

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: P458588

Luminaire Tested: **GLAN-SA1C-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458588
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-SA1C-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4954 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

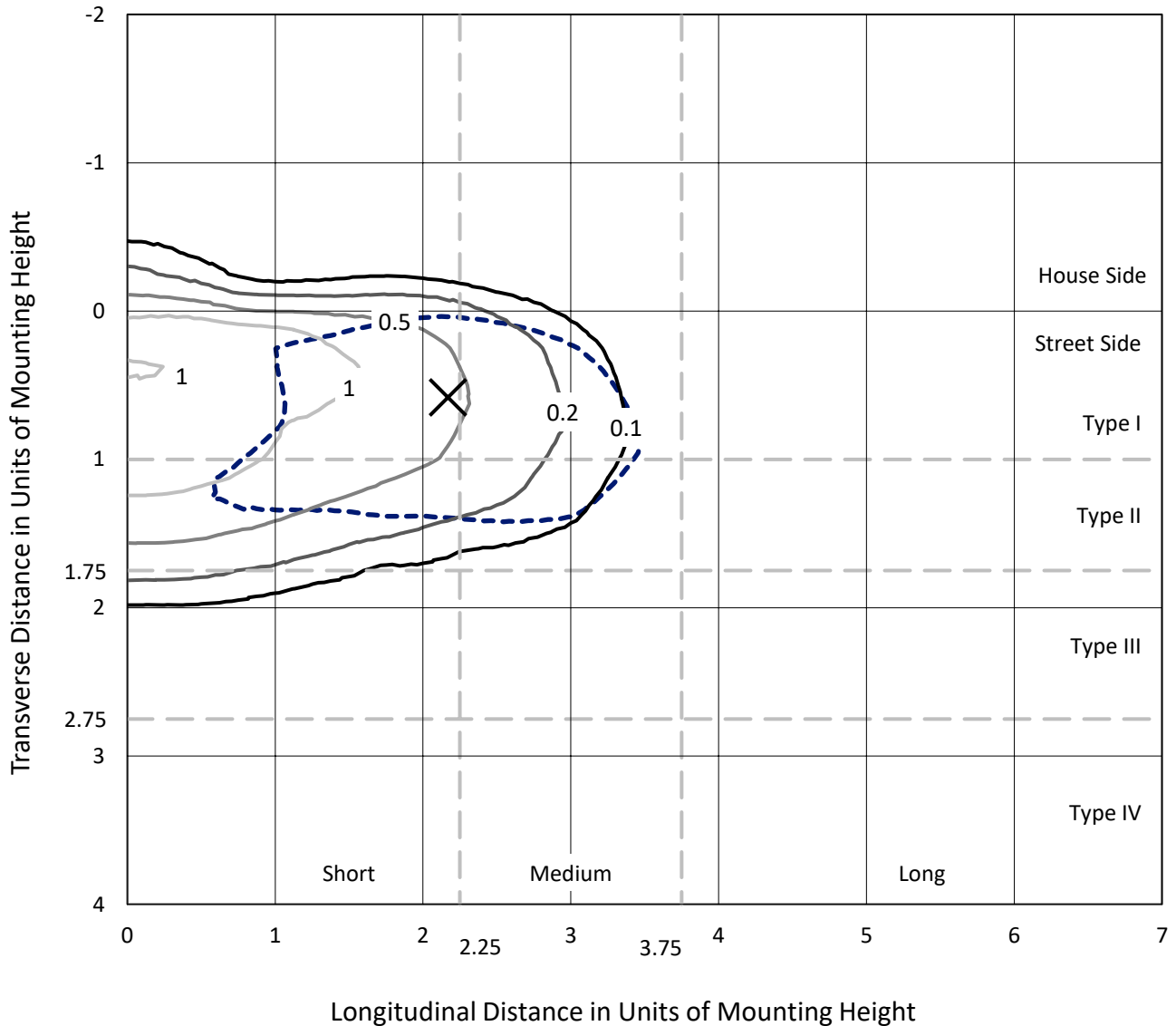
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

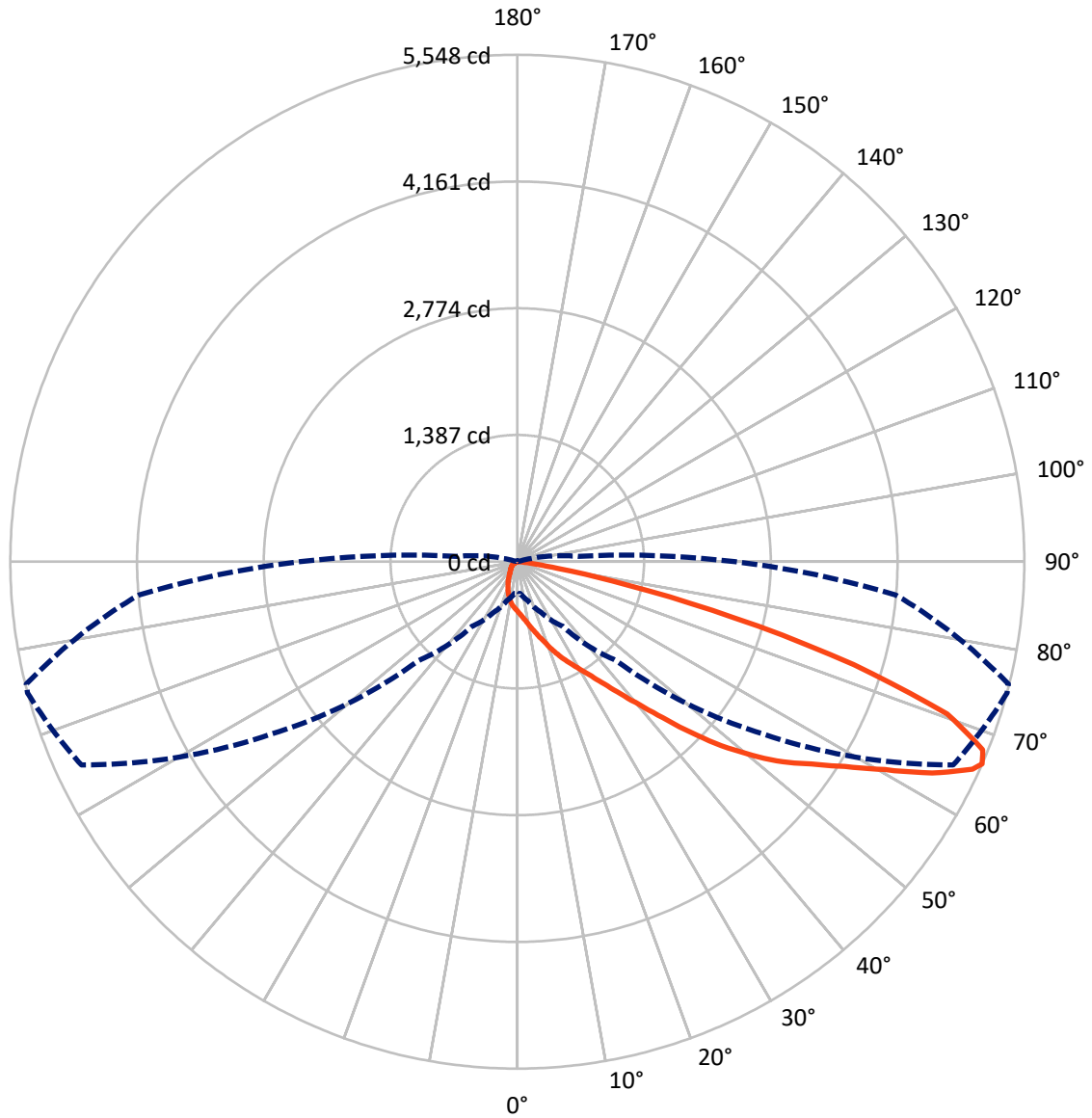
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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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 | 305.8 | 0.0 | 305.8 |
| | % Fixture | 6.2 | 0.0 | 6.2 |
| Street Side | Lumens | 4648.2 | 0.0 | 4648.2 |
| | % Fixture | 93.8 | 0.0 | 93.8 |
| Total | Lumens | 4954.0 | 0.0 | 4954.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 52.3 | 1.1 |
| 10°-20° | 153.8 | 3.1 |
| 20°-30° | 265.6 | 5.4 |
| 30°-40° | 479.0 | 9.7 |
| 40°-50° | 865.3 | 17.5 |
| 50°-60° | 1349.1 | 27.2 |
| 60°-70° | 1281.6 | 25.9 |
| 70°-80° | 480.3 | 9.7 |
| 80°-90° | 27.1 | 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° | 4954.0 | 100.0 |
| 0°-180° | 4954.0 | 100.0 |

Coefficient of Utilization



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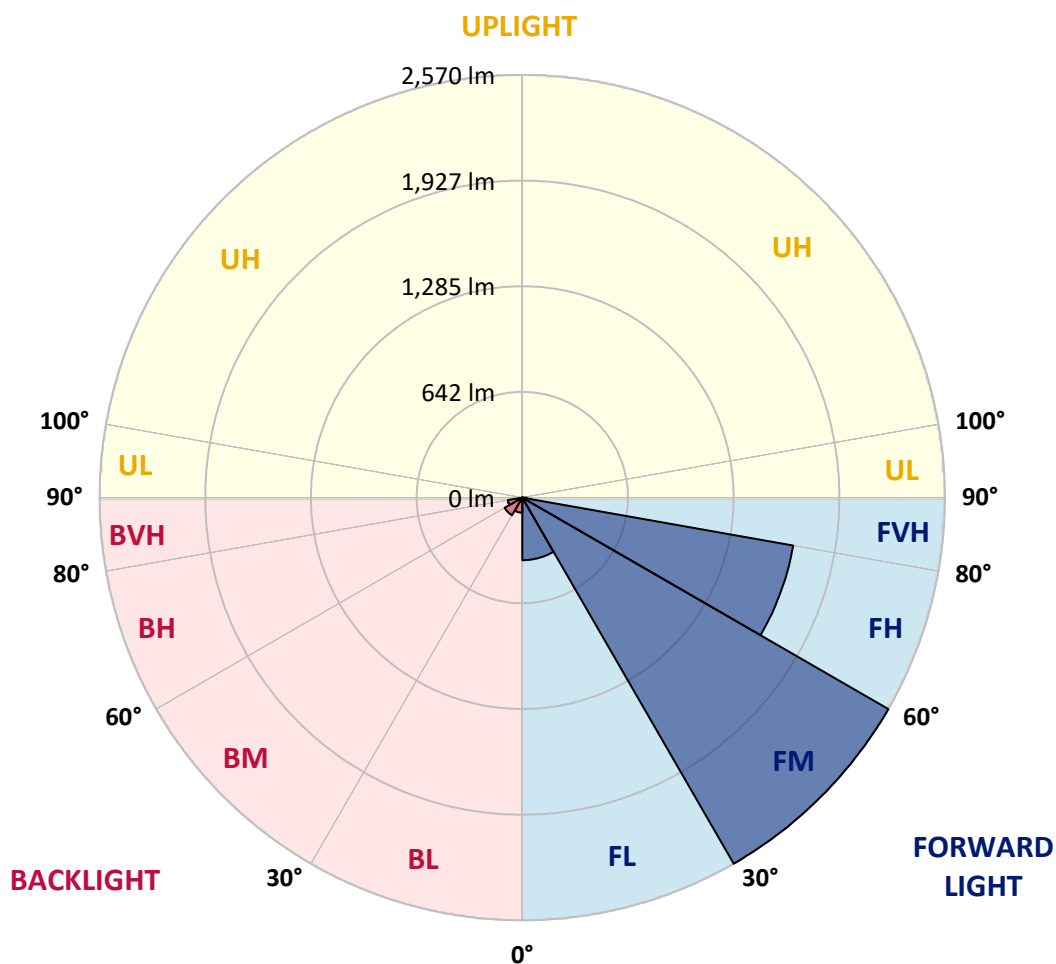
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 380.3 | 7.7 | | | |
| FM | (30°-60°) | 2569.6 | 51.9 | | | |
| FH | (60°-80°) | 1672.6 | 33.8 | | | G1/1800 |
