

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: P595284

Luminaire Tested: **IST-PA1E-730-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1E-730-U-T3-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6800 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

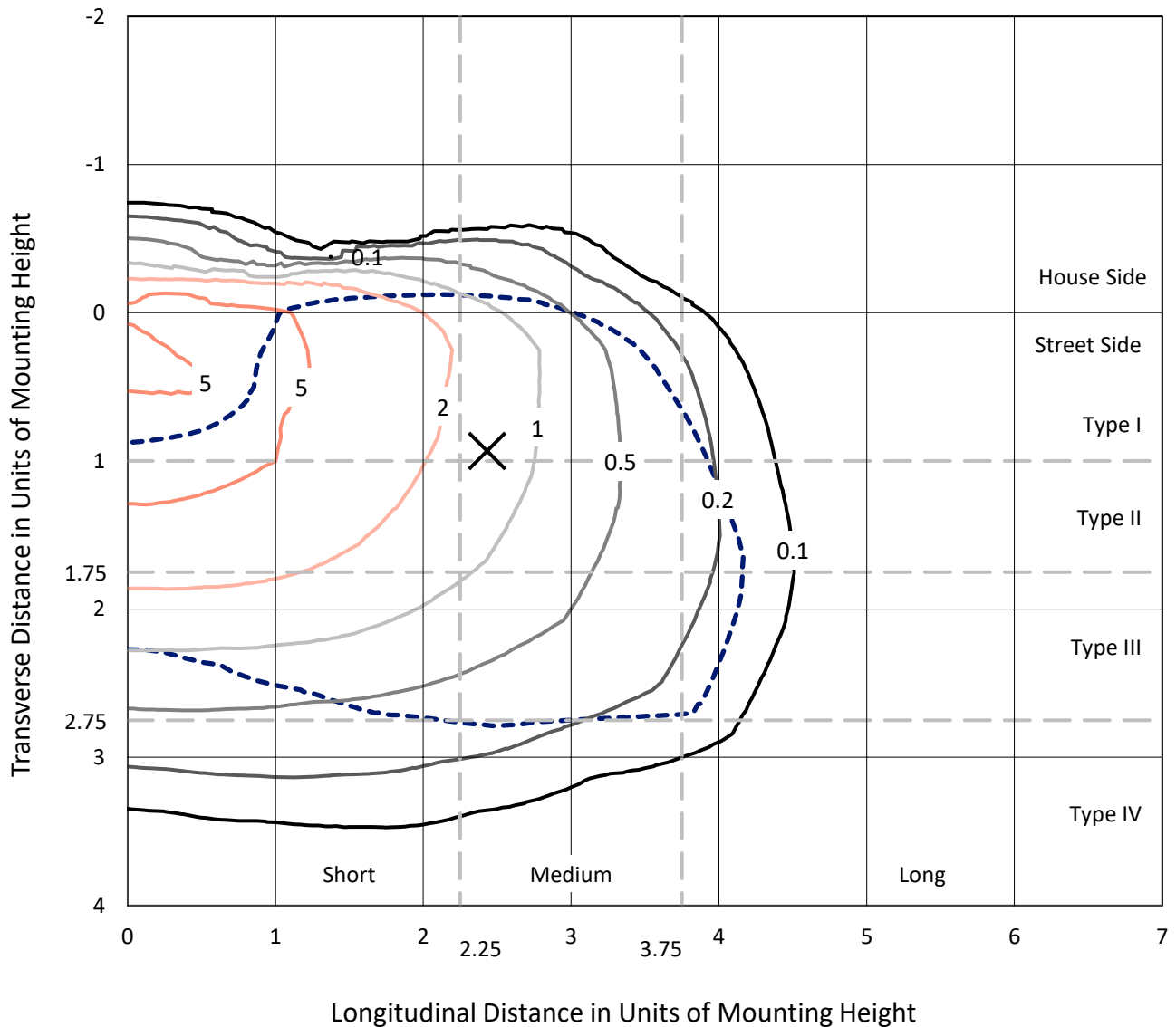
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

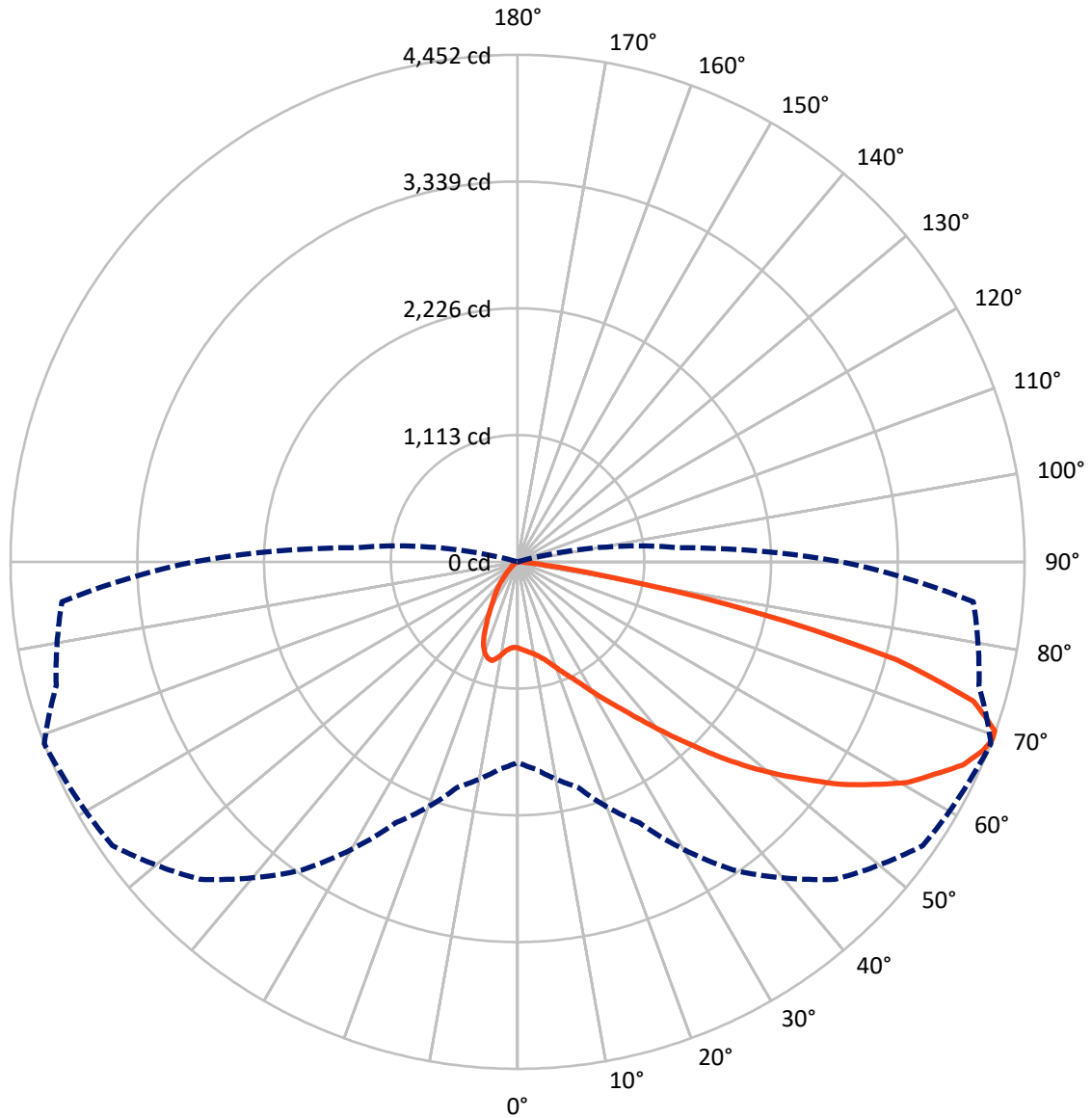
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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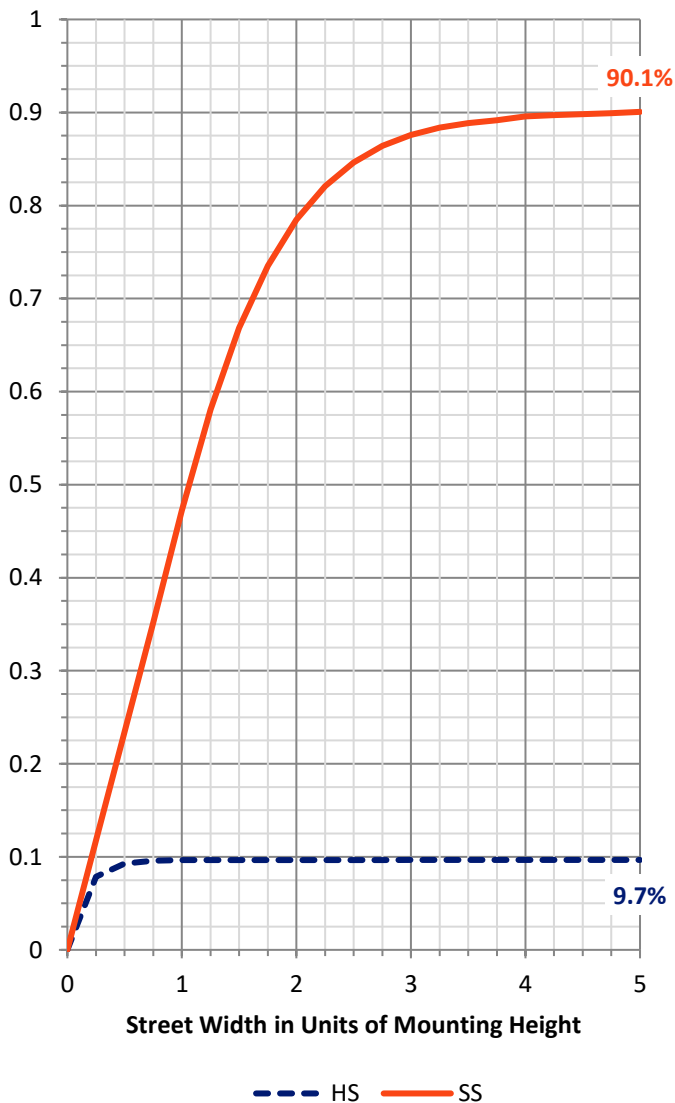
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 662.6 | 0.0 | 662.6 |
| | % Fixture | 9.7 | 0.0 | 9.7 |
| Street Side | Lumens | 6137.4 | 0.0 | 6137.4 |
| | % Fixture | 90.3 | 0.0 | 90.3 |
| Total | Lumens | 6800.0 | 0.0 | 6800.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 72.1 | 1.1 |
| 10°-20° | 190.8 | 2.8 |
| 20°-30° | 317.7 | 4.7 |
| 30°-40° | 572.0 | 8.4 |
| 40°-50° | 1037.2 | 15.3 |
| 50°-60° | 1620.8 | 23.8 |
| 60°-70° | 1875.2 | 27.6 |
| 70°-80° | 1048.7 | 15.4 |
| 80°-90° | 65.5 | 1.0 |
| 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° | 6800.0 | 100.0 |
| 0°-180° | 6800.0 | 100.0 |

Coefficient of Utilization

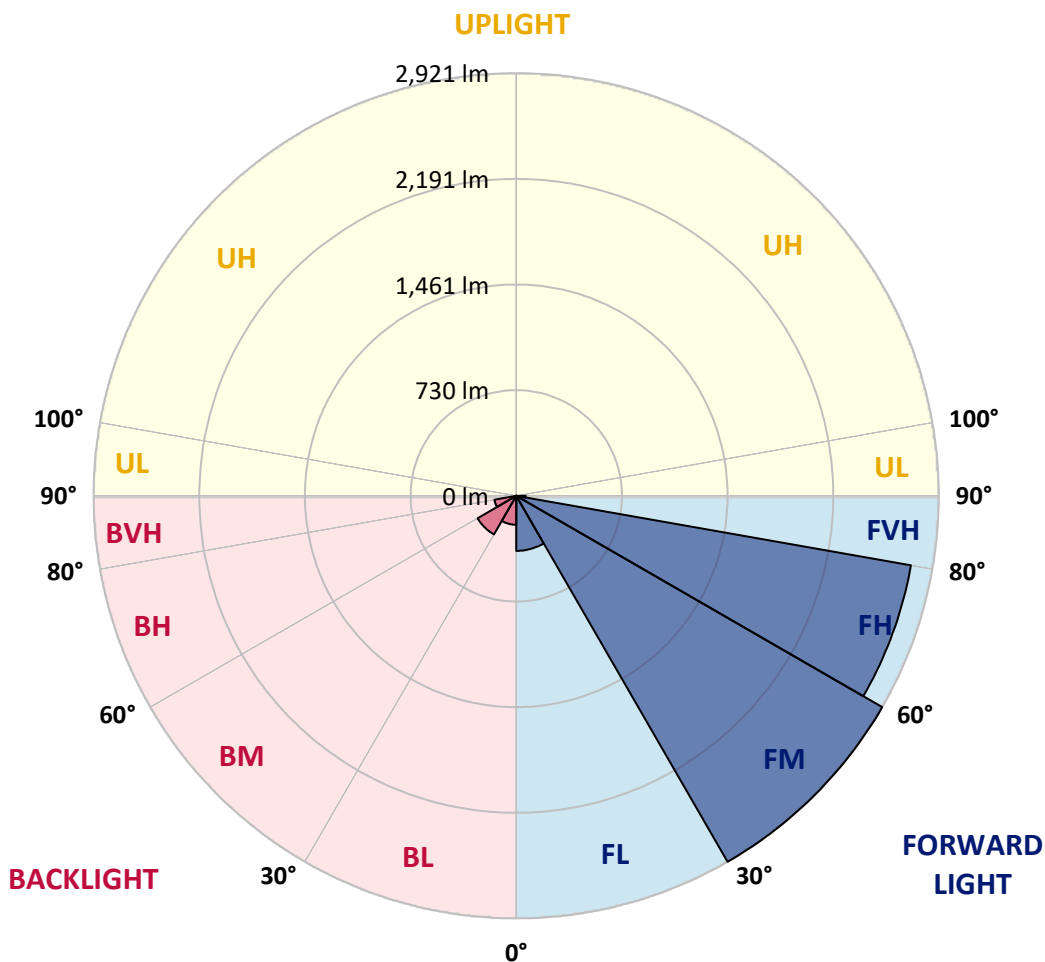


