

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: P401492

Luminaire Tested: **ENV-SA1D-740-U-SL3**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401492
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: ENV-SA1D-740-U-SL3
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 4000K, 800mA 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: 5539 lumens
Efficiency: N/A
Efficacy: 128.5 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): 43.1
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

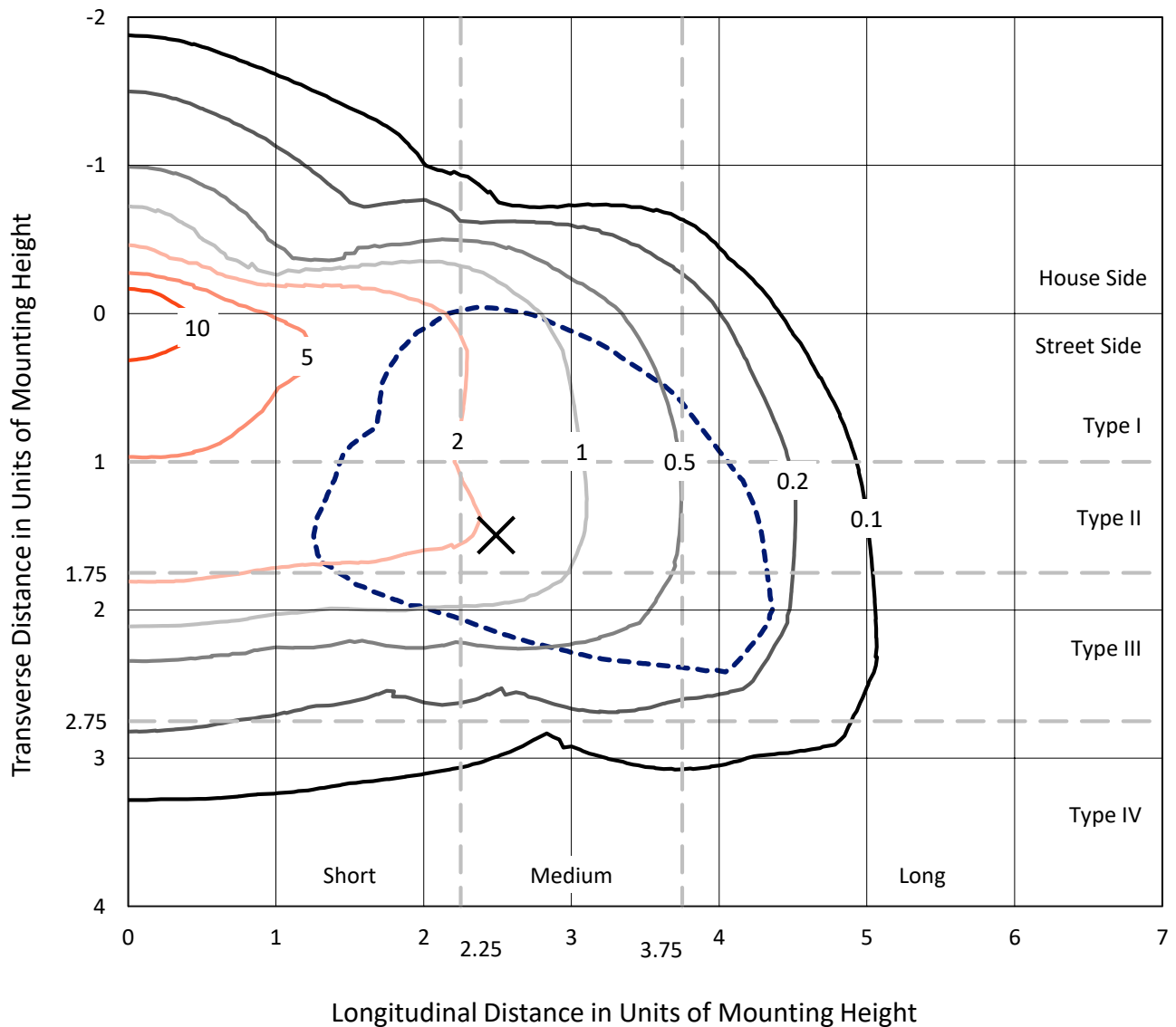


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

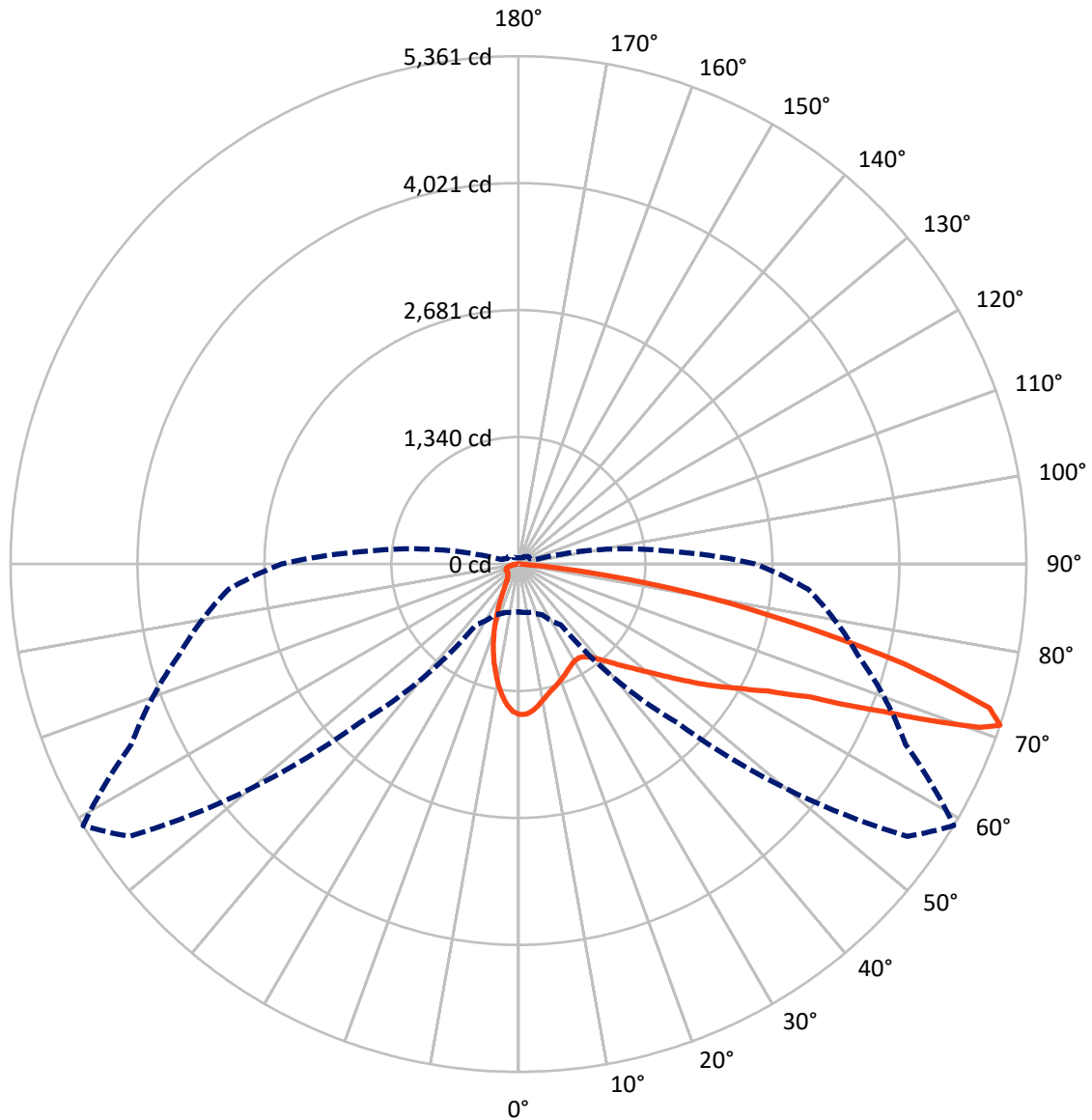


Based on 10 foot mounting height. Maximum calculated value = 15.9 fc
 Type III - Medium - Non-Cutoff

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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 | 940.1 | 0.0 | 940.1 |
| | % Fixture | 17.0 | 0.0 | 17.0 |
| Street Side | Lumens | 4598.9 | 0.0 | 4598.9 |
| | % Fixture | 83.0 | 0.0 | 83.0 |
| Total | Lumens | 5539.0 | 0.0 | 5539.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 137.3 | 2.5 |
| 10°-20° | 308.5 | 5.6 |
| 20°-30° | 392.0 | 7.1 |
| 30°-40° | 501.2 | 9.0 |
| 40°-50° | 695.5 | 12.6 |
| 50°-60° | 1029.8 | 18.6 |
| 60°-70° | 1391.9 | 25.1 |
| 70°-80° | 987.0 | 17.8 |
| 80°-90° | 95.9 | 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° | 5539.0 | 100.0 |
