

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: INVUE

Report Number: P401650

Luminaire Tested: **ENC-SA1E-735-U-SL3**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENC-SA1E-735-U-SL3
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6483 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

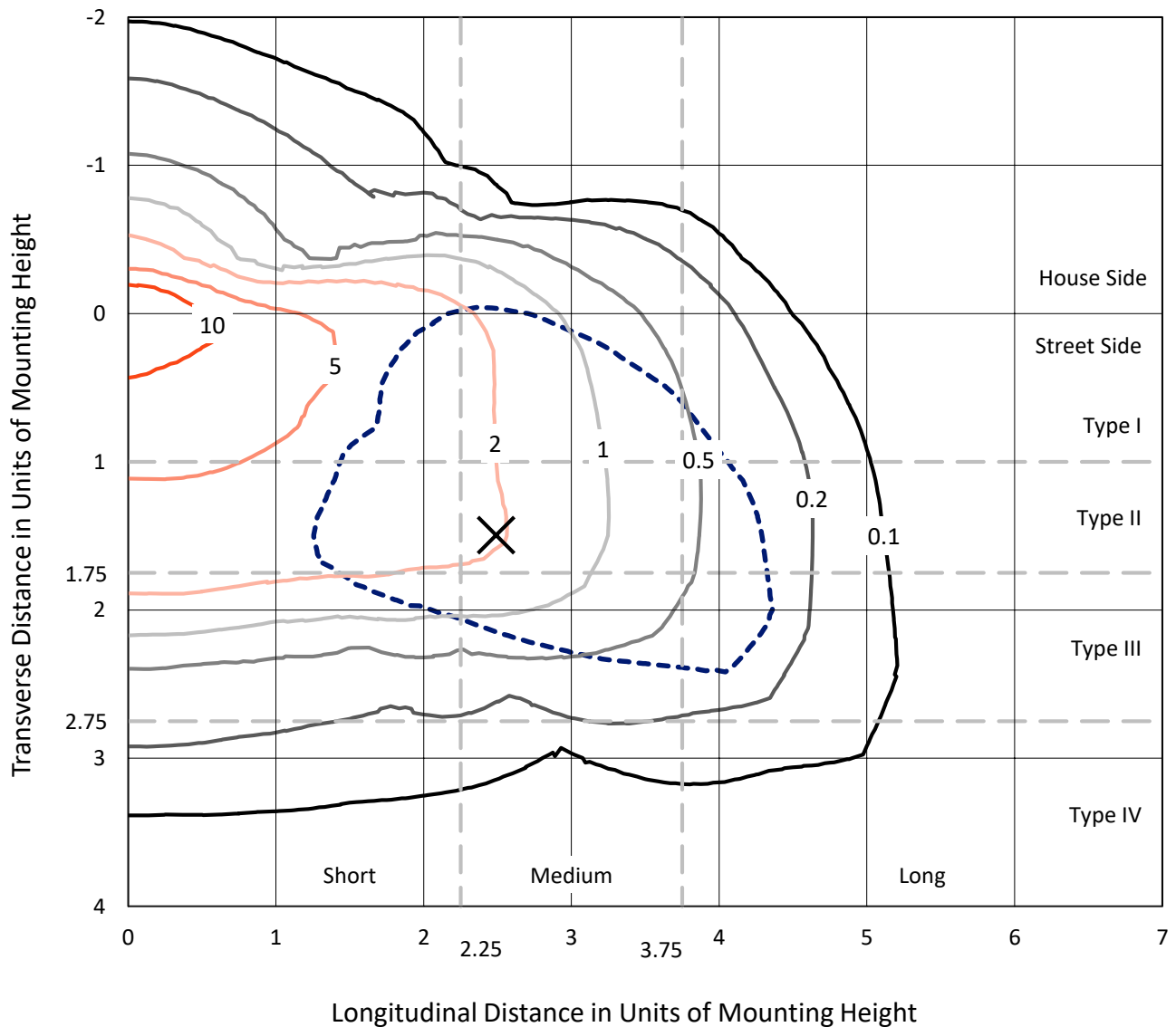
Input Watts (W): 57.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

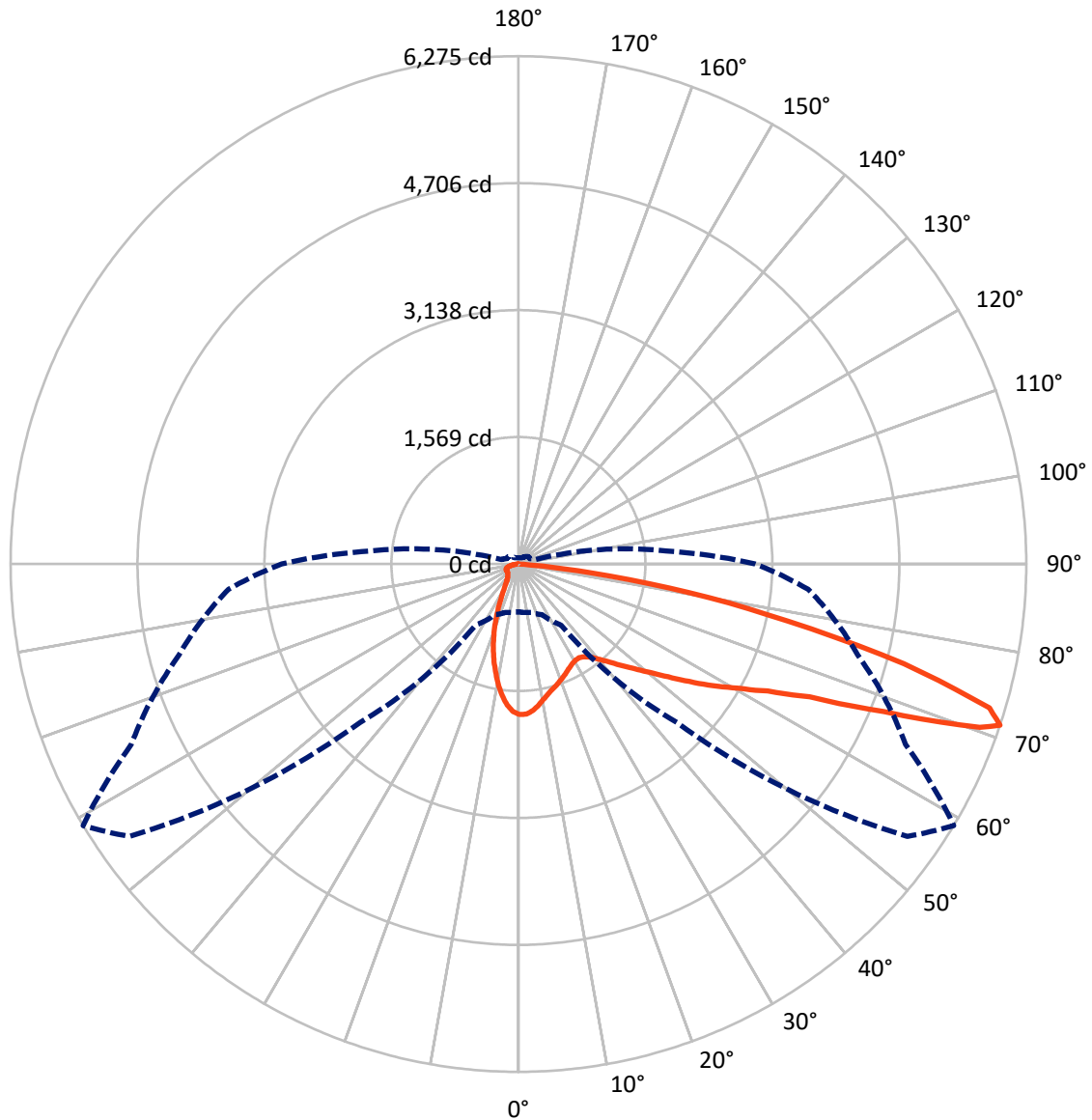
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1100.3 | 0.0 | 1100.3 |
| | % Fixture | 17.0 | 0.0 | 17.0 |
| Street Side | Lumens | 5382.7 | 0.0 | 5382.7 |
| | % Fixture | 83.0 | 0.0 | 83.0 |
| Total | Lumens | 6483.0 | 0.0 | 6483.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 160.7 | 2.5 |
| 10°-20° | 361.0 | 5.6 |
| 20°-30° | 458.9 | 7.1 |
| 30°-40° | 586.6 | 9.0 |
| 40°-50° | 814.1 | 12.6 |
| 50°-60° | 1205.3 | 18.6 |
| 60°-70° | 1629.1 | 25.1 |
| 70°-80° | 1155.2 | 17.8 |
| 80°-90° | 112.2 | 1.7 |
| 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° | 6483.0 | 100.0 |
| 0°-180° | 6483.0 | 100.0 |



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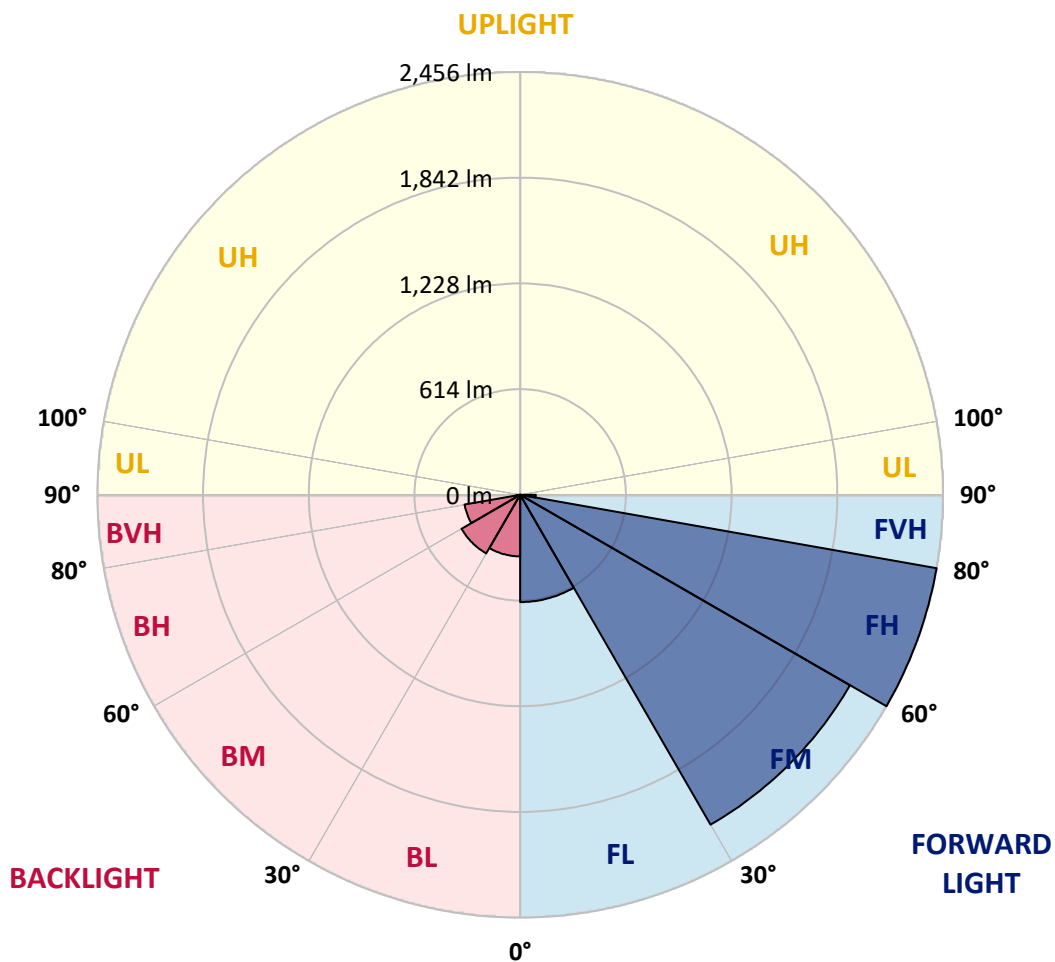
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 623.1 | 9.6 | | | |
| FM | (30°-60°) | 2212.4 | 34.1 | | | |
| FH | (60°-80°) | 2456.4 | 37.9 | | | G2/5000 |
