

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: P594735

Luminaire Tested: **ISS-PA1D-750-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594735
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: ISS-PA1D-750-U-T3-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 5000K, 800mA 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: 6460 lumens
Efficiency: N/A
Efficacy: 102.5 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

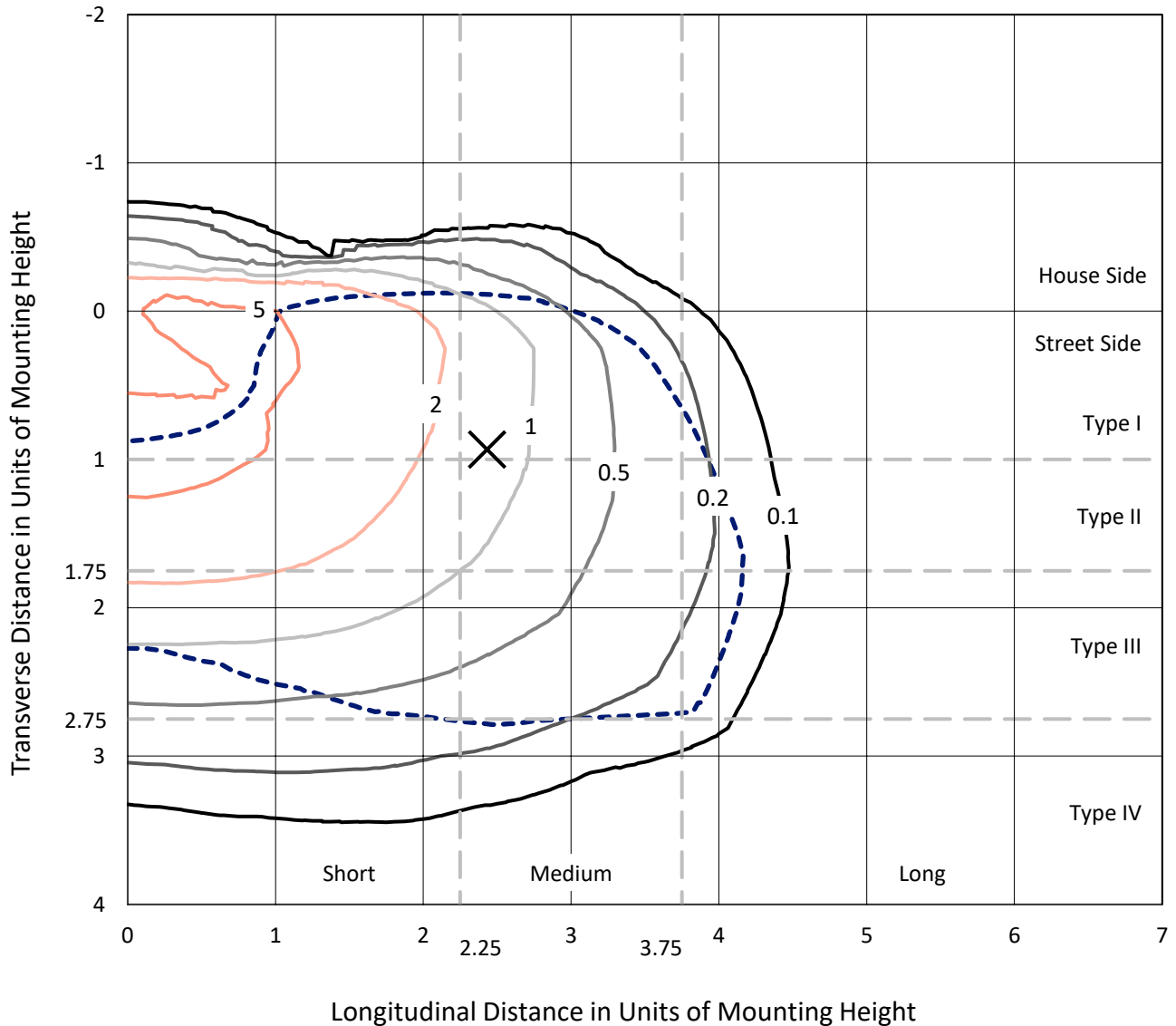
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

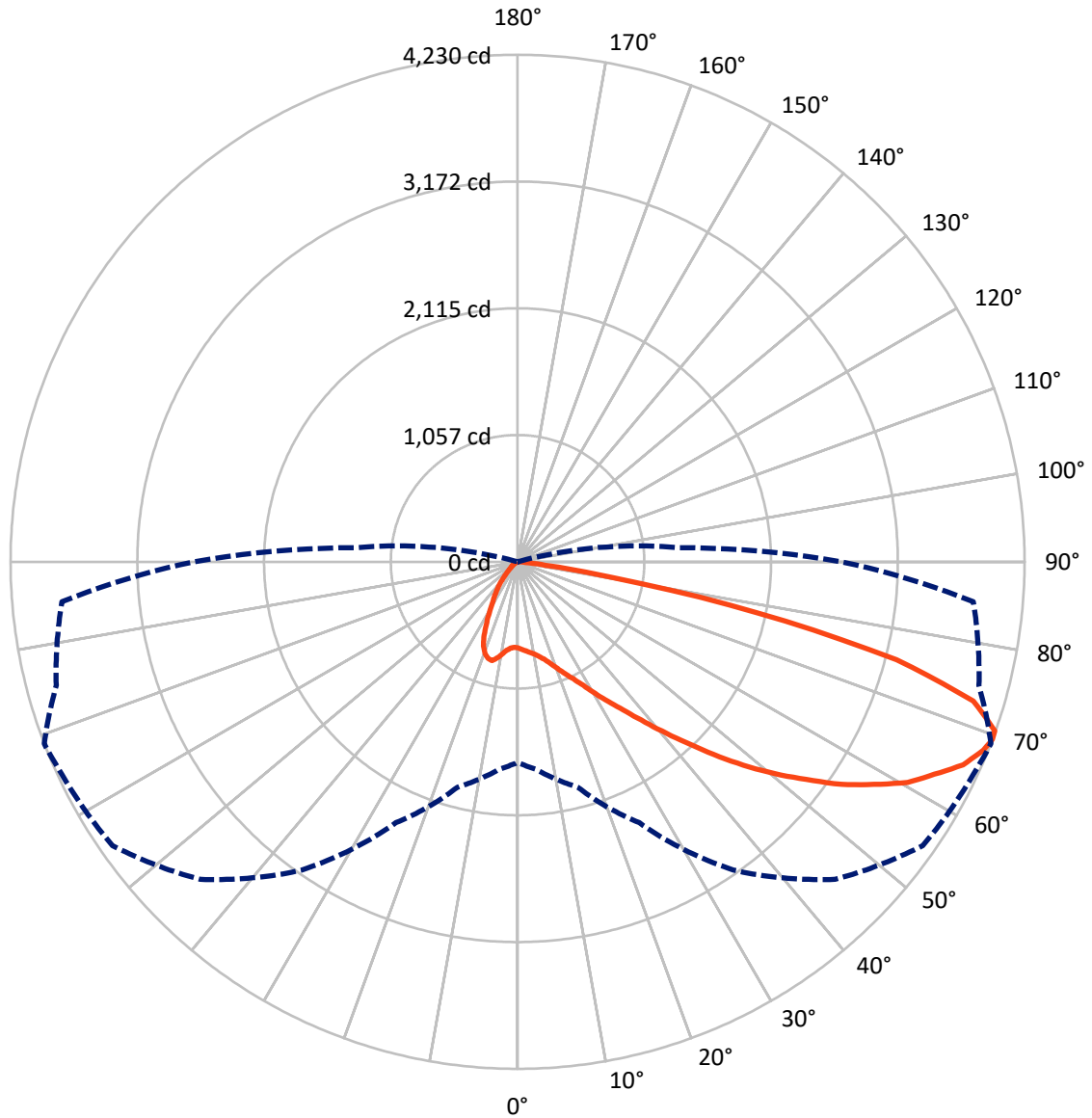
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.2 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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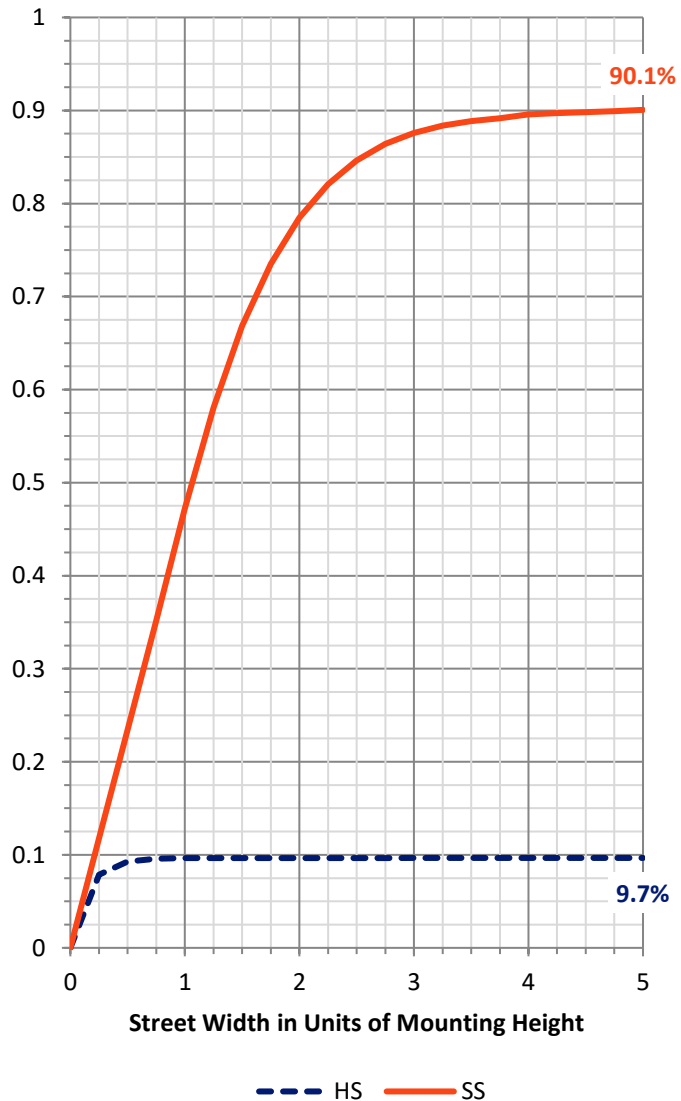
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 629.5 | 0.0 | 629.5 |
| | % Fixture | 9.7 | 0.0 | 9.7 |
| Street Side | Lumens | 5830.5 | 0.0 | 5830.5 |
| | % Fixture | 90.3 | 0.0 | 90.3 |
| Total | Lumens | 6460.0 | 0.0 | 6460.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.5 | 1.1 |
| 10°-20° | 181.3 | 2.8 |
| 20°-30° | 301.8 | 4.7 |
| 30°-40° | 543.4 | 8.4 |
| 40°-50° | 985.3 | 15.3 |
| 50°-60° | 1539.8 | 23.8 |
| 60°-70° | 1781.5 | 27.6 |
| 70°-80° | 996.3 | 15.4 |
