

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: P561217

Luminaire Tested: **SDL-PA1-90-727-U-T2R-HSS-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-17)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-90-727-U-T2R-HSS-A
Description: Springdale
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II R OPTICS,
HOUSE SIDE SHIELD AND CLEAR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6501.1 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Medium
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



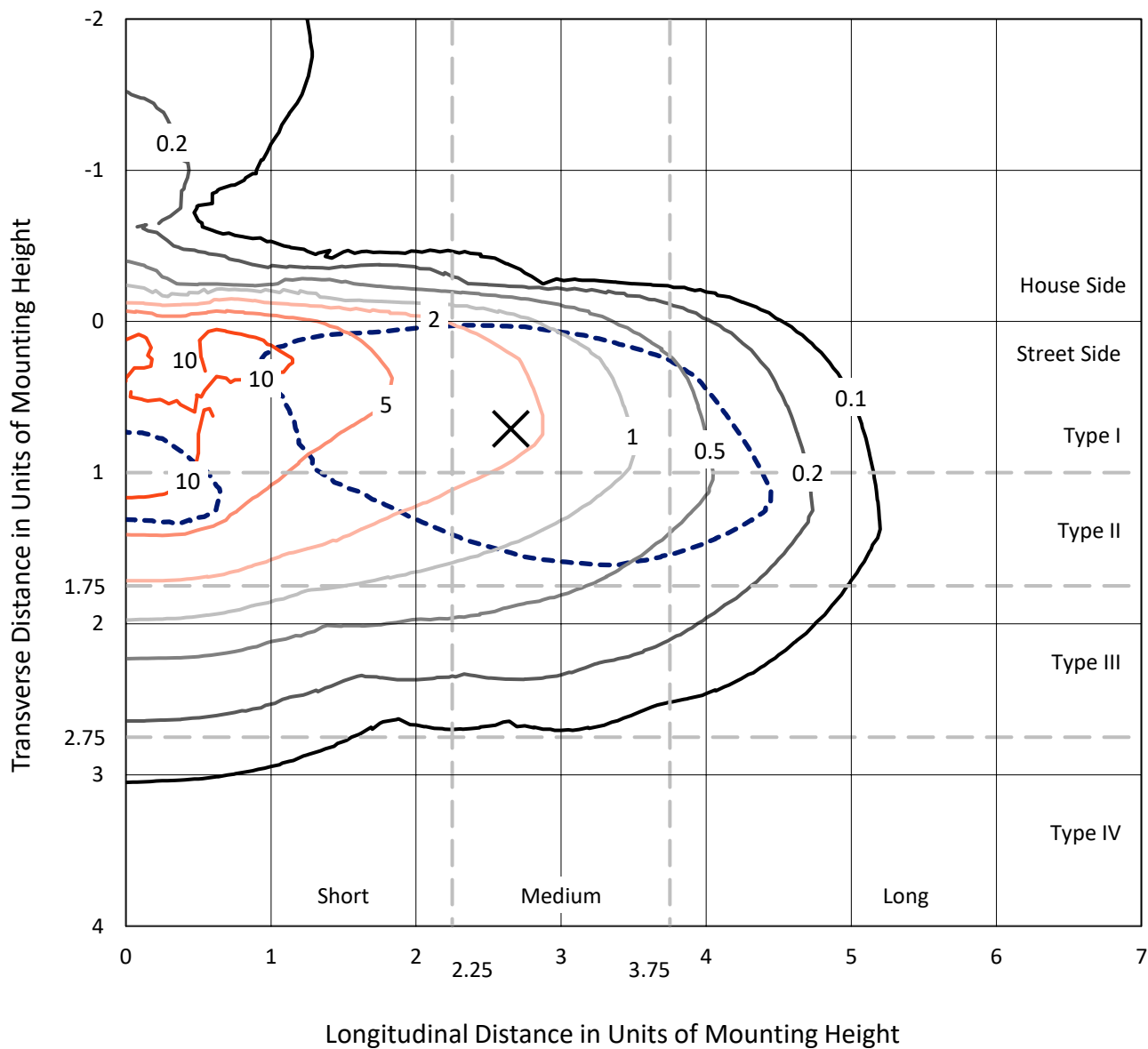
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



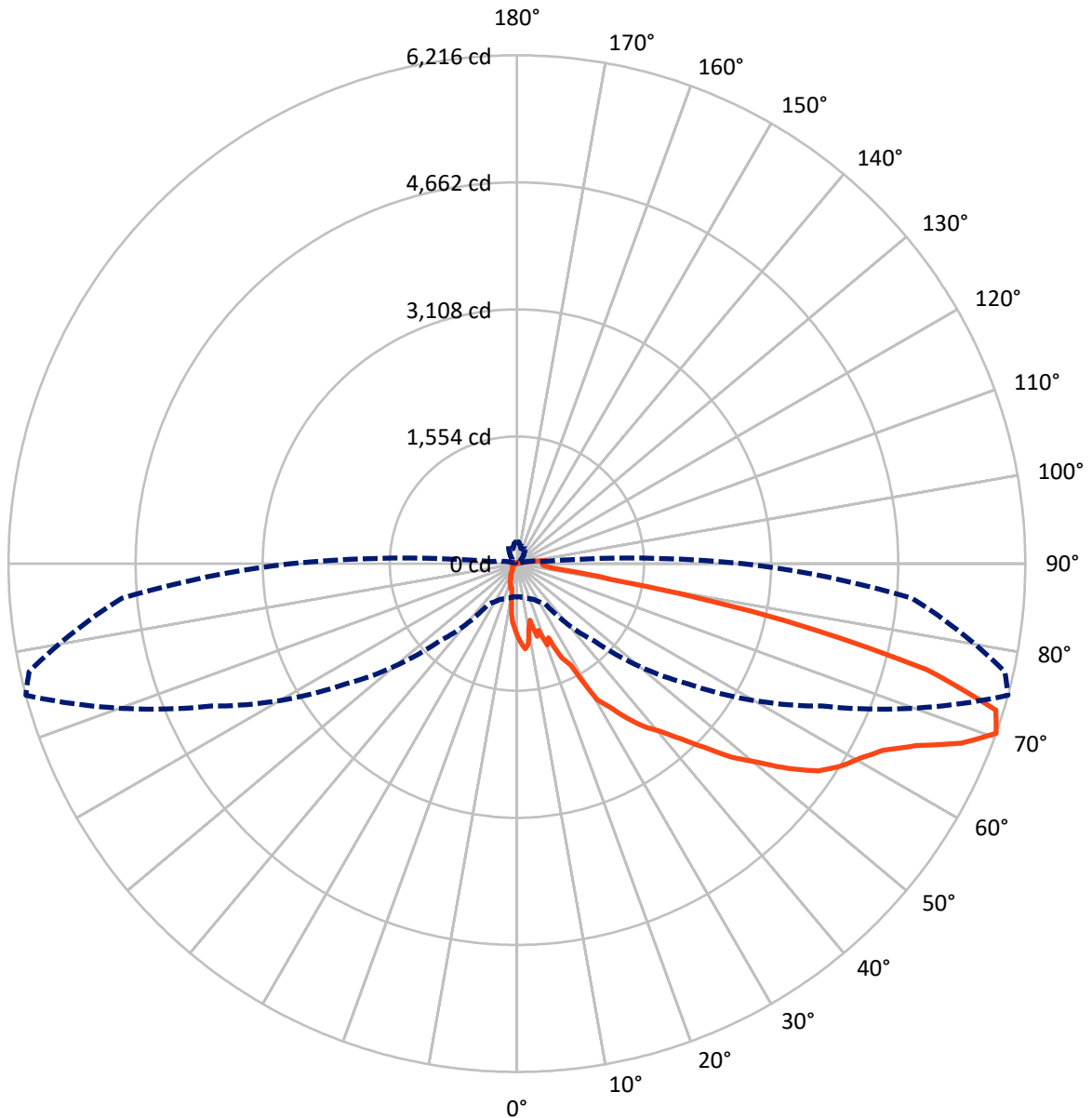
Based on 10 foot mounting height. Maximum calculated value = 16.2 fc

Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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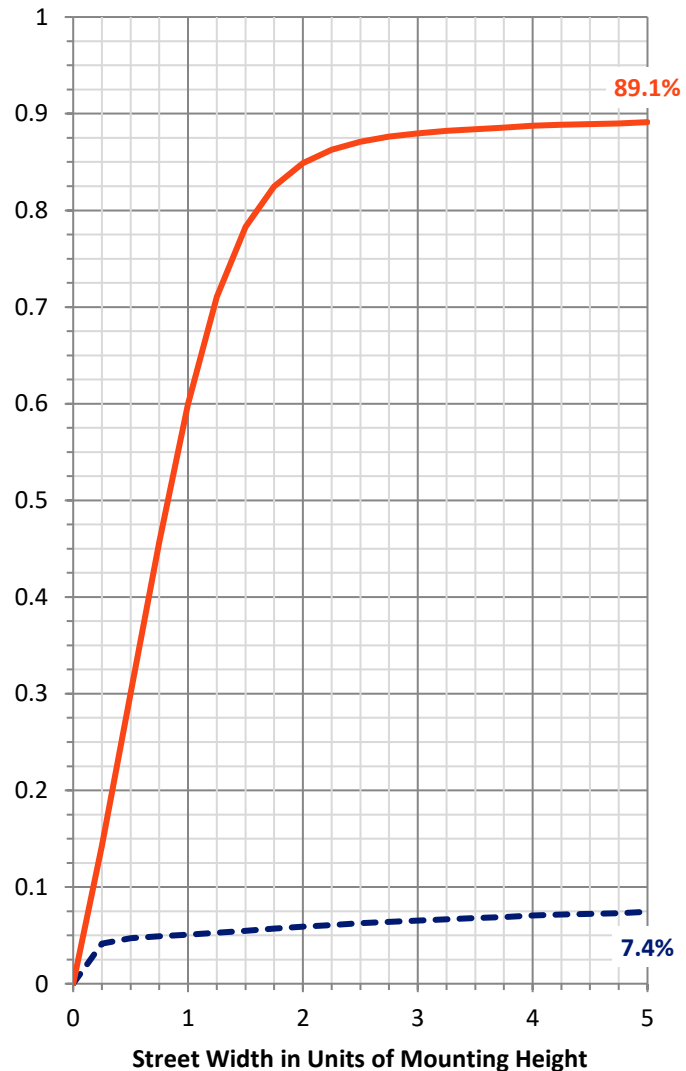
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	529.7	65.8	595.5
	% Fixture	8.1	1.0	9.2
Street Side	Lumens	5822.8	82.8	5905.6
	% Fixture	89.6	1.3	90.8
Total	Lumens	6352.5	148.6	6501.1
	% Fixture	97.7	2.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	1.1
10°-20°	171.5	2.6
20°-30°	321.7	4.9
30°-40°	722.0	11.1
40°-50°	1188.3	18.3
50°-60°	1456.6	22.4
60°-70°	1364.2	21.0
70°-80°	888.4	13.7
80°-90°	169.7	2.6
90°-100°	97.4	1.5
100°-110°	21.9	0.3
110°-120°	11.1	0.2
120°-130°	9.4	0.1
130°-140°	4.6	0.1
140°-150°	2.3	0.0
150°-160°	1.9	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	6352.5	97.7
0°-180°	6501.1	100.0



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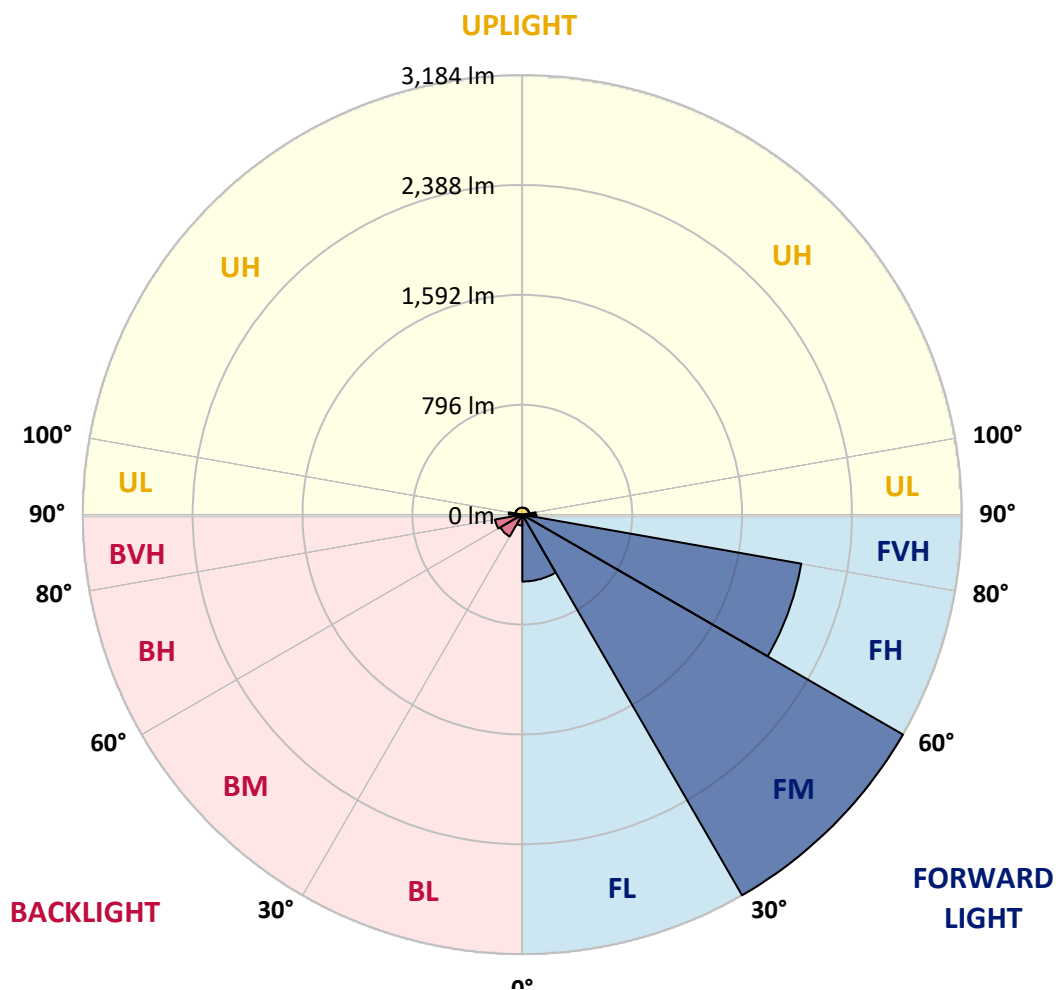
