

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: P559930

Luminaire Tested: **SDL-PA1-100-827-U-T4W-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P559930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-11)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-100-827-U-T4W-A
Description: Springdale
(1) 80 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND CLEAR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6997.6 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium
BUG Rating: B2 - U3 - G3

Input Watts (W): 93.8
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

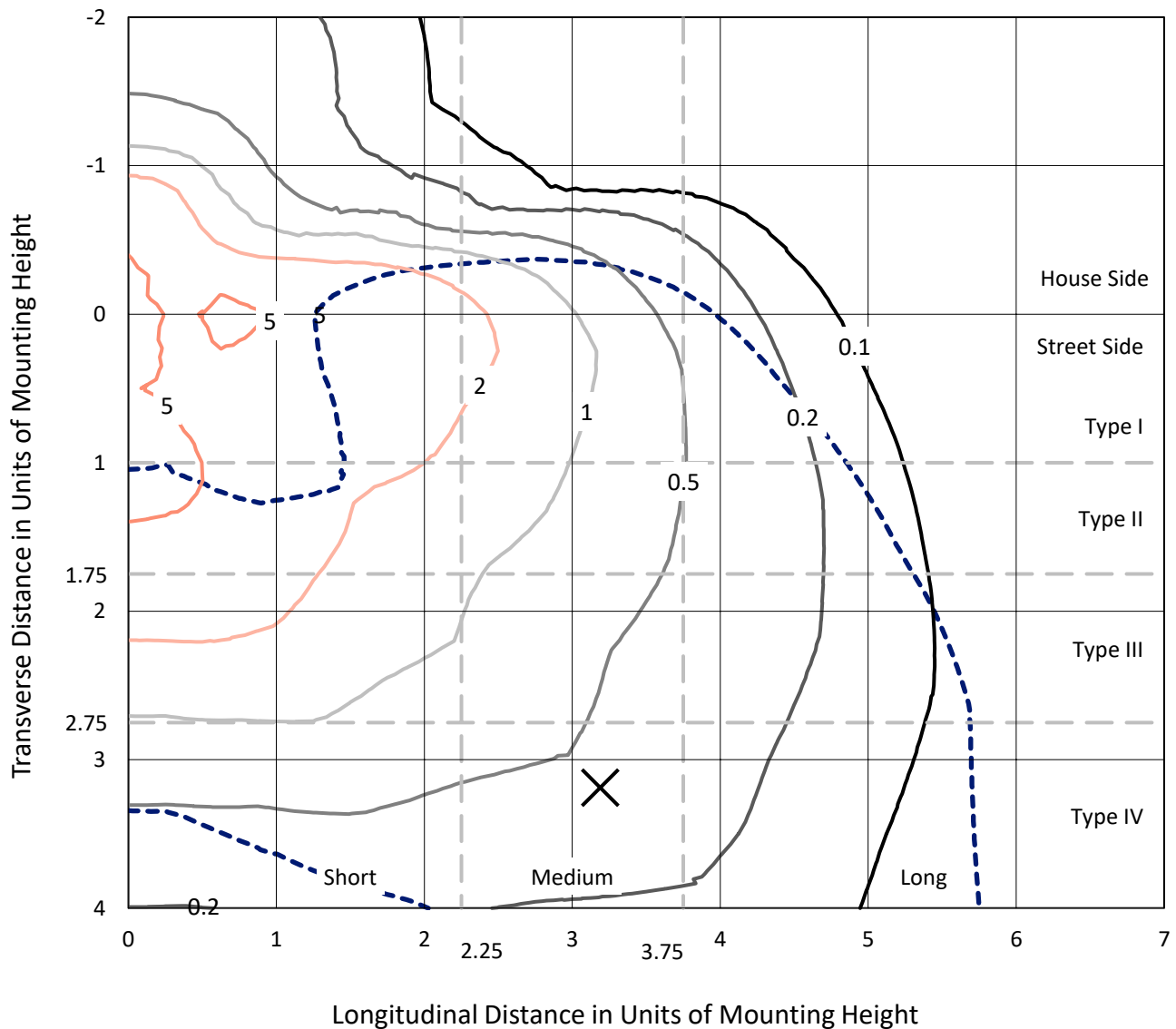


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

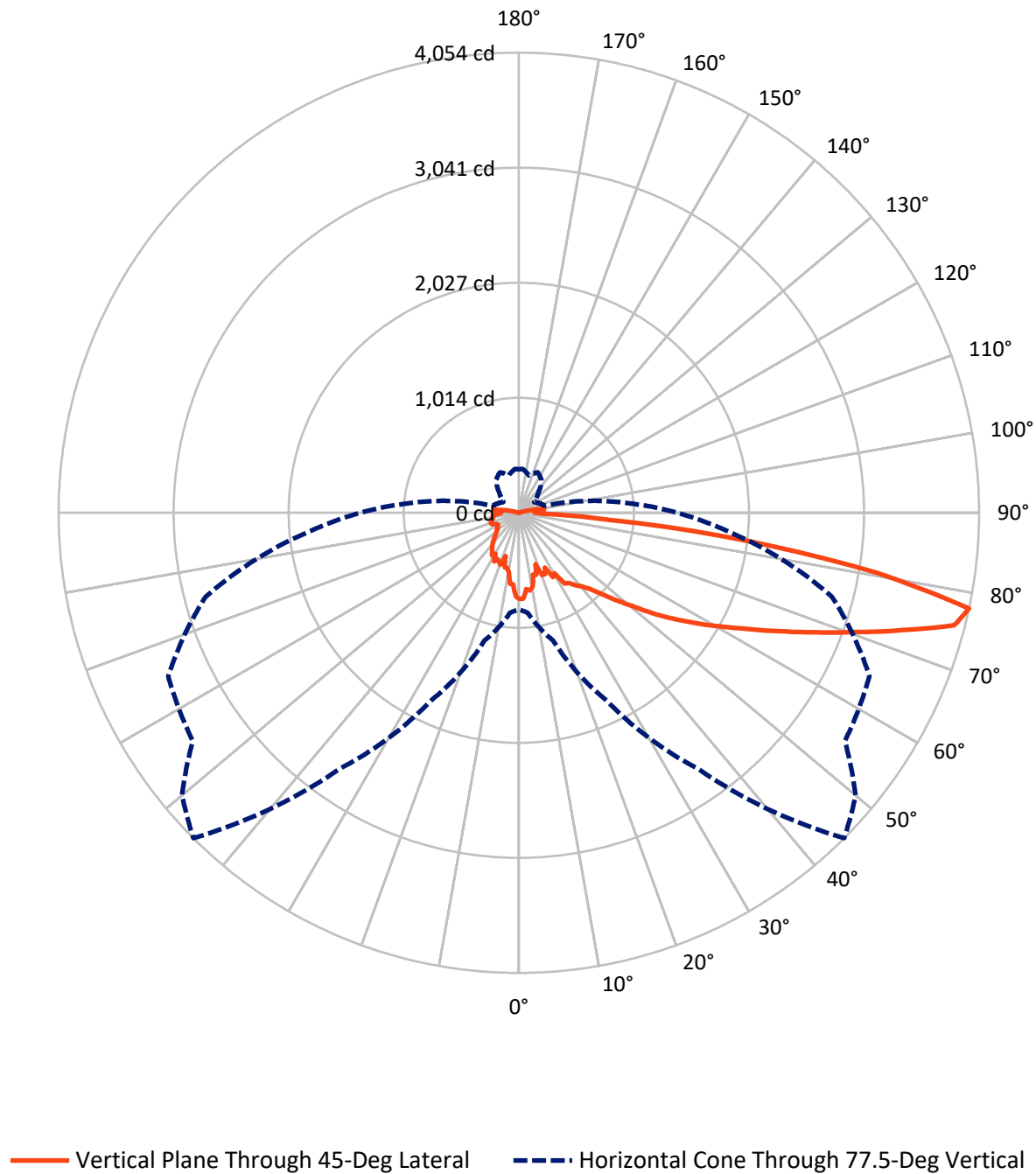


Based on 10 foot mounting height. Maximum calculated value = 7.6 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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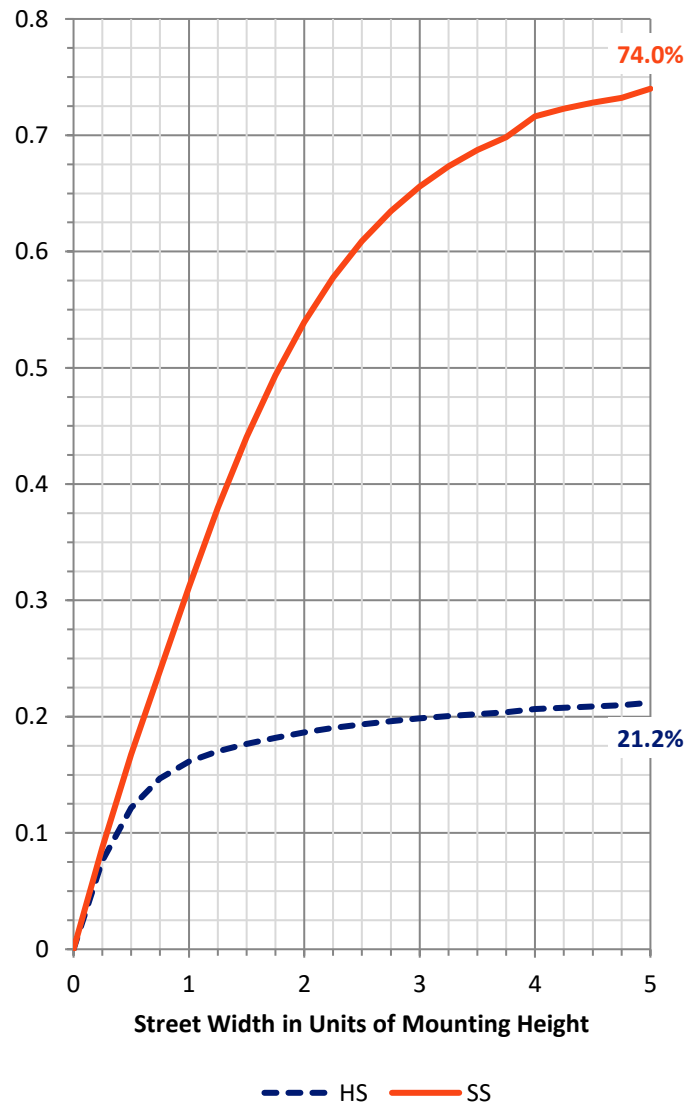
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1566.2	116.9	1683.1
	% Fixture	22.4	1.7	24.1
Street Side	Lumens	5220.0	94.6	5314.5
	% Fixture	74.6	1.4	75.9
Total	Lumens	6786.2	211.4	6997.6
	% Fixture	97.0	3.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	0.9
10°-20°	156.4	2.2
20°-30°	270.6	3.9
30°-40°	479.5	6.9
40°-50°	743.3	10.6
50°-60°	1196.6	17.1
60°-70°	1759.8	25.1
70°-80°	1694.3	24.2
80°-90°	422.5	6.0
90°-100°	157.6	2.3
100°-110°	34.9	0.5
110°-120°	7.5	0.1
120°-130°	6.3	0.1
130°-140°	2.7	0.0
140°-150°	1.2	0.0
150°-160°	1.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6786.2	97.0
0°-180°	6997.6	100.0



