

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: P368453

Luminaire Tested: **PMM-SA4C-727-U-SL3-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-19)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4C-727-U-SL3-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16524 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

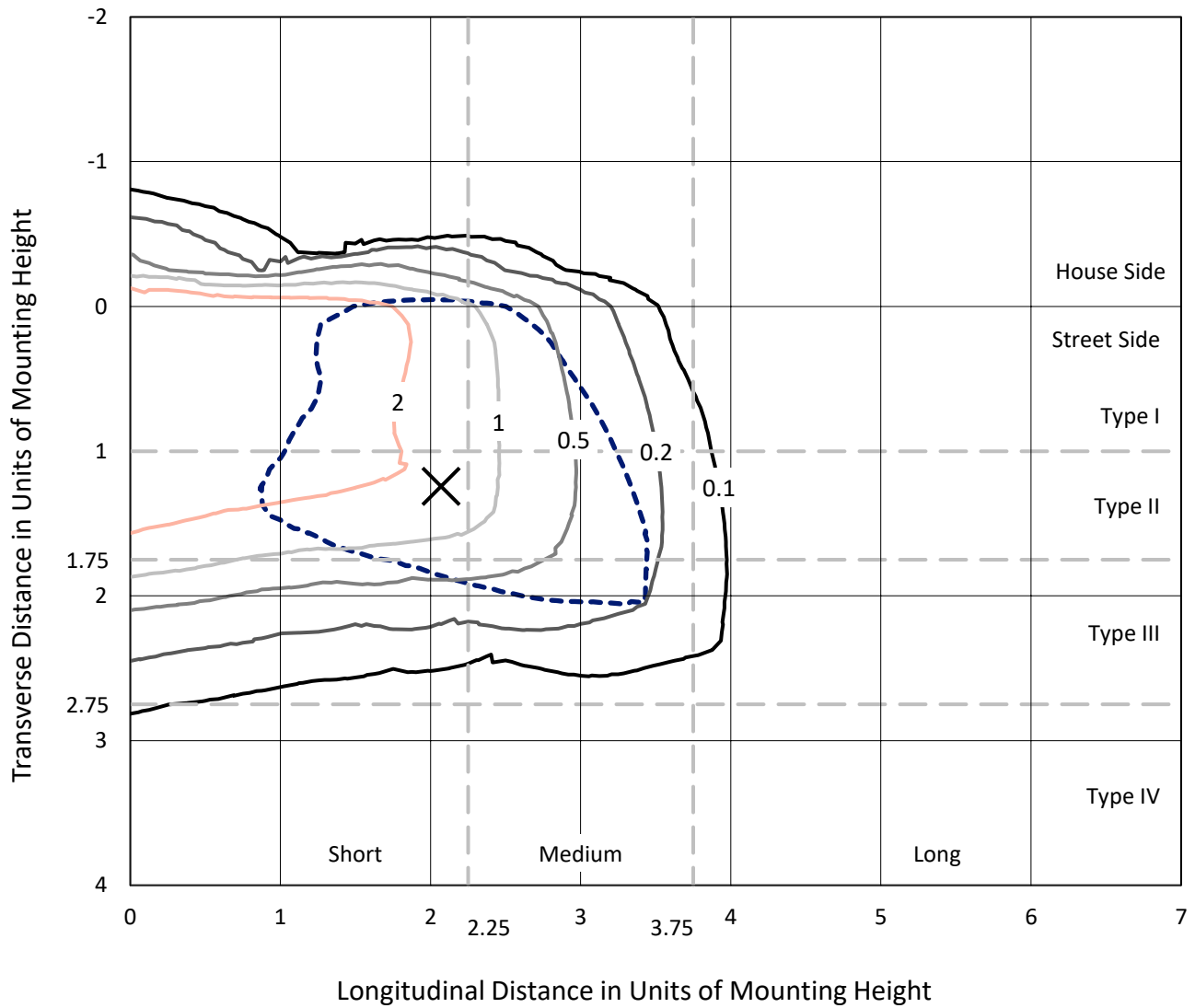
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

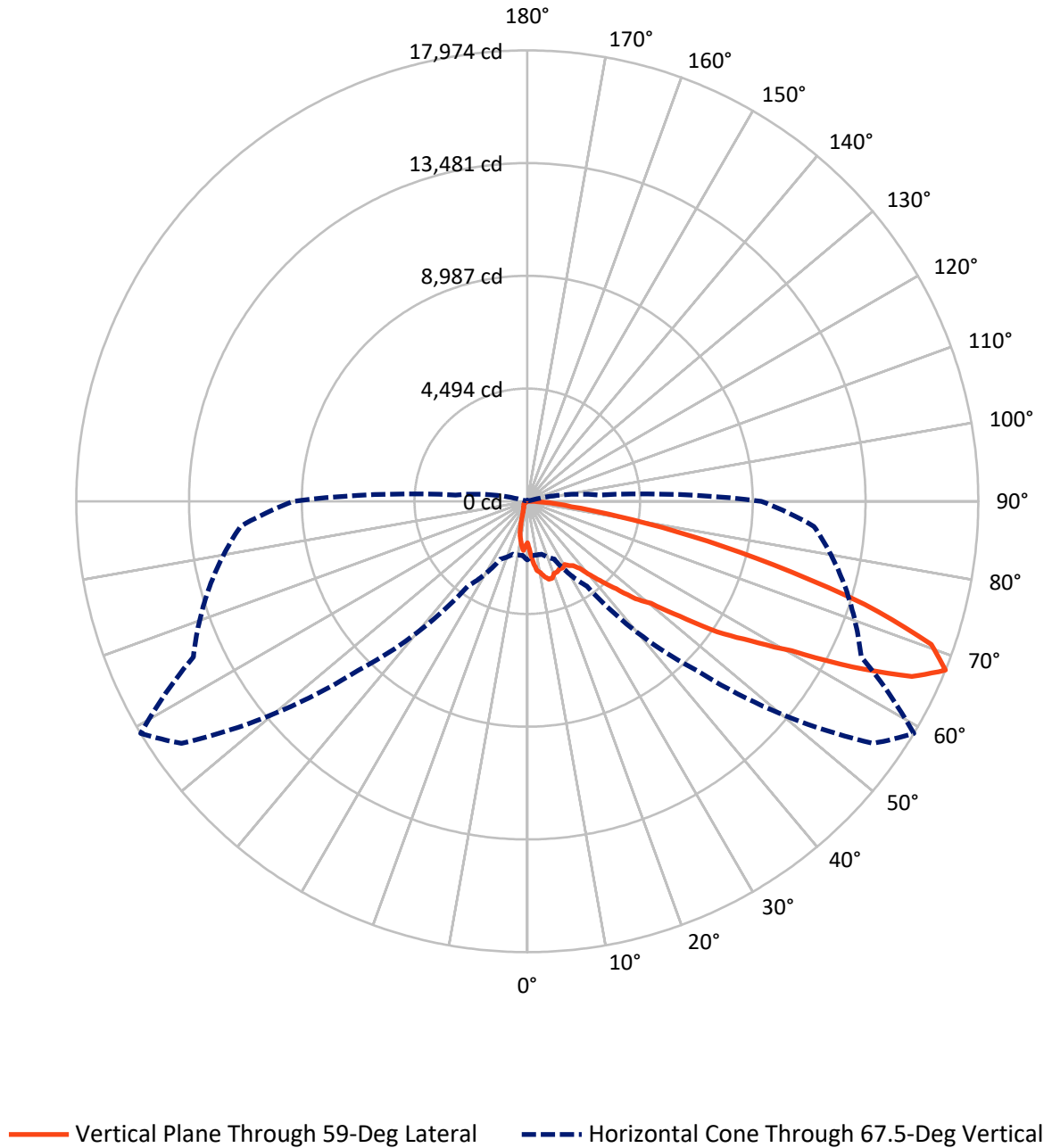
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1405.3 | 0.0 | 1405.3 |
| | % Fixture | 8.5 | 0.0 | 8.5 |
| Street Side | Lumens | 15118.7 | 0.0 | 15118.7 |
| | % Fixture | 91.5 | 0.0 | 91.5 |
| Total | Lumens | 16524.0 | 0.0 | 16524.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 201.0 | 1.2 |
| 10°-20° | 566.0 | 3.4 |
| 20°-30° | 841.9 | 5.1 |
| 30°-40° | 1298.9 | 7.9 |
| 40°-50° | 2318.1 | 14.0 |
| 50°-60° | 4125.1 | 25.0 |
| 60°-70° | 4804.3 | 29.1 |
| 70°-80° | 2136.6 | 12.9 |
| 80°-90° | 232.0 | 1.4 |
| 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° | 16524.0 | 100.0 |
| 0°-180° | 16524.0 | 100.0 |

Coefficient of Utilization

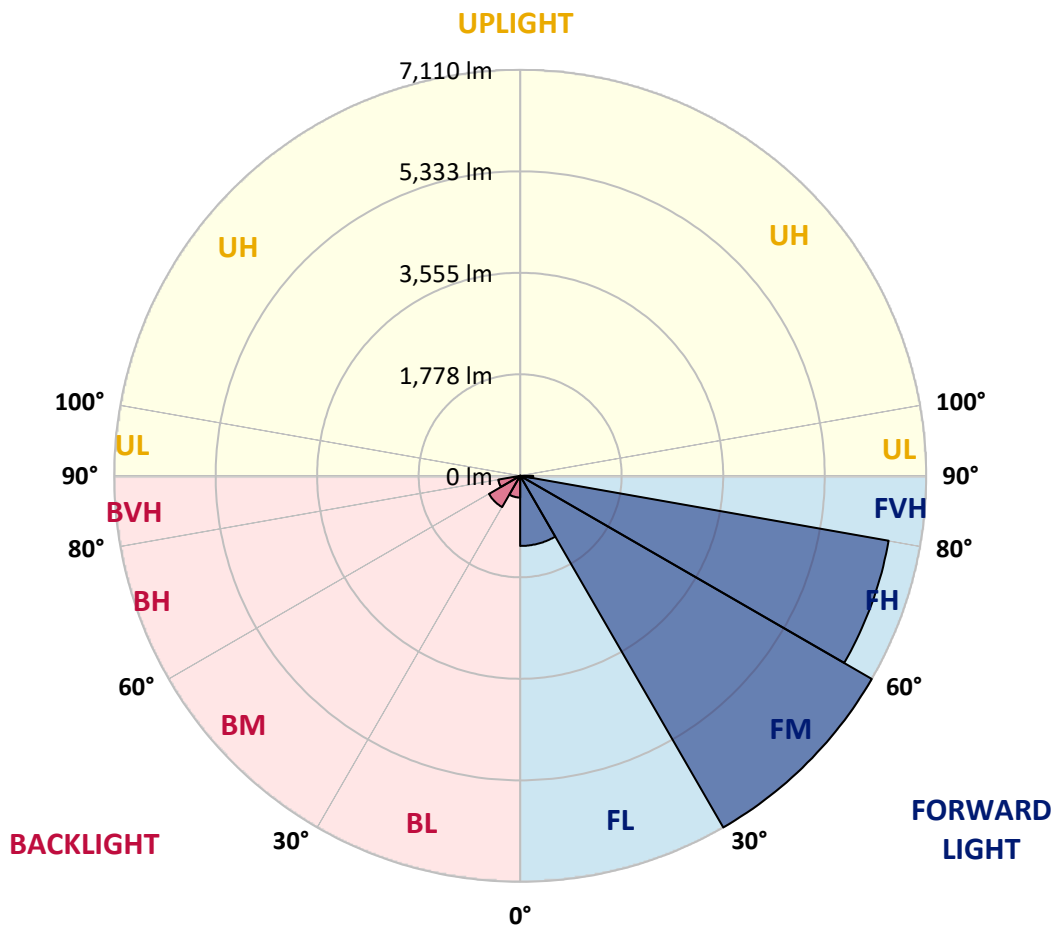


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1228.9 | 7.4 | | | |
| FM (30°-60°) | 7110.3 | 43.0 | | | |
| FH (60°-80°) | 6551.6 | 39.6 | | | G3/7500 |
| FVH (80°-90°) | 227.9 | 1.4 | | | G3/500 |
| BL (0°-30°) | 380.0 | 2.3 | B1/500 | | |
| BM (30°-60°) | 631.8 | 3.8 | B1/1000 | | |