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	484.3	7.4			
FM	(30°-60°)	3183.8	49.0			
FH	(60°-80°)	2052.0	31.6			G2/5000
FVH	(80°-90°)	102.7	1.6			G2/225
BL	(0°-30°)	79.1	1.2	B0/110		
BM	(30°-60°)	183.1	2.8	B0/220		
BH	(60°-80°)	200.6	3.1	B1/500		G1/500
BVH	(80°-90°)	67.0	1.0			G1/100
UL	(90°-100°)	97.4	1.5		U3/500	
UH	(100°-180°)	51.2	0.8		U3/500	

BUG Rating: B1-U3-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	884.4	884.4	884.4	884.4	884.4	884.4	884.4	884.4	884.4	884.4	884.4
2.5°	986.9	1048.9	1067.5	1098.6	1114.1	1095.5	1061.3	1017.9	971.3	958.9	918.6
5°	1120.3	1107.9	1098.6	1098.6	1080.0	1039.6	1002.4	1117.2	1045.8	1030.3	949.6
7.5°	1017.9	1114.1	1185.5	1191.7	1182.4	1151.3	1098.6	980.6	996.2	977.5	878.2
10°	1232.0	1235.1	1222.7	1232.0	1145.1	1101.7	931.0	859.6	803.8	878.2	788.2
12.5°	1021.0	1173.1	1259.9	1291.0	1182.4	1039.6	952.7	915.5	710.7	692.0	713.8
15°	1247.5	1253.7	1263.1	1232.0	958.9	1089.3	884.4	816.2	921.7	896.9	881.3
17.5°	986.9	999.3	1210.3	1197.9	1111.0	862.7	1052.0	937.2	856.5	825.5	803.8
20°	1256.8	1259.9	1256.8	952.7	1036.5	1160.6	990.0	958.9	1061.3	1048.9	993.1
22.5°	1055.1	1055.1	1126.5	1222.7	1089.3	1163.7	1008.6	1194.8	986.9	980.6	738.6
25°	1458.6	1458.6	1408.9	1080.0	1235.1	1095.5	1197.9	1073.7	1275.5	1232.0	1107.9
27.5°	1418.2	1374.8	1297.2	1362.4	1194.8	1371.7	1160.6	1309.6	1405.8	1446.1	1381.0
30°	1970.6	1970.6	1886.8	1458.6	1399.6	1325.1	1340.6	1567.2	1927.2	1933.4	1669.6
32.5°	2668.9	2619.2	2175.4	1880.6	1529.9	1663.4	1514.4	1843.4	2094.7	2085.4	1775.1