| FVH | (80°-90°) | 90.8 | 1.4 | | | G1/100 |
| BL | (0°-30°) | 357.5 | 5.5 | B1/500 | | |
| BM | (30°-60°) | 393.5 | 6.1 | B1/1000 | | |
| BH | (60°-80°) | 327.9 | 5.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 21.4 | 0.3 | | | G1/100 |
| 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° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1860.0 | 1860.0 | 1860.0 | 1860.0 | 1860.0 | 1860.0 | 1860.0 | 1860.0 | 1860.0 | 1860.0 | 1860.0 |
| 2.5° | 1844.0 | 1850.6 | 1853.4 | 1858.1 | 1858.1 | 1860.0 | 1858.1 | 1857.1 | 1860.9 | 1857.1 | 1846.8 |
| 5° | 1762.3 | 1765.1 | 1773.5 | 1782.9 | 1792.3 | 1812.0 | 1817.7 | 1821.4 | 1829.9 | 1831.8 | 1821.4 |
| 7.5° | 1651.4 | 1661.8 | 1673.0 | 1685.2 | 1705.0 | 1732.2 | 1755.7 | 1765.1 | 1781.1 | 1790.4 | 1775.4 |
| 10° | 1557.5 | 1563.1 | 1568.8 | 1590.4 | 1621.4 | 1658.9 | 1683.4 | 1701.2 | 1726.6 | 1738.8 | 1724.7 |
| 12.5° | 1463.5 | 1468.2 | 1479.5 | 1508.6 | 1540.6 | 1585.7 | 1629.8 | 1643.9 | 1674.0 | 1698.4 | 1687.1 |
| 15° | 1391.2 | 1391.2 | 1399.7 | 1431.6 | 1465.4 | 1525.5 | 1577.2 | 1598.8 | 1636.4 | 1671.1 | 1657.1 |
| 17.5° | 1327.3 | 1330.2 | 1335.8 | 1356.5 | 1403.4 | 1466.4 | 1532.1 | 1559.4 | 1606.3 | 1651.4 | 1632.6 |
| 20° | 1291.6 | 1289.8 | 1293.5 | 1303.8 | 1341.4 | 1408.1 | 1487.0 | 1519.0 | 1577.2 | 1639.2 | 1609.1 |
