

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: P318129

Luminaire Tested: **GAN-SA5C-750-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-750-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34691 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

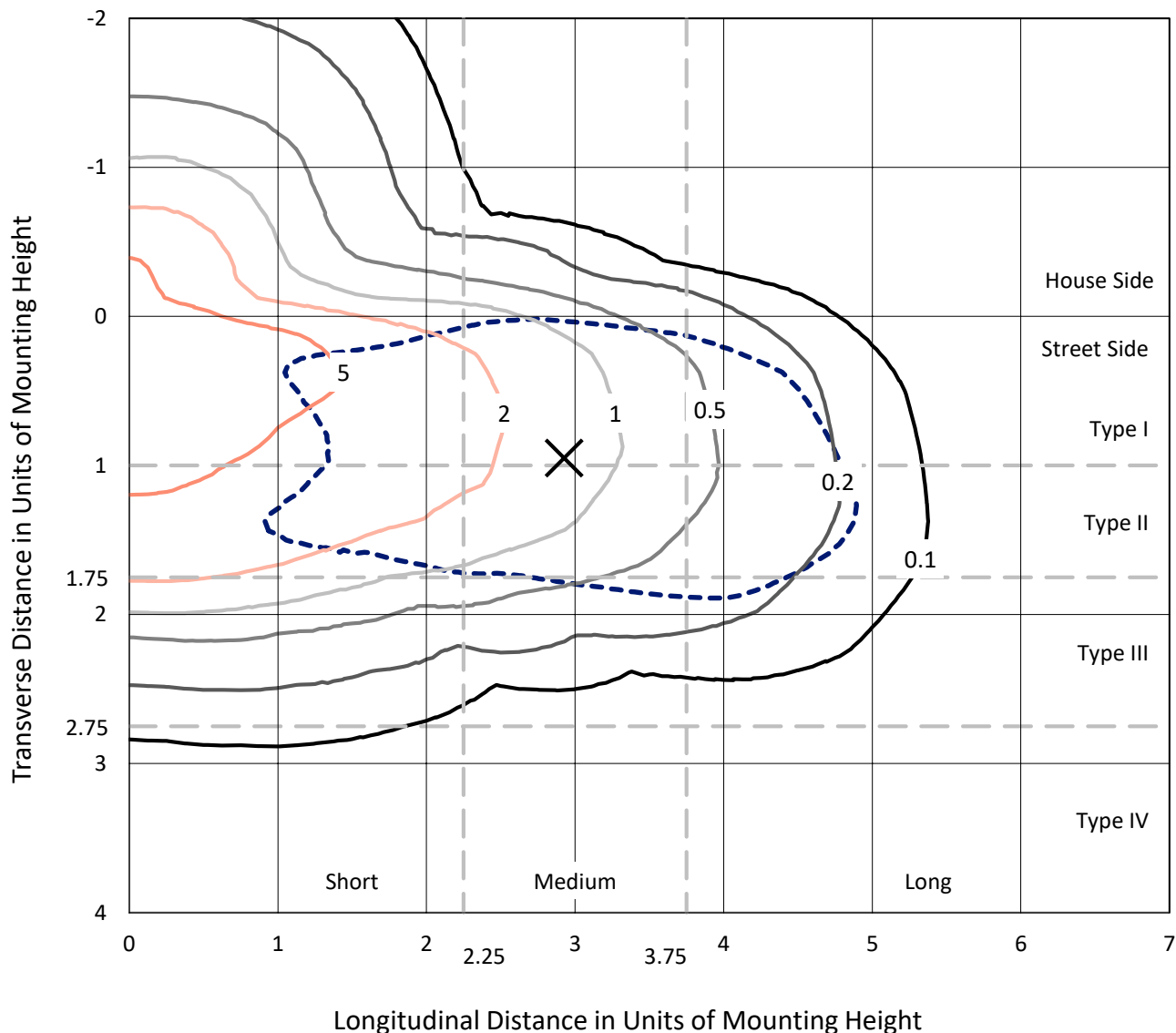
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

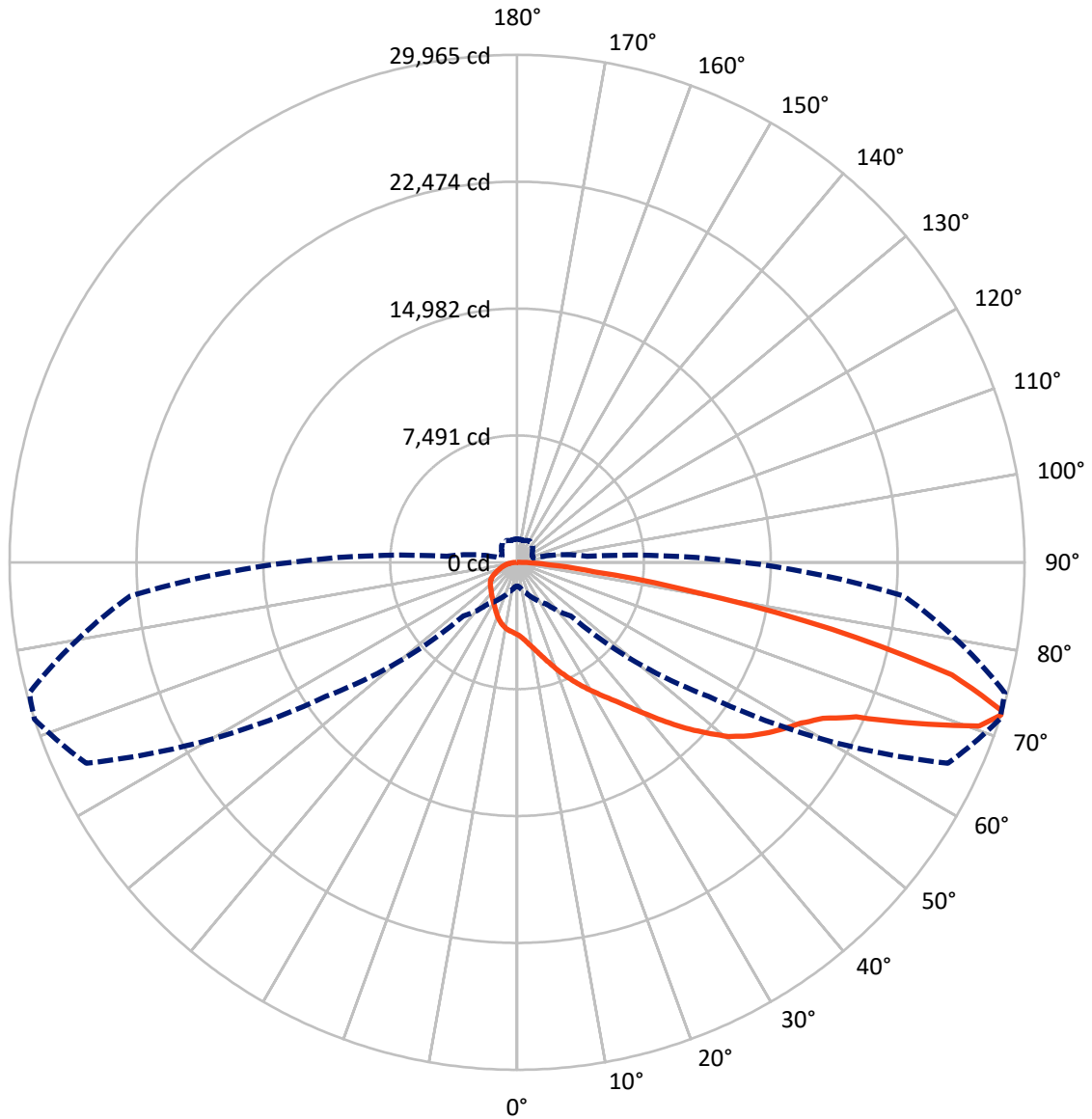
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6435.4 | 0.0 | 6435.4 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 28255.6 | 0.0 | 28255.6 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 34691.0 | 0.0 | 34691.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 427.7 | 1.2 |
| 10°-20° | 1382.0 | 4.0 |
| 20°-30° | 2421.7 | 7.0 |
| 30°-40° | 3590.6 | 10.4 |
| 40°-50° | 5251.5 | 15.1 |
| 50°-60° | 7226.0 | 20.8 |
| 60°-70° | 8044.7 | 23.2 |
| 70°-80° | 5451.1 | 15.7 |
| 80°-90° | 895.9 | 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° | 34691.0 | 100.0 |
| 0°-180° | 34691.0 | 100.0 |

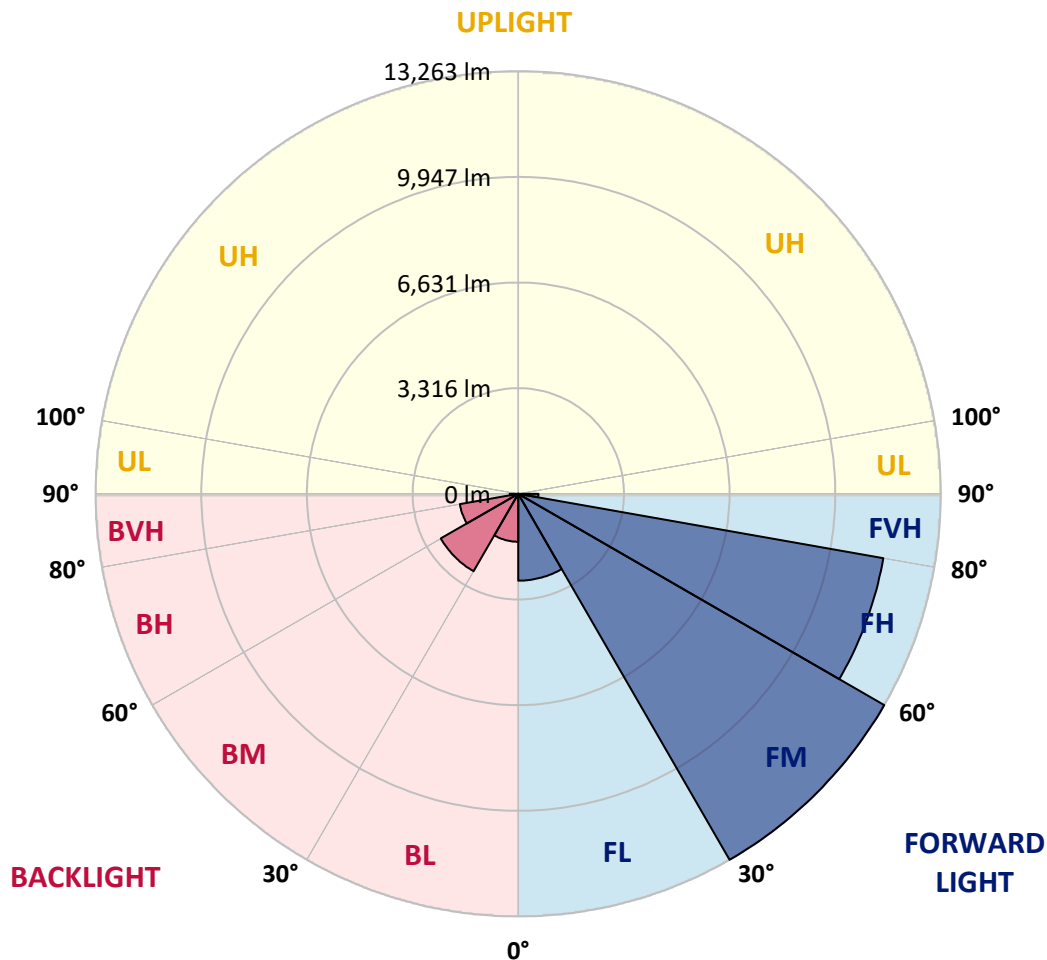


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2726.9 | 7.9 | | | |
| FM (30°-60°) | 13262.8 | 38.2 | | | |
| FH (60°-80°) | 11633.9 | 33.5 | | | G4/12000 |
| FVH (80°-90°) | 632.0 | 1.8 | | | G4/750 |
| BL (0°-30°) | 1504.4 | 4.3 | B3/2500 | | |
| BM (30°-60°) | 2805.2 | 8.1 | B3/5000 | | |
