

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: P459342

Luminaire Tested: **GLAN-SA8A-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8A-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA 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: 25716 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G4

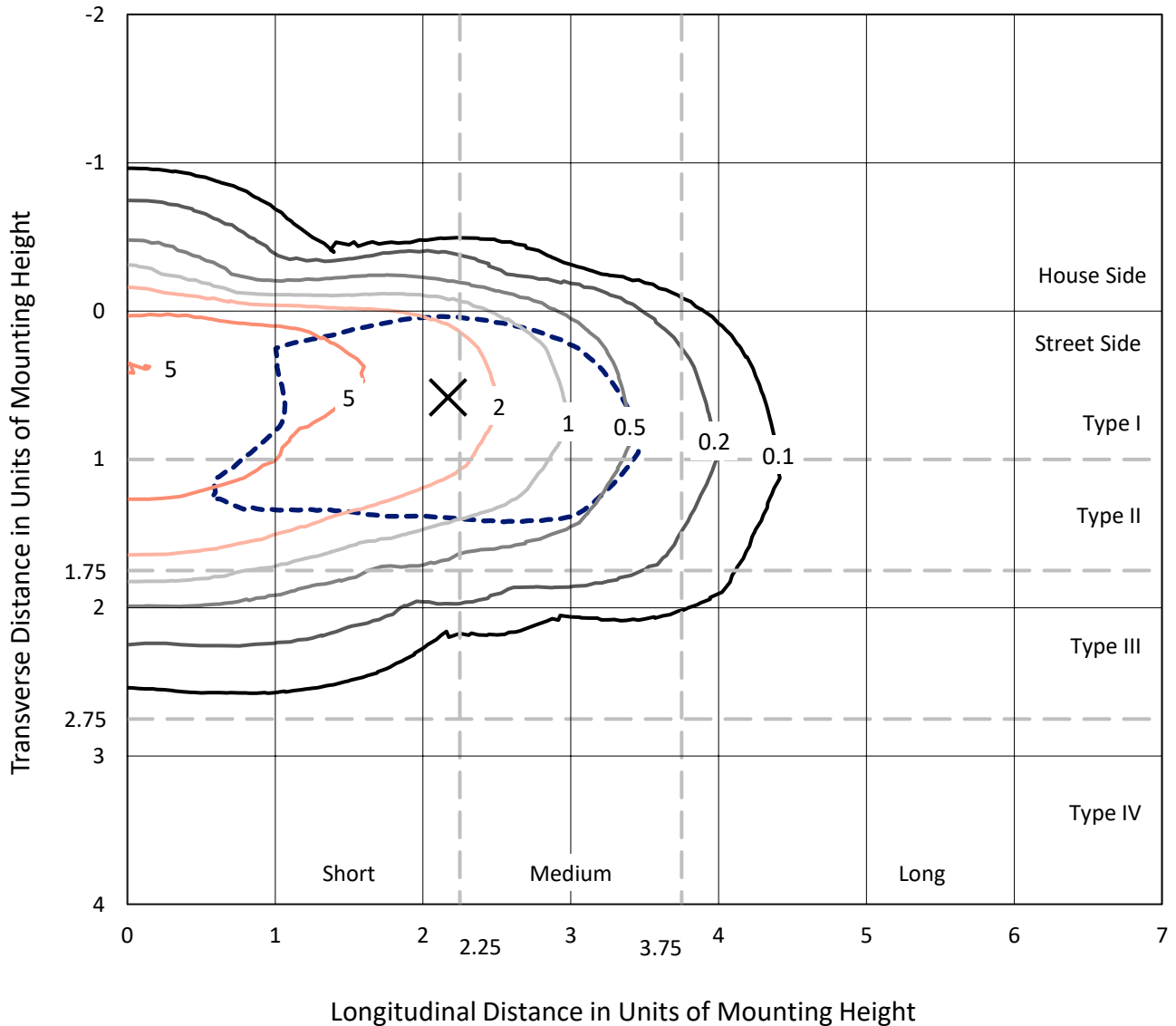
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459342
 CATALOG NUMBER: GLAN-SA8A-735-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

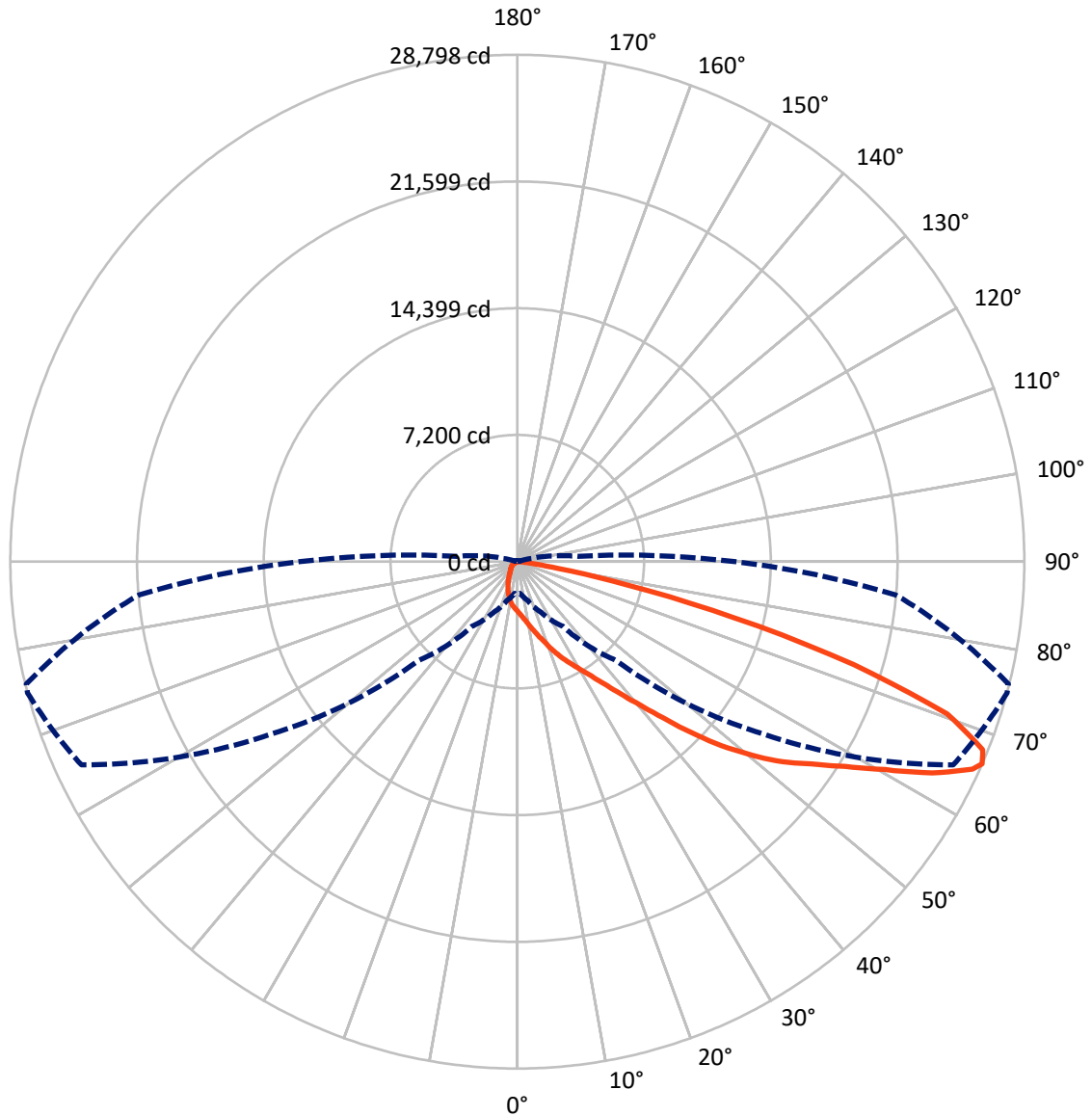
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

REPORT NUMBER: P459342
CATALOG NUMBER: GLAN-SA8A-735-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1587.6 | 0.0 | 1587.6 |
| | % Fixture | 6.2 | 0.0 | 6.2 |
| Street Side | Lumens | 24128.4 | 0.0 | 24128.4 |
| | % Fixture | 93.8 | 0.0 | 93.8 |
| Total | Lumens | 25716.0 | 0.0 | 25716.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 271.3 | 1.1 |
| 10°-20° | 798.3 | 3.1 |
| 20°-30° | 1378.5 | 5.4 |
| 30°-40° | 2486.5 | 9.7 |
| 40°-50° | 4492.0 | 17.5 |
| 50°-60° | 7003.0 | 27.2 |
| 60°-70° | 6652.6 | 25.9 |
| 70°-80° | 2493.2 | 9.7 |
| 80°-90° | 140.7 | 0.5 |
| 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° | 25716.0 | 100.0 |
| 0°-180° | 25716.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P459342

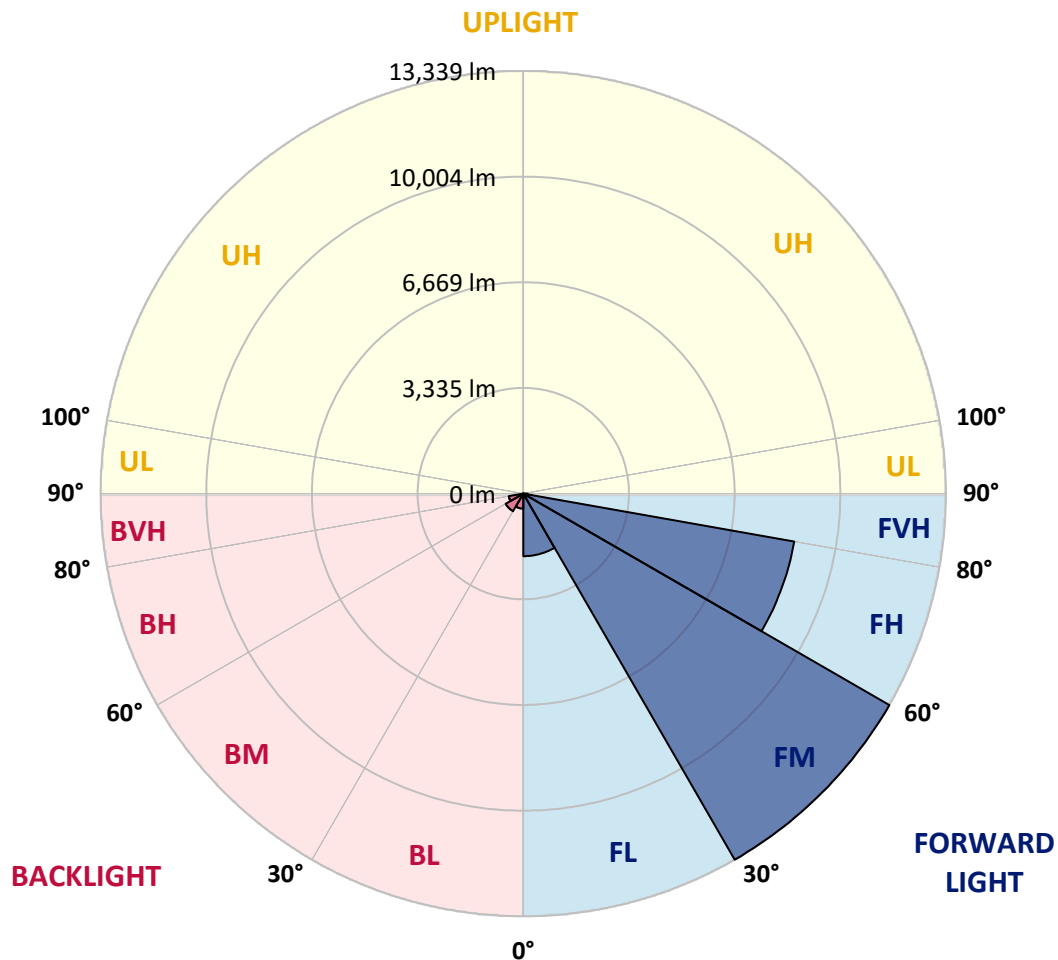
