

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: P454548

Luminaire Tested: **GLAN-SA5C-830-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5C-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23143 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

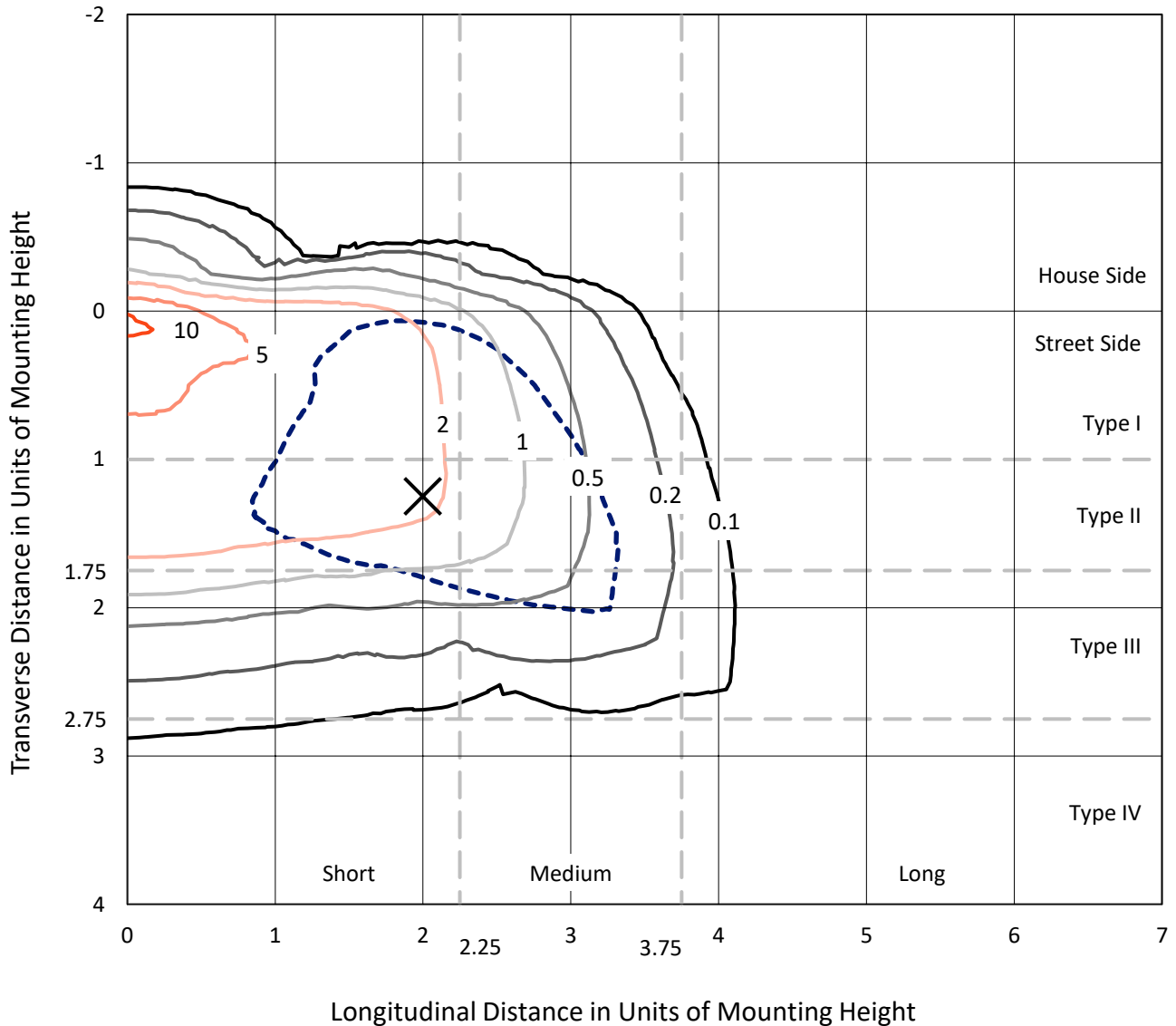
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

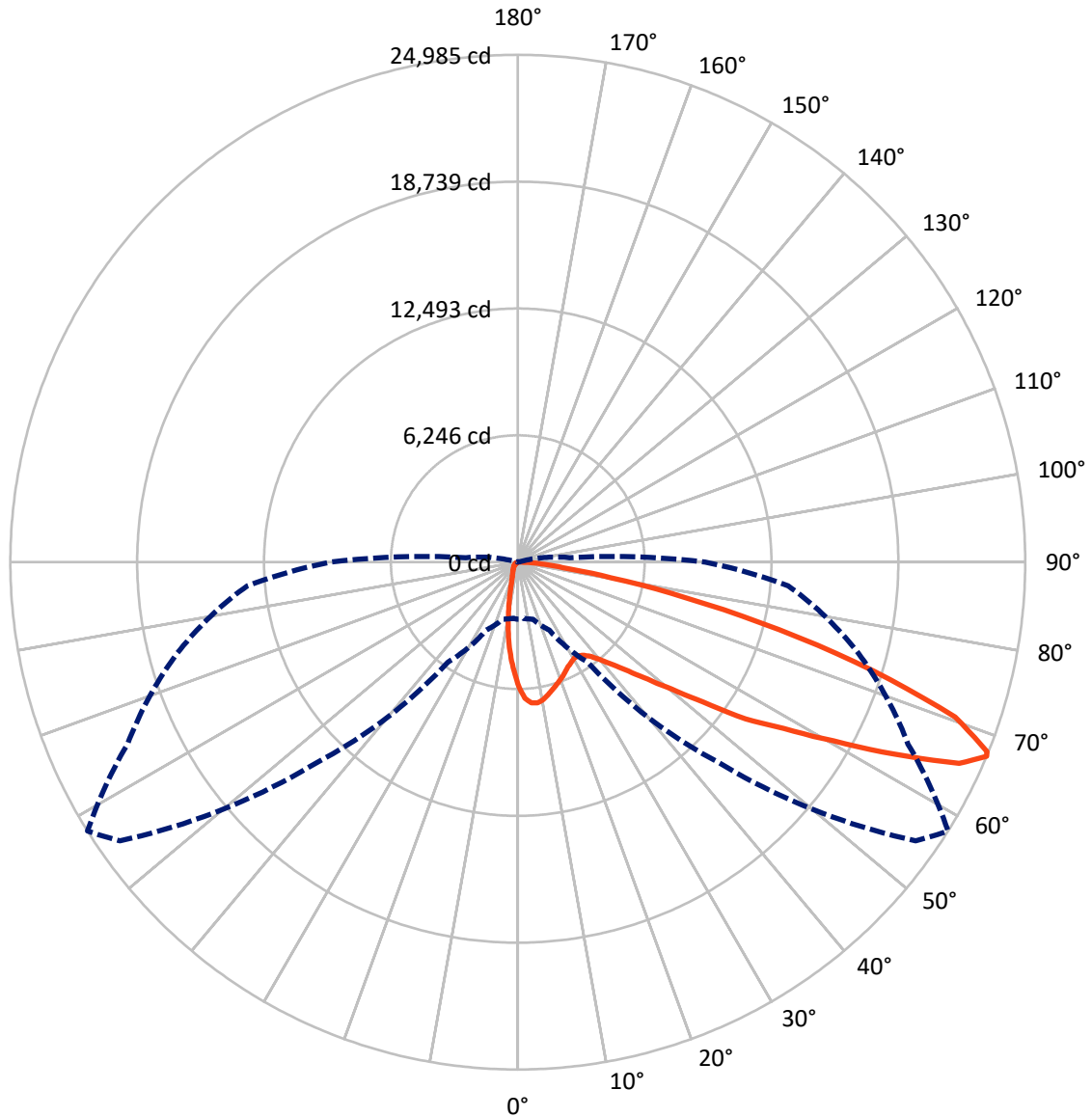
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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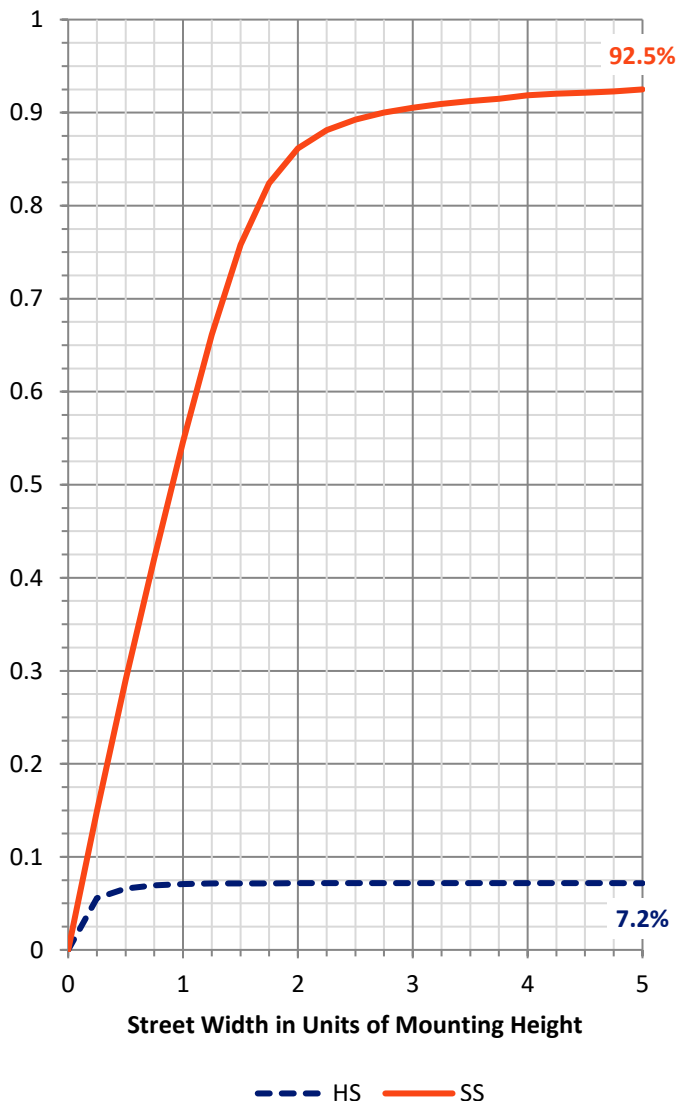
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1670.1 | 0.0 | 1670.1 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 21472.9 | 0.0 | 21472.9 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 23143.0 | 0.0 | 23143.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 497.8 | 2.2 |
| 10°-20° | 1075.2 | 4.6 |
| 20°-30° | 1457.0 | 6.3 |
| 30°-40° | 2020.8 | 8.7 |
| 40°-50° | 3222.9 | 13.9 |
| 50°-60° | 5571.0 | 24.1 |
| 60°-70° | 6363.8 | 27.5 |
| 70°-80° | 2653.1 | 11.5 |
| 80°-90° | 281.3 | 1.2 |
| 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° | 23143.0 | 100.0 |
| 0°-180° | 23143.0 | 100.0 |

Coefficient of Utilization



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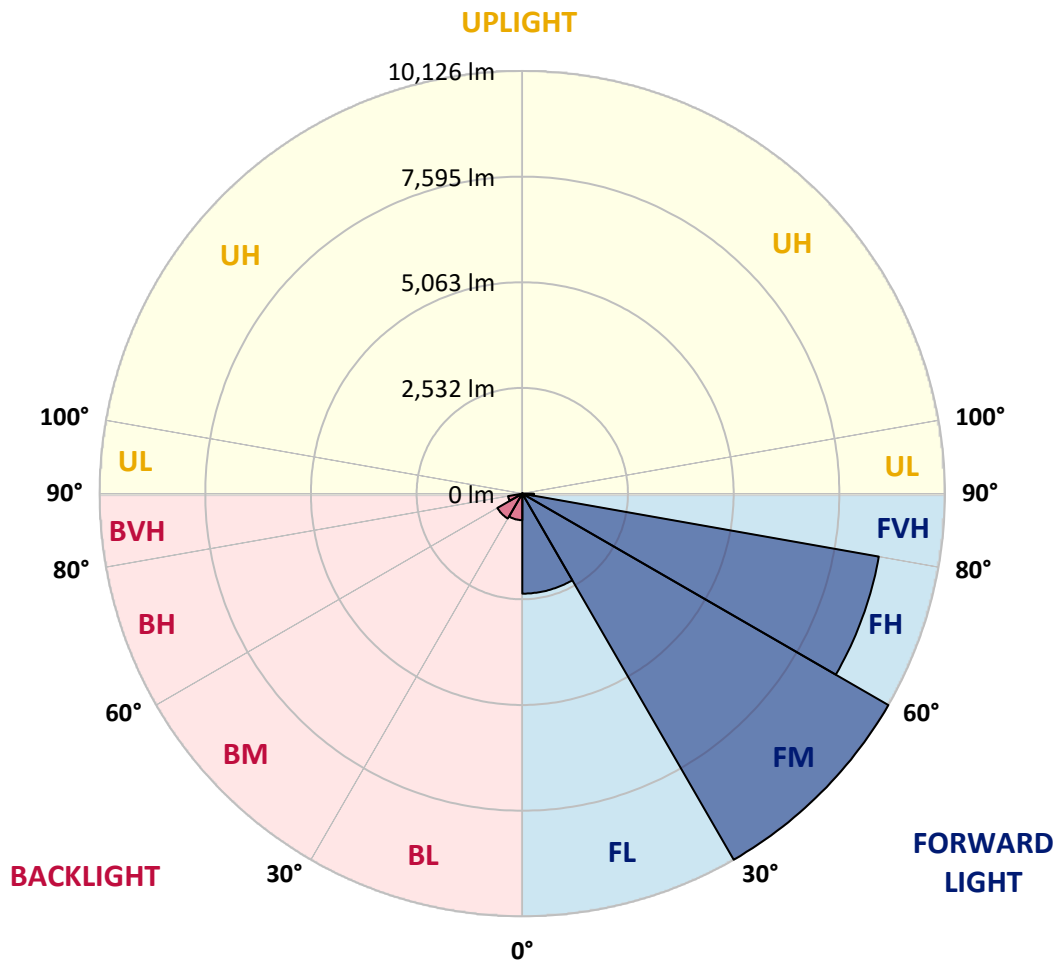
