

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: P193996

Luminaire Tested: **GAN-AF-08-LED-U-T3-8030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193996
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-T3-8030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 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: 38935 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

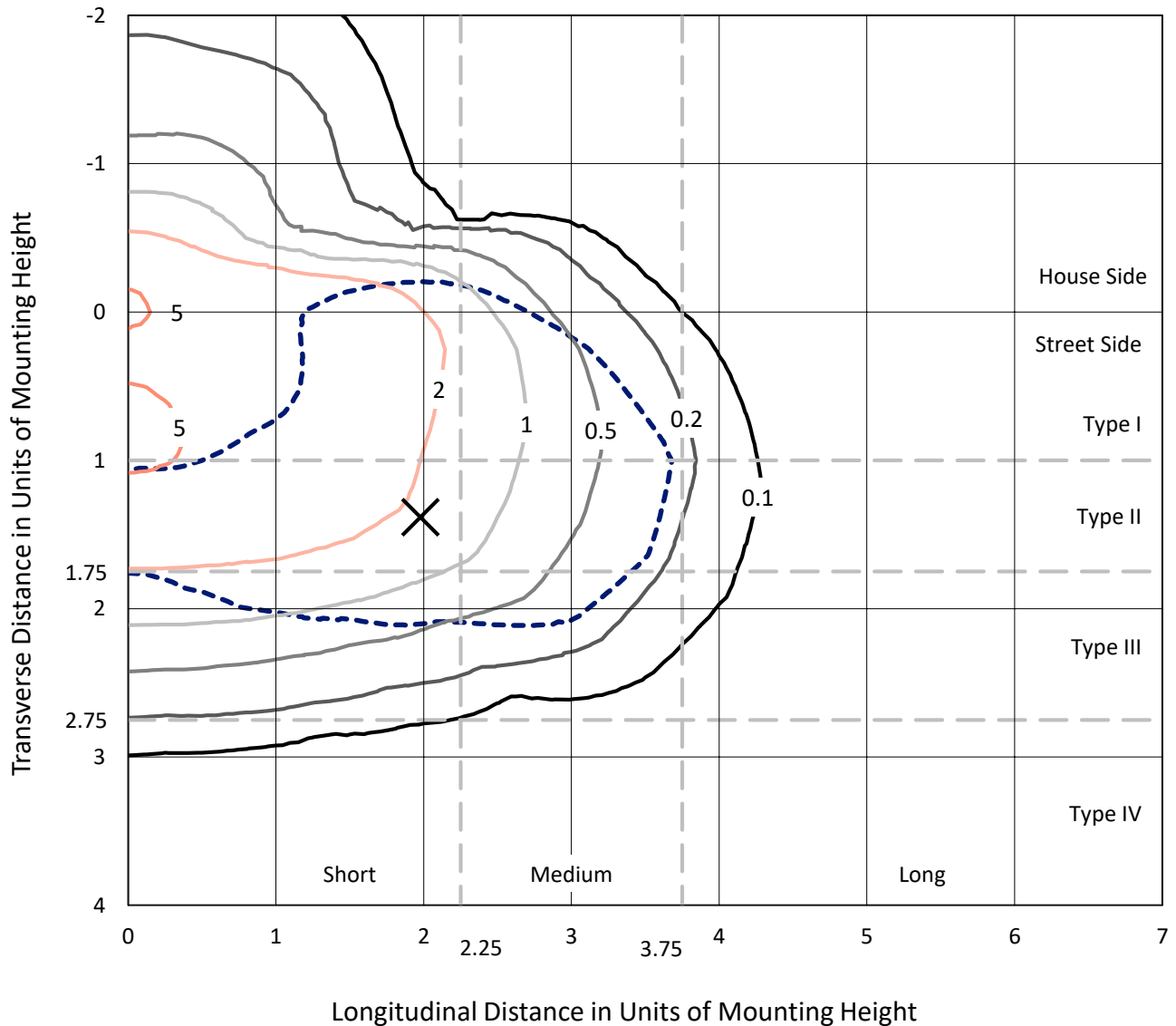
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

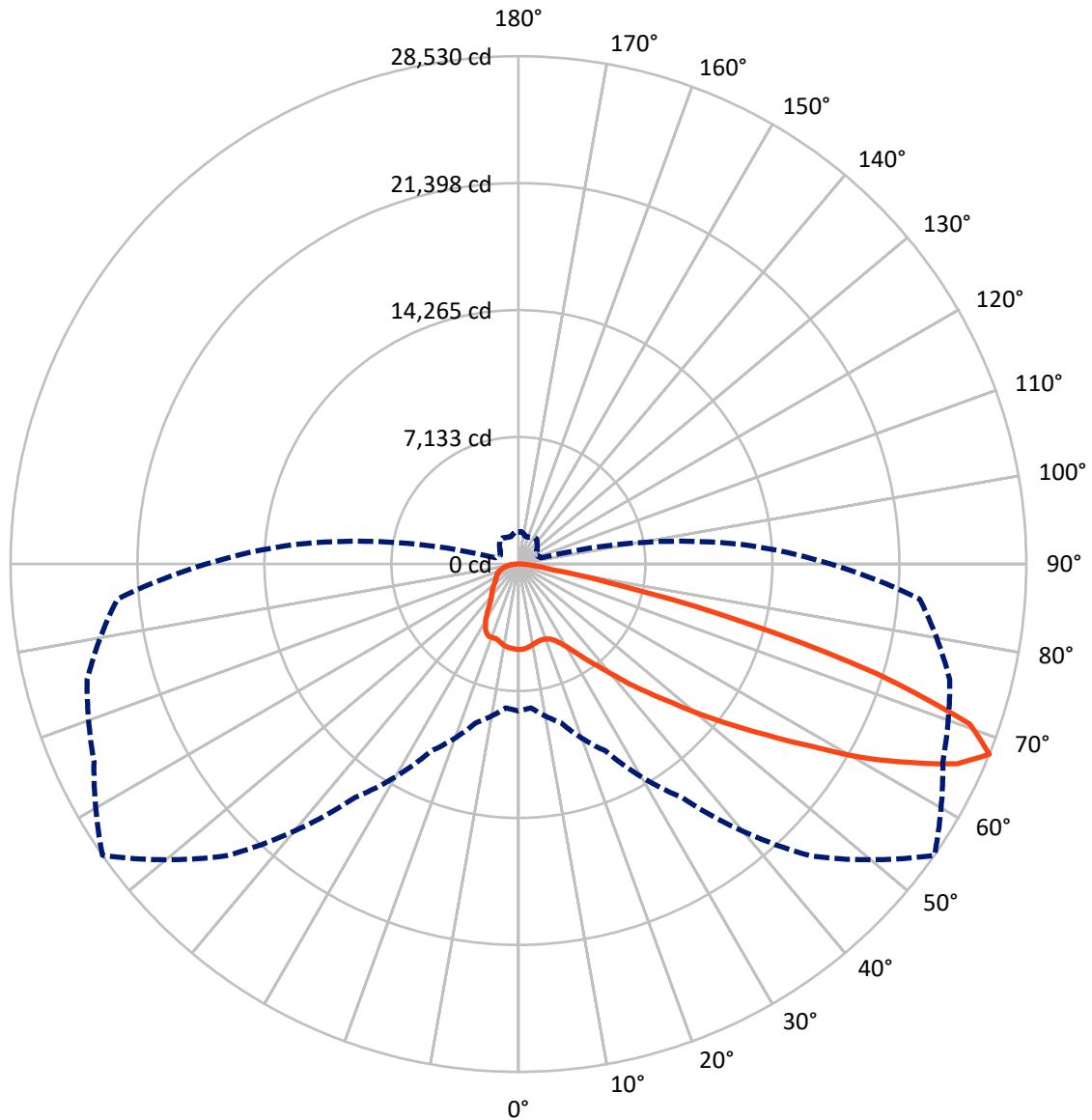
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 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 | 8410.8 | 0.0 | 8410.8 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 30524.2 | 0.0 | 30524.2 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 38935.0 | 0.0 | 38935.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 448.1 | 1.2 |
| 10°-20° | 1269.2 | 3.3 |
| 20°-30° | 2126.0 | 5.5 |
| 30°-40° | 3496.1 | 9.0 |
| 40°-50° | 5885.0 | 15.1 |
| 50°-60° | 9262.6 | 23.8 |
| 60°-70° | 11053.9 | 28.4 |
| 70°-80° | 4746.8 | 12.2 |
| 80°-90° | 647.2 | 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° | 38935.0 | 100.0 |
| 0°-180° | 38935.0 | 100.0 |

Coefficient of Utilization



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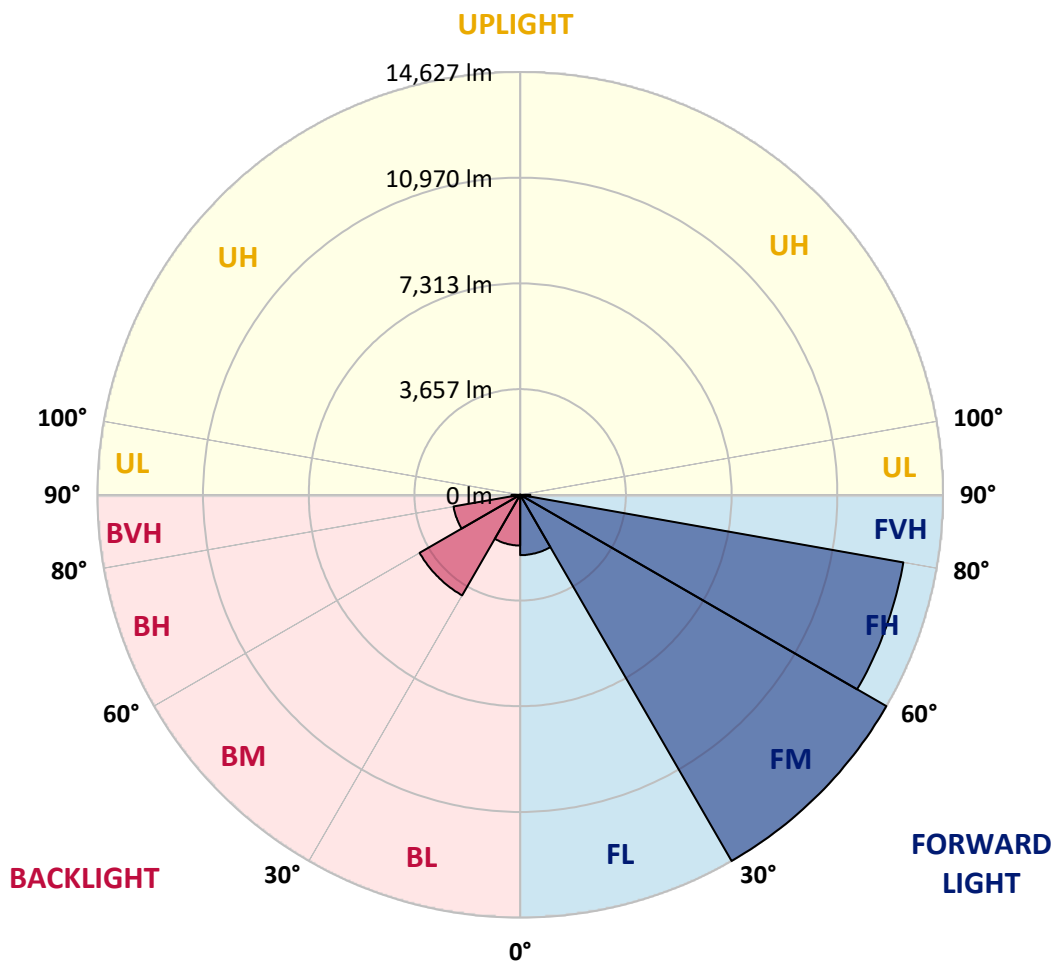
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2087.0 | 5.4 | | | |
| FM | (30°-60°) | 14626.9 | 37.6 | | | |
| FH | (60°-80°) | 13460.0 | 34.6 | | | G5 |
| FVH | (80°-90°) | 350.3 | 0.9 | | | G3/500 |
| BL | (0°-30°) | 1756.3 | 4.5 | B3/2500 | | |
