

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: P649765

Luminaire Tested: **GLAN-SA2A-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649765
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-SA2A-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 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: 5383.1 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G2

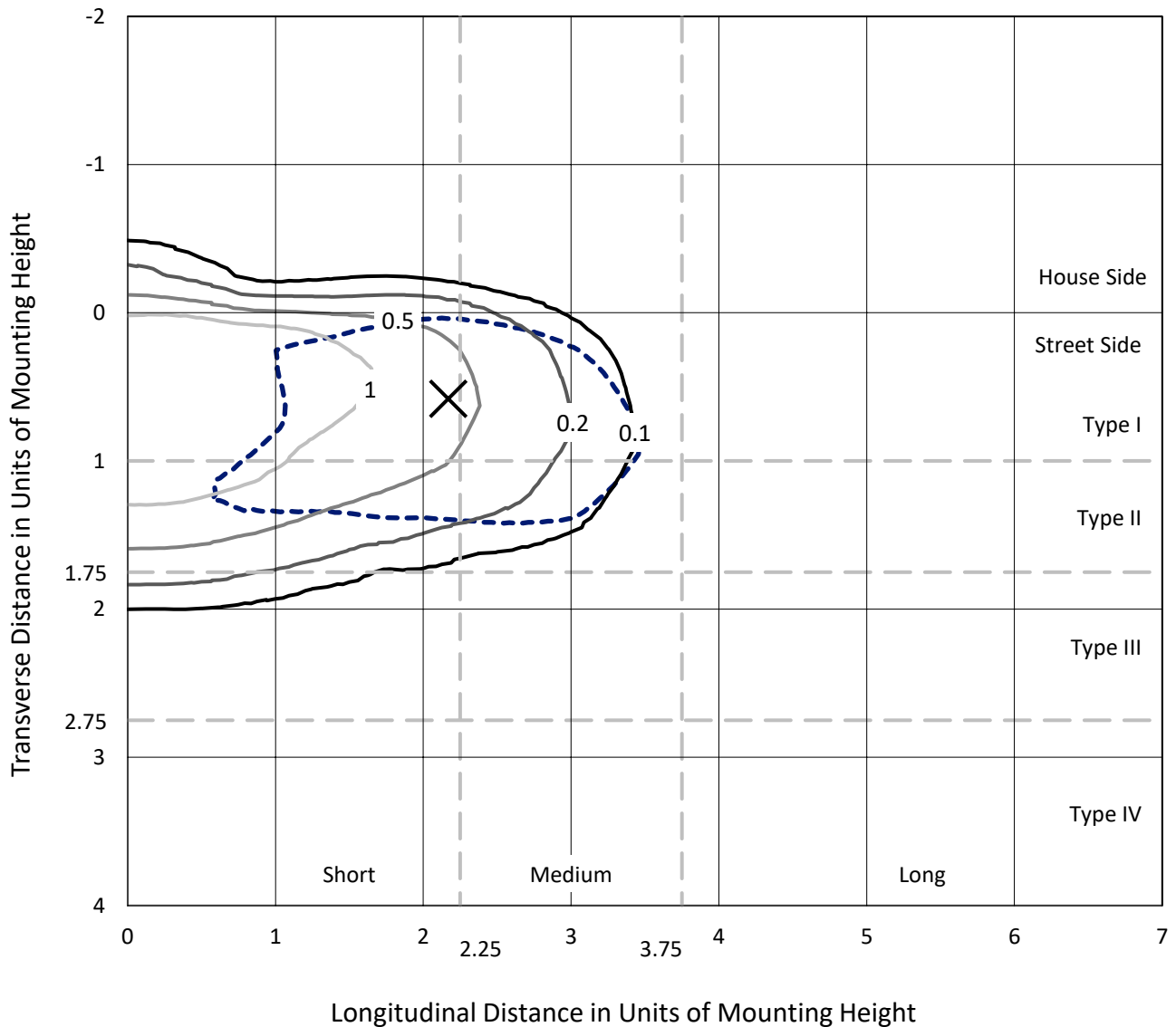
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

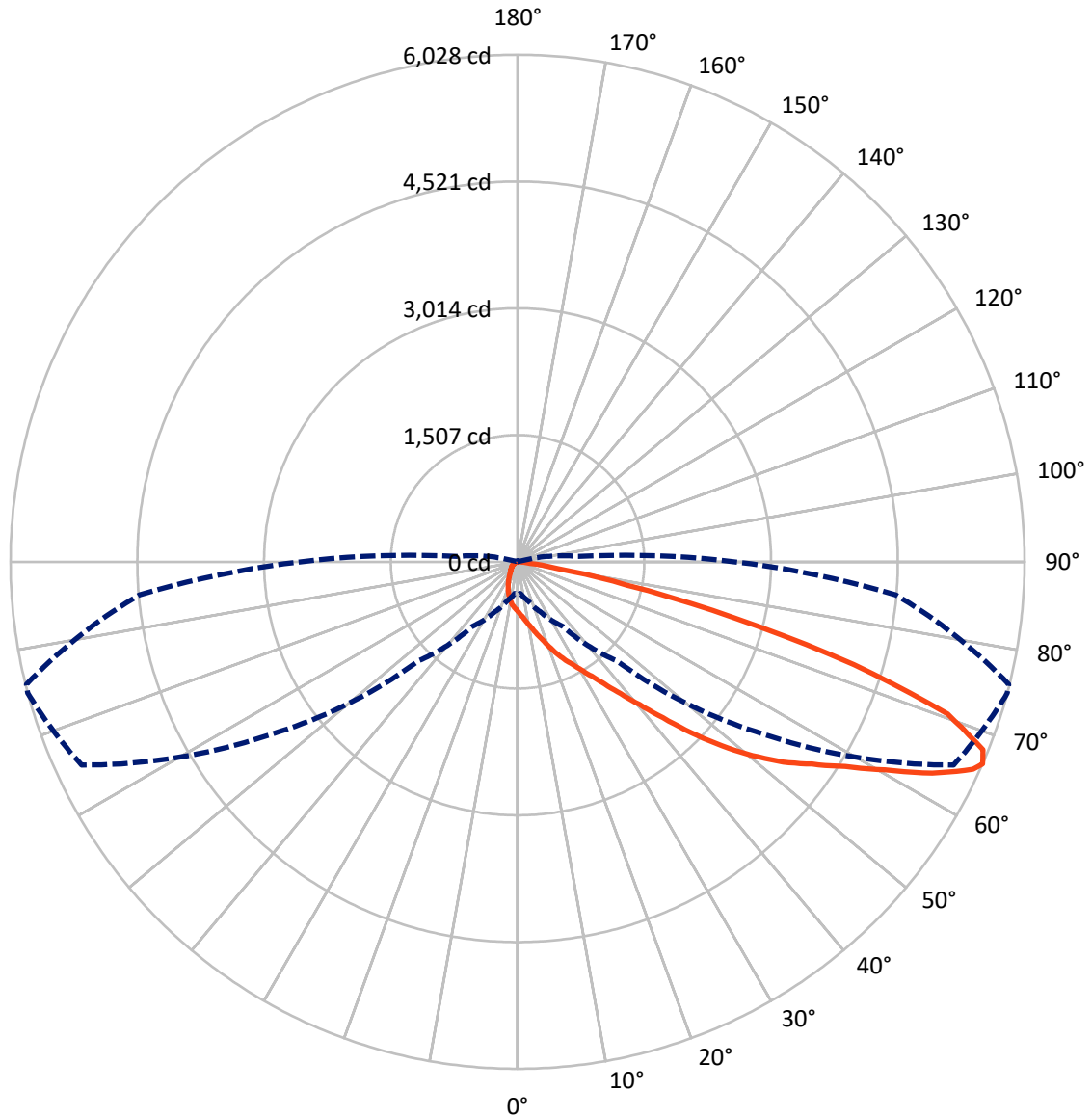
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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 | 332.3 | 0.0 | 332.3 |
| | % Fixture | 6.2 | 0.0 | 6.2 |
| Street Side | Lumens | 5050.8 | 0.0 | 5050.8 |
| | % Fixture | 93.8 | 0.0 | 93.8 |
| Total | Lumens | 5383.1 | 0.0 | 5383.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 56.8 | 1.1 |
| 10°-20° | 167.1 | 3.1 |
| 20°-30° | 288.6 | 5.4 |
| 30°-40° | 520.5 | 9.7 |
| 40°-50° | 940.3 | 17.5 |
| 50°-60° | 1465.9 | 27.2 |
| 60°-70° | 1392.6 | 25.9 |
| 70°-80° | 521.9 | 9.7 |
| 80°-90° | 29.5 | 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° | 5383.1 | 100.0 |
| 0°-180° | 5383.1 | 100.0 |

Coefficient of Utilization

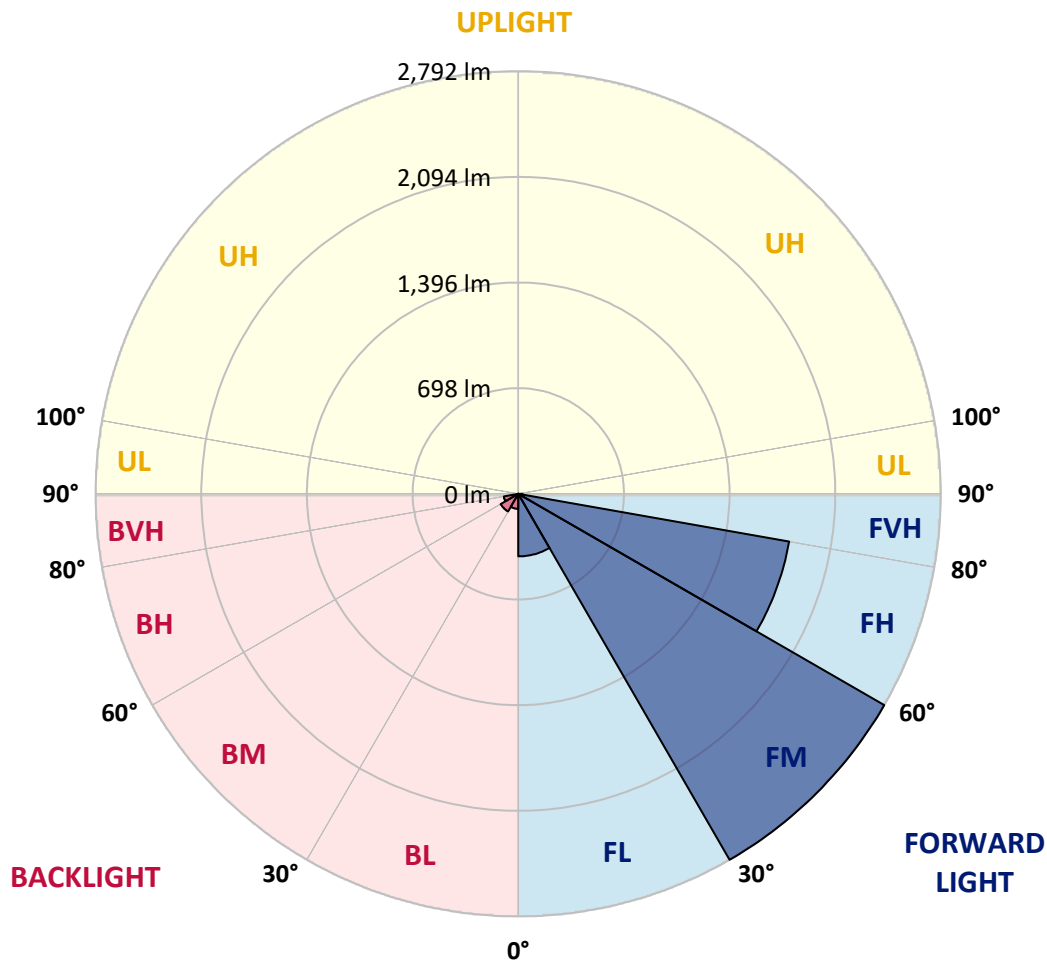


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 413.2 | 7.7 | | | |
| FM (30°-60°) | 2792.2 | 51.9 | | | |
| FH (60°-80°) | 1817.4 | 33.8 | | | G2/5000 |
| FVH (80°-90°) | 27.9 | 0.5 | | | G1/100 |
