

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: P233915

Luminaire Tested: **VERD-G-C02-D-U-T2-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233915
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-32)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-C02-D-U-T2-8027-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1175mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13674 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 138
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: 28.75 FT

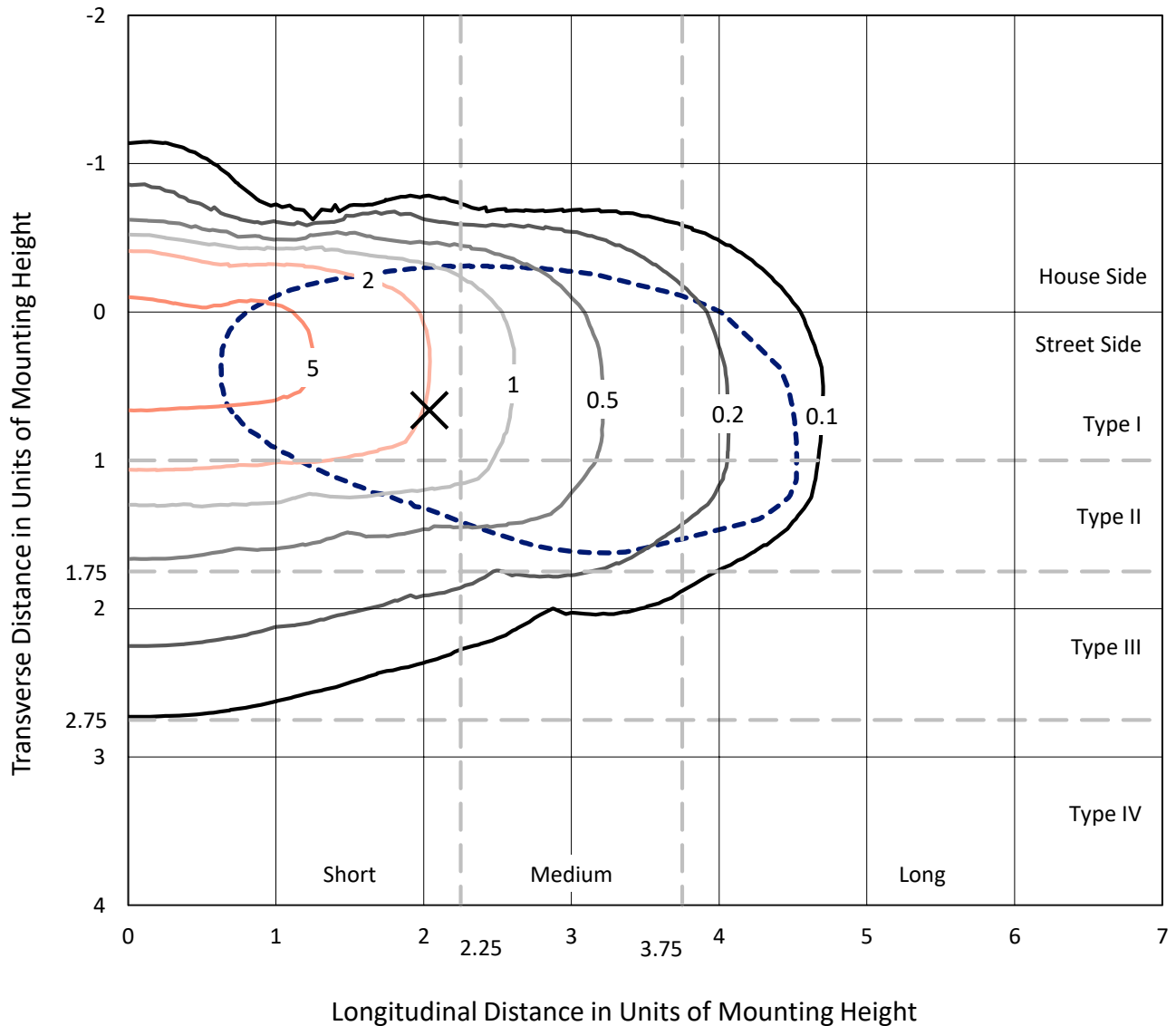


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

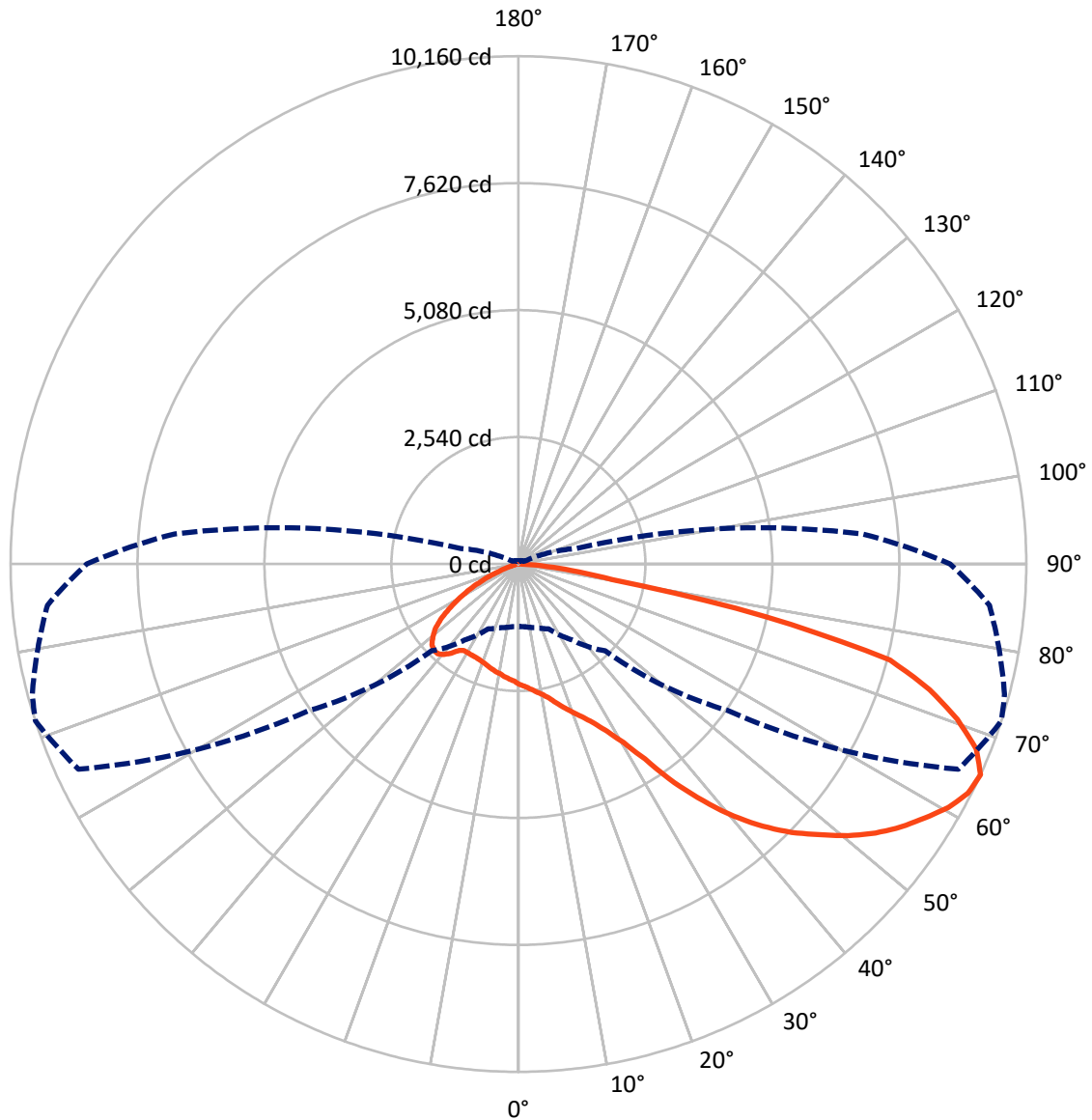


Based on 20 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2841.5 | 0.0 | 2841.5 |
| | % Fixture | 20.8 | 0.0 | 20.8 |
| Street Side | Lumens | 10832.5 | 0.0 | 10832.5 |
| | % Fixture | 79.2 | 0.0 | 79.2 |
| Total | Lumens | 13674.0 | 0.0 | 13674.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 231.0 | 1.7 |
| 10°-20° | 701.1 | 5.1 |
| 20°-30° | 1171.6 | 8.6 |
| 30°-40° | 1733.1 | 12.7 |
| 40°-50° | 2395.9 | 17.5 |
| 50°-60° | 2803.7 | 20.5 |
| 60°-70° | 2786.8 | 20.4 |
| 70°-80° | 1669.1 | 12.2 |
| 80°-90° | 181.7 | 1.3 |
| 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° | 13674.0 | 100.0 |
| 0°-180° | 13674.0 | 100.0 |



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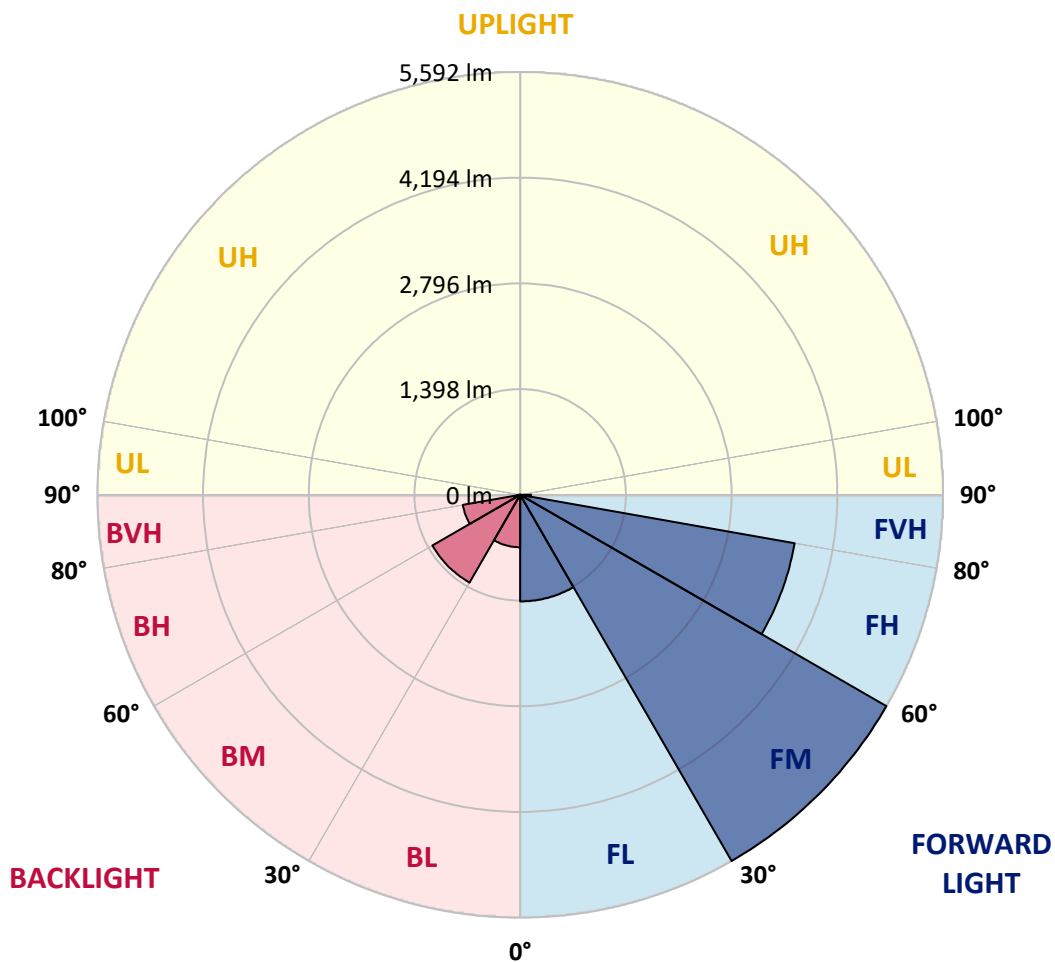
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1410.1 | 10.3 | | | |
| FM (30°-60°) | 5592.3 | 40.9 | | | |