CATALOG NUMBER: GLAN-SA5C-830-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2395.9 | 10.4 | | | |
| FM (30°-60°) | 10126.0 | 43.8 | | | |
| FH (60°-80°) | 8671.7 | 37.5 | | | G4/12000 |
| FVH (80°-90°) | 279.3 | 1.2 | | | G3/500 |
| BL (0°-30°) | 634.2 | 2.7 | B2/1000 | | |
| BM (30°-60°) | 688.6 | 3.0 | B1/1000 | | |
| BH (60°-80°) | 345.3 | 1.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.0 | 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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6135.0 | 6135.0 | 6135.0 | 6135.0 | 6135.0 | 6135.0 | 6135.0 | 6135.0 | 6135.0 | 6135.0 | 6135.0 |
| 2.5° | 7120.1 | 7130.9 | 7090.7 | 7058.3 | 6974.8 | 6885.1 | 6766.0 | 6702.6 | 6594.3 | 6407.2 | 6200.0 |
| 5° | 7287.1 | 7301.1 | 7294.9 | 7287.1 | 7254.7 | 7168.1 | 7016.5 | 6960.8 | 6801.5 | 6496.9 | 6122.6 |
| 7.5° | 6916.0 | 6967.0 | 6973.2 | 7033.5 | 7090.7 | 7098.5 | 7041.3 | 6999.5 | 6852.6 | 6495.3 | 5985.0 |
| 10° | 6424.2 | 6458.2 | 6507.7 | 6577.3 | 6714.9 | 6829.4 | 6885.1 | 6878.9 | 6793.8 | 6447.4 | 5824.1 |
| 12.5° | 5927.8 | 5946.3 | 6022.1 | 6141.2 | 6309.8 | 6504.6 | 6653.1 | 6682.5 | 6684.0 | 6390.2 | 5689.6 |
| 15° | 5500.9 | 5493.2 | 5552.0 | 5689.6 | 5926.2 | 6170.6 | 6436.6 | 6483.0 | 6557.2 | 6334.5 | 5564.3 |
| 17.5° | 5136.0 | 5176.2 | 5185.4 | 5337.0 | 5555.1 | 5872.1 | 6210.8 | 6292.7 | 6441.2 | 6286.6 | 5460.7 |
