

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: P321932

Luminaire Tested: **GAN-SA8C-740-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40327 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

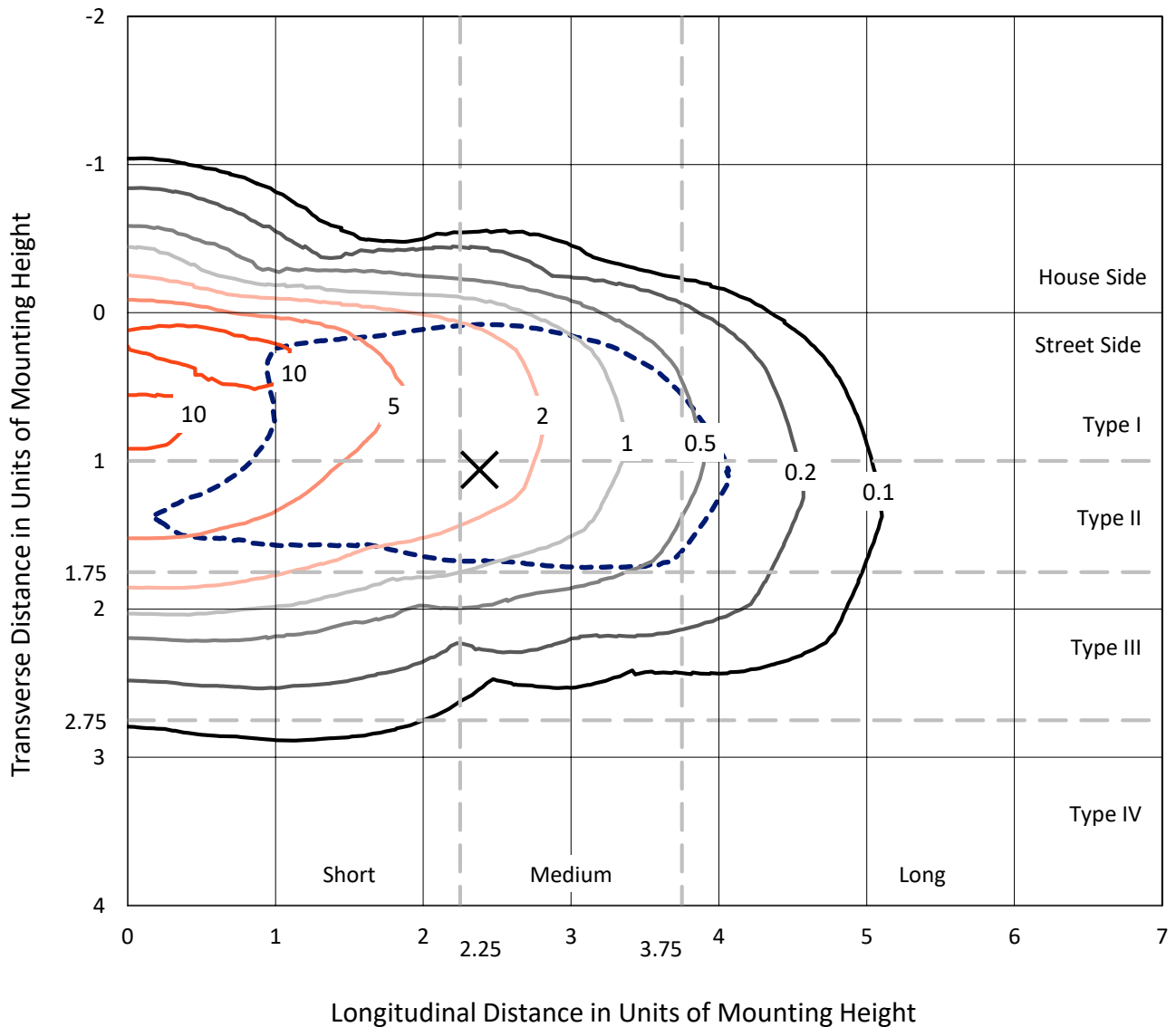
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

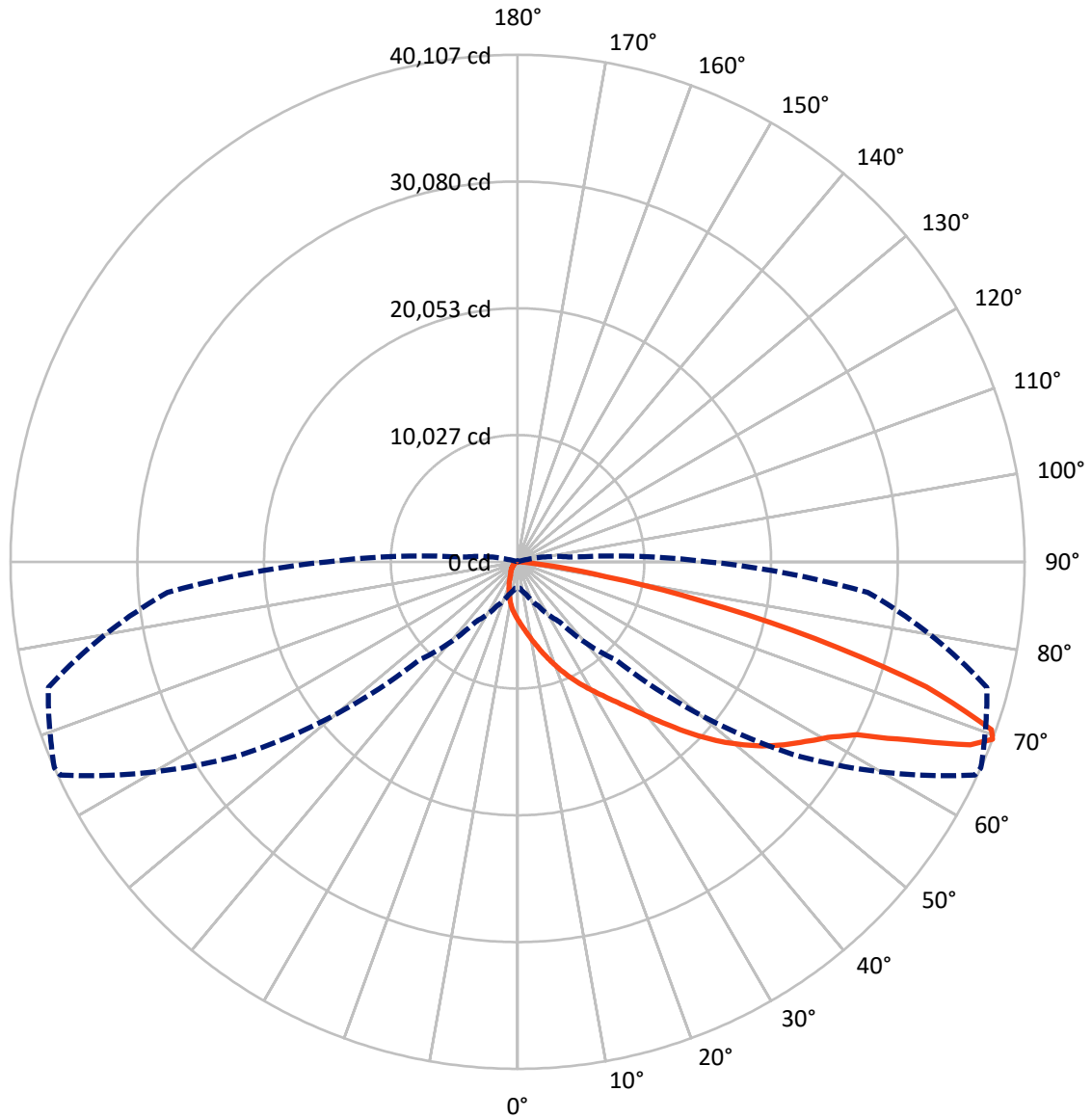
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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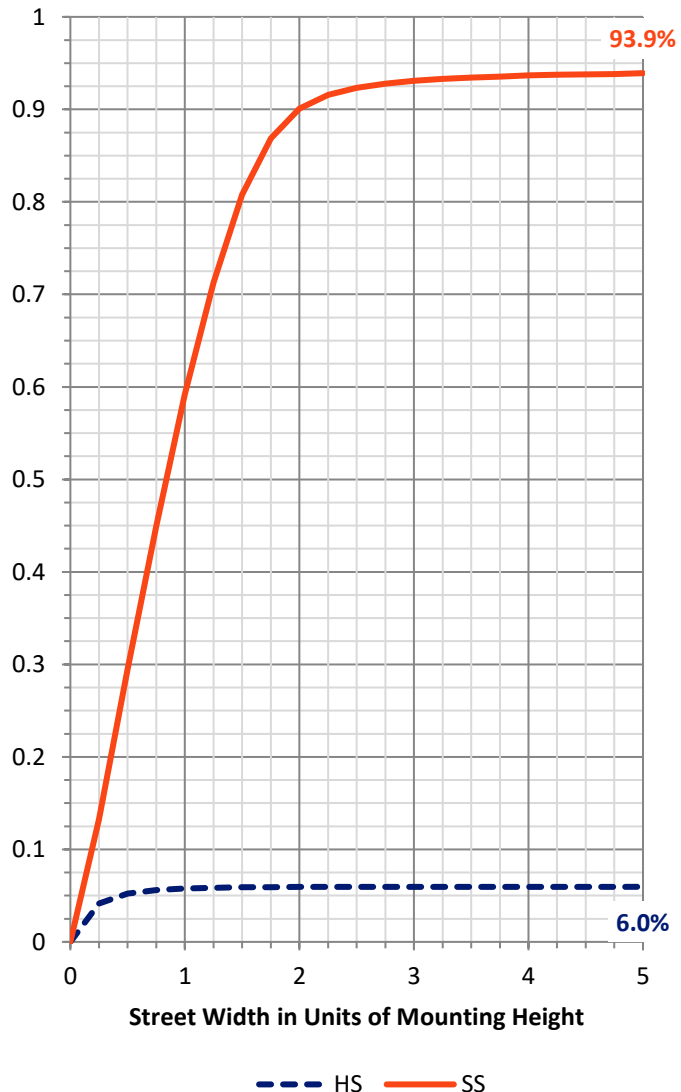
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2419.1 | 0.0 | 2419.1 |
| | % Fixture | 6.0 | 0.0 | 6.0 |
| Street Side | Lumens | 37907.9 | 0.0 | 37907.9 |
| | % Fixture | 94.0 | 0.0 | 94.0 |
| Total | Lumens | 40327.0 | 0.0 | 40327.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 443.6 | 1.1 |
| 10°-20° | 1320.3 | 3.3 |
| 20°-30° | 2299.1 | 5.7 |
| 30°-40° | 4033.8 | 10.0 |
| 40°-50° | 6752.0 | 16.7 |
| 50°-60° | 9924.7 | 24.6 |
| 60°-70° | 10190.2 | 25.3 |
| 70°-80° | 5030.6 | 12.5 |
| 80°-90° | 332.6 | 0.8 |
| 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° | 40327.0 | 100.0 |
| 0°-180° | 40327.0 | 100.0 |

Coefficient of Utilization

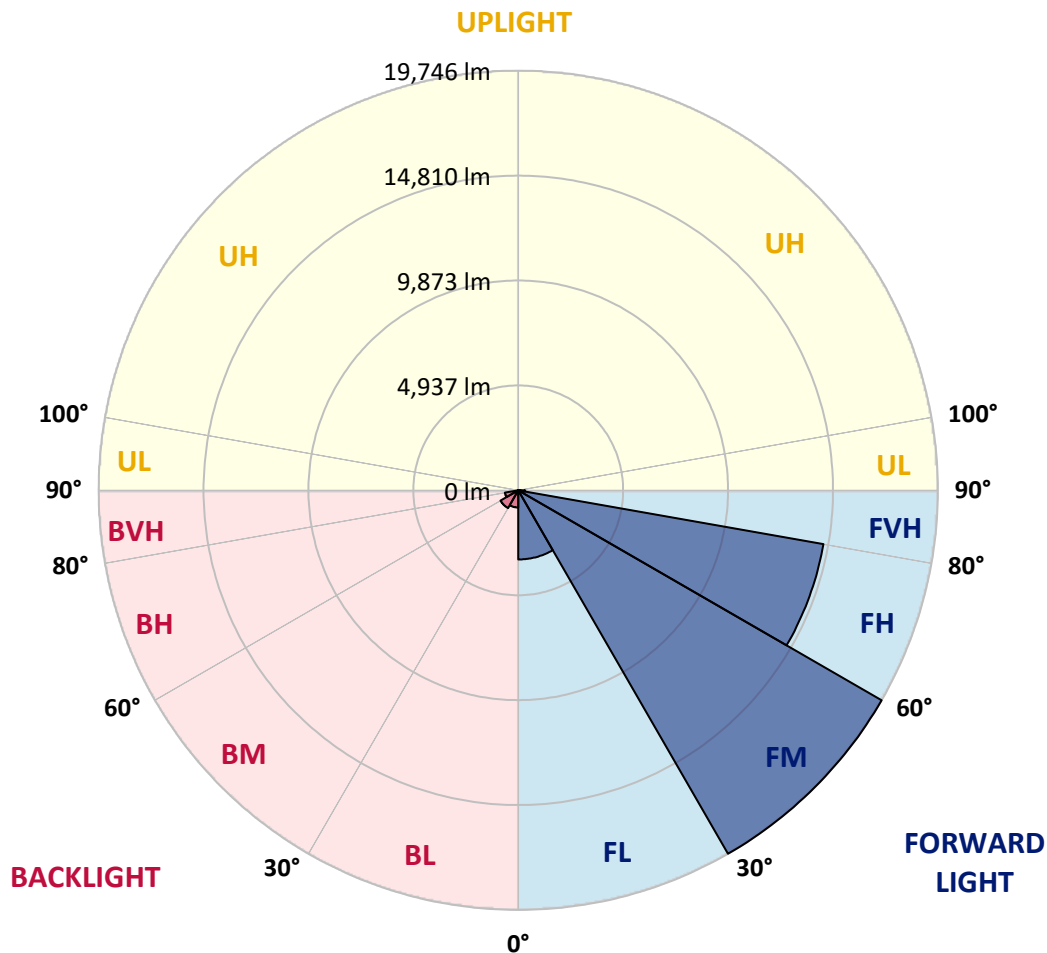


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3254.0 | 8.1 | | | |
| FM (30°-60°) | 19746.0 | 49.0 | | | |
| FH (60°-80°) | 14583.3 | 36.2 | | | G5 |
