

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: P561220

Luminaire Tested: **SDL-PA1-90-727-U-T2U-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561220
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-7)
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-T2U-A
Description: Springdale
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND CLEAR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8127.2 lumens
Efficiency: N/A
Efficacy: 88.0 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: B3 - U3 - G3

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



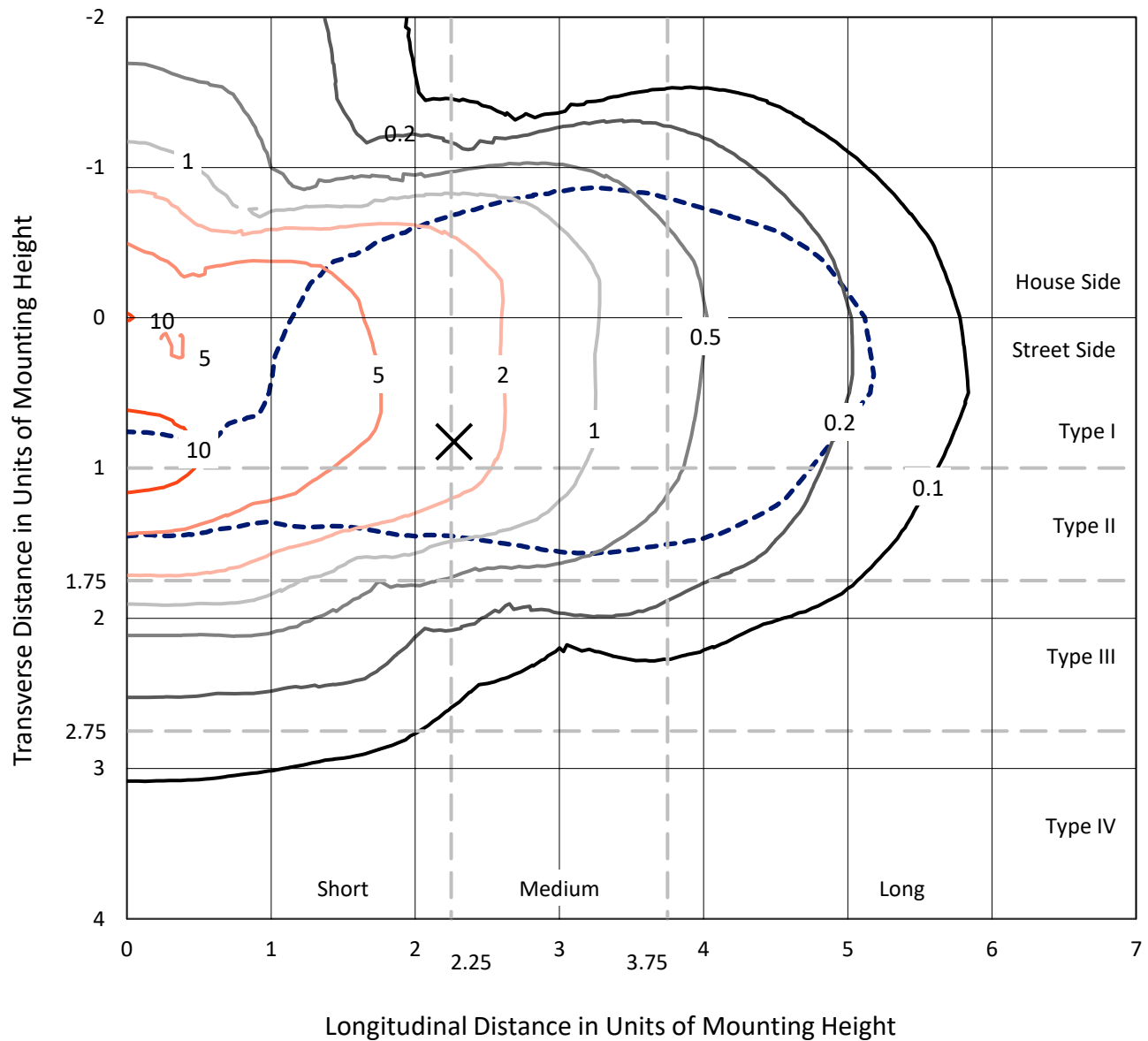
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



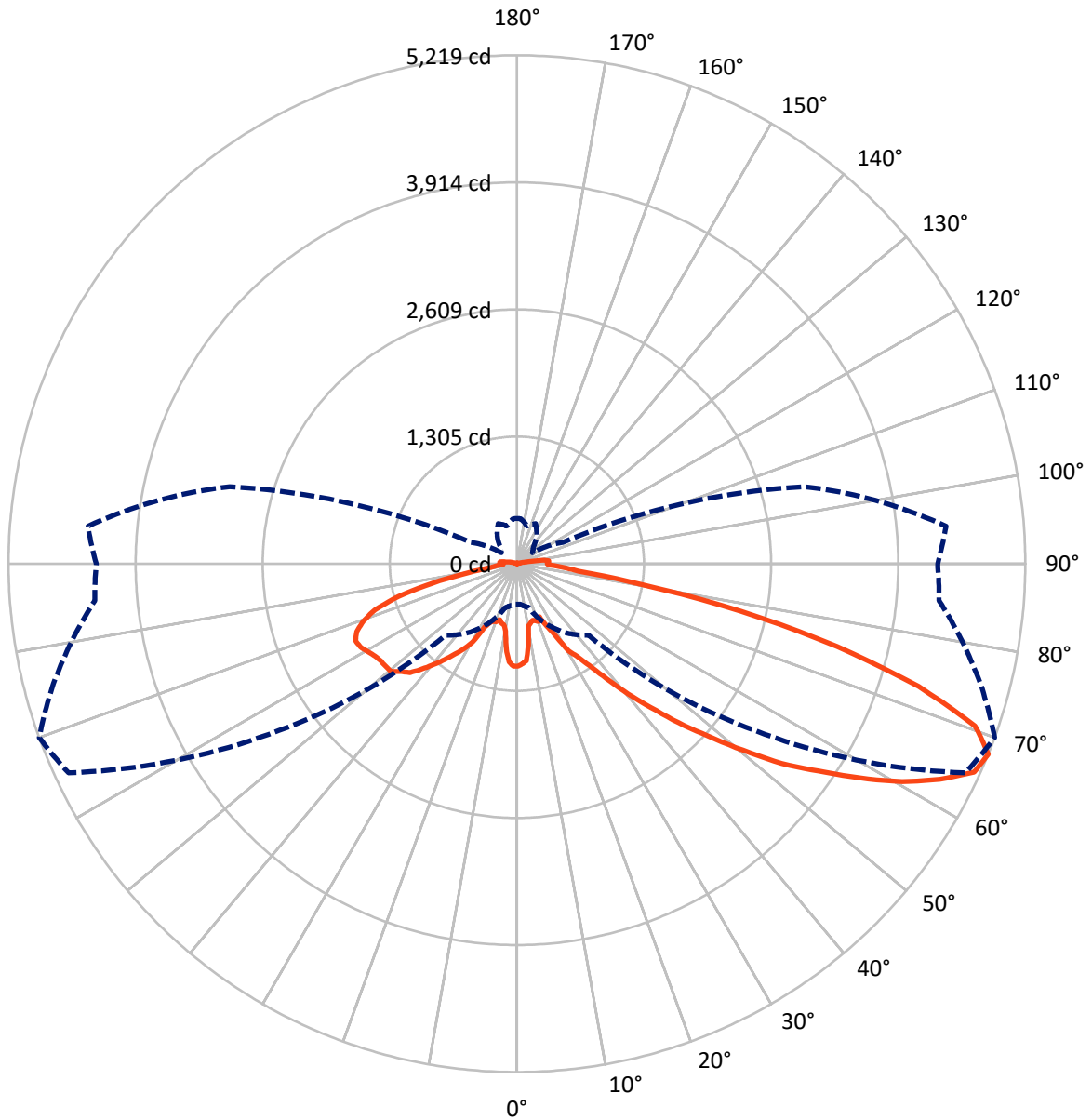
Based on 10 foot mounting height. Maximum calculated value = 13.5 fc

Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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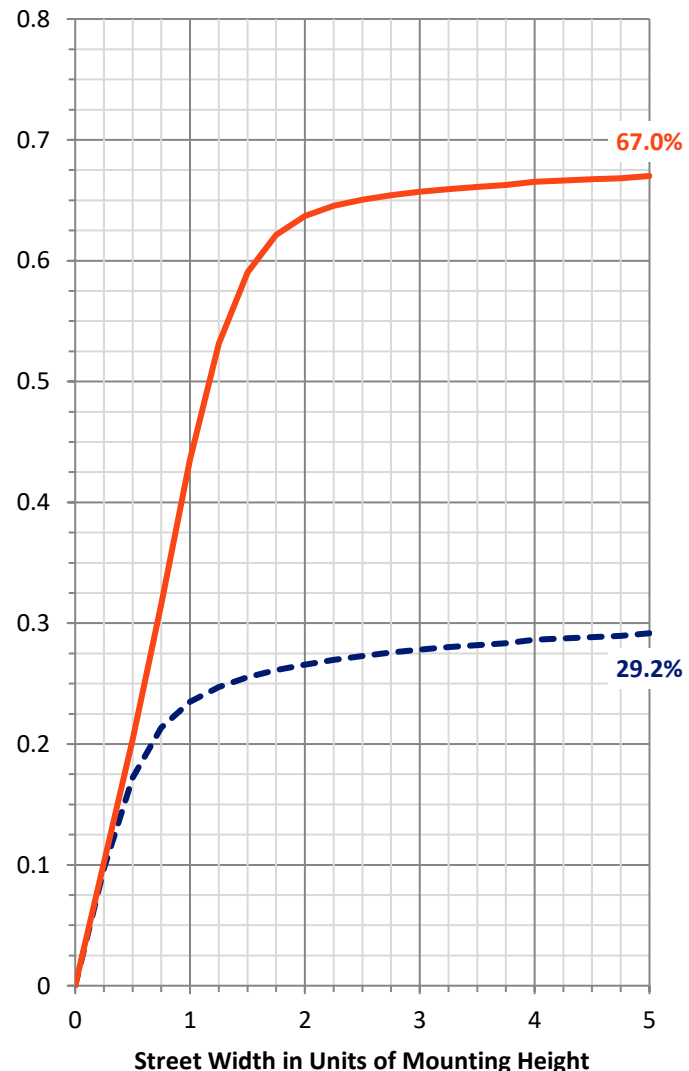
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2444.5	95.9	2540.3
	% Fixture	30.1	1.2	31.3
Street Side	Lumens	5494.2	92.7	5586.9
	% Fixture	67.6	1.1	68.7
Total	Lumens	7938.7	188.5	8127.2
	% Fixture	97.7	2.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	1.0
10°-20°	195.0	2.4
20°-30°	345.9	4.3
30°-40°	728.8	9.0
40°-50°	1362.6	16.8
50°-60°	1887.2	23.2
60°-70°	1819.7	22.4
70°-80°	1196.3	14.7
80°-90°	318.8	3.9
90°-100°	130.8	1.6
