

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: P401452

Luminaire Tested: **ENC-SA1D-730-U-SL3**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401452
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-SA1D-730-U-SL3
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 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: 5044 lumens
Efficiency: N/A
Efficacy: 117.0 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

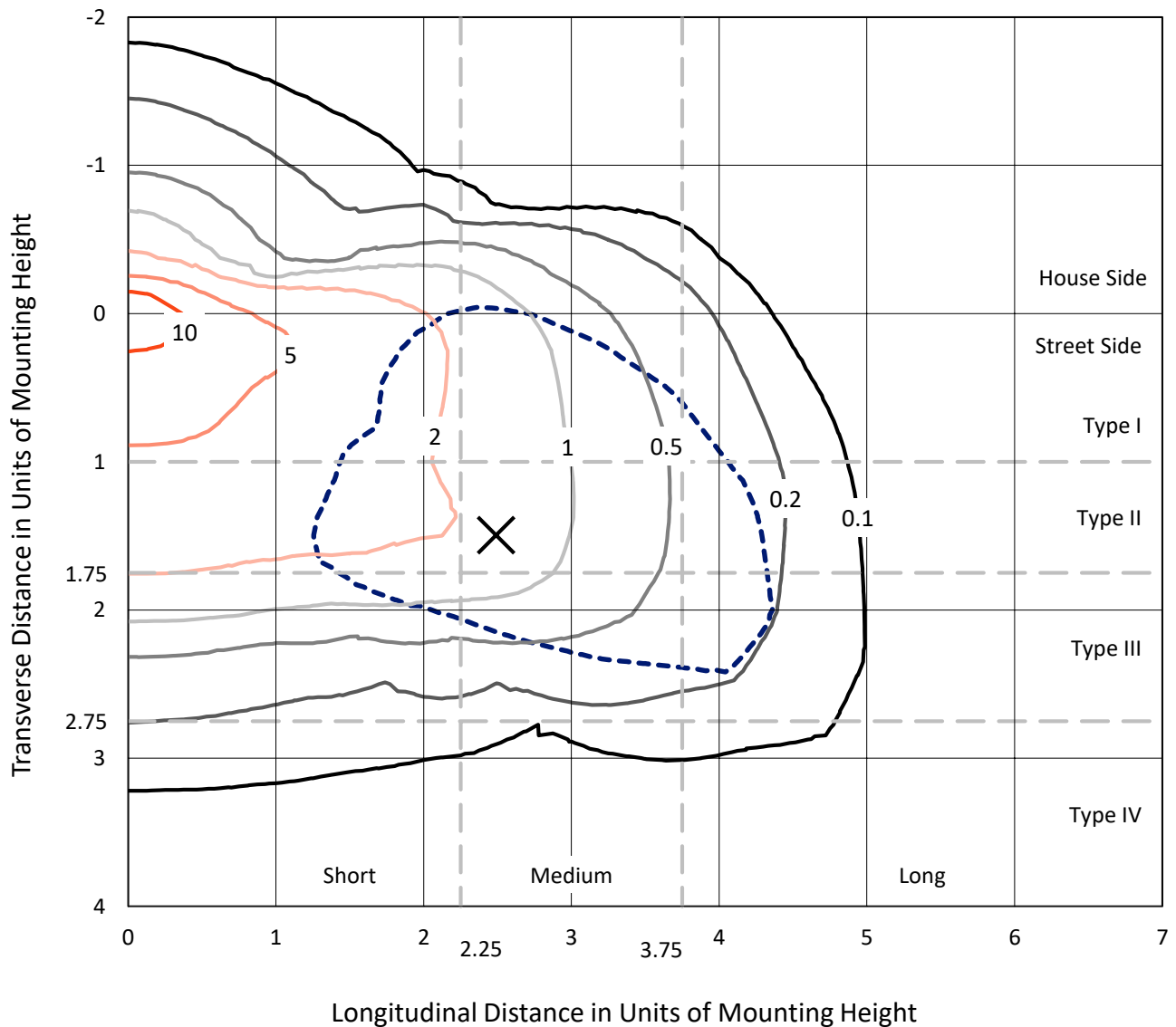
Input Watts (W): 43.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P401452
 CATALOG NUMBER: ENC-SA1D-730-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