| FVH (80°-90°) | 324.6 | 0.8 | | | G3/500 |
| BL (0°-30°) | 809.0 | 2.0 | B2/1000 | | |
| BM (30°-60°) | 964.5 | 2.4 | B1/1000 | | |
| BH (60°-80°) | 637.5 | 1.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 8.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4589.3 | 4589.3 | 4589.3 | 4589.3 | 4589.3 | 4589.3 | 4589.3 | 4589.3 | 4589.3 | 4589.3 | 4589.3 |
| 2.5° | 5401.5 | 5378.5 | 5368.9 | 5326.8 | 5254.0 | 5198.4 | 5091.2 | 4966.7 | 4943.7 | 4823.0 | 4675.5 |
| 5° | 6102.5 | 6083.4 | 6070.0 | 6010.6 | 5935.9 | 5796.1 | 5600.7 | 5368.9 | 5324.9 | 5095.0 | 4800.0 |
| 7.5° | 6591.0 | 6625.4 | 6625.4 | 6587.1 | 6493.3 | 6387.9 | 6148.5 | 5832.4 | 5776.9 | 5424.5 | 4966.7 |
| 10° | 6876.4 | 6918.5 | 6951.1 | 6983.6 | 6970.2 | 6928.1 | 6702.0 | 6345.8 | 6278.7 | 5811.4 | 5160.1 |
| 12.5° | 6903.2 | 6945.3 | 7037.2 | 7173.2 | 7305.4 | 7401.2 | 7259.4 | 6914.7 | 6838.0 | 6259.6 | 5390.0 |
| 15° | 6753.8 | 6797.8 | 6939.6 | 7203.9 | 7523.8 | 7803.4 | 7849.4 | 7544.8 | 7466.3 | 6794.0 | 5677.3 |
| 17.5° | 6493.3 | 6522.0 | 6725.0 | 7090.9 | 7592.7 | 8106.0 | 8383.8 | 8221.0 | 8148.2 | 7405.0 | 5997.2 |
| 20° | 6299.8 | 6320.9 | 6499.0 | 6891.7 | 7550.6 | 8295.7 | 8889.5 | 8939.3 | 8862.6 | 8060.1 | 6343.9 |
| 22.5° | 6631.2 | 6669.5 | 6675.2 | 6861.0 | 7435.7 | 8389.5 | 9333.8 | 9646.0 | 9588.6 | 8755.4 | 6684.8 |
