

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: P594866

Luminaire Tested: **ISS-PA1F-730-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1F-730-U-T2R-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8828.1 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

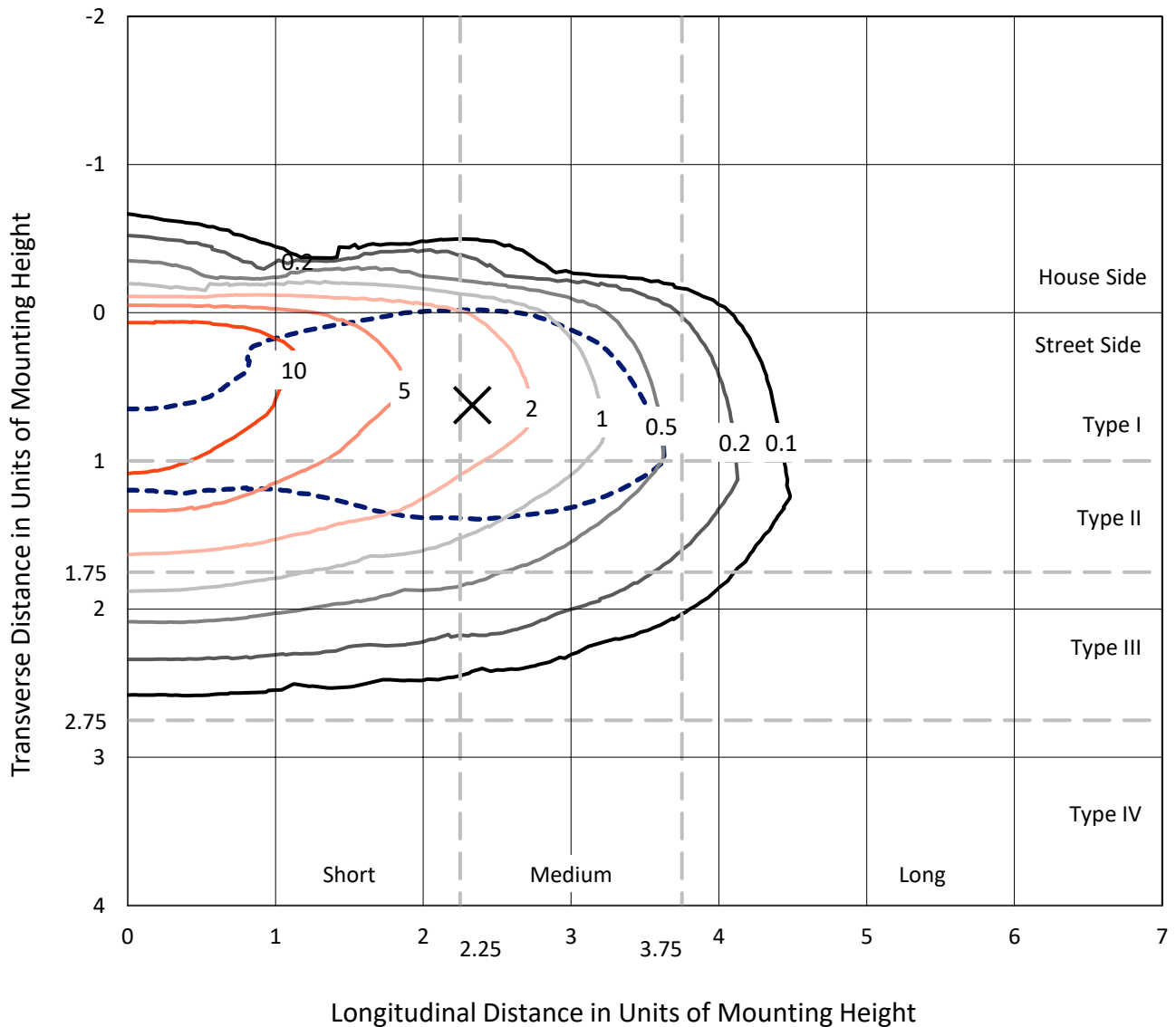
Input Watts (W): 94.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

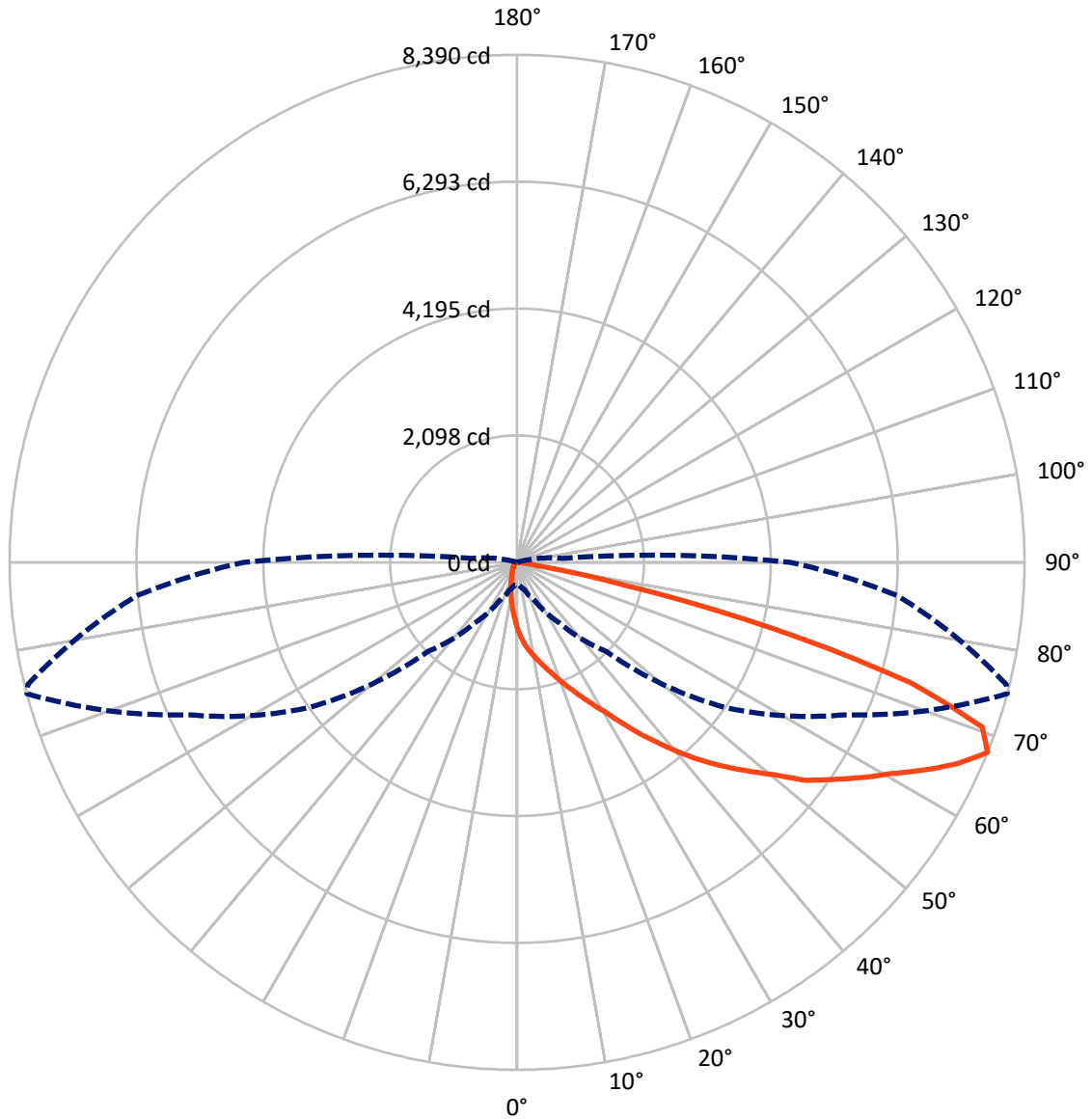
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 17.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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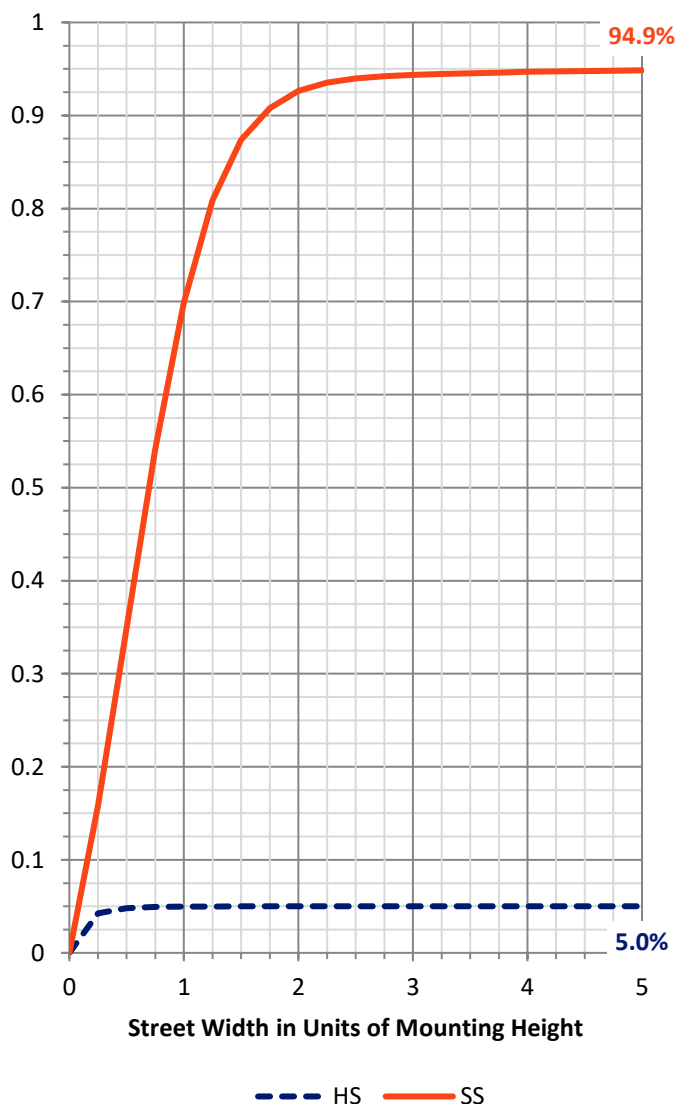
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 445.1 | 0.0 | 445.1 |
| | % Fixture | 5.0 | 0.0 | 5.0 |
| Street Side | Lumens | 8383.0 | 0.0 | 8383.0 |
| | % Fixture | 95.0 | 0.0 | 95.0 |
| Total | Lumens | 8828.1 | 0.0 | 8828.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 99.0 | 1.1 |
| 10°-20° | 319.3 | 3.6 |
| 20°-30° | 641.9 | 7.3 |
| 30°-40° | 1214.2 | 13.8 |
| 40°-50° | 1816.4 | 20.6 |
| 50°-60° | 2097.1 | 23.8 |
| 60°-70° | 1858.9 | 21.1 |
| 70°-80° | 751.4 | 8.5 |
| 80°-90° | 30.0 | 0.3 |
| 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° | 8828.1 | 100.0 |
| 0°-180° | 8828.1 | 100.0 |

Coefficient of Utilization