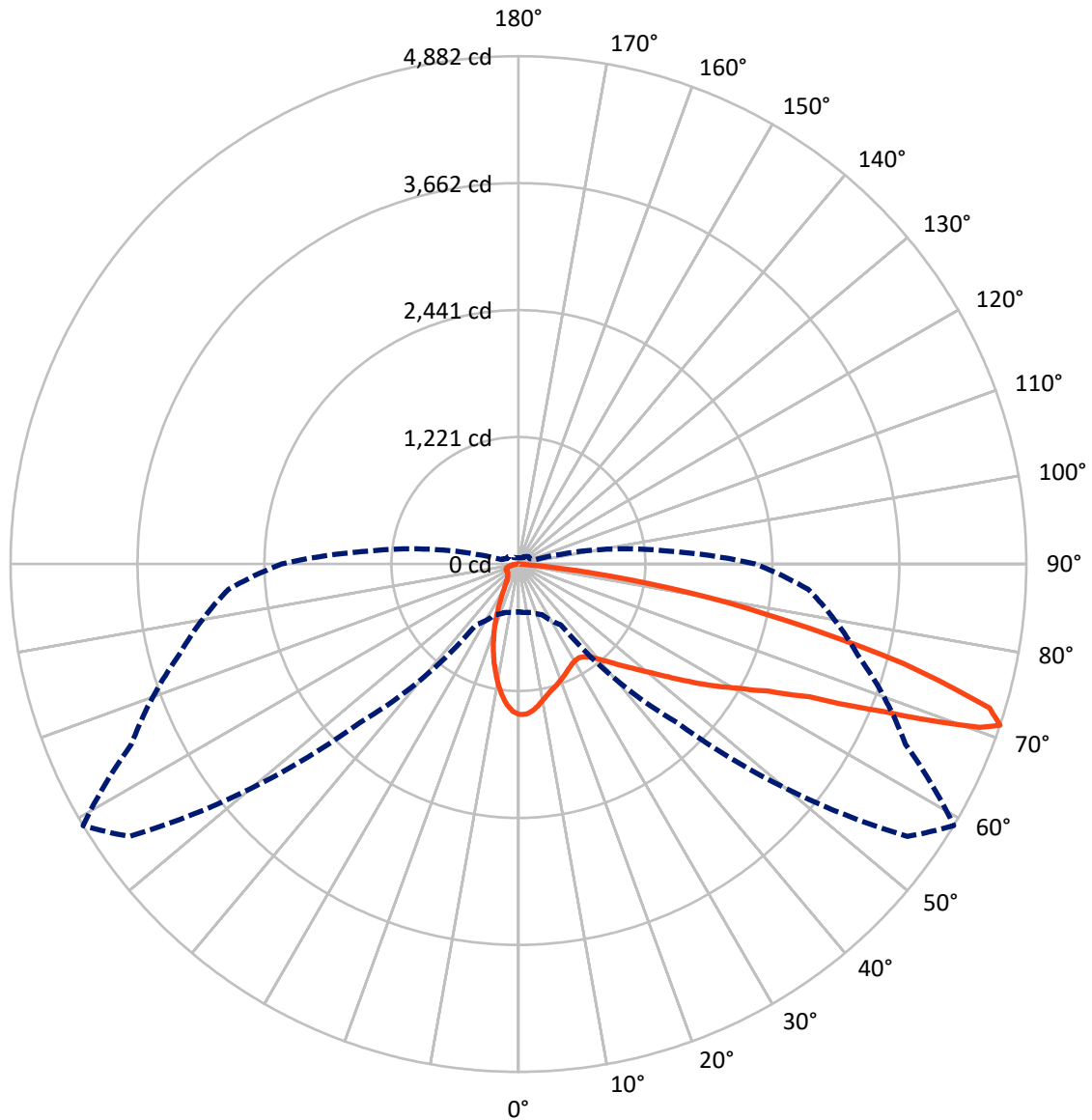


Based on 10 foot mounting height. Maximum calculated value = 14.5 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P401452

