

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: STREETWORKS

Report Number: P561354

Luminaire Tested: **SDL-PA1-90-830-U-T2U-HSS**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-6)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-90-830-U-T2U-HSS
Description: Springdale
(1) 80 CRI, 3000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5870.6 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

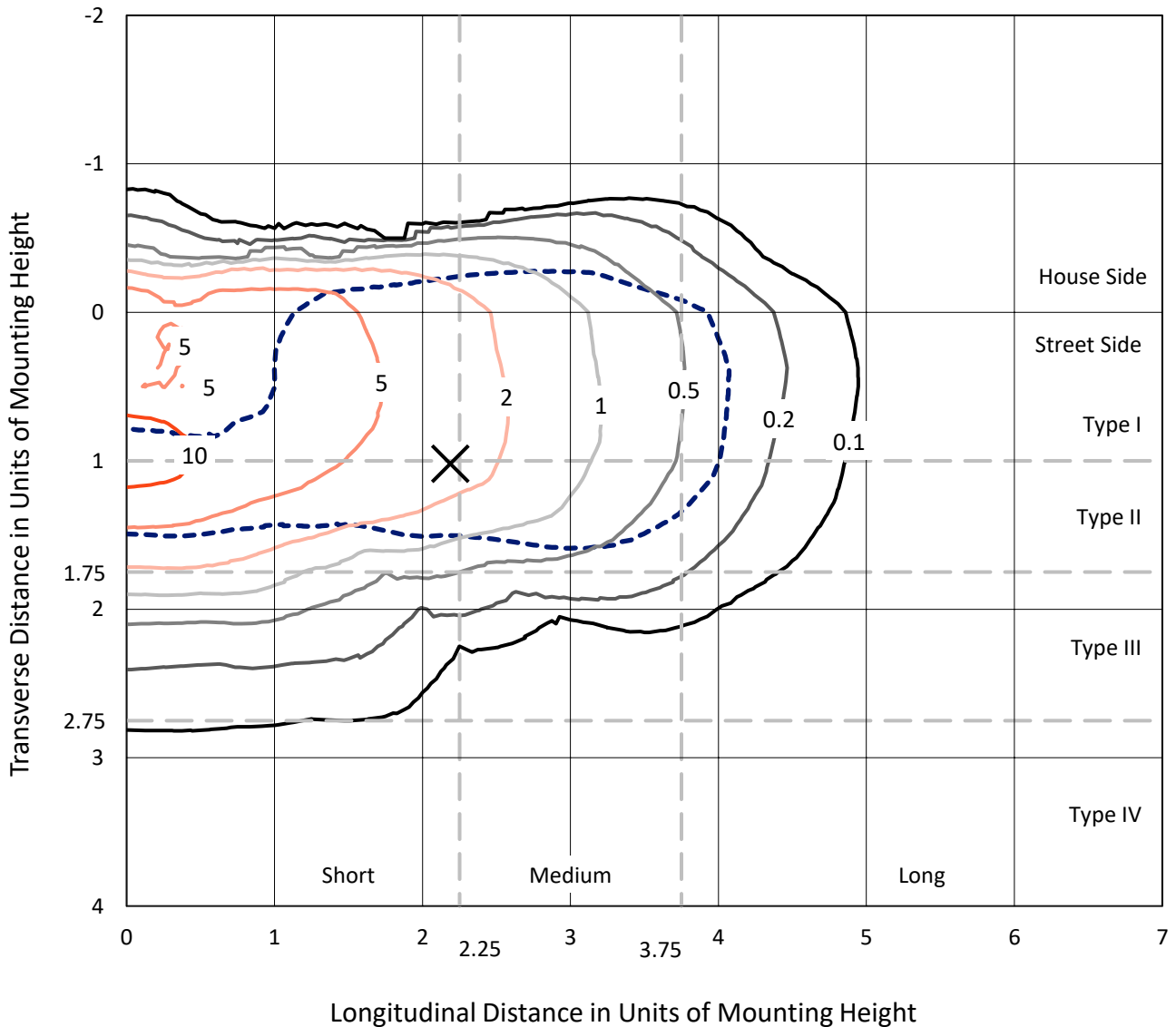
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P561354
 CATALOG NUMBER: SDL-PA1-90-830-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