| BL (0°-30°) | 99.2 | 1.8 | B0/110 | | |
| BM (30°-60°) | 134.5 | 2.5 | B0/220 | | |
| BH (60°-80°) | 97.1 | 1.8 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.5 | 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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 588.7 | 588.7 | 588.7 | 588.7 | 588.7 | 588.7 | 588.7 | 588.7 | 588.7 | 588.7 | 588.7 |
| 2.5° | 703.4 | 694.6 | 697.3 | 693.3 | 684.3 | 670.7 | 658.7 | 641.7 | 624.5 | 621.7 | 602.6 |
| 5° | 796.1 | 793.6 | 790.5 | 778.9 | 772.6 | 751.9 | 727.3 | 697.7 | 662.3 | 656.0 | 621.3 |
| 7.5° | 859.3 | 858.2 | 859.7 | 853.8 | 848.2 | 829.5 | 803.2 | 763.0 | 708.1 | 704.5 | 646.8 |
| 10° | 880.1 | 883.2 | 889.3 | 898.8 | 907.5 | 901.5 | 881.7 | 831.5 | 767.4 | 757.1 | 675.9 |
| 12.5° | 868.1 | 871.7 | 886.0 | 911.5 | 939.8 | 956.1 | 948.1 | 911.5 | 830.3 | 821.9 | 708.5 |
| 15° | 837.5 | 841.9 | 862.2 | 901.5 | 952.1 | 998.2 | 1018.2 | 991.9 | 903.6 | 890.0 | 747.9 |
| 17.5° | 792.1 | 798.4 | 827.6 | 879.7 | 948.9 | 1028.5 | 1084.7 | 1075.9 | 981.6 | 968.8 | 790.9 |
| 20° | 757.9 | 762.6 | 787.3 | 847.0 | 935.4 | 1045.2 | 1148.0 | 1172.6 | 1077.9 | 1056.0 | 841.5 |
| 22.5° | 780.6 | 782.1 | 790.5 | 826.3 | 911.1 | 1049.6 | 1203.6 | 1273.3 | 1180.2 | 1160.6 | 894.0 |
| 25° | 891.6 | 875.7 | 867.3 | 859.3 | 905.9 | 1045.6 | 1254.2 | 1378.4 | 1282.1 | 1261.4 | 946.1 |
| 27.5° | 1066.8 | 1059.6 | 1017.4 | 960.9 | 950.1 | 1050.8 | 1287.6 | 1477.9 | 1378.0 | 1355.7 | 997.1 |
