

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: P654373

Luminaire Tested: **GLAN-SA5B-840-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P654373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5B-840-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23458 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

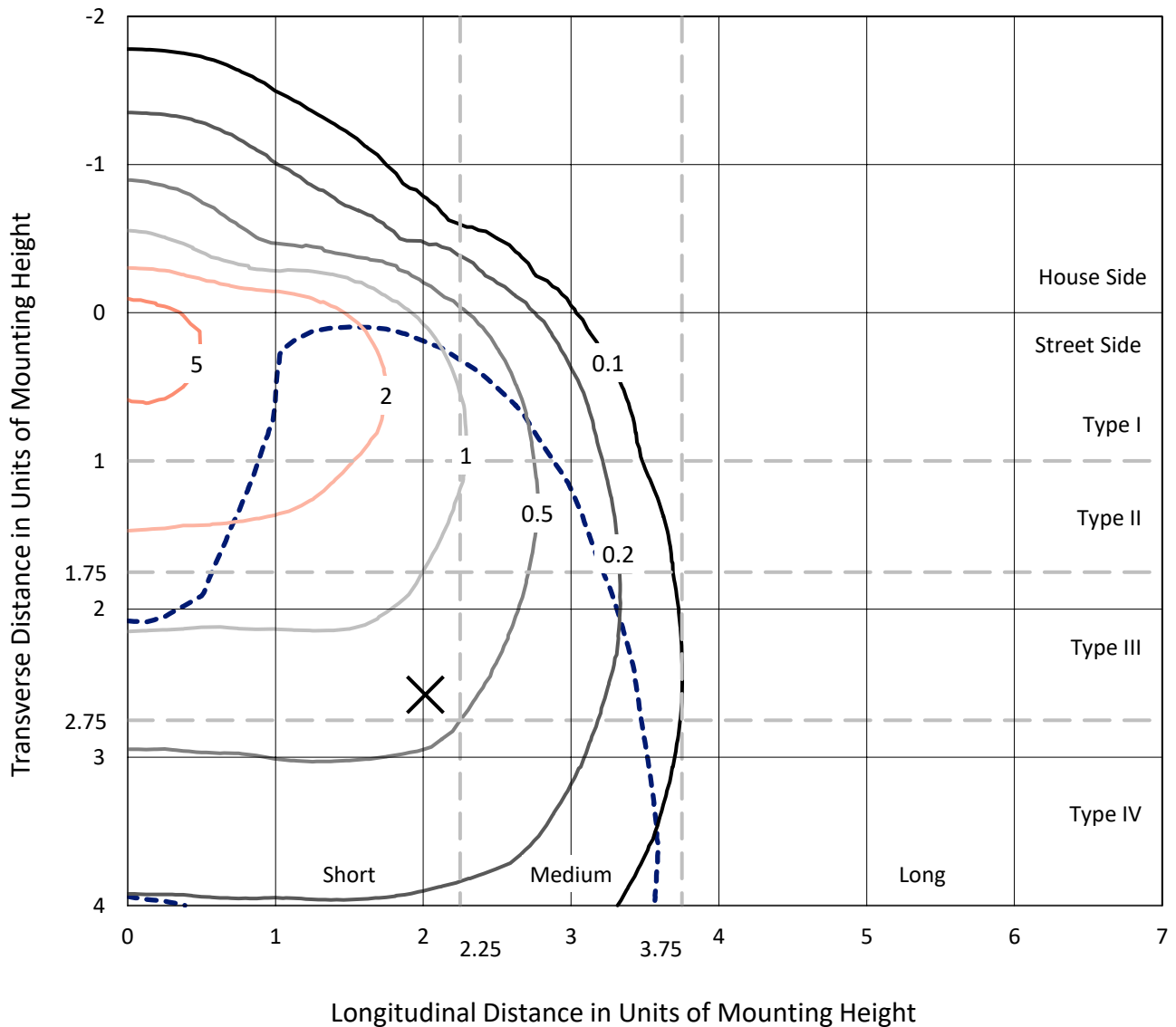
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

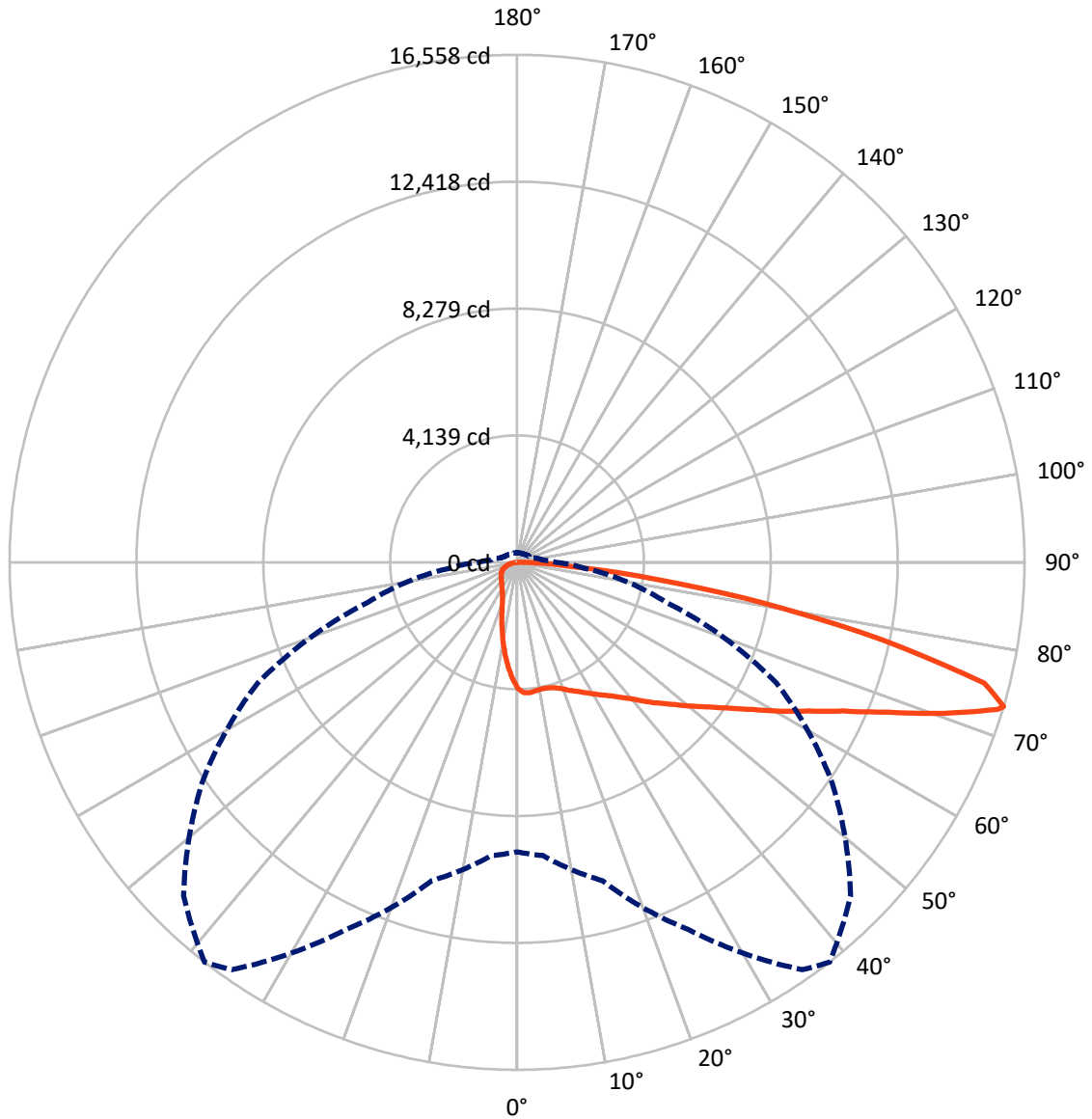
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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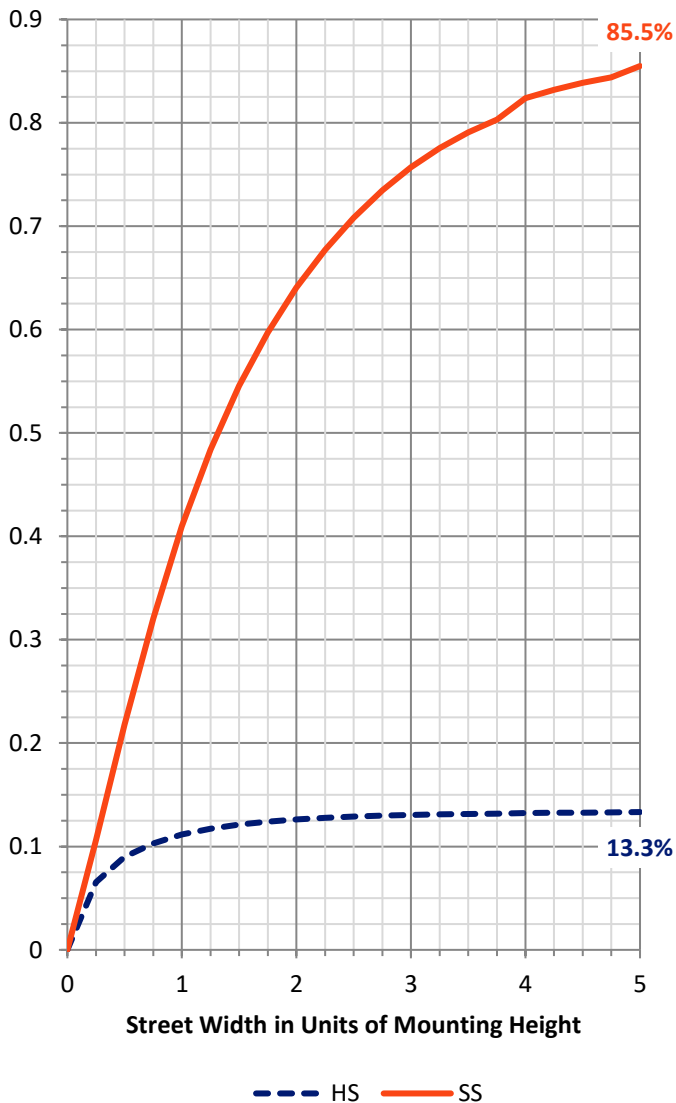
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3153.5 | 0.0 | 3153.5 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 20304.6 | 0.0 | 20304.6 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 23458.0 | 0.0 | 23458.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 359.7 | 1.5 |
| 10°-20° | 922.5 | 3.9 |
| 20°-30° | 1436.5 | 6.1 |
| 30°-40° | 2107.0 | 9.0 |
| 40°-50° | 3125.5 | 13.3 |
| 50°-60° | 4428.1 | 18.9 |
| 60°-70° | 5617.2 | 23.9 |
| 70°-80° | 4675.9 | 19.9 |
| 80°-90° | 785.6 | 3.3 |
| 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° | 23458.0 | 100.0 |
| 0°-180° | 23458.0 | 100.0 |

Coefficient of Utilization



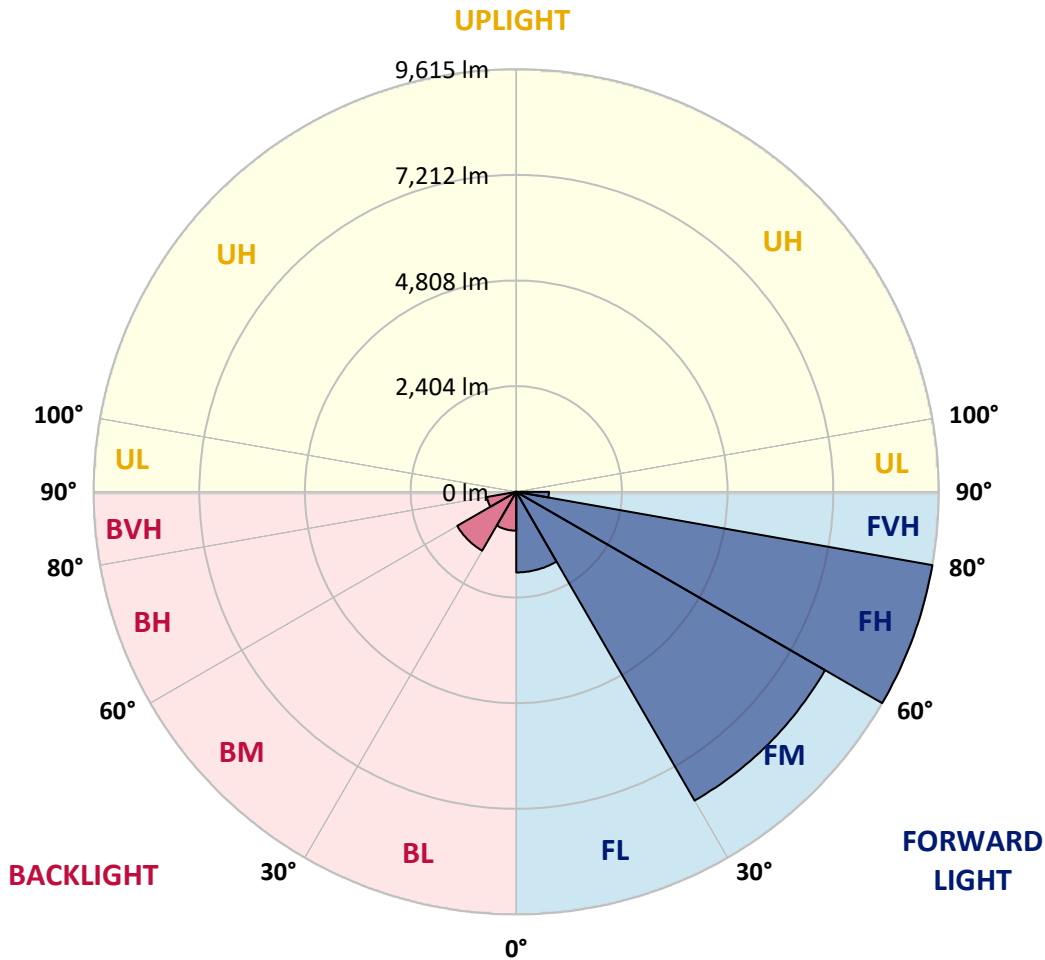
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1833.8 | 7.8 | | | |