| BM | (30°-60°) | 4016.9 | 10.3 | B3/5000 | | |
| BH | (60°-80°) | 2340.7 | 6.0 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 296.9 | 0.8 | | | G3/500 |
| 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4801.1 | 4801.1 | 4801.1 | 4801.1 | 4801.1 | 4801.1 | 4801.1 | 4801.1 | 4801.1 | 4801.1 | 4801.1 |
| 2.5° | 4759.7 | 4761.6 | 4765.4 | 4780.4 | 4793.6 | 4789.8 | 4791.7 | 4784.2 | 4782.3 | 4771.0 | 4782.3 |
| 5° | 4699.6 | 4705.2 | 4707.1 | 4731.5 | 4746.6 | 4750.3 | 4744.7 | 4735.3 | 4724.0 | 4712.7 | 4718.4 |
| 7.5° | 4562.3 | 4577.3 | 4579.2 | 4613.1 | 4637.5 | 4669.5 | 4671.4 | 4673.2 | 4667.6 | 4660.1 | 4671.4 |
| 10° | 4475.8 | 4479.5 | 4477.7 | 4502.1 | 4520.9 | 4556.6 | 4577.3 | 4613.1 | 4628.1 | 4631.9 | 4639.4 |
| 12.5° | 4470.1 | 4466.4 | 4460.7 | 4460.7 | 4455.1 | 4470.1 | 4507.7 | 4558.5 | 4594.2 | 4605.5 | 4614.9 |
| 15° | 4530.3 | 4528.4 | 4509.6 | 4481.4 | 4445.7 | 4434.4 | 4466.4 | 4522.8 | 4569.8 | 4594.2 | 4603.7 |
| 17.5° | 4665.7 | 4654.4 | 4624.3 | 4560.4 | 4483.3 | 4453.2 | 4457.0 | 4504.0 | 4558.5 | 4590.5 | 4599.9 |
| 20° | 4913.9 | 4913.9 | 4850.0 | 4729.6 | 4592.4 | 4520.9 | 4487.1 | 4515.3 | 4567.9 | 4611.2 | 4624.3 |
| 22.5° | 5342.7 | 5346.5 | 5239.3 | 5041.8 | 4810.5 | 4658.2 | 4573.6 | 4567.9 | 4630.0 | 4678.9 | 4693.9 |
| 25° | 5950.1 | 5935.1 | 5784.7 | 5502.6 | 5150.9 | 4898.9 | 4752.2 | 4718.4 | 4771.0 | 4825.6 | 4844.4 |
| 27.5° | 6657.2 | 6602.7 | 6424.0 | 6083.7 | 5628.6 | 5260.0 | 5034.3 | 4979.8 | 5030.5 | 5092.6 | 5111.4 |
