

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: P594555

Luminaire Tested: **ISS-PA1B-735-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594555
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-PA1B-735-U-T3-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3500K, 450mA 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: 3700 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

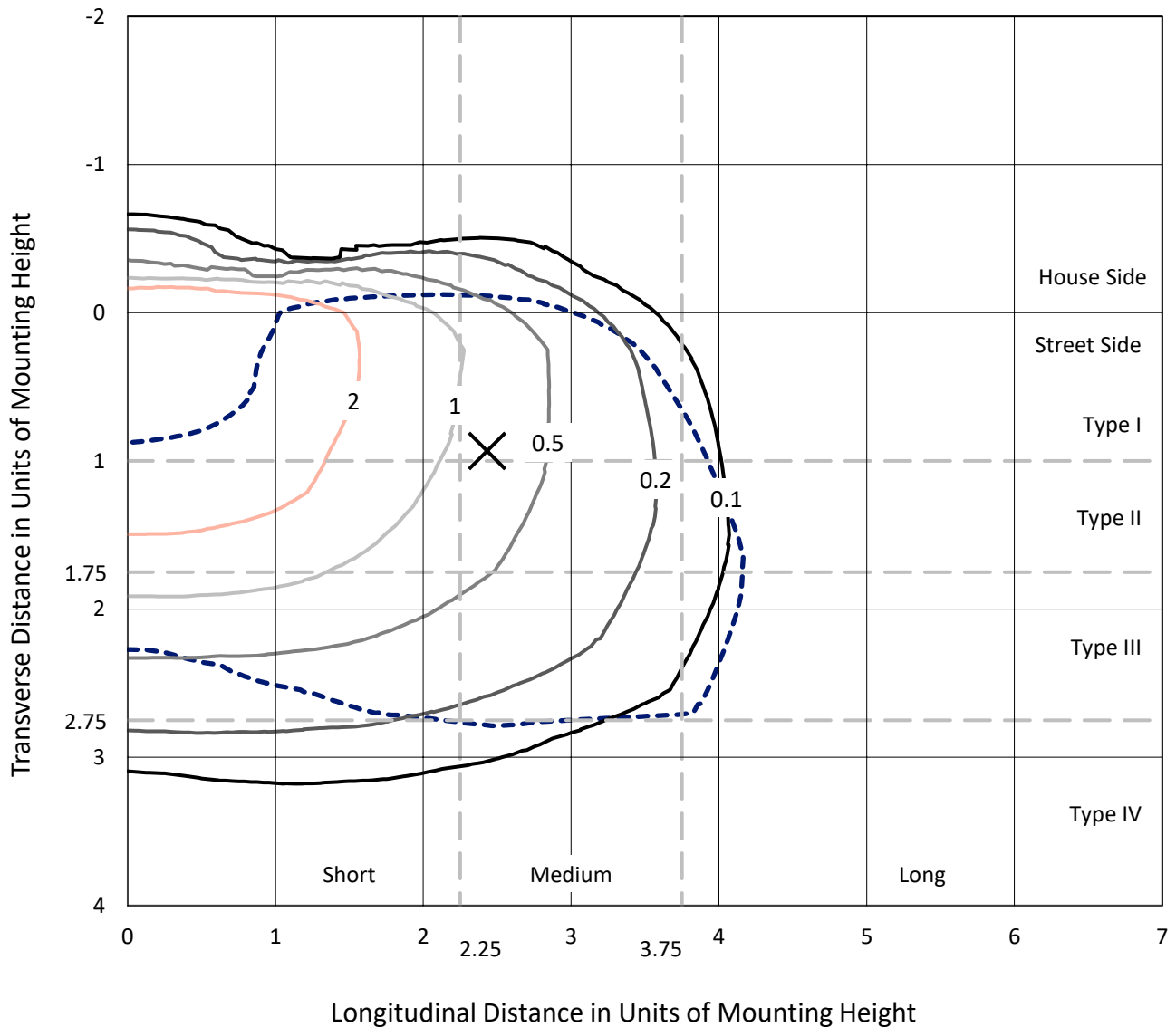
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

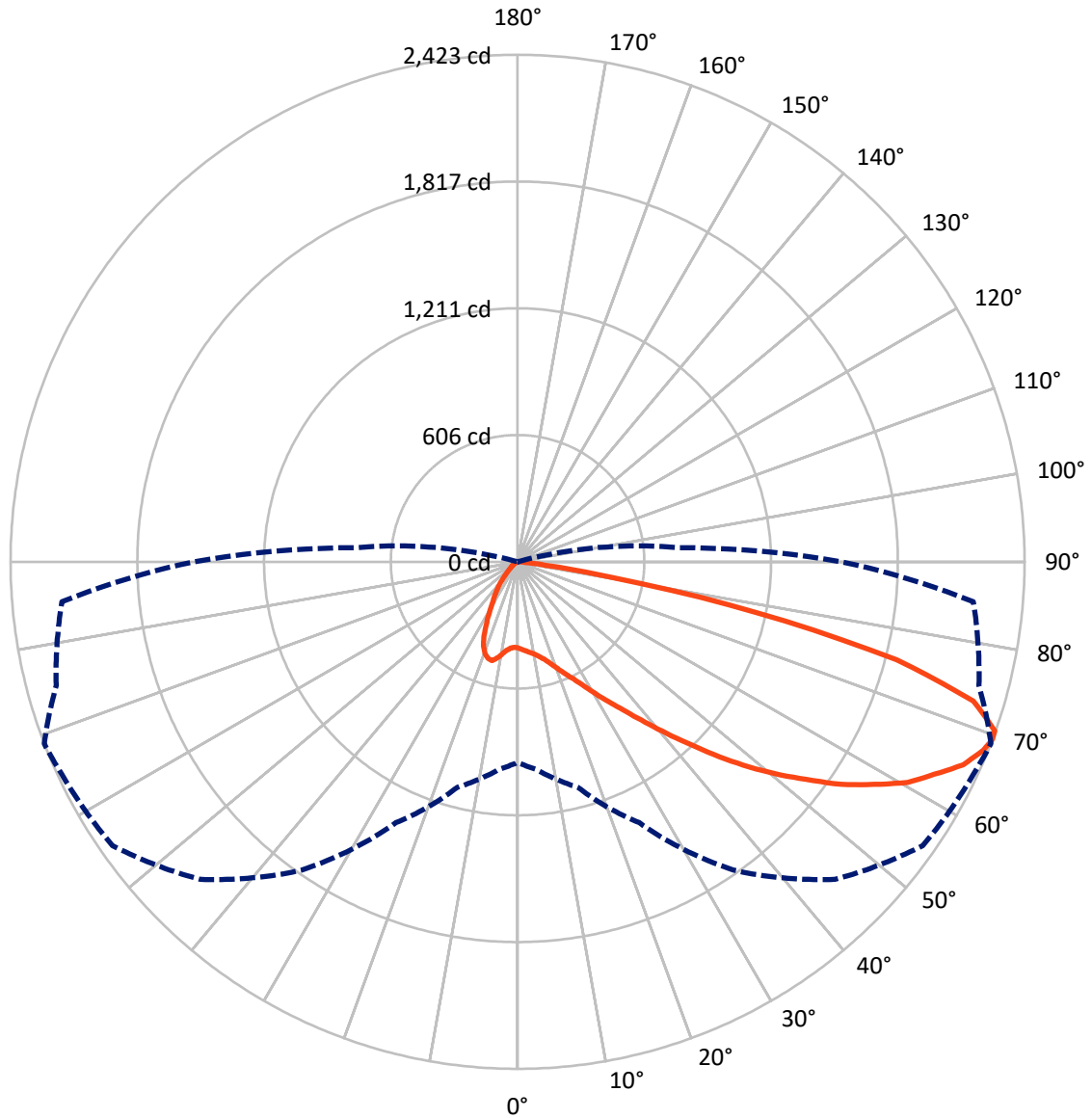
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.6 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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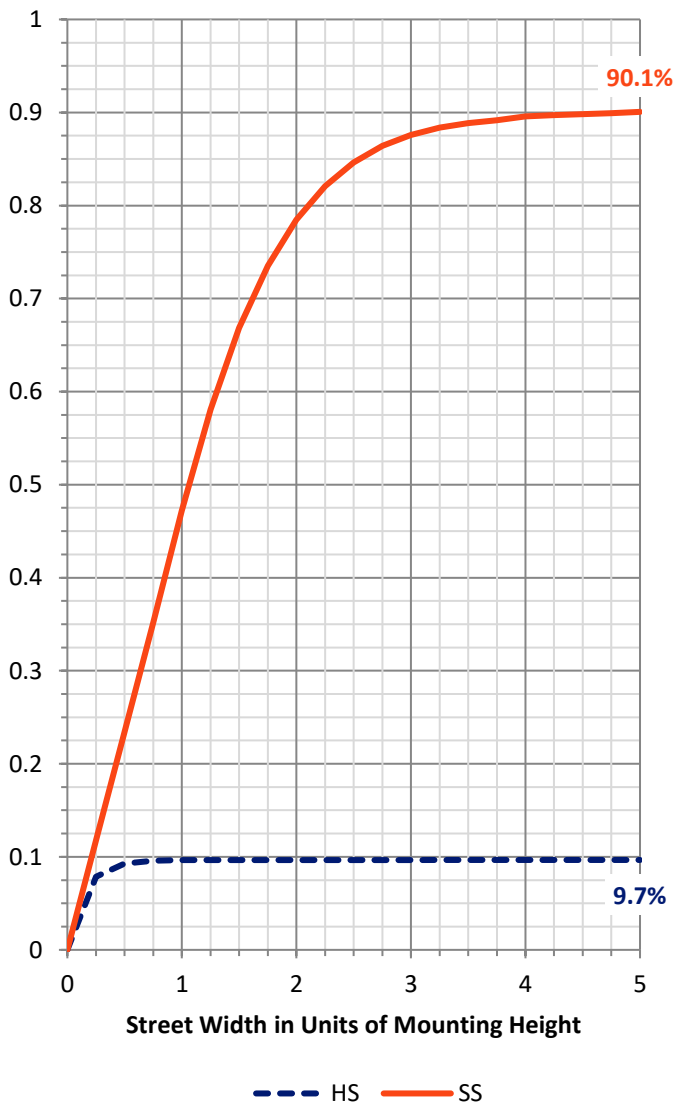
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 360.5 | 0.0 | 360.5 |
| | % Fixture | 9.7 | 0.0 | 9.7 |
| Street Side | Lumens | 3339.5 | 0.0 | 3339.5 |
| | % Fixture | 90.3 | 0.0 | 90.3 |
| Total | Lumens | 3700.0 | 0.0 | 3700.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 39.2 | 1.1 |
| 10°-20° | 103.8 | 2.8 |
| 20°-30° | 172.9 | 4.7 |
| 30°-40° | 311.2 | 8.4 |
| 40°-50° | 564.3 | 15.3 |
| 50°-60° | 881.9 | 23.8 |
| 60°-70° | 1020.3 | 27.6 |
| 70°-80° | 570.6 | 15.4 |