| 80°-90° | 62.2 | 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° | 6460.0 | 100.0 |
| 0°-180° | 6460.0 | 100.0 |

Coefficient of Utilization

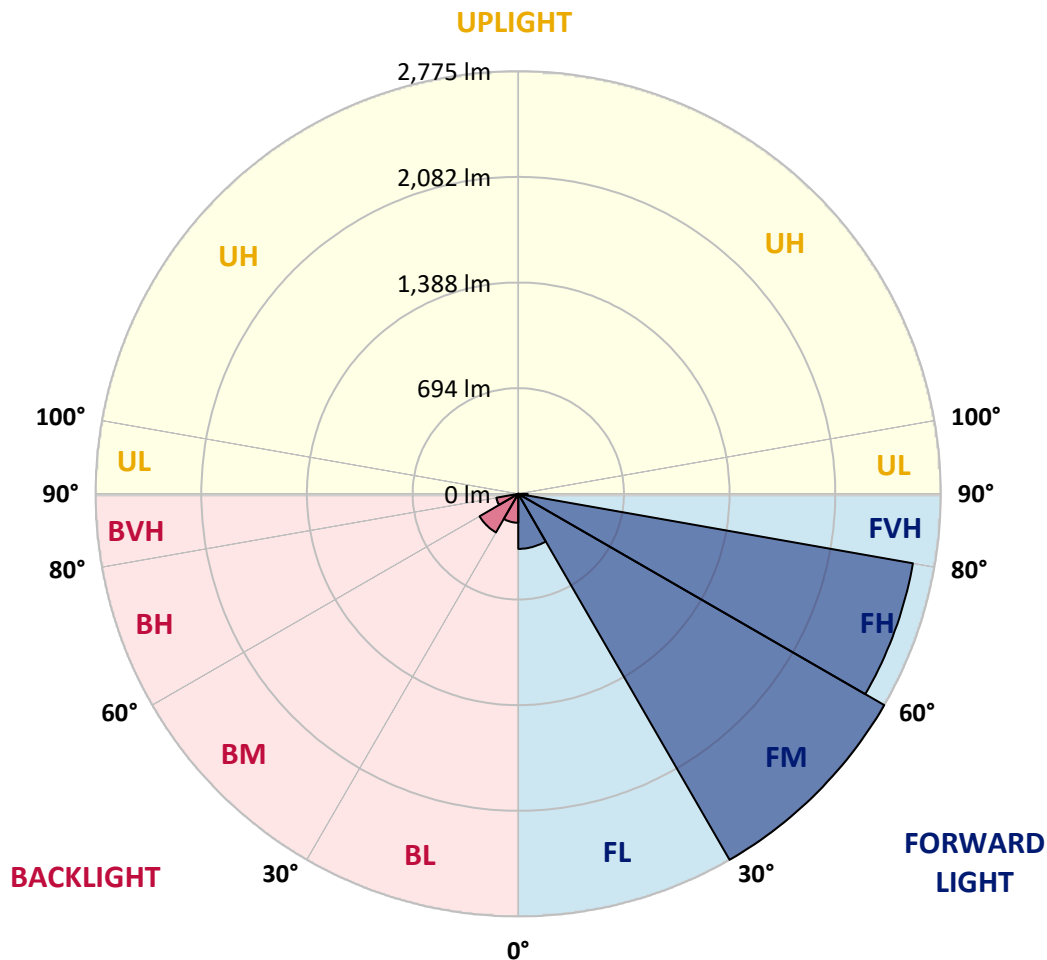


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 361.4 | 5.6 | | | |
| FM (30°-60°) | 2775.4 | 43.0 | | | |
| FH (60°-80°) | 2632.0 | 40.7 | | | G2/5000 |
| FVH (80°-90°) | 61.7 | 1.0 | | | G1/100 |
| BL (0°-30°) | 190.2 | 2.9 | B1/500 | | |
| BM (30°-60°) | 293.0 | 4.5 | B1/1000 | | |
| BH (60°-80°) | 145.8 | 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° | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 |
| 2.5° | 744.4 | 744.4 | 744.4 | 740.1 | 742.2 | 740.1 | 737.9 | 731.5 | 733.6 | 731.5 | 725.0 |
| 5° | 718.6 | 720.7 | 727.2 | 731.5 | 742.2 | 746.5 | 748.7 | 748.7 | 746.5 | 742.2 | 737.9 |
| 7.5° | 669.1 | 669.1 | 675.5 | 688.5 | 710.0 | 733.6 | 753.0 | 763.8 | 765.9 | 765.9 | 759.4 |
| 10° | 656.2 | 656.2 | 664.8 | 673.4 | 694.9 | 722.9 | 753.0 | 778.8 | 783.1 | 787.4 | 785.3 |
| 12.5° | 649.7 | 651.9 | 660.5 | 675.5 | 703.5 | 729.3 | 761.6 | 798.2 | 811.1 | 821.8 | 824.0 |
| 15° | 658.3 | 658.3 | 666.9 | 682.0 | 714.3 | 750.8 | 791.7 | 832.6 | 845.5 | 860.6 | 871.3 |
| 17.5° | 671.2 | 675.5 | 679.8 | 694.9 | 725.0 | 770.2 | 824.0 | 877.8 | 892.8 | 912.2 | 920.8 |
