

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: P560626

Luminaire Tested: **SDL-PA1-50-827-U-T2U-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P560626
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-PA1-50-827-U-T2U-A
Description: Springdale
(1) 80 CRI, 2700K, 670mA 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: 4494.9 lumens
Efficiency: N/A
Efficacy: 85.8 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: B2 - U3 - G2

Input Watts (W): 52.4
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

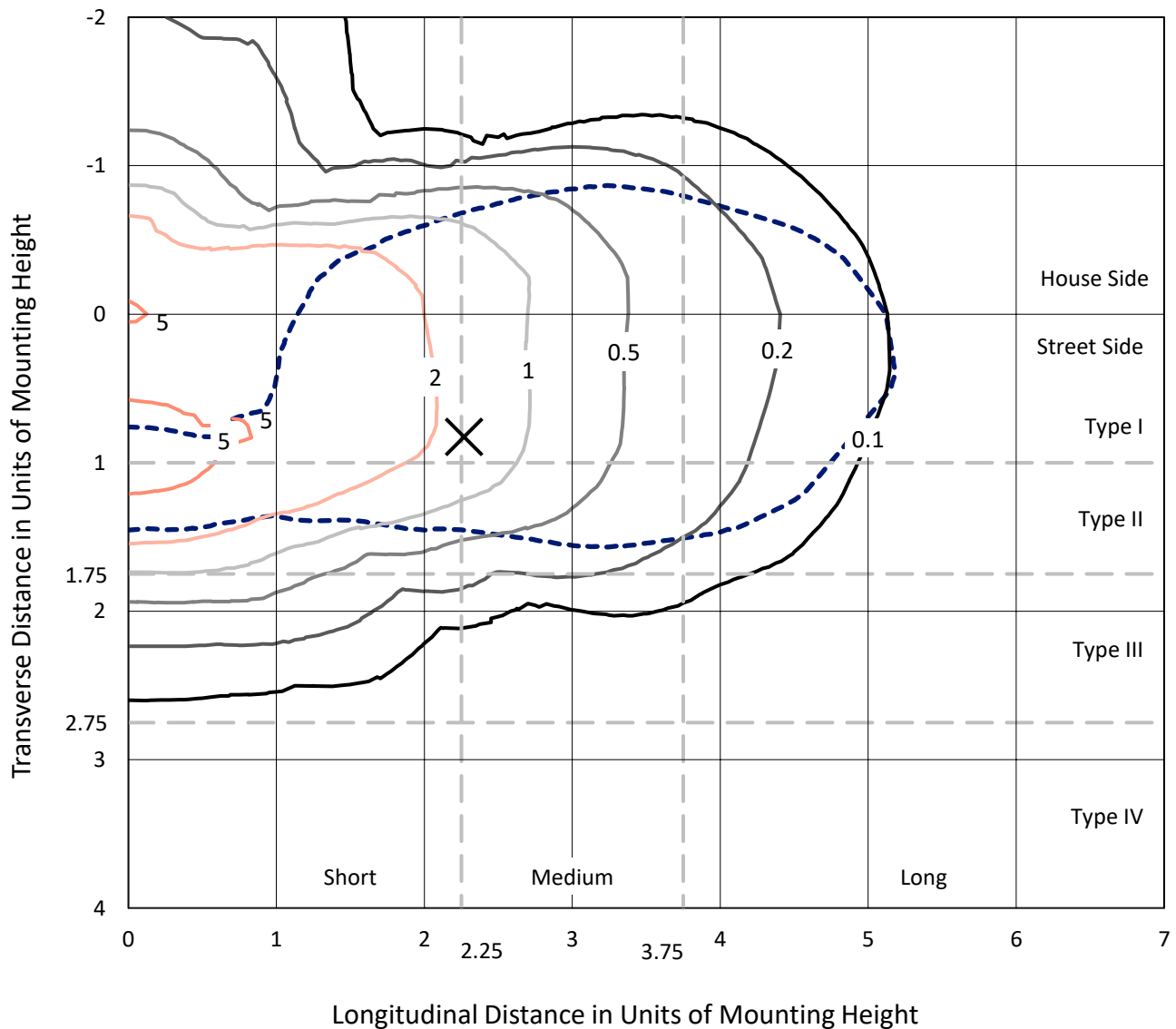


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

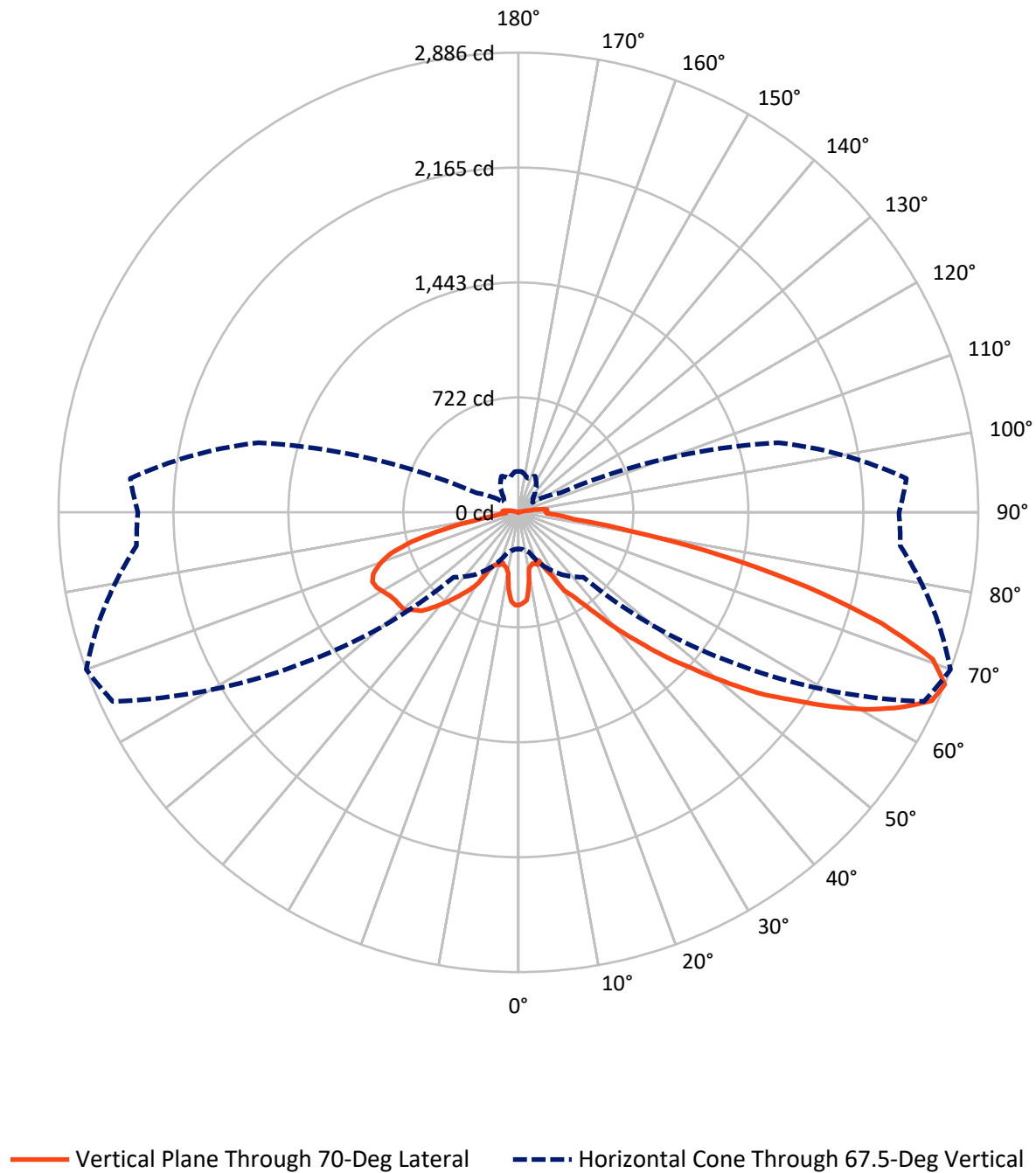


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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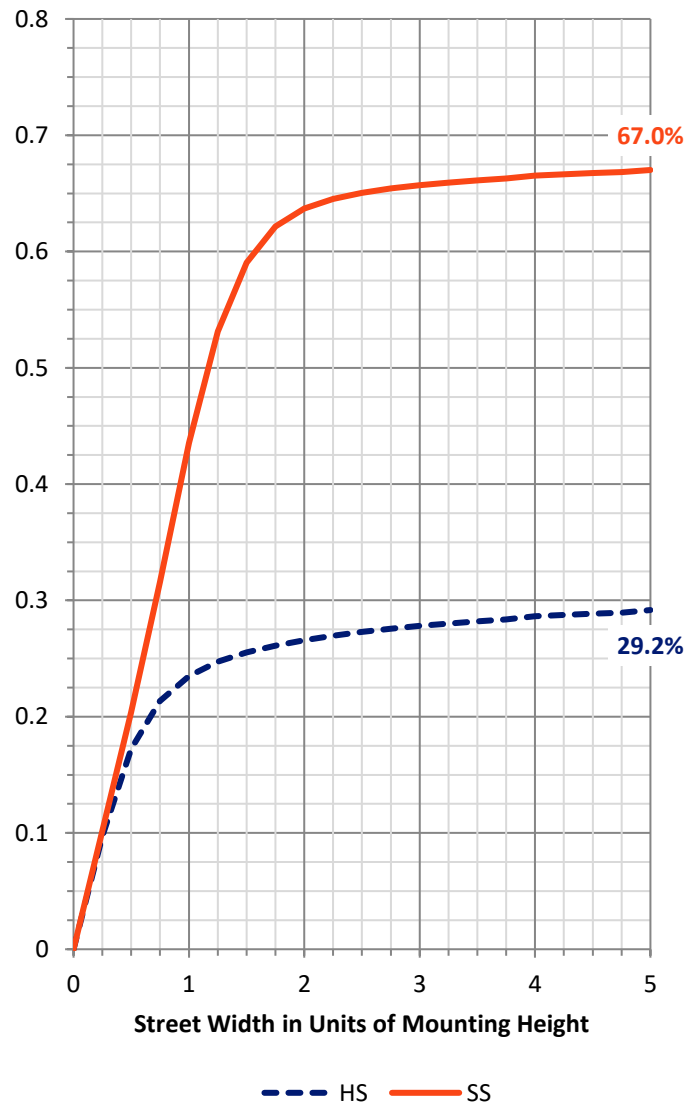
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1352.0	53.0	1405.0
	% Fixture	30.1	1.2	31.3
Street Side	Lumens	3038.7	51.2	3090.0
	% Fixture	67.6	1.1	68.7
Total	Lumens	4390.7	104.2	4494.9
	% Fixture	97.7	2.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	1.0
10°-20°	107.8	2.4
20°-30°	191.3	4.3
30°-40°	403.1	9.0
40°-50°	753.6	16.8
50°-60°	1043.8	23.2
60°-70°	1006.5	22.4
70°-80°	661.7	14.7
80°-90°	176.3	3.9
90°-100°	72.3	1.6
100°-110°	15.8	0.4
110°-120°	6.8	0.2
120°-130°	4.9	0.1
130°-140°	2.2	0.0
140°-150°	1.2	0.0
150°-160°	1.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4390.7	97.7
0°-180°	4494.9	100.0

Coefficient of Utilization



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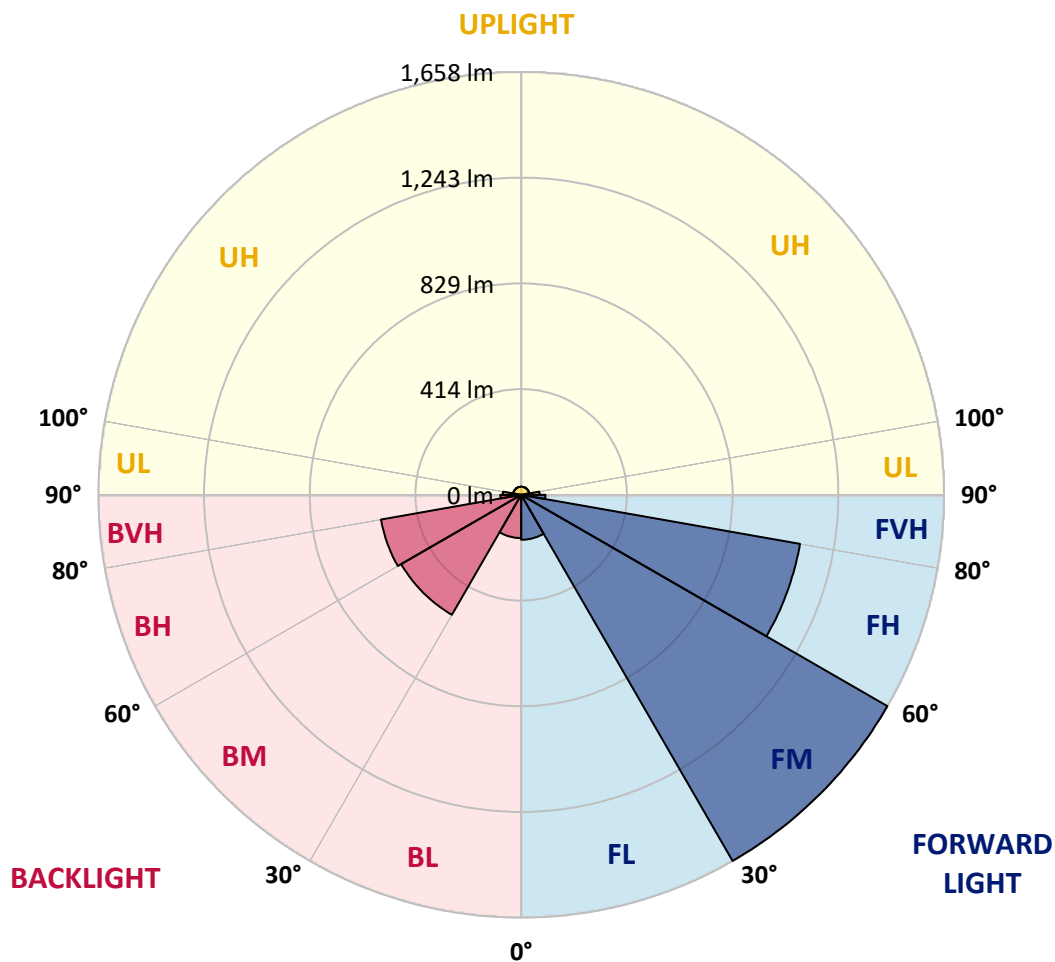