| BH (60°-80°) | 389.3 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.1 | 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-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 1653.3 | 1653.3 | 1653.3 | 1653.3 | 1653.3 | 1653.3 | 1653.3 | 1653.3 | 1653.3 | 1653.3 | 1653.3 |
| 2.5° | 2155.3 | 2074.1 | 1958.7 | 1993.0 | 2023.9 | 2053.2 | 2004.7 | 1977.1 | 1963.7 | 1844.9 | 1993.8 |
| 5° | 2646.4 | 2545.2 | 2492.5 | 2479.1 | 2445.6 | 2371.2 | 2495.0 | 2439.8 | 2458.2 | 2481.6 | 2530.1 |
| 7.5° | 2796.2 | 2750.2 | 2674.0 | 2702.5 | 2575.3 | 2564.4 | 2735.9 | 2783.6 | 2846.4 | 2803.7 | 2862.3 |
| 10° | 2719.2 | 2639.7 | 2675.7 | 2665.7 | 2660.6 | 2772.8 | 2893.2 | 2895.7 | 2989.5 | 3034.6 | 2836.3 |
| 12.5° | 2566.9 | 2576.1 | 2705.0 | 2694.9 | 2862.3 | 3086.5 | 3114.1 | 3084.8 | 3238.0 | 3159.3 | 3129.2 |
| 15° | 2668.2 | 2743.5 | 2672.4 | 2696.6 | 2756.0 | 3036.3 | 3134.2 | 3224.6 | 3369.3 | 3416.2 | 3212.9 |
| 17.5° | 2790.3 | 2797.9 | 2668.2 | 2638.1 | 2787.8 | 2918.3 | 3149.3 | 3223.7 | 3238.0 | 3648.8 | 3401.1 |
| 20° | 2724.2 | 2788.7 | 2633.9 | 2443.9 | 2676.5 | 2853.9 | 3088.2 | 3064.8 | 3160.1 | 3717.4 | 3443.8 |
| 22.5° | 2899.9 | 2807.9 | 2609.6 | 2466.5 | 2545.2 | 2706.7 | 2905.0 | 3058.1 | 3201.1 | 3553.4 | 3499.0 |
| 25° | 2916.7 | 2883.2 | 2706.7 | 2579.5 | 2566.1 | 2607.1 | 2883.2 | 2981.9 | 3206.2 | 3700.6 | 3452.1 |
| 27.5° | 3104.9 | 3066.4 | 2705.0 | 2717.5 | 2592.0 | 2465.7 | 2777.8 | 3009.5 | 3297.4 | 3611.1 | 3551.7 |
| 30° | 3347.6 | 3350.9 | 2884.9 | 2924.2 | 2745.1 | 2541.8 | 2864.0 | 2927.5 | 3359.3 | 3754.2 | 3625.3 |
