

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: P561216

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

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-19)
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-A
Description: Springdale
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II R OPTICS
AND CLEAR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7010.1 lumens
Efficiency: N/A
Efficacy: 75.9 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



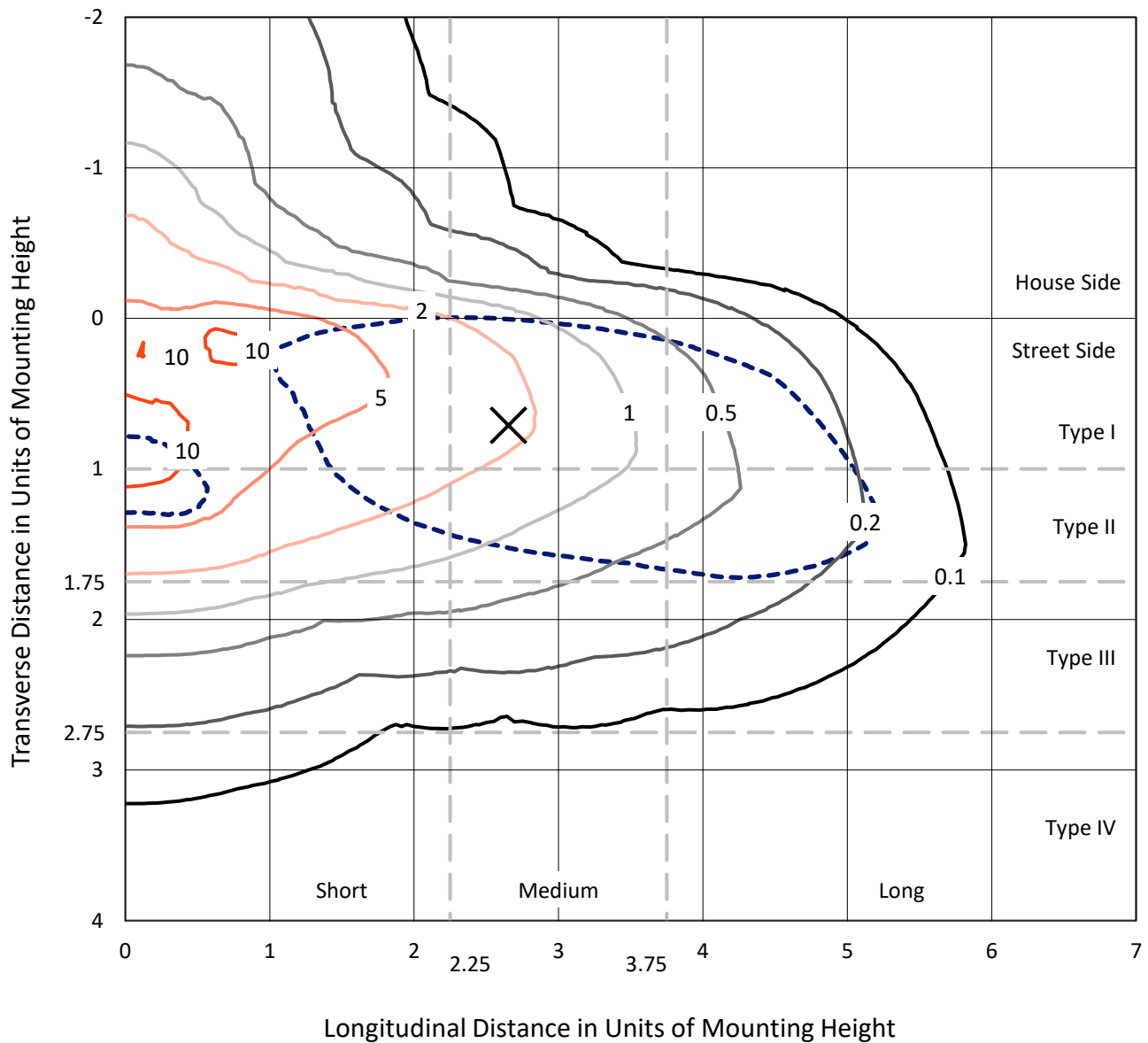
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

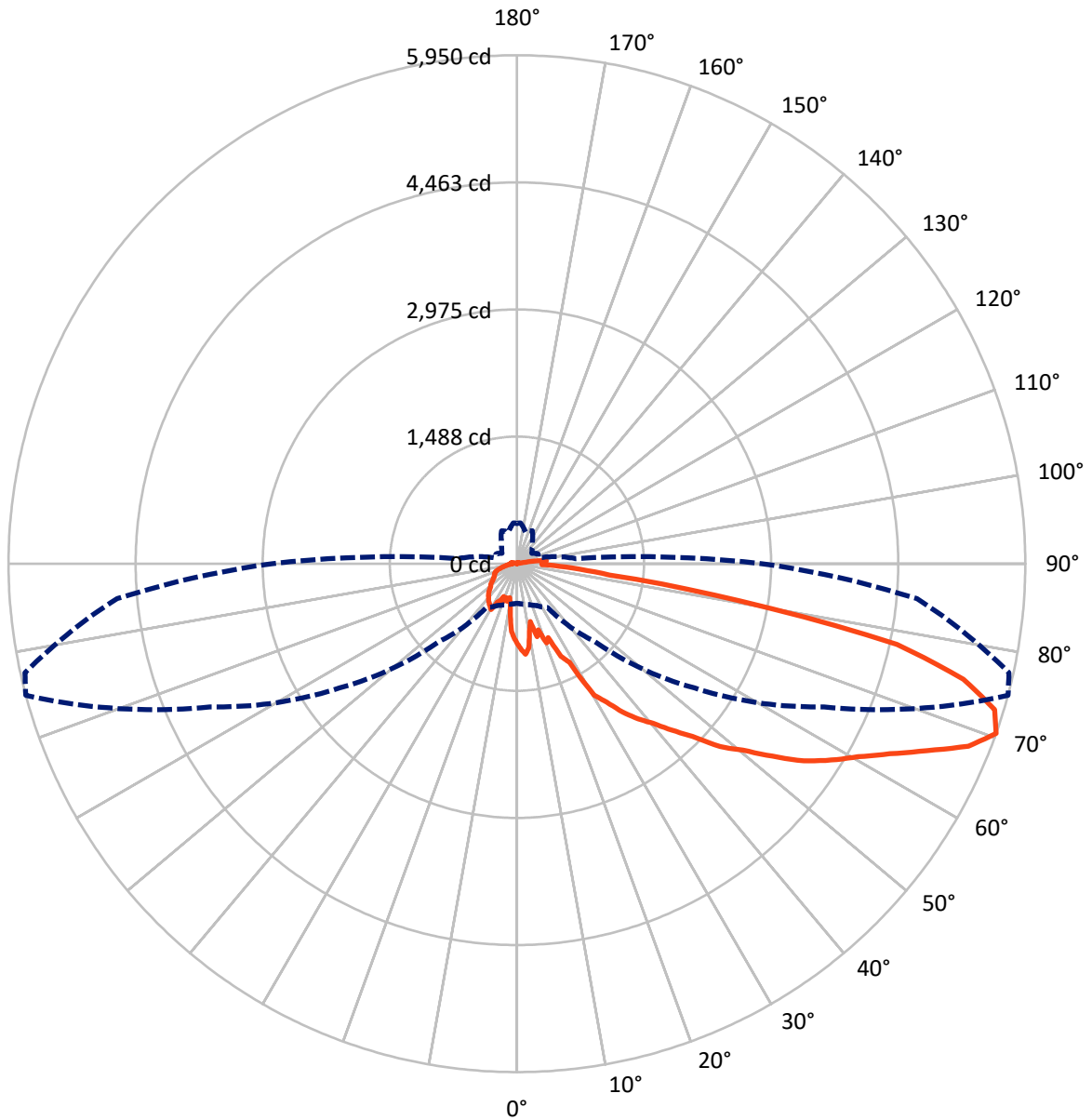


Based on 10 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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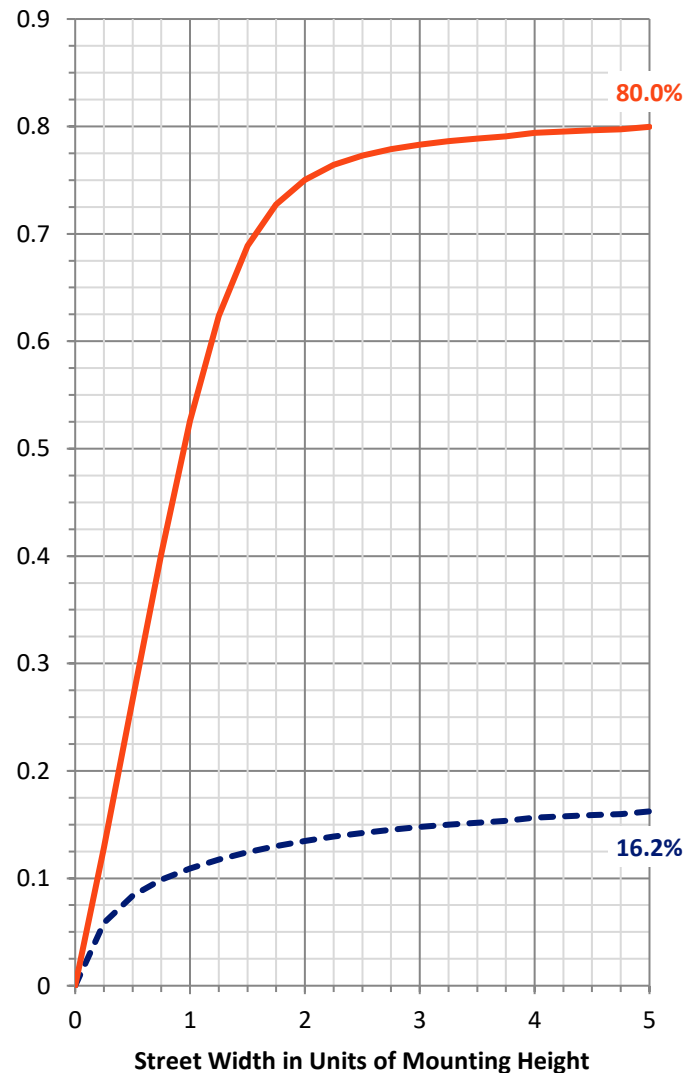
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1198.4	71.6	1270.0
	% Fixture	17.1	1.0	18.1
Street Side	Lumens	5649.4	90.7	5740.1
	% Fixture	80.6	1.3	81.9
Total	Lumens	6847.8	162.3	7010.1
	% Fixture	97.7	2.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	1.1
10°-20°	204.5	2.9
20°-30°	369.1	5.3
30°-40°	754.3	10.8
40°-50°	1184.5	16.9
50°-60°	1454.6	20.7
60°-70°	1446.6	20.6
70°-80°	1070.0	15.3
80°-90°	285.9	4.1
90°-100°	105.7	1.5
100°-110°	24.7	0.4
110°-120°	11.7	0.2
120°-130°	10.4	0.1
130°-140°	5.0	0.1
140°-150°	2.5	0.0
150°-160°	2.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	6847.8	97.7