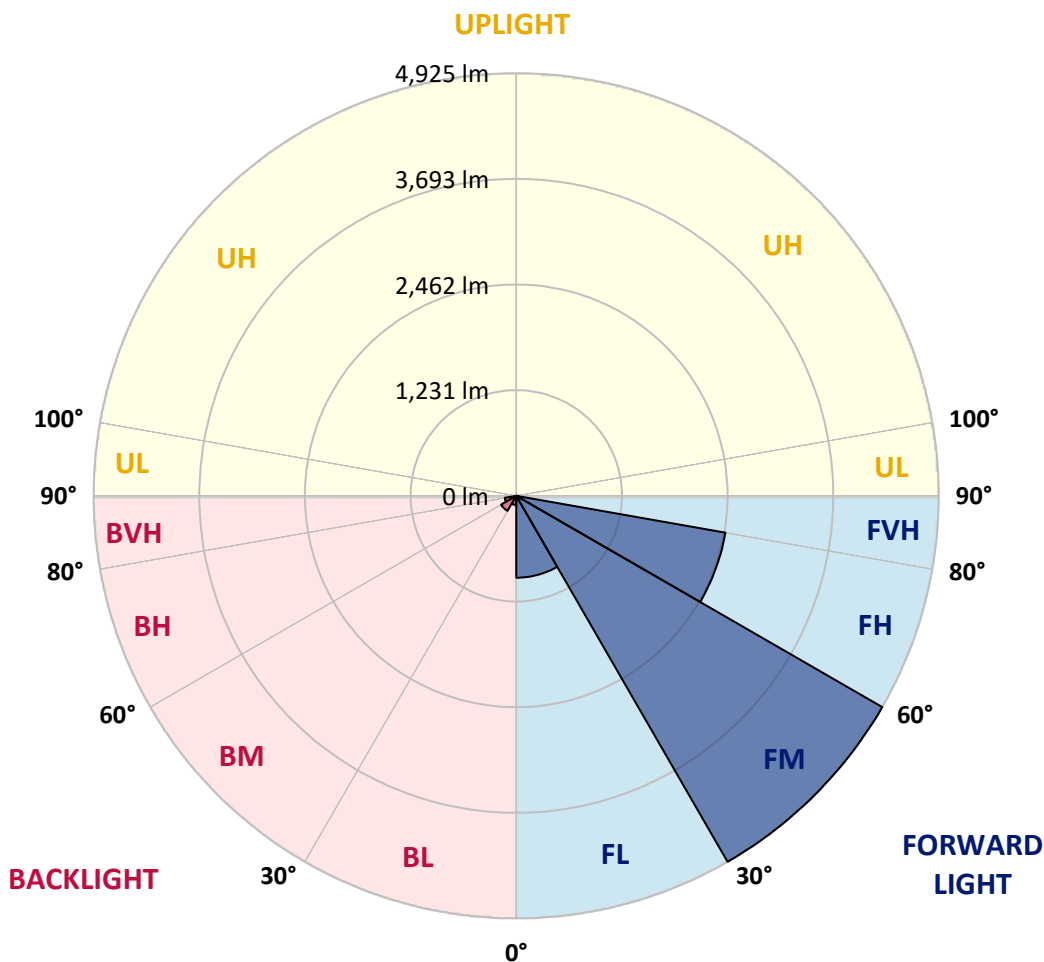


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 954.4 | 10.8 | | | |
| FM (30°-60°) | 4924.6 | 55.8 | | | |
| FH (60°-80°) | 2475.3 | 28.0 | | | G2/5000 |
| FVH (80°-90°) | 28.7 | 0.3 | | | G1/100 |
| BL (0°-30°) | 105.8 | 1.2 | B0/110 | | |
| BM (30°-60°) | 203.0 | 2.3 | B0/220 | | |
| BH (60°-80°) | 135.0 | 1.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.3 | 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1097.1 | 1097.1 | 1097.1 | 1097.1 | 1097.1 | 1097.1 | 1097.1 | 1097.1 | 1097.1 | 1097.1 | 1097.1 |
| 2.5° | 1526.4 | 1531.7 | 1521.1 | 1497.3 | 1476.1 | 1425.7 | 1386.0 | 1314.4 | 1237.6 | 1237.6 | 1144.8 |
| 5° | 1706.6 | 1701.3 | 1696.0 | 1677.5 | 1661.6 | 1619.2 | 1566.2 | 1489.3 | 1370.1 | 1359.5 | 1205.8 |
| 7.5° | 1794.1 | 1788.8 | 1778.2 | 1770.2 | 1770.2 | 1741.1 | 1690.7 | 1611.2 | 1478.7 | 1468.1 | 1261.4 |
| 10° | 1897.4 | 1886.8 | 1886.8 | 1865.6 | 1860.3 | 1825.9 | 1799.4 | 1730.5 | 1584.7 | 1571.5 | 1325.0 |
| 12.5° | 2019.3 | 2008.7 | 2011.4 | 1992.8 | 1984.9 | 1947.8 | 1910.7 | 1844.4 | 1698.7 | 1685.4 | 1399.2 |
| 15° | 2088.2 | 2082.9 | 2098.8 | 2101.5 | 2106.8 | 2075.0 | 2040.5 | 1971.6 | 1825.9 | 1807.3 | 1486.7 |