| BH (60°-80°) | 1861.8 | 5.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 264.0 | 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-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 72° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4267.9 | 4267.9 | 4267.9 | 4267.9 | 4267.9 | 4267.9 | 4267.9 | 4267.9 | 4267.9 | 4267.9 | 4267.9 |
| 2.5° | 4714.6 | 4707.5 | 4682.4 | 4682.4 | 4634.6 | 4594.0 | 4517.5 | 4466.2 | 4405.3 | 4383.8 | 4312.1 |
| 5° | 5170.9 | 5173.3 | 5142.3 | 5120.8 | 5050.3 | 4964.3 | 4834.1 | 4715.8 | 4597.6 | 4549.8 | 4402.9 |
| 7.5° | 5554.4 | 5549.6 | 5541.2 | 5523.3 | 5457.6 | 5369.2 | 5193.6 | 5018.0 | 4843.6 | 4772.0 | 4518.7 |
| 10° | 5800.4 | 5811.2 | 5818.3 | 5826.7 | 5799.2 | 5735.9 | 5569.9 | 5356.1 | 5127.9 | 5030.0 | 4657.3 |
| 12.5° | 5924.6 | 5943.8 | 5977.2 | 6034.5 | 6079.9 | 6072.8 | 5952.1 | 5725.2 | 5454.0 | 5331.0 | 4830.5 |
| 15° | 5997.5 | 6022.6 | 6075.2 | 6177.9 | 6305.7 | 6378.6 | 6346.3 | 6140.9 | 5838.6 | 5686.9 | 5041.9 |
| 17.5° | 6042.9 | 6063.2 | 6144.4 | 6281.8 | 6471.7 | 6665.2 | 6750.0 | 6578.0 | 6273.4 | 6100.2 | 5284.4 |
| 20° | 6074.0 | 6089.5 | 6191.0 | 6352.3 | 6598.3 | 6906.5 | 7143.0 | 7100.0 | 6752.4 | 6527.9 | 5537.6 |
| 22.5° | 6143.2 | 6156.4 | 6253.1 | 6415.6 | 6687.9 | 7085.7 | 7521.7 | 7586.2 | 7257.7 | 7003.3 | 5808.8 |
| 25° | 6336.7 | 6336.7 | 6418.0 | 6531.4 | 6787.1 | 7241.0 | 7841.8 | 8127.3 | 7773.7 | 7477.5 | 6059.6 |
