

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: P594823

Luminaire Tested: **ISS-PA1E-760-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1E-760-U-T2U-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 5700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7694 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

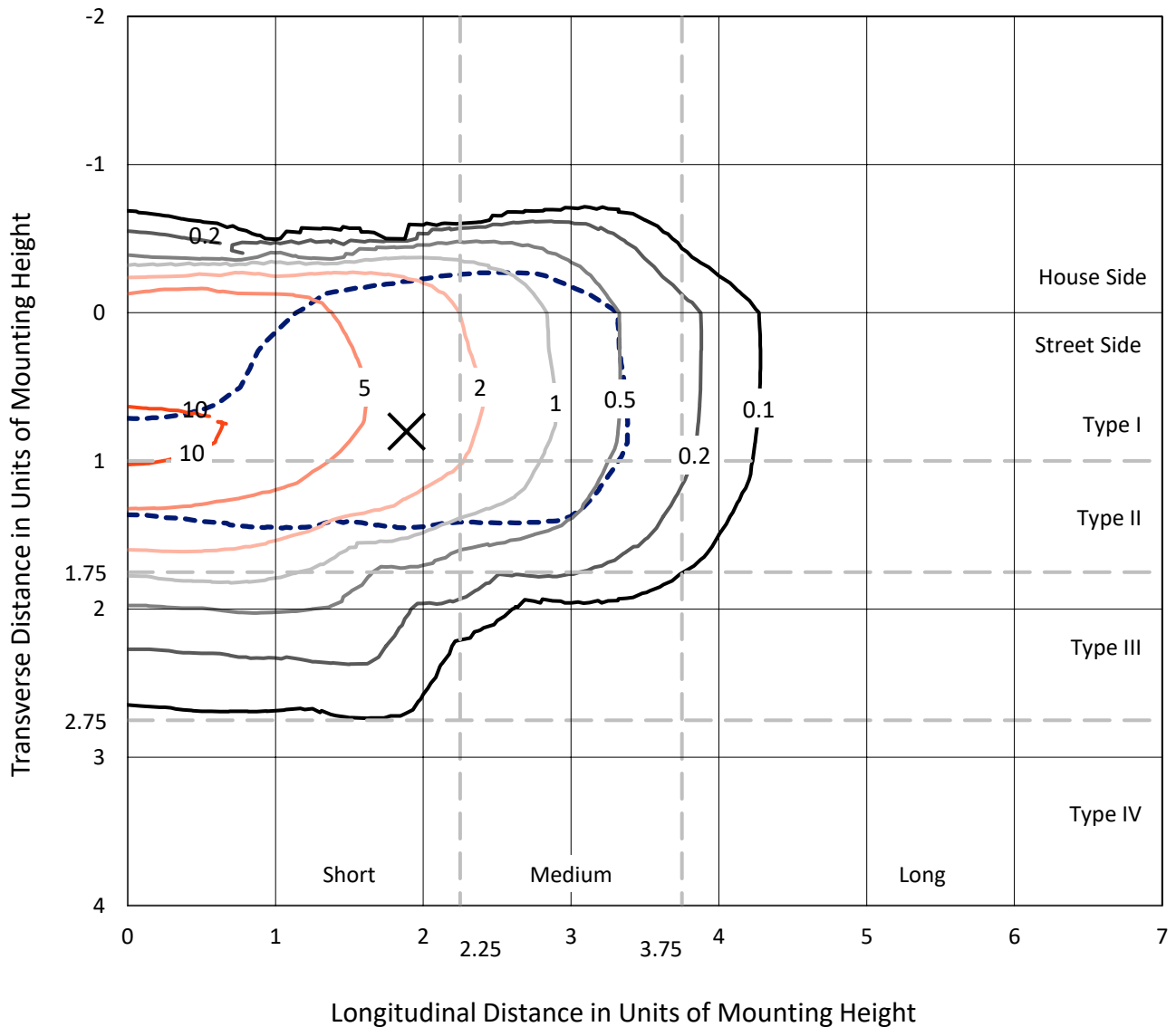
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

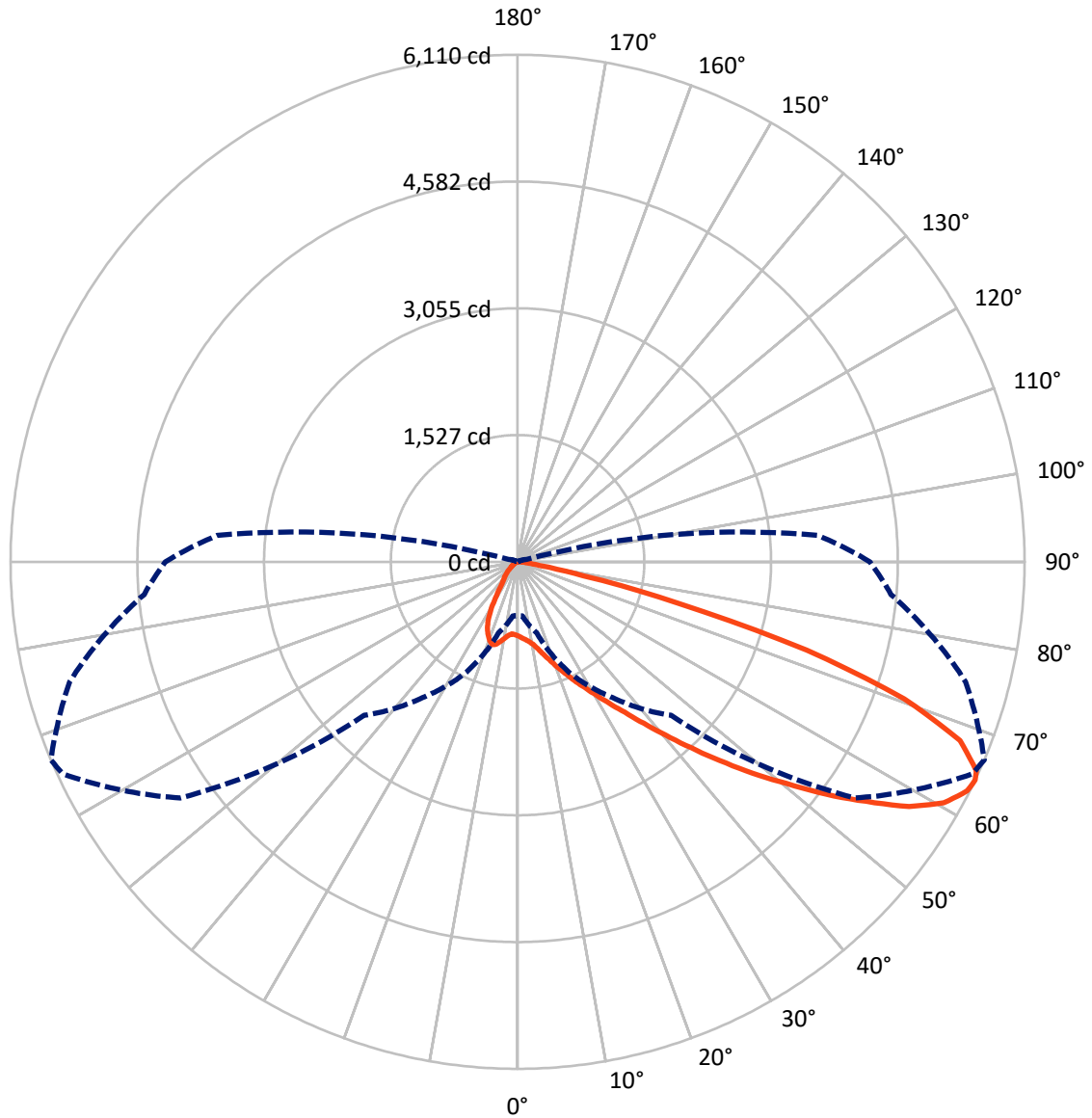
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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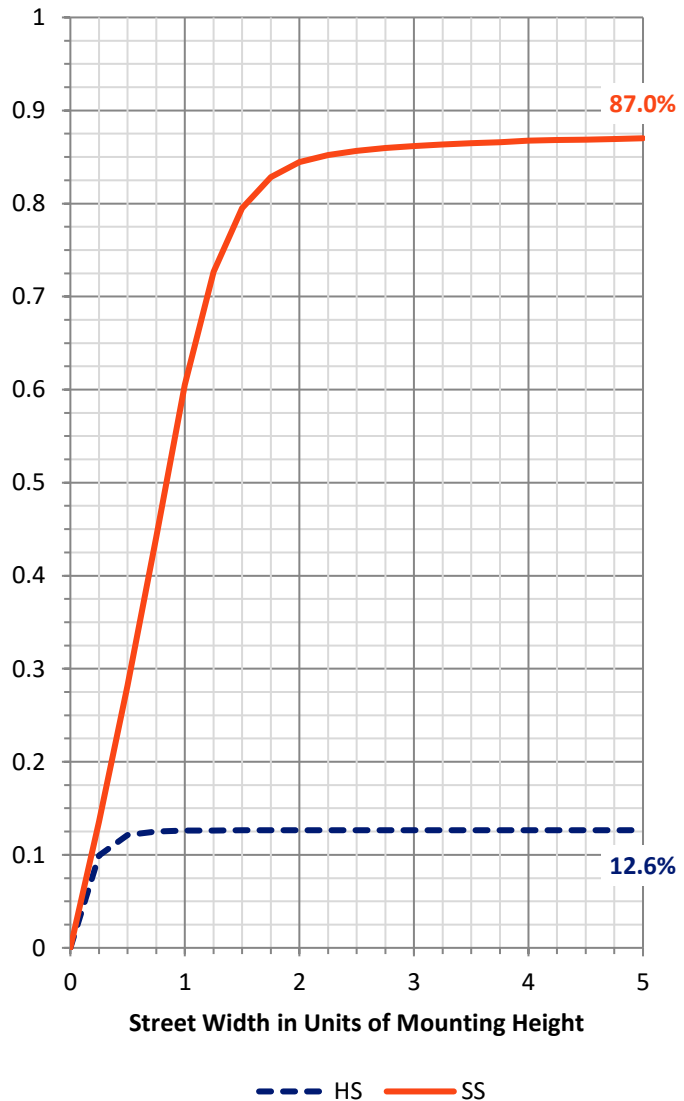
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 984.2 | 0.0 | 984.2 |
| | % Fixture | 12.8 | 0.0 | 12.8 |
| Street Side | Lumens | 6709.8 | 0.0 | 6709.8 |
| | % Fixture | 87.2 | 0.0 | 87.2 |
| Total | Lumens | 7694.0 | 0.0 | 7694.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 84.8 | 1.1 |
| 10°-20° | 250.3 | 3.3 |
| 20°-30° | 454.2 | 5.9 |
| 30°-40° | 870.0 | 11.3 |
| 40°-50° | 1603.5 | 20.8 |
| 50°-60° | 2071.0 | 26.9 |
| 60°-70° | 1696.4 | 22.0 |
| 70°-80° | 623.6 | 8.1 |
| 80°-90° | 40.2 | 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° | 7694.0 | 100.0 |
| 0°-180° | 7694.0 | 100.0 |

Coefficient of Utilization

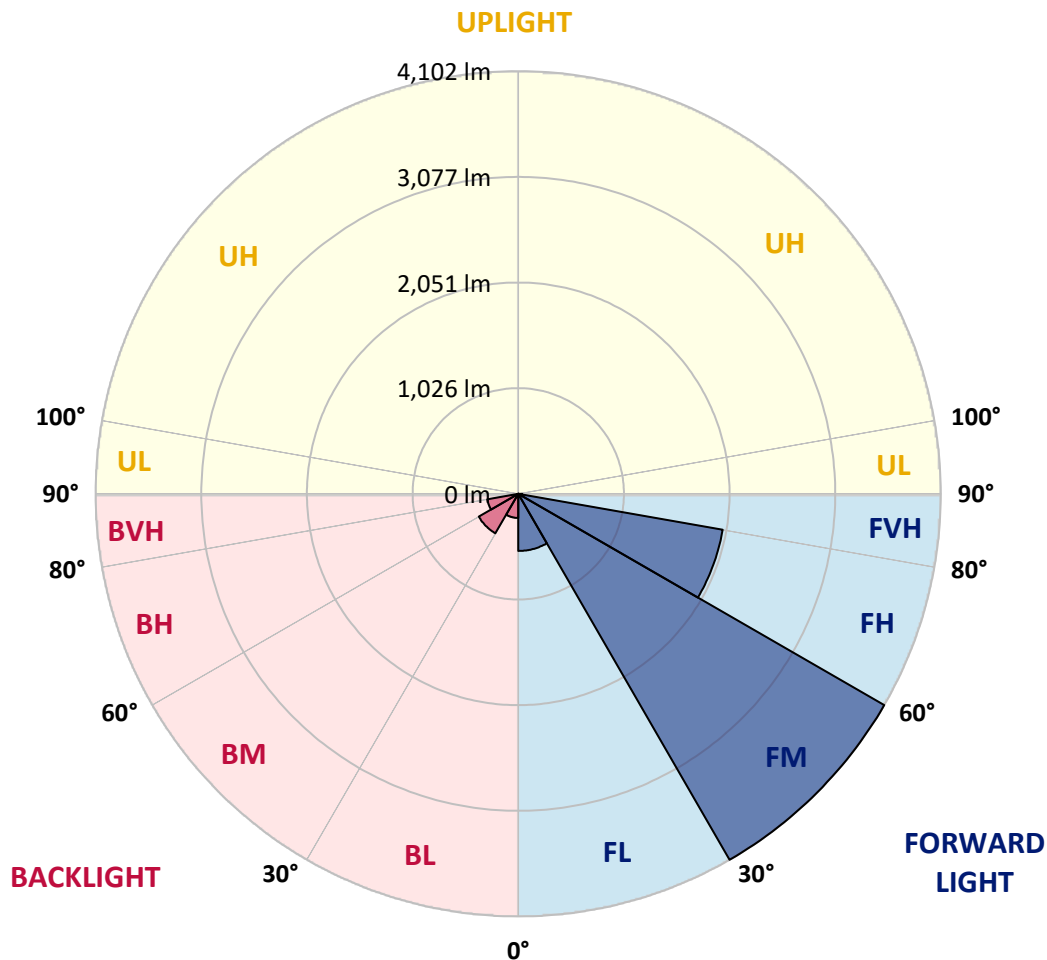