0°-180°	7010.1	100.0



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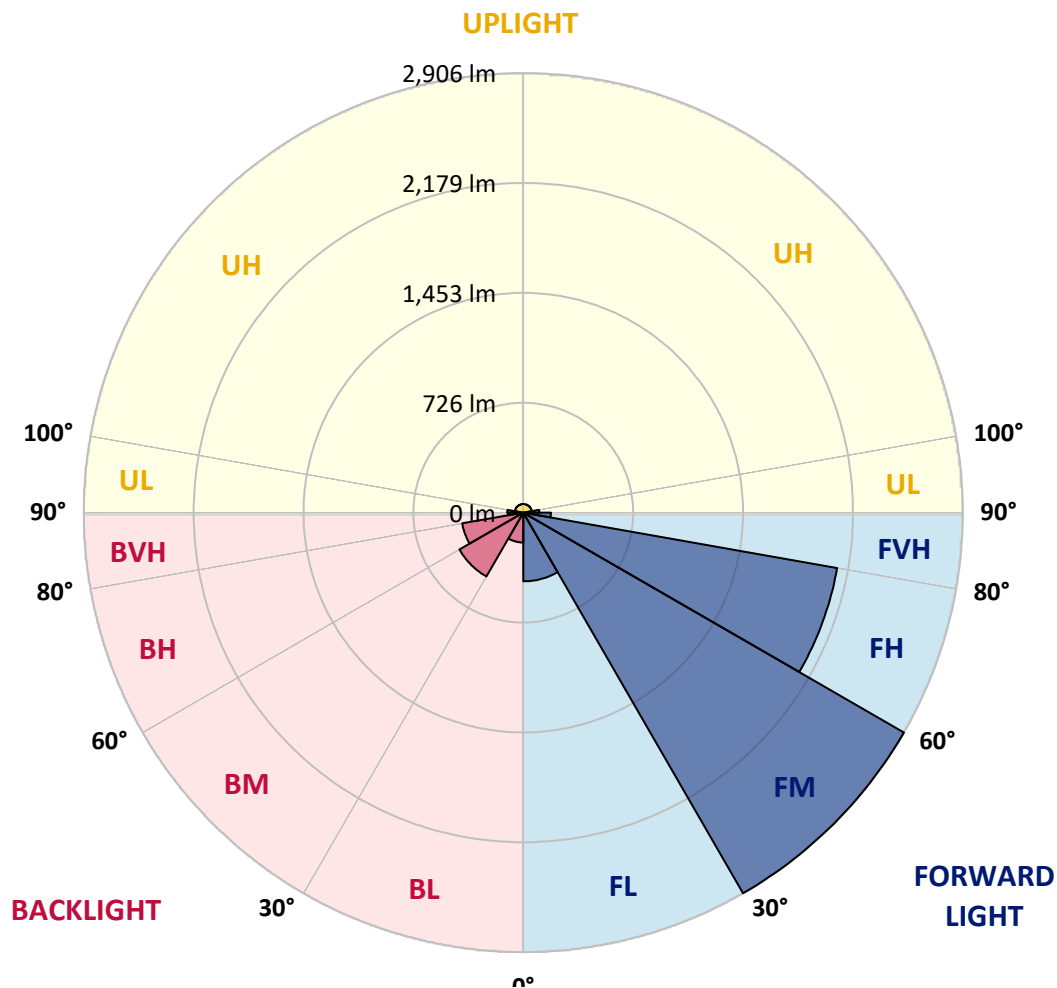
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	454.3	6.5			
FM	(30°-60°)	2905.8	41.5			
FH	(60°-80°)	2106.7	30.1			G2/5000
FVH	(80°-90°)	182.5	2.6			G2/225
BL	(0°-30°)	197.5	2.8	B1/500		
BM	(30°-60°)	487.6	7.0	B1/1000		
BH	(60°-80°)	409.9	5.8	B1/500		G1/500
BVH	(80°-90°)	103.4	1.5			G2/225
UL	(90°-100°)	105.7	1.5		U3/500	
UH	(100°-180°)	56.6	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°	939.6	939.6	939.6	939.6	939.6	939.6	939.6	939.6	939.6	939.6	939.6
2.5°	975.2	1030.0	1054.7	1082.1	1106.7	1093.0	1071.1	1038.2	1008.1	997.2	964.3
5°	1076.6	1071.1	1068.4	1060.2	1046.5	1021.8	991.7	1109.5	1062.9	1043.7	988.9
7.5°	947.8	1098.5	1115.0	1131.4	1125.9	1095.8	1057.4	950.6	991.7	967.0	898.5
10°	1158.8	1158.8	1153.3	1158.8	1095.8	1046.5	895.8	832.8	802.7	868.4	805.4
12.5°	986.2	1073.9	1183.4	1205.4	1109.5	972.5	909.5	879.4	693.1	684.9	734.2
15°	1147.8	1161.5	1164.3	1169.7	945.1	1019.1	841.0	780.7	884.8	860.2	868.4
17.5°	923.2	936.9	1115.0	1104.0	1016.3	813.6	983.5	882.1	813.6	783.5	772.5
20°	1161.5	1164.3	1156.0	934.1	980.7	1062.9	920.5	893.1	991.7	988.9	947.8
22.5°	988.9	991.7	1021.8	1125.9	1013.6	1073.9	925.9	1115.0	939.6	942.4	731.4
25°	1323.1	1325.9	1298.5	1002.6	1139.6	1008.1	1123.2	1002.6	1199.9	1161.5	1071.1