| 0°-180° | 5539.0 | 100.0 |



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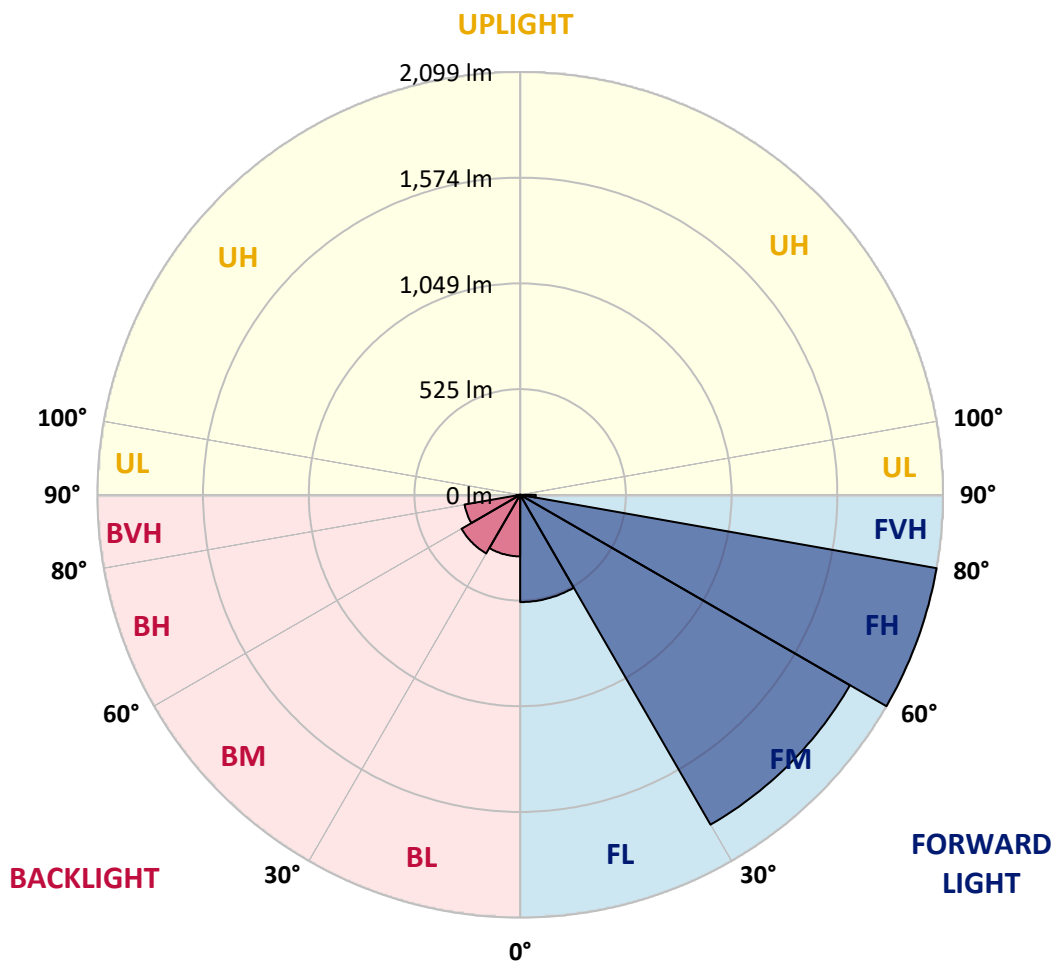
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 532.4 | 9.6 | | | |
| FM | (30°-60°) | 1890.2 | 34.1 | | | |
| FH | (60°-80°) | 2098.7 | 37.9 | | | G2/5000 |
| FVH | (80°-90°) | 77.6 | 1.4 | | | G1/100 |
| BL | (0°-30°) | 305.4 | 5.5 | B1/500 | | |
| BM | (30°-60°) | 336.2 | 6.1 | B1/1000 | | |
| BH | (60°-80°) | 280.2 | 5.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 18.3 | 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° | 1589.1 | 1589.1 | 1589.1 | 1589.1 | 1589.1 | 1589.1 | 1589.1 | 1589.1 | 1589.1 | 1589.1 | 1589.1 |
| 2.5° | 1575.5 | 1581.1 | 1583.5 | 1587.5 | 1587.5 | 1589.1 | 1587.5 | 1586.7 | 1589.9 | 1586.7 | 1577.9 |
| 5° | 1505.7 | 1508.1 | 1515.3 | 1523.3 | 1531.3 | 1548.2 | 1553.0 | 1556.2 | 1563.4 | 1565.0 | 1556.2 |
| 7.5° | 1411.0 | 1419.8 | 1429.4 | 1439.8 | 1456.7 | 1480.0 | 1500.0 | 1508.1 | 1521.7 | 1529.7 | 1516.9 |
| 10° | 1330.7 | 1335.5 | 1340.3 | 1358.8 | 1385.3 | 1417.4 | 1438.2 | 1453.5 | 1475.2 | 1485.6 | 1473.6 |
| 12.5° | 1250.4 | 1254.4 | 1264.1 | 1289.0 | 1316.2 | 1354.8 | 1392.5 | 1404.5 | 1430.2 | 1451.1 | 1441.4 |
| 15° | 1188.6 | 1188.6 | 1195.9 | 1223.1 | 1252.0 | 1303.4 | 1347.5 | 1366.0 | 1398.1 | 1427.8 | 1415.8 |