CATALOG NUMBER: ENC-SA1D-730-U-SL3

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 | 856.1 | 0.0 | 856.1 |
| | % Fixture | 17.0 | 0.0 | 17.0 |
| Street Side | Lumens | 4187.9 | 0.0 | 4187.9 |
| | % Fixture | 83.0 | 0.0 | 83.0 |
| Total | Lumens | 5044.0 | 0.0 | 5044.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 125.0 | 2.5 |
| 10°-20° | 280.9 | 5.6 |
| 20°-30° | 357.0 | 7.1 |
| 30°-40° | 456.4 | 9.0 |
| 40°-50° | 633.4 | 12.6 |
| 50°-60° | 937.7 | 18.6 |
| 60°-70° | 1267.5 | 25.1 |
| 70°-80° | 898.8 | 17.8 |
| 80°-90° | 87.3 | 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° | 5044.0 | 100.0 |
| 0°-180° | 5044.0 | 100.0 |



REPORT NUMBER: P401452

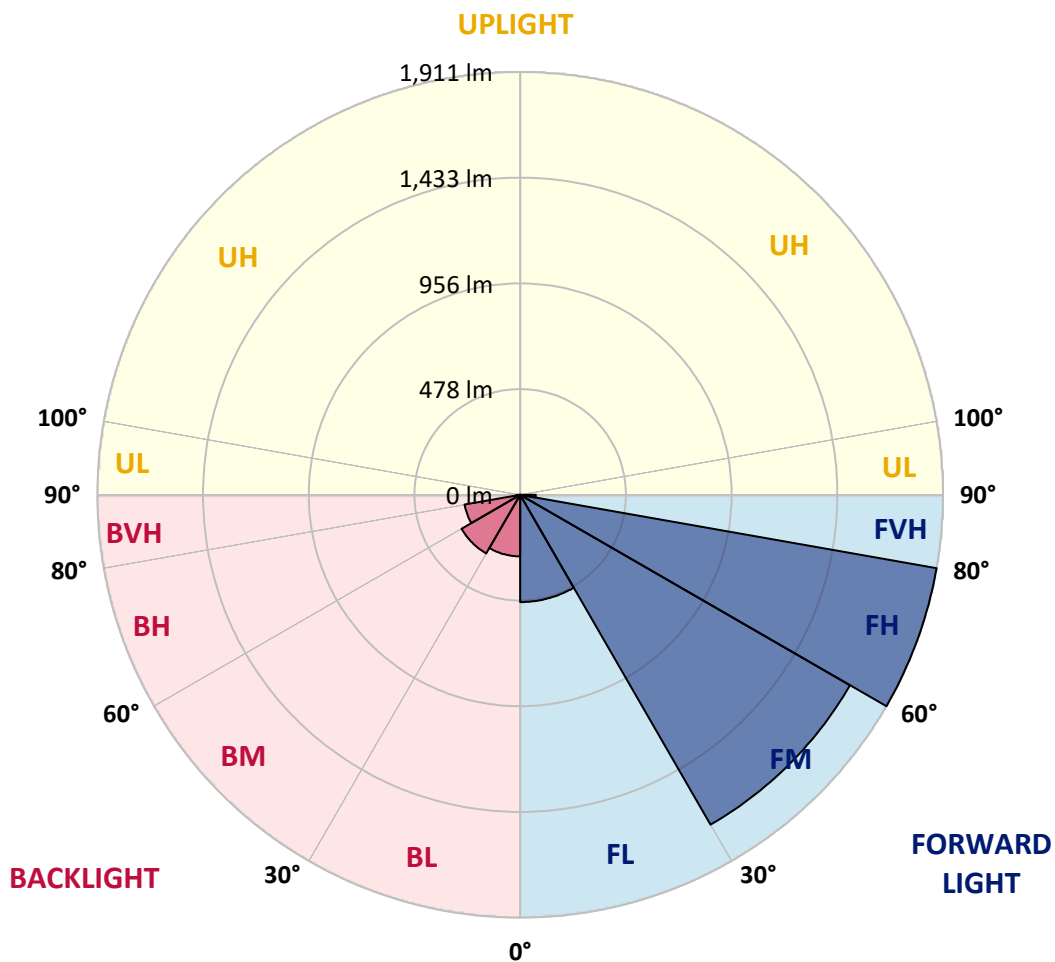
CATALOG NUMBER: ENC-SA1D-730-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 484.8 | 9.6 | | | |
| FM (30°-60°) | 1721.3 | 34.1 | | | |
| FH (60°-80°) | 1911.1 | 37.9 | | | G2/5000 |
| FVH (80°-90°) | 70.7 | 1.4 | | | G1/100 |
| BL (0°-30°) | 278.1 | 5.5 | B1/500 | | |
| BM (30°-60°) | 306.2 | 6.1 | B1/1000 | | |
| BH (60°-80°) | 255.1 | 5.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 16.6 | 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