100°-110°	28.6	0.4
110°-120°	12.3	0.2
120°-130°	8.9	0.1
130°-140°	4.0	0.0
140°-150°	2.1	0.0
150°-160°	1.8	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	7938.7	97.7
0°-180°	8127.2	100.0



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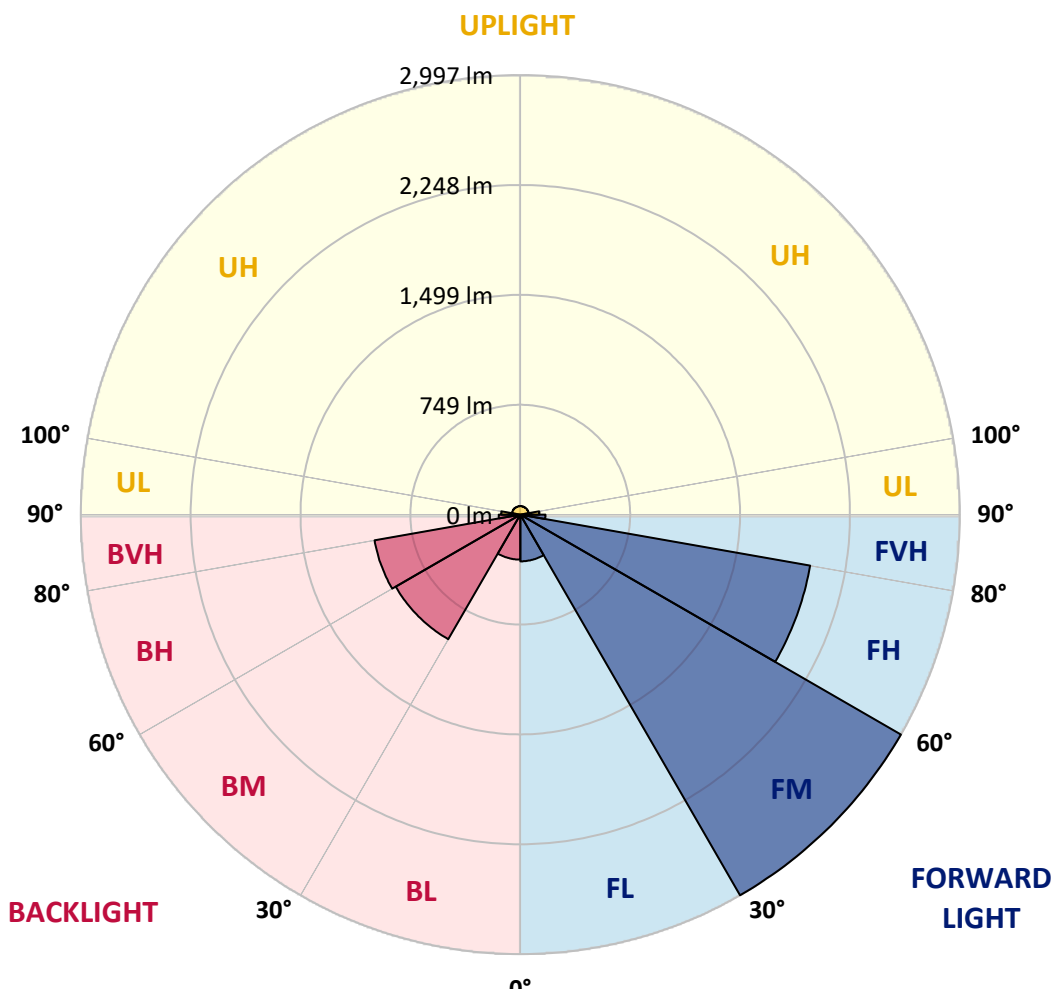
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	318.5	3.9			
FM	(30°-60°)	2997.2	36.9			
FH	(60°-80°)	2007.0	24.7			G2/5000
FVH	(80°-90°)	171.5	2.1			G2/225
BL	(0°-30°)	306.7	3.8	B1/500		
BM	(30°-60°)	981.4	12.1	B1/1000		
BH	(60°-80°)	1009.1	12.4	B3/2500		G3/2500
BVH	(80°-90°)	147.3	1.8			G2/225
UL	(90°-100°)	130.8	1.6		U3/500	
UH	(100°-180°)	57.7	0.7		U3/500	

BUG Rating: B3-U3-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8
2.5°	878.1	949.4	927.7	996.0	1011.5	1027.0	1030.1	1033.2	1030.1	1033.2	1039.4
5°	828.4	831.5	834.6	840.8	840.8	847.0	859.4	989.8	1002.2	1011.5	1023.9
7.5°	691.9	722.9	781.9	803.6	812.9	825.3	831.5	831.5	843.9	875.0	896.7
10°	769.5	763.3	766.4	769.5	726.0	716.7	651.6	642.3	651.6	673.3	775.7
12.5°	645.4	676.4	741.5	757.1	704.3	623.6	614.3	626.7	623.6	561.6	657.8
15°	747.7	744.6	738.4	726.0	589.5	617.4	530.6	536.8	601.9	645.4	735.3
17.5°	651.6	648.5	735.3	710.5	620.5	480.9	605.0	561.6	614.3	567.8	608.1
20°	809.8	806.7	797.4	592.6	632.9	639.1	586.4	543.0	632.9	654.7	738.4
22.5°	735.3	735.3	794.3	778.8	642.3	676.4	558.5	660.9	592.6	601.9	558.5