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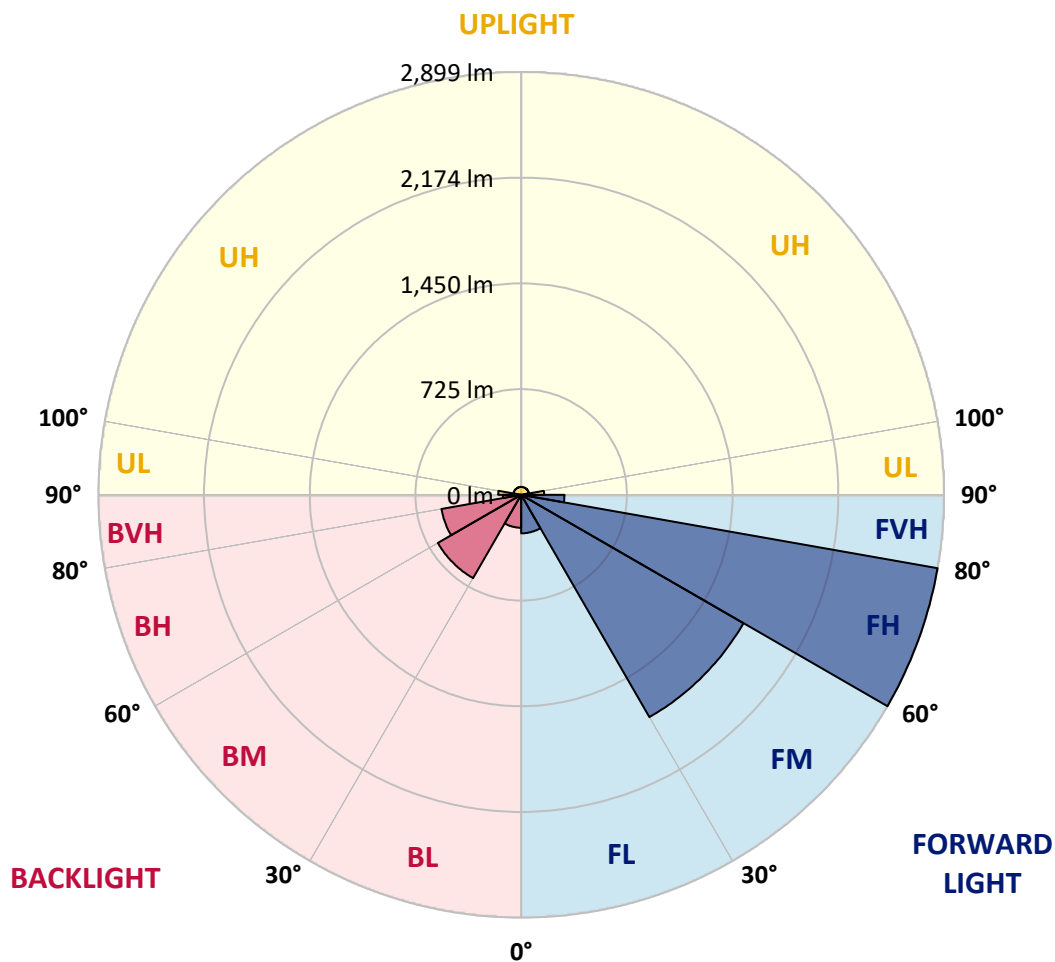
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	264.1	3.8			
FM	(30°-60°)	1760.0	25.2			
FH	(60°-80°)	2899.1	41.4			G2/5000
FVH	(80°-90°)	296.8	4.2			G3/500
BL	(0°-30°)	226.1	3.2	B1/500		
BM	(30°-60°)	659.4	9.4	B1/1000		
BH	(60°-80°)	555.0	7.9	B2/1000		G2/1000
BVH	(80°-90°)	125.7	1.8			G2/225
UL	(90°-100°)	157.6	2.3		U3/500	
UH	(100°-180°)	53.8	0.8		U3/500	

BUG Rating: B2-U3-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	759.7	759.7	759.7	759.7	759.7	759.7	759.7	759.7	759.7	759.7	759.7
2.5°	690.8	756.9	745.9	754.2	754.2	756.9	759.7	759.7	762.4	759.7	759.7
5°	704.6	701.9	696.4	690.8	685.3	677.1	677.1	677.1	743.1	748.6	743.1
7.5°	657.8	715.6	710.1	699.1	699.1	690.8	679.8	668.8	649.6	644.1	652.3
10°	743.1	740.4	732.1	715.6	655.1	666.1	597.3	539.5	517.4	531.2	567.0
12.5°	660.6	707.4	726.6	726.6	649.6	558.7	498.2	531.2	511.9	456.9	498.2
15°	778.9	773.4	751.4	715.6	569.7	567.0	534.0	467.9	476.2	517.4	556.0
17.5°	666.1	666.1	745.9	682.6	586.3	476.2	473.4	525.7	481.7	459.6	481.7
20°	803.7	800.9	776.2	567.0	591.8	583.5	481.7	536.7	459.6	528.5	578.0
22.5°	682.6	677.1	715.6	679.8	564.2	589.0	451.4	509.2	547.7	484.4	448.6
25°	803.7	809.2	798.2	605.5	641.3	534.0	545.0	580.8	503.7	613.8	638.6
27.5°	707.4	707.4	677.1	677.1	594.5	641.3	511.9	545.0	600.0	663.3	778.9
30°	867.0	869.8	850.5	652.3	657.8	616.5	594.5	633.0	721.1	861.5	913.8
32.5°	1059.7	1059.7	911.0	778.9	660.6	743.1	627.5	690.8	817.5	889.0	957.8
35°	1180.8	1167.0	1101.0	875.3	712.9	759.7	710.1	734.9	847.7	952.3	1001.9
