

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: P401295

Luminaire Tested: **ENV-SA1C-735-U-SLR-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1C-735-U-SLR-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3186 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 33.3
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

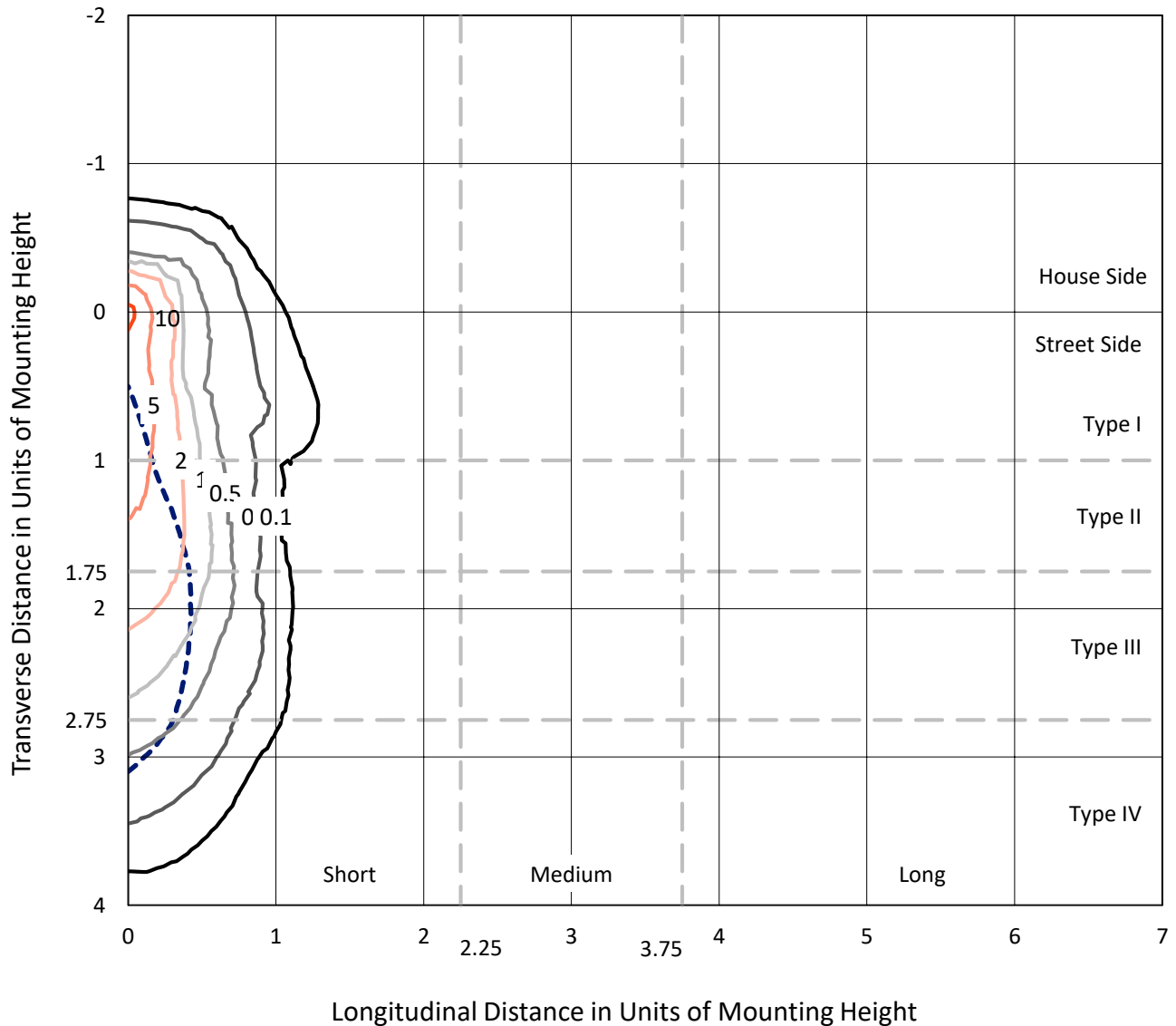


REPORT NUMBER: P401295

CATALOG NUMBER: ENV-SA1C-735-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