| 17.5° | 1134.1 | 1136.5 | 1141.3 | 1158.9 | 1199.1 | 1252.8 | 1309.0 | 1332.3 | 1372.4 | 1411.0 | 1394.9 |
| 20° | 1103.6 | 1102.0 | 1105.2 | 1114.0 | 1146.1 | 1203.1 | 1270.5 | 1297.8 | 1347.5 | 1400.5 | 1374.8 |
| 22.5° | 1093.1 | 1091.5 | 1089.1 | 1088.3 | 1109.2 | 1157.3 | 1229.6 | 1263.3 | 1325.1 | 1394.9 | 1356.4 |
| 25° | 1101.2 | 1101.2 | 1093.9 | 1080.3 | 1089.9 | 1122.8 | 1192.6 | 1228.8 | 1300.2 | 1390.9 | 1339.5 |
| 27.5° | 1122.8 | 1122.8 | 1112.4 | 1094.7 | 1090.7 | 1105.2 | 1160.5 | 1199.1 | 1279.3 | 1393.3 | 1325.9 |
| 30° | 1152.5 | 1151.7 | 1141.3 | 1126.0 | 1114.0 | 1109.2 | 1145.3 | 1180.6 | 1264.9 | 1403.7 | 1319.5 |
| 32.5° | 1186.2 | 1184.6 | 1179.8 | 1169.4 | 1154.9 | 1134.1 | 1146.9 | 1178.2 | 1261.7 | 1422.2 | 1320.3 |
| 35° | 1226.4 | 1223.9 | 1226.4 | 1220.7 | 1207.1 | 1184.6 | 1176.6 | 1201.5 | 1277.7 | 1456.7 | 1333.9 |
| 37.5° | 1261.7 | 1260.1 | 1272.1 | 1275.3 | 1272.1 | 1242.4 | 1232.0 | 1248.0 | 1315.4 | 1511.3 | 1362.0 |
| 40° | 1291.4 | 1293.0 | 1314.6 | 1337.9 | 1342.7 | 1317.0 | 1309.8 | 1323.5 | 1376.4 | 1577.9 | 1412.6 |
| 42.5° | 1324.3 | 1329.1 | 1361.2 | 1402.9 | 1419.0 | 1402.1 | 1406.1 | 1415.8 | 1453.5 | 1668.6 | 1485.6 |
| 45° | 1356.4 | 1366.8 | 1411.0 | 1464.7 | 1505.7 | 1505.7 | 1519.3 | 1528.9 | 1553.0 | 1782.6 | 1592.3 |
| 47.5° | 1412.6 | 1419.8 | 1467.9 | 1532.9 | 1595.5 | 1615.6 | 1653.3 | 1650.1 | 1668.6 | 1907.8 | 1717.5 |