| 20° | 4910.2 | 4931.8 | 4951.9 | 5037.0 | 5233.4 | 5567.4 | 5998.9 | 6111.8 | 6332.9 | 6243.3 | 5344.7 |
| 22.5° | 4843.7 | 4857.6 | 4840.6 | 4866.9 | 5006.0 | 5303.0 | 5768.5 | 5918.5 | 6229.3 | 6203.0 | 5250.4 |
| 25° | 4894.7 | 4908.6 | 4868.4 | 4837.5 | 4885.4 | 5088.0 | 5545.8 | 5728.3 | 6145.8 | 6195.3 | 5179.3 |
| 27.5° | 5018.4 | 5044.7 | 4989.0 | 4933.4 | 4905.5 | 4972.0 | 5371.0 | 5582.9 | 6088.6 | 6232.4 | 5146.8 |
| 30° | 5211.7 | 5227.2 | 5185.4 | 5117.4 | 5054.0 | 4987.5 | 5279.8 | 5482.4 | 6073.1 | 6319.0 | 5143.7 |
| 32.5° | 5422.1 | 5454.5 | 5431.3 | 5386.5 | 5304.5 | 5146.8 | 5306.1 | 5485.5 | 6110.3 | 6444.3 | 5182.3 |
| 35° | 5681.9 | 5719.0 | 5740.6 | 5731.4 | 5626.2 | 5429.8 | 5473.1 | 5624.6 | 6209.2 | 6674.7 | 5287.5 |
| 37.5° | 5937.0 | 5969.5 | 6091.7 | 6133.5 | 6040.7 | 5855.1 | 5797.9 | 5898.4 | 6427.3 | 6976.3 | 5477.7 |
| 40° | 6229.3 | 6272.6 | 6444.3 | 6603.6 | 6558.7 | 6363.9 | 6258.7 | 6342.2 | 6761.3 | 7431.0 | 5838.1 |
| 42.5° | 6509.3 | 6586.6 | 6847.9 | 7129.4 | 7171.2 | 6953.1 | 6883.5 | 6911.3 | 7256.2 | 8085.1 | 6340.7 |
| 45° | 6906.7 | 6979.4 | 7316.5 | 7698.5 | 7894.9 | 7724.8 | 7653.7 | 7649.0 | 7935.1 | 9005.3 | 7155.7 |
| 47.5° | 7480.5 | 7545.4 | 7942.9 | 8320.2 | 8669.7 | 8692.9 | 8558.4 | 8604.8 | 8788.8 | 10081.7 | 8154.7 |