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 554.7 | 7.2 | | | |
| FM (30°-60°) | 4102.0 | 53.3 | | | |
| FH (60°-80°) | 2014.6 | 26.2 | | | G2/5000 |
| FVH (80°-90°) | 38.4 | 0.5 | | | G1/100 |
| BL (0°-30°) | 234.6 | 3.0 | B1/500 | | |
| BM (30°-60°) | 442.5 | 5.8 | B1/1000 | | |
| BH (60°-80°) | 305.3 | 4.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.8 | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 894.0 | 894.0 | 894.0 | 894.0 | 894.0 | 894.0 | 894.0 | 894.0 | 894.0 | 894.0 | 894.0 |
| 2.5° | 925.7 | 925.7 | 931.0 | 928.4 | 928.4 | 923.1 | 915.2 | 917.8 | 915.2 | 912.5 | 904.6 |
| 5° | 909.9 | 912.5 | 915.2 | 920.5 | 931.0 | 936.3 | 936.3 | 939.0 | 939.0 | 936.3 | 925.7 |
| 7.5° | 901.9 | 907.2 | 912.5 | 917.8 | 931.0 | 939.0 | 952.2 | 968.1 | 968.1 | 970.7 | 960.1 |
| 10° | 931.0 | 936.3 | 944.3 | 952.2 | 965.4 | 978.6 | 989.2 | 1007.7 | 1007.7 | 1013.0 | 1010.4 |
| 12.5° | 991.9 | 991.9 | 994.5 | 999.8 | 1018.3 | 1034.2 | 1052.7 | 1068.6 | 1071.2 | 1073.9 | 1065.9 |
| 15° | 1065.9 | 1065.9 | 1068.6 | 1068.6 | 1079.2 | 1103.0 | 1137.3 | 1153.2 | 1150.6 | 1147.9 | 1132.1 |
| 17.5° | 1150.6 | 1150.6 | 1150.6 | 1153.2 | 1158.5 | 1171.7 | 1211.4 | 1243.1 | 1240.5 | 1237.9 | 1206.1 |
| 20° | 1229.9 | 1235.2 | 1240.5 | 1243.1 | 1248.4 | 1259.0 | 1301.3 | 1338.4 | 1346.3 | 1335.7 | 1280.2 |
