

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: P561287

Luminaire Tested: **SDL-PA1-90-750-U-T2U-HSS-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-5)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-90-750-U-T2U-HSS-A
Description: Springdale
(1) 70 CRI, 5000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS,
HOUSE SIDE SHIELD AND CLEARPANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6949.9 lumens
Efficiency: N/A
Efficacy: 75.2 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 - U3 - 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



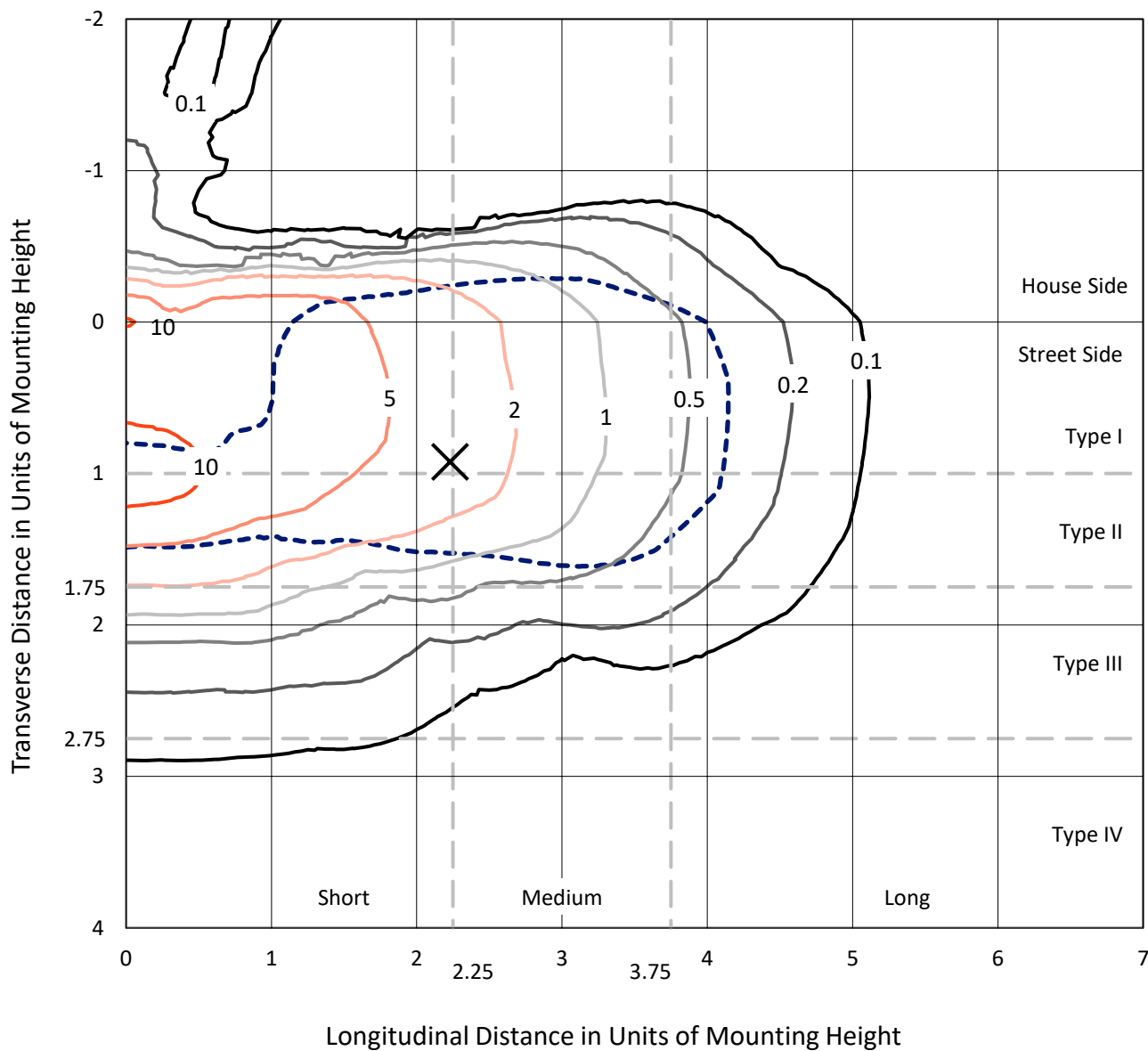
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



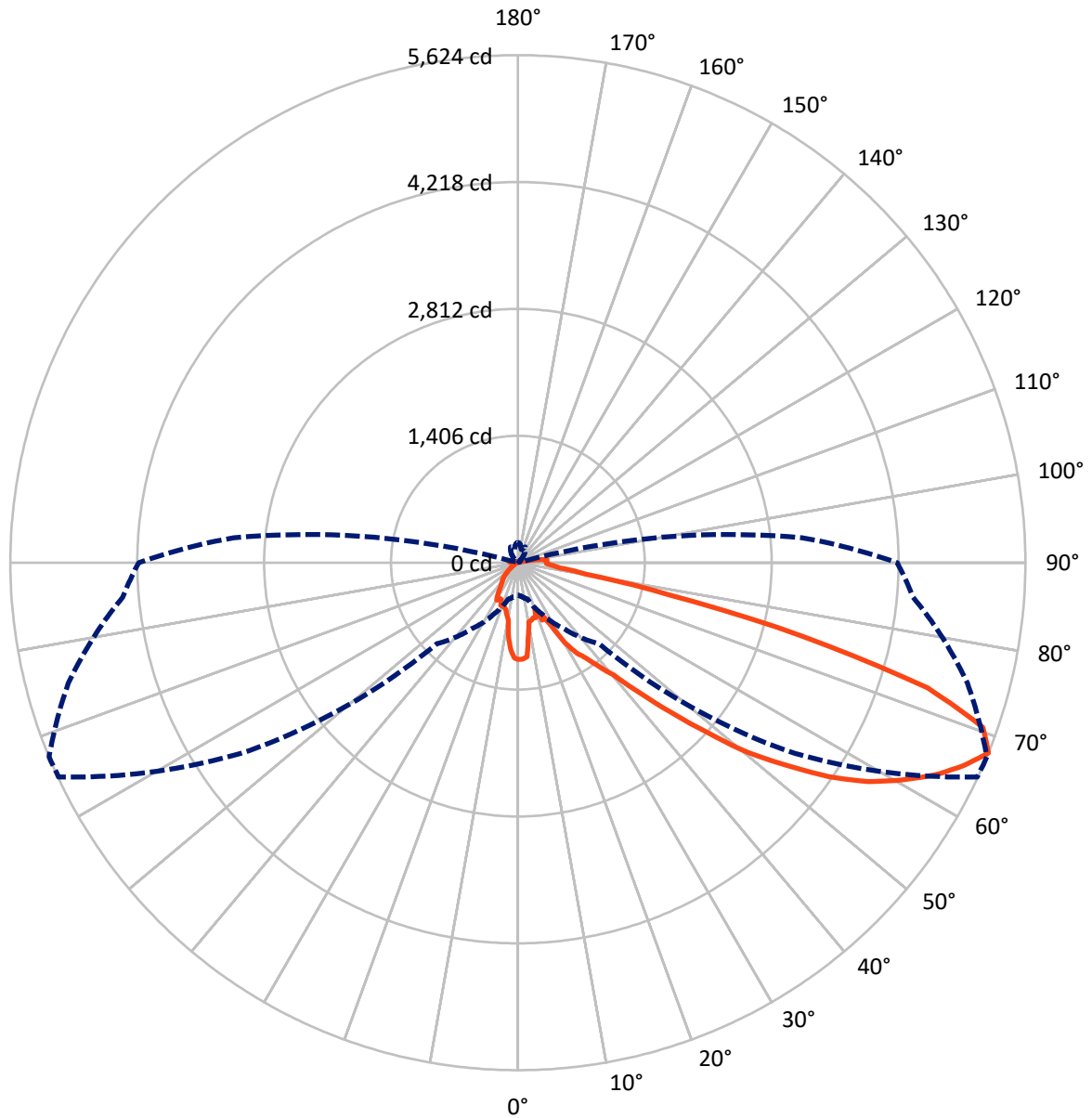
Based on 10 foot mounting height. Maximum calculated value = 14 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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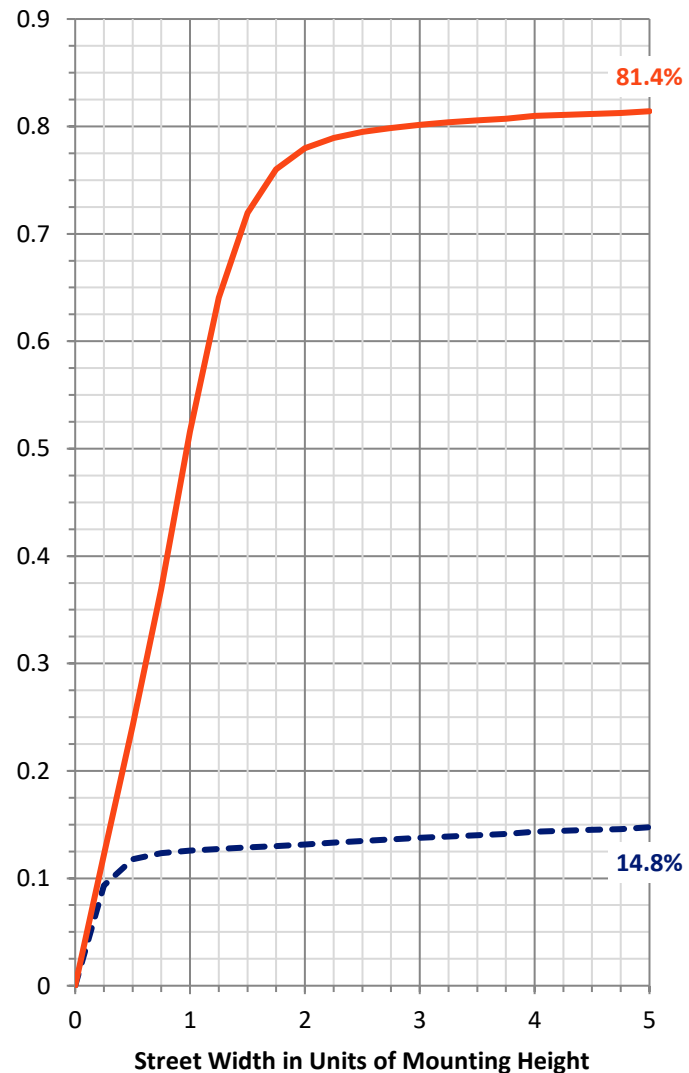
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1087.5	81.0	1168.6
	% Fixture	15.6	1.2	16.8
Street Side	Lumens	5695.1	86.2	5781.3
	% Fixture	81.9	1.2	83.2
Total	Lumens	6782.7	167.2	6949.9
	% Fixture	97.6	2.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	1.2
10°-20°	157.1	2.3
20°-30°	237.0	3.4
30°-40°	545.9	7.9
40°-50°	1216.8	17.5
50°-60°	1810.6	26.1
60°-70°	1614.8	23.2
70°-80°	906.4	13.0
80°-90°	211.6	3.0
90°-100°	116.2	1.7
100°-110°	26.7	0.4