| FH (60°-80°) | 3686.5 | 27.0 | | | G2/5000 |
| FVH (80°-90°) | 143.6 | 1.1 | | | G2/225 |
| BL (0°-30°) | 693.7 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 1340.4 | 9.8 | B2/2500 | | |
| BH (60°-80°) | 769.3 | 5.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 38.1 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 72° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0° | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 |
| 2.5° | 2613.0 | 2615.2 | 2616.3 | 2575.0 | 2552.7 | 2527.1 | 2502.5 | 2475.7 | 2447.8 | 2437.8 | 2401.0 |
| 5° | 2773.6 | 2775.9 | 2769.2 | 2731.2 | 2690.0 | 2652.0 | 2605.2 | 2557.2 | 2510.3 | 2496.9 | 2434.5 |
| 7.5° | 2928.7 | 2927.6 | 2922.0 | 2874.0 | 2822.7 | 2772.5 | 2706.7 | 2642.0 | 2580.6 | 2559.4 | 2466.8 |
| 10° | 3057.0 | 3059.3 | 3062.6 | 3011.3 | 2961.1 | 2900.8 | 2820.5 | 2724.5 | 2654.3 | 2620.8 | 2500.3 |
| 12.5° | 3197.6 | 3190.9 | 3199.8 | 3149.6 | 3080.4 | 3025.8 | 2953.3 | 2840.6 | 2756.9 | 2714.5 | 2565.0 |
| 15° | 3358.3 | 3358.3 | 3346.0 | 3304.7 | 3234.4 | 3167.5 | 3095.0 | 2991.2 | 2890.8 | 2826.1 | 2652.0 |
| 17.5° | 3468.7 | 3462.0 | 3458.7 | 3423.0 | 3362.7 | 3304.7 | 3248.9 | 3142.9 | 3033.6 | 2954.4 | 2733.5 |
| 20° | 3515.6 | 3517.8 | 3533.4 | 3507.8 | 3475.4 | 3440.8 | 3379.5 | 3296.9 | 3176.4 | 3091.6 | 2820.5 |
| 22.5° | 3605.9 | 3608.2 | 3627.1 | 3609.3 | 3600.4 | 3591.4 | 3534.5 | 3462.0 | 3333.7 | 3252.3 | 2929.8 |
| 25° | 3611.5 | 3613.8 | 3665.1 | 3694.1 | 3739.8 | 3761.0 | 3722.0 | 3659.5 | 3529.0 | 3449.7 | 3092.7 |