| 50° | 1485.6 | 1497.6 | 1546.6 | 1614.0 | 1693.5 | 1750.4 | 1793.8 | 1800.2 | 1807.4 | 2036.2 | 1866.0 |
| 52.5° | 1586.7 | 1601.2 | 1641.3 | 1703.9 | 1797.8 | 1890.9 | 1982.4 | 1978.4 | 1968.8 | 2175.8 | 2036.2 |
| 55° | 1688.6 | 1703.9 | 1741.6 | 1792.2 | 1902.9 | 2045.8 | 2195.1 | 2189.5 | 2145.3 | 2318.7 | 2193.5 |
| 57.5° | 1792.2 | 1805.0 | 1844.3 | 1888.5 | 2019.3 | 2228.8 | 2419.8 | 2423.8 | 2333.1 | 2477.6 | 2349.2 |
| 60° | 1835.5 | 1854.8 | 1951.9 | 2037.0 | 2200.7 | 2431.8 | 2649.3 | 2659.8 | 2528.2 | 2638.1 | 2520.9 |
| 62.5° | 1639.7 | 1663.0 | 1823.5 | 2053.0 | 2449.5 | 2823.5 | 2947.9 | 2954.3 | 2763.3 | 2815.5 | 2708.7 |
| 65° | 1213.5 | 1212.7 | 1378.8 | 1722.4 | 2399.7 | 3349.2 | 3480.0 | 3378.9 | 3055.5 | 3050.6 | 2956.7 |
| 67.5° | 695.0 | 715.9 | 768.9 | 1027.3 | 1828.3 | 3446.3 | 4427.1 | 4163.0 | 3573.1 | 3416.6 | 3287.4 |
| 70° | 560.2 | 555.4 | 571.4 | 640.5 | 996.8 | 2833.9 | 5044.3 | 5164.7 | 4308.3 | 3715.2 | 3212.8 |
| 71° | 504.8 | 512.1 | 528.1 | 590.7 | 786.5 | 2364.4 | 5013.8 | 5361.3 | 4508.9 | 3707.2 | 3070.7 |
| 72.5° | 434.2 | 435.8 | 472.7 | 546.6 | 646.1 | 1667.8 | 4635.8 | 5199.2 | 4719.2 | 3602.0 | 2862.0 |
| 75° | 295.4 | 299.4 | 357.2 | 439.8 | 589.9 | 792.2 | 3317.1 | 4205.6 | 4295.5 | 3366.1 | 2363.6 |
| 77.5° | 169.3 | 172.6 | 214.3 | 321.8 | 502.4 | 558.6 | 2036.2 | 2906.2 | 3088.4 | 2461.5 | 1267.3 |