| 25° | 7537.2 | 7581.2 | 7435.7 | 7320.7 | 7533.3 | 8431.7 | 9715.0 | 10370.1 | 10324.1 | 9504.3 | 7027.7 |
| 27.5° | 8734.3 | 8780.3 | 8592.6 | 8249.7 | 8044.8 | 8590.7 | 10054.0 | 11105.6 | 11103.7 | 10297.3 | 7397.3 |
| 30° | 9910.4 | 9956.3 | 9764.8 | 9421.9 | 8950.7 | 9040.8 | 10347.1 | 11875.6 | 11887.1 | 11115.2 | 7790.0 |
| 32.5° | 11143.9 | 11201.4 | 11004.1 | 10563.5 | 10071.3 | 9818.4 | 10758.9 | 12649.4 | 12714.5 | 12063.3 | 8232.5 |
| 35° | 12546.0 | 12553.7 | 12275.9 | 11814.3 | 11247.3 | 10858.5 | 11419.7 | 13517.1 | 13672.3 | 13237.5 | 8793.7 |
| 37.5° | 13921.3 | 13976.8 | 13748.9 | 13021.0 | 12500.0 | 12059.5 | 12402.3 | 14601.2 | 14821.5 | 14672.1 | 9527.3 |
| 40° | 14940.3 | 15057.1 | 15024.5 | 14239.2 | 13745.0 | 13430.9 | 13622.5 | 15890.3 | 16170.0 | 16342.3 | 10452.4 |
| 42.5° | 15580.0 | 15668.1 | 15817.5 | 15344.4 | 14896.2 | 14947.9 | 15062.8 | 17392.0 | 17736.8 | 18246.3 | 11515.5 |
| 45° | 16313.6 | 16355.8 | 16480.3 | 16271.5 | 15968.8 | 16489.8 | 16591.4 | 19083.3 | 19445.3 | 20293.9 | 12695.4 |
| 47.5° | 17210.0 | 17309.6 | 17344.1 | 17152.6 | 17014.7 | 17853.6 | 18064.3 | 20621.4 | 21129.0 | 22487.0 | 13944.2 |
| 50° | 18351.6 | 18378.4 | 18437.8 | 18313.3 | 18175.4 | 19025.8 | 19385.9 | 22236.1 | 22697.7 | 24687.8 | 15175.9 |