| 50° | 8184.1 | 8337.2 | 8598.6 | 8991.4 | 9458.4 | 9835.8 | 9877.5 | 9815.7 | 9973.4 | 11328.2 | 9354.8 |
| 52.5° | 9206.4 | 9265.1 | 9504.8 | 9828.1 | 10375.5 | 11015.8 | 11512.2 | 11427.1 | 11377.7 | 12515.9 | 10567.3 |
| 55° | 9968.8 | 10047.7 | 10420.4 | 10864.2 | 11666.9 | 12511.2 | 13587.6 | 13617.0 | 12992.2 | 13657.2 | 11753.5 |
| 57.5° | 9738.4 | 9859.0 | 10423.5 | 11315.8 | 13080.4 | 14623.8 | 15424.9 | 15445.0 | 14486.1 | 14766.1 | 13092.7 |
| 60° | 8555.3 | 8612.5 | 9421.3 | 10612.1 | 13201.0 | 16912.6 | 18030.7 | 17868.4 | 16006.4 | 16006.4 | 14275.8 |
| 62.5° | 6067.0 | 6156.6 | 6812.4 | 8564.6 | 11922.0 | 17707.5 | 21151.6 | 20816.0 | 18100.3 | 17192.5 | 14981.0 |
| 65° | 3877.1 | 3790.5 | 4225.1 | 5406.6 | 8881.6 | 16533.7 | 23868.8 | 23888.9 | 20070.6 | 17667.3 | 14595.9 |
| 67° | 2808.5 | 2774.4 | 2899.7 | 3696.2 | 6022.1 | 13898.5 | 23926.0 | 24985.4 | 21202.6 | 17367.3 | 13364.9 |
| 67.5° | 2568.7 | 2595.0 | 2686.3 | 3334.3 | 5471.5 | 12647.3 | 23666.2 | 24920.4 | 21457.8 | 17186.3 | 12919.5 |
| 70° | 1947.1 | 1902.2 | 2001.2 | 2358.4 | 3280.1 | 7978.4 | 20358.2 | 22855.8 | 21140.8 | 15390.8 | 10322.9 |
| 72.5° | 1432.1 | 1427.4 | 1565.1 | 1928.5 | 2525.4 | 4249.8 | 15282.6 | 18326.1 | 17271.4 | 11719.4 | 6500.0 |
| 75° | 966.6 | 1009.9 | 1229.5 | 1611.5 | 2288.8 | 2755.9 | 10418.8 | 13295.3 | 11990.1 | 6654.6 | 2656.9 |