37.5°	1354.2	1348.7	1282.6	960.6	765.2	809.2	737.6	765.2	902.8	999.1	1056.9
40°	1593.6	1566.1	1508.3	1109.2	828.5	853.2	770.7	803.7	968.8	1059.7	1128.5
42.5°	1783.5	1789.0	1747.8	1285.4	933.1	916.5	828.5	853.2	1040.4	1153.2	1230.3
45°	1959.7	1954.2	1962.4	1497.3	1062.4	1018.4	930.3	933.1	1131.2	1268.8	1373.4
47.5°	2080.8	2078.0	2097.3	1695.5	1227.6	1147.7	1043.2	1032.1	1235.8	1467.0	1568.9
50°	2226.7	2218.4	2207.4	1907.4	1414.7	1288.1	1191.8	1153.2	1370.7	1690.0	1816.6
52.5°	2405.6	2386.3	2350.5	2072.5	1621.2	1467.0	1359.7	1307.4	1552.3	1940.4	2102.8
55°	2576.2	2548.7	2518.4	2257.0	1811.1	1645.9	1530.3	1500.0	1789.0	2199.2	2408.3
57.5°	2744.1	2730.4	2705.6	2501.9	2053.3	1833.1	1703.7	1698.2	2064.3	2449.6	2735.9
60°	2901.0	2879.0	2912.0	2766.1	2279.0	2031.3	1893.6	1934.9	2367.0	2700.1	3099.2
62.5°	2997.3	2989.1	3060.6	3008.4	2488.2	2251.4	2111.1	2182.6	2658.8	2945.0	3421.2
65°	2854.2	2876.2	3159.7	3159.7	2730.4	2512.9	2375.3	2419.3	2934.0	3192.8	3715.7
67.5°	2592.7	2623.0	3008.4	3245.1	2947.8	2807.4	2664.3	2689.1	3179.0	3393.7	3955.2
70°	2369.8	2391.8	2749.6	3250.6	3085.4	3148.7	2942.3	2920.3	3368.9	3561.6	4043.2
72.5°	2174.4	2204.7	2499.2	3217.5	3220.3	3536.8	3272.6	3140.5	3542.3	3624.9	3762.5
75°	1723.0	1709.2	2042.3	2829.4	3264.3	3960.7	3660.7	3385.4	3627.6	3407.4	2950.6
77.5°	847.7	883.5	1164.3	1822.1	2755.1	4054.3	3872.6	3506.5	3407.4	2854.2	1841.3
80°	250.5	258.7	324.8	652.3	1582.6	3192.8	3198.3	2901.0	2562.5	1667.9	831.2
82.5°	140.4	143.1	187.2	283.5	649.6	2023.0	2105.6	1742.3	1134.0	616.5	415.6
85°	74.3	77.1	96.3	148.6	330.3	806.4	856.0	666.1	547.7	401.8	305.5