| 27.5° | 3628.3 | 3635.0 | 3687.4 | 3767.7 | 3888.2 | 3930.6 | 3908.3 | 3906.1 | 3795.6 | 3711.9 | 3304.7 |
| 30° | 3613.8 | 3620.4 | 3696.3 | 3807.9 | 3975.2 | 4100.2 | 4125.9 | 4191.7 | 4147.1 | 4084.6 | 3599.3 |
| 32.5° | 3511.1 | 3535.7 | 3626.0 | 3803.4 | 4050.0 | 4276.5 | 4359.0 | 4584.4 | 4651.4 | 4658.1 | 4190.6 |
| 35° | 3324.8 | 3338.2 | 3502.2 | 3752.1 | 4100.2 | 4442.7 | 4670.3 | 5086.5 | 5369.9 | 5357.6 | 4845.5 |
| 37.5° | 3183.1 | 3187.6 | 3356.0 | 3665.1 | 4128.1 | 4621.2 | 5025.1 | 5691.2 | 6017.0 | 6031.5 | 5436.8 |
| 40° | 3001.2 | 3033.6 | 3195.4 | 3560.2 | 4112.5 | 4771.9 | 5377.7 | 6254.6 | 6634.0 | 6618.3 | 5955.6 |
| 42.5° | 2831.6 | 2850.6 | 3011.3 | 3396.2 | 4055.6 | 4886.8 | 5723.5 | 6800.2 | 7172.8 | 7121.5 | 6453.2 |
| 45° | 2655.4 | 2687.7 | 2835.0 | 3184.2 | 3942.9 | 4951.5 | 6037.1 | 7317.9 | 7659.3 | 7595.7 | 6891.7 |
| 47.5° | 2479.1 | 2502.5 | 2658.7 | 2990.1 | 3730.9 | 4949.2 | 6345.0 | 7803.2 | 8091.1 | 8046.4 | 7306.7 |
| 50° | 1886.6 | 1938.0 | 2348.5 | 2787.0 | 3433.0 | 4855.5 | 6593.8 | 8264.0 | 8544.0 | 8474.9 | 7711.7 |
| 52.5° | 1729.3 | 1746.1 | 1861.0 | 2551.6 | 3115.0 | 4632.4 | 6787.9 | 8696.9 | 8943.5 | 8864.2 | 8093.3 |
| 55° | 1634.5 | 1654.6 | 1701.4 | 2074.1 | 2854.0 | 4265.3 | 6868.3 | 9100.8 | 9284.9 | 9204.5 | 8433.6 |
| 57.5° | 1508.4 | 1528.5 | 1621.1 | 1786.2 | 2581.7 | 3706.4 | 6750.0 | 9458.9 | 9587.2 | 9499.1 | 8749.3 |
| 60° | 1421.4 | 1430.3 | 1519.6 | 1649.0 | 2283.8 | 3141.8 | 6355.0 | 9750.1 | 9884.0 | 9779.1 | 9061.7 |
| 62.5° | 1341.1 | 1351.1 | 1414.7 | 1543.0 | 2037.3 | 2727.9 | 5740.3 | 9821.5 | 10094.9 | 10013.4 | 9347.3 |
