

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: McGRAW-EDISON

Report Number: P198154

Luminaire Tested: **TT-C6-LED-E1-RW-PM-SG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34699)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C6-LED-E1-RW-PM-SG
Description: TOPTIER LED AREA/SITE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9429.6 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 108
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: 25 FT

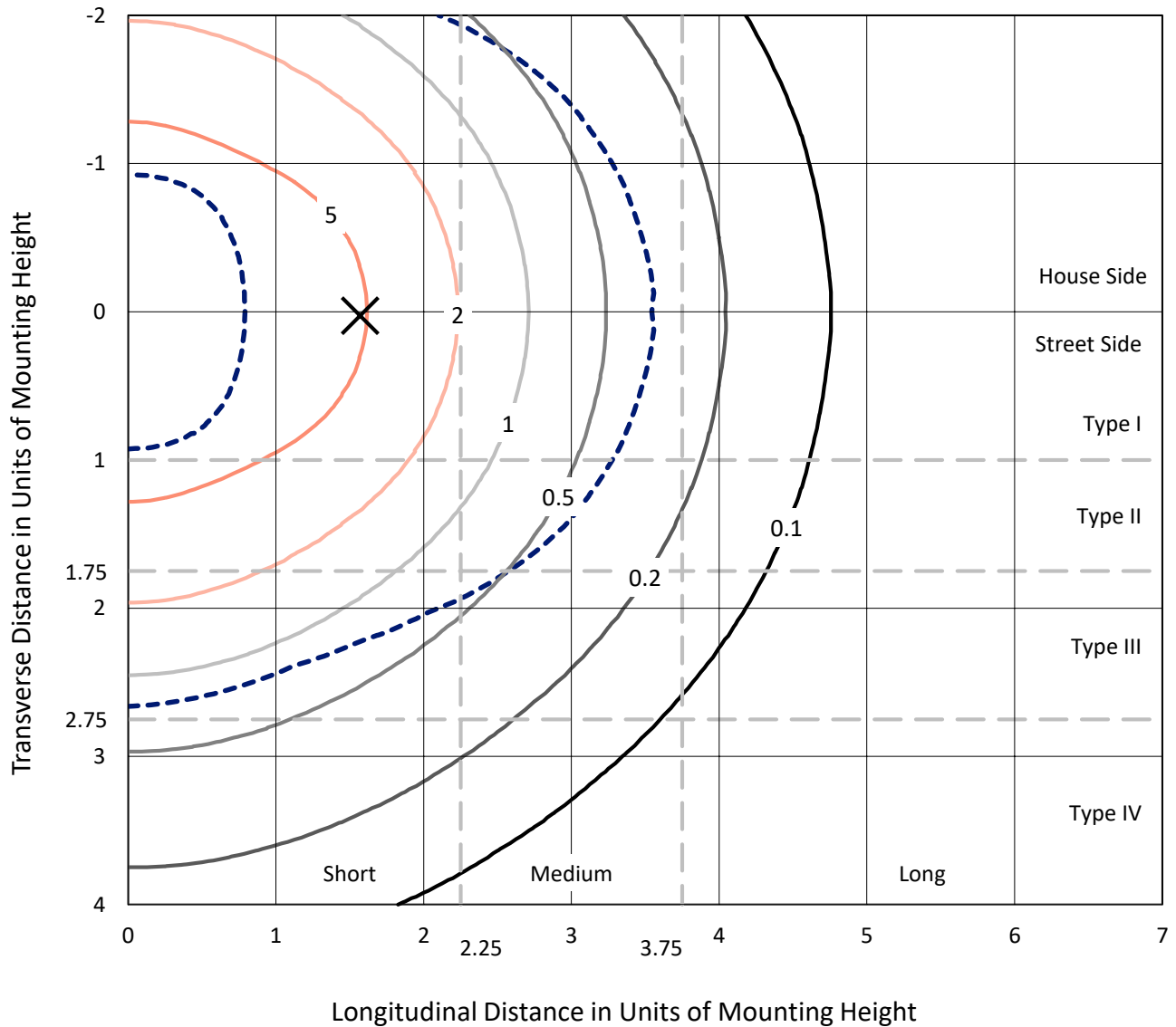


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

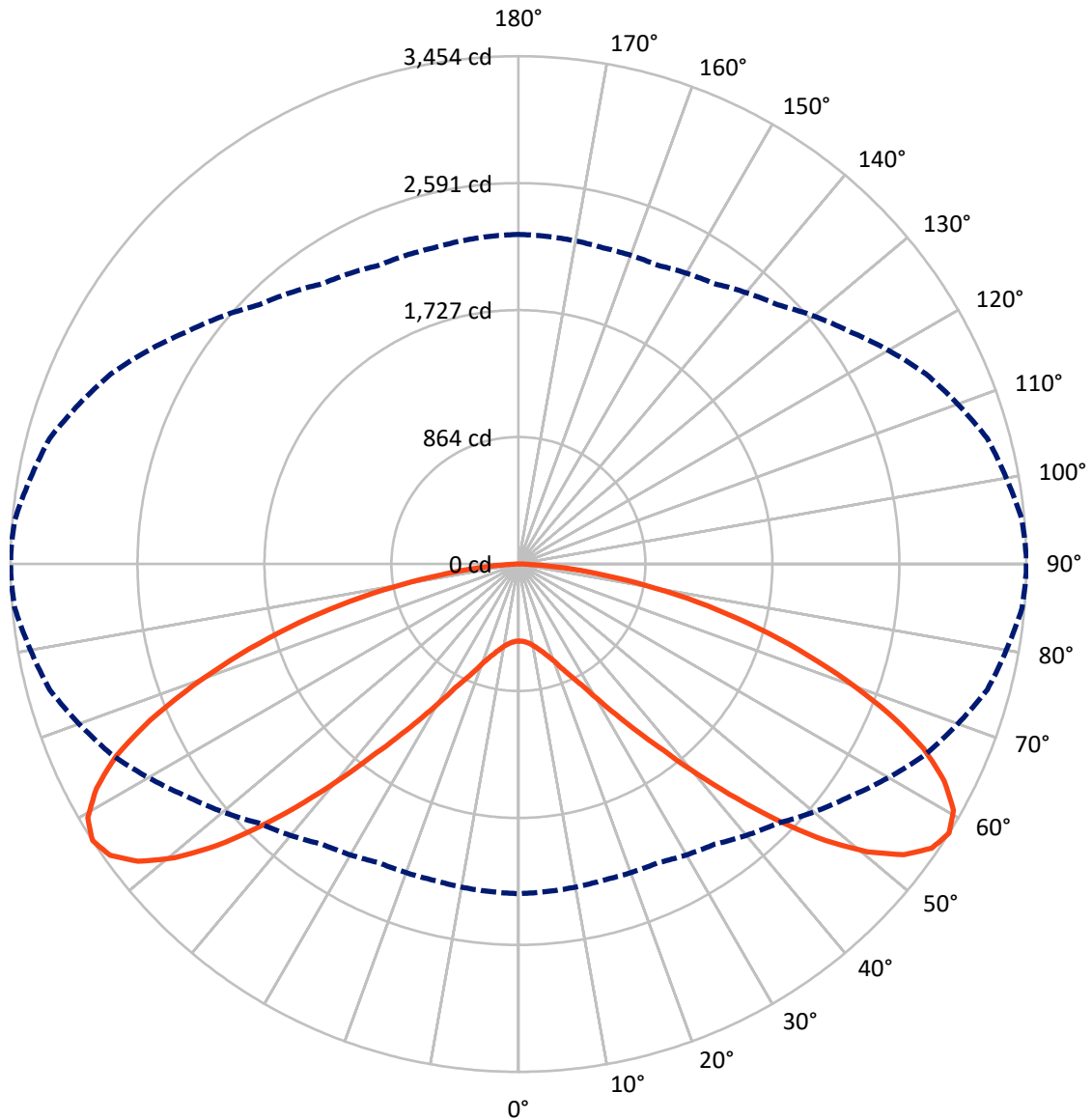


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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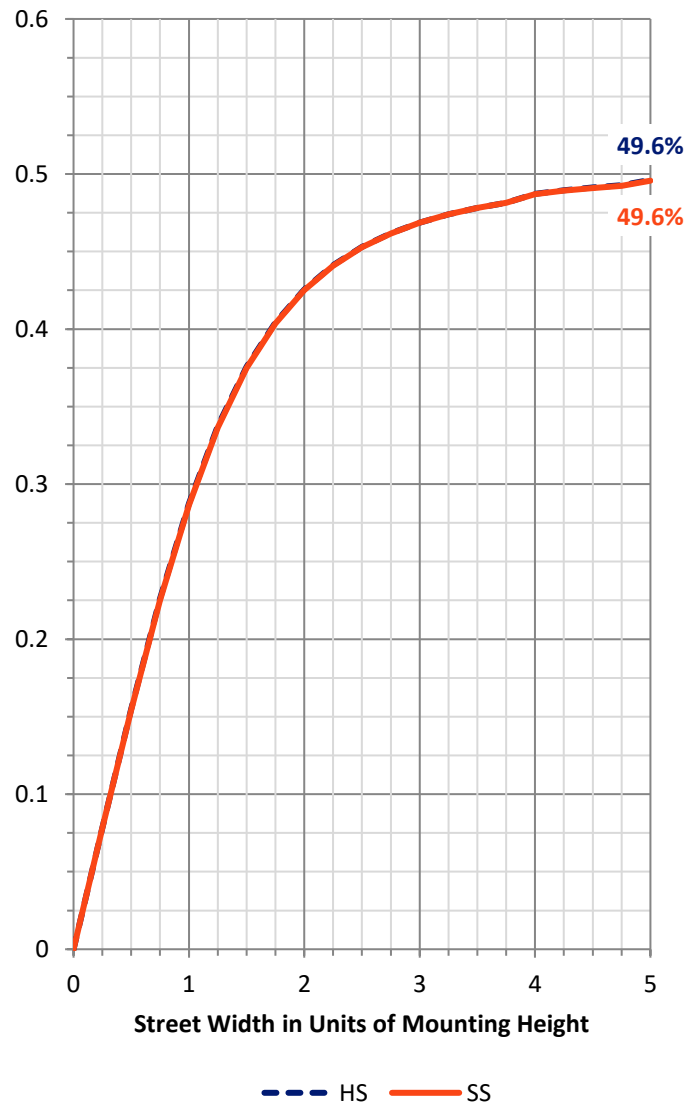
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4714.8 | 0.0 | 4714.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4714.8 | 0.0 | 4714.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9429.6 | 0.0 | 9429.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 52.0 | 0.6 |
| 10°-20° | 181.6 | 1.9 |