CATALOG NUMBER: GLAN-SA8A-735-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1973.9 | 7.7 | | | |
| FM | (30°-60°) | 13338.9 | 51.9 | | | |
| FH | (60°-80°) | 8682.2 | 33.8 | | | G4/12000 |
| FVH | (80°-90°) | 133.4 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 474.1 | 1.8 | B1/500 | | |
| BM | (30°-60°) | 642.6 | 2.5 | B1/1000 | | |
| BH | (60°-80°) | 463.6 | 1.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 7.3 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G4

Type II Short





REPORT NUMBER: P459342

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2812.3 | 2812.3 | 2812.3 | 2812.3 | 2812.3 | 2812.3 | 2812.3 | 2812.3 | 2812.3 | 2812.3 | 2812.3 |
| 2.5° | 3359.9 | 3318.1 | 3331.4 | 3312.4 | 3268.7 | 3204.0 | 3147.0 | 3065.2 | 2983.4 | 2970.1 | 2878.9 |
| 5° | 3803.0 | 3791.6 | 3776.4 | 3721.2 | 3690.8 | 3591.9 | 3474.0 | 3333.3 | 3164.1 | 3133.7 | 2968.2 |
| 7.5° | 4105.3 | 4099.6 | 4107.2 | 4078.7 | 4052.1 | 3962.7 | 3837.2 | 3645.1 | 3382.7 | 3365.6 | 3089.9 |
| 10° | 4204.2 | 4219.4 | 4247.9 | 4293.6 | 4335.4 | 4306.9 | 4211.8 | 3972.2 | 3666.1 | 3616.6 | 3228.7 |
| 12.5° | 4147.1 | 4164.3 | 4232.7 | 4354.4 | 4489.4 | 4567.4 | 4529.3 | 4354.4 | 3966.5 | 3926.6 | 3384.6 |
| 15° | 4000.7 | 4021.6 | 4118.6 | 4306.9 | 4548.4 | 4768.9 | 4864.0 | 4738.5 | 4316.4 | 4251.7 | 3572.9 |