| FM (30°-60°) | 8112.4 | 34.6 | | | |
| FH (60°-80°) | 9615.3 | 41.0 | | | G4/12000 |
| FVH (80°-90°) | 743.0 | 3.2 | | | G4/750 |
| BL (0°-30°) | 884.9 | 3.8 | B2/1000 | | |
| BM (30°-60°) | 1548.2 | 6.6 | B2/2500 | | |
| BH (60°-80°) | 677.8 | 2.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 42.6 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 4121.2 | 4121.2 | 4121.2 | 4121.2 | 4121.2 | 4121.2 | 4121.2 | 4121.2 | 4121.2 | 4121.2 | 4121.2 |
| 2.5° | 4286.7 | 4307.9 | 4297.3 | 4282.8 | 4273.5 | 4264.2 | 4251.0 | 4212.6 | 4182.1 | 4149.0 | 4097.4 |
| 5° | 4318.5 | 4331.8 | 4322.6 | 4304.0 | 4282.8 | 4273.5 | 4248.3 | 4198.0 | 4149.0 | 4093.3 | 4016.5 |
| 7.5° | 4300.0 | 4305.3 | 4294.7 | 4272.2 | 4253.6 | 4236.5 | 4207.3 | 4151.7 | 4092.1 | 4024.4 | 3923.8 |
| 10° | 4233.8 | 4253.6 | 4253.6 | 4235.1 | 4216.5 | 4207.3 | 4178.2 | 4125.2 | 4070.9 | 3994.0 | 3874.7 |
| 12.5° | 4179.4 | 4200.6 | 4217.9 | 4212.6 | 4211.2 | 4211.2 | 4188.8 | 4149.0 | 4085.4 | 4012.6 | 3870.8 |
| 15° | 4142.3 | 4167.6 | 4204.7 | 4225.9 | 4239.1 | 4243.0 | 4233.8 | 4199.4 | 4134.4 | 4049.7 | 3886.7 |
| 17.5° | 4134.4 | 4164.9 | 4232.4 | 4278.8 | 4313.2 | 4312.0 | 4309.3 | 4261.6 | 4190.0 | 4102.7 | 3906.6 |
| 20° | 4170.2 | 4210.0 | 4304.0 | 4376.8 | 4427.2 | 4417.9 | 4403.3 | 4341.1 | 4257.6 | 4159.6 | 3925.1 |