| 27.5° | 6705.8 | 6702.3 | 6732.1 | 6771.5 | 6965.0 | 7398.6 | 8127.3 | 8605.1 | 8308.8 | 7985.1 | 6303.3 |
| 30° | 7143.0 | 7166.9 | 7170.5 | 7151.4 | 7242.2 | 7595.7 | 8391.3 | 9109.1 | 8847.6 | 8498.8 | 6552.9 |
| 32.5° | 7705.6 | 7721.2 | 7703.2 | 7639.9 | 7626.8 | 7875.2 | 8650.5 | 9637.1 | 9430.5 | 9035.1 | 6781.1 |
| 35° | 8419.9 | 8390.1 | 8333.9 | 8204.9 | 8081.9 | 8249.1 | 8946.7 | 10165.1 | 10085.0 | 9683.7 | 7095.2 |
| 37.5° | 9185.6 | 9186.8 | 9117.5 | 8824.9 | 8655.2 | 8726.9 | 9355.2 | 10763.5 | 10877.0 | 10455.3 | 7497.8 |
| 40° | 9799.6 | 9831.8 | 9874.8 | 9490.2 | 9270.4 | 9369.5 | 9874.8 | 11457.5 | 11813.5 | 11370.3 | 8022.2 |
| 42.5° | 10228.4 | 10265.4 | 10387.2 | 10146.0 | 9917.8 | 10101.8 | 10486.4 | 12198.1 | 12864.6 | 12426.2 | 8636.1 |
| 45° | 10682.3 | 10702.6 | 10788.6 | 10684.7 | 10538.9 | 10953.4 | 11175.6 | 12964.9 | 13976.7 | 13551.4 | 9323.0 |
| 47.5° | 11160.1 | 11181.6 | 11270.0 | 11200.7 | 11124.2 | 11749.0 | 11894.7 | 13687.6 | 15042.2 | 14787.7 | 10056.4 |
| 50° | 11750.2 | 11764.5 | 11848.1 | 11722.7 | 11746.6 | 12348.6 | 12537.3 | 14350.6 | 16159.0 | 15898.6 | 10792.2 |
| 52.5° | 12555.2 | 12558.8 | 12674.7 | 12561.2 | 12448.9 | 12788.2 | 13090.4 | 14975.3 | 17034.6 | 16911.5 | 11528.0 |
| 55° | 13185.9 | 13224.2 | 13604.0 | 13580.1 | 13515.6 | 13187.1 | 13552.6 | 15570.1 | 17815.8 | 17874.3 | 12309.2 |