| 20°-30° | 406.7 | 4.3 |
| 30°-40° | 841.7 | 8.9 |
| 40°-50° | 1597.8 | 16.9 |
| 50°-60° | 2338.0 | 24.8 |
| 60°-70° | 2330.9 | 24.7 |
| 70°-80° | 1387.4 | 14.7 |
| 80°-90° | 293.4 | 3.1 |
| 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° | 9429.6 | 100.0 |
| 0°-180° | 9429.6 | 100.0 |

Coefficient of Utilization



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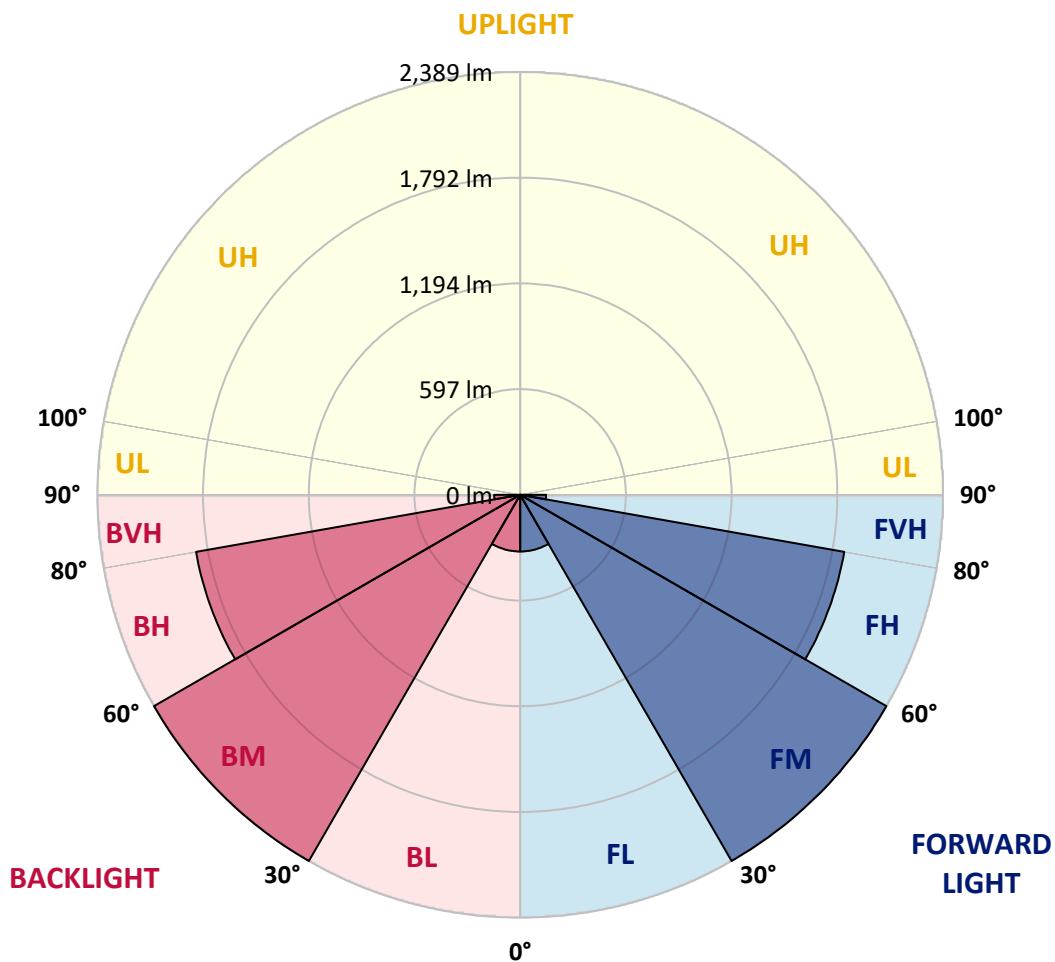
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 320.1 | 3.4 | | | |
| FM | (30°-60°) | 2388.8 | 25.3 | | | |
| FH | (60°-80°) | 1859.2 | 19.7 | | | G2/5000 |
| FVH | (80°-90°) | 146.7 | 1.6 | | | G2/225 |
| BL | (0°-30°) | 320.1 | 3.4 | B1/500 | | |
| BM | (30°-60°) | 2388.8 | 25.3 | B2/2500 | | |
| BH | (60°-80°) | 1859.2 | 19.7 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 146.7 | 1.6 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 89° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 523.8 | 523.8 | 523.8 | 523.8 | 523.8 | 523.8 | 523.8 | 523.8 | 523.8 | 523.8 | 523.8 |