| 22.5° | 1319.8 | 1322.5 | 1325.1 | 1333.1 | 1346.3 | 1351.6 | 1393.9 | 1449.5 | 1457.4 | 1444.2 | 1370.1 |
| 25° | 1409.8 | 1415.1 | 1423.0 | 1433.6 | 1446.8 | 1473.3 | 1502.4 | 1576.4 | 1584.3 | 1568.5 | 1468.0 |
| 27.5° | 1608.2 | 1605.5 | 1581.7 | 1563.2 | 1565.8 | 1584.3 | 1624.0 | 1703.4 | 1711.3 | 1695.4 | 1565.8 |
| 30° | 1946.7 | 1915.0 | 1870.0 | 1788.0 | 1708.7 | 1716.6 | 1772.1 | 1848.8 | 1862.1 | 1840.9 | 1674.3 |
| 32.5° | 2428.1 | 2396.4 | 2285.3 | 2105.4 | 1930.8 | 1872.6 | 1944.1 | 2018.1 | 2034.0 | 2010.2 | 1801.2 |
| 35° | 2896.3 | 2888.3 | 2782.5 | 2565.6 | 2269.4 | 2108.1 | 2126.6 | 2221.8 | 2227.1 | 2198.0 | 1959.9 |
| 37.5° | 3475.5 | 3446.4 | 3300.9 | 3057.6 | 2708.5 | 2420.2 | 2367.3 | 2457.2 | 2470.4 | 2436.0 | 2153.0 |
| 40° | 3859.0 | 3848.5 | 3761.2 | 3589.2 | 3213.7 | 2851.3 | 2660.9 | 2748.1 | 2745.5 | 2695.2 | 2375.2 |
| 42.5° | 4081.2 | 4086.5 | 4081.2 | 3999.2 | 3785.0 | 3369.7 | 3049.7 | 3055.0 | 3062.9 | 3010.0 | 2631.8 |
| 45° | 4232.0 | 4232.0 | 4239.9 | 4306.0 | 4224.0 | 3988.6 | 3523.1 | 3404.1 | 3414.7 | 3332.7 | 2898.9 |
| 47.5° | 4229.3 | 4245.2 | 4287.5 | 4440.9 | 4552.0 | 4565.2 | 4115.6 | 3811.4 | 3806.1 | 3681.8 | 3174.0 |
| 50° | 3943.7 | 3933.1 | 4107.7 | 4451.5 | 4784.8 | 5041.3 | 4676.3 | 4242.6 | 4197.6 | 4044.2 | 3459.6 |