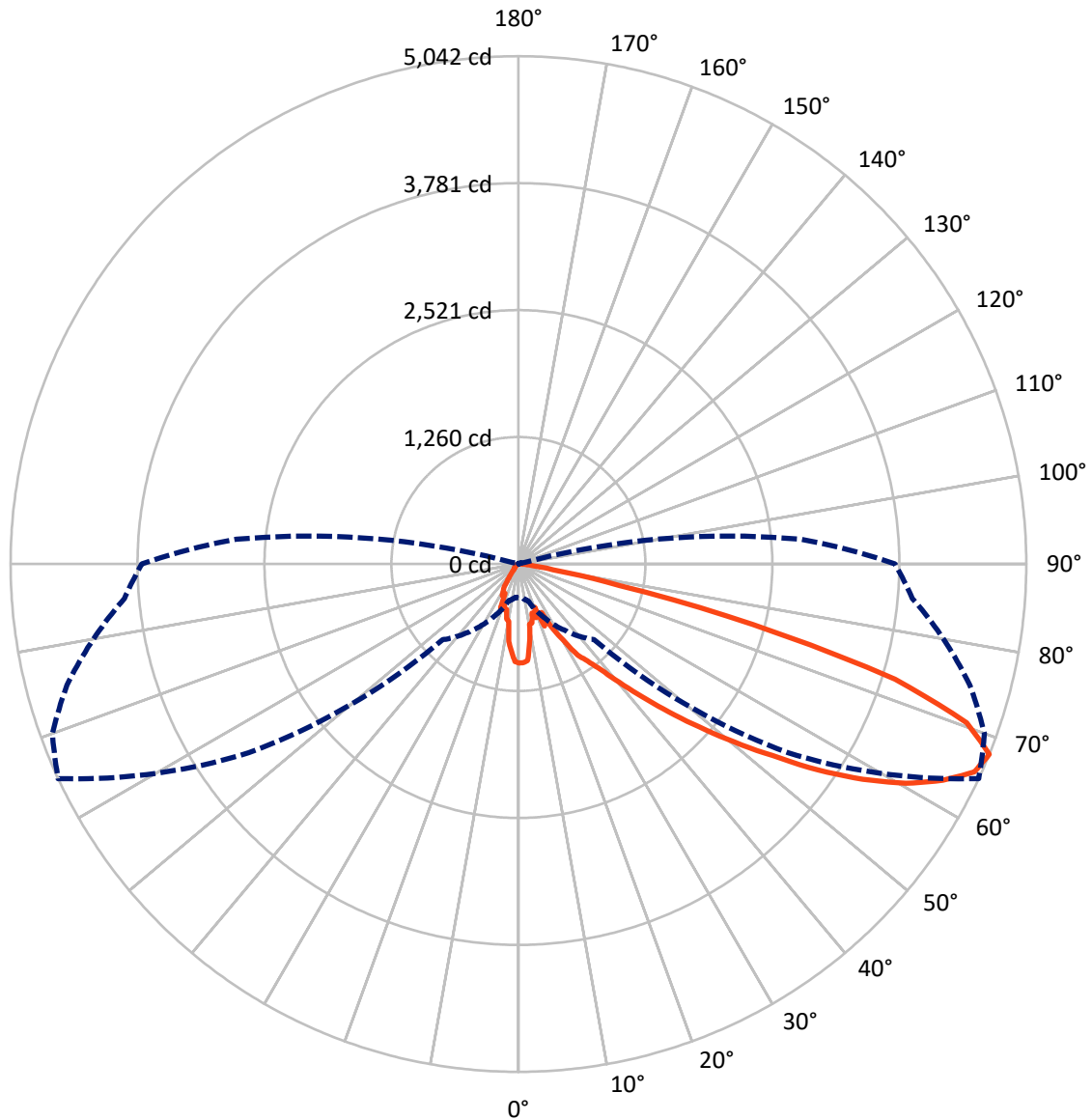
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

