

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: P318089

Luminaire Tested: **GAN-SA5C-740-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318089
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-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34692 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

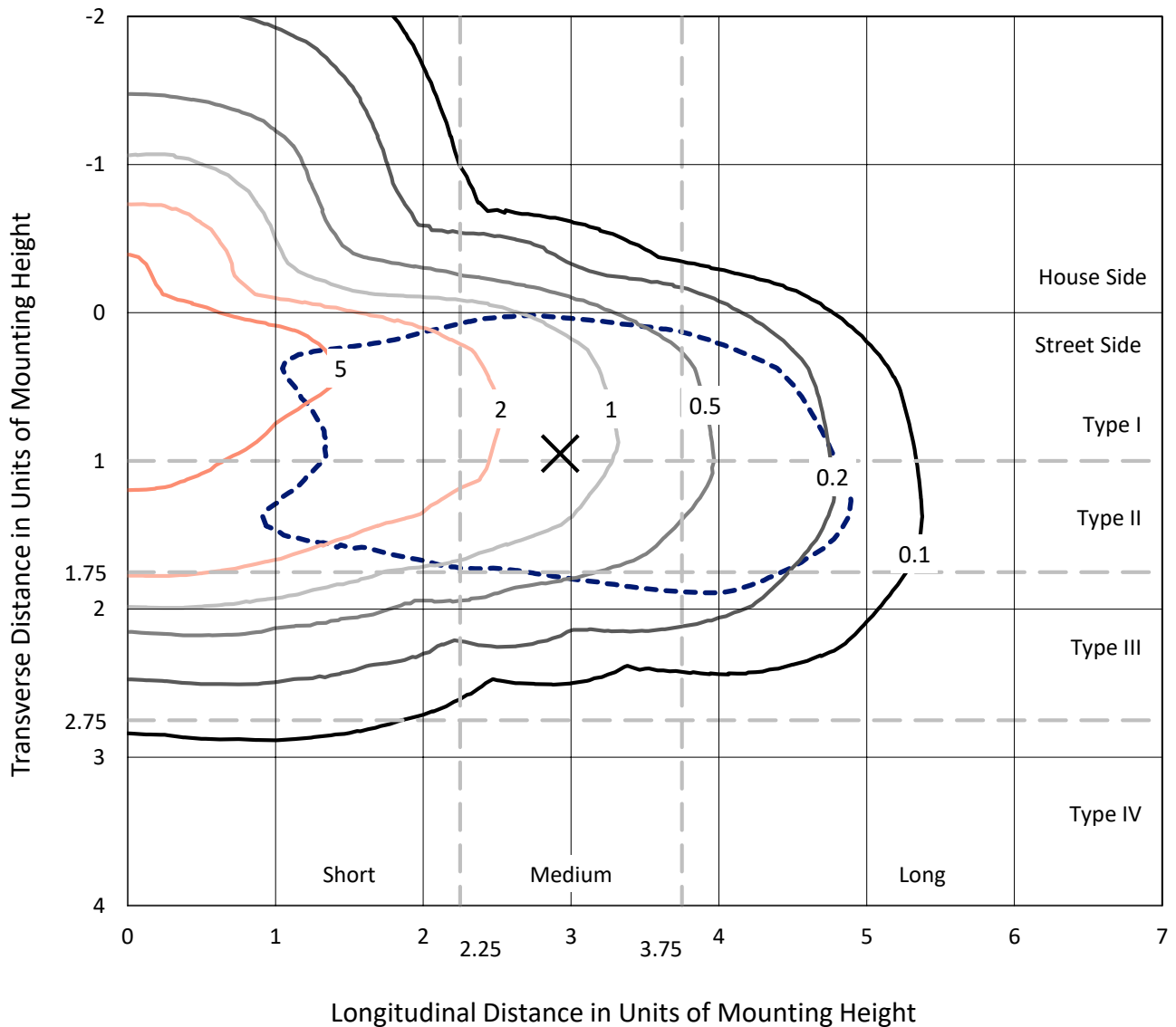
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

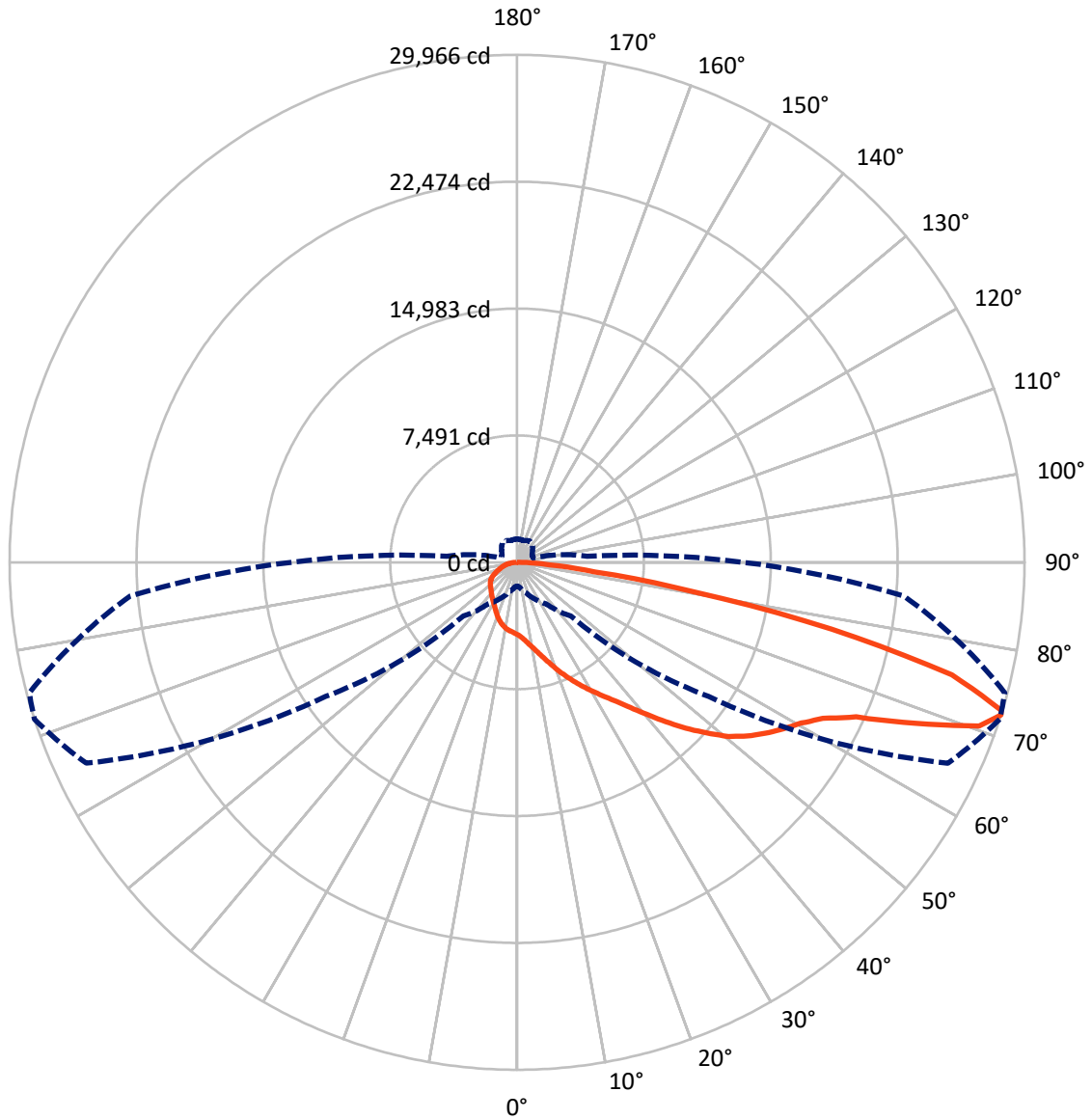
× Max cd
 - - - 1/2 Max cd



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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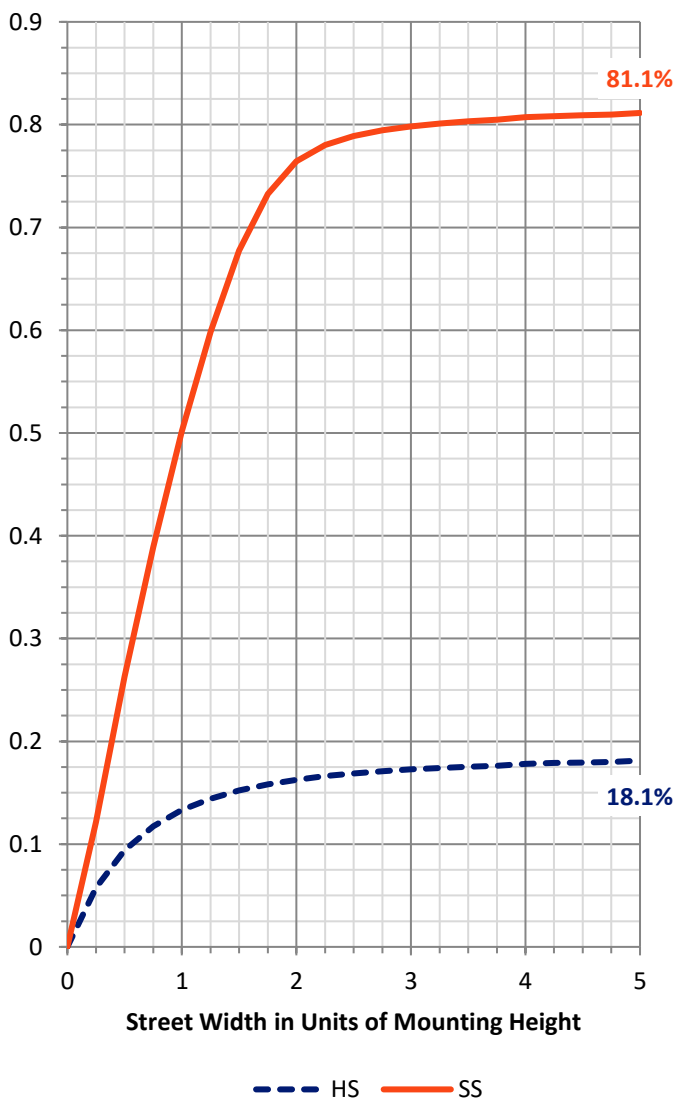
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6435.6 | 0.0 | 6435.6 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 28256.4 | 0.0 | 28256.4 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 34692.0 | 0.0 | 34692.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

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° | 3590.7 | 10.4 |
| 40°-50° | 5251.6 | 15.1 |
| 50°-60° | 7226.2 | 20.8 |
| 60°-70° | 8044.9 | 23.2 |
| 70°-80° | 5451.2 | 15.7 |
| 80°-90° | 896.0 | 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° | 34692.0 | 100.0 |
| 0°-180° | 34692.0 | 100.0 |

Coefficient of Utilization

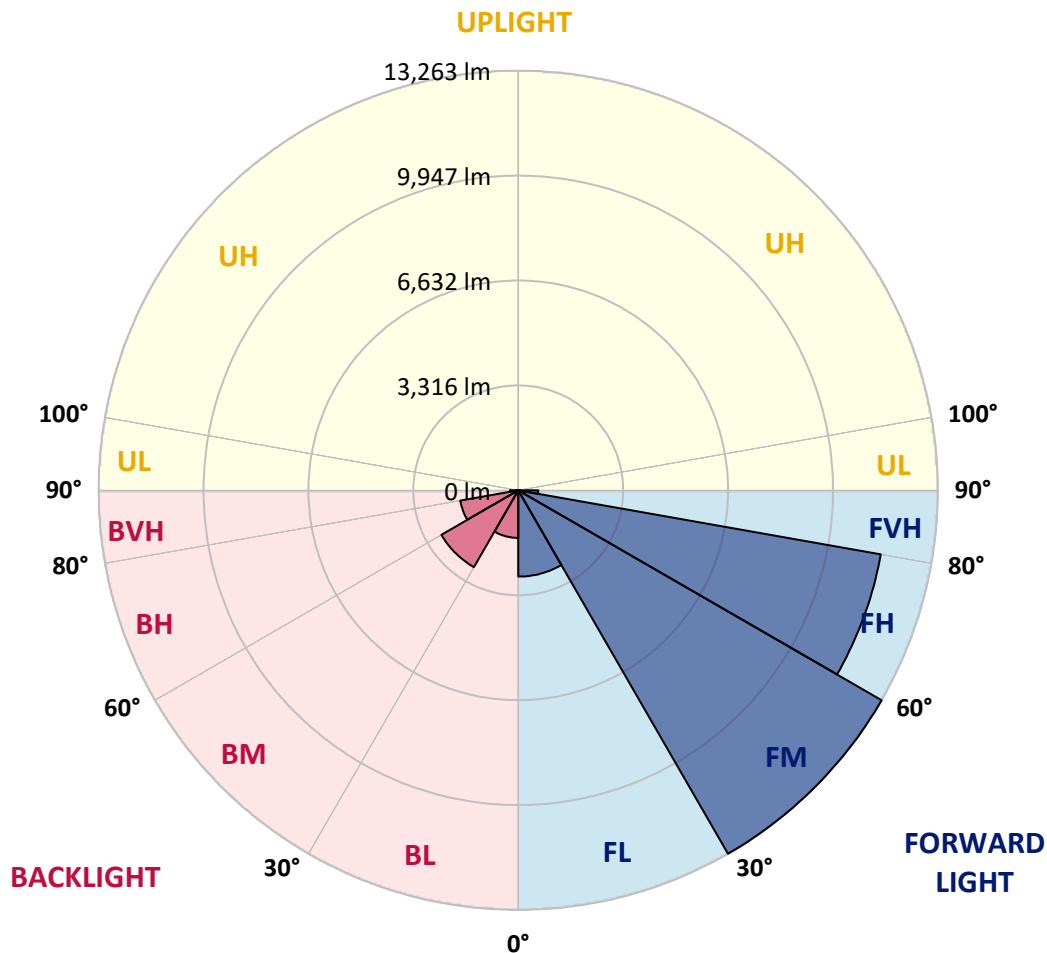


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2727.0 | 7.9 | | | |