| 57.5° | 12783.4 | 12932.7 | 13701.9 | 14244.2 | 14772.2 | 14179.7 | 14177.4 | 16240.2 | 18542.0 | 18819.1 | 13168.0 |
| 60° | 11195.9 | 11399.0 | 12532.5 | 13735.4 | 15387.4 | 15907.0 | 15474.6 | 17058.5 | 19275.4 | 19755.6 | 14244.2 |
| 62.5° | 7995.9 | 8330.3 | 9866.5 | 11787.2 | 14544.1 | 17051.3 | 18114.4 | 18356.9 | 20272.8 | 20840.2 | 15643.0 |
| 65° | 4042.1 | 4295.4 | 5583.0 | 7896.7 | 11620.0 | 16303.5 | 20983.5 | 21199.7 | 22006.0 | 22510.1 | 17796.6 |
| 67.5° | 2455.9 | 2551.4 | 3179.7 | 4392.1 | 7123.9 | 12699.8 | 21920.0 | 25938.3 | 25360.1 | 25627.7 | 20867.7 |
| 70° | 1809.6 | 1880.1 | 2271.9 | 2916.9 | 4097.1 | 7452.4 | 19046.1 | 29319.9 | 28940.0 | 28910.1 | 23137.2 |
| 72° | 1409.5 | 1460.9 | 1807.3 | 2356.7 | 2995.8 | 4471.0 | 13804.7 | 28071.6 | 29964.9 | 29814.4 | 22929.4 |
| 72.5° | 1336.6 | 1382.0 | 1697.4 | 2218.2 | 2830.9 | 4052.9 | 12411.9 | 27229.5 | 29890.8 | 29822.7 | 22660.6 |
| 75° | 1052.3 | 1084.6 | 1256.6 | 1715.3 | 2215.8 | 2299.4 | 6801.4 | 21101.8 | 26516.4 | 27618.9 | 20381.5 |
| 77.5° | 870.8 | 875.6 | 966.3 | 1248.2 | 1727.2 | 1625.7 | 3341.0 | 14640.8 | 18987.5 | 20200.0 | 14437.8 |
| 80° | 709.5 | 715.5 | 758.5 | 875.6 | 1306.8 | 1202.8 | 1586.3 | 8418.7 | 10630.9 | 10644.1 | 6865.9 |
| 82.5° | 565.0 | 566.2 | 614.0 | 640.2 | 938.9 | 860.0 | 909.0 | 3952.6 | 4645.4 | 4468.6 | 2467.8 |
| 85° | 397.8 | 389.4 | 599.6 | 525.6 | 614.0 | 551.9 | 501.7 | 1564.8 | 1920.7 | 1837.1 | 772.8 |