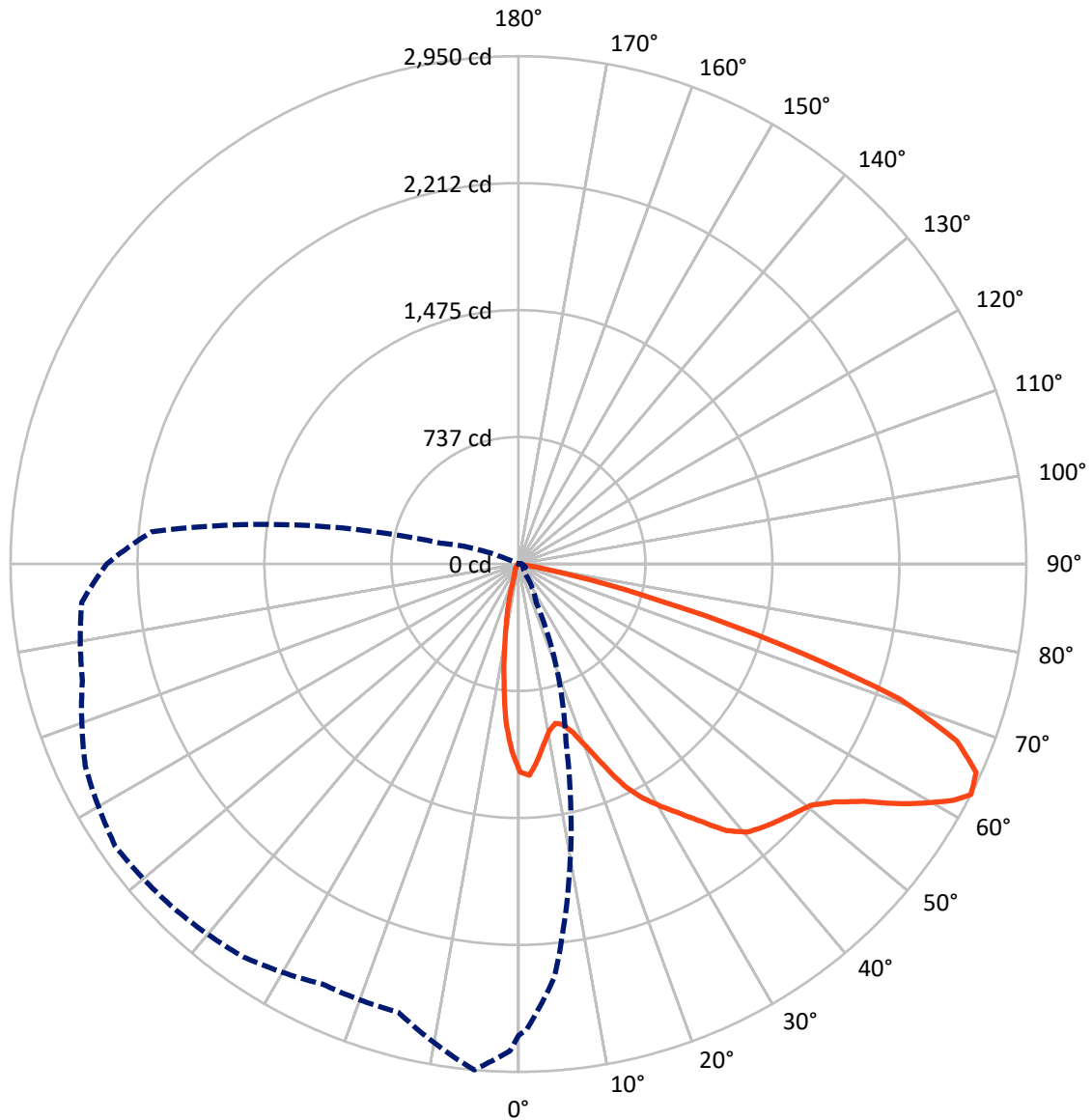
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.1 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P401295
CATALOG NUMBER: ENV-SA1C-735-U-SLR-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P401295