27.5°	1388.9	1287.5	1183.4	1243.7	1087.6	1251.9	1068.4	1213.6	1304.0	1295.8	1309.5
30°	1761.5	1766.9	1695.7	1361.5	1273.8	1235.5	1232.7	1440.9	1786.1	1799.8	1572.4
32.5°	2386.0	2353.2	2002.5	1679.3	1372.5	1506.7	1383.4	1668.3	1931.3	1923.1	1684.8
35°	2670.9	2638.1	2506.6	2073.8	1586.1	1627.2	1561.5	1775.2	2131.3	2068.3	1797.1
37.5°	2912.0	2906.5	2797.0	2284.7	1802.5	1862.8	1668.3	1906.6	2303.9	2238.1	1912.1
40°	3120.2	3101.0	3005.2	2473.7	2024.4	2027.2	1802.5	2065.5	2457.3	2473.7	2024.4
42.5°	3292.8	3276.4	3196.9	2662.7	2155.9	2172.4	1945.0	2227.2	2662.7	2692.9	2199.8
45°	3364.0	3372.2	3317.5	2832.6	2273.7	2303.9	2114.8	2391.5	2881.9	2906.5	2355.9
47.5°	3416.1	3418.8	3405.1	2972.3	2399.7	2413.4	2281.9	2539.5	3199.7	3150.4	2539.5
50°	3298.3	3287.3	3301.0	3079.1	2509.3	2525.8	2421.7	2692.9	3427.0	3364.0	2731.2
52.5°	2988.7	3002.4	3144.9	3024.3	2544.9	2577.8	2553.2	2827.1	3742.1	3692.8	3005.2
55°	2210.7	2271.0	2681.9	2799.7	2542.2	2599.7	2673.7	3081.9	4073.5	3999.6	3238.0
57.5°	1788.9	1788.9	2029.9	2416.2	2402.5	2586.0	2797.0	3254.4	4336.5	4284.5	3470.9
60°	1435.5	1435.5	1567.0	1917.6	2131.3	2517.5	2923.0	3509.2	4585.8	4555.7	3676.3
62.5°	1125.9	1123.2	1232.7	1430.0	1747.8	2366.9	2988.7	3728.4	4898.1	4892.6	4005.1
65°	813.6	824.6	917.7	1041.0	1372.5	2084.7	2986.0	3925.6	5273.4	5289.8	4374.9