| FM (30°-60°) | 13263.2 | 38.2 | | | |
| FH (60°-80°) | 11634.2 | 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°) | 2805.3 | 8.1 | B3/5000 | | |
| BH (60°-80°) | 1861.9 | 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° | 4268.0 | 4268.0 | 4268.0 | 4268.0 | 4268.0 | 4268.0 | 4268.0 | 4268.0 | 4268.0 | 4268.0 | 4268.0 |
| 2.5° | 4714.8 | 4707.6 | 4682.5 | 4682.5 | 4634.7 | 4594.1 | 4517.7 | 4466.3 | 4405.4 | 4383.9 | 4312.2 |
| 5° | 5171.1 | 5173.5 | 5142.4 | 5120.9 | 5050.4 | 4964.4 | 4834.2 | 4716.0 | 4597.7 | 4549.9 | 4403.0 |
| 7.5° | 5554.5 | 5549.7 | 5541.4 | 5523.5 | 5457.8 | 5369.4 | 5193.8 | 5018.2 | 4843.8 | 4772.1 | 4518.9 |
| 10° | 5800.6 | 5811.3 | 5818.5 | 5826.9 | 5799.4 | 5736.1 | 5570.0 | 5356.2 | 5128.1 | 5030.1 | 4657.4 |
| 12.5° | 5924.8 | 5943.9 | 5977.4 | 6034.7 | 6080.1 | 6072.9 | 5952.3 | 5725.3 | 5454.2 | 5331.1 | 4830.6 |
| 15° | 5997.7 | 6022.8 | 6075.3 | 6178.1 | 6305.9 | 6378.7 | 6346.5 | 6141.0 | 5838.8 | 5687.1 | 5042.1 |
| 17.5° | 6043.1 | 6063.4 | 6144.6 | 6282.0 | 6471.9 | 6665.4 | 6750.2 | 6578.2 | 6273.6 | 6100.4 | 5284.6 |
| 20° | 6074.1 | 6089.7 | 6191.2 | 6352.5 | 6598.5 | 6906.7 | 7143.2 | 7100.2 | 6752.6 | 6528.1 | 5537.8 |
| 22.5° | 6143.4 | 6156.6 | 6253.3 | 6415.8 | 6688.1 | 7085.9 | 7521.9 | 7586.4 | 7257.9 | 7003.5 | 5809.0 |