| 22.5° | 1279.4 | 1277.5 | 1274.7 | 1273.8 | 1298.2 | 1354.6 | 1439.1 | 1478.6 | 1550.9 | 1632.6 | 1587.5 |
| 25° | 1288.8 | 1288.8 | 1280.4 | 1264.4 | 1275.7 | 1314.2 | 1395.9 | 1438.2 | 1521.8 | 1627.9 | 1567.8 |
| 27.5° | 1314.2 | 1314.2 | 1302.0 | 1281.3 | 1276.6 | 1293.5 | 1358.3 | 1403.4 | 1497.4 | 1630.8 | 1551.8 |
| 30° | 1348.9 | 1348.0 | 1335.8 | 1317.9 | 1303.8 | 1298.2 | 1340.5 | 1381.8 | 1480.5 | 1643.0 | 1544.3 |
| 32.5° | 1388.4 | 1386.5 | 1380.9 | 1368.7 | 1351.8 | 1327.3 | 1342.4 | 1379.0 | 1476.7 | 1664.6 | 1545.3 |
| 35° | 1435.4 | 1432.5 | 1435.4 | 1428.8 | 1412.8 | 1386.5 | 1377.1 | 1406.2 | 1495.5 | 1705.0 | 1561.2 |
| 37.5° | 1476.7 | 1474.8 | 1488.9 | 1492.7 | 1488.9 | 1454.1 | 1441.9 | 1460.7 | 1539.6 | 1768.8 | 1594.1 |
| 40° | 1511.5 | 1513.3 | 1538.7 | 1565.9 | 1571.6 | 1541.5 | 1533.1 | 1549.0 | 1611.0 | 1846.8 | 1653.3 |
| 42.5° | 1550.0 | 1555.6 | 1593.2 | 1642.0 | 1660.8 | 1641.1 | 1645.8 | 1657.1 | 1701.2 | 1953.0 | 1738.8 |
| 45° | 1587.5 | 1599.8 | 1651.4 | 1714.4 | 1762.3 | 1762.3 | 1778.2 | 1789.5 | 1817.7 | 2086.3 | 1863.7 |
| 47.5° | 1653.3 | 1661.8 | 1718.1 | 1794.2 | 1867.5 | 1891.0 | 1935.1 | 1931.3 | 1953.0 | 2232.9 | 2010.3 |
| 50° | 1738.8 | 1752.9 | 1810.2 | 1889.1 | 1982.1 | 2048.8 | 2099.5 | 2107.0 | 2115.5 | 2383.2 | 2184.0 |