REPORT NUMBER: P561354
CATALOG NUMBER: SDL-PA1-90-830-U-T2U-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P561354

CATALOG NUMBER: SDL-PA1-90-830-U-T2U-HSS

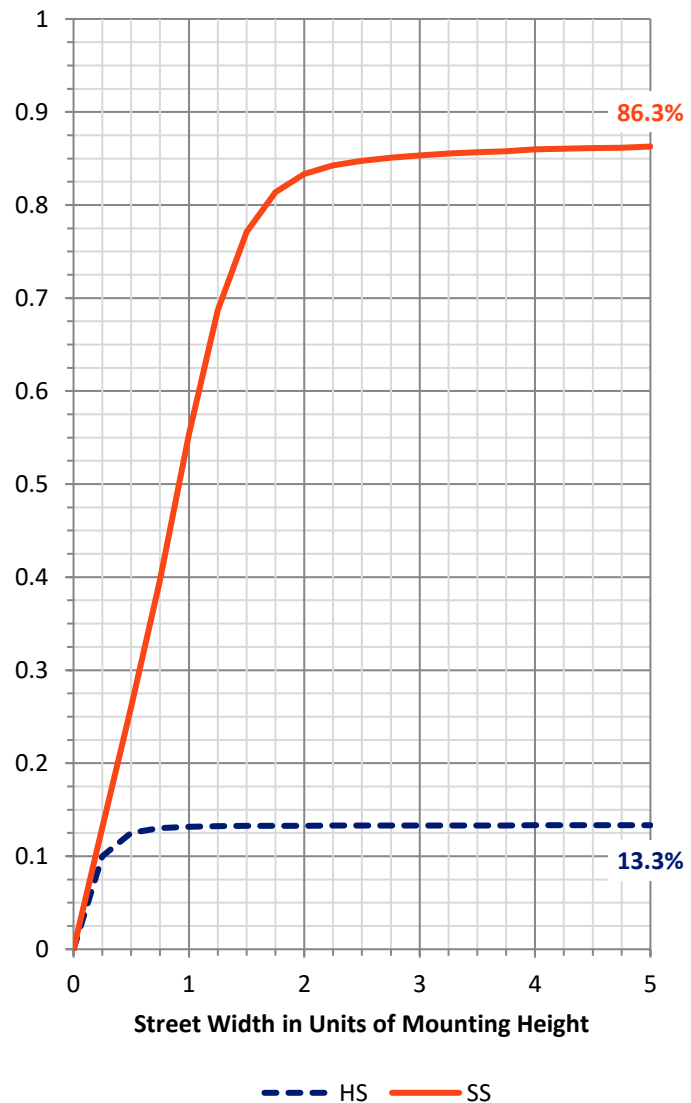
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	793.8	0.0	793.8
	% Fixture	13.5	0.0	13.5
Street Side	Lumens	5076.8	0.0	5076.8
	% Fixture	86.5	0.0	86.5
Total	Lumens	5870.6	0.0	5870.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	1.3
10°-20°	145.9	2.5
20°-30°	220.3	3.8
30°-40°	507.5	8.6
40°-50°	1113.4	19.0
50°-60°	1634.5	27.8
60°-70°	1419.6	24.2
70°-80°	703.9	12.0
80°-90°	50.0	0.9
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°	5870.6	100.0
0°-180°	5870.6	100.0