| 30° | 7356.8 | 7300.4 | 7087.9 | 6715.5 | 6209.7 | 5743.3 | 5419.8 | 5331.4 | 5402.9 | 5491.3 | 5502.6 |
| 32.5° | 8056.4 | 8056.4 | 7819.4 | 7385.0 | 6834.0 | 6320.6 | 5933.2 | 5827.9 | 5946.4 | 6053.6 | 6078.0 |
| 35° | 8893.2 | 8897.0 | 8667.6 | 8144.8 | 7552.4 | 7008.9 | 6582.0 | 6504.9 | 6683.6 | 6758.8 | 6817.1 |
| 37.5° | 9921.9 | 9942.6 | 9647.4 | 9015.5 | 8366.7 | 7795.0 | 7287.2 | 7181.9 | 7360.6 | 7565.6 | 7753.6 |
| 40° | 11033.3 | 11059.7 | 10734.3 | 9955.8 | 9307.0 | 8708.9 | 8159.8 | 7969.9 | 8267.0 | 8658.2 | 8900.8 |
| 42.5° | 12094.0 | 12229.4 | 11915.3 | 11114.2 | 10416.5 | 9797.8 | 9241.2 | 8964.7 | 9337.1 | 9927.6 | 10138.2 |
| 45° | 13626.7 | 13724.4 | 13177.2 | 12451.3 | 11795.0 | 11102.9 | 10365.7 | 10074.2 | 10595.2 | 11339.9 | 11383.1 |
| 47.5° | 14647.8 | 14574.5 | 14296.1 | 13844.8 | 13429.2 | 12782.3 | 11672.7 | 11353.0 | 12045.1 | 12921.4 | 12678.8 |
| 50° | 15191.3 | 15213.9 | 15176.2 | 15202.6 | 15217.6 | 14811.4 | 13275.0 | 12836.8 | 13662.4 | 14721.1 | 14162.6 |
| 52.5° | 15699.0 | 15548.6 | 15672.7 | 16289.6 | 17034.3 | 16883.8 | 15018.3 | 14561.3 | 15396.3 | 16718.3 | 15731.0 |
| 55° | 15687.8 | 15458.3 | 15862.7 | 16951.5 | 18566.9 | 18739.9 | 16976.0 | 16449.4 | 17229.8 | 18860.3 | 17393.4 |
| 57.5° | 15133.0 | 15144.3 | 15766.8 | 17192.2 | 19635.1 | 20485.1 | 19247.7 | 18457.9 | 19174.4 | 21030.5 | 18911.1 |
| 60° | 14369.5 | 14472.9 | 15369.9 | 17152.7 | 20490.8 | 21916.2 | 22034.7 | 20622.4 | 21079.4 | 23003.2 | 20167.3 |
| 62.5° | 13137.7 | 13246.8 | 14484.2 | 16742.8 | 20361.0 | 23294.7 | 24554.7 | 23078.4 | 23070.9 | 24199.3 | 20535.9 |