| 52.5° | 3300.9 | 3335.3 | 3626.3 | 4131.5 | 4840.3 | 5364.0 | 5160.4 | 4713.4 | 4655.2 | 4403.9 | 3710.9 |
| 55° | 2740.2 | 2777.2 | 3060.2 | 3554.9 | 4538.8 | 5477.8 | 5485.7 | 5213.3 | 5096.9 | 4716.0 | 3970.1 |
| 57.5° | 2057.8 | 2129.2 | 2547.1 | 3012.6 | 3877.5 | 5194.7 | 5602.1 | 5692.0 | 5565.0 | 5017.5 | 4181.7 |
| 60° | 1314.6 | 1356.9 | 1825.0 | 2399.0 | 3142.2 | 4454.2 | 5578.3 | 5969.7 | 5901.0 | 5292.6 | 4358.9 |
| 62.5° | 859.6 | 883.4 | 1206.1 | 1806.5 | 2393.7 | 3356.5 | 5295.3 | 6080.8 | 6080.8 | 5477.8 | 4491.2 |
| 64° | 648.0 | 653.3 | 883.4 | 1468.0 | 1997.0 | 2615.9 | 4962.0 | 6046.4 | 6109.9 | 5588.9 | 4517.6 |
| 65° | 513.1 | 515.8 | 690.3 | 1219.3 | 1793.3 | 2145.1 | 4671.0 | 5972.4 | 6075.5 | 5631.2 | 4533.5 |
| 67.5° | 359.7 | 367.7 | 447.0 | 703.6 | 1285.5 | 1237.9 | 3462.3 | 5623.2 | 5750.2 | 5644.4 | 4512.3 |
| 70° | 312.1 | 322.7 | 375.6 | 460.2 | 917.8 | 719.4 | 1840.9 | 4792.7 | 4943.5 | 5258.2 | 4200.2 |
| 72.5° | 238.0 | 251.3 | 314.8 | 388.8 | 645.4 | 486.7 | 711.5 | 3404.1 | 3642.1 | 4065.3 | 3467.6 |
| 75° | 171.9 | 177.2 | 232.8 | 317.4 | 452.3 | 375.6 | 306.8 | 1756.3 | 1997.0 | 2399.0 | 2155.7 |
| 77.5° | 108.4 | 116.4 | 158.7 | 238.0 | 404.7 | 285.7 | 182.5 | 640.1 | 806.7 | 1044.8 | 941.6 |