| 25° | 6336.9 | 6336.9 | 6418.2 | 6531.6 | 6787.3 | 7241.2 | 7842.0 | 8127.5 | 7773.9 | 7477.7 | 6059.8 |
| 27.5° | 6706.0 | 6702.5 | 6732.3 | 6771.7 | 6965.2 | 7398.9 | 8127.5 | 8605.3 | 8309.1 | 7985.4 | 6303.5 |
| 30° | 7143.2 | 7167.1 | 7170.7 | 7151.6 | 7242.4 | 7596.0 | 8391.5 | 9109.4 | 8847.8 | 8499.0 | 6553.1 |
| 32.5° | 7705.9 | 7721.4 | 7703.5 | 7640.2 | 7627.0 | 7875.5 | 8650.7 | 9637.4 | 9430.7 | 9035.4 | 6781.3 |
| 35° | 8420.2 | 8390.3 | 8334.2 | 8205.2 | 8082.1 | 8249.4 | 8947.0 | 10165.4 | 10085.3 | 9684.0 | 7095.5 |
| 37.5° | 9185.9 | 9187.1 | 9117.8 | 8825.1 | 8655.5 | 8727.2 | 9355.5 | 10763.8 | 10877.3 | 10455.6 | 7498.0 |
| 40° | 9799.8 | 9832.1 | 9875.1 | 9490.5 | 9270.7 | 9369.8 | 9875.1 | 11457.8 | 11813.8 | 11370.6 | 8022.4 |
| 42.5° | 10228.7 | 10265.7 | 10387.5 | 10146.3 | 9918.1 | 10102.1 | 10486.7 | 12198.4 | 12865.0 | 12426.6 | 8636.4 |
| 45° | 10682.6 | 10702.9 | 10788.9 | 10685.0 | 10539.3 | 10953.8 | 11175.9 | 12965.3 | 13977.1 | 13551.8 | 9323.2 |
| 47.5° | 11160.4 | 11181.9 | 11270.3 | 11201.0 | 11124.6 | 11749.3 | 11895.0 | 13688.0 | 15042.6 | 14788.2 | 10056.7 |
| 50° | 11750.5 | 11764.8 | 11848.4 | 11723.0 | 11746.9 | 12349.0 | 12537.7 | 14351.0 | 16159.5 | 15899.1 | 10792.5 |
| 52.5° | 12555.6 | 12559.2 | 12675.1 | 12561.6 | 12449.3 | 12788.5 | 13090.7 | 14975.7 | 17035.1 | 16912.0 | 11528.3 |