CATALOG NUMBER: ENV-SA1C-735-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	448.2	0.0	448.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	2737.9	0.0	2737.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	3186.0	0.0	3186.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	2.8
10°-20°	172.3	5.4
20°-30°	239.7	7.5
30°-40°	346.7	10.9
40°-50°	497.0	15.6
50°-60°	721.1	22.6
60°-70°	780.2	24.5
70°-80°	315.1	9.9
80°-90°	23.3	0.7
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°	3186.0	100.0
0°-180°	3186.0	100.0



REPORT NUMBER: P401295

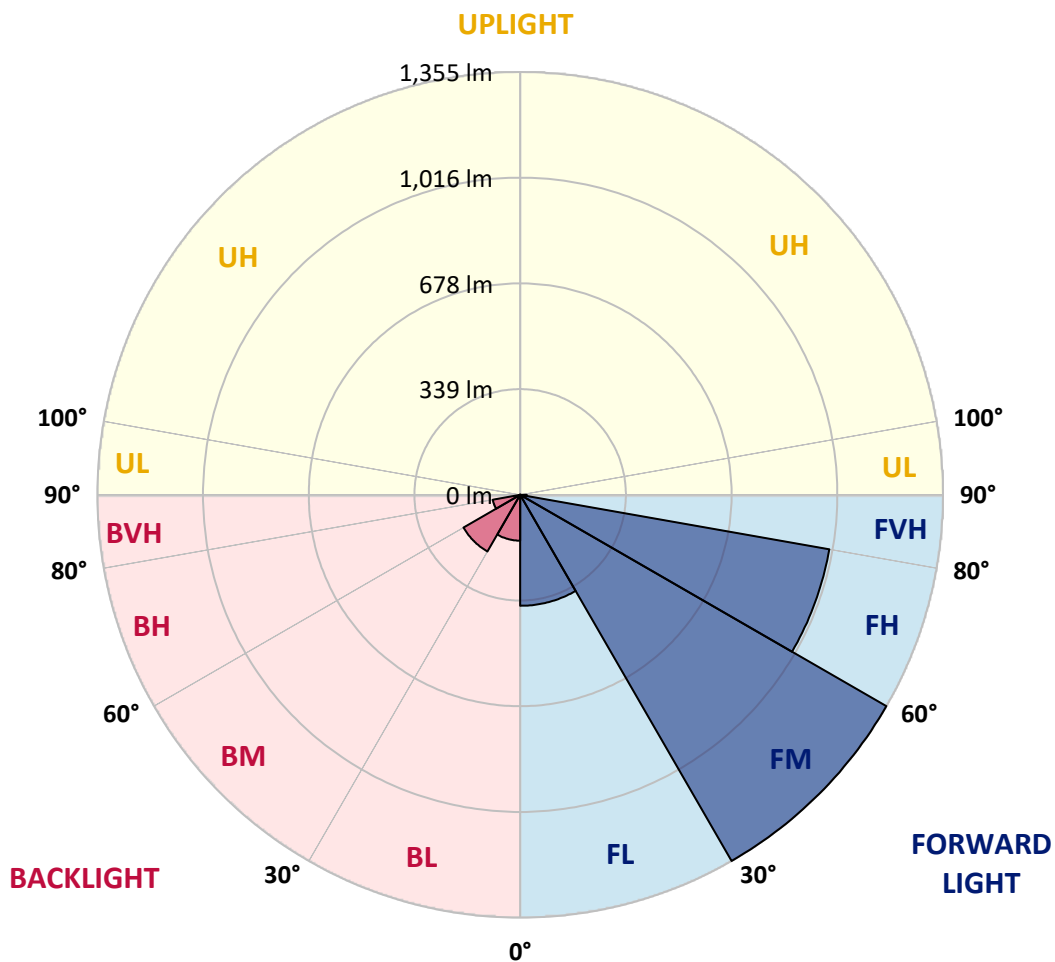
CATALOG NUMBER: ENV-SA1C-735-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	355.7	11.2			
FM	(30°-60°)	1355.1	42.5			
FH	(60°-80°)	1006.1	31.6			G1/1800
FVH	(80°-90°)	21.0	0.7			G1/100
BL	(0°-30°)	146.9	4.6	B1/500		
BM	(30°-60°)	209.7	6.6	B0/220		
BH	(60°-80°)	89.1	2.8	B0/110		G0/110
BVH	(80°-90°)	2.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