35°	2954.4	2938.8	2802.3	2308.9	1772.0	1821.6	1706.8	1948.9	2321.3	2259.2	1902.3
37.5°	3246.1	3221.2	3081.6	2550.9	2026.5	2091.6	1849.6	2104.1	2529.2	2439.2	2042.0
40°	3426.1	3429.2	3329.9	2743.3	2228.2	2262.3	2020.3	2293.4	2696.8	2715.4	2163.0
42.5°	3615.4	3612.3	3531.6	2969.9	2395.8	2439.2	2156.8	2473.3	2923.3	2945.1	2367.8
45°	3717.8	3711.6	3665.0	3125.0	2529.2	2560.2	2367.8	2693.7	3199.5	3193.3	2535.4
47.5°	3742.6	3751.9	3748.8	3277.1	2668.9	2681.3	2557.1	2855.1	3534.7	3466.4	2755.7
50°	3603.0	3609.2	3652.6	3398.1	2771.3	2783.7	2706.1	3038.2	3817.1	3736.4	2954.4
52.5°	3215.0	3252.3	3435.4	3323.7	2814.7	2861.3	2845.7	3177.8	4161.6	4062.2	3199.5
55°	2389.6	2476.5	2895.4	3044.4	2793.0	2864.4	2969.9	3432.3	4475.0	4354.0	3398.1
57.5°	1905.4	1921.0	2169.2	2578.9	2616.1	2848.8	3100.2	3587.4	4670.5	4549.5	3540.9
60°	1505.1	1529.9	1691.3	2020.3	2284.0	2755.7	3137.5	3745.7	4825.7	4723.3	3699.2
62.5°	1166.8	1163.7	1287.9	1508.2	1840.3	2560.2	3087.8	3841.9	5024.3	4946.7	3981.6
65°	813.1	813.1	918.6	1095.5	1393.4	2209.6	2988.5	3978.5	5362.5	5340.8	4332.2
67.5°	555.5	567.9	639.3	726.2	955.8	1796.8	2839.5	4118.1	5856.0	5753.6	4670.5
70°	406.5	406.5	434.5	481.0	595.8	1340.6	2572.7	4121.2	6216.0	6110.4	4847.4
72.5°	301.0	301.0	322.7	344.5	375.5	890.7	2110.3	3860.5	6122.9	5955.3	4487.4
75°	158.3	158.3	245.2	254.5	251.4	577.2	1557.9	3171.6	5176.3	4897.0	3513.0
77.5°	124.1	127.2	139.6	198.6	183.1	378.6	868.9	1952.0	3345.4	3004.0	1902.3
80°	90.0	86.9	108.6	127.2	108.6	220.3	409.6	856.5	1185.5	1027.2	626.9
82.5°	52.8	55.9	65.2	93.1	93.1	155.2	266.9	375.5	425.2	422.1	375.5
85°	6.2	9.3	34.1	62.1	55.9	90.0	223.4	260.7	335.2	341.4	335.2