| 52.5° | 19468.3 | 19564.1 | 19770.9 | 19692.4 | 19636.9 | 20023.8 | 20563.9 | 23691.8 | 24207.1 | 26522.8 | 16405.6 |
| 55° | 19790.1 | 19872.5 | 20586.9 | 21075.3 | 21527.4 | 21253.5 | 21690.2 | 24996.2 | 25553.6 | 28162.4 | 17589.3 |
| 57.5° | 18504.9 | 18671.5 | 19908.9 | 21180.7 | 23055.9 | 23165.1 | 23237.9 | 26335.1 | 26835.0 | 29418.9 | 18820.9 |
| 60° | 15256.3 | 15288.9 | 17319.2 | 19500.9 | 22803.1 | 24833.4 | 25498.0 | 27773.6 | 28193.0 | 30589.2 | 20295.8 |
| 62.5° | 9703.5 | 10034.9 | 12262.5 | 15342.5 | 20129.1 | 24592.1 | 28231.3 | 29949.5 | 30102.7 | 31993.2 | 22410.4 |
| 65° | 4621.9 | 4836.4 | 6441.6 | 9479.4 | 14580.2 | 21502.5 | 30118.0 | 33885.7 | 33954.6 | 34776.3 | 25235.6 |
| 67.5° | 2559.0 | 2662.4 | 3426.7 | 5102.7 | 8523.6 | 15206.5 | 29355.7 | 38547.8 | 38612.9 | 37618.8 | 27714.2 |
| 69° | 2001.6 | 2089.7 | 2691.2 | 3846.2 | 5778.8 | 10929.4 | 26564.9 | 39913.5 | 40106.9 | 38432.9 | 27802.3 |
| 70° | 1699.0 | 1785.2 | 2317.7 | 3248.5 | 4646.8 | 8445.1 | 23645.8 | 39574.5 | 39779.4 | 38356.2 | 27145.3 |
| 72.5° | 1040.1 | 1089.9 | 1543.8 | 2287.0 | 3114.5 | 4248.4 | 14582.1 | 33468.1 | 33814.8 | 35184.3 | 23329.8 |
| 75° | 701.0 | 727.9 | 965.4 | 1578.3 | 2227.6 | 2187.4 | 7575.5 | 23590.3 | 24341.1 | 27369.4 | 17231.1 |
| 77.5° | 501.8 | 526.7 | 647.4 | 1020.9 | 1561.1 | 1444.2 | 3430.5 | 14660.6 | 14821.5 | 16415.1 | 9397.0 |