110°-120°	10.5	0.2
120°-130°	7.0	0.1
130°-140°	3.6	0.1
140°-150°	1.7	0.0
150°-160°	1.4	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	6782.7	97.6
0°-180°	6949.9	100.0



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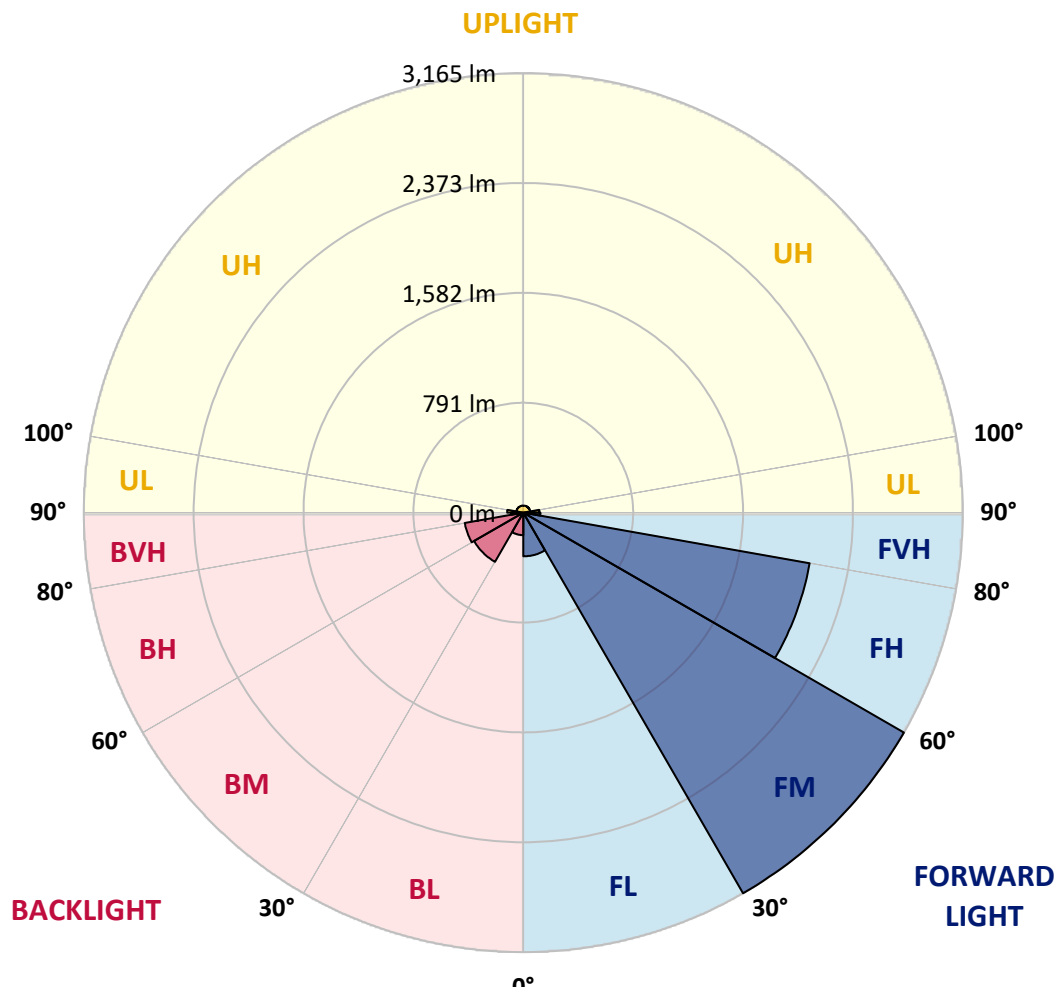
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	314.4	4.5			
FM	(30°-60°)	3164.5	45.5			
FH	(60°-80°)	2093.4	30.1			G2/5000
FVH	(80°-90°)	122.8	1.8			G2/225
BL	(0°-30°)	162.1	2.3	B1/500		
BM	(30°-60°)	408.8	5.9	B1/1000		
BH	(60°-80°)	427.9	6.2	B1/500		G1/500
BVH	(80°-90°)	88.8	1.3			G1/100
UL	(90°-100°)	116.2	1.7		U3/500	
UH	(100°-180°)	51.0	0.7		U3/500	

BUG Rating: B1-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67.5°	75°	85°
0°	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1
2.5°	908.9	960.8	1016.4	1053.5	1061.0	1072.1	1072.1	1068.4	1068.4	1064.7	1064.7
5°	882.9	879.2	882.9	890.3	886.6	886.6	886.6	1035.0	1046.1	1053.5	1053.5
7.5°	760.5	779.0	838.4	860.6	868.1	875.5	875.5	864.3	823.5	912.6	923.7
10°	827.2	823.5	823.5	831.0	775.3	753.1	678.9	667.7	667.7	697.4	793.9
12.5°	693.7	734.5	790.2	812.4	749.3	664.0	645.5	660.3	656.6	575.0	671.4
15°	786.4	786.4	779.0	764.2	589.8	660.3	556.4	556.4	634.3	682.6	767.9
17.5°	638.1	656.6	749.3	738.2	649.2	497.1	649.2	597.3	641.8	601.0	645.5
20°	782.7	779.0	782.7	597.3	660.3	682.6	649.2	582.4	530.5	697.4	771.6