| 80° | 63.5 | 66.1 | 95.2 | 164.0 | 272.4 | 211.6 | 116.4 | 227.5 | 275.1 | 388.8 | 251.3 |
| 82.5° | 37.0 | 39.7 | 60.8 | 111.1 | 177.2 | 164.0 | 74.1 | 116.4 | 129.6 | 148.1 | 52.9 |
| 85° | 13.2 | 13.2 | 42.3 | 66.1 | 95.2 | 82.0 | 42.3 | 60.8 | 66.1 | 82.0 | 15.9 |
| 87.5° | 2.6 | 2.6 | 21.2 | 34.4 | 34.4 | 13.2 | 21.2 | 26.4 | 31.7 | 45.0 | 5.3 |
| 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° | 894.0 | 894.0 | 894.0 | 894.0 | 894.0 | 894.0 | 894.0 | 894.0 | 894.0 | 894.0 | 894.0 |
| 2.5° | 901.9 | 894.0 | 886.1 | 875.5 | 867.6 | 851.7 | 843.8 | 833.2 | 830.5 | 825.2 | 822.6 |
| 5° | 923.1 | 909.9 | 891.4 | 864.9 | 849.0 | 825.2 | 809.4 | 793.5 | 790.9 | 785.6 | 782.9 |
| 7.5° | 952.2 | 939.0 | 915.2 | 886.1 | 859.6 | 835.8 | 817.3 | 793.5 | 769.7 | 751.2 | 751.2 |
| 10° | 999.8 | 983.9 | 952.2 | 925.7 | 894.0 | 843.8 | 756.5 | 677.1 | 626.9 | 595.1 | 584.5 |
| 12.5° | 1058.0 | 1036.8 | 1002.4 | 970.7 | 909.9 | 751.2 | 616.3 | 513.1 | 428.5 | 388.8 | 380.9 |
| 15° | 1118.8 | 1100.3 | 1065.9 | 1018.3 | 835.8 | 626.9 | 449.6 | 290.9 | 209.0 | 171.9 | 177.2 |
| 17.5° | 1185.0 | 1158.5 | 1118.8 | 1023.6 | 735.3 | 468.2 | 240.7 | 148.1 | 127.0 | 121.7 | 121.7 |
| 20° | 1253.7 | 1219.3 | 1179.7 | 965.4 | 605.7 | 269.8 | 137.5 | 111.1 | 103.2 | 95.2 | 97.9 |