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	176.1	3.9			
FM	(30°-60°)	1657.7	36.9			
FH	(60°-80°)	1110.0	24.7			G1/1800
FVH	(80°-90°)	94.9	2.1			G1/100
BL	(0°-30°)	169.6	3.8	B1/500		
BM	(30°-60°)	542.8	12.1	B1/1000		
BH	(60°-80°)	558.1	12.4	B2/1000		G2/1000
BVH	(80°-90°)	81.5	1.8			G1/100
UL	(90°-100°)	72.3	1.6		U3/500	
UH	(100°-180°)	31.9	0.7		U2/50	

BUG Rating: B2-U3-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	581.7	581.7	581.7	581.7	581.7	581.7	581.7	581.7	581.7	581.7	581.7
2.5°	485.6	525.1	513.1	550.8	559.4	568.0	569.7	571.4	569.7	571.4	574.9
5°	458.2	459.9	461.6	465.0	465.0	468.5	475.3	547.4	554.3	559.4	566.3
7.5°	382.7	399.8	432.4	444.4	449.6	456.5	459.9	459.9	466.8	483.9	495.9
10°	425.6	422.1	423.9	425.6	401.5	396.4	360.4	355.2	360.4	372.4	429.0
12.5°	356.9	374.1	410.1	418.7	389.5	344.9	339.8	346.6	344.9	310.6	363.8
15°	413.6	411.8	408.4	401.5	326.0	341.5	293.4	296.9	332.9	356.9	406.7
17.5°	360.4	358.6	406.7	393.0	343.2	266.0	334.6	310.6	339.8	314.0	336.3
20°	447.9	446.2	441.0	327.8	350.1	353.5	324.3	300.3	350.1	362.1	408.4
22.5°	406.7	406.7	439.3	430.7	355.2	374.1	308.9	365.5	327.8	332.9	308.9
25°	559.4	554.3	547.4	399.8	427.3	343.2	382.7	336.3	391.3	423.9	444.4
27.5°	542.3	532.0	525.1	530.3	429.0	449.6	379.2	418.7	451.3	465.0	518.2
30°	761.9	748.2	727.6	556.0	533.7	459.9	458.2	518.2	571.4	614.3	643.5
32.5°	971.3	974.7	868.3	746.5	590.3	614.3	545.7	607.5	624.6	669.2	686.4
35°	1245.8	1211.5	1144.6	931.8	719.0	695.0	634.9	693.3	710.4	753.3	763.6