| 17.5° | 3784.0 | 3814.4 | 3953.2 | 4202.3 | 4533.1 | 4913.4 | 5181.6 | 5139.7 | 4689.1 | 4628.2 | 3778.3 |
| 20° | 3620.4 | 3643.2 | 3761.1 | 4046.4 | 4468.5 | 4993.3 | 5483.9 | 5601.8 | 5149.2 | 5044.6 | 4019.7 |
| 22.5° | 3728.8 | 3736.4 | 3776.4 | 3947.5 | 4352.5 | 5014.2 | 5750.1 | 6082.9 | 5637.9 | 5544.7 | 4270.7 |
| 25° | 4259.3 | 4183.3 | 4143.3 | 4105.3 | 4327.8 | 4995.2 | 5991.6 | 6584.8 | 6124.7 | 6025.8 | 4519.8 |
| 27.5° | 5096.0 | 5061.8 | 4860.2 | 4590.2 | 4538.8 | 5019.9 | 6151.3 | 7060.2 | 6582.9 | 6476.5 | 4763.2 |
| 30° | 6006.8 | 5947.9 | 5824.3 | 5428.7 | 5031.3 | 5194.9 | 6267.3 | 7522.3 | 7124.9 | 6984.2 | 4985.7 |
| 32.5° | 6843.5 | 6881.5 | 6697.0 | 6290.1 | 5830.0 | 5567.6 | 6417.5 | 8026.2 | 7746.7 | 7571.7 | 5244.3 |
| 35° | 7818.9 | 7895.0 | 7611.7 | 7221.8 | 6683.7 | 6240.7 | 6710.3 | 8594.7 | 8535.8 | 8315.2 | 5643.6 |
| 37.5° | 8809.6 | 8855.2 | 8682.2 | 8134.6 | 7649.7 | 7096.3 | 7261.8 | 9296.4 | 9507.4 | 9319.2 | 6120.9 |
| 40° | 9642.4 | 9705.2 | 9577.8 | 9091.0 | 8573.8 | 8087.0 | 8062.3 | 10060.8 | 10663.5 | 10469.6 | 6832.0 |
| 42.5° | 10279.4 | 10327.0 | 10330.8 | 9986.6 | 9520.7 | 9300.2 | 9083.4 | 11036.2 | 12112.5 | 11888.1 | 7657.3 |
| 45° | 11083.8 | 11152.2 | 11112.3 | 10878.4 | 10530.4 | 10490.5 | 10378.3 | 12215.2 | 13846.6 | 13563.3 | 8727.8 |
| 47.5° | 12327.3 | 12373.0 | 12274.1 | 11998.4 | 11644.7 | 11707.5 | 11640.9 | 13536.7 | 15615.0 | 15371.6 | 9836.4 |