| 22.5° | 1327.8 | 1285.5 | 1224.6 | 878.1 | 433.8 | 145.5 | 105.8 | 89.9 | 79.3 | 76.7 | 76.7 |
| 25° | 1407.1 | 1346.3 | 1269.6 | 777.6 | 251.3 | 111.1 | 87.3 | 71.4 | 63.5 | 60.8 | 58.2 |
| 27.5° | 1491.8 | 1415.1 | 1280.2 | 645.4 | 142.8 | 92.6 | 68.8 | 55.5 | 47.6 | 45.0 | 45.0 |
| 30° | 1568.5 | 1483.8 | 1256.4 | 478.7 | 108.4 | 76.7 | 55.5 | 42.3 | 37.0 | 37.0 | 37.0 |
| 32.5° | 1671.6 | 1560.5 | 1182.3 | 298.9 | 87.3 | 60.8 | 42.3 | 34.4 | 29.1 | 29.1 | 29.1 |
| 35° | 1806.5 | 1674.3 | 1108.2 | 158.7 | 71.4 | 50.3 | 34.4 | 26.4 | 23.8 | 23.8 | 23.8 |
| 37.5° | 1991.7 | 1825.0 | 1042.1 | 100.5 | 58.2 | 39.7 | 26.4 | 21.2 | 18.5 | 18.5 | 18.5 |
| 40° | 2182.1 | 2004.9 | 949.5 | 76.7 | 47.6 | 31.7 | 21.2 | 15.9 | 13.2 | 13.2 | 15.9 |
| 42.5° | 2420.2 | 2213.9 | 843.8 | 66.1 | 39.7 | 26.4 | 15.9 | 10.6 | 7.9 | 10.6 | 10.6 |
| 45° | 2660.9 | 2433.4 | 695.6 | 55.5 | 34.4 | 21.2 | 10.6 | 5.3 | 5.3 | 7.9 | 7.9 |
| 47.5° | 2909.5 | 2666.1 | 539.6 | 47.6 | 29.1 | 15.9 | 7.9 | 2.6 | 2.6 | 5.3 | 5.3 |
| 50° | 3166.0 | 2896.3 | 402.0 | 42.3 | 23.8 | 13.2 | 5.3 | 2.6 | 0.0 | 2.6 | 2.6 |
| 52.5° | 3422.6 | 3118.4 | 312.1 | 37.0 | 21.2 | 10.6 | 2.6 | 0.0 | 0.0 | 0.0 | 2.6 |
| 55° | 3660.7 | 3319.5 | 248.6 | 31.7 | 18.5 | 7.9 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 3861.7 | 3467.6 | 198.4 | 29.1 | 15.9 | 5.3 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 4052.1 | 3584.0 | 153.4 | 23.8 | 13.2 | 5.3 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 4187.0 | 3628.9 | 124.3 | 21.2 | 10.6 | 5.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 64° | 4245.2 | 3634.2 | 108.4 | 18.5 | 10.6 | 5.3 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 4279.6 | 3618.3 | 100.5 | 18.5 | 10.6 | 5.3 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 4287.5 | 3531.1 | 76.7 | 15.9 | 7.9 | 2.6 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 4054.8 | 3226.9 | 55.5 | 10.6 | 5.3 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 3388.2 | 2465.1 | 37.0 | 7.9 | 5.3 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 2116.0 | 1065.9 | 21.2 | 7.9 | 2.6 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 875.5 | 322.7 | 13.2 | 5.3 | 2.6 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 201.0 | 76.7 | 5.3 | 2.6 | 2.6 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 47.6 | 13.2 | 2.6 | 2.6 | 2.6 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 10.6 | 2.6 | 2.6 | 2.6 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.3 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 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)