REPORT NUMBER: P401452

CATALOG NUMBER: ENC-SA1D-730-U-SL3

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1447.1 | 1447.1 | 1447.1 | 1447.1 | 1447.1 | 1447.1 | 1447.1 | 1447.1 | 1447.1 | 1447.1 | 1447.1 |
| 2.5° | 1434.7 | 1439.8 | 1442.0 | 1445.7 | 1445.7 | 1447.1 | 1445.7 | 1444.9 | 1447.8 | 1444.9 | 1436.9 |
| 5° | 1371.1 | 1373.3 | 1379.9 | 1387.2 | 1394.5 | 1409.8 | 1414.2 | 1417.1 | 1423.7 | 1425.2 | 1417.1 |
| 7.5° | 1284.9 | 1292.9 | 1301.7 | 1311.2 | 1326.5 | 1347.7 | 1366.0 | 1373.3 | 1385.7 | 1393.0 | 1381.3 |
| 10° | 1211.8 | 1216.2 | 1220.5 | 1237.4 | 1261.5 | 1290.7 | 1309.7 | 1323.6 | 1343.3 | 1352.8 | 1341.9 |
| 12.5° | 1138.7 | 1142.3 | 1151.1 | 1173.8 | 1198.6 | 1233.7 | 1268.1 | 1279.0 | 1302.4 | 1321.4 | 1312.6 |
| 15° | 1082.4 | 1082.4 | 1089.0 | 1113.8 | 1140.1 | 1186.9 | 1227.1 | 1243.9 | 1273.2 | 1300.2 | 1289.2 |
| 17.5° | 1032.7 | 1034.9 | 1039.3 | 1055.4 | 1091.9 | 1140.9 | 1192.0 | 1213.2 | 1249.8 | 1284.9 | 1270.2 |
| 20° | 1004.9 | 1003.5 | 1006.4 | 1014.4 | 1043.7 | 1095.6 | 1157.0 | 1181.8 | 1227.1 | 1275.4 | 1252.0 |
| 22.5° | 995.4 | 994.0 | 991.8 | 991.1 | 1010.1 | 1053.9 | 1119.7 | 1150.4 | 1206.7 | 1270.2 | 1235.2 |
| 25° | 1002.7 | 1002.7 | 996.2 | 983.7 | 992.5 | 1022.5 | 1086.1 | 1119.0 | 1184.0 | 1266.6 | 1219.8 |
| 27.5° | 1022.5 | 1022.5 | 1013.0 | 996.9 | 993.2 | 1006.4 | 1056.8 | 1091.9 | 1165.0 | 1268.8 | 1207.4 |
| 30° | 1049.5 | 1048.8 | 1039.3 | 1025.4 | 1014.4 | 1010.1 | 1042.9 | 1075.1 | 1151.8 | 1278.3 | 1201.5 |
| 32.5° | 1080.2 | 1078.8 | 1074.4 | 1064.9 | 1051.7 | 1032.7 | 1044.4 | 1072.9 | 1148.9 | 1295.1 | 1202.3 |
| 35° | 1116.8 | 1114.6 | 1116.8 | 1111.6 | 1099.2 | 1078.8 | 1071.4 | 1094.1 | 1163.5 | 1326.5 | 1214.7 |
| 37.5° | 1148.9 | 1147.5 | 1158.4 | 1161.3 | 1158.4 | 1131.4 | 1121.9 | 1136.5 | 1197.9 | 1376.2 | 1240.3 |
| 40° | 1176.0 | 1177.4 | 1197.2 | 1218.4 | 1222.7 | 1199.3 | 1192.8 | 1205.2 | 1253.4 | 1436.9 | 1286.3 |
| 42.5° | 1205.9 | 1210.3 | 1239.5 | 1277.6 | 1292.2 | 1276.8 | 1280.5 | 1289.2 | 1323.6 | 1519.5 | 1352.8 |