25°	1011.5	1002.2	989.8	722.9	772.6	620.5	691.9	608.1	707.4	766.4	803.6
27.5°	980.4	961.8	949.4	958.7	775.7	812.9	685.7	757.1	816.0	840.8	937.0
30°	1377.6	1352.8	1315.5	1005.3	964.9	831.5	828.4	937.0	1033.2	1110.8	1163.5
32.5°	1756.1	1762.3	1569.9	1349.7	1067.3	1110.8	986.6	1098.3	1129.4	1210.0	1241.1
35°	2252.5	2190.5	2069.5	1684.7	1300.0	1256.6	1148.0	1253.5	1284.5	1362.1	1380.7
37.5°	2643.5	2646.6	2460.4	2026.0	1557.5	1520.3	1331.0	1439.6	1495.5	1582.4	1551.3
40°	3018.9	3034.4	2885.5	2376.6	1883.3	1780.9	1551.3	1678.5	1756.1	1808.9	1756.1
42.5°	3354.0	3350.9	3248.5	2764.5	2187.4	2128.4	1784.0	1948.5	2016.7	2066.4	2026.0
45°	3617.7	3608.4	3515.3	3080.9	2547.3	2628.0	2088.1	2258.7	2330.1	2385.9	2286.7
47.5°	3707.7	3658.0	3617.7	3310.5	2882.4	3068.5	2463.5	2559.7	2643.5	2739.7	2578.3
50°	3611.5	3546.3	3561.9	3419.1	3164.7	3437.8	2866.9	2907.2	3009.6	3093.4	2854.5
52.5°	3211.3	3195.7	3282.6	3310.5	3285.7	3720.1	3319.9	3205.1	3406.7	3416.0	3139.9
55°	2683.8	2665.2	2870.0	2984.8	3170.9	3831.8	3704.6	3623.9	3754.2	3738.7	3394.3
57.5°	2162.6	2150.1	2336.3	2525.6	2848.2	3769.7	3974.5	4083.1	4148.3	4061.4	3630.1
60°	1448.9	1473.8	1793.3	2047.8	2330.1	3397.4	4076.9	4511.3	4542.3	4356.1	3878.3
62.5°	924.6	958.7	1163.5	1579.3	1740.6	2758.3	4002.4	4892.9	4874.3	4623.0	4107.9
65°	592.6	605.0	704.3	1070.4	1247.3	1827.5	3670.5	5153.5	5156.6	4861.9	4291.0
67.5°	415.8	418.9	465.4	667.1	862.5	1039.4	2984.8	5079.1	5218.7	4942.5	4349.9