REPORT NUMBER: P401295

CATALOG NUMBER: ENV-SA1C-735-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1213.6	1208.5	1197.2	1172.6	1137.3	1114.6	1100.1	1081.2	1061.6	1055.3	1042.7
5°	1107.6	1099.5	1083.7	1021.9	966.4	911.0	871.2	833.4	820.8	795.6	810.7
7.5°	1005.5	1001.7	965.2	885.1	796.9	725.6	680.2	624.7	608.4	582.5	561.7
10°	925.5	922.3	878.2	773.5	678.3	619.1	583.1	547.2	511.3	474.7	445.7
12.5°	885.1	878.2	827.1	714.3	626.0	576.8	539.0	491.1	452.6	403.5	368.2
15°	891.4	885.1	826.5	704.8	600.8	532.7	476.6	419.9	365.6	317.1	282.4
17.5°	941.8	939.3	868.1	713.0	570.5	480.4	405.4	329.1	264.8	212.5	182.8
20°	1040.2	1032.6	929.2	730.7	539.0	419.9	317.1	223.2	169.6	133.6	121.0
22.5°	1161.9	1144.8	1025.7	756.5	508.7	354.9	229.5	150.0	121.0	107.2	98.3
25°	1305.0	1305.6	1145.5	791.2	478.5	294.4	160.8	119.1	102.1	92.0	84.5
27.5°	1421.0	1412.1	1253.3	825.9	445.7	241.5	134.9	104.0	89.5	78.8	74.4
30°	1506.7	1493.5	1324.5	849.8	403.5	204.3	121.0	99.0	84.5	72.5	66.8
32.5°	1595.0	1578.6	1388.8	863.0	378.3	186.6	107.2	86.4	75.7	70.6	63.0
35°	1698.4	1683.9	1460.1	861.8	365.0	176.5	97.1	78.2	64.3	56.1	51.1
37.5°	1813.7	1784.1	1533.8	856.1	355.6	171.5	88.3	72.5	59.9	51.1	44.8
40°	1912.7	1883.1	1601.9	848.5	349.3	166.4	83.2	68.7	56.7	47.3	41.0
42.5°	1990.2	1961.9	1665.6	839.1	346.1	155.7	85.7	66.2	54.2	44.8	37.8
45°	2057.1	2028.1	1741.2	837.8	344.8	148.1	84.5	65.6	53.0	41.6	35.3
47.5°	2134.6	2119.5	1840.8	858.6	339.8	142.5	77.5	70.6	52.3	40.3	33.4
50°	2249.3	2236.1	1971.3	920.4	332.2	136.8	70.6	77.5	52.3	39.1	31.5
52.5°	2410.1	2395.0	2176.8	1001.1	325.3	130.5	63.7	75.0	53.0	37.2	30.3
55°	2576.5	2574.0	2371.0	1086.8	319.0	116.6	56.1	67.5	51.7	34.7	28.4
57.5°	2707.0	2705.1	2516.6	1144.8	307.0	93.9	51.1	56.1	47.9	31.5	25.8
60°	2760.6	2744.9	2532.4	1144.8	279.3	77.5	46.7	44.1	48.5	28.4	22.7
61°	2760.6	2740.4	2504.0	1127.8	265.4	73.8	44.1	41.0	49.8	27.1	21.4
62.5°	2739.2	2705.8	2406.9	1066.7	243.3	73.8	40.3	36.6	45.4	25.8	19.5
65°	2644.0	2589.1	2179.4	927.3	220.6	75.7	34.7	30.9	32.8	22.1	17.0
67.5°	2408.8	2347.1	1884.3	733.8	202.4	80.1	29.0	27.1	25.2	19.5	15.1
70°	1984.6	1932.2	1537.6	549.7	187.9	81.3	25.2	22.7	21.4	17.0	13.2
72.5°	1268.4	1182.0	960.1	372.6	150.7	70.6	20.8	21.4	19.5	13.9	10.7
75°	612.8	636.7	558.6	187.9	101.5	46.0	16.4	17.7	15.8	12.6	9.5
77.5°	274.2	269.2	266.7	47.9	25.8	15.8	10.1	12.0	12.6	11.3	8.2
80°	28.4	38.5	22.7	14.5	9.5	6.9	5.7	6.3	7.6	8.2	4.4
82.5°	1.3	0.6	0.6	1.9	1.9	1.3	0.0	0.0	1.3	1.3	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	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