67.5°	602.7	608.2	660.2	750.6	942.4	1728.6	2854.5	4062.6	5698.0	5670.6	4610.5
70°	463.0	471.2	493.1	539.7	627.3	1284.8	2536.7	3966.7	5950.1	5898.0	4698.1
72.5°	389.0	391.7	389.0	413.7	419.1	871.1	2032.7	3602.4	5846.0	5763.8	4457.1
75°	331.5	328.7	326.0	331.5	309.6	575.3	1457.4	3049.0	5396.7	5254.2	3936.6
77.5°	284.9	282.2	271.2	273.9	246.5	424.6	994.4	2391.5	4547.5	4213.3	2958.6
80°	235.6	235.6	227.4	227.4	208.2	323.3	635.5	1649.1	2649.0	2383.3	1539.6
82.5°	183.5	180.8	180.8	186.3	178.1	252.0	416.4	821.8	1093.0	1024.5	720.5
85°	98.6	98.6	112.3	126.0	123.3	153.4	317.8	484.9	646.5	624.6	402.7
87.5°	30.1	30.1	32.9	41.1	43.8	82.2	200.0	235.6	293.1	323.3	317.8
90°	32.9	30.1	21.9	24.7	27.4	60.3	186.3	227.4	295.9	328.7	337.0
92.5°	38.4	35.6	21.9	21.9	27.4	49.3	178.1	221.9	323.3	356.1	364.3
95°	41.1	38.4	21.9	21.9	27.4	43.8	158.9	219.2	345.2	389.0	389.0
97.5°	38.4	35.6	16.4	19.2	24.7	38.4	123.3	180.8	241.1	265.7	306.8
100°	32.9	32.9	11.0	16.4	21.9	27.4	71.2	98.6	71.2	68.5	68.5
102.5°	30.1	30.1	11.0	13.7	16.4	19.2	32.9	52.0	16.4	19.2	24.7
105°	30.1	32.9	8.2	11.0	11.0	11.0	16.4	27.4	13.7	16.4	24.7
107.5°	30.1	32.9	8.2	8.2	11.0	8.2	8.2	11.0	13.7	16.4	27.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
112.5°	19.2	19.2	5.5	8.2	8.2	8.2	5.5	8.2	13.7	19.2	27.4
115°	13.7	11.0	5.5	8.2	5.5	8.2	5.5	8.2	13.7	19.2	24.7
117.5°	11.0	8.2	5.5	5.5	5.5	5.5	2.7	8.2	16.4	21.9	30.1