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 380.4 | 5.6 | | | |
| FM (30°-60°) | 2921.5 | 43.0 | | | |
| FH (60°-80°) | 2770.5 | 40.7 | | | G2/5000 |
| FVH (80°-90°) | 65.0 | 1.0 | | | G1/100 |
| BL (0°-30°) | 200.2 | 2.9 | B1/500 | | |
| BM (30°-60°) | 308.5 | 4.5 | B1/1000 | | |
| BH (60°-80°) | 153.4 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 69° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 756.4 | 756.4 | 756.4 | 756.4 | 756.4 | 756.4 | 756.4 | 756.4 | 756.4 | 756.4 | 756.4 |
| 2.5° | 783.6 | 783.6 | 783.6 | 779.0 | 781.3 | 779.0 | 776.8 | 770.0 | 772.2 | 770.0 | 763.2 |
| 5° | 756.4 | 758.7 | 765.4 | 770.0 | 781.3 | 785.8 | 788.1 | 788.1 | 785.8 | 781.3 | 776.8 |
| 7.5° | 704.3 | 704.3 | 711.1 | 724.7 | 747.3 | 772.2 | 792.6 | 803.9 | 806.2 | 806.2 | 799.4 |
| 10° | 690.7 | 690.7 | 699.8 | 708.8 | 731.5 | 760.9 | 792.6 | 819.8 | 824.3 | 828.9 | 826.6 |
| 12.5° | 683.9 | 686.2 | 695.2 | 711.1 | 740.5 | 767.7 | 801.7 | 840.2 | 853.8 | 865.1 | 867.4 |
| 15° | 693.0 | 693.0 | 702.0 | 717.9 | 751.9 | 790.4 | 833.4 | 876.4 | 890.0 | 905.9 | 917.2 |
| 17.5° | 706.6 | 711.1 | 715.6 | 731.5 | 763.2 | 810.7 | 867.4 | 924.0 | 939.8 | 960.2 | 969.3 |
| 20° | 729.2 | 729.2 | 733.7 | 747.3 | 781.3 | 837.9 | 917.2 | 985.1 | 998.7 | 1012.3 | 1023.6 |