| FVH | (80°-90°) | 25.7 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 91.3 | 1.8 | B0/110 | | |
| BM | (30°-60°) | 123.8 | 2.5 | B0/220 | | |
| BH | (60°-80°) | 89.3 | 1.8 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 1.4 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 |
| 2.5° | 647.3 | 639.2 | 641.8 | 638.1 | 629.7 | 617.2 | 606.2 | 590.5 | 574.7 | 572.2 | 554.6 |
| 5° | 732.6 | 730.4 | 727.5 | 716.9 | 711.0 | 692.0 | 669.2 | 642.1 | 609.5 | 603.7 | 571.8 |
| 7.5° | 790.9 | 789.8 | 791.2 | 785.7 | 780.6 | 763.4 | 739.2 | 702.2 | 651.7 | 648.4 | 595.2 |
| 10° | 809.9 | 812.8 | 818.3 | 827.1 | 835.2 | 829.7 | 811.4 | 765.2 | 706.2 | 696.7 | 622.0 |
| 12.5° | 798.9 | 802.2 | 815.4 | 838.8 | 864.9 | 879.9 | 872.5 | 838.8 | 764.1 | 756.4 | 652.0 |
| 15° | 770.7 | 774.7 | 793.4 | 829.7 | 876.2 | 918.7 | 937.0 | 912.8 | 831.5 | 819.1 | 688.3 |
| 17.5° | 729.0 | 734.8 | 761.6 | 809.5 | 873.3 | 946.5 | 998.2 | 990.1 | 903.3 | 891.6 | 727.9 |
| 20° | 697.4 | 701.8 | 724.6 | 779.5 | 860.8 | 961.9 | 1056.4 | 1079.1 | 992.0 | 971.8 | 774.4 |
| 22.5° | 718.3 | 719.8 | 727.5 | 760.5 | 838.5 | 966.0 | 1107.7 | 1171.8 | 1086.1 | 1068.2 | 822.7 |
| 25° | 820.5 | 805.9 | 798.2 | 790.9 | 833.7 | 962.3 | 1154.2 | 1268.5 | 1179.9 | 1160.8 | 870.7 |
| 27.5° | 981.7 | 975.1 | 936.3 | 884.3 | 874.4 | 967.1 | 1185.0 | 1360.1 | 1268.2 | 1247.6 | 917.6 |
| 30° | 1157.2 | 1145.8 | 1122.0 | 1045.8 | 969.2 | 1000.8 | 1207.3 | 1449.1 | 1372.6 | 1345.4 | 960.5 |