| 17.5° | 2128.0 | 2128.0 | 2146.5 | 2181.0 | 2220.7 | 2202.2 | 2175.7 | 2120.0 | 1955.7 | 1945.1 | 1579.4 |
| 20° | 2204.8 | 2196.9 | 2228.7 | 2260.5 | 2310.8 | 2326.7 | 2318.8 | 2276.4 | 2112.1 | 2080.3 | 1680.1 |
| 22.5° | 2332.0 | 2321.4 | 2350.6 | 2390.3 | 2451.3 | 2456.6 | 2461.9 | 2440.7 | 2271.1 | 2239.3 | 1786.1 |
| 25° | 2631.5 | 2605.0 | 2578.5 | 2573.2 | 2597.0 | 2618.2 | 2602.3 | 2618.2 | 2451.3 | 2422.1 | 1900.1 |
| 27.5° | 3214.5 | 3169.4 | 3042.2 | 2901.8 | 2803.7 | 2822.3 | 2771.9 | 2801.1 | 2658.0 | 2620.9 | 2006.1 |
| 30° | 3773.6 | 3728.6 | 3625.2 | 3376.1 | 3150.9 | 3050.2 | 2976.0 | 2965.4 | 2870.0 | 2827.6 | 2128.0 |
| 32.5° | 4163.2 | 4134.0 | 4065.1 | 3898.2 | 3617.3 | 3360.2 | 3217.1 | 3166.8 | 3153.5 | 3087.3 | 2284.3 |
| 35° | 4428.2 | 4401.7 | 4354.0 | 4218.8 | 4012.1 | 3725.9 | 3479.5 | 3368.2 | 3468.9 | 3389.4 | 2461.9 |
| 37.5° | 4587.2 | 4568.7 | 4515.6 | 4422.9 | 4311.6 | 4123.4 | 3805.4 | 3627.9 | 3786.9 | 3712.7 | 2689.8 |
| 40° | 4703.8 | 4656.1 | 4619.0 | 4547.4 | 4510.3 | 4449.4 | 4176.4 | 3898.2 | 4131.4 | 4054.5 | 2915.0 |
| 42.5° | 4714.4 | 4693.2 | 4664.1 | 4621.7 | 4627.0 | 4666.7 | 4571.3 | 4210.9 | 4478.5 | 4407.0 | 3153.5 |
| 45° | 4711.8 | 4690.6 | 4669.4 | 4627.0 | 4653.5 | 4801.9 | 4889.3 | 4539.5 | 4817.8 | 4743.6 | 3405.3 |