70°	372.3	375.4	387.8	453.0	654.7	645.4	1808.9	4539.2	4989.1	4837.1	4260.0
72.5°	332.0	335.1	356.8	394.0	502.6	505.7	865.6	3614.6	4312.7	4461.6	3993.1
75°	276.1	282.3	307.2	369.2	387.8	425.1	580.2	2541.1	3394.3	3844.2	3676.7
77.5°	232.7	235.8	254.4	313.4	338.2	344.4	496.4	1408.6	2345.6	2829.6	3239.2
80°	186.2	186.2	201.7	248.2	279.2	282.3	443.7	744.6	1300.0	1712.7	2252.5
82.5°	121.0	124.1	142.7	186.2	207.9	279.2	394.0	543.0	636.0	825.3	1023.9
85°	77.6	77.6	90.0	105.5	124.1	214.1	347.5	449.9	474.7	518.1	465.4
87.5°	37.2	37.2	34.1	40.3	46.5	80.7	242.0	319.6	322.7	316.5	341.3
90°	31.0	31.0	24.8	27.9	31.0	43.4	183.1	313.4	310.3	322.7	353.7
92.5°	34.1	34.1	24.8	27.9	31.0	37.2	133.4	316.5	325.8	341.3	375.4
95°	37.2	37.2	24.8	24.8	27.9	34.1	83.8	273.0	328.9	344.4	387.8
97.5°	34.1	34.1	18.6	21.7	24.8	31.0	52.7	204.8	257.5	269.9	307.2
100°	31.0	31.0	15.5	18.6	21.7	24.8	34.1	105.5	111.7	83.8	117.9
102.5°	27.9	31.0	12.4	15.5	15.5	15.5	21.7	49.6	49.6	27.9	31.0
105°	27.9	31.0	12.4	12.4	9.3	12.4	12.4	18.6	21.7	15.5	24.8
107.5°	31.0	31.0	12.4	12.4	9.3	9.3	9.3	12.4	15.5	12.4	24.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	18.6	18.6	9.3	12.4	6.2	6.2	6.2	9.3	12.4	15.5	34.1
115°	15.5	12.4	6.2	9.3	6.2	6.2	6.2	9.3	9.3	12.4	27.9
117.5°	15.5	12.4	6.2	6.2	3.1	6.2	6.2	9.3	9.3	12.4	24.8
120°	15.5	15.5	6.2	3.1	3.1	3.1	3.1	6.2	9.3	15.5	27.9
122.5°	18.6	15.5	6.2	6.2	3.1	3.1	3.1	6.2	9.3	15.5	27.9