| 80°-90° | 35.6 | 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° | 3700.0 | 100.0 |
| 0°-180° | 3700.0 | 100.0 |

Coefficient of Utilization

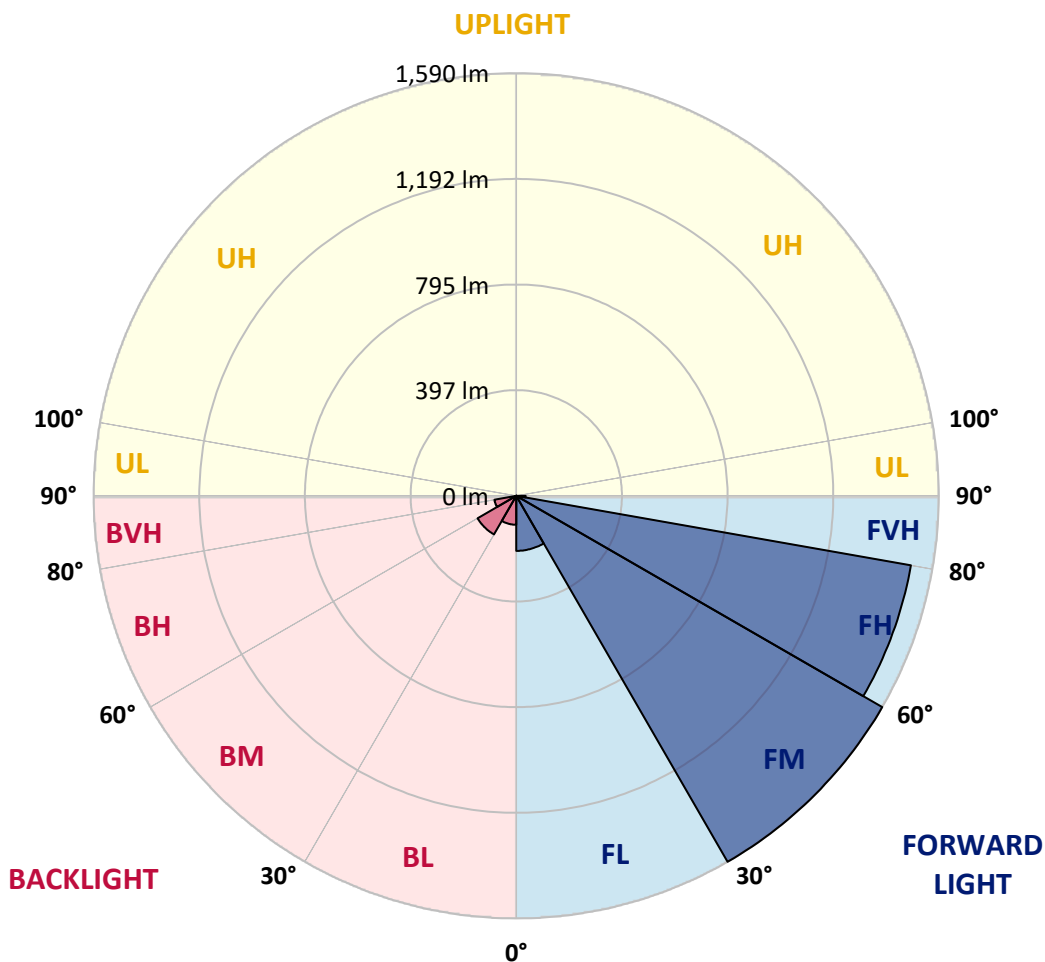


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 207.0 | 5.6 | | | |
| FM (30°-60°) | 1589.6 | 43.0 | | | |
| FH (60°-80°) | 1507.5 | 40.7 | | | G1/1800 |
| FVH (80°-90°) | 35.4 | 1.0 | | | G1/100 |
| BL (0°-30°) | 109.0 | 2.9 | B0/110 | | |
| BM (30°-60°) | 167.8 | 4.5 | B0/220 | | |
| BH (60°-80°) | 83.5 | 2.3 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 69° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 411.6 | 411.6 | 411.6 | 411.6 | 411.6 | 411.6 | 411.6 | 411.6 | 411.6 | 411.6 | 411.6 |
| 2.5° | 426.4 | 426.4 | 426.4 | 423.9 | 425.1 | 423.9 | 422.7 | 419.0 | 420.2 | 419.0 | 415.3 |
| 5° | 411.6 | 412.8 | 416.5 | 419.0 | 425.1 | 427.6 | 428.8 | 428.8 | 427.6 | 425.1 | 422.7 |
| 7.5° | 383.2 | 383.2 | 386.9 | 394.3 | 406.6 | 420.2 | 431.3 | 437.4 | 438.7 | 438.7 | 435.0 |
| 10° | 375.8 | 375.8 | 380.8 | 385.7 | 398.0 | 414.0 | 431.3 | 446.1 | 448.5 | 451.0 | 449.8 |
| 12.5° | 372.1 | 373.4 | 378.3 | 386.9 | 402.9 | 417.7 | 436.2 | 457.2 | 464.6 | 470.7 | 471.9 |
| 15° | 377.1 | 377.1 | 382.0 | 390.6 | 409.1 | 430.0 | 453.5 | 476.9 | 484.3 | 492.9 | 499.1 |
