

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: P319059

Luminaire Tested: **GAN-SA5D-740-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38510 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

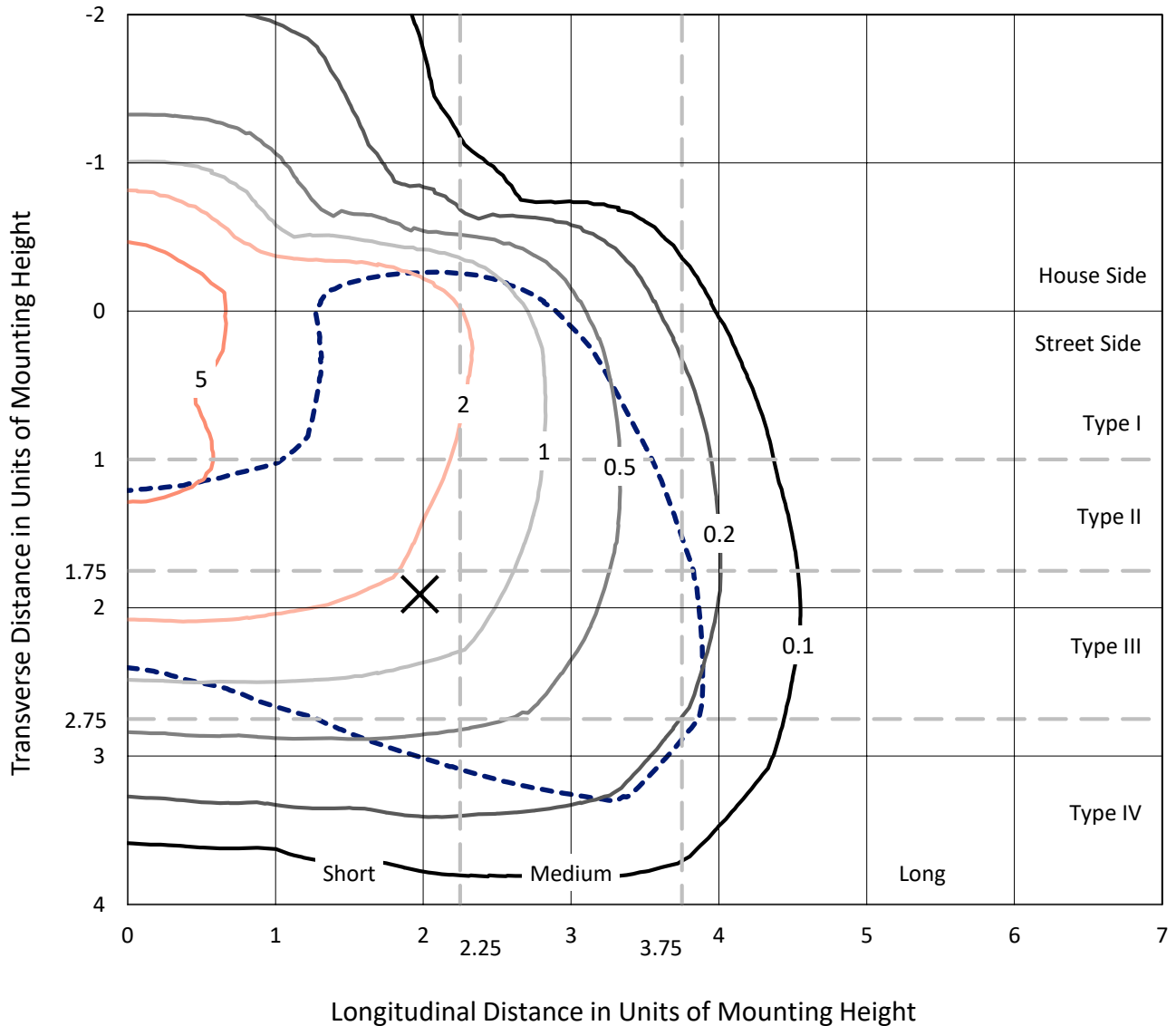
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

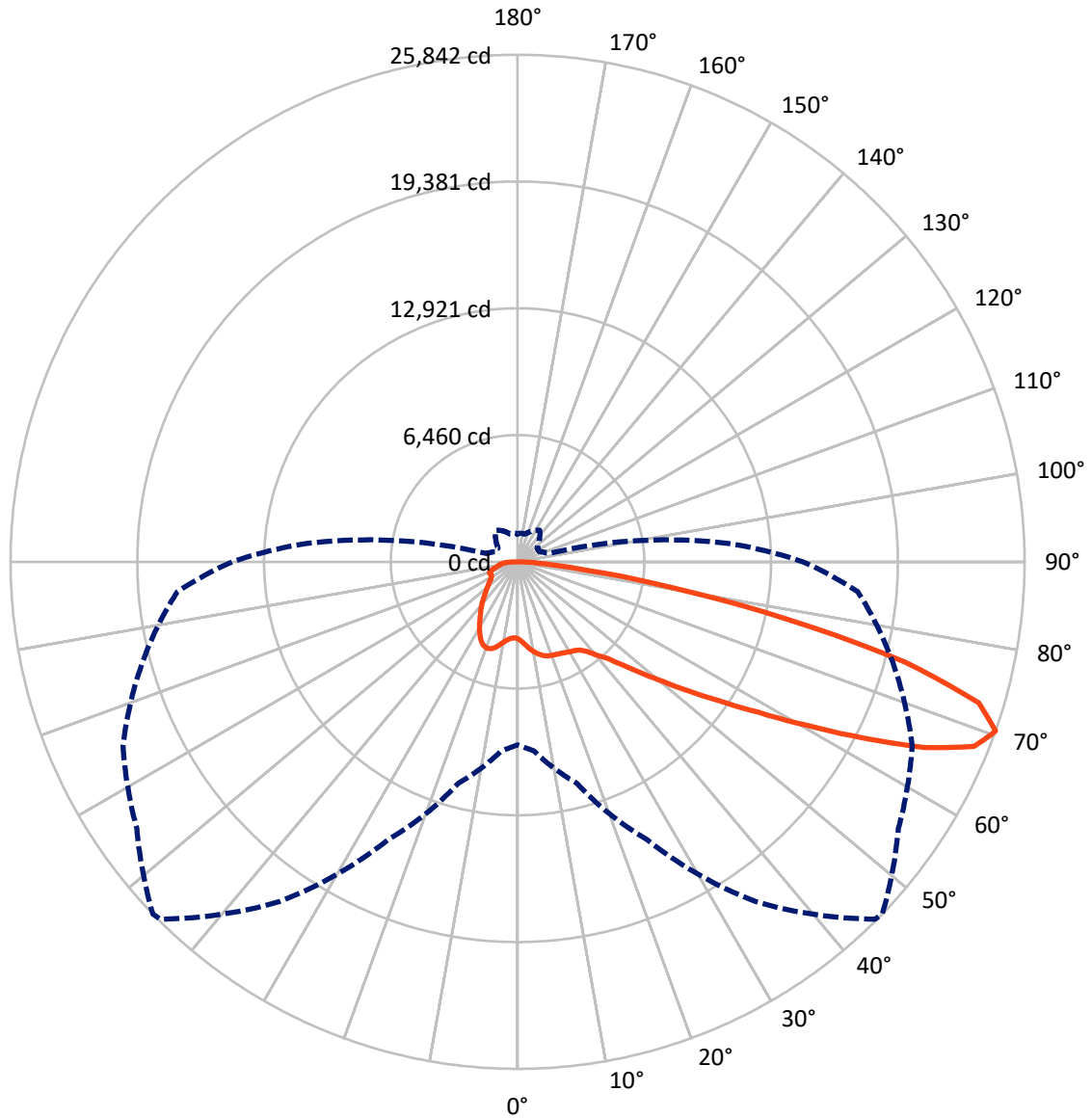
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8826.4 | 0.0 | 8826.4 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 29683.6 | 0.0 | 29683.6 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 38510.0 | 0.0 | 38510.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 400.0 | 1.0 |
| 10°-20° | 1332.6 | 3.5 |
| 20°-30° | 2221.9 | 5.8 |
| 30°-40° | 3153.0 | 8.2 |
| 40°-50° | 4637.9 | 12.0 |
| 50°-60° | 7854.2 | 20.4 |
| 60°-70° | 11149.0 | 29.0 |
| 70°-80° | 6773.1 | 17.6 |
| 80°-90° | 988.5 | 2.6 |
| 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° | 38510.0 | 100.0 |
| 0°-180° | 38510.0 | 100.0 |

Coefficient of Utilization

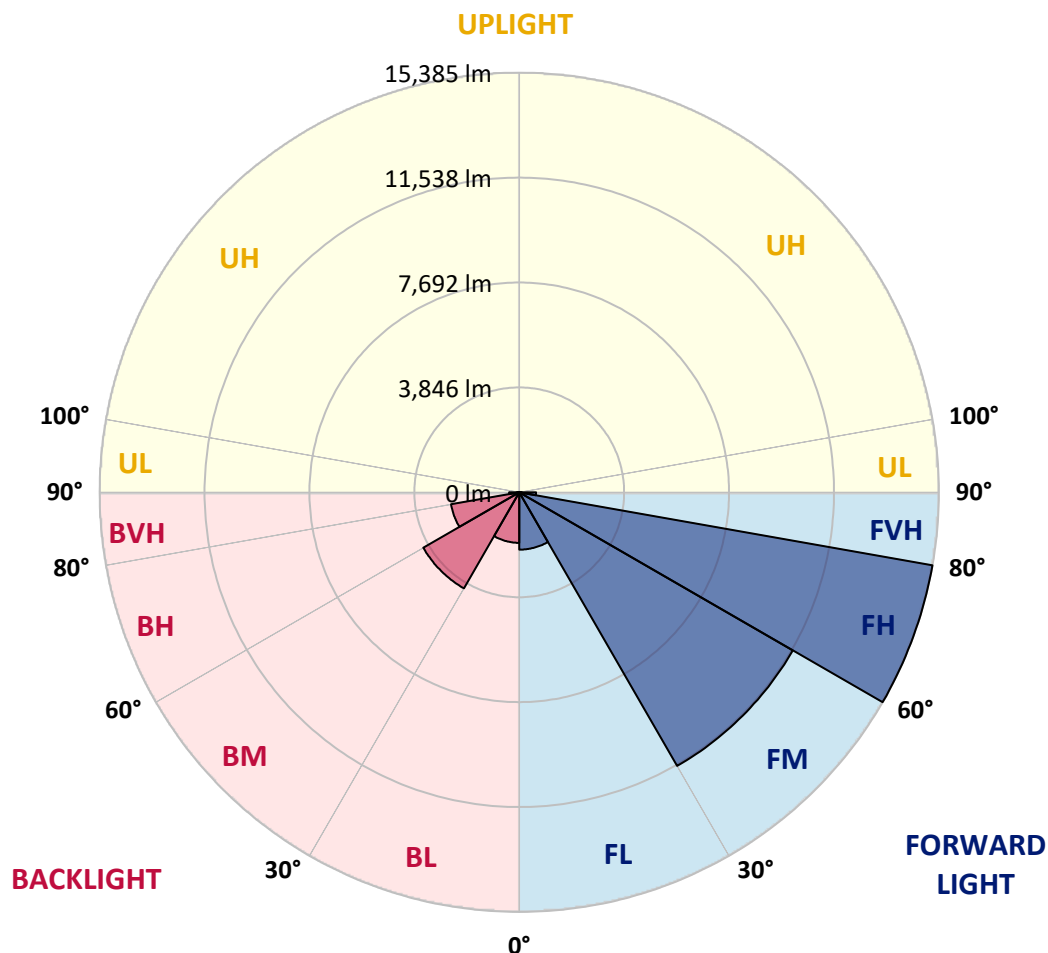


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2101.3 | 5.5 | | | |
| FM (30°-60°) | 11582.1 | 30.1 | | | |
| FH (60°-80°) | 15384.5 | 39.9 | | | G5 |
| FVH (80°-90°) | 615.7 | 1.6 | | | G4/750 |
| BL (0°-30°) | 1853.1 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 4063.0 | 10.6 | B3/5000 | | |