| 30° | 1257.4 | 1245.0 | 1219.2 | 1136.4 | 1053.2 | 1087.4 | 1311.9 | 1574.6 | 1491.5 | 1462.0 | 1043.7 |
| 32.5° | 1432.6 | 1440.5 | 1401.9 | 1316.7 | 1220.4 | 1165.4 | 1343.4 | 1680.1 | 1621.6 | 1584.9 | 1097.8 |
| 35° | 1636.7 | 1652.7 | 1593.3 | 1511.7 | 1399.1 | 1306.4 | 1404.7 | 1799.1 | 1786.8 | 1740.6 | 1181.4 |
| 37.5° | 1844.1 | 1853.7 | 1817.4 | 1702.8 | 1601.3 | 1485.5 | 1520.1 | 1946.0 | 1990.2 | 1950.8 | 1281.3 |
| 40° | 2018.4 | 2031.6 | 2004.9 | 1903.0 | 1794.7 | 1692.8 | 1687.7 | 2106.0 | 2232.2 | 2191.6 | 1430.1 |
| 42.5° | 2151.8 | 2161.7 | 2162.6 | 2090.5 | 1993.0 | 1946.8 | 1901.4 | 2310.2 | 2535.5 | 2488.5 | 1602.9 |
| 45° | 2320.2 | 2334.5 | 2326.1 | 2277.2 | 2204.3 | 2196.0 | 2172.5 | 2557.0 | 2898.5 | 2839.2 | 1827.0 |
| 47.5° | 2580.5 | 2590.0 | 2569.3 | 2511.6 | 2437.6 | 2450.7 | 2436.8 | 2833.6 | 3268.7 | 3217.7 | 2059.1 |
| 50° | 2761.2 | 2777.1 | 2806.6 | 2829.7 | 2775.9 | 2727.3 | 2685.9 | 3092.0 | 3620.1 | 3574.4 | 2296.3 |
| 52.5° | 2759.2 | 2785.4 | 2878.6 | 2994.8 | 3112.3 | 3097.5 | 2978.5 | 3377.3 | 3955.7 | 3899.2 | 2519.1 |
| 55° | 2573.3 | 2624.2 | 2761.2 | 2967.3 | 3292.6 | 3454.6 | 3400.4 | 3707.7 | 4245.5 | 4207.3 | 2777.5 |
| 57.5° | 2189.6 | 2220.7 | 2410.9 | 2699.1 | 3191.9 | 3622.5 | 3889.2 | 4155.5 | 4592.9 | 4575.1 | 3178.7 |
| 60° | 1472.7 | 1486.7 | 1731.4 | 2087.7 | 2717.4 | 3455.0 | 4247.5 | 4697.2 | 5020.8 | 5012.1 | 3647.2 |
| 62.5° | 843.8 | 849.8 | 1027.4 | 1327.9 | 1933.7 | 2928.0 | 4277.7 | 5365.6 | 5533.9 | 5538.7 | 4189.4 |