| 22.5° | 756.4 | 758.7 | 758.7 | 770.0 | 808.5 | 869.6 | 960.2 | 1044.0 | 1066.6 | 1073.4 | 1078.0 |
| 25° | 837.9 | 833.4 | 817.5 | 810.7 | 840.2 | 905.9 | 1012.3 | 1114.2 | 1139.1 | 1145.9 | 1136.9 |
| 27.5° | 1007.8 | 989.6 | 946.6 | 901.3 | 896.8 | 962.5 | 1082.5 | 1202.5 | 1229.7 | 1232.0 | 1200.3 |
| 30° | 1220.6 | 1222.9 | 1152.7 | 1055.3 | 989.6 | 1023.6 | 1159.5 | 1313.5 | 1340.7 | 1329.3 | 1279.5 |
| 32.5° | 1483.3 | 1472.0 | 1419.9 | 1279.5 | 1148.2 | 1118.7 | 1243.3 | 1429.0 | 1460.7 | 1442.6 | 1376.9 |
| 35° | 1707.5 | 1714.3 | 1650.9 | 1526.4 | 1361.1 | 1265.9 | 1345.2 | 1558.1 | 1596.6 | 1564.9 | 1483.3 |
| 37.5° | 1895.5 | 1904.6 | 1866.1 | 1764.2 | 1617.0 | 1467.5 | 1478.8 | 1709.8 | 1761.9 | 1730.2 | 1628.3 |
| 40° | 2103.9 | 2110.6 | 2094.8 | 1983.8 | 1852.5 | 1707.5 | 1657.7 | 1884.2 | 1954.4 | 1911.4 | 1804.9 |
| 42.5° | 2332.6 | 2357.5 | 2330.3 | 2242.0 | 2106.1 | 1981.6 | 1906.8 | 2097.1 | 2167.3 | 2140.1 | 1997.4 |
| 45° | 2645.1 | 2647.4 | 2615.7 | 2527.3 | 2386.9 | 2285.0 | 2194.4 | 2323.5 | 2414.1 | 2380.1 | 2212.6 |
| 47.5° | 2876.1 | 2891.9 | 2873.8 | 2812.7 | 2699.5 | 2631.5 | 2507.0 | 2572.6 | 2667.7 | 2624.7 | 2434.5 |
| 50° | 3052.7 | 3095.8 | 3079.9 | 3098.0 | 3041.4 | 3012.0 | 2821.7 | 2830.8 | 2923.7 | 2887.4 | 2661.0 |