| BH (60°-80°) | 2537.5 | 6.6 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 372.7 | 1.0 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3923.4 | 3923.4 | 3923.4 | 3923.4 | 3923.4 | 3923.4 | 3923.4 | 3923.4 | 3923.4 | 3923.4 | 3923.4 |
| 2.5° | 4119.8 | 4122.4 | 4127.7 | 4114.5 | 4077.6 | 4067.1 | 4063.1 | 4024.9 | 3999.9 | 3963.0 | 3931.3 |
| 5° | 4449.3 | 4451.9 | 4444.0 | 4407.1 | 4325.4 | 4264.8 | 4259.5 | 4172.5 | 4093.4 | 4009.1 | 3945.8 |
| 7.5° | 4793.2 | 4797.2 | 4772.1 | 4702.3 | 4587.6 | 4482.2 | 4475.6 | 4357.0 | 4237.1 | 4109.2 | 4014.4 |
| 10° | 5097.7 | 5081.9 | 5041.0 | 4943.5 | 4807.7 | 4678.6 | 4673.3 | 4549.4 | 4411.0 | 4256.8 | 4130.3 |
| 12.5° | 5300.6 | 5287.5 | 5234.7 | 5116.1 | 4967.2 | 4848.6 | 4838.0 | 4723.4 | 4589.0 | 4420.3 | 4268.7 |
| 15° | 5412.7 | 5421.9 | 5350.7 | 5216.3 | 5071.3 | 4971.2 | 4961.9 | 4880.2 | 4760.3 | 4590.3 | 4416.3 |
| 17.5° | 5427.1 | 5435.1 | 5366.5 | 5233.4 | 5114.8 | 5046.3 | 5042.3 | 4988.3 | 4901.3 | 4737.9 | 4556.0 |
| 20° | 5342.8 | 5348.1 | 5291.4 | 5182.0 | 5104.3 | 5083.2 | 5081.9 | 5058.1 | 4993.6 | 4848.6 | 4672.0 |
| 22.5° | 5220.2 | 5224.2 | 5183.3 | 5104.3 | 5077.9 | 5110.9 | 5120.1 | 5110.9 | 5064.7 | 4929.0 | 4762.9 |
| 25° | 5189.9 | 5187.3 | 5145.1 | 5064.7 | 5087.1 | 5157.0 | 5168.8 | 5172.8 | 5141.2 | 5022.6 | 4878.9 |
