

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: P456754

Luminaire Tested: **GLAN-SA8A-740-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8A-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30376 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

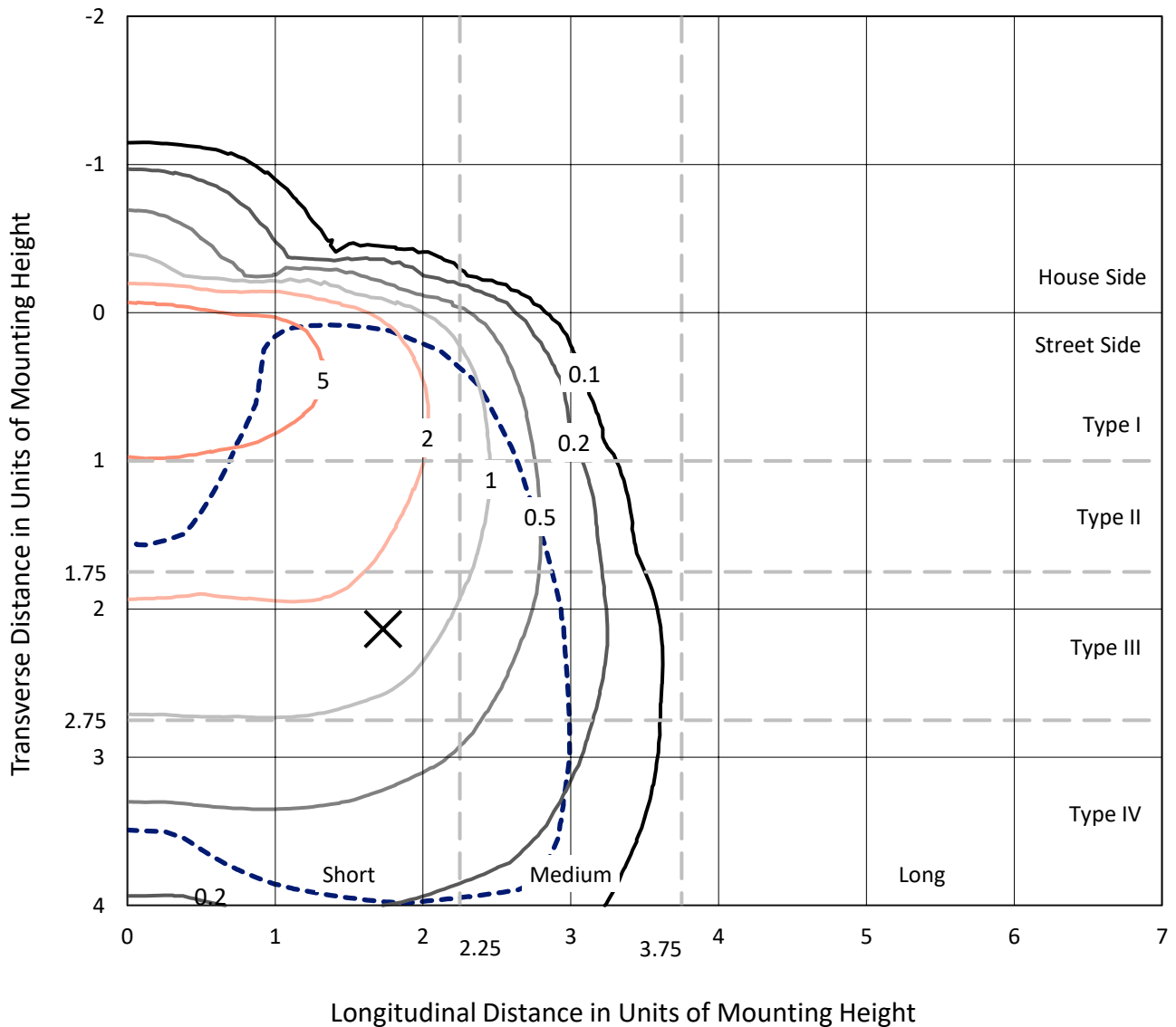
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

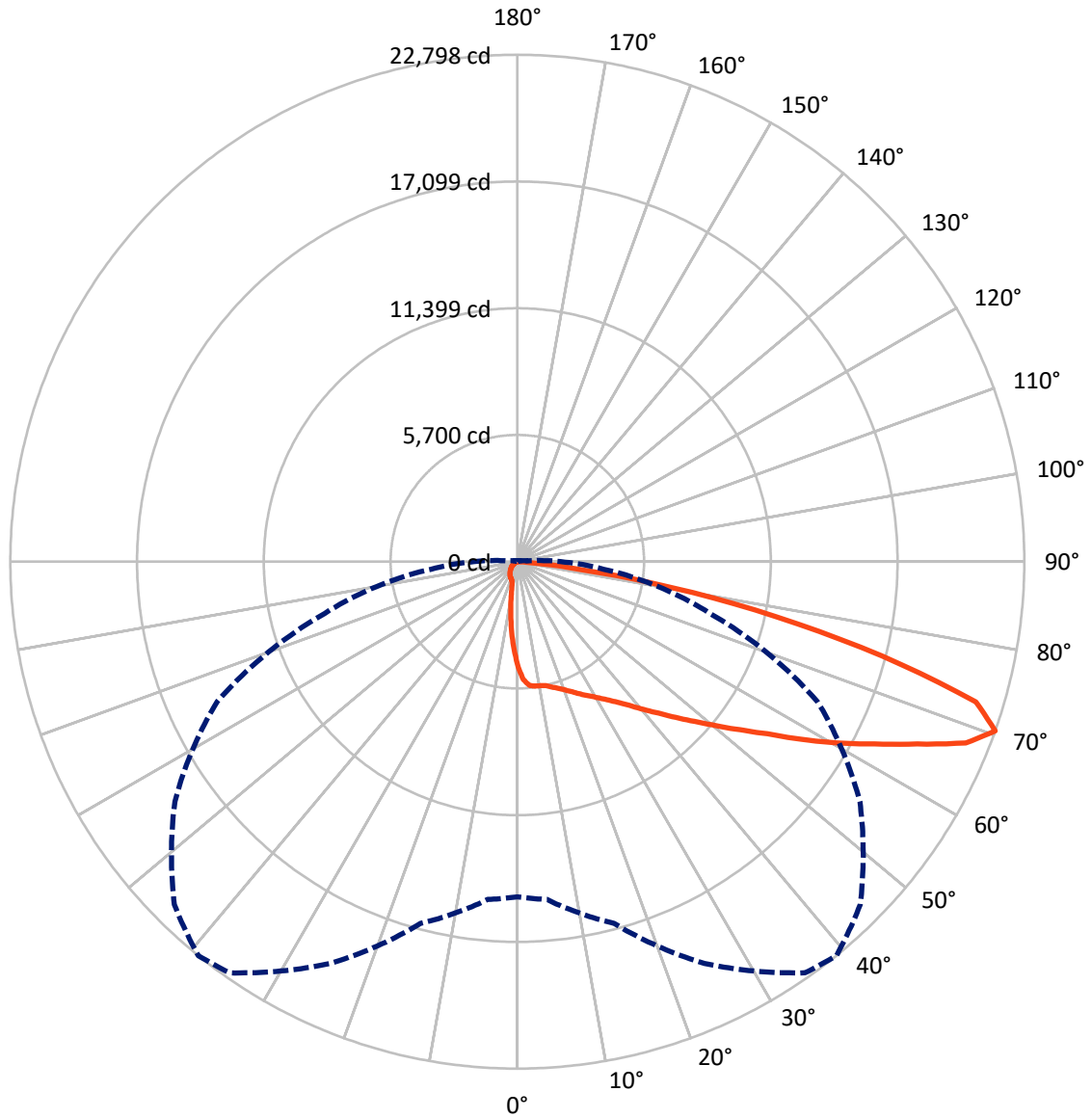
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1980.7 | 0.0 | 1980.7 |
| | % Fixture | 6.5 | 0.0 | 6.5 |
| Street Side | Lumens | 28395.3 | 0.0 | 28395.3 |
| | % Fixture | 93.5 | 0.0 | 93.5 |
| Total | Lumens | 30376.0 | 0.0 | 30376.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 404.3 | 1.3 |
| 10°-20° | 1050.6 | 3.5 |
| 20°-30° | 1760.0 | 5.8 |
| 30°-40° | 2729.5 | 9.0 |
| 40°-50° | 4325.5 | 14.2 |
| 50°-60° | 6340.5 | 20.9 |
| 60°-70° | 8127.0 | 26.8 |
| 70°-80° | 5106.7 | 16.8 |
| 80°-90° | 532.0 | 1.8 |
| 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° | 30376.0 | 100.0 |
| 0°-180° | 30376.0 | 100.0 |

Coefficient of Utilization



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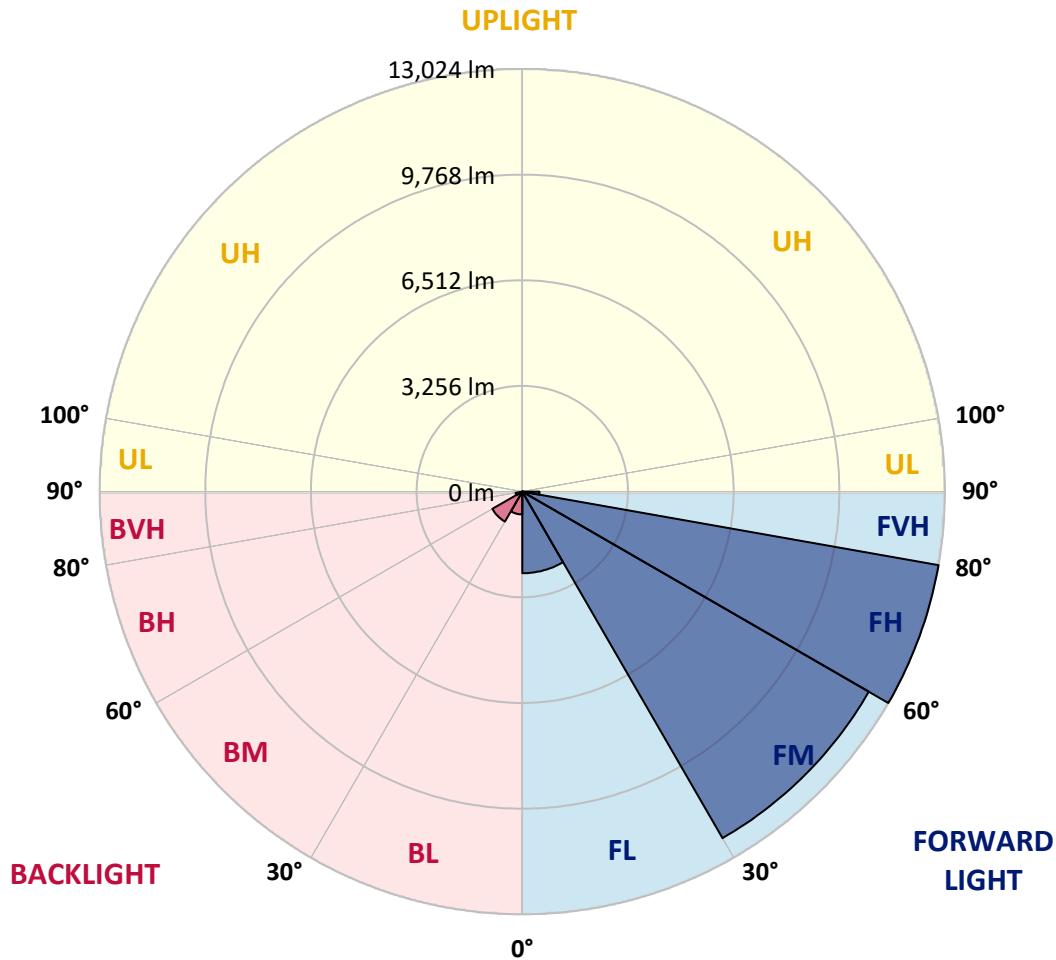
CATALOG NUMBER: GLAN-SA8A-740-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2513.5 | 8.3 | | | |
| FM (30°-60°) | 12329.6 | 40.6 | | | |
| FH (60°-80°) | 13024.2 | 42.9 | | | G5 |
| FVH (80°-90°) | 528.1 | 1.7 | | | G4/750 |
| BL (0°-30°) | 701.3 | 2.3 | B2/1000 | | |
| BM (30°-60°) | 1065.9 | 3.5 | B2/2500 | | |