37.5°	1462.1	1463.8	1360.8	1120.6	861.4	840.9	736.2	796.2	827.1	875.2	858.0
40°	1669.7	1678.3	1595.9	1314.5	1041.6	985.0	858.0	928.4	971.3	1000.4	971.3
42.5°	1855.0	1853.3	1796.7	1529.0	1209.8	1177.2	986.7	1077.7	1115.4	1142.9	1120.6
45°	2000.9	1995.7	1944.3	1704.0	1408.9	1453.5	1154.9	1249.3	1288.7	1319.6	1264.7
47.5°	2050.6	2023.2	2000.9	1831.0	1594.2	1697.1	1362.5	1415.7	1462.1	1515.2	1426.0
50°	1997.4	1961.4	1970.0	1891.1	1750.3	1901.4	1585.6	1607.9	1664.5	1710.9	1578.7
52.5°	1776.1	1767.5	1815.6	1831.0	1817.3	2057.5	1836.1	1772.7	1884.2	1889.3	1736.6
55°	1484.4	1474.1	1587.3	1650.8	1753.8	2119.3	2048.9	2004.3	2076.4	2067.8	1877.3
57.5°	1196.1	1189.2	1292.2	1396.8	1575.3	2085.0	2198.2	2258.3	2294.3	2246.3	2007.7
60°	801.4	815.1	991.9	1132.6	1288.7	1879.0	2254.9	2495.1	2512.3	2409.3	2145.0
62.5°	511.4	530.3	643.5	873.5	962.7	1525.5	2213.7	2706.2	2695.9	2556.9	2272.0
65°	327.8	334.6	389.5	592.0	689.8	1010.7	2030.1	2850.3	2852.0	2689.0	2373.3
67.5°	229.9	231.7	257.4	368.9	477.1	574.9	1650.8	2809.1	2886.3	2733.6	2405.9
70°	205.9	207.6	214.5	250.5	362.1	356.9	1000.4	2510.5	2759.4	2675.3	2356.1
72.5°	183.6	185.3	197.3	217.9	278.0	279.7	478.8	1999.2	2385.3	2467.6	2208.5
75°	152.7	156.2	169.9	204.2	214.5	235.1	320.9	1405.4	1877.3	2126.2	2033.5
77.5°	128.7	130.4	140.7	173.3	187.0	190.5	274.6	779.1	1297.3	1565.0	1791.5
80°	103.0	103.0	111.5	137.3	154.4	156.2	245.4	411.8	719.0	947.2	1245.8
82.5°	66.9	68.6	78.9	103.0	115.0	154.4	217.9	300.3	351.8	456.5	566.3
85°	42.9	42.9	49.8	58.3	68.6	118.4	192.2	248.8	262.6	286.6	257.4