| 32.5° | 1318.3 | 1325.7 | 1290.1 | 1211.7 | 1123.1 | 1072.5 | 1236.3 | 1546.2 | 1492.3 | 1458.6 | 1010.3 |
| 35° | 1506.3 | 1520.9 | 1466.3 | 1391.2 | 1287.6 | 1202.2 | 1292.7 | 1655.7 | 1644.4 | 1601.9 | 1087.2 |
| 37.5° | 1697.1 | 1705.9 | 1672.6 | 1567.1 | 1473.7 | 1367.1 | 1398.9 | 1790.9 | 1831.5 | 1795.3 | 1179.1 |
| 40° | 1857.5 | 1869.6 | 1845.1 | 1751.3 | 1651.7 | 1557.9 | 1553.1 | 1938.1 | 2054.3 | 2016.9 | 1316.1 |
| 42.5° | 1980.3 | 1989.4 | 1990.1 | 1923.8 | 1834.1 | 1791.6 | 1749.9 | 2126.0 | 2333.4 | 2290.2 | 1475.1 |
| 45° | 2135.2 | 2148.4 | 2140.7 | 2095.6 | 2028.6 | 2020.9 | 1999.3 | 2353.2 | 2667.5 | 2612.9 | 1681.4 |
| 47.5° | 2374.8 | 2383.6 | 2364.5 | 2311.4 | 2243.3 | 2255.4 | 2242.5 | 2607.7 | 3008.1 | 2961.2 | 1894.9 |
| 50° | 2541.1 | 2555.7 | 2582.8 | 2604.1 | 2554.6 | 2509.9 | 2471.8 | 2845.5 | 3331.6 | 3289.4 | 2113.2 |
| 52.5° | 2539.2 | 2563.4 | 2649.1 | 2756.1 | 2864.2 | 2850.6 | 2741.1 | 3108.1 | 3640.4 | 3588.3 | 2318.4 |
| 55° | 2368.2 | 2415.1 | 2541.1 | 2730.8 | 3030.1 | 3179.2 | 3129.4 | 3412.2 | 3907.0 | 3871.9 | 2556.1 |
| 57.5° | 2015.1 | 2043.6 | 2218.7 | 2483.9 | 2937.4 | 3333.8 | 3579.2 | 3824.3 | 4226.8 | 4210.3 | 2925.3 |
| 60° | 1355.3 | 1368.2 | 1593.4 | 1921.3 | 2500.8 | 3179.5 | 3908.9 | 4322.8 | 4620.6 | 4612.5 | 3356.5 |
| 62.5° | 776.6 | 782.1 | 945.4 | 1222.0 | 1779.5 | 2694.6 | 3936.7 | 4937.8 | 5092.8 | 5097.2 | 3855.4 |