| 52.5° | 1857.1 | 1874.0 | 1921.0 | 1994.3 | 2104.2 | 2213.2 | 2320.3 | 2315.6 | 2304.3 | 2546.6 | 2383.2 |
| 55° | 1976.4 | 1994.3 | 2038.4 | 2097.6 | 2227.3 | 2394.5 | 2569.2 | 2562.6 | 2510.9 | 2713.8 | 2567.3 |
| 57.5° | 2097.6 | 2112.6 | 2158.7 | 2210.3 | 2363.5 | 2608.6 | 2832.2 | 2836.9 | 2730.8 | 2899.8 | 2749.5 |
| 60° | 2148.3 | 2170.9 | 2284.6 | 2384.1 | 2575.8 | 2846.3 | 3100.9 | 3113.1 | 2959.0 | 3087.7 | 2950.6 |
| 62.5° | 1919.1 | 1946.4 | 2134.3 | 2402.9 | 2867.0 | 3304.7 | 3450.3 | 3457.8 | 3234.3 | 3295.3 | 3170.4 |
| 65° | 1420.3 | 1419.4 | 1613.8 | 2015.9 | 2808.7 | 3920.0 | 4073.1 | 3954.8 | 3576.2 | 3570.6 | 3460.6 |
| 67.5° | 813.5 | 837.9 | 899.9 | 1202.4 | 2139.9 | 4033.7 | 5181.6 | 4872.5 | 4182.1 | 3998.9 | 3847.7 |
| 70° | 655.7 | 650.0 | 668.8 | 749.6 | 1166.7 | 3316.9 | 5904.0 | 6044.9 | 5042.6 | 4348.4 | 3760.3 |
| 71° | 590.9 | 599.3 | 618.1 | 691.4 | 920.6 | 2767.4 | 5868.3 | 6275.0 | 5277.4 | 4339.0 | 3594.0 |
| 72.5° | 508.2 | 510.1 | 553.3 | 639.7 | 756.2 | 1952.0 | 5425.8 | 6085.3 | 5523.5 | 4215.9 | 3349.8 |
| 75° | 345.7 | 350.4 | 418.0 | 514.8 | 690.4 | 927.2 | 3882.4 | 4922.3 | 5027.5 | 3939.7 | 2766.5 |
| 77.5° | 198.2 | 202.0 | 250.8 | 376.7 | 588.0 | 653.8 | 2383.2 | 3401.5 | 3614.7 | 2881.1 | 1483.3 |
| 80° | 102.4 | 107.1 | 139.0 | 237.7 | 449.0 | 528.9 | 1366.8 | 2139.0 | 2056.3 | 995.7 | 343.8 |