REPORT NUMBER: P401295

CATALOG NUMBER: ENV-SA1C-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1031.4	1048.4	1040.8	1038.9	1049.0	1044.0	1059.1	1059.7	1071.1	1086.2	1095.7
5°	810.7	797.5	824.0	841.6	863.7	856.7	883.2	880.1	894.6	918.5	909.1
7.5°	563.0	564.9	578.7	594.5	653.7	665.7	674.6	681.5	680.9	686.5	696.6
10°	430.6	419.9	410.4	432.5	455.8	481.6	485.4	494.9	469.0	479.8	484.8
12.5°	352.4	339.8	319.0	307.6	313.3	328.4	334.8	340.4	325.3	325.9	337.3
15°	267.3	250.3	242.1	227.0	221.3	220.0	223.2	215.0	213.1	206.1	210.6
17.5°	174.0	169.0	164.5	161.4	157.0	155.7	144.4	124.8	113.5	111.0	111.0
20°	116.0	112.2	112.2	118.5	116.6	111.6	96.5	80.1	71.9	69.3	70.6
22.5°	95.2	92.7	88.9	88.9	91.4	87.6	73.8	61.8	56.1	56.1	56.1
25°	82.6	81.3	77.5	73.8	75.0	71.9	59.9	52.3	48.5	47.9	48.5
27.5°	72.5	71.9	67.5	63.7	63.7	61.2	51.7	44.8	42.2	41.0	41.6
30°	65.6	64.3	59.3	56.1	55.5	53.0	44.1	39.1	36.6	35.9	35.9
32.5°	60.5	58.0	53.6	50.4	48.5	44.8	38.5	33.4	30.9	30.3	30.3
35°	48.5	48.5	46.7	44.8	42.2	36.6	32.2	27.7	25.2	24.6	24.6
37.5°	42.2	39.7	36.6	37.2	35.9	30.9	26.5	22.1	20.2	19.5	19.5
40°	38.5	35.3	30.9	29.0	29.6	27.1	22.1	17.0	14.5	15.1	14.5
42.5°	34.7	32.2	27.1	22.7	22.1	22.7	17.0	12.0	10.1	10.1	10.1
45°	32.2	29.6	24.0	18.9	15.8	17.7	13.2	8.2	6.3	6.3	6.3
47.5°	30.3	27.7	21.4	15.8	11.3	12.0	9.5	5.0	3.8	2.5	3.2
50°	29.0	25.8	19.5	12.6	8.2	6.9	6.3	2.5	0.6	0.6	0.0
52.5°	27.1	24.6	17.7	10.7	6.3	4.4	3.2	0.6	0.0	0.0	0.0
55°	25.8	22.7	15.8	9.5	5.0	2.5	0.6	0.0	0.0	0.0	0.0
57.5°	23.3	20.8	13.9	7.6	3.8	1.3	0.0	0.0	0.0	0.0	0.0
60°	20.8	18.9	12.0	5.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0
61°	19.5	17.7	11.3	5.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	18.3	16.4	10.1	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	15.8	13.9	8.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13.9	12.6	7.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	12.0	10.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10.1	9.5	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	8.8	7.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.9	6.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	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