| 27.5° | 5336.2 | 5327.0 | 5246.6 | 5117.4 | 5131.9 | 5216.3 | 5232.1 | 5270.3 | 5250.5 | 5146.4 | 5010.7 |
| 30° | 5759.3 | 5743.4 | 5578.7 | 5317.8 | 5246.6 | 5290.1 | 5309.9 | 5370.5 | 5374.4 | 5287.5 | 5186.0 |
| 32.5° | 6473.6 | 6453.8 | 6158.6 | 5692.0 | 5440.3 | 5365.2 | 5383.7 | 5474.6 | 5523.4 | 5456.1 | 5346.8 |
| 35° | 7376.3 | 7353.9 | 6966.5 | 6328.6 | 5764.5 | 5508.9 | 5522.0 | 5594.5 | 5692.0 | 5597.2 | 5452.2 |
| 37.5° | 8317.3 | 8263.3 | 7890.3 | 7077.2 | 6279.8 | 5815.9 | 5815.9 | 5825.2 | 5871.3 | 5673.6 | 5576.1 |
| 40° | 9253.0 | 9199.0 | 8861.6 | 7957.5 | 6946.7 | 6299.6 | 6269.3 | 6065.0 | 6028.1 | 5858.1 | 5825.2 |
| 42.5° | 10122.9 | 10107.0 | 9908.0 | 8952.6 | 7729.5 | 6775.4 | 6733.2 | 6386.6 | 6394.5 | 6289.1 | 6290.4 |
| 45° | 11048.0 | 11048.0 | 10885.9 | 9956.8 | 8641.5 | 7539.8 | 7497.6 | 6987.6 | 7066.6 | 7017.9 | 7135.2 |
| 47.5° | 11803.2 | 11826.9 | 11804.5 | 11003.2 | 9702.4 | 8511.1 | 8434.6 | 7820.5 | 8041.9 | 8209.3 | 8550.6 |
| 50° | 12574.2 | 12611.1 | 12615.0 | 12151.1 | 10984.8 | 9665.5 | 9578.6 | 8926.2 | 9420.4 | 9900.1 | 10570.9 |
| 52.5° | 13693.1 | 13776.1 | 13445.3 | 13296.4 | 12555.7 | 11036.2 | 10950.5 | 10348.2 | 11173.2 | 11846.7 | 13002.5 |
| 55° | 14730.3 | 14657.8 | 14421.9 | 14514.1 | 14237.4 | 12596.6 | 12532.0 | 12003.5 | 13126.4 | 14001.5 | 15502.6 |