| 65° | 1248.5 | 1257.4 | 1315.4 | 1429.2 | 1846.5 | 2457.9 | 5106.6 | 9712.2 | 10159.6 | 10067.0 | 9457.8 |
| 67.5° | 1125.7 | 1138.0 | 1183.8 | 1286.4 | 1596.6 | 2152.2 | 4163.8 | 9510.2 | 9876.2 | 9780.2 | 9231.3 |
| 70° | 974.0 | 979.6 | 1034.3 | 1126.9 | 1348.9 | 1867.7 | 3265.7 | 8791.7 | 9315.0 | 9209.0 | 8593.1 |
| 72.5° | 786.6 | 796.6 | 855.7 | 952.8 | 1107.9 | 1538.6 | 2332.9 | 7596.8 | 8604.3 | 8564.1 | 7663.7 |
| 75° | 525.5 | 564.5 | 705.1 | 803.3 | 916.0 | 1201.6 | 1566.4 | 5331.9 | 7681.6 | 7712.8 | 6546.9 |
| 77.5° | 100.4 | 103.8 | 295.7 | 439.6 | 535.5 | 734.1 | 969.5 | 2619.7 | 5063.0 | 5610.9 | 4937.0 |
| 80° | 65.8 | 71.4 | 126.1 | 307.9 | 354.8 | 363.7 | 497.6 | 1148.1 | 1907.8 | 2413.3 | 2847.3 |
| 82.5° | 34.6 | 41.3 | 75.9 | 178.5 | 162.9 | 90.4 | 162.9 | 592.4 | 1057.7 | 1215.0 | 1435.9 |
| 85° | 14.5 | 16.7 | 36.8 | 61.4 | 45.7 | 37.9 | 37.9 | 236.5 | 468.6 | 542.2 | 563.4 |
| 87.5° | 2.2 | 2.2 | 7.8 | 11.2 | 6.7 | 4.5 | 3.3 | 1.1 | 1.1 | 1.1 | 1.1 |
| 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° | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 | 2409.9 |
| 2.5° | 2401.0 | 2380.9 | 2353.0 | 2320.7 | 2297.2 | 2285.0 | 2274.9 | 2248.1 | 2239.2 | 2257.1 | 2252.6 |
| 5° | 2411.0 | 2387.6 | 2324.0 | 2271.6 | 2219.1 | 2186.8 | 2151.1 | 2104.2 | 2084.1 | 2095.3 | 2091.9 |
| 7.5° | 2417.7 | 2388.7 | 2293.9 | 2212.4 | 2124.3 | 2062.9 | 2016.1 | 1954.7 | 1924.6 | 1935.7 | 1922.4 |
| 10° | 2427.8 | 2384.3 | 2258.2 | 2150.0 | 2035.0 | 1945.8 | 1876.6 | 1805.2 | 1774.0 | 1782.9 | 1771.7 |