| 17.5° | 384.5 | 386.9 | 389.4 | 398.0 | 415.3 | 441.1 | 471.9 | 502.8 | 511.4 | 522.5 | 527.4 |
| 20° | 396.8 | 396.8 | 399.2 | 406.6 | 425.1 | 455.9 | 499.1 | 536.0 | 543.4 | 550.8 | 557.0 |
| 22.5° | 411.6 | 412.8 | 412.8 | 419.0 | 439.9 | 473.2 | 522.5 | 568.1 | 580.4 | 584.1 | 586.5 |
| 25° | 455.9 | 453.5 | 444.8 | 441.1 | 457.2 | 492.9 | 550.8 | 606.3 | 619.8 | 623.5 | 618.6 |
| 27.5° | 548.3 | 538.5 | 515.1 | 490.4 | 488.0 | 523.7 | 589.0 | 654.3 | 669.1 | 670.3 | 653.1 |
| 30° | 664.2 | 665.4 | 627.2 | 574.2 | 538.5 | 557.0 | 630.9 | 714.7 | 729.5 | 723.3 | 696.2 |
| 32.5° | 807.1 | 801.0 | 772.6 | 696.2 | 624.7 | 608.7 | 676.5 | 777.5 | 794.8 | 784.9 | 749.2 |
| 35° | 929.1 | 932.8 | 898.3 | 830.5 | 740.6 | 688.8 | 731.9 | 847.8 | 868.7 | 851.5 | 807.1 |
| 37.5° | 1031.4 | 1036.3 | 1015.4 | 959.9 | 879.8 | 798.5 | 804.6 | 930.3 | 958.7 | 941.4 | 886.0 |
| 40° | 1144.7 | 1148.4 | 1139.8 | 1079.4 | 1008.0 | 929.1 | 902.0 | 1025.2 | 1063.4 | 1040.0 | 982.1 |
| 42.5° | 1269.2 | 1282.8 | 1268.0 | 1219.9 | 1146.0 | 1078.2 | 1037.5 | 1141.0 | 1179.2 | 1164.5 | 1086.8 |
| 45° | 1439.2 | 1440.5 | 1423.2 | 1375.2 | 1298.8 | 1243.3 | 1194.0 | 1264.3 | 1313.6 | 1295.1 | 1203.9 |