| 82.5° | 27.2 | 31.0 | 40.4 | 85.5 | 217.0 | 344.7 | 605.9 | 884.9 | 632.2 | 206.7 | 124.9 |
| 85° | 0.0 | 0.0 | 0.0 | 0.9 | 1.9 | 47.9 | 127.8 | 158.8 | 88.3 | 40.4 | 33.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 1.9 | 1.9 | 1.9 | 1.9 | 2.8 | 3.8 |
| 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° | 1860.0 | 1860.0 | 1860.0 | 1860.0 | 1860.0 | 1860.0 | 1860.0 | 1860.0 | 1860.0 | 1860.0 | 1860.0 |
| 2.5° | 1844.9 | 1844.9 | 1839.3 | 1830.8 | 1821.4 | 1799.8 | 1803.6 | 1786.7 | 1788.6 | 1786.7 | 1786.7 |
| 5° | 1813.0 | 1807.4 | 1793.3 | 1767.0 | 1737.8 | 1699.3 | 1693.7 | 1662.7 | 1644.8 | 1639.2 | 1645.8 |
| 7.5° | 1768.8 | 1752.9 | 1717.2 | 1671.1 | 1615.7 | 1565.9 | 1519.9 | 1478.6 | 1447.6 | 1434.4 | 1428.8 |
| 10° | 1710.6 | 1690.9 | 1632.6 | 1551.8 | 1475.8 | 1397.8 | 1325.5 | 1278.5 | 1216.5 | 1197.7 | 1192.1 |
| 12.5° | 1662.7 | 1628.9 | 1541.5 | 1428.8 | 1310.4 | 1207.1 | 1109.4 | 1010.8 | 951.6 | 909.3 | 902.7 |
| 15° | 1621.4 | 1573.4 | 1448.5 | 1302.9 | 1155.4 | 1012.6 | 880.2 | 747.7 | 664.1 | 628.4 | 603.1 |
| 17.5° | 1584.7 | 1522.7 | 1355.5 | 1166.7 | 984.5 | 795.6 | 634.1 | 507.3 | 454.7 | 427.4 | 428.4 |
| 20° | 1547.1 | 1468.2 | 1258.8 | 1030.5 | 815.4 | 605.9 | 448.1 | 388.9 | 362.6 | 357.0 | 354.1 |
| 22.5° | 1511.5 | 1406.2 | 1156.4 | 896.2 | 642.5 | 445.3 | 360.7 | 331.6 | 325.0 | 325.0 | 325.0 |