22.5°	645.5	638.1	675.2	738.2	623.2	708.5	593.5	708.5	690.0	619.5	556.4
25°	834.7	831.0	838.4	652.9	730.8	634.3	730.8	634.3	664.0	793.9	812.4
27.5°	753.1	749.3	738.2	797.6	693.7	801.3	690.0	775.3	797.6	860.6	997.9
30°	1061.0	1046.1	1009.0	801.3	816.1	771.6	816.1	953.4	1027.6	1153.7	1194.5
32.5°	1546.9	1469.0	1224.2	1061.0	864.3	986.8	923.7	1120.3	1190.8	1253.9	1287.2
35°	1999.5	1966.1	1788.0	1402.2	1053.5	1090.6	1042.4	1253.9	1294.7	1428.2	1420.8
37.5°	2619.0	2563.4	2288.8	1810.3	1324.3	1309.5	1187.1	1428.2	1457.9	1650.8	1613.7
40°	3082.7	3038.2	2823.0	2248.0	1684.2	1554.3	1387.4	1669.3	1635.9	1895.6	1843.7
42.5°	3527.9	3501.9	3335.0	2748.8	2081.1	1932.7	1595.1	1966.1	1958.7	2185.0	2140.5
45°	3887.7	3858.0	3750.4	3197.7	2537.4	2541.1	1921.6	2292.6	2344.5	2559.6	2444.6
47.5°	4099.1	4036.1	3958.2	3553.8	2997.4	3123.5	2403.8	2663.5	2789.6	2975.1	2800.8
50°	4050.9	3987.9	3995.3	3780.1	3420.3	3624.3	2919.5	3056.7	3309.0	3453.7	3108.7
52.5°	3665.1	3628.0	3750.4	3739.3	3635.4	4084.3	3520.4	3483.3	3731.9	3828.3	3424.0
55°	3116.1	3064.2	3294.2	3457.4	3635.4	4369.9	4076.9	3958.2	4184.5	4169.6	3639.1
57.5°	2366.7	2385.3	2645.0	2900.9	3338.7	4425.6	4488.7	4473.8	4577.7	4451.6	3809.8
60°	1617.4	1628.5	1995.8	2285.1	2737.7	4132.5	4622.2	4900.4	4889.3	4689.0	4002.7
62.5°	1016.4	1012.7	1291.0	1747.2	1969.8	3364.6	4570.3	5223.2	5182.4	4867.0	4151.1
65°	586.1	601.0	701.1	1157.4	1368.9	2296.3	4269.8	5538.5	5423.5	5026.5	4310.6