| 77.5° | 550.6 | 553.6 | 791.8 | 1294.4 | 2055.3 | 2217.7 | 6173.7 | 8470.2 | 6346.9 | 2213.1 | 788.7 |
| 80° | 238.2 | 261.4 | 392.8 | 940.3 | 1704.3 | 1964.1 | 3540.0 | 4655.0 | 2567.2 | 468.6 | 255.2 |
| 82.5° | 88.2 | 103.6 | 173.2 | 578.4 | 1243.4 | 1617.6 | 2138.8 | 2222.3 | 870.7 | 165.5 | 159.3 |
| 85° | 0.0 | 3.1 | 63.4 | 270.6 | 648.0 | 722.2 | 1429.0 | 1317.6 | 385.1 | 78.9 | 103.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 27.8 | 85.1 | 269.1 | 443.8 | 494.9 | 92.8 | 27.8 | 24.7 |
| 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° | 6135.0 | 6135.0 | 6135.0 | 6135.0 | 6135.0 | 6135.0 | 6135.0 | 6135.0 | 6135.0 | 6135.0 | 6135.0 |
| 2.5° | 6088.6 | 5988.1 | 5736.0 | 5483.9 | 5296.8 | 5140.6 | 4905.5 | 4777.2 | 4709.1 | 4608.6 | 4614.8 |
| 5° | 5935.5 | 5731.4 | 5287.5 | 4828.2 | 4457.0 | 4095.2 | 3662.1 | 3487.4 | 3340.5 | 3256.9 | 3201.3 |
| 7.5° | 5708.2 | 5406.6 | 4749.3 | 4136.9 | 3566.2 | 2933.7 | 2458.9 | 2141.9 | 1928.5 | 1849.6 | 1773.8 |
| 10° | 5459.2 | 5058.6 | 4203.4 | 3354.4 | 2562.6 | 1909.9 | 1507.8 | 1217.1 | 1113.5 | 1017.6 | 1026.9 |
| 12.5° | 5228.7 | 4741.6 | 3702.3 | 2647.6 | 1795.5 | 1214.0 | 946.5 | 827.4 | 793.4 | 782.5 | 782.5 |
| 15° | 5040.1 | 4438.5 | 3164.2 | 1990.4 | 1231.0 | 872.2 | 757.8 | 725.3 | 712.9 | 709.8 | 709.8 |
| 17.5° | 4839.0 | 4150.8 | 2678.6 | 1470.7 | 895.4 | 730.0 | 691.3 | 669.6 | 665.0 | 661.9 | 661.9 |