| 32.5° | 3593.5 | 3694.8 | 3240.5 | 3032.1 | 2976.1 | 2830.5 | 2756.9 | 3050.5 | 3291.5 | 3998.5 | 3809.4 |
| 35° | 3967.5 | 4036.1 | 3533.3 | 3346.7 | 3126.7 | 2961.0 | 3048.0 | 3153.4 | 3535.0 | 4322.3 | 4051.2 |
| 37.5° | 4600.9 | 4477.1 | 4058.7 | 3734.1 | 3681.4 | 3437.1 | 3480.6 | 3386.0 | 3783.5 | 4703.8 | 4529.8 |
| 40° | 4957.3 | 4845.2 | 4410.1 | 4252.0 | 3915.7 | 3953.3 | 3816.1 | 3871.3 | 4144.1 | 5101.2 | 4965.7 |
| 42.5° | 5328.8 | 5221.7 | 4840.2 | 4728.1 | 4407.6 | 4252.0 | 4190.1 | 4388.4 | 4697.1 | 5763.1 | 5590.7 |
| 45° | 5702.0 | 5430.1 | 5268.6 | 5324.6 | 5180.7 | 4872.8 | 4800.9 | 4977.4 | 5301.2 | 6576.3 | 6250.0 |
| 47.5° | 6016.6 | 5787.3 | 5666.0 | 5640.1 | 5584.0 | 6011.5 | 5718.7 | 5796.5 | 5939.6 | 7295.8 | 7071.6 |
| 50° | 6583.8 | 6357.9 | 6168.0 | 6115.3 | 6388.0 | 6994.6 | 6542.8 | 6392.2 | 6678.4 | 8165.2 | 8023.8 |
| 52.5° | 7402.9 | 7115.1 | 6813.1 | 6813.9 | 7328.5 | 7661.5 | 7875.7 | 7611.3 | 7664.8 | 9121.5 | 9058.7 |
| 55° | 8061.4 | 7695.8 | 7445.6 | 7643.1 | 8410.3 | 8596.9 | 9414.3 | 9182.6 | 9113.1 | 10008.4 | 9931.4 |
| 57.5° | 8151.8 | 7713.4 | 7594.5 | 7940.9 | 8991.0 | 10182.4 | 11061.7 | 10482.8 | 10376.5 | 10750.5 | 10903.6 |
| 60° | 7308.4 | 6843.2 | 6932.7 | 7490.0 | 9180.1 | 11148.8 | 12574.5 | 12101.7 | 11426.5 | 11619.8 | 11725.2 |
| 62.5° | 5451.0 | 5079.5 | 5330.5 | 6068.4 | 8451.3 | 11796.3 | 14325.6 | 14544.8 | 12644.7 | 12272.4 | 12249.8 |