| 47.5° | 1564.9 | 1573.6 | 1563.7 | 1530.4 | 1468.8 | 1431.9 | 1364.1 | 1399.8 | 1451.6 | 1428.2 | 1324.6 |
| 50° | 1661.0 | 1684.5 | 1675.8 | 1685.7 | 1654.9 | 1638.9 | 1535.4 | 1540.3 | 1590.8 | 1571.1 | 1447.9 |
| 52.5° | 1714.0 | 1743.6 | 1746.1 | 1796.6 | 1822.5 | 1861.9 | 1701.7 | 1694.3 | 1726.4 | 1709.1 | 1573.6 |
| 55° | 1706.6 | 1714.0 | 1775.6 | 1868.1 | 1969.1 | 2059.1 | 1864.4 | 1833.6 | 1877.9 | 1829.9 | 1706.6 |
| 57.5° | 1635.2 | 1653.7 | 1762.1 | 1876.7 | 2055.4 | 2186.0 | 2004.8 | 1970.3 | 2007.3 | 1943.2 | 1843.4 |
| 60° | 1532.9 | 1560.0 | 1699.2 | 1863.1 | 2105.9 | 2262.4 | 2141.6 | 2107.1 | 2140.4 | 2062.8 | 1998.7 |
| 62.5° | 1440.5 | 1452.8 | 1581.0 | 1806.5 | 2076.3 | 2258.7 | 2247.6 | 2215.6 | 2235.3 | 2153.9 | 2131.8 |
| 65° | 1308.6 | 1313.6 | 1440.5 | 1704.2 | 2011.0 | 2234.0 | 2305.5 | 2317.8 | 2338.8 | 2230.3 | 2226.6 |
| 67.5° | 1105.3 | 1116.4 | 1242.1 | 1525.5 | 1902.6 | 2186.0 | 2351.1 | 2375.7 | 2400.4 | 2271.0 | 2243.9 |
| 69° | 958.7 | 994.4 | 1115.2 | 1375.2 | 1797.8 | 2145.3 | 2363.4 | 2402.9 | 2422.6 | 2282.1 | 2186.0 |
| 70° | 839.1 | 870.0 | 1009.2 | 1259.3 | 1705.4 | 2099.7 | 2372.0 | 2399.2 | 2418.9 | 2258.7 | 2091.1 |
| 72.5° | 421.4 | 460.9 | 651.9 | 919.2 | 1355.5 | 1891.5 | 2327.7 | 2298.1 | 2277.2 | 2077.5 | 1691.9 |