| 57.5° | 15291.7 | 15286.4 | 15523.7 | 15919.0 | 16050.8 | 14520.7 | 14466.7 | 13952.7 | 15328.6 | 15986.2 | 17849.8 |
| 60° | 15950.7 | 15959.9 | 16547.7 | 17445.2 | 17988.1 | 16916.7 | 16893.0 | 16502.9 | 17467.6 | 17839.2 | 19690.9 |
| 62.5° | 16042.9 | 16209.0 | 17221.1 | 18765.7 | 19801.6 | 19715.9 | 19768.6 | 18800.0 | 19381.2 | 19317.9 | 21065.5 |
| 65° | 14982.0 | 15200.8 | 17032.7 | 19165.0 | 21604.5 | 22777.4 | 22826.2 | 21110.3 | 20890.2 | 20581.8 | 21557.0 |
| 67.5° | 12807.4 | 13131.6 | 15121.7 | 18296.5 | 22198.9 | 25040.3 | 25108.8 | 22901.3 | 22142.2 | 21010.1 | 20373.6 |
| 70° | 9320.3 | 9680.0 | 11683.3 | 15626.4 | 21139.3 | 25763.8 | 25841.6 | 23693.4 | 22189.6 | 19791.0 | 17392.4 |
| 72.5° | 5630.1 | 5912.1 | 7563.5 | 11504.0 | 17841.9 | 24445.9 | 24584.3 | 22689.1 | 20258.9 | 16763.8 | 12843.0 |
| 75° | 2472.4 | 2656.9 | 3657.2 | 6629.1 | 12773.2 | 20226.0 | 20398.6 | 19420.7 | 16460.7 | 12182.8 | 7591.2 |
| 77.5° | 1053.0 | 1105.7 | 1499.8 | 2879.6 | 7220.8 | 13820.9 | 14058.1 | 14189.9 | 11168.0 | 6629.1 | 3207.8 |
| 80° | 656.3 | 677.4 | 848.7 | 1303.4 | 3379.1 | 7762.5 | 8018.2 | 8349.0 | 5545.8 | 2436.8 | 1120.2 |
| 82.5° | 399.3 | 423.0 | 564.1 | 788.1 | 1759.4 | 3518.8 | 3641.4 | 3874.7 | 2152.1 | 1053.0 | 579.9 |
| 85° | 239.9 | 257.0 | 345.3 | 498.2 | 1001.6 | 1383.8 | 1382.5 | 1528.8 | 1013.5 | 677.4 | 305.8 |