| 87.5° | 132.6 | 137.4 | 266.4 | 340.4 | 358.3 | 313.0 | 223.4 | 599.6 | 725.1 | 719.1 | 244.9 |
| 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° | 4267.9 | 4267.9 | 4267.9 | 4267.9 | 4267.9 | 4267.9 | 4267.9 | 4267.9 | 4267.9 | 4267.9 | 4267.9 |
| 2.5° | 4289.4 | 4251.2 | 4195.0 | 4132.9 | 4083.9 | 4033.8 | 3996.7 | 3977.6 | 3956.1 | 3938.2 | 3959.7 |
| 5° | 4334.8 | 4263.1 | 4143.7 | 4026.6 | 3940.6 | 3864.2 | 3809.2 | 3780.5 | 3754.3 | 3736.4 | 3738.7 |
| 7.5° | 4408.8 | 4293.0 | 4092.3 | 3921.5 | 3802.0 | 3719.6 | 3663.5 | 3644.4 | 3627.7 | 3622.9 | 3628.8 |
| 10° | 4487.7 | 4316.9 | 4024.2 | 3797.3 | 3661.1 | 3593.0 | 3567.9 | 3581.1 | 3593.0 | 3603.8 | 3615.7 |
| 12.5° | 4577.3 | 4338.4 | 3925.1 | 3651.5 | 3535.7 | 3509.4 | 3534.5 | 3591.8 | 3633.6 | 3658.7 | 3674.2 |
| 15° | 4694.3 | 4357.5 | 3810.4 | 3505.8 | 3428.2 | 3458.0 | 3542.8 | 3642.0 | 3714.9 | 3761.4 | 3768.6 |
| 17.5° | 4801.8 | 4356.3 | 3663.5 | 3358.9 | 3341.0 | 3428.2 | 3556.0 | 3695.7 | 3793.7 | 3859.4 | 3872.5 |
| 20° | 4912.9 | 4324.0 | 3492.7 | 3215.6 | 3252.6 | 3395.9 | 3562.0 | 3730.4 | 3848.6 | 3925.1 | 3943.0 |
| 22.5° | 5016.8 | 4267.9 | 3305.1 | 3085.4 | 3178.5 | 3352.9 | 3539.3 | 3710.1 | 3828.3 | 3890.4 | 3909.6 |
| 25° | 5087.3 | 4170.0 | 3115.2 | 2975.5 | 3112.8 | 3300.4 | 3465.2 | 3602.6 | 3691.0 | 3722.0 | 3726.8 |