| BH (60°-80°) | 209.5 | 0.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.9 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4739.7 | 4739.7 | 4739.7 | 4739.7 | 4739.7 | 4739.7 | 4739.7 | 4739.7 | 4739.7 | 4739.7 | 4739.7 |
| 2.5° | 5476.6 | 5458.2 | 5433.7 | 5405.1 | 5323.5 | 5309.2 | 5260.2 | 5156.1 | 5031.6 | 4929.5 | 4788.7 |
| 5° | 5735.8 | 5746.0 | 5727.6 | 5676.6 | 5617.4 | 5582.7 | 5521.5 | 5360.2 | 5199.0 | 4992.8 | 4762.2 |
| 7.5° | 5795.0 | 5815.4 | 5793.0 | 5744.0 | 5686.8 | 5650.1 | 5601.1 | 5462.3 | 5274.5 | 5039.8 | 4723.4 |
| 10° | 5788.9 | 5813.4 | 5799.1 | 5754.2 | 5707.2 | 5672.5 | 5619.5 | 5509.2 | 5358.2 | 5111.2 | 4735.6 |
| 12.5° | 5778.7 | 5811.3 | 5809.3 | 5786.8 | 5748.1 | 5721.5 | 5688.9 | 5590.9 | 5450.0 | 5215.3 | 4803.0 |
| 15° | 5750.1 | 5790.9 | 5827.7 | 5846.0 | 5848.1 | 5848.1 | 5807.3 | 5703.2 | 5568.4 | 5352.1 | 4890.7 |
| 17.5° | 5762.3 | 5809.3 | 5901.1 | 5954.2 | 5991.0 | 5986.9 | 5944.0 | 5831.7 | 5682.7 | 5492.9 | 4982.6 |
| 20° | 5837.9 | 5901.1 | 6029.7 | 6135.9 | 6172.6 | 6160.4 | 6103.2 | 5972.6 | 5803.2 | 5613.3 | 5072.4 |
| 22.5° | 6023.6 | 6080.8 | 6242.0 | 6366.5 | 6393.1 | 6360.4 | 6278.8 | 6101.2 | 5948.1 | 5744.0 | 5180.6 |
| 25° | 6301.2 | 6368.6 | 6517.6 | 6611.5 | 6611.5 | 6593.1 | 6478.8 | 6270.6 | 6111.4 | 5925.6 | 5321.4 |
| 27.5° | 6638.0 | 6695.2 | 6842.1 | 6925.8 | 6876.8 | 6823.8 | 6709.5 | 6458.4 | 6305.3 | 6154.3 | 5490.9 |
| 30° | 6978.9 | 7015.7 | 7170.8 | 7207.5 | 7156.5 | 7089.1 | 6966.7 | 6715.6 | 6580.9 | 6464.5 | 5735.8 |