| 65° | 418.0 | 420.9 | 552.8 | 717.2 | 1082.8 | 1920.6 | 3540.0 | 5274.8 | 5474.5 | 5482.9 | 4164.6 |
| 66° | 360.8 | 346.9 | 439.9 | 611.4 | 861.6 | 1528.6 | 3289.1 | 5262.7 | 5547.7 | 5538.6 | 4153.6 |
| 67.5° | 274.4 | 286.8 | 351.3 | 470.0 | 638.5 | 1086.8 | 2715.4 | 5028.7 | 5492.0 | 5463.5 | 3984.7 |
| 70° | 196.3 | 201.5 | 250.2 | 335.2 | 434.8 | 596.3 | 1735.2 | 4176.6 | 4991.7 | 4953.2 | 3471.5 |
| 72.5° | 126.7 | 132.2 | 177.3 | 242.5 | 314.3 | 325.6 | 971.4 | 3017.6 | 3848.4 | 3842.9 | 2614.3 |
| 75° | 90.5 | 95.6 | 117.2 | 173.6 | 236.3 | 201.5 | 467.8 | 2033.7 | 2446.6 | 2430.1 | 1617.2 |
| 77.5° | 65.6 | 68.1 | 78.4 | 113.6 | 168.9 | 144.3 | 216.9 | 1086.1 | 1218.0 | 1275.5 | 714.7 |
| 80° | 37.7 | 39.9 | 54.6 | 69.2 | 114.3 | 98.5 | 103.7 | 435.9 | 449.5 | 427.8 | 223.4 |
| 82.5° | 18.7 | 21.2 | 32.6 | 47.3 | 71.4 | 66.3 | 47.6 | 131.1 | 138.5 | 134.8 | 56.4 |
| 85° | 4.4 | 5.5 | 18.3 | 31.1 | 34.8 | 29.7 | 23.1 | 38.5 | 47.6 | 46.5 | 21.6 |
| 87.5° | 0.4 | 0.7 | 6.6 | 5.5 | 5.9 | 9.9 | 8.1 | 9.9 | 15.4 | 14.3 | 7.7 |
| 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° | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 | 541.8 |
| 2.5° | 546.5 | 539.6 | 519.4 | 499.6 | 483.2 | 465.9 | 450.2 | 441.0 | 437.4 | 433.3 | 435.2 |
| 5° | 554.2 | 537.4 | 496.7 | 461.5 | 427.1 | 397.8 | 374.4 | 359.3 | 352.0 | 350.9 | 349.1 |
| 7.5° | 564.5 | 535.5 | 472.5 | 417.6 | 372.5 | 339.9 | 313.2 | 291.6 | 285.0 | 279.1 | 274.4 |