| 65° | 454.1 | 457.4 | 600.6 | 779.3 | 1176.6 | 2086.9 | 3846.6 | 5731.7 | 5948.7 | 5957.8 | 4525.3 |
| 66° | 392.0 | 376.9 | 478.0 | 664.3 | 936.2 | 1661.0 | 3574.0 | 5718.6 | 6028.3 | 6018.3 | 4513.4 |
| 67.5° | 298.2 | 311.6 | 381.7 | 510.7 | 693.8 | 1181.0 | 2950.7 | 5464.2 | 5967.8 | 5936.7 | 4329.8 |
| 70° | 213.4 | 218.9 | 271.9 | 364.2 | 472.5 | 648.0 | 1885.5 | 4538.4 | 5424.1 | 5382.3 | 3772.2 |
| 72.5° | 137.7 | 143.7 | 192.6 | 263.5 | 341.5 | 353.8 | 1055.6 | 3279.0 | 4181.8 | 4175.8 | 2840.8 |
| 75° | 98.3 | 103.9 | 127.4 | 188.7 | 256.7 | 218.9 | 508.3 | 2209.9 | 2658.5 | 2640.6 | 1757.4 |
| 77.5° | 71.3 | 74.1 | 85.2 | 123.4 | 183.5 | 156.8 | 235.6 | 1180.2 | 1323.5 | 1386.0 | 776.6 |
| 80° | 41.0 | 43.4 | 59.3 | 75.2 | 124.2 | 107.0 | 112.7 | 473.6 | 488.4 | 464.9 | 242.8 |
| 82.5° | 20.3 | 23.1 | 35.4 | 51.4 | 77.6 | 72.0 | 51.8 | 142.5 | 150.5 | 146.5 | 61.3 |
| 85° | 4.8 | 6.0 | 19.9 | 33.8 | 37.8 | 32.3 | 25.1 | 41.8 | 51.8 | 50.6 | 23.5 |
| 87.5° | 0.4 | 0.8 | 7.2 | 6.0 | 6.3 | 10.7 | 8.8 | 10.7 | 16.8 | 15.5 | 8.4 |
| 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° | 588.7 | 588.7 | 588.7 | 588.7 | 588.7 | 588.7 | 588.7 | 588.7 | 588.7 | 588.7 | 588.7 |
| 2.5° | 593.9 | 586.3 | 564.4 | 542.9 | 525.0 | 506.3 | 489.2 | 479.3 | 475.3 | 470.9 | 472.9 |
| 5° | 602.2 | 583.9 | 539.7 | 501.5 | 464.1 | 432.3 | 406.8 | 390.5 | 382.5 | 381.3 | 379.4 |
| 7.5° | 613.4 | 581.9 | 513.5 | 453.7 | 404.8 | 369.3 | 340.3 | 316.8 | 309.7 | 303.3 | 298.2 |