67.5°	359.8	371.0	419.2	626.9	894.0	1268.7	3631.7	5616.4	5623.8	5156.4	4395.9
70°	304.2	307.9	330.2	385.8	623.2	712.2	2444.6	5252.8	5468.0	5186.1	4369.9
72.5°	256.0	259.7	293.1	337.6	463.7	504.5	1098.1	4340.3	4748.3	4959.8	4180.8
75°	189.2	192.9	241.1	307.9	337.6	404.3	601.0	2875.0	3260.8	3921.1	3565.0
77.5°	122.4	126.1	170.6	248.5	285.6	319.0	486.0	1342.9	1699.0	2266.6	2251.7
80°	81.6	81.6	100.2	174.4	226.3	259.7	422.9	664.0	756.8	934.8	875.5
82.5°	51.9	51.9	63.1	107.6	144.7	259.7	396.9	474.8	460.0	467.4	415.5
85°	22.3	22.3	33.4	59.4	77.9	170.6	356.1	408.1	389.5	389.5	371.0
87.5°	7.4	7.4	11.1	18.5	26.0	51.9	274.5	326.4	315.3	326.4	352.4
90°	7.4	7.4	3.7	7.4	7.4	37.1	222.6	322.7	315.3	330.2	363.5
92.5°	11.1	11.1	3.7	3.7	7.4	29.7	174.4	333.9	322.7	345.0	378.4
95°	18.5	18.5	7.4	3.7	11.1	26.0	107.6	296.8	322.7	341.3	385.8
97.5°	22.3	22.3	7.4	7.4	11.1	22.3	55.6	241.1	248.5	259.7	304.2
100°	29.7	29.7	7.4	7.4	7.4	18.5	29.7	126.1	129.8	92.7	148.4
102.5°	29.7	29.7	7.4	7.4	7.4	11.1	14.8	55.6	51.9	18.5	18.5
105°	33.4	33.4	11.1	7.4	7.4	7.4	7.4	18.5	18.5	11.1	22.3
107.5°	33.4	33.4	11.1	11.1	7.4	7.4	3.7	7.4	11.1	11.1	22.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	67.5°	75°	85°
112.5°	18.5	18.5	7.4	11.1	7.4	3.7	3.7	3.7	7.4	14.8	37.1
115°	7.4	7.4	3.7	7.4	3.7	3.7	3.7	7.4	7.4	11.1	29.7
117.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	7.4	3.7	11.1	26.0