| 2.5° | 527.7 | 527.7 | 527.7 | 527.7 | 525.7 | 525.7 | 525.7 | 525.7 | 525.7 | 525.7 | 525.7 |
| 5° | 535.5 | 535.5 | 533.6 | 535.5 | 533.6 | 533.6 | 533.6 | 533.6 | 533.6 | 533.6 | 533.6 |
| 7.5° | 547.3 | 547.3 | 547.3 | 547.3 | 547.3 | 547.3 | 545.3 | 547.3 | 545.3 | 545.3 | 545.3 |
| 10° | 568.9 | 566.9 | 568.9 | 566.9 | 566.9 | 565.0 | 565.0 | 565.0 | 565.0 | 565.0 | 565.0 |
| 12.5° | 596.3 | 596.3 | 596.3 | 594.4 | 592.4 | 592.4 | 590.5 | 590.5 | 590.5 | 588.5 | 590.5 |
| 15° | 633.6 | 635.6 | 629.7 | 627.7 | 627.7 | 623.8 | 621.8 | 623.8 | 621.8 | 619.9 | 621.8 |
| 17.5° | 678.7 | 680.7 | 676.8 | 672.8 | 668.9 | 667.0 | 665.0 | 663.0 | 663.0 | 663.0 | 661.1 |
| 20° | 737.6 | 737.6 | 733.7 | 725.8 | 719.9 | 716.0 | 716.0 | 714.0 | 714.0 | 716.0 | 710.1 |
| 22.5° | 804.3 | 802.3 | 798.4 | 794.5 | 786.6 | 778.8 | 774.8 | 772.9 | 772.9 | 776.8 | 778.8 |
| 25° | 886.7 | 888.6 | 876.9 | 869.0 | 861.2 | 847.4 | 845.5 | 847.4 | 849.4 | 849.4 | 853.3 |
| 27.5° | 971.0 | 974.9 | 965.1 | 953.4 | 941.6 | 935.7 | 931.8 | 935.7 | 939.6 | 945.5 | 943.5 |