120°	11.0	11.0	5.5	5.5	5.5	5.5	2.7	8.2	24.7	27.4	38.4
122.5°	11.0	11.0	5.5	5.5	5.5	5.5	2.7	5.5	21.9	30.1	41.1
125°	11.0	11.0	5.5	5.5	5.5	5.5	2.7	5.5	19.2	27.4	35.6
127.5°	11.0	11.0	5.5	2.7	5.5	5.5	5.5	5.5	16.4	21.9	30.1
130°	11.0	11.0	5.5	2.7	5.5	5.5	5.5	5.5	13.7	16.4	24.7
132.5°	8.2	8.2	5.5	2.7	5.5	2.7	2.7	5.5	11.0	13.7	19.2
135°	5.5	5.5	5.5	2.7	5.5	2.7	2.7	2.7	5.5	8.2	13.7
137.5°	2.7	5.5	2.7	2.7	5.5	2.7	2.7	2.7	2.7	2.7	5.5
140°	2.7	2.7	2.7	2.7	5.5	2.7	2.7	2.7	2.7	2.7	2.7
142.5°	2.7	2.7	2.7	2.7	5.5	5.5	2.7	2.7	2.7	2.7	2.7
145°	2.7	2.7	2.7	2.7	8.2	5.5	2.7	2.7	2.7	2.7	2.7
147.5°	2.7	2.7	2.7	11.0	8.2	5.5	2.7	2.7	2.7	2.7	2.7
150°	13.7	13.7	13.7	11.0	8.2	5.5	8.2	2.7	2.7	2.7	2.7
152.5°	13.7	13.7	16.4	8.2	5.5	2.7	2.7	11.0	8.2	5.5	5.5
155°	11.0	8.2	8.2	2.7	2.7	2.7	2.7	2.7	8.2	11.0	11.0
157.5°	2.7	2.7	5.5	2.7	2.7	2.7	2.7	2.7	5.5	2.7	2.7
160°	0.0	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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°	939.6	939.6	939.6	939.6	939.6	939.6	939.6	939.6	939.6	939.6	939.6
2.5°	945.1	923.2	871.1	832.8	786.2	745.1	709.5	630.1	616.4	608.2	605.4
5°	945.1	898.5	797.2	673.9	578.0	556.1	545.1	545.1	539.7	542.4	545.1
7.5°	838.3	775.3	621.9	526.0	542.4	542.4	545.1	531.5	487.6	493.1	484.9
10°	734.2	654.7	468.4	427.4	468.4	471.2	534.2	558.8	567.1	569.8	569.8
12.5°	676.6	564.3	405.4	419.1	378.0	432.8	509.5	569.8	517.8	490.4	490.4