87.5°	35.8	35.8	33.0	49.5	121.1	195.4	217.4	247.7	220.2	206.4	253.2
90°	30.3	30.3	24.8	27.5	66.1	140.4	170.6	189.9	173.4	189.9	278.0
92.5°	33.0	33.0	24.8	27.5	71.6	156.9	187.2	211.9	184.4	203.7	308.3
95°	30.3	33.0	22.0	24.8	71.6	192.7	225.7	231.2	189.9	222.9	330.3
97.5°	24.8	24.8	16.5	19.3	63.3	225.7	247.7	239.5	167.9	170.6	264.2
100°	19.3	19.3	11.0	16.5	44.0	181.7	211.9	200.9	110.1	27.5	66.1
102.5°	16.5	16.5	8.3	13.8	19.3	88.1	112.8	110.1	66.1	16.5	13.8
105°	16.5	16.5	8.3	11.0	11.0	24.8	38.5	49.5	27.5	8.3	13.8
107.5°	16.5	16.5	8.3	5.5	5.5	11.0	13.8	13.8	13.8	8.3	16.5
110°	19.3	19.3	5.5	5.5	5.5	5.5	5.5	5.5	5.5	8.3	16.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	16.5	16.5	5.5	5.5	2.8	5.5	5.5	5.5	5.5	8.3	16.5
115°	13.8	13.8	2.8	5.5	2.8	2.8	5.5	2.8	5.5	5.5	13.8
117.5°	13.8	11.0	2.8	2.8	2.8	2.8	2.8	2.8	5.5	8.3	16.5
120°	13.8	13.8	5.5	2.8	2.8	2.8	2.8	2.8	5.5	11.0	19.3
122.5°	13.8	13.8	5.5	2.8	0.0	2.8	2.8	2.8	5.5	11.0	22.0
125°	16.5	13.8	5.5	2.8	0.0	0.0	2.8	2.8	2.8	11.0	19.3
127.5°	13.8	11.0	5.5	2.8	0.0	0.0	2.8	2.8	2.8	8.3	16.5
130°	13.8	11.0	5.5	0.0	0.0	0.0	2.8	2.8	2.8	8.3	13.8
132.5°	11.0	8.3	5.5	0.0	0.0	0.0	2.8	2.8	2.8	5.5	11.0
135°	8.3	8.3	2.8	0.0	2.8	0.0	2.8	2.8	2.8	2.8	8.3
137.5°	5.5	5.5	2.8	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8
140°	2.8	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8
142.5°	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8
145°	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8	2.8
147.5°	2.8	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
150°	8.3	8.3	8.3	5.5	2.8	2.8	2.8	5.5	2.8	2.8	2.8