| 30° | 1071.1 | 1069.1 | 1067.1 | 1049.5 | 1035.7 | 1029.9 | 1033.8 | 1045.6 | 1055.4 | 1069.1 | 1071.1 |
| 32.5° | 1178.9 | 1182.9 | 1169.1 | 1155.4 | 1149.5 | 1143.6 | 1149.5 | 1175.0 | 1202.5 | 1210.3 | 1220.1 |
| 35° | 1306.4 | 1298.6 | 1290.8 | 1280.9 | 1271.1 | 1271.1 | 1300.6 | 1330.0 | 1373.1 | 1402.6 | 1402.6 |
| 37.5° | 1435.9 | 1430.0 | 1416.3 | 1402.6 | 1402.6 | 1422.2 | 1451.6 | 1524.2 | 1587.0 | 1630.1 | 1612.5 |
| 40° | 1569.3 | 1561.5 | 1557.5 | 1541.8 | 1543.8 | 1590.9 | 1653.7 | 1743.9 | 1834.1 | 1894.9 | 1883.2 |
| 42.5° | 1704.7 | 1706.6 | 1692.9 | 1687.0 | 1704.7 | 1757.6 | 1867.5 | 1989.1 | 2102.9 | 2179.4 | 2181.3 |
| 45° | 1843.9 | 1843.9 | 1834.1 | 1830.2 | 1863.6 | 1944.0 | 2081.3 | 2248.0 | 2401.0 | 2489.3 | 2499.1 |
| 47.5° | 1971.4 | 1969.5 | 1961.6 | 1959.7 | 2016.6 | 2112.7 | 2285.3 | 2499.1 | 2687.4 | 2785.5 | 2811.0 |
| 50° | 2081.3 | 2083.3 | 2071.5 | 2081.3 | 2132.3 | 2259.8 | 2467.7 | 2726.7 | 2942.5 | 3066.0 | 3077.8 |
| 52.5° | 2167.6 | 2169.6 | 2155.8 | 2163.7 | 2232.3 | 2379.5 | 2610.9 | 2901.3 | 3136.7 | 3268.1 | 3283.8 |