15°	778.0	668.4	454.7	367.1	372.6	432.8	386.3	539.7	558.8	564.3	564.3
17.5°	698.6	589.0	416.4	378.0	416.4	356.1	435.6	495.8	473.9	449.3	446.5
20°	838.3	695.8	465.7	369.8	367.1	421.9	386.3	405.4	506.8	509.5	506.8
22.5°	652.0	556.1	413.7	419.1	367.1	402.7	380.8	419.1	400.0	397.2	400.0
25°	904.0	720.5	476.7	361.6	383.5	356.1	383.5	353.4	424.6	430.1	432.8
27.5°	1106.7	860.2	506.8	391.7	334.2	364.3	342.4	353.4	328.7	342.4	347.9
30°	1317.7	1002.6	619.1	432.8	353.4	312.3	317.8	315.0	356.1	353.4	347.9
32.5°	1386.2	1021.8	591.7	452.0	350.6	315.0	290.4	309.6	339.7	364.3	367.1
35°	1454.6	1035.5	569.8	432.8	342.4	295.9	284.9	317.8	342.4	345.2	353.4
37.5°	1534.1	1046.5	547.9	405.4	317.8	290.4	282.2	295.9	350.6	345.2	337.0
40°	1608.0	1051.9	520.5	380.8	290.4	284.9	263.0	295.9	309.6	320.5	326.0
42.5°	1739.5	1084.8	498.6	358.9	271.2	271.2	252.0	276.7	317.8	323.3	320.5
45°	1835.4	1073.9	468.4	339.7	252.0	241.1	246.5	301.3	320.5	353.4	347.9
47.5°	1972.4	1101.3	432.8	309.6	235.6	221.9	232.9	293.1	328.7	353.4	358.9
50°	2106.6	1095.8	402.7	284.9	224.6	210.9	257.5	284.9	323.3	364.3	364.3
52.5°	2281.9	1104.0	389.0	263.0	210.9	210.9	265.7	287.6	331.5	358.9	358.9
55°	2438.1	1073.9	356.1	254.8	208.2	202.7	268.5	298.6	334.2	358.9	361.6
57.5°	2553.2	1013.6	331.5	246.5	205.5	208.2	268.5	323.3	312.3	358.9	367.1
60°	2679.2	947.8	309.6	246.5	205.5	216.4	276.7	342.4	342.4	375.3	375.3