| 50° | 13190.6 | 13266.7 | 13407.4 | 13517.7 | 13261.0 | 13029.0 | 12831.2 | 14770.7 | 17294.0 | 17075.4 | 10969.7 |
| 52.5° | 13181.1 | 13306.6 | 13751.6 | 14306.8 | 14867.7 | 14797.4 | 14228.8 | 16134.1 | 18897.0 | 18627.0 | 12034.5 |
| 55° | 12293.1 | 12536.5 | 13190.6 | 14175.6 | 15729.1 | 16503.0 | 16244.4 | 17712.3 | 20281.3 | 20098.7 | 13268.6 |
| 57.5° | 10460.1 | 10608.4 | 11517.3 | 12894.0 | 15248.0 | 17305.4 | 18579.4 | 19851.5 | 21941.3 | 21855.7 | 15185.3 |
| 60° | 7035.5 | 7102.1 | 8271.5 | 9973.3 | 12981.4 | 16504.9 | 20290.8 | 22439.4 | 23985.4 | 23943.5 | 17423.3 |
| 62.5° | 4031.2 | 4059.7 | 4907.7 | 6343.4 | 9237.4 | 13987.3 | 20435.3 | 25632.0 | 26436.4 | 26459.2 | 20013.1 |
| 65° | 2169.6 | 2184.8 | 2869.3 | 3723.1 | 5620.8 | 9969.5 | 18376.0 | 27381.4 | 28417.7 | 28461.5 | 21618.0 |
| 66° | 1873.0 | 1800.7 | 2283.7 | 3173.6 | 4472.3 | 7934.9 | 17073.4 | 27318.7 | 28798.0 | 28750.5 | 21561.0 |
| 67.5° | 1424.2 | 1488.9 | 1823.5 | 2439.6 | 3314.3 | 5641.7 | 14095.7 | 26103.6 | 28509.0 | 28360.7 | 20684.4 |
| 70° | 1019.2 | 1045.8 | 1298.7 | 1739.9 | 2257.1 | 3095.6 | 9007.3 | 21680.8 | 25911.6 | 25711.9 | 18020.4 |
| 72.5° | 657.9 | 686.4 | 920.3 | 1258.8 | 1631.5 | 1690.4 | 5042.7 | 15664.4 | 19977.0 | 19948.5 | 13570.9 |
| 75° | 469.7 | 496.3 | 608.5 | 901.3 | 1226.5 | 1045.8 | 2428.2 | 10557.1 | 12700.0 | 12614.5 | 8395.1 |