| 20° | 692.8 | 692.8 | 697.1 | 710.0 | 742.2 | 796.0 | 871.3 | 935.9 | 948.8 | 961.7 | 972.4 |
| 22.5° | 718.6 | 720.7 | 720.7 | 731.5 | 768.1 | 826.1 | 912.2 | 991.8 | 1013.3 | 1019.8 | 1024.1 |
| 25° | 796.0 | 791.7 | 776.7 | 770.2 | 798.2 | 860.6 | 961.7 | 1058.5 | 1082.2 | 1088.6 | 1080.0 |
| 27.5° | 957.4 | 940.2 | 899.3 | 856.3 | 852.0 | 914.3 | 1028.4 | 1142.4 | 1168.2 | 1170.4 | 1140.2 |
| 30° | 1159.6 | 1161.8 | 1095.1 | 1002.6 | 940.2 | 972.4 | 1101.5 | 1247.8 | 1273.6 | 1262.9 | 1215.5 |
| 32.5° | 1409.2 | 1398.4 | 1348.9 | 1215.5 | 1090.8 | 1062.8 | 1181.1 | 1357.5 | 1387.7 | 1370.4 | 1308.1 |
| 35° | 1622.2 | 1628.6 | 1568.4 | 1450.1 | 1293.0 | 1202.6 | 1277.9 | 1480.2 | 1516.7 | 1486.6 | 1409.2 |
| 37.5° | 1800.7 | 1809.3 | 1772.8 | 1675.9 | 1536.1 | 1394.1 | 1404.9 | 1624.3 | 1673.8 | 1643.7 | 1546.9 |
| 40° | 1998.7 | 2005.1 | 1990.1 | 1884.6 | 1759.9 | 1622.2 | 1574.8 | 1790.0 | 1856.7 | 1815.8 | 1714.7 |
| 42.5° | 2216.0 | 2239.6 | 2213.8 | 2129.9 | 2000.8 | 1882.5 | 1811.5 | 1992.2 | 2058.9 | 2033.1 | 1897.5 |
| 45° | 2512.8 | 2515.0 | 2484.9 | 2401.0 | 2267.6 | 2170.8 | 2084.7 | 2207.3 | 2293.4 | 2261.1 | 2101.9 |
| 47.5° | 2732.3 | 2747.4 | 2730.1 | 2672.1 | 2564.5 | 2499.9 | 2381.6 | 2444.0 | 2534.4 | 2493.5 | 2312.8 |