| 47.5° | 4634.9 | 4619.0 | 4624.3 | 4624.3 | 4658.8 | 4860.2 | 5135.8 | 4873.4 | 5157.0 | 5085.4 | 3710.0 |
| 50° | 4364.6 | 4380.5 | 4486.5 | 4542.1 | 4603.1 | 4862.8 | 5308.0 | 5223.2 | 5522.7 | 5472.3 | 4004.2 |
| 52.5° | 3508.6 | 3598.7 | 4028.0 | 4322.2 | 4499.7 | 4809.8 | 5419.3 | 5591.6 | 5986.4 | 5909.6 | 4338.1 |
| 55° | 2681.8 | 2687.1 | 3100.5 | 3784.2 | 4295.7 | 4714.4 | 5482.9 | 5840.7 | 6338.9 | 6296.5 | 4632.3 |
| 57.5° | 2175.7 | 2173.0 | 2377.1 | 2991.9 | 3765.7 | 4563.4 | 5498.8 | 6023.5 | 6712.5 | 6633.0 | 4971.5 |
| 60° | 1778.2 | 1767.6 | 1889.5 | 2268.4 | 3076.7 | 4208.2 | 5440.5 | 6171.9 | 7096.8 | 7067.6 | 5326.6 |
| 62.5° | 1285.3 | 1295.9 | 1457.5 | 1751.7 | 2371.8 | 3553.7 | 5316.0 | 6217.0 | 7560.5 | 7531.4 | 5724.1 |
| 65° | 739.4 | 771.2 | 948.7 | 1261.4 | 1817.9 | 2779.9 | 4960.9 | 6182.5 | 8013.7 | 8011.0 | 6092.4 |
| 67.5° | 371.0 | 373.7 | 469.1 | 704.9 | 1221.7 | 2080.3 | 4176.4 | 5965.2 | 8390.0 | 8331.7 | 6304.4 |
| 70° | 238.5 | 243.8 | 275.6 | 363.1 | 675.8 | 1441.6 | 3190.6 | 5350.4 | 8154.1 | 8132.9 | 5994.4 |
| 72.5° | 182.9 | 188.2 | 214.7 | 238.5 | 352.5 | 818.9 | 2159.8 | 4157.9 | 6807.9 | 6749.6 | 4674.7 |
| 75° | 143.1 | 145.8 | 172.3 | 193.5 | 235.9 | 384.3 | 1083.9 | 2591.7 | 4385.8 | 4234.7 | 2660.6 |