120°	3.7	3.7	0.0	3.7	3.7	3.7	3.7	3.7	3.7	14.8	26.0
122.5°	3.7	3.7	3.7	3.7	3.7	0.0	3.7	3.7	3.7	14.8	26.0
125°	3.7	3.7	3.7	3.7	3.7	0.0	3.7	3.7	3.7	11.1	22.3
127.5°	3.7	3.7	3.7	3.7	3.7	0.0	3.7	3.7	3.7	7.4	22.3
130°	3.7	3.7	3.7	3.7	3.7	0.0	3.7	3.7	3.7	7.4	14.8
132.5°	3.7	3.7	3.7	3.7	3.7	0.0	3.7	3.7	3.7	7.4	11.1
135°	3.7	3.7	3.7	3.7	3.7	0.0	3.7	3.7	3.7	3.7	7.4
137.5°	3.7	3.7	3.7	3.7	3.7	0.0	3.7	3.7	3.7	3.7	3.7
140°	0.0	0.0	0.0	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
142.5°	0.0	0.0	0.0	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
145°	0.0	0.0	0.0	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
147.5°	0.0	0.0	0.0	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
150°	3.7	3.7	7.4	7.4	3.7	0.0	7.4	3.7	3.7	3.7	3.7
152.5°	7.4	7.4	7.4	7.4	3.7	0.0	3.7	7.4	3.7	3.7	3.7
155°	7.4	7.4	3.7	3.7	3.7	0.0	3.7	3.7	3.7	7.4	11.1
157.5°	0.0	0.0	0.0	0.0	3.7	0.0	3.7	3.7	0.0	0.0	3.7
160°	0.0	0.0	0.0	0.0	3.7	0.0	3.7	3.7	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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°	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1
2.5°	1061.0	1061.0	1057.2	1057.2	1046.1	1042.4	994.2	942.2	901.4	905.1	905.1
5°	1049.8	1042.4	1031.3	957.1	864.3	849.5	849.5	842.1	838.4	842.1	842.1
7.5°	916.3	908.9	864.3	827.2	831.0	823.5	808.7	805.0	741.9	678.9	675.2
10°	790.2	779.0	660.3	634.3	630.6	656.6	719.7	697.4	675.2	649.2	660.3