| 65° | 11195.1 | 11163.1 | 12462.6 | 15210.1 | 19272.1 | 24314.0 | 27057.7 | 25201.6 | 24571.6 | 24218.1 | 19794.9 |
| 67.5° | 8255.7 | 8112.8 | 9228.0 | 11584.3 | 16018.7 | 23172.5 | 28530.2 | 26307.4 | 25083.1 | 22625.2 | 17530.7 |
| 70° | 4284.0 | 4141.0 | 5043.7 | 6764.4 | 10535.0 | 18085.5 | 26899.8 | 25735.7 | 23952.9 | 18965.6 | 13733.8 |
| 72.5° | 1831.7 | 1807.2 | 2173.9 | 2967.5 | 5096.4 | 10431.6 | 21092.5 | 22275.4 | 20552.8 | 14130.6 | 9442.4 |
| 75° | 1231.8 | 1224.3 | 1361.5 | 1617.3 | 2292.4 | 4233.2 | 13199.8 | 15811.9 | 15037.1 | 8761.6 | 5310.7 |
| 77.5° | 966.6 | 957.2 | 1038.1 | 1162.2 | 1485.7 | 1670.0 | 5858.0 | 8488.9 | 7857.0 | 3813.8 | 2324.4 |
| 80° | 756.0 | 748.5 | 799.2 | 866.9 | 1068.2 | 1053.1 | 1927.6 | 3377.5 | 2614.0 | 1461.2 | 1130.2 |
| 82.5° | 596.1 | 596.1 | 637.5 | 639.4 | 757.9 | 718.4 | 1006.1 | 1487.5 | 1305.1 | 851.9 | 692.1 |
| 85° | 545.4 | 545.4 | 588.6 | 477.7 | 494.6 | 453.2 | 624.4 | 882.0 | 827.5 | 349.8 | 300.9 |
| 87.5° | 274.6 | 267.0 | 494.6 | 423.1 | 268.9 | 240.7 | 304.7 | 426.9 | 458.9 | 193.7 | 150.4 |
| 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° | 4801.1 | 4801.1 | 4801.1 | 4801.1 | 4801.1 | 4801.1 | 4801.1 | 4801.1 | 4801.1 | 4801.1 |
| 2.5° | 4778.5 | 4776.7 | 4780.4 | 4782.3 | 4797.3 | 4818.0 | 4827.4 | 4840.6 | 4848.1 | 4844.4 |
| 5° | 4722.1 | 4725.9 | 4740.9 | 4752.2 | 4778.5 | 4812.4 | 4831.2 | 4846.2 | 4859.4 | 4853.8 |
| 7.5° | 4675.1 | 4684.5 | 4707.1 | 4716.5 | 4731.5 | 4740.9 | 4739.1 | 4744.7 | 4756.0 | 4742.8 |
| 10° | 4648.8 | 4660.1 | 4677.0 | 4663.8 | 4628.1 | 4577.3 | 4530.3 | 4505.9 | 4513.4 | 4504.0 |