| 12.5° | 2470.2 | 2399.9 | 2241.4 | 2096.4 | 1955.8 | 1844.3 | 1757.2 | 1681.4 | 1636.7 | 1645.7 | 1636.7 |
| 15° | 2539.3 | 2431.1 | 2216.9 | 2028.3 | 1872.1 | 1745.0 | 1644.5 | 1557.5 | 1506.2 | 1518.5 | 1507.3 |
| 17.5° | 2611.9 | 2469.0 | 2194.6 | 1952.5 | 1782.9 | 1641.2 | 1536.3 | 1462.7 | 1380.1 | 1387.9 | 1371.2 |
| 20° | 2674.3 | 2504.7 | 2182.3 | 1881.1 | 1699.2 | 1530.7 | 1404.7 | 1354.5 | 1240.7 | 1211.7 | 1192.7 |
| 22.5° | 2761.4 | 2557.2 | 2172.3 | 1823.1 | 1595.5 | 1420.3 | 1270.8 | 1177.1 | 1054.3 | 993.0 | 987.4 |
| 25° | 2885.2 | 2635.3 | 2171.2 | 1777.3 | 1501.7 | 1304.3 | 1095.6 | 938.3 | 830.1 | 757.6 | 747.5 |
| 27.5° | 3042.5 | 2739.0 | 2183.4 | 1731.6 | 1408.0 | 1158.1 | 880.3 | 706.2 | 609.2 | 553.4 | 543.3 |
| 30° | 3269.0 | 2875.2 | 2199.0 | 1679.1 | 1303.1 | 968.4 | 656.0 | 519.9 | 439.6 | 399.4 | 391.6 |
| 32.5° | 3754.3 | 3224.4 | 2222.5 | 1624.5 | 1177.1 | 729.7 | 476.4 | 377.1 | 315.7 | 291.2 | 303.5 |
| 35° | 4339.0 | 3698.5 | 2327.4 | 1554.2 | 1011.9 | 519.9 | 343.6 | 268.9 | 226.5 | 232.1 | 238.8 |
| 37.5° | 4850.0 | 4151.5 | 2562.8 | 1463.8 | 791.0 | 381.6 | 236.5 | 200.8 | 200.8 | 218.7 | 234.3 |
| 40° | 5331.9 | 4559.9 | 2773.6 | 1341.1 | 554.5 | 263.3 | 183.0 | 186.3 | 183.0 | 194.1 | 190.8 |
| 42.5° | 5787.1 | 4947.0 | 2938.8 | 1194.9 | 362.6 | 181.9 | 166.2 | 172.9 | 167.4 | 169.6 | 159.5 |
| 45° | 6217.8 | 5347.6 | 3030.2 | 979.6 | 241.0 | 158.4 | 152.9 | 164.0 | 162.9 | 160.7 | 150.6 |
| 47.5° | 6616.1 | 5700.1 | 3076.0 | 706.2 | 166.2 | 142.8 | 143.9 | 151.7 | 155.1 | 152.9 | 147.3 |