| 65° | 3536.6 | 3304.0 | 3468.9 | 4073.8 | 6395.6 | 11722.7 | 15890.2 | 16840.7 | 13604.4 | 12804.5 | 12414.7 |
| 67.5° | 2339.4 | 2162.8 | 2186.2 | 2544.3 | 4135.7 | 9534.0 | 16825.6 | 17974.4 | 14683.7 | 13106.6 | 11470.0 |
| 70° | 1743.6 | 1604.8 | 1613.1 | 1807.2 | 2454.8 | 6287.6 | 15521.2 | 17080.0 | 15077.8 | 12059.9 | 9257.9 |
| 72.5° | 1257.5 | 1164.7 | 1242.5 | 1458.3 | 1956.2 | 3325.0 | 11568.8 | 14066.3 | 13147.6 | 9512.2 | 6237.4 |
| 75° | 871.0 | 809.9 | 937.1 | 1219.9 | 1785.5 | 2064.1 | 7644.7 | 10125.5 | 9215.2 | 5968.0 | 2819.6 |
| 77.5° | 482.8 | 464.4 | 647.6 | 994.0 | 1620.6 | 1691.8 | 4682.9 | 6653.3 | 5111.3 | 2139.4 | 671.0 |
| 80° | 210.8 | 204.1 | 313.8 | 746.3 | 1362.1 | 1528.6 | 2636.4 | 3688.9 | 2010.5 | 381.5 | 216.7 |
| 82.5° | 90.4 | 87.0 | 133.9 | 449.3 | 989.8 | 1278.4 | 1625.7 | 1775.4 | 691.9 | 118.0 | 123.0 |
| 85° | 15.9 | 17.6 | 53.5 | 236.8 | 602.4 | 649.3 | 1177.2 | 1050.9 | 348.1 | 56.1 | 87.9 |
| 87.5° | 0.0 | 0.0 | 8.4 | 46.0 | 113.0 | 185.7 | 510.4 | 368.1 | 66.1 | 18.4 | 15.1 |
| 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° | 1653.3 | 1653.3 | 1653.3 | 1653.3 | 1653.3 | 1653.3 | 1653.3 | 1653.3 | 1653.3 | 1653.3 | 1653.3 |
| 2.5° | 2014.7 | 1967.9 | 1789.7 | 1767.1 | 1742.8 | 1706.8 | 1693.4 | 1616.5 | 1606.4 | 1705.2 | 1705.2 |
| 5° | 2507.5 | 2340.2 | 2170.3 | 2036.5 | 1916.8 | 1751.2 | 1704.3 | 1655.8 | 1616.5 | 1606.4 | 1637.4 |
| 7.5° | 2767.7 | 2563.6 | 2296.7 | 1956.2 | 1680.1 | 1439.9 | 1339.5 | 1269.2 | 1190.6 | 1214.0 | 1226.6 |