| 10° | 576.9 | 532.2 | 442.5 | 371.4 | 323.4 | 282.4 | 247.3 | 221.6 | 208.4 | 204.8 | 207.3 |
| 12.5° | 590.1 | 526.0 | 411.0 | 328.9 | 273.6 | 221.2 | 188.6 | 175.8 | 172.2 | 170.7 | 171.1 |
| 15° | 603.3 | 518.3 | 378.0 | 287.9 | 218.0 | 176.6 | 161.5 | 158.2 | 156.8 | 156.0 | 155.3 |
| 17.5° | 615.4 | 505.9 | 341.0 | 248.0 | 176.6 | 150.9 | 145.4 | 142.5 | 139.6 | 138.5 | 136.6 |
| 20° | 629.7 | 491.6 | 307.7 | 203.3 | 149.5 | 136.6 | 130.0 | 124.5 | 120.1 | 117.2 | 116.9 |
| 22.5° | 643.2 | 473.3 | 272.9 | 168.5 | 136.3 | 122.7 | 112.1 | 106.2 | 101.1 | 97.4 | 98.5 |
| 25° | 650.6 | 450.9 | 241.8 | 146.9 | 124.2 | 108.8 | 97.1 | 89.7 | 84.3 | 82.4 | 82.1 |
| 27.5° | 650.6 | 423.5 | 211.4 | 134.4 | 113.2 | 96.3 | 84.3 | 77.3 | 73.6 | 71.1 | 71.4 |
| 30° | 645.4 | 393.0 | 183.2 | 124.9 | 103.7 | 85.3 | 74.0 | 67.8 | 64.8 | 63.0 | 62.6 |
| 32.5° | 641.4 | 364.1 | 159.0 | 115.8 | 93.8 | 75.8 | 65.9 | 61.2 | 58.2 | 56.4 | 56.4 |
| 35° | 647.6 | 339.2 | 140.3 | 106.6 | 84.6 | 68.5 | 59.7 | 55.3 | 52.4 | 50.9 | 50.6 |
| 37.5° | 664.1 | 316.5 | 126.0 | 96.7 | 76.2 | 62.3 | 55.3 | 50.2 | 47.3 | 45.4 | 44.7 |
| 40° | 704.8 | 303.7 | 115.4 | 87.5 | 68.1 | 57.1 | 50.2 | 45.4 | 41.8 | 39.9 | 39.6 |
| 42.5° | 770.0 | 304.0 | 105.1 | 79.1 | 61.9 | 52.7 | 45.8 | 40.3 | 36.3 | 34.4 | 34.1 |
| 45° | 868.1 | 318.0 | 97.1 | 71.1 | 56.4 | 48.0 | 41.0 | 35.2 | 31.5 | 29.7 | 29.7 |
| 47.5° | 985.7 | 345.1 | 90.1 | 64.1 | 51.3 | 43.6 | 36.3 | 30.4 | 26.7 | 25.3 | 25.3 |