| 87.5° | 114.7 | 127.8 | 184.5 | 258.3 | 504.8 | 519.3 | 486.3 | 550.9 | 615.5 | 444.1 | 154.2 |
| 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° | 3923.4 | 3923.4 | 3923.4 | 3923.4 | 3923.4 | 3923.4 | 3923.4 | 3923.4 | 3923.4 | 3923.4 | 3923.4 |
| 2.5° | 3920.8 | 3915.5 | 3898.4 | 3885.2 | 3882.6 | 3874.7 | 3868.1 | 3872.0 | 3877.3 | 3878.6 | 3878.6 |
| 5° | 3919.5 | 3905.0 | 3882.6 | 3873.3 | 3885.2 | 3901.0 | 3920.8 | 3947.1 | 3963.0 | 3974.8 | 3982.7 |
| 7.5° | 3982.7 | 3955.0 | 3930.0 | 3924.7 | 3948.5 | 3990.6 | 4035.4 | 4090.8 | 4129.0 | 4155.4 | 4160.6 |
| 10° | 4088.2 | 4053.9 | 4028.8 | 4034.1 | 4076.3 | 4136.9 | 4200.2 | 4271.3 | 4329.3 | 4364.9 | 4367.6 |
| 12.5° | 4209.4 | 4176.5 | 4152.7 | 4175.1 | 4245.0 | 4318.8 | 4384.7 | 4446.6 | 4499.3 | 4534.9 | 4534.9 |
| 15° | 4349.1 | 4325.4 | 4297.7 | 4349.1 | 4444.0 | 4509.9 | 4537.6 | 4567.9 | 4596.9 | 4623.2 | 4618.0 |
| 17.5° | 4483.5 | 4461.1 | 4446.6 | 4507.2 | 4606.1 | 4636.4 | 4618.0 | 4595.5 | 4595.5 | 4610.0 | 4612.7 |
| 20° | 4599.5 | 4579.7 | 4589.0 | 4648.3 | 4699.7 | 4668.0 | 4599.5 | 4528.3 | 4499.3 | 4507.2 | 4515.2 |
| 22.5° | 4701.0 | 4691.8 | 4719.4 | 4747.1 | 4710.2 | 4599.5 | 4473.0 | 4376.8 | 4341.2 | 4338.6 | 4341.2 |
| 25° | 4819.6 | 4818.3 | 4852.5 | 4802.5 | 4639.0 | 4434.8 | 4264.8 | 4171.2 | 4151.4 | 4167.2 | 4193.6 |