| 80° | 285.4 | 308.4 | 457.8 | 607.2 | 1059.2 | 963.5 | 1363.8 | 7002.8 | 7083.2 | 7039.2 | 3137.5 |
| 82.5° | 149.4 | 168.6 | 250.9 | 400.3 | 680.0 | 630.2 | 567.0 | 2344.5 | 2356.0 | 1959.5 | 687.6 |
| 85° | 28.7 | 34.5 | 124.5 | 273.9 | 350.5 | 273.9 | 231.8 | 549.7 | 561.2 | 496.1 | 170.5 |
| 87.5° | 0.0 | 1.9 | 49.8 | 61.3 | 69.0 | 70.9 | 74.7 | 107.3 | 114.9 | 155.1 | 46.0 |
| 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° | 4589.3 | 4589.3 | 4589.3 | 4589.3 | 4589.3 | 4589.3 | 4589.3 | 4589.3 | 4589.3 | 4589.3 | 4589.3 |
| 2.5° | 4610.4 | 4541.5 | 4409.3 | 4256.1 | 4137.3 | 4020.5 | 3928.5 | 3832.8 | 3798.3 | 3781.0 | 3779.1 |
| 5° | 4656.4 | 4510.8 | 4231.2 | 3943.8 | 3708.2 | 3486.1 | 3327.1 | 3175.8 | 3104.9 | 3072.3 | 3058.9 |
| 7.5° | 4733.0 | 4499.3 | 4049.2 | 3610.6 | 3271.5 | 2993.8 | 2773.5 | 2608.8 | 2526.4 | 2492.0 | 2478.6 |
| 10° | 4823.0 | 4484.0 | 3836.6 | 3258.1 | 2825.2 | 2537.9 | 2319.6 | 2156.8 | 2066.7 | 2028.4 | 2009.3 |
| 12.5° | 4928.4 | 4457.2 | 3591.4 | 2901.9 | 2444.1 | 2156.8 | 1892.4 | 1691.3 | 1587.9 | 1543.8 | 1522.8 |
| 15° | 5058.6 | 4430.4 | 3334.7 | 2566.7 | 2108.9 | 1758.4 | 1469.1 | 1333.1 | 1312.1 | 1304.4 | 1306.3 |
| 17.5° | 5187.0 | 4388.2 | 3055.1 | 2235.3 | 1756.4 | 1373.4 | 1225.9 | 1218.2 | 1222.0 | 1222.0 | 1222.0 |
| 20° | 5301.9 | 4292.5 | 2750.5 | 1951.8 | 1421.2 | 1158.8 | 1128.2 | 1114.8 | 1105.2 | 1097.5 | 1088.0 |