125°	18.6	18.6	9.3	6.2	3.1	3.1	3.1	6.2	9.3	12.4	24.8
127.5°	18.6	15.5	9.3	6.2	3.1	3.1	3.1	3.1	6.2	9.3	21.7
130°	15.5	15.5	9.3	3.1	3.1	3.1	3.1	3.1	6.2	6.2	15.5
132.5°	12.4	12.4	9.3	3.1	3.1	3.1	3.1	3.1	3.1	6.2	12.4
135°	9.3	9.3	6.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	9.3
137.5°	6.2	6.2	6.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
140°	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
142.5°	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
145°	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
147.5°	3.1	3.1	3.1	6.2	6.2	3.1	3.1	3.1	3.1	3.1	3.1
150°	6.2	6.2	12.4	9.3	6.2	3.1	6.2	3.1	3.1	3.1	3.1
152.5°	9.3	9.3	12.4	9.3	3.1	3.1	3.1	6.2	3.1	3.1	3.1
155°	6.2	6.2	6.2	3.1	3.1	3.1	3.1	3.1	6.2	6.2	9.3
157.5°	0.0	0.0	3.1	3.1	3.1	3.1	3.1	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	3.1	3.1	3.1	3.1	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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8
2.5°	1042.5	1042.5	1051.8	1054.9	1051.8	1048.7	1030.1	974.2	940.1	943.2	943.2
5°	1027.0	1030.1	1039.4	983.5	915.3	921.5	930.8	933.9	933.9	940.1	940.1
7.5°	906.0	909.1	884.3	893.6	915.3	930.8	937.0	921.5	871.8	853.2	853.2
10°	785.0	785.0	698.1	701.2	726.0	772.6	918.4	933.9	949.4	952.5	949.4
12.5°	664.0	667.1	595.7	685.7	654.7	738.4	847.0	937.0	865.6	794.3	803.6
15°	741.5	747.7	670.2	589.5	605.0	729.1	632.9	868.7	875.0	875.0	875.0