| 12.5° | 4622.5 | 4637.5 | 4624.3 | 4562.3 | 4462.6 | 4396.8 | 4361.1 | 4364.8 | 4381.7 | 4385.5 |
| 15° | 4607.4 | 4613.1 | 4556.6 | 4440.0 | 4338.5 | 4329.1 | 4347.9 | 4344.1 | 4346.0 | 4346.0 |
| 17.5° | 4607.4 | 4592.4 | 4487.1 | 4370.5 | 4327.2 | 4310.3 | 4252.0 | 4178.6 | 4146.7 | 4135.4 |
| 20° | 4631.9 | 4592.4 | 4464.5 | 4387.4 | 4293.4 | 4148.6 | 3994.3 | 3858.9 | 3798.8 | 3781.8 |
| 22.5° | 4705.2 | 4637.5 | 4528.4 | 4394.9 | 4127.9 | 3885.3 | 3640.8 | 3479.1 | 3370.0 | 3351.2 |
| 25° | 4853.8 | 4778.5 | 4654.4 | 4295.2 | 3864.6 | 3518.6 | 3240.2 | 3059.7 | 2950.6 | 2935.6 |
| 27.5° | 5113.3 | 5064.4 | 4722.1 | 4075.2 | 3514.8 | 3144.3 | 2886.7 | 2747.5 | 2666.7 | 2661.0 |
| 30° | 5504.4 | 5480.0 | 4688.3 | 3749.9 | 3084.1 | 2781.4 | 2657.3 | 2576.4 | 2516.2 | 2514.3 |
| 32.5° | 6128.8 | 5931.3 | 4577.3 | 3353.1 | 2691.1 | 2523.7 | 2473.0 | 2424.1 | 2377.0 | 2377.0 |
| 35° | 6931.8 | 6296.2 | 4366.7 | 2928.1 | 2452.3 | 2380.8 | 2316.9 | 2239.8 | 2177.7 | 2173.9 |
| 37.5° | 7875.9 | 6521.8 | 3988.7 | 2585.8 | 2339.4 | 2284.9 | 2190.9 | 2076.2 | 1967.1 | 1948.3 |
| 40° | 8829.3 | 6589.5 | 3456.5 | 2375.2 | 2268.0 | 2189.0 | 2074.3 | 1938.9 | 1833.6 | 1827.9 |
| 42.5° | 9703.8 | 6459.8 | 2892.3 | 2230.4 | 2196.5 | 2091.2 | 1970.8 | 1850.5 | 1767.7 | 1765.9 |
| 45° | 10437.2 | 6123.2 | 2418.4 | 2093.1 | 2121.3 | 2002.8 | 1895.6 | 1797.8 | 1733.9 | 1720.7 |
| 47.5° | 11127.4 | 5647.4 | 2085.6 | 1948.3 | 2046.1 | 1953.9 | 1863.7 | 1771.5 | 1709.4 | 1700.0 |