| 27.5° | 4967.2 | 4981.7 | 4998.8 | 4815.6 | 4494.1 | 4185.7 | 4013.0 | 3948.5 | 3968.2 | 4006.4 | 4031.5 |
| 30° | 5155.7 | 5195.2 | 5158.3 | 4782.7 | 4285.8 | 3901.0 | 3736.3 | 3717.8 | 3771.9 | 3825.9 | 3852.2 |
| 32.5° | 5338.8 | 5400.8 | 5311.2 | 4697.0 | 4017.0 | 3599.2 | 3471.4 | 3466.1 | 3532.0 | 3584.7 | 3621.6 |
| 35° | 5486.5 | 5609.0 | 5425.8 | 4527.0 | 3706.0 | 3321.1 | 3227.6 | 3192.0 | 3215.7 | 3277.6 | 3319.8 |
| 37.5° | 5678.9 | 5883.1 | 5504.9 | 4267.4 | 3368.6 | 3091.8 | 2982.4 | 2900.7 | 2879.6 | 2904.7 | 2925.8 |
| 40° | 6030.8 | 6300.9 | 5541.8 | 3905.0 | 3039.1 | 2862.5 | 2751.8 | 2631.9 | 2548.8 | 2488.2 | 2489.5 |
| 42.5° | 6605.4 | 6845.2 | 5518.1 | 3464.8 | 2734.7 | 2638.5 | 2513.3 | 2374.9 | 2240.4 | 2103.4 | 2092.8 |
| 45° | 7538.4 | 7654.4 | 5446.9 | 2998.2 | 2467.1 | 2403.9 | 2286.6 | 2148.2 | 1969.0 | 1813.4 | 1798.9 |
| 47.5° | 9031.6 | 8774.6 | 5336.2 | 2591.0 | 2231.2 | 2204.9 | 2096.8 | 1937.3 | 1747.5 | 1622.3 | 1611.8 |
| 50° | 11067.8 | 10391.7 | 5282.2 | 2266.8 | 2023.0 | 2030.9 | 1942.6 | 1773.9 | 1594.7 | 1502.4 | 1491.9 |
| 52.5° | 13503.3 | 12275.0 | 5386.3 | 2016.4 | 1855.6 | 1883.3 | 1817.4 | 1659.2 | 1509.0 | 1436.5 | 1426.0 |
| 55° | 16029.7 | 14225.5 | 5498.3 | 1834.5 | 1697.5 | 1751.5 | 1729.1 | 1598.6 | 1462.9 | 1395.7 | 1386.4 |
| 57.5° | 18192.4 | 15681.8 | 5274.3 | 1686.9 | 1556.5 | 1640.8 | 1660.6 | 1560.4 | 1439.2 | 1378.5 | 1368.0 |