87.5°	20.6	20.6	18.9	22.3	25.7	44.6	133.8	176.8	178.5	175.0	188.8
90°	17.2	17.2	13.7	15.4	17.2	24.0	101.2	173.3	171.6	178.5	195.6
92.5°	18.9	18.9	13.7	15.4	17.2	20.6	73.8	175.0	180.2	188.8	207.6
95°	20.6	20.6	13.7	13.7	15.4	18.9	46.3	151.0	181.9	190.5	214.5
97.5°	18.9	18.9	10.3	12.0	13.7	17.2	29.2	113.3	142.4	149.3	169.9
100°	17.2	17.2	8.6	10.3	12.0	13.7	18.9	58.3	61.8	46.3	65.2
102.5°	15.4	17.2	6.9	8.6	8.6	8.6	12.0	27.5	27.5	15.4	17.2
105°	15.4	17.2	6.9	6.9	5.1	6.9	6.9	10.3	12.0	8.6	13.7
107.5°	17.2	17.2	6.9	6.9	5.1	5.1	5.1	6.9	8.6	6.9	13.7
110°	15.4	15.4	5.1	6.9	3.4	3.4	3.4	5.1	6.9	6.9	15.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	10.3	10.3	5.1	6.9	3.4	3.4	3.4	5.1	6.9	8.6	18.9
115°	8.6	6.9	3.4	5.1	3.4	3.4	3.4	5.1	5.1	6.9	15.4
117.5°	8.6	6.9	3.4	3.4	1.7	3.4	3.4	5.1	5.1	6.9	13.7
120°	8.6	8.6	3.4	1.7	1.7	1.7	1.7	3.4	5.1	8.6	15.4
122.5°	10.3	8.6	3.4	3.4	1.7	1.7	1.7	3.4	5.1	8.6	15.4
125°	10.3	10.3	5.1	3.4	1.7	1.7	1.7	3.4	5.1	6.9	13.7
127.5°	10.3	8.6	5.1	3.4	1.7	1.7	1.7	1.7	3.4	5.1	12.0
130°	8.6	8.6	5.1	1.7	1.7	1.7	1.7	1.7	3.4	3.4	8.6
132.5°	6.9	6.9	5.1	1.7	1.7	1.7	1.7	1.7	1.7	3.4	6.9
135°	5.1	5.1	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	5.1
137.5°	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
140°	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
142.5°	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
145°	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
147.5°	1.7	1.7	1.7	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7
150°	3.4	3.4	6.9	5.1	3.4	1.7	3.4	1.7	1.7	1.7	1.7
