

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: P561162

Luminaire Tested: **SDL-PA1-80-827-U-T4W-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561162
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-PA1-80-827-U-T4W-A
Description: Springdale
(1) 80 CRI, 2700K, 1050mA 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: 6327.4 lumens
Efficiency: N/A
Efficacy: 77.2 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): 82
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

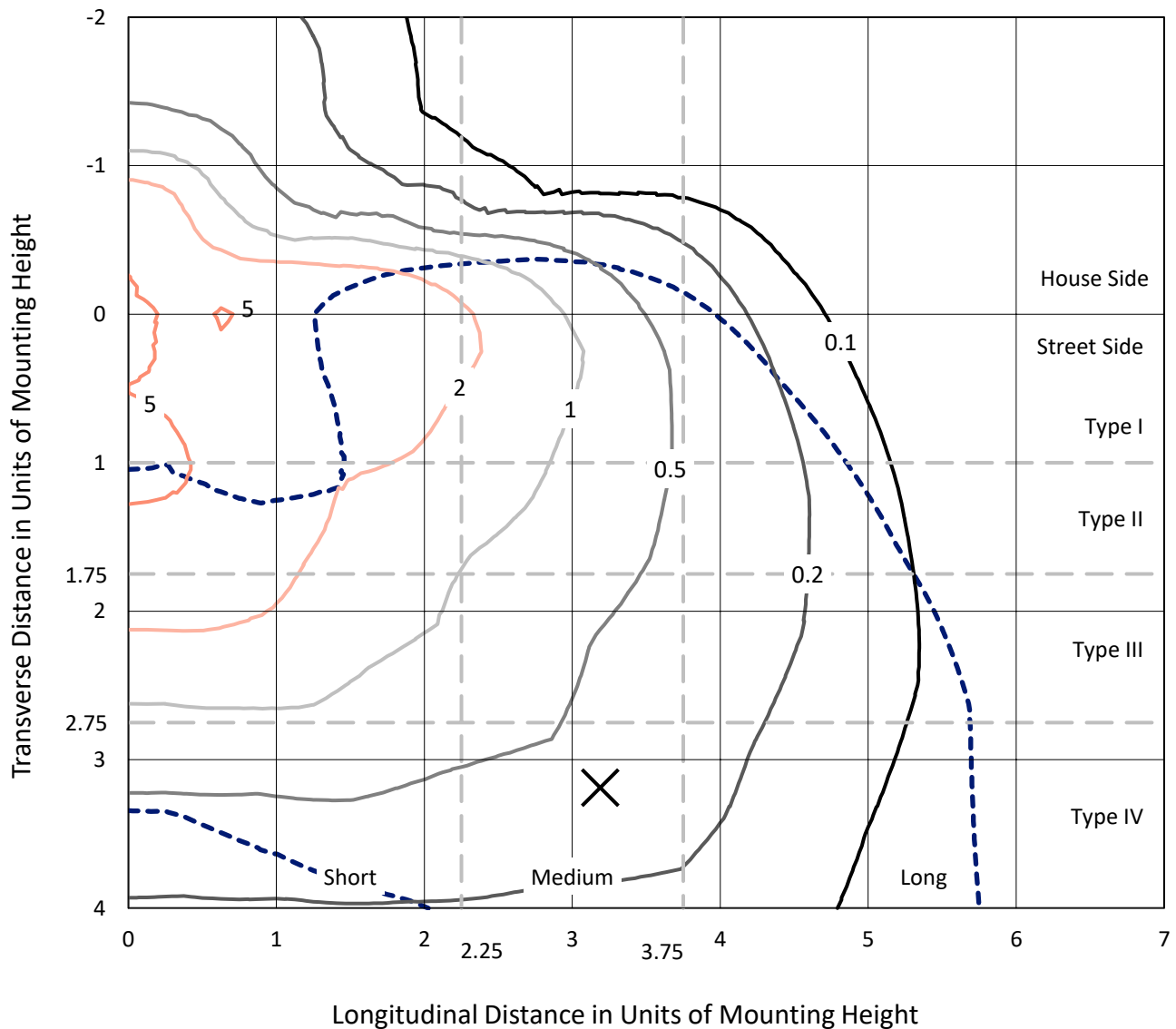


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

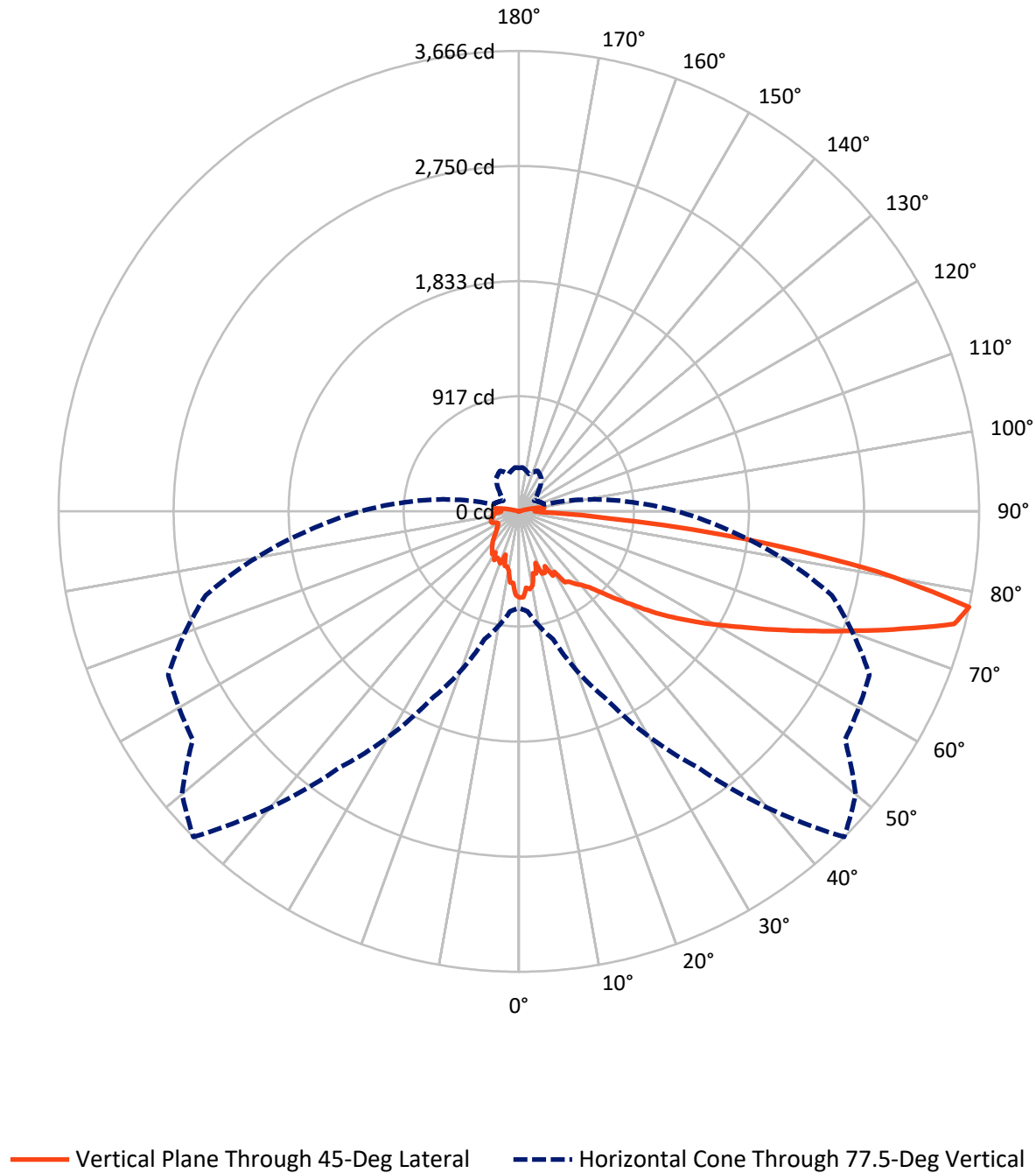


