472.5 | 775.6 | 1014.2 | 958.4 | 862.6 | 773.4 | 760.1 |
| 87.5° | 207.3 | 245.2 | 251.9 | 283.1 | 521.6 | 733.3 | 648.7 | 615.2 | 510.5 | 508.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)