152.5°	5.1	5.1	6.9	5.1	1.7	1.7	1.7	3.4	1.7	1.7	1.7
155°	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	3.4	3.4	5.1
157.5°	0.0	0.0	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	1.7	1.7	1.7	1.7	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°	581.7	581.7	581.7	581.7	581.7	581.7	581.7	581.7	581.7	581.7	581.7
2.5°	576.6	576.6	581.7	583.4	581.7	580.0	569.7	538.8	520.0	521.7	521.7
5°	568.0	569.7	574.9	544.0	506.2	509.7	514.8	516.5	516.5	520.0	520.0
7.5°	501.1	502.8	489.1	494.2	506.2	514.8	518.2	509.7	482.2	471.9	471.9
10°	434.2	434.2	386.1	387.8	401.5	427.3	507.9	516.5	525.1	526.8	525.1
12.5°	367.2	368.9	329.5	379.2	362.1	408.4	468.5	518.2	478.8	439.3	444.4
15°	410.1	413.6	370.7	326.0	334.6	403.3	350.1	480.5	483.9	483.9	483.9
17.5°	329.5	348.4	327.8	336.3	370.7	303.7	396.4	439.3	403.3	393.0	393.0
20°	410.1	410.1	374.1	324.3	343.2	394.7	351.8	391.3	459.9	459.9	458.2
22.5°	305.5	305.5	327.8	375.8	344.9	389.5	372.4	405.0	365.5	365.5	375.8
25°	441.0	435.9	398.1	332.9	393.0	360.4	374.1	353.5	413.6	418.7	415.3
27.5°	532.0	528.5	427.3	382.7	368.9	384.4	336.3	329.5	317.5	365.5	360.4
30°	629.8	621.2	559.4	461.6	405.0	324.3	303.7	315.7	350.1	351.8	350.1
32.5°	676.1	657.2	588.6	552.6	413.6	334.6	272.8	281.4	348.4	368.9	368.9
35°	739.6	719.0	641.8	602.3	411.8	295.2	242.0	272.8	314.0	315.7	315.7
37.5°	827.1	796.2	731.0	631.5	384.4	260.8	223.1	242.0	271.1	279.7	283.1
40°	928.4	888.9	830.6	650.4	344.9	219.7	199.1	223.1	245.4	238.5	238.5
42.5°	1070.8	1012.5	928.4	679.5	295.2	193.9	181.9	204.2	219.7	223.1	221.4