| 55° | 13186.3 | 13224.5 | 13604.4 | 13580.5 | 13516.0 | 13187.5 | 13553.0 | 15570.6 | 17816.3 | 17874.8 | 12309.5 |
| 57.5° | 12783.8 | 12933.1 | 13702.3 | 14244.7 | 14772.6 | 14180.2 | 14177.8 | 16240.7 | 18542.5 | 18819.7 | 13168.4 |
| 60° | 11196.2 | 11399.3 | 12532.9 | 13735.8 | 15387.8 | 15907.4 | 15475.0 | 17058.9 | 19276.0 | 19756.2 | 14244.7 |
| 62.5° | 7996.1 | 8330.6 | 9866.7 | 11787.5 | 14544.5 | 17051.8 | 18114.9 | 18357.4 | 20273.4 | 20840.8 | 15643.4 |
| 65° | 4042.3 | 4295.5 | 5583.2 | 7897.0 | 11620.3 | 16304.0 | 20984.1 | 21200.3 | 22006.6 | 22510.7 | 17797.2 |
| 67.5° | 2455.9 | 2551.5 | 3179.8 | 4392.3 | 7124.1 | 12700.1 | 21920.6 | 25939.0 | 25360.9 | 25628.4 | 20868.3 |
| 70° | 1809.7 | 1880.2 | 2272.0 | 2917.0 | 4097.2 | 7452.6 | 19046.6 | 29320.7 | 28940.8 | 28911.0 | 23137.9 |
| 72° | 1409.5 | 1460.9 | 1807.3 | 2356.8 | 2995.9 | 4471.1 | 13805.1 | 28072.4 | 29965.7 | 29815.2 | 22930.0 |
| 72.5° | 1336.7 | 1382.1 | 1697.4 | 2218.2 | 2831.0 | 4053.0 | 12412.3 | 27230.3 | 29891.7 | 29823.6 | 22661.2 |
| 75° | 1052.4 | 1084.6 | 1256.6 | 1715.3 | 2215.8 | 2299.5 | 6801.6 | 21102.4 | 26517.2 | 27619.7 | 20382.1 |
| 77.5° | 870.8 | 875.6 | 966.4 | 1248.3 | 1727.3 | 1625.7 | 3341.1 | 14641.2 | 18988.1 | 20200.5 | 14438.2 |
| 80° | 709.5 | 715.5 | 758.5 | 875.6 | 1306.8 | 1202.9 | 1586.3 | 8419.0 | 10631.2 | 10644.4 | 6866.1 |
| 82.5° | 565.0 | 566.2 | 614.0 | 640.3 | 938.9 | 860.1 | 909.0 | 3952.7 | 4645.5 | 4468.7 | 2467.9 |