| 50° | 2900.1 | 2941.0 | 2925.9 | 2943.1 | 2889.3 | 2861.4 | 2680.7 | 2689.3 | 2777.5 | 2743.0 | 2527.9 |
| 52.5° | 2992.6 | 3044.2 | 3048.5 | 3136.8 | 3181.9 | 3250.8 | 2971.1 | 2958.2 | 3014.1 | 2984.0 | 2747.4 |
| 55° | 2979.7 | 2992.6 | 3100.2 | 3261.5 | 3438.0 | 3595.0 | 3255.1 | 3201.3 | 3278.7 | 3194.8 | 2979.7 |
| 57.5° | 2854.9 | 2887.2 | 3076.5 | 3276.6 | 3588.6 | 3816.6 | 3500.3 | 3440.1 | 3504.6 | 3392.8 | 3218.5 |
| 60° | 2676.4 | 2723.7 | 2966.8 | 3252.9 | 3676.8 | 3950.0 | 3739.2 | 3678.9 | 3737.0 | 3601.5 | 3489.6 |
| 62.5° | 2515.0 | 2536.5 | 2760.3 | 3154.0 | 3625.1 | 3943.5 | 3924.2 | 3868.2 | 3902.7 | 3760.7 | 3721.9 |
| 65° | 2284.8 | 2293.4 | 2515.0 | 2975.4 | 3511.1 | 3900.5 | 4025.3 | 4046.8 | 4083.4 | 3894.1 | 3887.6 |
| 67.5° | 1929.8 | 1949.2 | 2168.6 | 2663.4 | 3321.8 | 3816.6 | 4104.9 | 4147.9 | 4190.9 | 3965.0 | 3917.7 |
| 69° | 1673.8 | 1736.2 | 1947.0 | 2401.0 | 3138.9 | 3745.6 | 4126.4 | 4195.2 | 4229.7 | 3984.4 | 3816.6 |
| 70° | 1465.1 | 1518.9 | 1762.0 | 2198.7 | 2977.6 | 3666.0 | 4141.5 | 4188.8 | 4223.2 | 3943.5 | 3650.9 |
| 72.5° | 735.8 | 804.6 | 1138.1 | 1605.0 | 2366.6 | 3302.4 | 4064.0 | 4012.4 | 3975.8 | 3627.3 | 2953.9 |