87.5°	6.2	6.2	9.3	12.4	15.5	59.0	189.3	226.5	310.3	332.1	335.2
90°	12.4	9.3	6.2	6.2	9.3	46.5	176.9	232.7	329.0	335.2	350.7
92.5°	15.5	12.4	6.2	3.1	9.3	37.2	167.6	232.7	341.4	363.1	378.6
95°	21.7	18.6	6.2	3.1	9.3	31.0	142.8	220.3	356.9	394.1	409.6
97.5°	27.9	24.8	6.2	6.2	9.3	24.8	111.7	173.8	235.9	266.9	288.6
100°	31.0	31.0	6.2	6.2	9.3	15.5	55.9	96.2	74.5	71.4	80.7
102.5°	34.1	34.1	6.2	6.2	6.2	9.3	18.6	40.3	15.5	15.5	24.8
105°	34.1	34.1	6.2	6.2	6.2	6.2	6.2	15.5	12.4	15.5	27.9
107.5°	31.0	34.1	6.2	9.3	9.3	6.2	6.2	6.2	12.4	18.6	27.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
112.5°	21.7	15.5	3.1	9.3	6.2	6.2	3.1	6.2	15.5	21.7	31.0
115°	9.3	6.2	3.1	6.2	6.2	6.2	3.1	6.2	15.5	24.8	31.0
117.5°	6.2	3.1	3.1	3.1	3.1	6.2	3.1	9.3	21.7	27.9	37.2
120°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	9.3	27.9	31.0	43.4
122.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	6.2	27.9	31.0	43.4
125°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	6.2	21.7	27.9	37.2
127.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	6.2	15.5	21.7	31.0
130°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	15.5	18.6	24.8
132.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	9.3	12.4	18.6
135°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	6.2	6.2	12.4
137.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
140°	3.1	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
142.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
145°	3.1	3.1	3.1	3.1	6.2	3.1	3.1	3.1	3.1	3.1	3.1
147.5°	3.1	3.1	3.1	6.2	6.2	6.2	3.1	3.1	3.1	3.1	3.1