12.5°	660.3	656.6	549.0	608.4	530.5	545.3	560.2	537.9	460.0	371.0	382.1
15°	764.2	753.1	623.2	504.5	452.6	456.3	300.5	289.4	233.7	211.4	200.3
17.5°	567.6	623.2	545.3	504.5	456.3	237.4	192.9	148.4	133.5	107.6	111.3
20°	760.5	745.6	623.2	471.1	352.4	200.3	107.6	85.3	103.9	107.6	107.6
22.5°	537.9	523.1	526.8	500.8	248.5	115.0	81.6	85.3	77.9	74.2	74.2
25°	790.2	764.2	638.1	382.1	185.5	74.2	77.9	59.4	70.5	70.5	70.5
27.5°	960.8	871.8	671.4	371.0	103.9	74.2	55.6	59.4	48.2	48.2	48.2
30°	1150.0	1098.1	879.2	345.0	81.6	59.4	51.9	40.8	44.5	44.5	44.5
32.5°	1235.3	1164.8	879.2	274.5	70.5	55.6	40.8	37.1	37.1	40.8	40.8
35°	1357.7	1283.5	875.5	181.8	59.4	44.5	33.4	33.4	33.4	33.4	33.4
37.5°	1543.2	1435.6	890.3	115.0	48.2	37.1	26.0	29.7	29.7	63.1	63.1
40°	1750.9	1628.5	849.5	81.6	40.8	29.7	22.3	37.1	51.9	55.6	55.6
42.5°	2014.3	1880.8	790.2	70.5	37.1	22.3	18.5	29.7	44.5	70.5	70.5
45°	2329.6	2129.3	708.5	63.1	29.7	18.5	18.5	37.1	55.6	66.8	66.8
47.5°	2611.6	2370.5	567.6	59.4	26.0	14.8	26.0	40.8	48.2	77.9	77.9
50°	2941.7	2622.7	434.0	51.9	22.3	14.8	40.8	44.5	55.6	70.5	70.5
52.5°	3186.6	2834.2	330.2	48.2	22.3	11.1	40.8	40.8	63.1	81.6	81.6
55°	3383.2	2949.2	237.4	40.8	18.5	11.1	48.2	51.9	55.6	63.1	63.1
57.5°	3535.3	3030.8	185.5	37.1	18.5	26.0	59.4	66.8	59.4	63.1	63.1
60°	3709.6	3071.6	137.3	33.4	14.8	26.0	70.5	89.0	66.8	96.5	92.7
62.5°	3869.1	3101.3	111.3	33.4	14.8	29.7	77.9	111.3	89.0	129.8	133.5