| 50° | 7006.6 | 6051.6 | 3034.7 | 422.9 | 149.5 | 130.5 | 138.3 | 138.3 | 145.0 | 132.8 | 128.3 |
| 52.5° | 7380.4 | 6404.1 | 2904.2 | 256.6 | 137.2 | 121.6 | 128.3 | 126.1 | 129.4 | 117.1 | 114.9 |
| 55° | 7731.8 | 6666.3 | 2646.4 | 201.9 | 129.4 | 116.0 | 117.1 | 119.4 | 113.8 | 100.4 | 104.9 |
| 57.5° | 8103.3 | 6889.5 | 2287.2 | 183.0 | 126.1 | 108.2 | 110.5 | 109.3 | 100.4 | 88.1 | 88.1 |
| 60° | 8409.0 | 7051.2 | 1926.8 | 166.2 | 123.8 | 106.0 | 98.2 | 96.0 | 82.6 | 75.9 | 74.8 |
| 62.5° | 8619.9 | 7097.0 | 1575.4 | 148.4 | 117.1 | 98.2 | 88.1 | 81.4 | 69.2 | 62.5 | 60.2 |
| 65° | 8636.6 | 6901.7 | 1199.4 | 133.9 | 110.5 | 91.5 | 81.4 | 66.9 | 54.7 | 49.1 | 46.9 |
| 67.5° | 8294.1 | 6359.5 | 845.7 | 122.7 | 99.3 | 84.8 | 71.4 | 53.6 | 43.5 | 39.0 | 37.9 |
| 70° | 7577.8 | 5685.6 | 517.7 | 107.1 | 90.4 | 79.2 | 73.6 | 43.5 | 35.7 | 30.1 | 30.1 |
| 72.5° | 6649.6 | 4924.7 | 303.5 | 91.5 | 75.9 | 63.6 | 49.1 | 36.8 | 30.1 | 23.4 | 23.4 |
| 75° | 5699.0 | 3909.4 | 186.3 | 69.2 | 55.8 | 50.2 | 37.9 | 31.2 | 24.5 | 17.9 | 17.9 |
| 77.5° | 4103.5 | 2886.3 | 145.0 | 44.6 | 34.6 | 35.7 | 27.9 | 24.5 | 20.1 | 14.5 | 14.5 |
| 80° | 2518.1 | 1757.2 | 103.8 | 30.1 | 20.1 | 20.1 | 20.1 | 19.0 | 14.5 | 12.3 | 11.2 |
| 82.5° | 1276.4 | 803.3 | 51.3 | 17.9 | 12.3 | 12.3 | 12.3 | 13.4 | 11.2 | 8.9 | 8.9 |
| 85° | 448.5 | 225.4 | 15.6 | 8.9 | 7.8 | 7.8 | 6.7 | 6.7 | 5.6 | 4.5 | 4.5 |
| 87.5° | 1.1 | 2.2 | 2.2 | 3.3 | 4.5 | 4.5 | 3.3 | 2.2 | 1.1 | 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)