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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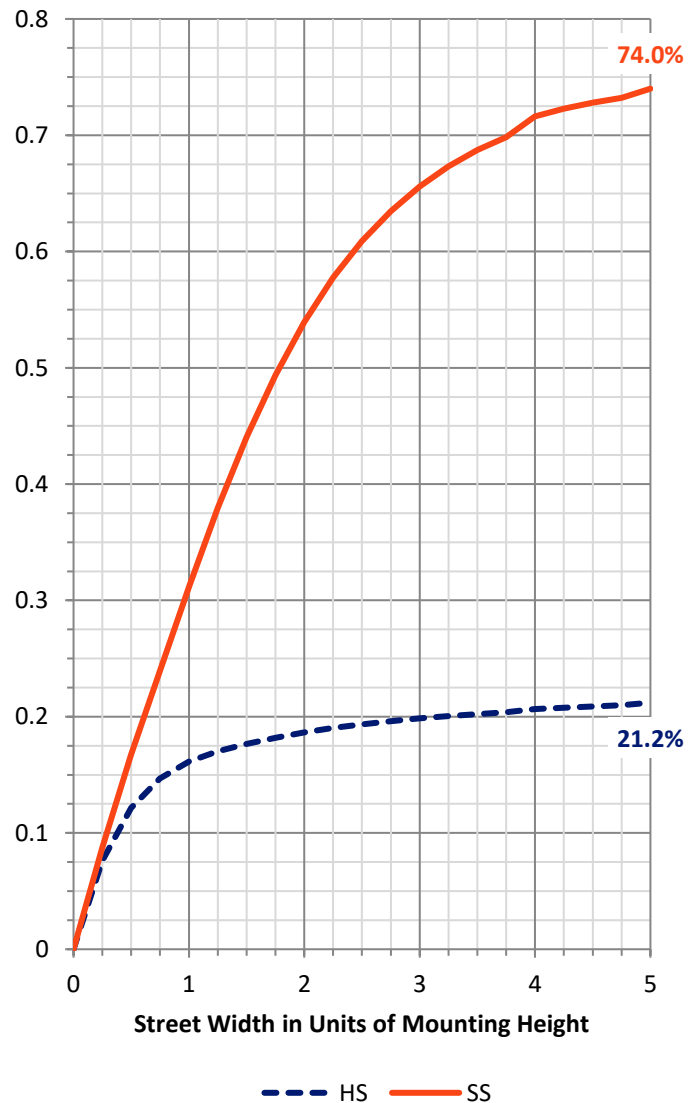
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1416.2	105.7	1521.9
	% Fixture	22.4	1.7	24.1
Street Side	Lumens	4720.1	85.5	4805.5
	% Fixture	74.6	1.4	75.9
Total	Lumens	6136.3	191.1	6327.4
	% Fixture	97.0	3.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	0.9
10°-20°	141.4	2.2
20°-30°	244.7	3.9
30°-40°	433.6	6.9
40°-50°	672.1	10.6
50°-60°	1082.0	17.1
60°-70°	1591.2	25.1
70°-80°	1532.0	24.2
80°-90°	382.1	6.0
90°-100°	142.5	2.3
100°-110°	31.5	0.5