| 45° | 1235.2 | 1244.7 | 1284.9 | 1333.8 | 1371.1 | 1371.1 | 1383.5 | 1392.3 | 1414.2 | 1623.3 | 1450.0 |
| 47.5° | 1286.3 | 1292.9 | 1336.8 | 1396.0 | 1453.0 | 1471.2 | 1505.6 | 1502.7 | 1519.5 | 1737.3 | 1564.1 |
| 50° | 1352.8 | 1363.8 | 1408.4 | 1469.8 | 1542.1 | 1594.0 | 1633.5 | 1639.3 | 1645.9 | 1854.2 | 1699.3 |
| 52.5° | 1444.9 | 1458.1 | 1494.6 | 1551.6 | 1637.1 | 1721.9 | 1805.2 | 1801.6 | 1792.8 | 1981.4 | 1854.2 |
| 55° | 1537.7 | 1551.6 | 1586.0 | 1632.0 | 1732.9 | 1863.0 | 1998.9 | 1993.8 | 1953.6 | 2111.5 | 1997.5 |
| 57.5° | 1632.0 | 1643.7 | 1679.5 | 1719.7 | 1838.9 | 2029.6 | 2203.6 | 2207.2 | 2124.6 | 2256.2 | 2139.2 |
| 60° | 1671.5 | 1689.0 | 1777.5 | 1854.9 | 2004.0 | 2214.5 | 2412.6 | 2422.1 | 2302.2 | 2402.4 | 2295.6 |
| 62.5° | 1493.2 | 1514.4 | 1660.5 | 1869.6 | 2230.6 | 2571.2 | 2684.5 | 2690.3 | 2516.4 | 2563.9 | 2466.7 |
| 65° | 1105.1 | 1104.3 | 1255.6 | 1568.4 | 2185.3 | 3049.9 | 3169.0 | 3076.9 | 2782.4 | 2778.0 | 2692.5 |
| 67.5° | 632.9 | 651.9 | 700.2 | 935.5 | 1664.9 | 3138.3 | 4031.4 | 3791.0 | 3253.8 | 3111.3 | 2993.6 |
| 70° | 510.1 | 505.8 | 520.4 | 583.2 | 907.7 | 2580.7 | 4593.5 | 4703.1 | 3923.3 | 3383.2 | 2925.7 |
| 71° | 459.7 | 466.3 | 480.9 | 537.9 | 716.2 | 2153.1 | 4565.7 | 4882.2 | 4106.0 | 3375.9 | 2796.3 |
| 72.5° | 395.4 | 396.9 | 430.5 | 497.7 | 588.3 | 1518.7 | 4221.5 | 4734.5 | 4297.5 | 3280.1 | 2606.3 |
| 75° | 269.0 | 272.6 | 325.2 | 400.5 | 537.2 | 721.4 | 3020.7 | 3829.7 | 3911.6 | 3065.2 | 2152.4 |
| 77.5° | 154.2 | 157.1 | 195.1 | 293.1 | 457.5 | 508.7 | 1854.2 | 2646.5 | 2812.4 | 2241.6 | 1154.0 |
| 80° | 79.7 | 83.3 | 108.2 | 184.9 | 349.4 | 411.5 | 1063.4 | 1664.2 | 1599.9 | 774.7 | 267.5 |
| 82.5° | 21.2 | 24.1 | 31.4 | 66.5 | 168.8 | 268.2 | 471.4 | 688.5 | 491.9 | 160.8 | 97.2 |
| 85° | 0.0 | 0.0 | 0.0 | 0.7 | 1.5 | 37.3 | 99.4 | 123.5 | 68.7 | 31.4 | 26.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 1.5 | 1.5 | 1.5 | 1.5 | 2.2 | 2.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P401452