REPORT NUMBER: P561354

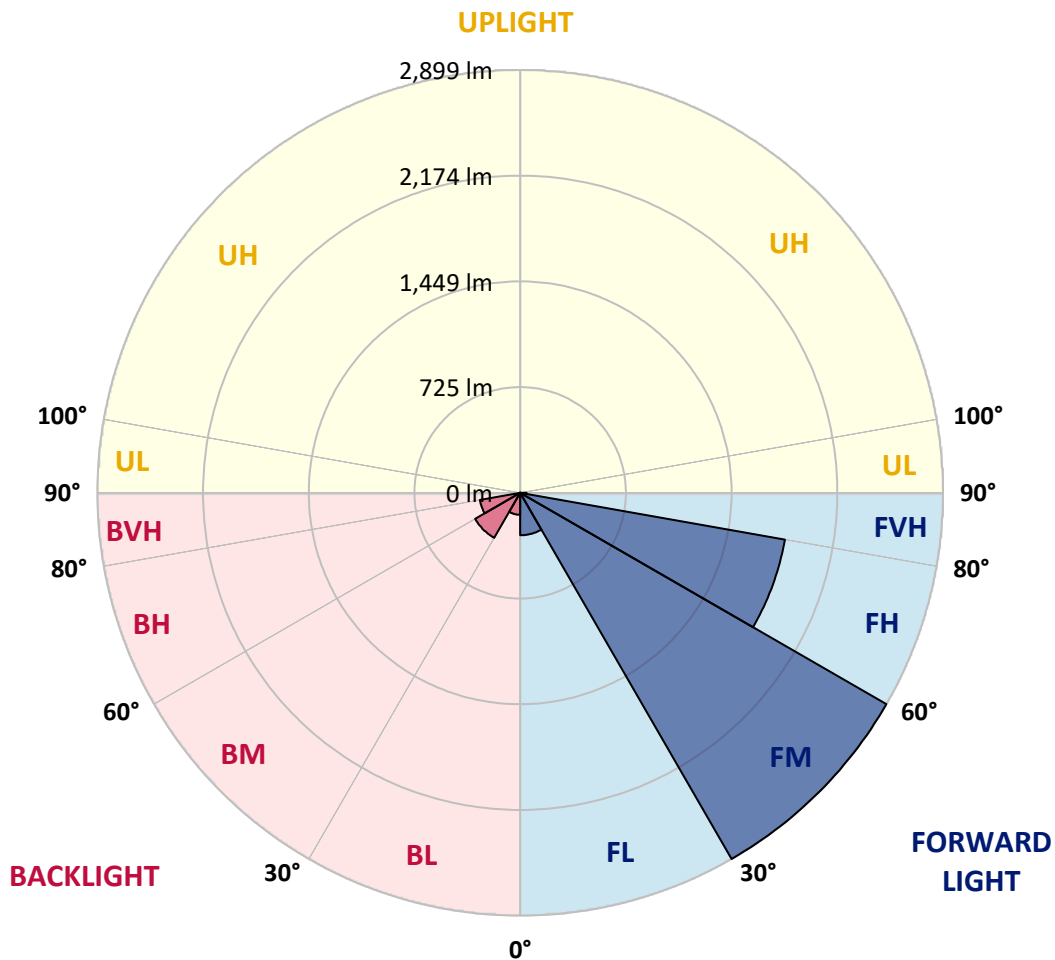
CATALOG NUMBER: SDL-PA1-90-830-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	291.0	5.0			
FM	(30°-60°)	2898.8	49.4			
FH	(60°-80°)	1843.1	31.4			G2/5000
FVH	(80°-90°)	44.0	0.7			G1/100
BL	(0°-30°)	150.8	2.6	B1/500		
BM	(30°-60°)	356.5	6.1	B1/1000		
BH	(60°-80°)	280.5	4.8	B1/500		G1/500
BVH	(80°-90°)	6.0	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-G2