| 55° | 2226.5 | 2218.6 | 2208.8 | 2220.6 | 2299.0 | 2461.9 | 2714.9 | 3017.0 | 3262.2 | 3399.5 | 3411.3 |
| 57.5° | 2242.1 | 2236.3 | 2226.5 | 2242.1 | 2326.5 | 2493.2 | 2754.1 | 3058.2 | 3301.4 | 3438.7 | 3454.4 |
| 60° | 2218.6 | 2218.6 | 2206.8 | 2224.5 | 2308.8 | 2471.7 | 2726.7 | 3020.9 | 3252.4 | 3377.9 | 3399.5 |
| 62.5° | 2157.8 | 2157.8 | 2144.1 | 2157.8 | 2238.2 | 2389.3 | 2632.5 | 2905.2 | 3115.1 | 3224.9 | 3250.4 |
| 65° | 2044.0 | 2042.1 | 2034.2 | 2038.1 | 2104.8 | 2248.0 | 2469.7 | 2716.9 | 2899.3 | 2997.4 | 3030.7 |
| 67.5° | 1879.2 | 1873.4 | 1865.5 | 1873.4 | 1922.4 | 2049.9 | 2253.9 | 2469.7 | 2620.7 | 2714.9 | 2722.7 |
| 70° | 1669.4 | 1663.5 | 1653.7 | 1649.7 | 1700.7 | 1802.7 | 1967.5 | 2157.8 | 2283.3 | 2352.0 | 2359.8 |
| 72.5° | 1420.2 | 1428.1 | 1420.2 | 1408.5 | 1441.8 | 1532.0 | 1669.4 | 1814.5 | 1918.5 | 1981.3 | 1991.1 |
| 75° | 1175.0 | 1177.0 | 1157.4 | 1153.4 | 1178.9 | 1235.8 | 1347.6 | 1459.5 | 1549.7 | 1602.7 | 1618.3 |
| 77.5° | 910.2 | 910.2 | 892.5 | 882.7 | 896.5 | 945.5 | 1022.0 | 1112.2 | 1186.8 | 1220.1 | 1247.6 |