| 80° | 87.5 | 91.5 | 118.8 | 203.1 | 383.6 | 451.9 | 1167.8 | 1827.5 | 1756.9 | 850.7 | 293.7 |
| 82.5° | 23.3 | 26.5 | 34.5 | 73.0 | 185.4 | 294.6 | 517.7 | 756.0 | 540.1 | 176.6 | 106.7 |
| 85° | 0.0 | 0.0 | 0.0 | 0.8 | 1.6 | 40.9 | 109.2 | 135.6 | 75.4 | 34.5 | 28.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 1.6 | 1.6 | 1.6 | 1.6 | 2.4 | 3.2 |
| 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° | 1589.1 | 1589.1 | 1589.1 | 1589.1 | 1589.1 | 1589.1 | 1589.1 | 1589.1 | 1589.1 | 1589.1 | 1589.1 |
| 2.5° | 1576.3 | 1576.3 | 1571.5 | 1564.2 | 1556.2 | 1537.8 | 1541.0 | 1526.5 | 1528.1 | 1526.5 | 1526.5 |
| 5° | 1549.0 | 1544.2 | 1532.1 | 1509.7 | 1484.8 | 1451.9 | 1447.1 | 1420.6 | 1405.3 | 1400.5 | 1406.1 |
| 7.5° | 1511.3 | 1497.6 | 1467.1 | 1427.8 | 1380.5 | 1337.9 | 1298.6 | 1263.3 | 1236.8 | 1225.6 | 1220.7 |
| 10° | 1461.5 | 1444.7 | 1394.9 | 1325.9 | 1260.9 | 1194.3 | 1132.5 | 1092.3 | 1039.4 | 1023.3 | 1018.5 |
| 12.5° | 1420.6 | 1391.7 | 1317.0 | 1220.7 | 1119.6 | 1031.3 | 947.9 | 863.6 | 813.0 | 776.9 | 771.3 |
| 15° | 1385.3 | 1344.3 | 1237.6 | 1113.2 | 987.2 | 865.2 | 752.0 | 638.9 | 567.4 | 536.9 | 515.3 |
| 17.5° | 1354.0 | 1301.0 | 1158.1 | 996.8 | 841.1 | 679.8 | 541.7 | 433.4 | 388.5 | 365.2 | 366.0 |
| 20° | 1321.9 | 1254.4 | 1075.5 | 880.4 | 696.6 | 517.7 | 382.8 | 332.3 | 309.8 | 305.0 | 302.6 |