62.5°	2851.8	906.8	298.6	249.3	200.0	224.6	301.3	372.6	345.2	397.2	400.0
65°	2996.9	852.0	290.4	260.2	202.7	235.6	315.0	397.2	361.6	421.9	419.1
67.5°	2999.7	769.8	279.4	271.2	205.5	243.8	315.0	413.7	380.8	443.8	435.6
70°	2868.2	687.6	263.0	271.2	213.7	252.0	315.0	424.6	383.5	479.4	471.2
72.5°	2586.0	561.6	238.3	260.2	227.4	263.0	331.5	421.9	383.5	517.8	509.5
75°	2199.8	449.3	205.5	238.3	227.4	276.7	342.4	419.1	369.8	493.1	476.7
77.5°	1673.8	367.1	172.6	208.2	216.4	282.2	342.4	413.7	358.9	460.2	449.3
80°	862.9	257.5	139.7	178.1	202.7	276.7	339.7	391.7	320.5	408.2	402.7
82.5°	473.9	189.0	112.3	131.5	169.8	260.2	328.7	353.4	282.2	334.2	320.5
85°	306.8	137.0	90.4	106.8	142.5	216.4	276.7	279.4	200.0	241.1	227.4
87.5°	230.1	79.4	57.5	65.7	98.6	120.5	175.3	180.8	126.0	147.9	139.7
90°	241.1	79.4	60.3	68.5	87.7	90.4	128.8	137.0	98.6	112.3	112.3
92.5°	257.5	79.4	63.0	71.2	79.4	71.2	101.4	112.3	82.2	90.4	87.7
95°	263.0	76.7	68.5	74.0	71.2	57.5	82.2	90.4	68.5	68.5	68.5
97.5°	191.8	54.8	68.5	74.0	65.7	46.6	63.0	71.2	43.8	35.6	35.6
100°	52.0	27.4	65.7	71.2	57.5	38.4	54.8	54.8	27.4	19.2	19.2
102.5°	21.9	21.9	57.5	63.0	43.8	24.7	38.4	38.4	19.2	8.2	8.2
105°	21.9	16.4	41.1	46.6	30.1	13.7	19.2	21.9	13.7	8.2	8.2
107.5°	21.9	16.4	19.2	24.7	13.7	11.0	11.0	11.0	8.2	8.2	8.2



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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	27.4	19.2	11.0	13.7	11.0	8.2	8.2	8.2	11.0	24.7	24.7