Type II Short





REPORT NUMBER: P561354

CATALOG NUMBER: SDL-PA1-90-830-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9
2.5°	823.0	891.1	911.8	932.5	950.3	968.1	971.0	974.0	979.9	982.9	985.8
5°	805.2	808.2	808.2	805.2	808.2	811.2	811.2	811.2	811.2	811.2	814.1
7.5°	645.4	722.3	746.0	766.8	778.6	787.5	793.4	796.4	799.3	802.3	805.2
10°	778.6	775.6	778.6	778.6	781.6	781.6	713.5	645.4	669.1	689.8	654.3
12.5°	618.7	680.9	707.5	734.2	752.0	766.8	737.2	704.6	642.4	577.3	580.2
15°	746.0	746.0	746.0	746.0	689.8	630.6	592.1	550.6	583.2	612.8	553.6
17.5°	601.0	601.0	654.3	707.5	707.5	704.6	666.1	624.7	541.8	458.9	532.9
20°	743.1	743.1	746.0	749.0	651.3	553.6	586.2	615.8	627.6	639.5	612.8
22.5°	606.9	606.9	615.8	621.7	657.2	692.7	598.0	503.3	580.2	657.2	603.9
25°	784.5	787.5	793.4	796.4	707.5	615.8	657.2	698.7	615.8	532.9	615.8
27.5°	710.5	698.7	698.7	695.7	725.3	752.0	692.7	633.5	686.8	740.1	677.9
30°	997.7	988.8	976.9	965.1	852.6	740.1	743.1	743.1	722.3	701.6	737.2
32.5°	1382.5	1367.7	1267.1	1166.4	1083.5	1000.6	914.8	828.9	858.5	885.2	867.4
35°	1856.2	1856.2	1761.5	1666.7	1480.2	1293.7	1148.7	1000.6	988.8	976.9	994.7
37.5°	2418.7	2359.5	2247.0	2134.5	1903.6	1669.7	1447.7	1225.6	1199.0	1169.4	1139.8
40°	2836.1	2827.2	2741.4	2655.5	2371.3	2087.1	1826.6	1563.1	1477.3	1388.4	1323.3
42.5°	3271.3	3238.7	3170.6	3099.6	2812.4	2522.3	2244.0	1962.8	1844.4	1725.9	1610.5
45°	3585.1	3576.2	3517.0	3457.8	3223.9	2987.1	2697.0	2403.9	2326.9	2249.9	2033.8
47.5°	3780.5	3730.2	3706.5	3679.8	3478.5	3277.2	3031.5	2782.8	2771.0	2756.2	2483.8
50°	3721.3	3676.9	3682.8	3688.7	3591.0	3493.3	3306.8	3117.3	3149.9	3182.5	2957.5
52.5°	3407.5	3369.0	3422.3	3472.6	3469.6	3466.7	3398.6	3327.5	3446.0	3561.4	3407.5
55°	2779.9	2806.5	2913.1	3019.7	3090.7	3158.8	3256.5	3351.2	3576.2	3798.3	3768.6
57.5°	2178.9	2238.1	2347.6	2454.2	2569.7	2682.2	2889.4	3096.6	3475.6	3851.5	3981.8
60°	1462.5	1500.9	1693.4	1882.8	1989.4	2096.0	2321.0	2543.0	3058.1	3570.3	3910.7
62.5°	908.9	929.6	1039.1	1148.7	1364.8	1580.9	1693.4	1802.9	2359.5	2913.1	3543.7
65°	559.5	553.6	598.0	639.5	852.6	1062.8	1136.8	1207.9	1577.9	1945.0	2924.9
67.5°	334.5	331.6	355.3	378.9	476.6	574.3	689.8	805.2	935.5	1062.8	2167.0
70°	272.4	278.3	287.2	296.0	322.7	349.3	455.9	562.5	559.5	556.6	1302.6
72.5°	228.0	233.9	251.6	266.4	287.2	304.9	367.1	426.3	399.7	373.0	621.7
75°	168.7	171.7	195.4	216.1	248.7	278.3	293.1	304.9	293.1	281.2	313.8
77.5°	112.5	112.5	133.2	153.9	186.5	219.1	236.8	254.6	233.9	213.2	222.0
80°	71.1	71.1	82.9	91.8	124.3	156.9	177.6	198.3	180.6	159.9	156.9
82.5°	41.4	44.4	50.3	56.2	77.0	97.7	112.5	127.3	148.0	165.8	133.2
85°	17.8	20.7	26.6	29.6	41.4	50.3	59.2	68.1	85.9	103.6	85.9
87.5°	3.0	3.0	5.9	8.9	11.8	14.8	14.8	14.8	14.8	11.8	14.8
90°	0.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	5.9