65°	4069.5	3138.3	92.7	26.0	14.8	40.8	92.7	148.4	118.7	170.6	178.1
67.5°	4203.0	3160.6	77.9	26.0	14.8	48.2	129.8	192.9	148.4	215.2	222.6
70°	4217.9	3079.0	63.1	26.0	14.8	74.2	178.1	233.7	185.5	274.5	278.2
72.5°	4024.9	2845.3	51.9	29.7	14.8	81.6	207.7	270.8	218.9	363.5	367.3
75°	3253.3	1995.8	48.2	29.7	14.8	103.9	226.3	296.8	244.8	378.4	385.8
77.5°	1999.5	923.7	44.5	33.4	22.3	115.0	230.0	315.3	256.0	378.4	389.5
80°	775.3	456.3	40.8	37.1	51.9	129.8	248.5	319.0	256.0	352.4	367.3
82.5°	359.8	267.1	40.8	40.8	66.8	133.5	244.8	296.8	237.4	315.3	311.6
85°	322.7	263.4	44.5	44.5	70.5	115.0	192.9	252.3	204.0	248.5	248.5
87.5°	315.3	259.7	48.2	55.6	70.5	66.8	148.4	215.2	174.4	185.5	185.5
90°	322.7	270.8	51.9	63.1	59.4	37.1	118.7	178.1	133.5	118.7	115.0
92.5°	345.0	274.5	63.1	74.2	55.6	29.7	100.2	144.7	96.5	77.9	74.2
95°	363.5	281.9	77.9	89.0	59.4	26.0	89.0	115.0	70.5	48.2	44.5
97.5°	304.2	218.9	89.0	96.5	59.4	26.0	77.9	92.7	55.6	26.0	26.0
100°	129.8	96.5	92.7	103.9	55.6	22.3	66.8	74.2	37.1	11.1	14.8
102.5°	26.0	29.7	81.6	96.5	44.5	14.8	44.5	44.5	26.0	3.7	7.4
105°	26.0	22.3	51.9	81.6	26.0	7.4	18.5	26.0	11.1	3.7	3.7
107.5°	26.0	26.0	18.5	40.8	11.1	7.4	7.4	11.1	7.4	3.7	3.7



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CATALOG NUMBER: SDL-PA1-90-750-U-T2U-HSS-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	37.1	33.4	7.4	11.1	11.1	7.4	3.7	3.7	7.4	26.0	29.7