110°-120°	6.8	0.1
120°-130°	5.7	0.1
130°-140°	2.5	0.0
140°-150°	1.0	0.0
150°-160°	1.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6136.3	97.0
0°-180°	6327.4	100.0



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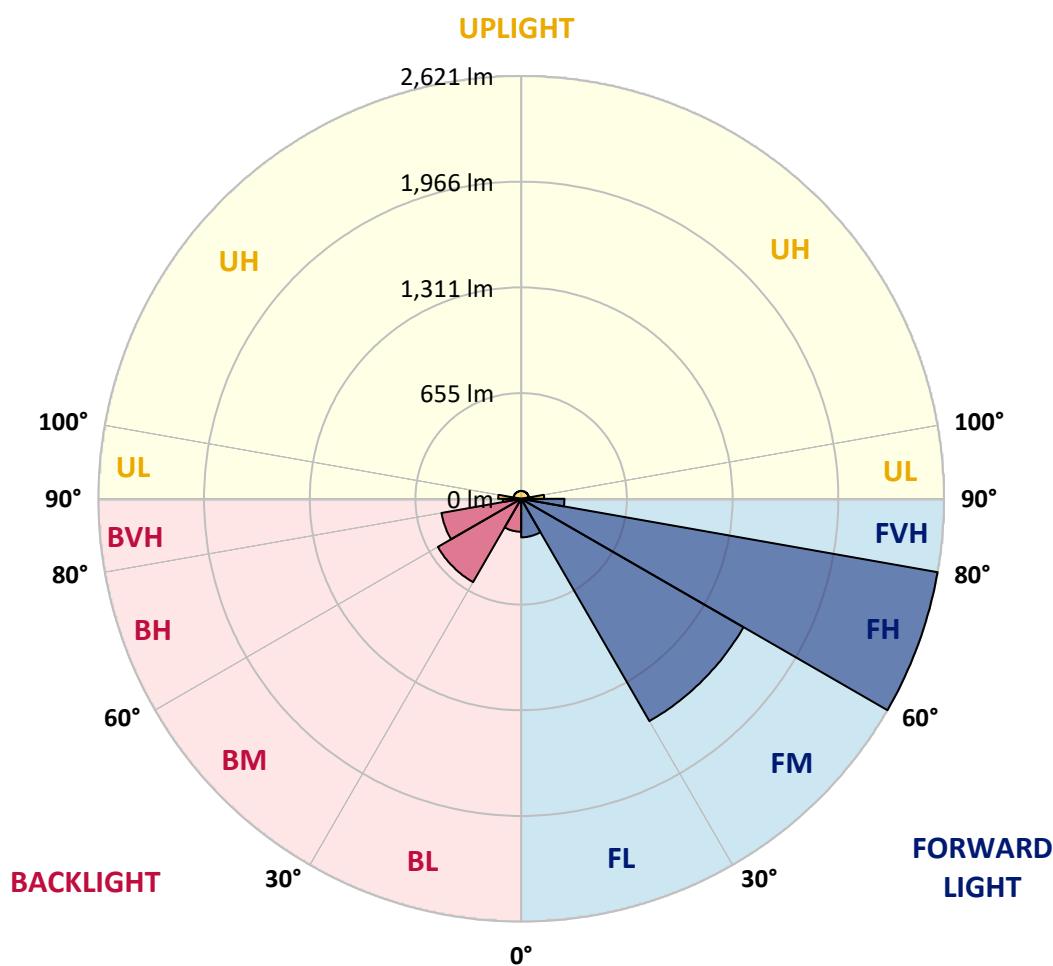
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	238.8	3.8			
FM	(30°-60°)	1591.4	25.2			
FH	(60°-80°)	2621.5	41.4			G2/5000
FVH	(80°-90°)	268.4	4.2			G3/500
BL	(0°-30°)	204.4	3.2	B1/500		
BM	(30°-60°)	596.3	9.4	B1/1000		
BH	(60°-80°)	501.8	7.9	B2/1000		G2/1000
BVH	(80°-90°)	113.7	1.8			G2/225
UL	(90°-100°)	142.5	2.3		U3/500	
UH	(100°-180°)	48.6	0.8		U2/50	