| 77.5° | 114.0 | 116.6 | 129.9 | 153.7 | 180.2 | 214.7 | 320.7 | 1166.0 | 1783.5 | 1592.7 | 863.9 |
| 80° | 74.2 | 76.9 | 98.1 | 119.3 | 153.7 | 140.5 | 124.6 | 336.6 | 381.6 | 344.5 | 153.7 |
| 82.5° | 42.4 | 45.1 | 66.3 | 95.4 | 116.6 | 79.5 | 71.6 | 98.1 | 90.1 | 87.5 | 47.7 |
| 85° | 13.3 | 13.3 | 45.1 | 66.3 | 53.0 | 23.9 | 45.1 | 34.5 | 29.2 | 26.5 | 15.9 |
| 87.5° | 2.7 | 2.7 | 21.2 | 23.9 | 8.0 | 2.7 | 5.3 | 8.0 | 10.6 | 13.3 | 8.0 |
| 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° | 1097.1 | 1097.1 | 1097.1 | 1097.1 | 1097.1 | 1097.1 | 1097.1 | 1097.1 | 1097.1 | 1097.1 | 1097.1 |
| 2.5° | 1099.8 | 1046.8 | 948.7 | 863.9 | 781.8 | 710.2 | 659.9 | 614.8 | 583.0 | 575.1 | 561.8 |
| 5° | 1107.7 | 1004.4 | 816.2 | 657.2 | 519.4 | 408.1 | 344.5 | 302.1 | 280.9 | 267.7 | 267.7 |
| 7.5° | 1115.7 | 962.0 | 691.7 | 479.7 | 328.6 | 249.1 | 209.4 | 190.8 | 182.9 | 180.2 | 177.6 |
| 10° | 1131.6 | 930.2 | 585.7 | 344.5 | 225.3 | 188.2 | 172.3 | 164.3 | 159.0 | 156.4 | 156.4 |
| 12.5° | 1158.1 | 903.7 | 487.6 | 254.4 | 185.5 | 167.0 | 156.4 | 145.8 | 140.5 | 137.8 | 137.8 |
| 15° | 1192.5 | 885.1 | 402.8 | 204.1 | 169.6 | 151.1 | 137.8 | 127.2 | 119.3 | 116.6 | 116.6 |
| 17.5° | 1240.2 | 871.9 | 331.3 | 180.2 | 156.4 | 135.2 | 119.3 | 108.7 | 100.7 | 98.1 | 98.1 |