152.5°	8.3	8.3	8.3	5.5	0.0	0.0	2.8	2.8	5.5	2.8	2.8
155°	5.5	5.5	5.5	0.0	0.0	0.0	2.8	2.8	2.8	5.5	5.5
157.5°	2.8	2.8	2.8	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8
160°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	2.8
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°	759.7	759.7	759.7	759.7	759.7	759.7	759.7	759.7	759.7	759.7	759.7
2.5°	756.9	754.2	751.4	748.6	743.1	737.6	723.9	666.1	666.1	668.8	668.8
5°	743.1	740.4	732.1	679.8	649.6	633.0	638.6	638.6	638.6	641.3	646.8
7.5°	649.6	646.8	608.3	605.5	616.5	630.3	638.6	624.8	597.3	597.3	597.3
10°	567.0	564.2	495.4	481.7	495.4	528.5	613.8	630.3	641.3	644.1	649.6
12.5°	495.4	487.2	426.6	470.7	440.4	495.4	572.5	635.8	578.0	567.0	567.0
15°	550.5	547.7	476.2	412.9	415.6	495.4	454.1	597.3	630.3	635.8	638.6
17.5°	481.7	476.2	437.6	434.9	459.6	399.1	503.7	569.7	542.2	550.5	550.5
20°	575.2	572.5	500.9	415.6	410.1	487.2	445.9	517.4	616.5	635.8	638.6
22.5°	445.9	445.9	459.6	487.2	443.1	465.2	476.2	547.7	528.5	539.5	572.5
25°	633.0	627.5	556.0	437.6	476.2	448.6	498.2	520.2	611.0	633.0	638.6
27.5°	767.9	754.2	597.3	492.7	429.4	481.7	478.9	503.7	517.4	602.8	613.8
30°	905.5	891.8	767.9	553.2	445.9	415.6	456.9	539.5	622.0	635.8	646.8
32.5°	955.1	944.1	784.4	586.3	448.6	443.1	454.1	539.5	682.6	737.6	748.6
35°	1007.4	993.6	800.9	572.5	437.6	412.9	429.4	556.0	679.8	715.6	723.9
37.5°	1070.7	1045.9	820.2	545.0	407.4	390.8	410.1	506.4	646.8	682.6	688.1
40°	1150.5	1125.7	845.0	514.7	377.1	363.3	374.3	470.7	567.0	597.3	611.0
42.5°	1271.6	1224.8	856.0	489.9	349.6	335.8	346.8	423.9	498.2	517.4	525.7