| 10° | 2753.5 | 2536.8 | 2196.3 | 1758.7 | 1452.5 | 1187.2 | 932.1 | 783.1 | 700.3 | 659.3 | 654.3 |
| 12.5° | 2893.2 | 2689.1 | 2128.5 | 1601.4 | 1210.7 | 844.2 | 586.5 | 480.3 | 419.2 | 420.0 | 415.0 |
| 15° | 2974.4 | 2751.8 | 2049.9 | 1402.3 | 852.6 | 543.0 | 406.6 | 383.2 | 374.8 | 384.0 | 379.0 |
| 17.5° | 3117.5 | 2817.9 | 1871.7 | 1105.3 | 586.5 | 410.0 | 374.0 | 364.8 | 375.7 | 394.9 | 389.9 |
| 20° | 3106.6 | 2703.3 | 1618.1 | 778.9 | 433.4 | 369.0 | 353.9 | 339.7 | 362.3 | 382.4 | 379.0 |
| 22.5° | 3096.6 | 2591.2 | 1379.7 | 574.8 | 362.3 | 336.3 | 323.8 | 317.9 | 329.7 | 353.1 | 358.1 |
| 25° | 3007.9 | 2536.0 | 1137.9 | 431.7 | 328.0 | 305.4 | 299.5 | 294.5 | 298.7 | 317.9 | 317.1 |
| 27.5° | 3116.6 | 2396.3 | 878.5 | 362.3 | 303.7 | 276.9 | 271.9 | 263.6 | 255.2 | 271.9 | 274.4 |
| 30° | 3094.0 | 2415.5 | 688.6 | 318.8 | 279.5 | 243.5 | 245.1 | 227.6 | 212.5 | 227.6 | 227.6 |
| 32.5° | 3176.0 | 2274.9 | 551.4 | 289.5 | 255.2 | 229.3 | 208.3 | 189.9 | 179.0 | 188.3 | 189.9 |
| 35° | 3295.7 | 2280.8 | 431.7 | 271.1 | 234.3 | 204.1 | 179.0 | 160.6 | 150.6 | 154.8 | 157.3 |
| 37.5° | 3696.5 | 2240.6 | 360.6 | 256.9 | 226.7 | 189.1 | 163.2 | 138.9 | 132.2 | 137.2 | 139.7 |
| 40° | 3957.5 | 2347.7 | 317.9 | 249.3 | 207.5 | 174.0 | 139.7 | 122.2 | 116.3 | 118.8 | 123.0 |
| 42.5° | 4449.5 | 2407.1 | 297.0 | 241.0 | 189.9 | 148.9 | 119.6 | 109.6 | 101.2 | 104.6 | 107.9 |
| 45° | 4975.7 | 2508.4 | 281.1 | 231.8 | 176.5 | 130.5 | 105.4 | 97.1 | 86.2 | 87.0 | 90.4 |
| 47.5° | 5622.5 | 2749.3 | 262.7 | 215.9 | 158.1 | 118.8 | 93.7 | 81.2 | 71.1 | 70.3 | 74.5 |