17.5°	595.7	629.8	592.6	608.1	670.2	549.2	716.7	794.3	729.1	710.5	710.5
20°	741.5	741.5	676.4	586.4	620.5	713.6	636.0	707.4	831.5	831.5	828.4
22.5°	552.3	552.3	592.6	679.5	623.6	704.3	673.3	732.2	660.9	660.9	679.5
25°	797.4	788.1	719.8	601.9	710.5	651.6	676.4	639.1	747.7	757.1	750.8
27.5°	961.8	955.6	772.6	691.9	667.1	695.0	608.1	595.7	574.0	660.9	651.6
30°	1138.7	1123.2	1011.5	834.6	732.2	586.4	549.2	570.9	632.9	636.0	632.9
32.5°	1222.5	1188.3	1064.2	999.1	747.7	605.0	493.3	508.8	629.8	667.1	667.1
35°	1337.2	1300.0	1160.4	1089.0	744.6	533.7	437.5	493.3	567.8	570.9	570.9
37.5°	1495.5	1439.6	1321.7	1141.8	695.0	471.6	403.3	437.5	490.2	505.7	511.9
40°	1678.5	1607.2	1501.7	1175.9	623.6	397.1	359.9	403.3	443.7	431.3	431.3
42.5°	1936.1	1830.6	1678.5	1228.7	533.7	350.6	328.9	369.2	397.1	403.3	400.2
45°	2178.1	2047.8	1886.4	1247.3	434.4	316.5	307.2	350.6	378.5	369.2	369.2
47.5°	2451.1	2286.7	2041.6	1203.8	356.8	297.9	307.2	338.2	350.6	366.1	366.1
50°	2721.0	2544.2	2268.0	1135.6	316.5	285.4	307.2	325.8	350.6	359.9	356.8
52.5°	2966.1	2811.0	2404.6	1014.6	294.8	276.1	297.9	325.8	356.8	372.3	372.3
55°	3233.0	3074.7	2528.7	906.0	276.1	257.5	307.2	338.2	347.5	356.8	356.8
57.5°	3434.7	3310.5	2665.2	809.8	263.7	257.5	313.4	353.7	350.6	359.9	359.9
60°	3679.8	3571.2	2789.3	763.3	245.1	245.1	325.8	381.6	356.8	384.7	384.7
62.5°	3940.4	3875.2	2910.3	729.1	226.5	238.9	328.9	403.3	369.2	412.7	415.8