150°	6.2	9.3	15.5	12.4	6.2	3.1	6.2	3.1	3.1	3.1	3.1
152.5°	15.5	15.5	12.4	12.4	3.1	3.1	6.2	6.2	3.1	3.1	3.1
155°	12.4	12.4	9.3	3.1	3.1	3.1	3.1	6.2	9.3	12.4	9.3
157.5°	0.0	0.0	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1
160°	0.0	0.0	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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°	884.4	884.4	884.4	884.4	884.4	884.4	884.4	884.4	884.4	884.4	884.4
2.5°	887.6	856.5	788.2	735.5	679.6	648.6	589.6	540.0	502.7	496.5	496.5
5°	887.6	825.5	704.5	574.1	453.1	391.0	356.9	335.2	319.6	313.4	310.3
7.5°	794.5	713.8	552.4	400.3	347.6	291.7	251.4	220.3	192.4	183.1	173.8
10°	695.1	595.8	375.5	276.2	220.3	183.1	164.5	155.2	145.9	142.8	142.8
12.5°	617.6	515.2	301.0	226.5	155.2	130.3	124.1	117.9	114.8	111.7	108.6
15°	754.1	617.6	313.4	155.2	108.6	93.1	86.9	90.0	96.2	96.2	96.2
17.5°	698.2	543.1	260.7	117.9	90.0	68.3	74.5	80.7	86.9	77.6	74.5
20°	834.8	639.3	254.5	93.1	74.5	68.3	65.2	55.9	71.4	71.4	71.4
22.5°	605.1	484.1	192.4	86.9	62.1	59.0	49.7	55.9	59.0	49.7	49.7
25°	896.9	630.0	189.3	68.3	62.1	46.5	49.7	40.3	49.7	49.7	49.7
27.5°	1111.0	744.8	167.6	71.4	52.8	46.5	37.2	40.3	37.2	37.2	37.2
30°	1322.0	837.9	152.1	71.4	49.7	37.2	34.1	31.0	37.2	37.2	37.2
32.5°	1384.1	816.2	121.0	74.5	46.5	34.1	27.9	31.0	31.0	34.1	34.1
35°	1455.5	797.6	102.4	65.2	43.4	31.0	24.8	27.9	31.0	34.1	34.1
37.5°	1523.7	766.5	93.1	59.0	37.2	27.9	21.7	24.8	65.2	71.4	71.4
40°	1610.6	729.3	86.9	52.8	31.0	21.7	18.6	49.7	59.0	68.3	68.3
42.5°	1734.8	707.6	80.7	49.7	27.9	18.6	18.6	43.4	83.8	93.1	93.1
45°	1837.2	670.3	77.6	43.4	24.8	15.5	31.0	59.0	68.3	86.9	83.8