| 80° | 655.2 | 655.2 | 639.5 | 616.0 | 629.7 | 655.2 | 723.8 | 772.9 | 831.7 | 869.0 | 872.9 |
| 82.5° | 410.0 | 404.1 | 408.0 | 390.4 | 394.3 | 402.1 | 445.3 | 478.6 | 513.9 | 533.6 | 535.5 |
| 85° | 213.8 | 206.0 | 202.0 | 192.2 | 186.4 | 200.1 | 219.7 | 243.2 | 251.1 | 268.7 | 262.9 |
| 87.5° | 66.7 | 62.8 | 60.8 | 60.8 | 54.9 | 58.8 | 60.8 | 64.7 | 74.5 | 74.5 | 78.5 |
| 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° |
|-------|--------|
| 0° | 523.8 |
| 2.5° | 525.7 |
| 5° | 533.6 |
| 7.5° | 545.3 |
| 10° | 565.0 |
| 12.5° | 588.5 |
| 15° | 621.8 |
| 17.5° | 663.0 |
| 20° | 710.1 |
| 22.5° | 772.9 |
| 25° | 849.4 |
| 27.5° | 939.6 |
| 30° | 1069.1 |
| 32.5° | 1214.3 |
| 35° | 1390.8 |
| 37.5° | 1632.1 |
| 40° | 1881.2 |
| 42.5° | 2195.1 |
| 45° | 2499.1 |
| 47.5° | 2811.0 |
| 50° | 3071.9 |
| 52.5° | 3277.9 |
| 55° | 3417.2 |
| 57.5° | 3454.4 |
| 60° | 3393.6 |
| 62.5° | 3244.5 |
| 65° | 3026.8 |
| 67.5° | 2722.7 |
| 70° | 2371.6 |
| 72.5° | 1985.2 |
| 75° | 1600.7 |
| 77.5° | 1239.8 |
| 80° | 872.9 |
| 82.5° | 551.2 |
| 85° | 262.9 |
| 87.5° | 84.4 |
| 90° | 0.0 |

(END OF REPORT)