| 20° | 4659.6 | 3861.6 | 2217.7 | 1094.9 | 723.8 | 657.3 | 632.5 | 618.6 | 614.0 | 610.9 | 612.4 |
| 22.5° | 4489.5 | 3604.9 | 1784.7 | 827.4 | 637.2 | 598.5 | 573.8 | 559.8 | 550.6 | 542.8 | 544.4 |
| 25° | 4338.0 | 3357.5 | 1435.2 | 677.4 | 573.8 | 539.7 | 515.0 | 494.9 | 474.8 | 465.5 | 464.0 |
| 27.5° | 4231.2 | 3141.0 | 1118.1 | 579.9 | 516.5 | 479.4 | 448.5 | 423.7 | 397.5 | 383.5 | 380.4 |
| 30° | 4143.1 | 2921.4 | 884.6 | 511.9 | 459.3 | 423.7 | 385.1 | 349.5 | 321.7 | 307.8 | 301.6 |
| 32.5° | 4085.9 | 2712.6 | 697.5 | 456.2 | 411.4 | 368.1 | 324.8 | 289.2 | 258.3 | 244.3 | 241.3 |
| 35° | 4076.6 | 2537.8 | 570.7 | 409.8 | 368.1 | 321.7 | 276.8 | 238.2 | 211.9 | 198.0 | 194.9 |
| 37.5° | 4143.1 | 2403.3 | 477.9 | 372.7 | 332.5 | 281.5 | 232.0 | 196.4 | 173.2 | 162.4 | 160.8 |
| 40° | 4320.9 | 2318.2 | 414.5 | 341.8 | 300.0 | 244.3 | 198.0 | 167.0 | 143.8 | 133.0 | 133.0 |
| 42.5° | 4659.6 | 2321.3 | 372.7 | 312.4 | 267.5 | 208.8 | 168.6 | 139.2 | 119.1 | 109.8 | 106.7 |
| 45° | 5188.5 | 2426.5 | 337.1 | 283.0 | 236.6 | 180.9 | 143.8 | 114.4 | 94.3 | 86.6 | 86.6 |
| 47.5° | 5896.8 | 2635.2 | 306.2 | 253.6 | 208.8 | 154.7 | 122.2 | 92.8 | 75.8 | 68.0 | 68.0 |
| 50° | 6823.2 | 2970.8 | 279.9 | 228.9 | 185.6 | 133.0 | 99.0 | 75.8 | 58.8 | 52.6 | 51.0 |