| 10° | 626.9 | 578.3 | 480.8 | 403.6 | 351.5 | 306.9 | 268.6 | 240.9 | 226.5 | 222.5 | 225.3 |
| 12.5° | 641.3 | 571.6 | 446.6 | 357.4 | 297.3 | 240.4 | 205.0 | 191.1 | 187.1 | 185.5 | 185.9 |
| 15° | 655.6 | 563.2 | 410.8 | 312.9 | 236.9 | 191.8 | 175.5 | 171.9 | 170.4 | 169.6 | 168.7 |
| 17.5° | 668.7 | 549.7 | 370.6 | 269.5 | 191.8 | 164.0 | 158.0 | 154.8 | 151.7 | 150.5 | 148.5 |
| 20° | 684.3 | 534.2 | 334.3 | 220.9 | 162.4 | 148.5 | 141.3 | 135.3 | 130.5 | 127.4 | 127.0 |
| 22.5° | 699.0 | 514.3 | 296.5 | 183.1 | 148.1 | 133.3 | 121.8 | 115.4 | 109.9 | 105.9 | 107.0 |
| 25° | 706.9 | 490.0 | 262.7 | 159.6 | 134.9 | 118.2 | 105.5 | 97.5 | 91.5 | 89.6 | 89.2 |
| 27.5° | 706.9 | 460.2 | 229.7 | 146.1 | 123.0 | 104.7 | 91.5 | 84.0 | 80.0 | 77.2 | 77.6 |
| 30° | 701.3 | 427.1 | 199.0 | 135.7 | 112.7 | 92.7 | 80.4 | 73.6 | 70.5 | 68.4 | 68.0 |
| 32.5° | 696.9 | 395.6 | 172.7 | 125.7 | 101.9 | 82.4 | 71.6 | 66.5 | 63.3 | 61.3 | 61.3 |
| 35° | 703.8 | 368.6 | 152.5 | 115.8 | 91.9 | 74.5 | 64.9 | 60.1 | 56.9 | 55.4 | 55.0 |
| 37.5° | 721.6 | 343.9 | 136.9 | 105.1 | 82.8 | 67.7 | 60.1 | 54.5 | 51.4 | 49.3 | 48.5 |
| 40° | 765.9 | 330.0 | 125.4 | 95.1 | 74.1 | 62.1 | 54.5 | 49.3 | 45.4 | 43.4 | 43.0 |
| 42.5° | 836.7 | 330.3 | 114.2 | 86.0 | 67.3 | 57.3 | 49.7 | 43.8 | 39.4 | 37.4 | 37.0 |
| 45° | 943.4 | 345.5 | 105.5 | 77.2 | 61.3 | 52.1 | 44.6 | 38.2 | 34.2 | 32.3 | 32.3 |
| 47.5° | 1071.1 | 375.0 | 98.0 | 69.7 | 55.7 | 47.4 | 39.4 | 33.0 | 29.0 | 27.5 | 27.5 |