45°	1204.6	1132.6	1043.3	689.8	240.2	175.0	169.9	193.9	209.4	204.2	204.2
47.5°	1355.7	1264.7	1129.1	665.8	197.3	164.7	169.9	187.0	193.9	202.5	202.5
50°	1505.0	1407.1	1254.4	628.1	175.0	157.9	169.9	180.2	193.9	199.1	197.3
52.5°	1640.5	1554.7	1329.9	561.1	163.0	152.7	164.7	180.2	197.3	205.9	205.9
55°	1788.1	1700.6	1398.6	501.1	152.7	142.4	169.9	187.0	192.2	197.3	197.3
57.5°	1899.6	1831.0	1474.1	447.9	145.9	142.4	173.3	195.6	193.9	199.1	199.1
60°	2035.2	1975.1	1542.7	422.1	135.6	135.6	180.2	211.1	197.3	212.8	212.8
62.5°	2179.3	2143.3	1609.6	403.3	125.3	132.1	181.9	223.1	204.2	228.2	229.9
65°	2318.3	2325.2	1671.4	358.6	116.7	132.1	185.3	238.5	211.1	242.0	245.4
67.5°	2388.7	2445.3	1688.6	288.3	108.1	130.4	195.6	250.5	221.4	255.7	257.4
70°	2375.0	2448.8	1649.1	212.8	101.2	137.3	211.1	260.8	226.5	272.8	272.8
72.5°	2254.9	2308.0	1532.4	161.3	94.4	132.1	214.5	264.3	229.9	300.3	300.3
75°	2085.0	2030.1	1261.3	133.8	89.2	132.1	209.4	260.8	226.5	293.4	291.7
77.5°	1808.7	1625.1	870.0	118.4	84.1	127.0	195.6	254.0	216.2	272.8	276.3
80°	1160.0	1000.4	444.4	103.0	89.2	121.8	188.8	235.1	200.8	243.7	245.4
82.5°	528.5	444.4	202.5	90.9	87.5	109.8	171.6	209.4	175.0	207.6	205.9
85°	223.1	226.5	159.6	77.2	77.2	85.8	127.0	163.0	135.6	145.9	142.4
87.5°	173.3	166.5	109.8	46.3	49.8	37.8	82.4	116.7	89.2	94.4	92.7
90°	183.6	180.2	116.7	48.0	36.0	22.3	61.8	90.9	66.9	60.1	58.3
92.5°	195.6	193.9	130.4	51.5	36.0	18.9	53.2	73.8	48.0	41.2	39.5
95°	209.4	209.4	142.4	54.9	36.0	18.9	48.0	56.6	36.0	27.5	25.7
97.5°	166.5	169.9	121.8	56.6	34.3	18.9	42.9	46.3	27.5	15.4	15.4