| 52.5° | 7791.3 | 3385.3 | 249.0 | 207.2 | 159.3 | 112.9 | 80.4 | 58.8 | 44.8 | 40.2 | 38.7 |
| 55° | 8859.9 | 3790.5 | 219.6 | 185.6 | 129.9 | 94.3 | 63.4 | 46.4 | 32.5 | 27.8 | 27.8 |
| 57.5° | 9937.9 | 4187.9 | 184.0 | 154.7 | 102.1 | 69.6 | 49.5 | 34.0 | 21.7 | 17.0 | 17.0 |
| 60° | 10850.3 | 4316.3 | 156.2 | 125.3 | 77.3 | 49.5 | 35.6 | 21.7 | 12.4 | 7.7 | 7.7 |
| 62.5° | 10975.6 | 3883.3 | 131.5 | 95.9 | 55.7 | 34.0 | 18.6 | 12.4 | 4.6 | 3.1 | 3.1 |
| 65° | 10295.1 | 3154.9 | 109.8 | 72.7 | 37.1 | 17.0 | 7.7 | 4.6 | 1.5 | 0.0 | 0.0 |
| 67° | 9224.9 | 2557.9 | 89.7 | 54.1 | 26.3 | 10.8 | 4.6 | 1.5 | 0.0 | 0.0 | 0.0 |
| 67.5° | 8951.2 | 2438.8 | 86.6 | 51.0 | 23.2 | 9.3 | 3.1 | 1.5 | 0.0 | 0.0 | 0.0 |
| 70° | 7024.2 | 1826.4 | 61.9 | 30.9 | 13.9 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 4365.8 | 1033.1 | 44.8 | 18.6 | 9.3 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1650.1 | 361.9 | 30.9 | 12.4 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 513.4 | 137.6 | 18.6 | 9.3 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 173.2 | 52.6 | 12.4 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 106.7 | 21.7 | 7.7 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 66.5 | 9.3 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 12.4 | 3.1 | 1.5 | 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)