REPORT NUMBER: P561354

CATALOG NUMBER: SDL-PA1-90-830-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9
2.5°	985.8	982.9	979.9	979.9	979.9	976.9	974.0	974.0	974.0	971.0	968.1
5°	814.1	888.1	962.1	965.1	971.0	968.1	965.1	962.1	959.2	956.2	950.3
7.5°	805.2	799.3	793.4	772.7	843.7	843.7	840.8	840.8	834.8	811.2	787.5
10°	615.8	612.8	606.9	615.8	630.6	680.9	728.3	725.3	716.4	660.2	603.9
12.5°	583.2	592.1	601.0	571.4	515.1	562.5	609.9	603.9	598.0	547.7	494.4
15°	494.4	500.3	506.2	553.6	639.5	683.9	725.3	719.4	713.5	654.3	592.1
17.5°	606.9	583.2	559.5	592.1	562.5	583.2	603.9	580.2	562.5	538.8	515.1
20°	583.2	521.0	458.9	553.6	663.1	698.7	734.2	725.3	707.5	651.3	592.1
22.5°	547.7	609.9	669.1	639.5	586.2	553.6	521.0	506.2	494.4	497.4	500.3
25°	695.7	615.8	532.9	675.0	760.8	772.7	781.6	754.9	725.3	663.1	598.0
27.5°	612.8	672.0	728.3	784.5	814.1	823.0	828.9	867.4	805.2	722.3	639.5
30°	772.7	823.0	873.3	997.7	1098.3	1116.1	1133.9	1089.4	1039.1	938.5	837.8
32.5°	849.6	965.1	1077.6	1136.8	1178.3	1193.1	1207.9	1148.7	1092.4	962.1	828.9
35°	1009.5	1095.4	1181.2	1249.3	1329.2	1332.2	1335.2	1270.0	1199.0	1009.5	820.0
37.5°	1107.2	1219.7	1329.2	1406.2	1530.5	1521.7	1512.8	1435.8	1350.0	1083.5	817.1
40°	1255.2	1400.3	1542.4	1616.4	1767.4	1740.7	1714.1	1625.3	1530.5	1163.5	796.4
42.5°	1495.0	1649.0	1802.9	1865.1	2030.9	2001.3	1968.7	1850.3	1728.9	1228.6	728.3
45°	1814.8	1953.9	2093.0	2202.6	2332.8	2285.5	2238.1	2110.8	1933.2	1284.8	636.5
47.5°	2208.5	2312.1	2415.7	2631.8	2726.6	2631.8	2534.1	2380.2	2155.2	1332.2	509.2
50°	2732.5	2756.2	2776.9	3046.3	3141.0	2996.0	2850.9	2652.6	2383.2	1385.5	384.9
52.5°	3250.6	3206.2	3158.8	3448.9	3484.4	3292.0	3096.6	2889.4	2551.9	1415.1	275.3
55°	3739.0	3676.9	3611.7	3819.0	3795.3	3540.7	3286.1	3034.5	2655.5	1424.0	192.4
57.5°	4112.1	4073.6	4032.1	4126.9	4038.0	3739.0	3440.0	3188.4	2732.5	1438.8	142.1
60°	4248.2	4334.1	4419.9	4408.1	4245.3	3928.5	3611.7	3345.3	2779.9	1444.7	106.6
62.5°	4174.2	4452.5	4727.8	4615.3	4417.0	4082.5	3745.0	3487.4	2800.6	1441.7	82.9
65°	3904.8	4440.7	4973.5	4787.0	4538.4	4203.8	3869.3	3638.4	2824.3	1444.7	65.1
67.5°	3268.3	4156.5	5041.6	4923.2	4639.0	4283.8	3925.5	3739.0	2812.4	1432.9	53.3
70°	2045.7	3383.8	4721.9	4813.7	4639.0	4248.2	3857.5	3709.4	2705.8	1373.6	41.4
72.5°	867.4	2389.1	3910.7	4310.4	4431.8	4052.8	3673.9	3490.4	2477.9	1255.2	32.6
75°	343.4	1373.6	2403.9	3037.4	3410.4	3250.6	3087.7	2842.0	1625.3	826.0	23.7
77.5°	230.9	627.6	1024.3	1492.1	1779.2	1841.4	1903.6	1622.3	648.3	334.5	17.8
80°	153.9	251.6	349.3	535.8	639.5	603.9	565.4	464.8	198.3	106.6	14.8
82.5°	97.7	130.3	162.8	183.5	189.5	136.2	82.9	68.1	23.7	17.8	8.9
85°	65.1	77.0	88.8	91.8	91.8	65.1	35.5	17.8	8.9	8.9	5.9
87.5°	17.8	20.7	20.7	20.7	14.8	11.8	8.9	5.9	5.9	5.9	5.9
90°	8.9	11.8	11.8	11.8	8.9	8.9	5.9	5.9	5.9	5.9	5.9