| 32.5° | 7301.4 | 7381.0 | 7509.6 | 7501.5 | 7432.1 | 7399.4 | 7287.1 | 7019.7 | 6944.2 | 6932.0 | 6078.7 |
| 35° | 7623.9 | 7685.2 | 7799.5 | 7828.1 | 7766.8 | 7760.7 | 7679.0 | 7481.0 | 7483.1 | 7562.7 | 6613.5 |
| 37.5° | 7901.5 | 7956.7 | 8091.4 | 8154.6 | 8166.9 | 8197.5 | 8164.9 | 8034.2 | 8220.0 | 8438.4 | 7321.8 |
| 40° | 8134.2 | 8211.8 | 8383.3 | 8493.5 | 8620.0 | 8732.3 | 8738.4 | 8767.0 | 9140.6 | 9516.1 | 8246.5 |
| 42.5° | 8315.9 | 8424.1 | 8673.1 | 8877.2 | 9167.1 | 9310.0 | 9424.3 | 9581.5 | 10210.2 | 10771.5 | 9336.5 |
| 45° | 8552.7 | 8677.2 | 8987.5 | 9307.9 | 9761.1 | 9995.8 | 10155.0 | 10575.5 | 11467.5 | 12233.0 | 10455.1 |
| 47.5° | 8944.6 | 9009.9 | 9326.3 | 9793.7 | 10389.8 | 10724.5 | 11034.8 | 11671.7 | 12816.8 | 13502.6 | 11385.9 |
| 50° | 9448.8 | 9491.6 | 9730.5 | 10379.6 | 11151.1 | 11592.1 | 12157.5 | 12906.6 | 14217.1 | 14555.9 | 11912.5 |
| 52.5° | 10006.0 | 10020.3 | 10199.9 | 11024.6 | 12004.4 | 12559.6 | 13192.4 | 14117.0 | 15358.1 | 15307.1 | 12261.6 |
| 55° | 10653.1 | 10632.7 | 10785.8 | 11724.7 | 13014.8 | 13649.6 | 14386.5 | 15356.0 | 16348.1 | 15839.8 | 12461.6 |
| 57.5° | 11394.1 | 11338.9 | 11487.9 | 12653.5 | 14308.9 | 15068.2 | 15817.4 | 16425.6 | 17115.6 | 16286.8 | 12557.5 |
| 60° | 12169.7 | 12059.5 | 12237.1 | 13696.5 | 15833.7 | 16554.2 | 17176.8 | 17340.1 | 17923.9 | 16642.0 | 12392.2 |
| 62.5° | 12788.2 | 12790.2 | 13120.9 | 14807.0 | 17401.3 | 18032.1 | 18362.8 | 18509.7 | 18620.0 | 16564.4 | 11522.7 |
| 65° | 13753.7 | 13786.4 | 14315.0 | 16348.1 | 19216.0 | 19763.0 | 19989.6 | 19512.0 | 18650.6 | 15601.0 | 10216.3 |