| 52.5° | 3150.1 | 3204.5 | 3209.0 | 3301.8 | 3349.4 | 3421.9 | 3127.5 | 3113.9 | 3172.8 | 3141.1 | 2891.9 |
| 55° | 3136.5 | 3150.1 | 3263.3 | 3433.2 | 3618.9 | 3784.2 | 3426.4 | 3369.8 | 3451.3 | 3363.0 | 3136.5 |
| 57.5° | 3005.2 | 3039.2 | 3238.4 | 3449.1 | 3777.4 | 4017.5 | 3684.6 | 3621.2 | 3689.1 | 3571.3 | 3387.9 |
| 60° | 2817.2 | 2867.0 | 3122.9 | 3424.1 | 3870.3 | 4157.9 | 3935.9 | 3872.5 | 3933.7 | 3791.0 | 3673.2 |
| 62.5° | 2647.4 | 2670.0 | 2905.5 | 3320.0 | 3815.9 | 4151.1 | 4130.7 | 4071.8 | 4108.1 | 3958.6 | 3917.8 |
| 65° | 2405.1 | 2414.1 | 2647.4 | 3132.0 | 3695.9 | 4105.8 | 4237.1 | 4259.8 | 4298.3 | 4099.0 | 4092.2 |
| 67.5° | 2031.4 | 2051.8 | 2282.8 | 2803.6 | 3496.6 | 4017.5 | 4320.9 | 4366.2 | 4411.5 | 4173.7 | 4123.9 |
| 69° | 1761.9 | 1827.6 | 2049.5 | 2527.3 | 3304.1 | 3942.7 | 4343.6 | 4416.1 | 4452.3 | 4194.1 | 4017.5 |
| 70° | 1542.2 | 1598.8 | 1854.7 | 2314.5 | 3134.3 | 3859.0 | 4359.4 | 4409.3 | 4445.5 | 4151.1 | 3843.1 |
| 72.5° | 774.5 | 847.0 | 1198.0 | 1689.4 | 2491.1 | 3476.2 | 4277.9 | 4223.6 | 4185.1 | 3818.2 | 3109.4 |
| 75° | 298.9 | 310.3 | 514.1 | 962.5 | 1558.1 | 2552.3 | 3652.9 | 3551.0 | 3437.7 | 2896.5 | 1843.4 |
| 77.5° | 165.3 | 163.1 | 224.2 | 425.8 | 663.5 | 1247.8 | 2470.7 | 2307.7 | 2151.4 | 1555.8 | 747.3 |