| 25° | 1471.1 | 1343.3 | 1053.0 | 759.0 | 486.6 | 351.3 | 310.0 | 299.7 | 301.5 | 305.3 | 306.2 |
| 27.5° | 1438.2 | 1288.8 | 950.6 | 600.3 | 377.6 | 298.7 | 277.1 | 275.2 | 282.8 | 291.2 | 291.2 |
| 30° | 1409.1 | 1239.0 | 839.8 | 468.7 | 300.6 | 262.1 | 254.6 | 257.4 | 264.9 | 272.4 | 275.2 |
| 32.5° | 1389.3 | 1193.9 | 740.2 | 364.5 | 256.4 | 236.7 | 234.8 | 238.6 | 246.1 | 249.9 | 252.7 |
| 35° | 1380.9 | 1161.1 | 633.1 | 294.0 | 228.3 | 217.9 | 217.0 | 219.8 | 223.6 | 224.5 | 223.6 |
| 37.5° | 1390.3 | 1138.5 | 523.2 | 248.9 | 210.4 | 204.8 | 203.8 | 203.8 | 203.8 | 204.8 | 203.8 |
| 40° | 1417.5 | 1130.1 | 424.6 | 219.8 | 199.1 | 194.5 | 191.6 | 188.8 | 186.9 | 186.9 | 186.0 |
| 42.5° | 1474.8 | 1143.2 | 341.0 | 202.9 | 190.7 | 185.1 | 179.4 | 175.7 | 172.8 | 171.9 | 171.9 |
| 45° | 1566.9 | 1179.9 | 283.7 | 191.6 | 183.2 | 174.7 | 168.1 | 164.4 | 161.6 | 162.5 | 161.6 |
| 47.5° | 1693.7 | 1240.9 | 250.8 | 184.1 | 175.7 | 164.4 | 157.8 | 154.1 | 153.1 | 155.9 | 156.9 |
| 50° | 1837.4 | 1327.3 | 231.1 | 178.5 | 170.0 | 155.9 | 148.4 | 145.6 | 146.5 | 152.2 | 153.1 |
| 52.5° | 2006.5 | 1439.1 | 222.6 | 174.7 | 165.3 | 148.4 | 141.8 | 139.0 | 140.9 | 147.5 | 148.4 |
| 55° | 2188.7 | 1566.9 | 234.8 | 176.6 | 160.6 | 143.7 | 136.2 | 132.5 | 135.3 | 140.9 | 141.8 |