| 67.5° | 14749.8 | 14853.9 | 15821.4 | 18470.9 | 21312.3 | 21753.2 | 21461.3 | 19705.9 | 17817.8 | 13402.6 | 7746.4 |
| 70° | 15074.4 | 15245.8 | 16840.0 | 19932.5 | 22569.7 | 22798.3 | 21810.4 | 18801.6 | 14894.7 | 8960.9 | 3898.7 |
| 72.5° | 13812.9 | 14090.5 | 16254.2 | 19399.7 | 21767.5 | 21569.5 | 19514.0 | 15768.4 | 9469.2 | 3402.7 | 1190.0 |
| 75° | 9740.7 | 9863.1 | 13508.8 | 16092.9 | 17507.5 | 16946.2 | 14843.7 | 10165.2 | 3894.6 | 955.3 | 408.2 |
| 77.5° | 5029.6 | 4970.4 | 8034.2 | 10677.6 | 12486.1 | 11904.4 | 9720.3 | 5262.2 | 1475.8 | 398.0 | 253.1 |
| 80° | 2600.5 | 2643.4 | 3476.2 | 5595.0 | 7621.9 | 7013.6 | 5182.6 | 2439.3 | 785.9 | 220.5 | 193.9 |
| 82.5° | 1457.4 | 1367.6 | 1998.3 | 2443.3 | 3564.0 | 2794.4 | 1988.1 | 1726.9 | 342.9 | 132.7 | 183.7 |
| 85° | 265.4 | 277.6 | 1096.1 | 1320.7 | 1237.0 | 785.9 | 640.9 | 1153.3 | 100.0 | 73.5 | 128.6 |
| 87.5° | 4.1 | 4.1 | 212.3 | 379.7 | 240.9 | 110.2 | 202.1 | 165.3 | 20.4 | 28.6 | 22.5 |
| 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° | 4739.7 | 4739.7 | 4739.7 | 4739.7 | 4739.7 | 4739.7 | 4739.7 | 4739.7 | 4739.7 | 4739.7 | 4739.7 |
| 2.5° | 4717.2 | 4639.7 | 4494.8 | 4351.9 | 4170.2 | 4021.2 | 3921.2 | 3817.1 | 3710.9 | 3719.1 | 3743.6 |
| 5° | 4635.6 | 4500.9 | 4215.1 | 3913.0 | 3623.2 | 3361.9 | 3104.7 | 2874.0 | 2780.1 | 2694.4 | 2698.5 |
| 7.5° | 4553.9 | 4364.1 | 3945.7 | 3472.1 | 3033.2 | 2588.3 | 2265.7 | 2000.4 | 1859.5 | 1753.4 | 1722.8 |
| 10° | 4517.2 | 4266.1 | 3698.7 | 3047.5 | 2425.0 | 1939.2 | 1524.8 | 1308.4 | 1141.0 | 1088.0 | 1102.3 |