| 22.5° | 4277.5 | 4318.5 | 4421.9 | 4501.4 | 4550.4 | 4550.4 | 4506.7 | 4424.5 | 4335.8 | 4225.9 | 3950.3 |
| 25° | 4431.1 | 4476.2 | 4586.1 | 4667.0 | 4689.5 | 4672.3 | 4628.5 | 4529.2 | 4427.2 | 4321.2 | 4003.2 |
| 27.5° | 4619.3 | 4673.6 | 4775.6 | 4843.2 | 4836.5 | 4823.3 | 4778.2 | 4651.1 | 4549.1 | 4452.3 | 4093.3 |
| 30° | 4853.7 | 4893.4 | 4999.5 | 5015.4 | 4991.5 | 4988.9 | 4925.3 | 4798.1 | 4702.7 | 4628.5 | 4221.8 |
| 32.5° | 5074.9 | 5110.8 | 5195.5 | 5202.2 | 5159.8 | 5165.1 | 5105.5 | 4988.9 | 4934.6 | 4908.1 | 4437.8 |
| 35° | 5309.4 | 5328.0 | 5400.8 | 5392.9 | 5365.1 | 5361.1 | 5337.2 | 5226.0 | 5243.2 | 5290.9 | 4743.8 |
| 37.5° | 5505.5 | 5542.6 | 5583.7 | 5590.3 | 5588.9 | 5602.2 | 5618.1 | 5565.1 | 5664.5 | 5814.2 | 5145.2 |
| 40° | 5685.7 | 5717.5 | 5778.4 | 5799.6 | 5851.3 | 5877.7 | 5932.1 | 5933.3 | 6162.6 | 6408.9 | 5639.3 |
| 42.5° | 5807.5 | 5861.9 | 5975.8 | 6014.2 | 6140.1 | 6219.5 | 6300.4 | 6386.5 | 6718.9 | 7035.6 | 6222.1 |
| 45° | 5913.5 | 5985.1 | 6174.5 | 6293.7 | 6464.6 | 6561.3 | 6732.2 | 6912.3 | 7390.5 | 7805.2 | 6814.3 |
| 47.5° | 6073.8 | 6137.4 | 6354.6 | 6565.3 | 6823.6 | 6934.9 | 7190.6 | 7459.4 | 8084.7 | 8539.1 | 7381.3 |
| 50° | 6296.3 | 6334.7 | 6556.0 | 6899.1 | 7229.0 | 7372.0 | 7709.8 | 8098.0 | 8826.5 | 9263.7 | 7879.4 |
| 52.5° | 6581.2 | 6597.1 | 6773.2 | 7230.2 | 7664.8 | 7842.3 | 8290.1 | 8743.1 | 9475.6 | 9892.9 | 8274.2 |