| 80° | 70.2 | 74.7 | 97.4 | 203.8 | 348.8 | 432.5 | 1200.3 | 1066.6 | 849.2 | 493.7 | 178.9 |
| 82.5° | 43.0 | 45.3 | 67.9 | 124.6 | 242.3 | 165.3 | 389.5 | 332.9 | 244.6 | 133.6 | 43.0 |
| 85° | 13.6 | 15.9 | 47.6 | 83.8 | 117.8 | 67.9 | 88.3 | 77.0 | 67.9 | 56.6 | 13.6 |
| 87.5° | 2.3 | 2.3 | 18.1 | 45.3 | 31.7 | 11.3 | 9.1 | 15.9 | 24.9 | 27.2 | 4.5 |
| 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° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 756.4 | 756.4 | 756.4 | 756.4 | 756.4 | 756.4 | 756.4 | 756.4 | 756.4 | 756.4 | 756.4 |
| 2.5° | 760.9 | 756.4 | 751.9 | 749.6 | 749.6 | 745.1 | 742.8 | 740.5 | 740.5 | 738.3 | 738.3 |
| 5° | 770.0 | 765.4 | 760.9 | 758.7 | 754.1 | 751.9 | 751.9 | 751.9 | 749.6 | 751.9 | 754.1 |
| 7.5° | 792.6 | 785.8 | 783.6 | 781.3 | 781.3 | 774.5 | 763.2 | 733.7 | 704.3 | 695.2 | 686.2 |
| 10° | 824.3 | 822.1 | 822.1 | 822.1 | 806.2 | 747.3 | 665.8 | 593.3 | 554.8 | 523.1 | 523.1 |
| 12.5° | 869.6 | 869.6 | 867.4 | 860.6 | 779.0 | 636.4 | 509.5 | 400.8 | 337.4 | 301.2 | 305.7 |
| 15° | 919.4 | 917.2 | 921.7 | 878.7 | 686.2 | 491.4 | 308.0 | 217.4 | 183.4 | 178.9 | 178.9 |
| 17.5° | 971.5 | 976.1 | 971.5 | 831.1 | 563.9 | 303.5 | 183.4 | 165.3 | 160.8 | 160.8 | 160.8 |