| 75° | 284.0 | 294.7 | 488.4 | 914.3 | 1480.2 | 2424.6 | 3470.2 | 3373.4 | 3265.8 | 2751.7 | 1751.2 |
| 77.5° | 157.1 | 154.9 | 213.0 | 404.5 | 630.4 | 1185.4 | 2347.2 | 2192.3 | 2043.8 | 1478.0 | 710.0 |
| 80° | 66.7 | 71.0 | 92.5 | 193.6 | 331.3 | 410.9 | 1140.2 | 1013.3 | 806.8 | 469.0 | 170.0 |
| 82.5° | 40.9 | 43.0 | 64.5 | 118.3 | 230.2 | 157.1 | 370.0 | 316.3 | 232.4 | 126.9 | 40.9 |
| 85° | 12.9 | 15.1 | 45.2 | 79.6 | 111.9 | 64.5 | 83.9 | 73.1 | 64.5 | 53.8 | 12.9 |
| 87.5° | 2.2 | 2.2 | 17.2 | 43.0 | 30.1 | 10.8 | 8.6 | 15.1 | 23.7 | 25.8 | 4.3 |
| 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° | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 | 718.6 |
| 2.5° | 722.9 | 718.6 | 714.3 | 712.1 | 712.1 | 707.8 | 705.7 | 703.5 | 703.5 | 701.4 | 701.4 |
| 5° | 731.5 | 727.2 | 722.9 | 720.7 | 716.4 | 714.3 | 714.3 | 714.3 | 712.1 | 714.3 | 716.4 |
| 7.5° | 753.0 | 746.5 | 744.4 | 742.2 | 742.2 | 735.8 | 725.0 | 697.1 | 669.1 | 660.5 | 651.9 |
| 10° | 783.1 | 781.0 | 781.0 | 781.0 | 765.9 | 710.0 | 632.5 | 563.7 | 527.1 | 497.0 | 497.0 |
| 12.5° | 826.1 | 826.1 | 824.0 | 817.5 | 740.1 | 604.5 | 484.1 | 380.8 | 320.6 | 286.1 | 290.4 |
| 15° | 873.5 | 871.3 | 875.6 | 834.7 | 651.9 | 466.9 | 292.6 | 206.5 | 174.3 | 170.0 | 170.0 |
| 17.5° | 923.0 | 927.3 | 923.0 | 789.6 | 535.7 | 288.3 | 174.3 | 157.1 | 152.8 | 152.8 | 152.8 |