65°	4191.7	4204.1	3022.0	648.5	211.0	238.9	335.1	431.3	381.6	437.5	443.7
67.5°	4318.9	4421.3	3053.0	521.2	195.5	235.8	353.7	453.0	400.2	462.3	465.4
70°	4294.1	4427.5	2981.7	384.7	183.1	248.2	381.6	471.6	409.6	493.3	493.3
72.5°	4076.9	4173.1	2770.7	291.7	170.6	238.9	387.8	477.8	415.8	543.0	543.0
75°	3769.7	3670.5	2280.5	242.0	161.3	238.9	378.5	471.6	409.6	530.6	527.5
77.5°	3270.2	2938.2	1573.1	214.1	152.0	229.6	353.7	459.2	390.9	493.3	499.5
80°	2097.4	1808.9	803.6	186.2	161.3	220.3	341.3	425.1	363.0	440.6	443.7
82.5°	955.6	803.6	366.1	164.4	158.2	198.6	310.3	378.5	316.5	375.4	372.3
85°	403.3	409.6	288.5	139.6	139.6	155.1	229.6	294.8	245.1	263.7	257.5
87.5°	313.4	301.0	198.6	83.8	90.0	68.3	148.9	211.0	161.3	170.6	167.5
90°	332.0	325.8	211.0	86.9	65.2	40.3	111.7	164.4	121.0	108.6	105.5
92.5°	353.7	350.6	235.8	93.1	65.2	34.1	96.2	133.4	86.9	74.5	71.4
95°	378.5	378.5	257.5	99.3	65.2	34.1	86.9	102.4	65.2	49.6	46.5
97.5°	301.0	307.2	220.3	102.4	62.1	34.1	77.6	83.8	49.6	27.9	27.9
100°	121.0	133.4	121.0	102.4	55.8	27.9	62.1	65.2	34.1	15.5	15.5
102.5°	27.9	34.1	83.8	90.0	43.4	18.6	40.3	40.3	21.7	9.3	9.3
105°	27.9	24.8	55.8	71.4	24.8	12.4	18.6	24.8	12.4	6.2	6.2
107.5°	27.9	27.9	24.8	34.1	12.4	9.3	9.3	9.3	6.2	6.2	6.2



REPORT NUMBER: P561220

CATALOG NUMBER: SDL-PA1-90-727-U-T2U-A

CANDELA DISTRIBUTION (continued):

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