115°	24.7	16.4	11.0	11.0	8.2	8.2	5.5	5.5	11.0	30.1	30.1
117.5°	27.4	19.2	11.0	11.0	8.2	5.5	5.5	5.5	13.7	35.6	35.6
120°	32.9	21.9	11.0	8.2	5.5	5.5	5.5	5.5	16.4	38.4	38.4
122.5°	35.6	24.7	11.0	8.2	5.5	2.7	5.5	8.2	19.2	38.4	38.4
125°	30.1	21.9	11.0	8.2	5.5	2.7	5.5	8.2	19.2	35.6	38.4
127.5°	27.4	19.2	11.0	5.5	5.5	2.7	2.7	8.2	16.4	27.4	32.9
130°	21.9	16.4	8.2	5.5	5.5	2.7	2.7	5.5	16.4	24.7	30.1
132.5°	19.2	13.7	8.2	5.5	5.5	2.7	2.7	5.5	16.4	21.9	21.9
135°	13.7	11.0	5.5	5.5	5.5	2.7	5.5	2.7	11.0	19.2	19.2
137.5°	8.2	5.5	5.5	5.5	5.5	2.7	2.7	2.7	8.2	11.0	11.0
140°	2.7	2.7	5.5	5.5	5.5	2.7	2.7	2.7	5.5	5.5	5.5
142.5°	2.7	2.7	5.5	5.5	5.5	2.7	2.7	2.7	5.5	5.5	5.5
145°	2.7	2.7	2.7	5.5	5.5	2.7	2.7	2.7	2.7	2.7	5.5
147.5°	2.7	2.7	2.7	5.5	2.7	2.7	2.7	2.7	2.7	2.7	5.5
150°	2.7	2.7	2.7	5.5	5.5	2.7	2.7	5.5	5.5	5.5	5.5
152.5°	2.7	2.7	5.5	5.5	2.7	2.7	2.7	5.5	5.5	5.5	5.5
155°	8.2	8.2	5.5	5.5	2.7	2.7	0.0	2.7	5.5	5.5	5.5
157.5°	2.7	2.7	5.5	2.7	2.7	2.7	0.0	2.7	2.7	2.7	2.7
160°	2.7	2.7	2.7	2.7	2.7	2.7	0.0	2.7	2.7	2.7	2.7
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°	27.4	27.4	5.5	8.2	8.2	8.2	5.5	8.2	13.7	19.2	27.4
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110°	24.7	16.4	11.0	13.7	11.0	8.2	8.2	8.2	8.2	11.0	13.7
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(END OF REPORT)