| 55° | 6917.6 | 6891.2 | 7028.9 | 7581.3 | 8162.8 | 8394.7 | 8875.6 | 9396.2 | 10205.5 | 10401.7 | 8561.6 |
| 57.5° | 7250.2 | 7209.1 | 7319.1 | 8007.9 | 8777.5 | 9057.1 | 9617.4 | 10069.1 | 10857.3 | 10877.2 | 8763.0 |
| 60° | 7602.6 | 7572.0 | 7703.2 | 8508.6 | 9531.3 | 9862.5 | 10380.5 | 10767.2 | 11487.9 | 11208.3 | 8794.8 |
| 62.5° | 7964.2 | 7915.2 | 8101.9 | 9071.6 | 10380.5 | 10681.1 | 11183.2 | 11509.1 | 12106.5 | 11331.5 | 8488.7 |
| 65° | 8315.2 | 8292.7 | 8581.5 | 9740.6 | 11347.4 | 11689.2 | 12176.8 | 12397.9 | 12602.0 | 11146.1 | 7729.7 |
| 67.5° | 8688.8 | 8733.8 | 9194.8 | 10633.4 | 12608.6 | 13037.8 | 13563.7 | 13355.8 | 12743.8 | 10267.9 | 6509.6 |
| 70° | 9258.4 | 9287.6 | 10000.2 | 11803.2 | 14234.0 | 14752.0 | 15006.3 | 13696.2 | 12060.2 | 8600.0 | 4893.4 |
| 72.5° | 9503.5 | 9632.0 | 10719.6 | 13031.2 | 16080.7 | 16397.2 | 15491.1 | 12937.1 | 10046.6 | 5842.0 | 2571.3 |
| 73° | 9449.1 | 9602.8 | 10752.7 | 13218.0 | 16225.1 | 16557.5 | 15387.9 | 12546.4 | 9339.2 | 5031.3 | 2204.3 |
| 75° | 8772.2 | 8961.7 | 10322.2 | 13061.7 | 15944.2 | 15745.5 | 13726.6 | 10693.1 | 6310.9 | 2287.8 | 1004.2 |
| 77.5° | 6921.6 | 6975.9 | 8178.7 | 10547.3 | 12555.6 | 12187.4 | 10273.2 | 6683.2 | 2577.9 | 850.5 | 569.6 |
| 80° | 3472.1 | 3672.1 | 4610.0 | 6042.0 | 8396.0 | 8275.4 | 6484.4 | 3160.7 | 1074.4 | 499.4 | 377.5 |