| 20° | 974.6 | 970.3 | 963.8 | 712.1 | 389.4 | 180.7 | 150.6 | 146.3 | 142.0 | 139.8 | 139.8 |
| 22.5° | 1026.2 | 1021.9 | 978.9 | 613.2 | 243.1 | 148.4 | 142.0 | 133.4 | 126.9 | 124.8 | 124.8 |
| 25° | 1075.7 | 1075.7 | 950.9 | 486.2 | 165.7 | 139.8 | 129.1 | 120.5 | 114.0 | 107.6 | 107.6 |
| 27.5° | 1138.1 | 1142.4 | 905.7 | 339.9 | 139.8 | 129.1 | 116.2 | 103.3 | 94.7 | 90.4 | 90.4 |
| 30° | 1209.1 | 1215.5 | 832.6 | 221.6 | 126.9 | 114.0 | 101.1 | 86.1 | 73.1 | 68.8 | 66.7 |
| 32.5° | 1293.0 | 1299.5 | 748.7 | 146.3 | 114.0 | 99.0 | 83.9 | 64.5 | 51.6 | 49.5 | 47.3 |
| 35° | 1400.6 | 1385.5 | 647.6 | 116.2 | 99.0 | 83.9 | 64.5 | 45.2 | 36.6 | 34.4 | 34.4 |
| 37.5° | 1534.0 | 1501.7 | 531.4 | 101.1 | 83.9 | 66.7 | 47.3 | 30.1 | 23.7 | 23.7 | 21.5 |
| 40° | 1686.7 | 1596.3 | 410.9 | 90.4 | 71.0 | 51.6 | 30.1 | 19.4 | 15.1 | 15.1 | 15.1 |
| 42.5° | 1854.5 | 1675.9 | 292.6 | 79.6 | 58.1 | 36.6 | 19.4 | 10.8 | 8.6 | 8.6 | 8.6 |
| 45° | 2048.1 | 1749.1 | 200.1 | 68.8 | 49.5 | 25.8 | 10.8 | 4.3 | 4.3 | 4.3 | 4.3 |
| 47.5° | 2241.8 | 1796.4 | 133.4 | 60.2 | 36.6 | 15.1 | 6.5 | 2.2 | 2.2 | 2.2 | 2.2 |
| 50° | 2437.5 | 1833.0 | 103.3 | 51.6 | 25.8 | 8.6 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 2611.8 | 1858.8 | 83.9 | 43.0 | 17.2 | 6.5 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 2762.4 | 1861.0 | 73.1 | 34.4 | 12.9 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 2915.2 | 1843.8 | 62.4 | 25.8 | 8.6 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 3007.7 | 1798.6 | 49.5 | 19.4 | 6.5 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 3063.6 | 1723.3 | 38.7 | 12.9 | 4.3 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 3031.3 | 1628.6 | 28.0 | 8.6 | 4.3 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 2880.7 | 1482.3 | 19.4 | 6.5 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 69° | 2702.2 | 1348.9 | 17.2 | 4.3 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 2545.1 | 1245.7 | 15.1 | 4.3 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1895.4 | 802.5 | 12.9 | 4.3 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1064.9 | 268.9 | 8.6 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 400.2 | 68.8 | 4.3 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 88.2 | 17.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 19.4 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 6.5 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.2 | 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)