| 77.5° | 340.4 | 353.7 | 406.9 | 589.5 | 876.6 | 749.2 | 1125.7 | 5637.9 | 6322.4 | 6621.0 | 3709.8 |
| 80° | 195.9 | 207.3 | 283.3 | 359.4 | 593.3 | 511.5 | 538.1 | 2262.8 | 2333.1 | 2220.9 | 1159.9 |
| 82.5° | 97.0 | 110.3 | 169.2 | 245.3 | 370.8 | 344.2 | 247.2 | 680.7 | 718.8 | 699.7 | 292.8 |
| 85° | 22.8 | 28.5 | 95.1 | 161.6 | 180.6 | 154.0 | 119.8 | 199.7 | 247.2 | 241.5 | 112.2 |
| 87.5° | 1.9 | 3.8 | 34.2 | 28.5 | 30.4 | 51.3 | 41.8 | 51.3 | 79.9 | 74.2 | 39.9 |
| 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° | 2812.3 | 2812.3 | 2812.3 | 2812.3 | 2812.3 | 2812.3 | 2812.3 | 2812.3 | 2812.3 | 2812.3 | 2812.3 |
| 2.5° | 2837.0 | 2800.9 | 2696.3 | 2593.6 | 2508.1 | 2418.7 | 2336.9 | 2289.4 | 2270.4 | 2249.5 | 2259.0 |
| 5° | 2876.9 | 2789.5 | 2578.4 | 2395.9 | 2217.1 | 2065.0 | 1943.3 | 1865.4 | 1827.3 | 1821.6 | 1812.1 |
| 7.5° | 2930.2 | 2780.0 | 2452.9 | 2167.7 | 1933.8 | 1764.6 | 1625.8 | 1513.6 | 1479.4 | 1448.9 | 1424.2 |
| 10° | 2994.8 | 2762.9 | 2297.0 | 1928.1 | 1679.0 | 1466.0 | 1283.5 | 1150.4 | 1081.9 | 1062.9 | 1076.2 |
| 12.5° | 3063.3 | 2730.5 | 2133.5 | 1707.5 | 1420.4 | 1148.5 | 979.3 | 912.7 | 893.7 | 886.1 | 888.0 |
| 15° | 3131.7 | 2690.6 | 1962.3 | 1494.6 | 1131.4 | 916.5 | 838.6 | 821.4 | 813.8 | 810.0 | 806.2 |
| 17.5° | 3194.5 | 2626.0 | 1770.3 | 1287.3 | 916.5 | 783.4 | 754.9 | 739.7 | 724.5 | 718.8 | 709.3 |