| 82.5° | 1670.5 | 1812.2 | 2245.4 | 2946.2 | 4639.1 | 4529.2 | 3211.1 | 1727.4 | 682.2 | 291.4 | 222.5 |
| 85° | 1075.6 | 1181.6 | 1429.4 | 1405.5 | 1907.6 | 1821.4 | 1442.7 | 1307.5 | 404.0 | 152.3 | 155.0 |
| 87.5° | 710.1 | 777.6 | 932.6 | 745.8 | 694.2 | 627.9 | 637.2 | 736.5 | 79.5 | 58.3 | 21.2 |
| 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° | 4121.2 | 4121.2 | 4121.2 | 4121.2 | 4121.2 | 4121.2 | 4121.2 | 4121.2 | 4121.2 | 4121.2 | 4121.2 |
| 2.5° | 4076.2 | 4058.9 | 4002.0 | 3946.3 | 3893.3 | 3842.9 | 3809.9 | 3766.2 | 3737.0 | 3745.0 | 3756.9 |
| 5° | 3974.1 | 3935.7 | 3835.0 | 3737.0 | 3644.3 | 3534.3 | 3445.6 | 3374.0 | 3319.8 | 3299.8 | 3295.9 |
| 7.5° | 3866.8 | 3801.9 | 3657.5 | 3489.3 | 3331.6 | 3195.2 | 3037.5 | 2959.4 | 2868.0 | 2836.2 | 2825.6 |
| 10° | 3801.9 | 3714.5 | 3511.8 | 3277.3 | 3040.2 | 2813.6 | 2642.8 | 2503.7 | 2377.8 | 2354.0 | 2342.1 |
| 12.5° | 3783.4 | 3668.1 | 3395.2 | 3093.2 | 2777.9 | 2499.7 | 2246.7 | 2063.9 | 1942.0 | 1914.2 | 1873.2 |
| 15° | 3772.8 | 3629.7 | 3286.6 | 2907.8 | 2507.7 | 2168.5 | 1902.3 | 1689.0 | 1577.7 | 1503.5 | 1504.9 |
| 17.5° | 3763.5 | 3586.0 | 3164.8 | 2705.1 | 2274.6 | 1883.8 | 1589.7 | 1397.6 | 1295.6 | 1255.9 | 1251.8 |
| 20° | 3750.3 | 3534.3 | 3024.3 | 2491.8 | 2008.2 | 1624.1 | 1357.8 | 1214.7 | 1145.9 | 1112.7 | 1111.5 |
| 22.5° | 3745.0 | 3484.0 | 2886.6 | 2274.6 | 1772.5 | 1424.1 | 1204.1 | 1103.5 | 1059.7 | 1037.3 | 1037.3 |