REPORT NUMBER: P561354

CATALOG NUMBER: SDL-PA1-90-830-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9
2.5°	968.1	968.1	965.1	962.1	962.1	959.2	929.6	897.0	867.4	834.8	831.9
5°	911.8	870.4	831.9	793.4	787.5	778.6	778.6	775.6	775.6	772.7	772.7
7.5°	781.6	775.6	769.7	763.8	760.8	754.9	752.0	746.0	743.1	737.2	704.6
10°	592.1	577.3	577.3	574.3	580.2	586.2	583.2	577.3	615.8	654.3	651.3
12.5°	527.0	556.6	529.9	500.3	509.2	515.1	524.0	532.9	529.9	524.0	479.6
15°	529.9	464.8	444.1	420.4	432.2	441.1	364.1	284.2	269.4	254.6	236.8
17.5°	494.4	473.7	458.9	441.1	337.5	230.9	207.2	183.5	162.8	139.1	136.2
20°	500.3	405.6	378.9	349.3	269.4	189.5	145.1	100.7	88.8	77.0	88.8
22.5°	488.5	473.7	346.4	219.1	162.8	106.6	88.8	68.1	74.0	79.9	79.9
25°	458.9	319.7	248.7	177.6	124.3	68.1	71.1	71.1	65.1	56.2	62.2
27.5°	497.4	352.3	225.0	94.7	82.9	68.1	62.2	53.3	53.3	53.3	50.3
30°	574.3	307.9	192.4	77.0	65.1	53.3	50.3	47.4	44.4	38.5	41.4
32.5°	544.7	260.5	162.8	65.1	56.2	47.4	41.4	35.5	35.5	35.5	35.5
35°	494.4	165.8	112.5	56.2	47.4	38.5	35.5	29.6	29.6	29.6	29.6
37.5°	461.8	106.6	77.0	44.4	38.5	32.6	29.6	23.7	23.7	23.7	26.6
40°	435.2	74.0	56.2	38.5	32.6	23.7	20.7	17.8	20.7	20.7	20.7
42.5°	396.7	62.2	47.4	32.6	26.6	20.7	17.8	14.8	17.8	17.8	17.8
45°	346.4	56.2	41.4	26.6	23.7	17.8	14.8	11.8	14.8	14.8	14.8
47.5°	278.3	47.4	35.5	23.7	20.7	14.8	14.8	11.8	11.8	11.8	11.8
50°	216.1	44.4	32.6	20.7	17.8	11.8	11.8	8.9	11.8	11.8	11.8
52.5°	156.9	38.5	29.6	17.8	14.8	8.9	8.9	8.9	8.9	8.9	8.9
55°	112.5	32.6	23.7	14.8	11.8	8.9	8.9	5.9	8.9	8.9	8.9
57.5°	85.9	29.6	20.7	11.8	8.9	5.9	5.9	5.9	5.9	5.9	5.9
60°	68.1	26.6	20.7	11.8	8.9	5.9	5.9	3.0	5.9	5.9	5.9
62.5°	53.3	20.7	17.8	11.8	8.9	5.9	5.9	3.0	5.9	5.9	5.9
65°	41.4	17.8	14.8	8.9	5.9	3.0	3.0	3.0	5.9	5.9	5.9
67.5°	35.5	14.8	11.8	8.9	5.9	3.0	5.9	5.9	5.9	5.9	5.9
70°	29.6	14.8	11.8	8.9	5.9	3.0	5.9	5.9	8.9	8.9	5.9
72.5°	23.7	11.8	8.9	5.9	5.9	3.0	5.9	5.9	8.9	8.9	5.9
75°	17.8	8.9	8.9	5.9	5.9	3.0	5.9	8.9	8.9	8.9	5.9
77.5°	14.8	8.9	8.9	5.9	5.9	3.0	5.9	8.9	8.9	8.9	8.9
80°	11.8	5.9	5.9	5.9	3.0	0.0	5.9	11.8	11.8	8.9	8.9
82.5°	8.9	5.9	5.9	5.9	3.0	0.0	5.9	11.8	11.8	8.9	8.9
85°	5.9	5.9	5.9	5.9	5.9	3.0	8.9	11.8	11.8	8.9	8.9
87.5°	5.9	5.9	5.9	5.9	5.9	3.0	5.9	8.9	8.9	8.9	8.9
90°	5.9	5.9	8.9	8.9	5.9	3.0	5.9	8.9	8.9	8.9	8.9