47.5°	1964.4	636.2	74.5	40.3	21.7	15.5	34.1	62.1	86.9	99.3	99.3
50°	2100.9	617.6	71.4	37.2	21.7	15.5	59.0	59.0	71.4	111.7	111.7
52.5°	2274.7	605.1	65.2	31.0	18.6	31.0	80.7	71.4	86.9	114.8	114.8
55°	2358.5	564.8	62.1	27.9	15.5	31.0	86.9	80.7	90.0	121.0	121.0
57.5°	2433.0	524.5	55.9	27.9	15.5	40.3	93.1	102.4	86.9	105.5	117.9
60°	2501.3	484.1	49.7	24.8	15.5	49.7	102.4	142.8	121.0	142.8	142.8
62.5°	2659.5	453.1	43.4	27.9	12.4	55.9	133.4	173.8	136.5	173.8	170.7
65°	2808.5	415.8	40.3	24.8	15.5	65.2	145.9	201.7	149.0	201.7	201.7
67.5°	2867.5	369.3	37.2	24.8	15.5	74.5	145.9	223.4	176.9	226.5	229.6
70°	2765.1	304.1	34.1	27.9	18.6	83.8	152.1	239.0	189.3	263.8	263.8
72.5°	2349.2	207.9	34.1	31.0	37.2	93.1	180.0	248.3	198.6	316.5	319.6
75°	1753.4	117.9	37.2	34.1	40.3	105.5	198.6	257.6	207.9	319.6	319.6
77.5°	999.3	80.7	37.2	40.3	49.7	105.5	207.9	266.9	204.8	313.4	307.2
80°	347.6	59.0	37.2	46.5	62.1	105.5	211.0	263.8	198.6	291.7	291.7
82.5°	235.9	49.7	37.2	46.5	74.5	111.7	207.9	248.3	176.9	245.2	235.9
85°	220.3	40.3	40.3	49.7	80.7	111.7	189.3	214.1	149.0	183.1	180.0
87.5°	217.2	37.2	46.5	52.8	86.9	102.4	161.4	176.9	121.0	149.0	145.9
90°	226.5	37.2	49.7	55.9	80.7	83.8	130.3	149.0	99.3	117.9	114.8
92.5°	242.1	37.2	52.8	62.1	71.4	62.1	105.5	117.9	83.8	90.0	86.9
95°	257.6	37.2	59.0	65.2	59.0	46.5	80.7	96.2	68.3	65.2	65.2
97.5°	170.7	27.9	62.1	65.2	49.7	34.1	62.1	74.5	40.3	34.1	34.1
100°	55.9	21.7	65.2	68.3	46.5	24.8	52.8	55.9	31.0	15.5	15.5
102.5°	24.8	21.7	59.0	59.0	40.3	18.6	37.2	40.3	21.7	6.2	6.2
105°	21.7	12.4	34.1	43.4	27.9	9.3	18.6	21.7	12.4	6.2	6.2
107.5°	24.8	12.4	18.6	24.8	12.4	9.3	9.3	9.3	6.2	6.2	6.2