| 22.5° | 1291.4 | 1201.5 | 988.0 | 765.7 | 549.0 | 380.4 | 308.2 | 283.3 | 277.7 | 277.7 | 277.7 |
| 25° | 1256.9 | 1147.7 | 899.7 | 648.5 | 415.7 | 300.2 | 264.9 | 256.0 | 257.6 | 260.8 | 261.6 |
| 27.5° | 1228.8 | 1101.2 | 812.2 | 512.9 | 322.6 | 255.2 | 236.8 | 235.2 | 241.6 | 248.8 | 248.8 |
| 30° | 1203.9 | 1058.6 | 717.5 | 400.5 | 256.8 | 223.9 | 217.5 | 219.9 | 226.3 | 232.8 | 235.2 |
| 32.5° | 1187.0 | 1020.1 | 632.4 | 311.4 | 219.1 | 202.3 | 200.6 | 203.9 | 210.3 | 213.5 | 215.9 |
| 35° | 1179.8 | 992.0 | 540.9 | 251.2 | 195.0 | 186.2 | 185.4 | 187.8 | 191.0 | 191.8 | 191.0 |
| 37.5° | 1187.8 | 972.7 | 447.0 | 212.7 | 179.8 | 175.0 | 174.2 | 174.2 | 174.2 | 175.0 | 174.2 |
| 40° | 1211.1 | 965.5 | 362.8 | 187.8 | 170.1 | 166.1 | 163.7 | 161.3 | 159.7 | 159.7 | 158.9 |
| 42.5° | 1260.1 | 976.8 | 291.3 | 173.4 | 162.9 | 158.1 | 153.3 | 150.1 | 147.7 | 146.9 | 146.9 |
| 45° | 1338.7 | 1008.1 | 242.4 | 163.7 | 156.5 | 149.3 | 143.7 | 140.5 | 138.0 | 138.8 | 138.0 |
| 47.5° | 1447.1 | 1060.2 | 214.3 | 157.3 | 150.1 | 140.5 | 134.8 | 131.6 | 130.8 | 133.2 | 134.0 |
| 50° | 1569.9 | 1134.1 | 197.4 | 152.5 | 145.3 | 133.2 | 126.8 | 124.4 | 125.2 | 130.0 | 130.8 |
| 52.5° | 1714.3 | 1229.6 | 190.2 | 149.3 | 141.3 | 126.8 | 121.2 | 118.8 | 120.4 | 126.0 | 126.8 |
| 55° | 1870.0 | 1338.7 | 200.6 | 150.9 | 137.2 | 122.8 | 116.4 | 113.2 | 115.6 | 120.4 | 121.2 |