| 85° | 397.8 | 389.4 | 599.6 | 525.6 | 614.0 | 551.9 | 501.7 | 1564.8 | 1920.8 | 1837.2 | 772.9 |
| 87.5° | 132.6 | 137.4 | 266.4 | 340.4 | 358.4 | 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° | 4268.0 | 4268.0 | 4268.0 | 4268.0 | 4268.0 | 4268.0 | 4268.0 | 4268.0 | 4268.0 | 4268.0 | 4268.0 |
| 2.5° | 4289.5 | 4251.3 | 4195.2 | 4133.0 | 4084.1 | 4033.9 | 3996.9 | 3977.8 | 3956.3 | 3938.3 | 3959.8 |
| 5° | 4334.9 | 4263.2 | 4143.8 | 4026.7 | 3940.7 | 3864.3 | 3809.3 | 3780.7 | 3754.4 | 3736.5 | 3738.8 |
| 7.5° | 4409.0 | 4293.1 | 4092.4 | 3921.6 | 3802.2 | 3719.7 | 3663.6 | 3644.5 | 3627.8 | 3623.0 | 3629.0 |
| 10° | 4487.8 | 4317.0 | 4024.3 | 3797.4 | 3661.2 | 3593.1 | 3568.0 | 3581.2 | 3593.1 | 3603.9 | 3615.8 |
| 12.5° | 4577.4 | 4338.5 | 3925.2 | 3651.6 | 3535.8 | 3509.5 | 3534.6 | 3591.9 | 3633.7 | 3658.8 | 3674.3 |
| 15° | 4694.5 | 4357.6 | 3810.5 | 3505.9 | 3428.3 | 3458.1 | 3542.9 | 3642.1 | 3715.0 | 3761.5 | 3768.7 |
| 17.5° | 4802.0 | 4356.4 | 3663.6 | 3359.0 | 3341.1 | 3428.3 | 3556.1 | 3695.8 | 3793.8 | 3859.5 | 3872.6 |
| 20° | 4913.1 | 4324.2 | 3492.8 | 3215.6 | 3252.7 | 3396.0 | 3562.1 | 3730.5 | 3848.7 | 3925.2 | 3943.1 |
| 22.5° | 5017.0 | 4268.0 | 3305.2 | 3085.4 | 3178.6 | 3353.0 | 3539.4 | 3710.2 | 3828.4 | 3890.6 | 3909.7 |