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CATALOG NUMBER: SDL-PA1-90-727-U-T2R-HSS-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	27.9	12.4	9.3	12.4	9.3	9.3	6.2	6.2	12.4	21.7	21.7
115°	27.9	12.4	9.3	12.4	9.3	9.3	6.2	3.1	12.4	31.0	34.1
117.5°	31.0	15.5	6.2	9.3	6.2	6.2	6.2	3.1	15.5	40.3	40.3
120°	37.2	15.5	6.2	6.2	6.2	3.1	6.2	6.2	15.5	43.4	43.4
122.5°	37.2	18.6	6.2	6.2	6.2	3.1	3.1	6.2	18.6	40.3	43.4
125°	31.0	15.5	6.2	6.2	6.2	3.1	3.1	6.2	18.6	37.2	43.4
127.5°	24.8	15.5	6.2	6.2	6.2	3.1	3.1	6.2	18.6	31.0	34.1
130°	21.7	12.4	6.2	6.2	6.2	3.1	3.1	6.2	15.5	24.8	27.9
132.5°	15.5	9.3	6.2	6.2	6.2	3.1	3.1	3.1	15.5	24.8	24.8
135°	12.4	9.3	6.2	6.2	6.2	3.1	3.1	3.1	12.4	18.6	18.6
137.5°	6.2	3.1	6.2	6.2	6.2	3.1	3.1	3.1	9.3	9.3	9.3
140°	3.1	3.1	3.1	6.2	3.1	3.1	3.1	3.1	3.1	6.2	3.1
142.5°	3.1	3.1	3.1	6.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1
145°	3.1	3.1	3.1	6.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1
147.5°	3.1	3.1	3.1	6.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1
150°	3.1	3.1	3.1	6.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1
152.5°	3.1	3.1	3.1	3.1	3.1	3.1	0.0	3.1	3.1	3.1	3.1
155°	6.2	6.2	3.1	6.2	3.1	3.1	0.0	3.1	3.1	3.1	3.1
157.5°	3.1	3.1	3.1	3.1	3.1	3.1	0.0	3.1	3.1	3.1	3.1
160°	3.1	3.1	3.1	3.1	3.1	3.1	0.0	3.1	3.1	3.1	3.1
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°	27.9	27.9	6.2	9.3	9.3	6.2	3.1	6.2	12.4	18.6	31.0
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110°	24.8	12.4	9.3	15.5	12.4	9.3	6.2	6.2	6.2	9.3	9.3
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(END OF REPORT)