| 50° | 1113.2 | 380.2 | 83.2 | 56.8 | 46.9 | 38.8 | 31.1 | 26.4 | 23.4 | 22.3 | 22.3 |
| 52.5° | 1243.2 | 422.7 | 76.2 | 50.9 | 42.1 | 33.7 | 26.7 | 23.4 | 20.9 | 20.1 | 19.8 |
| 55° | 1413.9 | 476.9 | 68.9 | 44.7 | 37.0 | 28.9 | 23.8 | 20.5 | 17.6 | 16.5 | 16.1 |
| 57.5° | 1676.6 | 558.6 | 60.8 | 39.2 | 30.4 | 24.2 | 20.5 | 17.2 | 13.9 | 12.1 | 11.7 |
| 60° | 1993.4 | 658.3 | 52.4 | 34.4 | 24.5 | 19.8 | 16.5 | 13.2 | 10.3 | 8.1 | 7.7 |
| 62.5° | 2290.2 | 721.6 | 44.3 | 28.9 | 19.4 | 15.0 | 11.7 | 9.9 | 7.3 | 5.1 | 4.8 |
| 65° | 2421.3 | 700.4 | 36.6 | 23.4 | 15.4 | 10.6 | 7.7 | 7.0 | 4.4 | 2.2 | 1.8 |
| 66° | 2377.7 | 668.9 | 33.7 | 21.2 | 13.9 | 9.2 | 6.6 | 5.9 | 3.3 | 1.1 | 1.1 |
| 67.5° | 2249.1 | 594.5 | 29.3 | 18.3 | 12.1 | 7.3 | 5.1 | 4.4 | 1.8 | 0.4 | 0.0 |
| 70° | 1927.1 | 481.0 | 23.1 | 13.6 | 8.8 | 5.1 | 2.9 | 2.2 | 1.1 | 0.0 | 0.0 |
| 72.5° | 1480.2 | 358.2 | 18.3 | 10.3 | 6.2 | 2.9 | 1.5 | 0.7 | 1.1 | 0.0 | 0.0 |
| 75° | 907.0 | 204.8 | 14.3 | 7.7 | 4.0 | 1.8 | 1.1 | 0.0 | 1.1 | 0.4 | 0.0 |
| 77.5° | 402.6 | 91.9 | 9.5 | 5.1 | 2.9 | 1.5 | 0.7 | 0.0 | 0.7 | 0.4 | 0.0 |
| 80° | 101.8 | 30.0 | 5.5 | 3.7 | 2.2 | 1.1 | 0.4 | 0.0 | 0.7 | 0.7 | 0.4 |
| 82.5° | 27.8 | 11.0 | 4.0 | 2.9 | 1.8 | 1.1 | 0.4 | 0.0 | 0.7 | 0.7 | 0.7 |
| 85° | 11.0 | 5.1 | 3.7 | 2.9 | 2.2 | 1.1 | 0.4 | 0.0 | 0.7 | 0.7 | 0.7 |
| 87.5° | 5.1 | 3.7 | 3.7 | 3.3 | 2.6 | 1.1 | 0.4 | 0.0 | 0.7 | 0.4 | 0.7 |
| 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)