| 22.5° | 5391.9 | 4164.1 | 2457.5 | 1670.2 | 1160.7 | 1061.1 | 1013.3 | 971.1 | 936.6 | 913.7 | 902.2 |
| 25° | 5453.2 | 3993.6 | 2189.3 | 1400.2 | 1043.9 | 965.4 | 879.2 | 808.3 | 754.7 | 722.1 | 708.7 |
| 27.5° | 5499.2 | 3809.8 | 1949.9 | 1172.2 | 963.5 | 854.3 | 741.3 | 657.0 | 601.4 | 572.7 | 561.2 |
| 30° | 5531.7 | 3601.0 | 1739.2 | 1030.5 | 873.4 | 737.4 | 616.8 | 534.4 | 494.2 | 478.9 | 471.2 |
| 32.5° | 5562.4 | 3369.2 | 1540.0 | 963.5 | 789.2 | 630.2 | 517.2 | 454.0 | 429.1 | 409.9 | 404.2 |
| 35° | 5639.0 | 3154.7 | 1350.4 | 892.6 | 703.0 | 538.2 | 444.4 | 398.4 | 373.5 | 362.0 | 358.2 |
| 37.5° | 5821.0 | 2995.7 | 1168.4 | 819.8 | 616.8 | 465.4 | 388.8 | 356.3 | 333.3 | 321.8 | 318.0 |
| 40° | 6114.0 | 2915.3 | 1015.2 | 741.3 | 532.5 | 409.9 | 352.4 | 321.8 | 296.9 | 279.7 | 275.8 |
| 42.5° | 6545.0 | 2926.8 | 907.9 | 662.7 | 465.4 | 365.8 | 318.0 | 281.6 | 254.8 | 239.4 | 235.6 |
| 45° | 7067.9 | 3011.0 | 833.2 | 586.1 | 409.9 | 331.4 | 279.7 | 241.3 | 216.4 | 203.0 | 199.2 |
| 47.5° | 7634.9 | 3147.0 | 771.9 | 517.2 | 365.8 | 298.8 | 241.3 | 201.1 | 180.0 | 168.6 | 166.6 |
| 50° | 8232.5 | 3279.2 | 708.7 | 450.1 | 327.5 | 266.2 | 203.0 | 166.6 | 149.4 | 139.8 | 136.0 |
| 52.5° | 8837.7 | 3432.4 | 651.2 | 388.8 | 295.0 | 227.9 | 168.6 | 136.0 | 122.6 | 114.9 | 111.1 |