| 20° | 3268.7 | 2551.8 | 1597.2 | 1055.3 | 775.8 | 709.3 | 675.0 | 646.5 | 623.7 | 608.5 | 606.6 |
| 22.5° | 3339.0 | 2456.7 | 1416.6 | 874.7 | 707.4 | 637.0 | 581.9 | 551.4 | 524.8 | 505.8 | 511.5 |
| 25° | 3377.0 | 2340.7 | 1255.0 | 762.5 | 644.6 | 564.7 | 503.9 | 465.9 | 437.3 | 427.8 | 425.9 |
| 27.5° | 3377.0 | 2198.1 | 1097.2 | 697.8 | 587.6 | 500.1 | 437.3 | 401.2 | 382.2 | 368.9 | 370.8 |
| 30° | 3350.4 | 2040.3 | 950.7 | 648.4 | 538.1 | 443.0 | 384.1 | 351.8 | 336.6 | 327.1 | 325.2 |
| 32.5° | 3329.5 | 1890.1 | 825.2 | 600.9 | 486.8 | 393.6 | 342.3 | 317.5 | 302.3 | 292.8 | 292.8 |
| 35° | 3361.8 | 1760.8 | 728.3 | 553.3 | 439.2 | 355.6 | 309.9 | 287.1 | 271.9 | 264.3 | 262.4 |
| 37.5° | 3447.4 | 1642.9 | 654.1 | 502.0 | 395.5 | 323.3 | 287.1 | 260.5 | 245.3 | 235.8 | 232.0 |
| 40° | 3658.5 | 1576.3 | 599.0 | 454.5 | 353.7 | 296.6 | 260.5 | 235.8 | 216.8 | 207.3 | 205.4 |
| 42.5° | 3996.9 | 1578.2 | 545.7 | 410.7 | 321.4 | 273.8 | 237.7 | 209.2 | 188.2 | 178.7 | 176.8 |
| 45° | 4506.5 | 1650.5 | 503.9 | 368.9 | 292.8 | 249.1 | 213.0 | 182.5 | 163.5 | 154.0 | 154.0 |
| 47.5° | 5116.9 | 1791.2 | 467.8 | 332.8 | 266.2 | 226.3 | 188.2 | 157.8 | 138.8 | 131.2 | 131.2 |
| 50° | 5778.6 | 1973.7 | 431.6 | 294.7 | 243.4 | 201.6 | 161.6 | 136.9 | 121.7 | 116.0 | 116.0 |
| 52.5° | 6453.6 | 2194.3 | 395.5 | 264.3 | 218.7 | 174.9 | 138.8 | 121.7 | 108.4 | 104.6 | 102.7 |