| 57.5° | 2028.1 | 1473.6 | 236.0 | 151.7 | 132.4 | 119.6 | 111.6 | 106.7 | 108.3 | 112.4 | 113.2 |
| 60° | 2187.9 | 1607.6 | 297.0 | 152.5 | 130.8 | 116.4 | 107.5 | 100.3 | 101.1 | 103.5 | 104.3 |
| 62.5° | 2375.7 | 1777.7 | 377.2 | 155.7 | 132.4 | 114.0 | 100.3 | 92.3 | 92.3 | 93.9 | 93.9 |
| 65° | 2660.6 | 2031.4 | 430.2 | 154.1 | 136.4 | 111.6 | 93.1 | 85.1 | 84.3 | 85.1 | 85.1 |
| 67.5° | 2865.2 | 2065.1 | 300.2 | 145.3 | 138.8 | 112.4 | 89.1 | 78.7 | 77.0 | 76.2 | 76.2 |
| 70° | 2648.5 | 1737.6 | 198.2 | 137.2 | 134.8 | 114.0 | 85.9 | 74.6 | 71.4 | 69.0 | 68.2 |
| 71° | 2498.5 | 1565.9 | 183.8 | 134.0 | 131.6 | 112.4 | 84.3 | 72.2 | 69.0 | 67.4 | 66.6 |
| 72.5° | 2276.1 | 1397.3 | 169.3 | 129.2 | 124.4 | 109.2 | 81.9 | 69.8 | 65.8 | 63.4 | 62.6 |
| 75° | 1798.6 | 1071.5 | 148.5 | 118.8 | 107.5 | 89.9 | 75.4 | 65.0 | 61.0 | 57.8 | 57.0 |
| 77.5° | 813.0 | 426.2 | 114.0 | 102.7 | 87.5 | 71.4 | 65.8 | 60.2 | 55.4 | 53.0 | 52.2 |
| 80° | 227.1 | 162.1 | 83.5 | 81.1 | 65.8 | 55.4 | 53.0 | 51.4 | 49.8 | 46.6 | 46.6 |
| 82.5° | 105.1 | 94.7 | 59.4 | 57.0 | 44.9 | 39.3 | 41.7 | 42.5 | 42.5 | 39.3 | 38.5 |
| 85° | 28.9 | 31.3 | 27.3 | 30.5 | 28.9 | 26.5 | 30.5 | 32.9 | 34.5 | 31.3 | 28.9 |
| 87.5° | 2.4 | 5.6 | 7.2 | 12.0 | 14.4 | 15.2 | 19.3 | 23.3 | 24.1 | 19.3 | 20.1 |
| 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)