| 25° | 3758.2 | 3448.2 | 2742.2 | 2067.9 | 1563.2 | 1253.2 | 1098.2 | 1029.3 | 1004.2 | 992.2 | 988.3 |
| 27.5° | 3799.3 | 3432.3 | 2599.1 | 1861.2 | 1371.1 | 1136.6 | 1026.7 | 978.9 | 960.4 | 951.2 | 952.4 |
| 30° | 3877.4 | 3431.0 | 2458.7 | 1657.2 | 1228.0 | 1047.9 | 969.7 | 936.5 | 922.0 | 916.7 | 915.3 |
| 32.5° | 4003.2 | 3460.1 | 2320.9 | 1489.0 | 1107.4 | 973.6 | 916.7 | 892.9 | 886.2 | 882.3 | 880.9 |
| 35° | 4216.5 | 3542.3 | 2184.4 | 1335.3 | 1014.8 | 907.4 | 866.4 | 854.5 | 845.2 | 849.2 | 850.5 |
| 37.5° | 4504.0 | 3684.0 | 2054.6 | 1214.7 | 944.5 | 858.4 | 824.0 | 813.3 | 808.0 | 812.1 | 816.0 |
| 40° | 4889.5 | 3888.0 | 1946.0 | 1118.0 | 894.2 | 817.4 | 786.8 | 777.6 | 772.3 | 778.9 | 780.3 |
| 42.5° | 5314.7 | 4123.8 | 1855.9 | 1042.6 | 853.1 | 782.9 | 753.8 | 743.2 | 739.2 | 743.2 | 744.5 |
| 45° | 5751.9 | 4398.0 | 1809.6 | 988.3 | 818.6 | 757.7 | 727.3 | 715.4 | 706.1 | 703.4 | 707.4 |
| 47.5° | 6182.4 | 4636.5 | 1808.2 | 955.1 | 790.9 | 735.2 | 702.1 | 688.9 | 676.9 | 670.3 | 669.0 |
| 50° | 6533.5 | 4825.9 | 1840.0 | 940.6 | 767.0 | 710.1 | 676.9 | 663.7 | 647.8 | 634.5 | 637.2 |
| 52.5° | 6798.4 | 4949.1 | 1854.6 | 933.9 | 753.8 | 683.6 | 650.4 | 638.5 | 620.0 | 602.7 | 602.7 |
| 55° | 6969.3 | 4978.3 | 1818.8 | 927.3 | 743.2 | 655.7 | 620.0 | 609.4 | 590.8 | 573.6 | 573.6 |