| 75° | 162.7 | 168.8 | 279.7 | 523.7 | 847.8 | 1388.7 | 1987.6 | 1932.1 | 1870.5 | 1576.0 | 1003.0 |
| 77.5° | 90.0 | 88.7 | 122.0 | 231.7 | 361.0 | 679.0 | 1344.4 | 1255.6 | 1170.6 | 846.5 | 406.6 |
| 80° | 38.2 | 40.7 | 53.0 | 110.9 | 189.8 | 235.4 | 653.1 | 580.4 | 462.1 | 268.6 | 97.3 |
| 82.5° | 23.4 | 24.6 | 37.0 | 67.8 | 131.8 | 90.0 | 211.9 | 181.1 | 133.1 | 72.7 | 23.4 |
| 85° | 7.4 | 8.6 | 25.9 | 45.6 | 64.1 | 37.0 | 48.1 | 41.9 | 37.0 | 30.8 | 7.4 |
| 87.5° | 1.2 | 1.2 | 9.9 | 24.6 | 17.3 | 6.2 | 4.9 | 8.6 | 13.6 | 14.8 | 2.5 |
| 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° | 411.6 | 411.6 | 411.6 | 411.6 | 411.6 | 411.6 | 411.6 | 411.6 | 411.6 | 411.6 | 411.6 |
| 2.5° | 414.0 | 411.6 | 409.1 | 407.9 | 407.9 | 405.4 | 404.2 | 402.9 | 402.9 | 401.7 | 401.7 |
| 5° | 419.0 | 416.5 | 414.0 | 412.8 | 410.3 | 409.1 | 409.1 | 409.1 | 407.9 | 409.1 | 410.3 |
| 7.5° | 431.3 | 427.6 | 426.4 | 425.1 | 425.1 | 421.4 | 415.3 | 399.2 | 383.2 | 378.3 | 373.4 |
| 10° | 448.5 | 447.3 | 447.3 | 447.3 | 438.7 | 406.6 | 362.3 | 322.8 | 301.9 | 284.6 | 284.6 |
| 12.5° | 473.2 | 473.2 | 471.9 | 468.2 | 423.9 | 346.3 | 277.3 | 218.1 | 183.6 | 163.9 | 166.4 |
| 15° | 500.3 | 499.1 | 501.5 | 478.1 | 373.4 | 267.4 | 167.6 | 118.3 | 99.8 | 97.3 | 97.3 |