| 27.5° | 5123.1 | 4042.1 | 2936.0 | 2879.9 | 3044.7 | 3214.4 | 3327.8 | 3395.9 | 3421.0 | 3418.6 | 3413.8 |
| 30° | 5127.9 | 3873.7 | 2782.0 | 2802.3 | 2965.9 | 3087.7 | 3141.5 | 3128.4 | 3096.1 | 3041.2 | 3045.9 |
| 32.5° | 5112.4 | 3683.8 | 2653.0 | 2728.2 | 2865.6 | 2933.7 | 2936.0 | 2872.7 | 2786.7 | 2699.5 | 2675.6 |
| 35° | 5117.2 | 3497.5 | 2539.5 | 2644.6 | 2743.7 | 2773.6 | 2746.1 | 2653.0 | 2535.9 | 2423.6 | 2399.7 |
| 37.5° | 5169.7 | 3335.0 | 2441.5 | 2547.8 | 2608.8 | 2615.9 | 2576.5 | 2478.6 | 2392.6 | 2282.7 | 2273.1 |
| 40° | 5295.2 | 3219.1 | 2348.4 | 2439.1 | 2473.8 | 2477.4 | 2421.2 | 2351.9 | 2359.1 | 2300.6 | 2299.4 |
| 42.5° | 5520.9 | 3169.0 | 2265.9 | 2325.7 | 2347.2 | 2354.3 | 2311.3 | 2267.1 | 2329.2 | 2291.0 | 2277.9 |
| 45° | 5812.4 | 3180.9 | 2196.7 | 2214.6 | 2254.0 | 2287.4 | 2261.2 | 2207.4 | 2231.3 | 2065.3 | 2010.3 |
| 47.5° | 6149.2 | 3257.4 | 2141.7 | 2119.0 | 2187.1 | 2250.4 | 2209.8 | 2128.6 | 2043.8 | 1878.9 | 1847.9 |
| 50° | 6543.4 | 3375.6 | 2091.5 | 2024.7 | 2114.2 | 2200.2 | 2159.6 | 2043.8 | 1916.0 | 1835.9 | 1825.2 |
| 52.5° | 6954.3 | 3520.1 | 2041.4 | 1920.7 | 2022.3 | 2162.0 | 2141.7 | 2024.7 | 1867.0 | 1788.1 | 1773.8 |
| 55° | 7420.1 | 3665.9 | 1978.1 | 1800.1 | 1923.1 | 2144.1 | 2133.4 | 1955.4 | 1830.0 | 1785.8 | 1775.0 |
| 57.5° | 7999.5 | 3831.9 | 1894.5 | 1674.7 | 1830.0 | 2079.6 | 2046.2 | 1913.6 | 1791.7 | 1758.3 | 1754.7 |