115°	33.4	29.7	11.1	11.1	7.4	7.4	3.7	3.7	7.4	29.7	33.4
117.5°	26.0	26.0	11.1	7.4	7.4	7.4	3.7	3.7	7.4	29.7	29.7
120°	29.7	26.0	11.1	7.4	3.7	3.7	3.7	3.7	7.4	22.3	22.3
122.5°	29.7	26.0	11.1	7.4	3.7	3.7	3.7	3.7	7.4	22.3	26.0
125°	26.0	22.3	11.1	7.4	3.7	3.7	3.7	3.7	11.1	22.3	22.3
127.5°	22.3	18.5	7.4	3.7	3.7	3.7	3.7	3.7	11.1	18.5	18.5
130°	14.8	14.8	7.4	3.7	3.7	3.7	3.7	3.7	11.1	14.8	14.8
132.5°	11.1	11.1	7.4	3.7	3.7	3.7	3.7	3.7	7.4	14.8	14.8
135°	11.1	7.4	7.4	3.7	3.7	3.7	3.7	3.7	7.4	11.1	11.1
137.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	7.4	7.4
140°	3.7	3.7	3.7	3.7	3.7	3.7	0.0	0.0	0.0	3.7	3.7
142.5°	3.7	3.7	3.7	3.7	3.7	3.7	0.0	0.0	0.0	3.7	3.7
145°	3.7	3.7	3.7	3.7	3.7	3.7	0.0	0.0	0.0	3.7	3.7
147.5°	3.7	3.7	3.7	3.7	3.7	3.7	0.0	0.0	0.0	3.7	3.7
150°	3.7	3.7	3.7	3.7	3.7	0.0	0.0	0.0	0.0	3.7	3.7
152.5°	3.7	3.7	7.4	3.7	3.7	0.0	0.0	0.0	0.0	3.7	3.7
155°	11.1	11.1	11.1	3.7	3.7	0.0	0.0	0.0	0.0	3.7	3.7
157.5°	3.7	3.7	3.7	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	3.7	3.7	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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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110°	26.0	26.0	11.1	11.1	7.4	3.7	3.7	3.7	7.4	11.1	26.0
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110°	29.7	26.0	7.4	11.1	7.4	7.4	7.4	7.4	3.7	18.5	22.3
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(END OF REPORT)