| 20° | 1287.9 | 871.9 | 273.0 | 167.0 | 143.1 | 119.3 | 103.4 | 90.1 | 82.2 | 79.5 | 79.5 |
| 22.5° | 1351.5 | 869.2 | 227.9 | 153.7 | 127.2 | 103.4 | 87.5 | 71.6 | 66.3 | 63.6 | 63.6 |
| 25° | 1404.5 | 869.2 | 196.1 | 140.5 | 111.3 | 90.1 | 71.6 | 58.3 | 53.0 | 50.4 | 50.4 |
| 27.5° | 1468.1 | 861.3 | 167.0 | 124.6 | 95.4 | 74.2 | 58.3 | 47.7 | 42.4 | 39.8 | 39.8 |
| 30° | 1523.8 | 850.7 | 148.4 | 111.3 | 82.2 | 61.0 | 47.7 | 37.1 | 34.5 | 34.5 | 34.5 |
| 32.5° | 1616.5 | 842.7 | 132.5 | 95.4 | 68.9 | 50.4 | 37.1 | 29.2 | 26.5 | 26.5 | 26.5 |
| 35° | 1727.8 | 842.7 | 121.9 | 82.2 | 58.3 | 42.4 | 29.2 | 23.9 | 21.2 | 21.2 | 21.2 |
| 37.5° | 1873.6 | 850.7 | 108.7 | 71.6 | 47.7 | 34.5 | 23.9 | 18.6 | 15.9 | 15.9 | 15.9 |
| 40° | 2027.3 | 869.2 | 98.1 | 63.6 | 42.4 | 26.5 | 18.6 | 13.3 | 10.6 | 13.3 | 13.3 |
| 42.5° | 2210.1 | 887.8 | 87.5 | 55.7 | 34.5 | 21.2 | 13.3 | 8.0 | 5.3 | 8.0 | 8.0 |
| 45° | 2390.3 | 906.3 | 82.2 | 47.7 | 29.2 | 15.9 | 8.0 | 5.3 | 2.7 | 5.3 | 5.3 |
| 47.5° | 2612.9 | 951.4 | 76.9 | 42.4 | 23.9 | 13.3 | 5.3 | 2.7 | 0.0 | 2.7 | 2.7 |
| 50° | 2870.0 | 1001.7 | 68.9 | 34.5 | 18.6 | 10.6 | 5.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 3116.4 | 1044.1 | 61.0 | 29.2 | 15.9 | 8.0 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 3362.9 | 1070.6 | 53.0 | 23.9 | 13.3 | 8.0 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 3627.9 | 1086.5 | 47.7 | 21.2 | 10.6 | 5.3 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 3922.0 | 1086.5 | 39.8 | 18.6 | 8.0 | 5.3 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 4248.0 | 1054.7 | 37.1 | 15.9 | 8.0 | 5.3 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 4513.0 | 940.8 | 31.8 | 13.3 | 8.0 | 5.3 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 4523.6 | 744.7 | 29.2 | 10.6 | 8.0 | 5.3 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 4033.3 | 508.8 | 23.9 | 8.0 | 5.3 | 5.3 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 3018.4 | 273.0 | 21.2 | 8.0 | 5.3 | 2.7 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1627.1 | 106.0 | 13.3 | 8.0 | 5.3 | 2.7 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 474.4 | 53.0 | 8.0 | 5.3 | 5.3 | 2.7 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 87.5 | 26.5 | 5.3 | 5.3 | 5.3 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 23.9 | 10.6 | 2.7 | 2.7 | 2.7 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 10.6 | 5.3 | 2.7 | 2.7 | 2.7 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.3 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 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)