| 50° | 11928.5 | 5134.0 | 1852.4 | 1807.2 | 1980.2 | 1937.0 | 1890.0 | 1794.1 | 1690.6 | 1679.4 |
| 52.5° | 12898.9 | 4690.2 | 1670.0 | 1683.1 | 1929.5 | 1959.6 | 1957.7 | 1858.0 | 1677.5 | 1662.4 |
| 55° | 13982.1 | 4197.4 | 1532.7 | 1581.6 | 1908.8 | 2000.9 | 1974.6 | 1918.2 | 1688.8 | 1666.2 |
| 57.5° | 15048.4 | 3622.0 | 1436.8 | 1504.5 | 1878.7 | 1997.2 | 1893.7 | 1812.9 | 1715.1 | 1683.1 |
| 60° | 15847.6 | 2849.1 | 1363.4 | 1436.8 | 1812.9 | 1935.1 | 1805.4 | 1698.2 | 1709.4 | 1685.0 |
| 62.5° | 15900.3 | 2202.2 | 1275.0 | 1378.5 | 1713.2 | 1873.1 | 1747.1 | 1647.4 | 1733.9 | 1711.3 |
| 65° | 14965.6 | 1664.3 | 1190.4 | 1308.9 | 1606.0 | 1833.6 | 1690.6 | 1619.2 | 1784.7 | 1760.2 |
| 67.5° | 12599.9 | 1339.0 | 1118.9 | 1237.4 | 1498.8 | 1750.8 | 1639.9 | 1592.8 | 1829.8 | 1786.5 |
| 70° | 9096.3 | 1141.5 | 1049.4 | 1150.9 | 1402.9 | 1656.8 | 1594.7 | 1545.8 | 1707.6 | 1639.9 |
| 72.5° | 5600.4 | 989.2 | 970.4 | 1036.2 | 1329.6 | 1559.0 | 1527.0 | 1457.4 | 1538.3 | 1483.8 |
| 75° | 2796.4 | 857.5 | 882.0 | 923.4 | 1226.1 | 1448.0 | 1414.2 | 1344.6 | 1355.9 | 1344.6 |
| 77.5° | 1339.0 | 733.4 | 778.6 | 810.5 | 1092.6 | 1322.0 | 1286.3 | 1214.9 | 1201.7 | 1203.6 |
| 80° | 848.1 | 613.1 | 656.3 | 678.9 | 976.0 | 1175.4 | 1139.6 | 1068.2 | 1218.6 | 1130.2 |
| 82.5° | 530.3 | 498.4 | 509.6 | 551.0 | 850.0 | 1023.0 | 976.0 | 912.1 | 1098.3 | 868.8 |
| 85° | 293.4 | 347.9 | 363.0 | 398.7 | 654.4 | 855.7 | 808.6 | 727.8 | 652.6 | 641.3 |
| 87.5° | 174.9 | 206.9 | 212.5 | 238.8 | 440.1 | 618.7 | 547.2 | 519.0 | 430.7 | 428.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)