45°	1428.5	1345.9	872.5	456.9	324.8	305.5	322.0	388.1	423.9	423.9	423.9
47.5°	1621.2	1489.0	880.8	429.4	294.5	278.0	294.5	352.3	371.6	360.6	357.8
50°	1857.9	1670.7	922.0	396.3	269.7	256.0	283.5	311.0	319.3	324.8	324.8
52.5°	2135.8	1879.9	946.8	363.3	253.2	245.0	272.5	291.8	294.5	300.0	300.0
55°	2438.6	2108.3	960.6	333.0	242.2	231.2	261.5	280.7	280.7	286.2	286.2
57.5°	2752.4	2372.6	996.4	311.0	231.2	220.2	250.5	283.5	272.5	283.5	286.2
60°	3082.7	2617.5	966.1	289.0	214.7	211.9	253.2	302.8	300.0	313.8	316.5
62.5°	3393.7	2812.9	831.2	269.7	203.7	214.7	283.5	341.3	333.0	355.1	355.1
65°	3569.8	2879.0	611.0	258.7	195.4	231.2	313.8	379.8	352.3	363.3	357.8
67.5°	3608.4	2812.9	440.4	245.0	192.7	258.7	335.8	388.1	349.6	360.6	360.6
70°	3517.5	2658.8	355.1	234.0	189.9	261.5	341.3	388.1	352.3	377.1	371.6
72.5°	3107.4	2262.5	302.8	222.9	189.9	256.0	349.6	390.8	360.6	401.8	393.6
75°	2342.3	1692.7	267.0	211.9	178.9	247.7	355.1	393.6	349.6	393.6	388.1
77.5°	1392.7	966.1	236.7	198.2	165.1	239.5	349.6	393.6	341.3	388.1	382.6
80°	589.0	454.1	200.9	173.4	151.4	228.4	344.0	390.8	327.5	377.1	368.8
82.5°	371.6	308.3	170.6	143.1	148.6	225.7	346.8	385.3	322.0	379.8	352.3
85°	300.0	253.2	145.9	121.1	137.6	231.2	333.0	349.6	278.0	327.5	319.3
87.5°	253.2	211.9	66.1	52.3	101.8	178.9	253.2	261.5	200.9	256.0	245.0
90°	278.0	231.2	63.3	44.0	90.8	156.9	234.0	228.4	192.7	245.0	242.2
92.5°	302.8	245.0	60.6	46.8	101.8	170.6	256.0	231.2	203.7	247.7	245.0
95°	313.8	250.5	57.8	49.5	121.1	187.2	272.5	225.7	214.7	228.4	225.7
97.5°	236.7	181.7	55.0	52.3	126.6	211.9	256.0	189.9	140.4	140.4	137.6
100°	60.6	60.6	49.5	49.5	85.3	154.1	195.4	140.4	79.8	60.6	63.3