| 25° | 5087.5 | 4170.1 | 3115.3 | 2975.6 | 3112.9 | 3300.5 | 3465.3 | 3602.7 | 3691.1 | 3722.1 | 3726.9 |
| 27.5° | 5123.3 | 4042.3 | 2936.1 | 2880.0 | 3044.8 | 3214.5 | 3327.9 | 3396.0 | 3421.1 | 3418.7 | 3413.9 |
| 30° | 5128.1 | 3873.8 | 2782.0 | 2802.3 | 2966.0 | 3087.8 | 3141.6 | 3128.4 | 3096.2 | 3041.2 | 3046.0 |
| 32.5° | 5112.5 | 3683.9 | 2653.0 | 2728.3 | 2865.7 | 2933.7 | 2936.1 | 2872.8 | 2786.8 | 2699.6 | 2675.7 |
| 35° | 5117.3 | 3497.6 | 2539.6 | 2644.7 | 2743.8 | 2773.7 | 2746.2 | 2653.0 | 2536.0 | 2423.7 | 2399.8 |
| 37.5° | 5169.9 | 3335.1 | 2441.6 | 2547.9 | 2608.8 | 2616.0 | 2576.6 | 2478.6 | 2392.6 | 2282.7 | 2273.2 |
| 40° | 5295.3 | 3219.2 | 2348.4 | 2439.2 | 2473.9 | 2477.4 | 2421.3 | 2352.0 | 2359.2 | 2300.6 | 2299.5 |
| 42.5° | 5521.1 | 3169.1 | 2266.0 | 2325.7 | 2347.2 | 2354.4 | 2311.4 | 2267.2 | 2329.3 | 2291.1 | 2278.0 |
| 45° | 5812.5 | 3181.0 | 2196.7 | 2214.6 | 2254.1 | 2287.5 | 2261.2 | 2207.5 | 2231.4 | 2065.3 | 2010.4 |
| 47.5° | 6149.4 | 3257.5 | 2141.8 | 2119.1 | 2187.2 | 2250.5 | 2209.9 | 2128.6 | 2043.8 | 1879.0 | 1847.9 |
| 50° | 6543.6 | 3375.7 | 2091.6 | 2024.7 | 2114.3 | 2200.3 | 2159.7 | 2043.8 | 1916.0 | 1836.0 | 1825.2 |
| 52.5° | 6954.5 | 3520.3 | 2041.4 | 1920.8 | 2022.3 | 2162.1 | 2141.8 | 2024.7 | 1867.0 | 1788.2 | 1773.9 |
| 55° | 7420.4 | 3666.0 | 1978.1 | 1800.1 | 1923.2 | 2144.2 | 2133.4 | 1955.4 | 1830.0 | 1785.8 | 1775.1 |