| 12.5° | 4533.5 | 4217.1 | 3476.2 | 2663.8 | 1922.8 | 1351.3 | 1061.4 | 951.2 | 914.5 | 908.3 | 904.3 |
| 15° | 4564.2 | 4182.4 | 3257.8 | 2239.2 | 1412.5 | 1004.3 | 892.0 | 871.6 | 867.5 | 863.4 | 865.5 |
| 17.5° | 4605.0 | 4151.8 | 3025.1 | 1841.2 | 1083.9 | 877.7 | 845.1 | 834.9 | 832.8 | 832.8 | 832.8 |
| 20° | 4645.8 | 4117.1 | 2765.8 | 1486.0 | 904.3 | 828.7 | 808.3 | 802.2 | 800.2 | 800.2 | 798.1 |
| 22.5° | 4692.8 | 4086.5 | 2502.5 | 1167.6 | 832.8 | 794.0 | 775.7 | 771.6 | 769.5 | 767.5 | 767.5 |
| 25° | 4760.1 | 4047.7 | 2222.9 | 955.3 | 787.9 | 761.4 | 743.0 | 738.9 | 736.9 | 728.7 | 730.8 |
| 27.5° | 4849.9 | 4019.1 | 1935.1 | 824.7 | 747.1 | 720.5 | 708.3 | 702.2 | 698.1 | 692.0 | 694.0 |
| 30° | 4972.4 | 3994.7 | 1628.9 | 753.2 | 700.1 | 677.7 | 665.4 | 661.4 | 657.3 | 651.1 | 651.1 |
| 32.5° | 5184.7 | 4004.9 | 1306.4 | 696.1 | 657.3 | 630.7 | 618.5 | 614.4 | 610.3 | 604.2 | 604.2 |
| 35° | 5503.1 | 4064.1 | 1045.1 | 647.1 | 606.2 | 579.7 | 567.5 | 567.5 | 561.3 | 553.2 | 551.1 |
| 37.5° | 6023.6 | 4215.1 | 838.9 | 600.1 | 557.3 | 532.8 | 518.5 | 514.4 | 508.3 | 496.0 | 494.0 |
| 40° | 6638.0 | 4449.8 | 706.3 | 553.2 | 512.3 | 487.9 | 475.6 | 463.4 | 447.0 | 434.8 | 432.7 |
| 42.5° | 7409.6 | 4690.7 | 612.4 | 506.2 | 469.5 | 447.0 | 432.7 | 412.3 | 387.8 | 371.5 | 369.5 |
| 45° | 8213.8 | 4911.2 | 549.1 | 463.4 | 428.7 | 410.3 | 394.0 | 361.3 | 330.7 | 310.3 | 308.2 |
| 47.5° | 8814.0 | 4952.0 | 498.1 | 422.5 | 394.0 | 375.6 | 353.1 | 312.3 | 271.5 | 253.1 | 247.0 |