102.5°	16.5	19.3	44.0	46.8	46.8	68.8	110.1	90.8	52.3	8.3	8.3
105°	16.5	16.5	30.3	35.8	24.8	22.0	44.0	49.5	38.5	5.5	8.3
107.5°	16.5	16.5	13.8	19.3	8.3	11.0	11.0	13.8	13.8	5.5	5.5
110°	19.3	16.5	8.3	8.3	5.5	5.5	5.5	5.5	5.5	11.0	11.0

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CATALOG NUMBER: SDL-PA1-100-827-U-T4W-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	19.3	16.5	8.3	5.5	5.5	5.5	5.5	5.5	5.5	13.8	13.8
115°	16.5	13.8	8.3	5.5	5.5	5.5	5.5	2.8	5.5	16.5	16.5
117.5°	19.3	16.5	8.3	5.5	2.8	5.5	5.5	2.8	5.5	19.3	19.3
120°	22.0	19.3	8.3	5.5	2.8	2.8	2.8	2.8	8.3	19.3	19.3
122.5°	22.0	22.0	11.0	2.8	2.8	2.8	2.8	2.8	8.3	19.3	19.3
125°	22.0	19.3	8.3	2.8	2.8	2.8	0.0	2.8	8.3	19.3	22.0
127.5°	16.5	16.5	8.3	2.8	2.8	2.8	0.0	2.8	8.3	16.5	19.3
130°	13.8	13.8	5.5	2.8	2.8	2.8	0.0	2.8	8.3	16.5	16.5
132.5°	11.0	11.0	5.5	2.8	2.8	0.0	0.0	0.0	8.3	13.8	13.8
135°	8.3	8.3	2.8	2.8	2.8	0.0	0.0	0.0	5.5	11.0	11.0
137.5°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	2.8	5.5	5.5
140°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	2.8	2.8
142.5°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	2.8	2.8
145°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	2.8
147.5°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	2.8	2.8
150°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	2.8	5.5	2.8	5.5
152.5°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	2.8	5.5	5.5	5.5
155°	5.5	5.5	5.5	2.8	2.8	0.0	0.0	0.0	2.8	5.5	5.5
157.5°	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	2.8	2.8	2.8	2.8	0.0	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)