| 60° | 19553.8 | 16268.3 | 4686.5 | 1548.5 | 1444.4 | 1552.5 | 1621.0 | 1549.9 | 1448.4 | 1443.1 | 1435.2 |
| 62.5° | 20199.6 | 16216.9 | 3804.8 | 1439.2 | 1374.6 | 1514.3 | 1650.0 | 1609.2 | 1553.8 | 1601.3 | 1605.2 |
| 65° | 19909.7 | 15441.9 | 2833.5 | 1366.7 | 1324.5 | 1528.8 | 1737.0 | 1721.2 | 1584.1 | 1631.6 | 1638.2 |
| 67.5° | 18001.3 | 13592.9 | 2098.1 | 1303.4 | 1269.1 | 1569.6 | 1895.2 | 1758.1 | 1524.8 | 1559.1 | 1538.0 |
| 70° | 14549.7 | 10776.5 | 1618.4 | 1232.2 | 1212.5 | 1564.4 | 1966.3 | 1735.7 | 1460.2 | 1468.2 | 1411.5 |
| 72.5° | 10033.2 | 7348.7 | 1316.6 | 1166.3 | 1130.8 | 1426.0 | 1916.2 | 1680.3 | 1406.2 | 1345.6 | 1270.5 |
| 75° | 5456.1 | 3944.5 | 1118.9 | 1097.8 | 987.1 | 1252.0 | 1824.0 | 1640.8 | 1357.4 | 1277.1 | 1234.9 |
| 77.5° | 2146.9 | 1636.8 | 971.3 | 1004.2 | 863.2 | 1105.7 | 1721.2 | 1565.7 | 1290.2 | 1184.8 | 1163.7 |
| 80° | 876.4 | 835.6 | 805.2 | 868.5 | 742.0 | 967.3 | 1597.3 | 1477.4 | 1209.8 | 1099.1 | 1057.0 |
| 82.5° | 496.9 | 519.3 | 626.0 | 685.3 | 602.3 | 890.9 | 1538.0 | 1406.2 | 1113.6 | 984.5 | 934.4 |
| 85° | 254.4 | 304.4 | 436.2 | 491.6 | 442.8 | 757.8 | 1416.8 | 1230.9 | 893.5 | 753.8 | 757.8 |
| 87.5° | 122.6 | 170.0 | 275.4 | 308.4 | 287.3 | 548.3 | 1058.3 | 892.2 | 695.9 | 550.9 | 533.8 |
| 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)