100°	66.9	73.8	66.9	56.6	30.9	15.4	34.3	36.0	18.9	8.6	8.6
102.5°	15.4	18.9	46.3	49.8	24.0	10.3	22.3	22.3	12.0	5.1	5.1
105°	15.4	13.7	30.9	39.5	13.7	6.9	10.3	13.7	6.9	3.4	3.4
107.5°	15.4	15.4	13.7	18.9	6.9	5.1	5.1	5.1	3.4	3.4	3.4
110°	17.2	15.4	6.9	6.9	5.1	5.1	3.4	3.4	1.7	10.3	12.0



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CATALOG NUMBER: SDL-PA1-50-827-U-T2U-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	20.6	18.9	8.6	6.9	5.1	5.1	3.4	3.4	5.1	17.2	17.2
115°	17.2	15.4	8.6	5.1	5.1	5.1	3.4	1.7	5.1	18.9	18.9
117.5°	15.4	13.7	8.6	5.1	3.4	5.1	3.4	1.7	5.1	18.9	18.9
120°	17.2	15.4	8.6	5.1	3.4	3.4	3.4	1.7	5.1	17.2	17.2
122.5°	17.2	17.2	10.3	3.4	3.4	1.7	3.4	1.7	5.1	15.4	15.4
125°	15.4	13.7	8.6	3.4	1.7	1.7	1.7	1.7	6.9	13.7	15.4
127.5°	13.7	12.0	6.9	3.4	1.7	1.7	1.7	1.7	5.1	10.3	12.0
130°	10.3	10.3	5.1	3.4	1.7	1.7	1.7	1.7	5.1	10.3	8.6
132.5°	6.9	6.9	5.1	3.4	1.7	1.7	1.7	1.7	5.1	6.9	6.9
135°	5.1	5.1	3.4	1.7	1.7	1.7	1.7	1.7	3.4	5.1	5.1
137.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4
140°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
142.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
145°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
147.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
150°	1.7	1.7	1.7	1.7	3.4	1.7	1.7	3.4	1.7	1.7	1.7
152.5°	1.7	1.7	1.7	3.4	1.7	1.7	1.7	1.7	5.1	5.1	3.4
155°	5.1	5.1	3.4	1.7	1.7	1.7	1.7	1.7	3.4	1.7	1.7
157.5°	1.7	1.7	1.7	1.7	1.7	0.0	1.7	0.0	0.0	1.7	0.0
160°	0.0	0.0	1.7	1.7	1.7	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

(END OF REPORT)