| 17.5° | 528.6 | 531.1 | 528.6 | 452.2 | 306.8 | 165.1 | 99.8 | 90.0 | 87.5 | 87.5 | 87.5 |
| 20° | 558.2 | 555.7 | 552.0 | 407.9 | 223.0 | 103.5 | 86.3 | 83.8 | 81.3 | 80.1 | 80.1 |
| 22.5° | 587.8 | 585.3 | 560.7 | 351.2 | 139.2 | 85.0 | 81.3 | 76.4 | 72.7 | 71.5 | 71.5 |
| 25° | 616.1 | 616.1 | 544.6 | 278.5 | 94.9 | 80.1 | 73.9 | 69.0 | 65.3 | 61.6 | 61.6 |
| 27.5° | 651.9 | 654.3 | 518.8 | 194.7 | 80.1 | 73.9 | 66.5 | 59.1 | 54.2 | 51.8 | 51.8 |
| 30° | 692.5 | 696.2 | 476.9 | 126.9 | 72.7 | 65.3 | 57.9 | 49.3 | 41.9 | 39.4 | 38.2 |
| 32.5° | 740.6 | 744.3 | 428.8 | 83.8 | 65.3 | 56.7 | 48.1 | 37.0 | 29.6 | 28.3 | 27.1 |
| 35° | 802.2 | 793.6 | 370.9 | 66.5 | 56.7 | 48.1 | 37.0 | 25.9 | 20.9 | 19.7 | 19.7 |
| 37.5° | 878.6 | 860.1 | 304.4 | 57.9 | 48.1 | 38.2 | 27.1 | 17.3 | 13.6 | 13.6 | 12.3 |
| 40° | 966.1 | 914.3 | 235.4 | 51.8 | 40.7 | 29.6 | 17.3 | 11.1 | 8.6 | 8.6 | 8.6 |
| 42.5° | 1062.2 | 959.9 | 167.6 | 45.6 | 33.3 | 20.9 | 11.1 | 6.2 | 4.9 | 4.9 | 4.9 |
| 45° | 1173.1 | 1001.8 | 114.6 | 39.4 | 28.3 | 14.8 | 6.2 | 2.5 | 2.5 | 2.5 | 2.5 |
| 47.5° | 1284.0 | 1028.9 | 76.4 | 34.5 | 20.9 | 8.6 | 3.7 | 1.2 | 1.2 | 1.2 | 1.2 |
| 50° | 1396.1 | 1049.9 | 59.1 | 29.6 | 14.8 | 4.9 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 1495.9 | 1064.6 | 48.1 | 24.6 | 9.9 | 3.7 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 1582.2 | 1065.9 | 41.9 | 19.7 | 7.4 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 1669.7 | 1056.0 | 35.7 | 14.8 | 4.9 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 1722.7 | 1030.1 | 28.3 | 11.1 | 3.7 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 1754.7 | 987.0 | 22.2 | 7.4 | 2.5 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 1736.2 | 932.8 | 16.0 | 4.9 | 2.5 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 1650.0 | 849.0 | 11.1 | 3.7 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 69° | 1547.7 | 772.6 | 9.9 | 2.5 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 1457.7 | 713.5 | 8.6 | 2.5 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1085.6 | 459.6 | 7.4 | 2.5 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 610.0 | 154.0 | 4.9 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 229.2 | 39.4 | 2.5 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 50.5 | 9.9 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 11.1 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 3.7 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.2 | 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)