| 20° | 1025.9 | 1021.4 | 1014.6 | 749.6 | 409.9 | 190.2 | 158.5 | 154.0 | 149.5 | 147.2 | 147.2 |
| 22.5° | 1080.2 | 1075.7 | 1030.4 | 645.4 | 255.9 | 156.3 | 149.5 | 140.4 | 133.6 | 131.3 | 131.3 |
| 25° | 1132.3 | 1132.3 | 1001.0 | 511.8 | 174.4 | 147.2 | 135.9 | 126.8 | 120.0 | 113.2 | 113.2 |
| 27.5° | 1198.0 | 1202.5 | 953.4 | 357.8 | 147.2 | 135.9 | 122.3 | 108.7 | 99.6 | 95.1 | 95.1 |
| 30° | 1272.7 | 1279.5 | 876.4 | 233.3 | 133.6 | 120.0 | 106.4 | 90.6 | 77.0 | 72.5 | 70.2 |
| 32.5° | 1361.1 | 1367.8 | 788.1 | 154.0 | 120.0 | 104.2 | 88.3 | 67.9 | 54.4 | 52.1 | 49.8 |
| 35° | 1474.3 | 1458.4 | 681.7 | 122.3 | 104.2 | 88.3 | 67.9 | 47.6 | 38.5 | 36.2 | 36.2 |
| 37.5° | 1614.7 | 1580.7 | 559.4 | 106.4 | 88.3 | 70.2 | 49.8 | 31.7 | 24.9 | 24.9 | 22.6 |
| 40° | 1775.5 | 1680.4 | 432.5 | 95.1 | 74.7 | 54.4 | 31.7 | 20.4 | 15.9 | 15.9 | 15.9 |
| 42.5° | 1952.1 | 1764.2 | 308.0 | 83.8 | 61.1 | 38.5 | 20.4 | 11.3 | 9.1 | 9.1 | 9.1 |
| 45° | 2155.9 | 1841.2 | 210.6 | 72.5 | 52.1 | 27.2 | 11.3 | 4.5 | 4.5 | 4.5 | 4.5 |
| 47.5° | 2359.8 | 1891.0 | 140.4 | 63.4 | 38.5 | 15.9 | 6.8 | 2.3 | 2.3 | 2.3 | 2.3 |
| 50° | 2565.8 | 1929.5 | 108.7 | 54.4 | 27.2 | 9.1 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 2749.3 | 1956.7 | 88.3 | 45.3 | 18.1 | 6.8 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 2907.8 | 1958.9 | 77.0 | 36.2 | 13.6 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 3068.6 | 1940.8 | 65.7 | 27.2 | 9.1 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 3166.0 | 1893.2 | 52.1 | 20.4 | 6.8 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 3224.9 | 1814.0 | 40.8 | 13.6 | 4.5 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 3190.9 | 1714.3 | 29.4 | 9.1 | 4.5 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 3032.4 | 1560.3 | 20.4 | 6.8 | 2.3 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 69° | 2844.4 | 1419.9 | 18.1 | 4.5 | 2.3 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 2679.1 | 1311.2 | 15.9 | 4.5 | 2.3 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1995.1 | 844.7 | 13.6 | 4.5 | 2.3 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1121.0 | 283.1 | 9.1 | 2.3 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 421.2 | 72.5 | 4.5 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 92.9 | 18.1 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 20.4 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 6.8 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 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)