| 55° | 7339.7 | 2475.7 | 357.5 | 232.0 | 192.1 | 150.2 | 123.6 | 106.5 | 91.3 | 85.6 | 83.7 |
| 57.5° | 8703.1 | 2899.8 | 315.6 | 203.5 | 157.8 | 125.5 | 106.5 | 89.4 | 72.3 | 62.7 | 60.8 |
| 60° | 10347.9 | 3417.0 | 271.9 | 178.7 | 127.4 | 102.7 | 85.6 | 68.5 | 53.2 | 41.8 | 39.9 |
| 62.5° | 11888.1 | 3745.9 | 230.1 | 150.2 | 100.8 | 78.0 | 60.8 | 51.3 | 38.0 | 26.6 | 24.7 |
| 65° | 12568.8 | 3635.6 | 190.1 | 121.7 | 79.9 | 55.1 | 39.9 | 36.1 | 22.8 | 11.4 | 9.5 |
| 66° | 12342.6 | 3472.1 | 174.9 | 110.3 | 72.3 | 47.5 | 34.2 | 30.4 | 17.1 | 5.7 | 5.7 |
| 67.5° | 11675.1 | 3086.1 | 152.1 | 95.1 | 62.7 | 38.0 | 26.6 | 22.8 | 9.5 | 1.9 | 0.0 |
| 70° | 10003.7 | 2496.7 | 119.8 | 70.4 | 45.6 | 26.6 | 15.2 | 11.4 | 5.7 | 0.0 | 0.0 |
| 72.5° | 7683.9 | 1859.7 | 95.1 | 53.2 | 32.3 | 15.2 | 7.6 | 3.8 | 5.7 | 0.0 | 0.0 |
| 75° | 4708.1 | 1062.9 | 74.2 | 39.9 | 20.9 | 9.5 | 5.7 | 0.0 | 5.7 | 1.9 | 0.0 |
| 77.5° | 2089.7 | 477.3 | 49.4 | 26.6 | 15.2 | 7.6 | 3.8 | 0.0 | 3.8 | 1.9 | 0.0 |
| 80° | 528.6 | 155.9 | 28.5 | 19.0 | 11.4 | 5.7 | 1.9 | 0.0 | 3.8 | 3.8 | 1.9 |
| 82.5° | 144.5 | 57.0 | 20.9 | 15.2 | 9.5 | 5.7 | 1.9 | 0.0 | 3.8 | 3.8 | 3.8 |
| 85° | 57.0 | 26.6 | 19.0 | 15.2 | 11.4 | 5.7 | 1.9 | 0.0 | 3.8 | 3.8 | 3.8 |
| 87.5° | 26.6 | 19.0 | 19.0 | 17.1 | 13.3 | 5.7 | 1.9 | 0.0 | 3.8 | 1.9 | 3.8 |
| 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)