REPORT NUMBER: P401295

CATALOG NUMBER: ENV-SA1C-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1104.5	1126.6	1147.4	1173.8	1188.3	1228.1	1256.4	1280.4	1299.3	1303.1	1318.2
5°	934.3	965.2	985.3	1040.8	1071.7	1137.9	1189.0	1249.5	1303.7	1333.3	1360.4
7.5°	703.5	718.7	753.4	808.8	882.0	939.3	1025.7	1102.0	1199.7	1253.3	1303.7
10°	496.8	510.6	561.7	619.7	686.5	783.0	887.6	987.9	1086.8	1155.6	1214.8
12.5°	349.3	394.6	445.1	518.8	584.4	655.0	766.6	883.8	1007.4	1073.0	1137.3
15°	229.5	269.8	339.8	432.5	514.4	583.1	687.2	824.6	981.6	1054.7	1115.8
17.5°	113.5	143.1	204.9	304.5	413.6	522.0	647.4	813.9	1015.0	1097.6	1154.9
20°	71.2	80.1	102.8	172.1	297.6	457.7	617.8	835.3	1105.8	1197.2	1234.4
22.5°	57.4	59.9	68.7	91.4	181.6	378.3	592.0	864.3	1205.4	1316.9	1355.4
25°	49.2	51.1	56.1	67.5	105.3	283.7	560.4	915.4	1321.4	1456.3	1465.7
27.5°	42.2	44.1	48.5	57.4	75.0	191.0	515.1	975.3	1460.1	1578.6	1572.3
30°	35.9	38.5	42.9	49.2	59.3	129.2	430.6	1035.8	1562.2	1657.4	1647.3
32.5°	30.9	32.8	36.6	42.2	49.2	88.9	323.4	1075.5	1647.3	1731.8	1709.7
35°	25.2	27.1	30.3	35.3	39.7	63.0	244.6	1076.8	1734.9	1823.8	1768.3
37.5°	20.2	21.4	24.6	29.0	32.8	49.2	179.7	1056.0	1843.3	1943.6	1835.2
40°	15.1	17.0	20.2	24.0	27.7	41.6	134.3	1005.5	1949.3	2063.4	1915.8
42.5°	10.1	12.6	15.8	19.5	26.5	33.4	94.6	921.7	2035.0	2169.9	1994.7
45°	6.3	8.2	12.0	16.4	27.1	26.5	63.0	821.4	2096.1	2251.2	2048.2
47.5°	3.2	5.0	8.8	15.8	24.0	19.5	39.1	725.6	2151.6	2298.5	2072.8
50°	0.6	1.9	6.3	19.5	20.2	14.5	25.8	665.7	2180.6	2286.5	2070.3
52.5°	0.0	0.0	4.4	18.9	14.5	11.3	20.2	656.9	2226.0	2302.3	2113.8
55°	0.0	0.0	1.9	8.2	8.2	9.5	17.7	644.9	2306.7	2396.2	2244.9
57.5°	0.0	0.0	0.0	3.8	5.0	7.6	16.4	613.4	2391.8	2495.8	2404.4
60°	0.0	0.0	0.0	1.9	3.2	6.3	14.5	541.5	2313.6	2496.5	2536.8
61°	0.0	0.0	0.0	1.9	2.5	5.7	13.2	516.3	2243.7	2456.1	2553.2
62.5°	0.0	0.0	0.0	0.6	1.9	4.4	11.3	466.5	2139.0	2391.2	2545.6
65°	0.0	0.0	0.0	0.0	0.6	2.5	8.8	377.0	1964.4	2227.9	2458.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.6	5.7	265.4	1713.5	2043.2	2272.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	153.8	1380.6	1729.9	1946.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	70.0	895.8	1335.9	1535.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.6	551.6	965.2	1147.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	373.8	642.4	772.3
80°	0.0	1.3	0.6	0.0	0.0	0.0	0.0	5.0	230.1	400.9	435.6
82.5°	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	119.1	283.1	288.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.8	59.9
87.5°	0.0	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