| 50° | 1209.7 | 413.2 | 90.4 | 61.7 | 51.0 | 42.2 | 33.8 | 28.7 | 25.4 | 24.3 | 24.3 |
| 52.5° | 1350.9 | 459.3 | 82.8 | 55.4 | 45.8 | 36.6 | 29.0 | 25.4 | 22.7 | 21.9 | 21.5 |
| 55° | 1536.4 | 518.3 | 74.9 | 48.5 | 40.2 | 31.5 | 25.8 | 22.3 | 19.1 | 17.9 | 17.5 |
| 57.5° | 1821.8 | 607.0 | 66.1 | 42.6 | 33.0 | 26.3 | 22.3 | 18.7 | 15.1 | 13.2 | 12.8 |
| 60° | 2166.1 | 715.3 | 56.9 | 37.4 | 26.7 | 21.5 | 17.9 | 14.3 | 11.1 | 8.8 | 8.4 |
| 62.5° | 2488.5 | 784.1 | 48.2 | 31.5 | 21.1 | 16.3 | 12.8 | 10.7 | 8.0 | 5.6 | 5.2 |
| 65° | 2631.0 | 761.1 | 39.8 | 25.4 | 16.8 | 11.5 | 8.4 | 7.6 | 4.8 | 2.4 | 2.0 |
| 66° | 2583.7 | 726.8 | 36.6 | 23.1 | 15.1 | 9.9 | 7.2 | 6.3 | 3.6 | 1.2 | 1.2 |
| 67.5° | 2444.0 | 646.1 | 31.9 | 19.9 | 13.2 | 8.0 | 5.6 | 4.8 | 2.0 | 0.4 | 0.0 |
| 70° | 2094.1 | 522.7 | 25.1 | 14.7 | 9.6 | 5.6 | 3.2 | 2.4 | 1.2 | 0.0 | 0.0 |
| 72.5° | 1608.4 | 389.3 | 19.9 | 11.1 | 6.7 | 3.2 | 1.6 | 0.8 | 1.2 | 0.0 | 0.0 |
| 75° | 985.6 | 222.5 | 15.5 | 8.4 | 4.4 | 2.0 | 1.2 | 0.0 | 1.2 | 0.4 | 0.0 |
| 77.5° | 437.5 | 99.9 | 10.3 | 5.6 | 3.2 | 1.6 | 0.8 | 0.0 | 0.8 | 0.4 | 0.0 |
| 80° | 110.6 | 32.7 | 6.0 | 4.0 | 2.4 | 1.2 | 0.4 | 0.0 | 0.8 | 0.8 | 0.4 |
| 82.5° | 30.2 | 12.0 | 4.4 | 3.2 | 2.0 | 1.2 | 0.4 | 0.0 | 0.8 | 0.8 | 0.8 |
| 85° | 12.0 | 5.6 | 4.0 | 3.2 | 2.4 | 1.2 | 0.4 | 0.0 | 0.8 | 0.8 | 0.8 |
| 87.5° | 5.6 | 4.0 | 4.0 | 3.6 | 2.8 | 1.2 | 0.4 | 0.0 | 0.8 | 0.4 | 0.8 |
| 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)