| 57.5° | 7999.7 | 3832.0 | 1894.5 | 1674.7 | 1830.0 | 2079.7 | 2046.2 | 1913.6 | 1791.8 | 1758.3 | 1754.8 |
| 60° | 8754.6 | 4076.9 | 1773.9 | 1540.9 | 1716.5 | 1980.5 | 1973.3 | 1852.7 | 1730.9 | 1707.0 | 1702.2 |
| 62.5° | 9887.0 | 4481.8 | 1607.8 | 1407.1 | 1589.9 | 1812.1 | 1877.8 | 1770.3 | 1666.4 | 1665.2 | 1667.6 |
| 65° | 11643.0 | 5091.0 | 1427.5 | 1290.1 | 1462.1 | 1669.9 | 1766.7 | 1685.5 | 1600.7 | 1624.5 | 1628.1 |
| 67.5° | 13678.5 | 5596.3 | 1250.7 | 1175.4 | 1331.9 | 1535.0 | 1666.4 | 1600.7 | 1513.5 | 1575.6 | 1576.8 |
| 70° | 14355.7 | 5144.8 | 1095.4 | 1061.9 | 1196.9 | 1404.8 | 1557.7 | 1507.5 | 1419.1 | 1481.2 | 1475.2 |
| 72° | 13359.5 | 4153.3 | 995.0 | 975.9 | 1095.4 | 1297.2 | 1460.9 | 1420.3 | 1333.1 | 1374.9 | 1359.4 |
| 72.5° | 13045.4 | 3959.8 | 970.0 | 954.4 | 1067.9 | 1269.8 | 1435.8 | 1398.8 | 1311.6 | 1347.4 | 1333.1 |
| 75° | 11637.0 | 3439.0 | 833.8 | 837.4 | 931.7 | 1136.0 | 1294.9 | 1282.9 | 1193.3 | 1196.9 | 1192.1 |
| 77.5° | 8440.5 | 2521.6 | 702.4 | 726.3 | 793.2 | 998.6 | 1152.7 | 1145.5 | 1047.6 | 1029.7 | 1026.1 |
| 80° | 3916.8 | 1286.5 | 572.2 | 582.9 | 652.2 | 835.0 | 983.1 | 973.5 | 894.7 | 872.0 | 858.9 |
| 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 | 293.9 | 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 | 358.4 | 539.9 | 459.9 | 445.6 | 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)