| 60° | 8754.4 | 4076.8 | 1773.8 | 1540.9 | 1716.5 | 1980.5 | 1973.3 | 1852.6 | 1730.8 | 1706.9 | 1702.1 |
| 62.5° | 9886.8 | 4481.7 | 1607.8 | 1407.1 | 1589.9 | 1812.0 | 1877.7 | 1770.2 | 1666.3 | 1665.1 | 1667.5 |
| 65° | 11642.7 | 5090.9 | 1427.4 | 1290.0 | 1462.1 | 1669.9 | 1766.6 | 1685.4 | 1600.6 | 1624.5 | 1628.1 |
| 67.5° | 13678.1 | 5596.2 | 1250.6 | 1175.4 | 1331.9 | 1534.9 | 1666.3 | 1600.6 | 1513.4 | 1575.5 | 1576.7 |
| 70° | 14355.3 | 5144.7 | 1095.3 | 1061.9 | 1196.9 | 1404.7 | 1557.6 | 1507.4 | 1419.0 | 1481.2 | 1475.2 |
| 72° | 13359.1 | 4153.2 | 995.0 | 975.9 | 1095.3 | 1297.2 | 1460.9 | 1420.2 | 1333.0 | 1374.9 | 1359.3 |
| 72.5° | 13045.0 | 3959.7 | 969.9 | 954.4 | 1067.9 | 1269.7 | 1435.8 | 1398.7 | 1311.5 | 1347.4 | 1333.0 |
| 75° | 11636.7 | 3438.9 | 833.8 | 837.3 | 931.7 | 1136.0 | 1294.8 | 1282.9 | 1193.3 | 1196.9 | 1192.1 |
| 77.5° | 8440.2 | 2521.6 | 702.4 | 726.2 | 793.1 | 998.6 | 1152.7 | 1145.5 | 1047.6 | 1029.6 | 1026.1 |
| 80° | 3916.7 | 1286.5 | 572.2 | 582.9 | 652.2 | 834.9 | 983.1 | 973.5 | 894.7 | 872.0 | 858.8 |
| 82.5° | 1341.4 | 611.6 | 430.0 | 437.2 | 505.3 | 672.5 | 852.9 | 846.9 | 781.2 | 737.0 | 709.5 |
| 85° | 479.0 | 304.6 | 301.0 | 293.8 | 360.7 | 529.2 | 743.0 | 710.7 | 614.0 | 523.2 | 520.8 |
| 87.5° | 155.3 | 130.2 | 155.3 | 154.1 | 210.2 | 358.3 | 539.9 | 459.9 | 445.5 | 370.3 | 363.1 |
| 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)