| 55° | 9489.0 | 3547.4 | 595.7 | 340.9 | 262.4 | 193.5 | 139.8 | 113.0 | 101.5 | 91.9 | 90.0 |
| 57.5° | 10255.1 | 3725.5 | 538.2 | 295.0 | 224.1 | 160.9 | 114.9 | 90.0 | 80.4 | 70.9 | 69.0 |
| 60° | 11289.5 | 3934.3 | 476.9 | 260.5 | 183.9 | 132.2 | 93.9 | 72.8 | 61.3 | 53.6 | 51.7 |
| 62.5° | 12653.3 | 4166.0 | 400.3 | 227.9 | 149.4 | 107.3 | 74.7 | 57.5 | 44.1 | 34.5 | 34.5 |
| 65° | 14382.9 | 4543.4 | 327.5 | 191.5 | 122.6 | 88.1 | 57.5 | 42.1 | 24.9 | 15.3 | 15.3 |
| 67.5° | 15392.3 | 4608.5 | 264.3 | 157.1 | 99.6 | 74.7 | 47.9 | 28.7 | 7.7 | 1.9 | 0.0 |
| 69° | 15068.6 | 4231.2 | 224.1 | 134.1 | 86.2 | 70.9 | 44.1 | 21.1 | 3.8 | 0.0 | 0.0 |
| 70° | 14459.5 | 3869.1 | 197.3 | 118.8 | 78.5 | 67.0 | 42.1 | 15.3 | 3.8 | 0.0 | 0.0 |
| 72.5° | 11948.4 | 2754.4 | 149.4 | 88.1 | 57.5 | 59.4 | 38.3 | 9.6 | 3.8 | 0.0 | 0.0 |
| 75° | 8703.7 | 1674.1 | 107.3 | 61.3 | 36.4 | 44.1 | 26.8 | 3.8 | 1.9 | 0.0 | 0.0 |
| 77.5° | 4842.2 | 789.2 | 67.0 | 34.5 | 23.0 | 26.8 | 13.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 1572.6 | 214.5 | 30.6 | 19.2 | 13.4 | 15.3 | 5.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 291.1 | 61.3 | 17.2 | 9.6 | 3.8 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 63.2 | 24.9 | 9.6 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 21.1 | 7.7 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)