| 57.5° | 2373.8 | 1724.7 | 276.2 | 177.5 | 155.0 | 140.0 | 130.6 | 124.9 | 126.8 | 131.5 | 132.5 |
| 60° | 2560.7 | 1881.6 | 347.6 | 178.5 | 153.1 | 136.2 | 125.9 | 117.4 | 118.4 | 121.2 | 122.1 |
| 62.5° | 2780.5 | 2080.7 | 441.5 | 182.2 | 155.0 | 133.4 | 117.4 | 108.0 | 108.0 | 109.9 | 109.9 |
| 65° | 3114.0 | 2377.6 | 503.5 | 180.4 | 159.7 | 130.6 | 109.0 | 99.6 | 98.6 | 99.6 | 99.6 |
| 67.5° | 3353.6 | 2417.0 | 351.3 | 170.0 | 162.5 | 131.5 | 104.3 | 92.1 | 90.2 | 89.2 | 89.2 |
| 70° | 3099.9 | 2033.7 | 232.0 | 160.6 | 157.8 | 133.4 | 100.5 | 87.4 | 83.6 | 80.8 | 79.8 |
| 71° | 2924.3 | 1832.7 | 215.1 | 156.9 | 154.1 | 131.5 | 98.6 | 84.5 | 80.8 | 78.9 | 78.0 |
| 72.5° | 2664.1 | 1635.4 | 198.2 | 151.2 | 145.6 | 127.8 | 95.8 | 81.7 | 77.0 | 74.2 | 73.3 |
| 75° | 2105.1 | 1254.1 | 173.8 | 139.0 | 125.9 | 105.2 | 88.3 | 76.1 | 71.4 | 67.6 | 66.7 |
| 77.5° | 951.6 | 498.8 | 133.4 | 120.2 | 102.4 | 83.6 | 77.0 | 70.5 | 64.8 | 62.0 | 61.1 |
| 80° | 265.8 | 189.8 | 97.7 | 94.9 | 77.0 | 64.8 | 62.0 | 60.1 | 58.2 | 54.5 | 54.5 |
| 82.5° | 123.1 | 110.8 | 69.5 | 66.7 | 52.6 | 46.0 | 48.8 | 49.8 | 49.8 | 46.0 | 45.1 |
| 85° | 33.8 | 36.6 | 31.9 | 35.7 | 33.8 | 31.0 | 35.7 | 38.5 | 40.4 | 36.6 | 33.8 |
| 87.5° | 2.8 | 6.6 | 8.5 | 14.1 | 16.9 | 17.8 | 22.5 | 27.2 | 28.2 | 22.5 | 23.5 |
| 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)