| 50° | 9097.7 | 4754.0 | 445.0 | 381.7 | 359.3 | 338.8 | 310.3 | 263.3 | 218.4 | 196.0 | 191.9 |
| 52.5° | 9197.7 | 4411.1 | 402.1 | 345.0 | 324.6 | 300.1 | 265.4 | 212.3 | 171.5 | 149.0 | 147.0 |
| 55° | 9156.9 | 3978.3 | 363.3 | 310.3 | 283.7 | 255.2 | 220.5 | 169.4 | 126.6 | 108.2 | 104.1 |
| 57.5° | 8942.6 | 3427.2 | 324.6 | 275.6 | 242.9 | 214.3 | 175.5 | 126.6 | 85.7 | 69.4 | 67.4 |
| 60° | 8364.9 | 2676.0 | 285.8 | 236.8 | 206.2 | 175.5 | 138.8 | 89.8 | 53.1 | 38.8 | 38.8 |
| 62.5° | 7389.2 | 1986.1 | 249.0 | 198.0 | 173.5 | 140.8 | 98.0 | 57.2 | 28.6 | 20.4 | 18.4 |
| 65° | 6174.7 | 1465.6 | 208.2 | 167.4 | 144.9 | 110.2 | 69.4 | 34.7 | 14.3 | 6.1 | 4.1 |
| 67.5° | 4309.0 | 904.3 | 173.5 | 136.8 | 118.4 | 79.6 | 42.9 | 14.3 | 6.1 | 0.0 | 0.0 |
| 70° | 1957.5 | 430.7 | 132.7 | 104.1 | 89.8 | 57.2 | 22.5 | 8.2 | 4.1 | 0.0 | 0.0 |
| 72.5° | 608.3 | 226.6 | 93.9 | 75.5 | 61.2 | 36.7 | 12.2 | 6.1 | 4.1 | 0.0 | 0.0 |
| 75° | 281.7 | 144.9 | 59.2 | 40.8 | 34.7 | 18.4 | 8.2 | 4.1 | 2.0 | 0.0 | 0.0 |
| 77.5° | 210.2 | 112.3 | 34.7 | 22.5 | 18.4 | 12.2 | 6.1 | 4.1 | 2.0 | 0.0 | 0.0 |
| 80° | 183.7 | 57.2 | 20.4 | 14.3 | 10.2 | 8.2 | 4.1 | 2.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 165.3 | 28.6 | 12.2 | 8.2 | 6.1 | 4.1 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 |
| 85° | 89.8 | 16.3 | 8.2 | 6.1 | 4.1 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 16.3 | 8.2 | 6.1 | 4.1 | 4.1 | 2.0 | 2.0 | 2.0 | 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)