REPORT NUMBER: P401295

CATALOG NUMBER: ENV-SA1C-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1332.1	1335.9	1338.4	1334.0	1306.9	1291.7	1261.5	1228.1	1216.7	1213.6
5°	1409.6	1431.1	1427.3	1398.3	1351.0	1293.0	1221.1	1146.7	1118.4	1107.6
7.5°	1394.5	1450.6	1461.3	1431.1	1351.0	1249.5	1145.5	1057.2	1016.2	1005.5
10°	1317.6	1388.2	1422.2	1412.8	1337.8	1220.5	1092.5	984.1	939.3	925.5
12.5°	1243.2	1311.3	1332.7	1340.3	1299.3	1197.8	1066.0	949.4	902.8	885.1
15°	1193.4	1235.6	1234.4	1248.2	1245.1	1189.0	1083.1	967.1	914.7	891.4
17.5°	1177.0	1164.4	1148.0	1159.3	1181.4	1191.5	1138.5	1030.1	969.0	941.8
20°	1187.1	1125.3	1089.4	1088.7	1135.4	1212.3	1219.9	1134.1	1076.8	1040.2
22.5°	1238.8	1105.8	1050.3	1051.5	1108.9	1243.2	1313.8	1270.3	1207.3	1161.9
25°	1315.1	1109.5	1035.2	1042.7	1106.4	1270.3	1415.3	1425.4	1344.7	1305.0
27.5°	1392.6	1142.3	1035.8	1044.0	1117.1	1284.8	1473.3	1539.5	1470.1	1421.0
30°	1446.8	1182.7	1047.1	1056.0	1134.1	1296.1	1495.4	1633.4	1561.6	1506.7
32.5°	1497.9	1224.3	1065.4	1074.2	1168.2	1319.5	1537.0	1728.0	1649.2	1595.0
35°	1547.7	1265.3	1099.5	1115.2	1223.0	1361.7	1579.2	1838.9	1773.4	1698.4
37.5°	1590.6	1310.6	1158.1	1191.5	1297.4	1426.6	1636.6	1965.0	1897.6	1813.7
40°	1626.5	1364.2	1279.1	1316.3	1410.9	1495.4	1700.2	2047.6	2002.8	1912.7
42.5°	1655.5	1458.8	1452.5	1504.8	1571.0	1574.2	1718.5	2087.3	2070.3	1990.2
45°	1704.0	1628.4	1680.1	1765.8	1761.4	1668.7	1713.5	2123.9	2125.1	2057.1
47.5°	1783.5	1840.8	1990.2	2048.2	2018.6	1798.0	1718.5	2159.8	2188.2	2134.6
50°	1896.9	2081.6	2277.1	2354.0	2267.6	1927.8	1763.3	2202.7	2288.4	2249.3
52.5°	1994.0	2263.8	2541.9	2610.6	2492.7	2066.5	1867.9	2295.4	2422.7	2410.1
55°	2132.7	2420.8	2730.4	2783.3	2688.7	2223.5	2008.5	2431.5	2570.2	2576.5
57.5°	2274.6	2562.7	2853.3	2906.9	2835.0	2418.9	2208.4	2627.0	2708.9	2707.0
60°	2432.2	2695.0	2908.8	2938.4	2897.4	2614.4	2423.3	2806.0	2804.1	2760.6
61°	2522.3	2737.3	2905.0	2913.8	2874.1	2671.7	2534.3	2874.7	2818.0	2760.6
62.5°	2621.9	2775.7	2858.3	2828.7	2785.8	2691.9	2695.0	2949.7	2827.4	2739.2
65°	2722.8	2679.3	2643.4	2501.5	2461.2	2506.6	2830.6	2921.4	2770.1	2644.0
67.5°	2550.1	2296.0	2218.5	2076.0	1916.5	2101.8	2702.0	2748.0	2576.5	2408.8
70°	2084.2	1687.0	1595.0	1589.9	1475.2	1678.8	2383.0	2349.6	2138.4	1984.6
72.5°	1633.4	1151.1	1025.7	1054.7	1032.0	1251.4	1949.3	1576.7	1371.2	1268.4
75°	1280.4	818.3	706.1	701.0	676.4	852.3	1427.3	830.9	685.9	612.8
77.5°	844.8	589.4	587.6	542.8	523.9	462.1	640.5	332.9	271.7	274.2
80°	486.7	361.2	423.6	336.0	336.6	271.1	259.1	48.5	39.1	28.4
82.5°	279.3	173.4	131.1	51.7	108.4	108.4	20.8	0.6	0.6	1.3
85°	27.1	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
87.5°	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

(END OF REPORT)