REPORT NUMBER: P561354
 CATALOG NUMBER: SDL-PA1-90-830-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	982.9	982.9	982.9	982.9
2.5°	826.0	831.9	834.8	828.9
5°	769.7	769.7	766.8	775.6
7.5°	669.1	651.3	630.6	615.8
10°	645.4	630.6	615.8	618.7
12.5°	432.2	387.8	343.4	358.2
15°	219.1	207.2	195.4	195.4
17.5°	130.3	118.4	103.6	106.6
20°	97.7	97.7	97.7	97.7
22.5°	77.0	74.0	68.1	65.1
25°	65.1	65.1	65.1	65.1
27.5°	47.4	47.4	44.4	41.4
30°	41.4	41.4	41.4	38.5
32.5°	32.6	35.5	35.5	35.5
35°	29.6	29.6	29.6	29.6
37.5°	26.6	26.6	23.7	23.7
40°	20.7	20.7	20.7	20.7
42.5°	17.8	17.8	17.8	17.8
45°	14.8	14.8	14.8	14.8
47.5°	11.8	11.8	11.8	11.8
50°	11.8	11.8	8.9	8.9
52.5°	8.9	8.9	5.9	5.9
55°	5.9	5.9	5.9	5.9
57.5°	5.9	5.9	3.0	3.0
60°	5.9	5.9	3.0	3.0
62.5°	3.0	3.0	3.0	3.0
65°	3.0	3.0	0.0	0.0
67.5°	3.0	3.0	0.0	0.0
70°	3.0	3.0	0.0	0.0
72.5°	3.0	3.0	0.0	0.0
75°	3.0	3.0	0.0	0.0
77.5°	5.9	3.0	0.0	0.0
80°	5.9	5.9	3.0	0.0
82.5°	5.9	5.9	3.0	0.0
85°	5.9	5.9	3.0	0.0
87.5°	5.9	5.9	3.0	0.0
90°	5.9	5.9	3.0	0.0

(END OF REPORT)