| 50° | 6491.0 | 3071.5 | 246.0 | 195.8 | 146.4 | 108.8 | 82.0 | 66.1 | 57.7 | 55.2 | 58.6 |
| 52.5° | 7418.0 | 3488.1 | 228.4 | 181.6 | 132.2 | 95.4 | 70.3 | 53.5 | 46.0 | 44.3 | 46.9 |
| 55° | 8336.7 | 3888.1 | 211.7 | 172.4 | 117.1 | 82.0 | 59.4 | 44.3 | 37.7 | 36.0 | 37.7 |
| 57.5° | 9383.4 | 4320.6 | 189.9 | 153.9 | 102.9 | 71.1 | 49.4 | 36.8 | 31.0 | 29.3 | 30.1 |
| 60° | 10171.5 | 4472.9 | 171.5 | 133.9 | 89.5 | 62.8 | 41.8 | 29.3 | 25.1 | 23.4 | 24.3 |
| 62.5° | 10545.5 | 4224.4 | 153.9 | 116.3 | 78.6 | 54.4 | 35.1 | 24.3 | 20.9 | 19.2 | 19.2 |
| 65° | 10448.5 | 3673.9 | 136.4 | 99.6 | 67.8 | 45.2 | 27.6 | 20.9 | 18.4 | 15.9 | 15.1 |
| 67.5° | 9327.3 | 2874.8 | 116.3 | 83.7 | 56.9 | 36.8 | 23.4 | 20.1 | 16.7 | 15.1 | 12.6 |
| 70° | 7397.1 | 2081.7 | 94.5 | 69.4 | 47.7 | 30.1 | 18.4 | 18.4 | 15.9 | 15.1 | 11.7 |
| 72.5° | 4848.6 | 1310.2 | 77.0 | 56.1 | 39.3 | 23.4 | 14.2 | 16.7 | 15.1 | 15.1 | 10.9 |
| 75° | 2100.9 | 468.5 | 61.9 | 45.2 | 32.6 | 15.9 | 12.6 | 15.1 | 15.9 | 15.1 | 12.6 |
| 77.5° | 492.0 | 145.6 | 48.5 | 36.0 | 26.8 | 10.9 | 12.6 | 15.1 | 15.9 | 14.2 | 10.9 |
| 80° | 184.9 | 61.9 | 31.8 | 23.4 | 20.9 | 6.7 | 10.9 | 9.2 | 8.4 | 5.9 | 1.7 |
| 82.5° | 112.1 | 25.9 | 16.7 | 11.7 | 10.0 | 1.7 | 5.0 | 3.3 | 1.7 | 1.7 | 0.0 |
| 85° | 79.5 | 12.6 | 9.2 | 8.4 | 5.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.8 | 0.0 |
| 87.5° | 10.9 | 3.3 | 4.2 | 4.2 | 3.3 | 0.0 | 0.0 | 0.0 | 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)