| 57.5° | 7027.6 | 4888.1 | 1690.3 | 911.4 | 732.6 | 631.9 | 589.5 | 580.2 | 565.7 | 548.4 | 545.8 |
| 60° | 6892.5 | 4583.5 | 1465.1 | 863.7 | 711.4 | 606.7 | 556.4 | 552.4 | 547.1 | 532.5 | 531.2 |
| 62.5° | 6371.8 | 3937.1 | 1220.0 | 801.5 | 675.6 | 580.2 | 525.9 | 532.5 | 536.5 | 528.6 | 527.2 |
| 65° | 5505.5 | 3196.6 | 1042.6 | 715.4 | 627.9 | 543.1 | 492.8 | 510.0 | 520.6 | 520.6 | 518.0 |
| 67.5° | 4465.6 | 2454.7 | 878.3 | 641.2 | 568.3 | 492.8 | 455.7 | 468.9 | 476.9 | 474.2 | 480.9 |
| 70° | 3174.0 | 1662.5 | 715.4 | 556.4 | 492.8 | 435.8 | 408.0 | 408.0 | 402.7 | 400.1 | 400.1 |
| 72.5° | 1539.3 | 949.8 | 580.2 | 465.0 | 419.9 | 372.2 | 349.7 | 340.4 | 329.8 | 328.5 | 321.9 |
| 73° | 1286.3 | 851.8 | 553.7 | 447.7 | 402.7 | 363.0 | 337.8 | 323.2 | 316.6 | 311.3 | 310.0 |
| 75° | 782.9 | 646.5 | 462.3 | 377.5 | 343.1 | 312.6 | 290.1 | 276.9 | 270.2 | 266.3 | 264.9 |
| 77.5° | 515.3 | 482.2 | 359.0 | 288.8 | 262.3 | 243.7 | 234.5 | 221.3 | 217.2 | 211.9 | 211.9 |
| 80° | 384.2 | 368.3 | 257.0 | 204.0 | 188.1 | 172.2 | 169.5 | 166.9 | 156.3 | 149.7 | 147.0 |
| 82.5° | 247.8 | 262.3 | 174.8 | 136.4 | 119.3 | 106.0 | 107.3 | 111.3 | 100.7 | 91.4 | 88.7 |
| 85° | 176.2 | 189.4 | 106.0 | 62.2 | 50.4 | 43.7 | 49.0 | 43.7 | 45.1 | 35.7 | 29.2 |
| 87.5° | 29.2 | 50.4 | 18.6 | 8.0 | 4.0 | 2.7 | 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)