CATALOG NUMBER: ENC-SA1D-730-U-SL3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1447.1 | 1447.1 | 1447.1 | 1447.1 | 1447.1 | 1447.1 | 1447.1 | 1447.1 | 1447.1 | 1447.1 | 1447.1 |
| 2.5° | 1435.4 | 1435.4 | 1431.0 | 1424.5 | 1417.1 | 1400.3 | 1403.3 | 1390.1 | 1391.6 | 1390.1 | 1390.1 |
| 5° | 1410.6 | 1406.2 | 1395.2 | 1374.8 | 1352.1 | 1322.1 | 1317.7 | 1293.6 | 1279.7 | 1275.4 | 1280.5 |
| 7.5° | 1376.2 | 1363.8 | 1336.0 | 1300.2 | 1257.1 | 1218.4 | 1182.5 | 1150.4 | 1126.3 | 1116.0 | 1111.6 |
| 10° | 1330.9 | 1315.6 | 1270.2 | 1207.4 | 1148.2 | 1087.5 | 1031.2 | 994.7 | 946.5 | 931.9 | 927.5 |
| 12.5° | 1293.6 | 1267.3 | 1199.3 | 1111.6 | 1019.6 | 939.2 | 863.2 | 786.4 | 740.4 | 707.5 | 702.4 |
| 15° | 1261.5 | 1224.2 | 1127.0 | 1013.7 | 899.0 | 787.9 | 684.8 | 581.8 | 516.7 | 488.9 | 469.2 |
| 17.5° | 1233.0 | 1184.7 | 1054.6 | 907.7 | 765.9 | 619.0 | 493.3 | 394.7 | 353.7 | 332.5 | 333.3 |
| 20° | 1203.7 | 1142.3 | 979.4 | 801.8 | 634.4 | 471.4 | 348.6 | 302.6 | 282.1 | 277.7 | 275.5 |
| 22.5° | 1176.0 | 1094.1 | 899.7 | 697.2 | 499.9 | 346.4 | 280.7 | 258.0 | 252.9 | 252.9 | 252.9 |
| 25° | 1144.5 | 1045.1 | 819.3 | 590.5 | 378.6 | 273.3 | 241.2 | 233.1 | 234.6 | 237.5 | 238.3 |
| 27.5° | 1119.0 | 1002.7 | 739.6 | 467.0 | 293.8 | 232.4 | 215.6 | 214.1 | 220.0 | 226.6 | 226.6 |
| 30° | 1096.3 | 964.0 | 653.4 | 364.7 | 233.9 | 203.9 | 198.1 | 200.3 | 206.1 | 212.0 | 214.1 |
| 32.5° | 1080.9 | 928.9 | 575.9 | 283.6 | 199.5 | 184.2 | 182.7 | 185.6 | 191.5 | 194.4 | 196.6 |
| 35° | 1074.4 | 903.3 | 492.6 | 228.8 | 177.6 | 169.6 | 168.8 | 171.0 | 173.9 | 174.7 | 173.9 |
| 37.5° | 1081.7 | 885.8 | 407.1 | 193.7 | 163.7 | 159.3 | 158.6 | 158.6 | 158.6 | 159.3 | 158.6 |
| 40° | 1102.9 | 879.2 | 330.4 | 171.0 | 154.9 | 151.3 | 149.1 | 146.9 | 145.4 | 145.4 | 144.7 |
| 42.5° | 1147.5 | 889.5 | 265.3 | 157.9 | 148.4 | 144.0 | 139.6 | 136.7 | 134.5 | 133.7 | 133.7 |
| 45° | 1219.1 | 918.0 | 220.7 | 149.1 | 142.5 | 135.9 | 130.8 | 127.9 | 125.7 | 126.4 | 125.7 |
| 47.5° | 1317.7 | 965.5 | 195.1 | 143.2 | 136.7 | 127.9 | 122.8 | 119.9 | 119.1 | 121.3 | 122.1 |
| 50° | 1429.6 | 1032.7 | 179.8 | 138.9 | 132.3 | 121.3 | 115.5 | 113.3 | 114.0 | 118.4 | 119.1 |
| 52.5° | 1561.1 | 1119.7 | 173.2 | 135.9 | 128.6 | 115.5 | 110.4 | 108.2 | 109.6 | 114.7 | 115.5 |
| 55° | 1702.9 | 1219.1 | 182.7 | 137.4 | 125.0 | 111.8 | 106.0 | 103.1 | 105.2 | 109.6 | 110.4 |
| 57.5° | 1846.9 | 1341.9 | 214.9 | 138.1 | 120.6 | 108.9 | 101.6 | 97.2 | 98.7 | 102.3 | 103.1 |
| 60° | 1992.3 | 1463.9 | 270.4 | 138.9 | 119.1 | 106.0 | 97.9 | 91.4 | 92.1 | 94.3 | 95.0 |
| 62.5° | 2163.4 | 1618.9 | 343.5 | 141.8 | 120.6 | 103.8 | 91.4 | 84.0 | 84.0 | 85.5 | 85.5 |
| 65° | 2422.8 | 1849.8 | 391.7 | 140.3 | 124.2 | 101.6 | 84.8 | 77.5 | 76.7 | 77.5 | 77.5 |
| 67.5° | 2609.2 | 1880.5 | 273.3 | 132.3 | 126.4 | 102.3 | 81.1 | 71.6 | 70.2 | 69.4 | 69.4 |
| 70° | 2411.9 | 1582.3 | 180.5 | 125.0 | 122.8 | 103.8 | 78.2 | 68.0 | 65.0 | 62.9 | 62.1 |
| 71° | 2275.2 | 1425.9 | 167.4 | 122.1 | 119.9 | 102.3 | 76.7 | 65.8 | 62.9 | 61.4 | 60.7 |
| 72.5° | 2072.7 | 1272.4 | 154.2 | 117.7 | 113.3 | 99.4 | 74.5 | 63.6 | 59.9 | 57.7 | 57.0 |
| 75° | 1637.9 | 975.7 | 135.2 | 108.2 | 97.9 | 81.9 | 68.7 | 59.2 | 55.5 | 52.6 | 51.9 |
| 77.5° | 740.4 | 388.1 | 103.8 | 93.6 | 79.7 | 65.0 | 59.9 | 54.8 | 50.4 | 48.2 | 47.5 |
| 80° | 206.8 | 147.6 | 76.0 | 73.8 | 59.9 | 50.4 | 48.2 | 46.8 | 45.3 | 42.4 | 42.4 |
| 82.5° | 95.7 | 86.2 | 54.1 | 51.9 | 40.9 | 35.8 | 38.0 | 38.7 | 38.7 | 35.8 | 35.1 |
| 85° | 26.3 | 28.5 | 24.8 | 27.8 | 26.3 | 24.1 | 27.8 | 30.0 | 31.4 | 28.5 | 26.3 |
| 87.5° | 2.2 | 5.1 | 6.6 | 11.0 | 13.2 | 13.9 | 17.5 | 21.2 | 21.9 | 17.5 | 18.3 |
| 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)