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°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
2.5°	624.7	684.4	674.5	681.9	681.9	684.4	686.9	686.9	689.4	686.9	686.9
5°	637.1	634.6	629.7	624.7	619.7	612.2	612.2	612.2	672.0	677.0	672.0
7.5°	594.8	647.1	642.1	632.2	632.2	624.7	614.7	604.8	587.4	582.4	589.8
10°	672.0	669.5	662.0	647.1	592.3	602.3	540.1	487.8	467.9	480.3	512.7
12.5°	597.3	639.6	657.0	657.0	587.4	505.2	450.5	480.3	462.9	413.1	450.5
15°	704.3	699.3	679.4	647.1	515.2	512.7	482.8	423.1	430.6	467.9	502.7
17.5°	602.3	602.3	674.5	617.2	530.1	430.6	428.1	475.4	435.5	415.6	435.5
20°	726.7	724.2	701.8	512.7	535.1	527.6	435.5	485.3	415.6	477.8	522.6
22.5°	617.2	612.2	647.1	614.7	510.2	532.6	408.2	460.4	495.3	438.0	405.7
25°	726.7	731.7	721.7	547.5	579.9	482.8	492.8	525.1	455.4	555.0	577.4
27.5°	639.6	639.6	612.2	612.2	537.6	579.9	462.9	492.8	542.6	599.8	704.3
30°	784.0	786.5	769.0	589.8	594.8	557.5	537.6	572.4	652.1	779.0	826.3
32.5°	958.2	958.2	823.8	704.3	597.3	672.0	567.4	624.7	739.2	803.9	866.1
35°	1067.7	1055.2	995.5	791.4	644.6	686.9	642.1	664.5	766.5	861.1	905.9
37.5°	1224.5	1219.5	1159.8	868.6	691.9	731.7	667.0	691.9	816.3	903.4	955.7
40°	1441.0	1416.1	1363.9	1003.0	749.1	771.5	696.9	726.7	876.1	958.2	1020.4
42.5°	1612.7	1617.7	1580.4	1162.3	843.7	828.8	749.1	771.5	940.8	1042.8	1112.5
45°	1772.0	1767.0	1774.5	1353.9	960.7	920.9	841.2	843.7	1022.9	1147.3	1241.9
47.5°	1881.5	1879.0	1896.5	1533.1	1110.0	1037.8	943.3	933.3	1117.5	1326.5	1418.6
50°	2013.4	2006.0	1996.0	1724.7	1279.2	1164.8	1077.6	1042.8	1239.4	1528.1	1642.6
52.5°	2175.2	2157.8	2125.4	1874.1	1465.9	1326.5	1229.5	1182.2	1403.7	1754.6	1901.4
55°	2329.5	2304.6	2277.2	2040.8	1637.6	1488.3	1383.8	1356.4	1617.7	1988.5	2177.7
57.5°	2481.3	2468.9	2446.5	2262.3	1856.6	1657.5	1540.6	1535.6	1866.6	2215.0	2473.9
60°	2623.2	2603.3	2633.1	2501.2	2060.7	1836.7	1712.3	1749.6	2140.4	2441.5	2802.4
62.5°	2710.3	2702.8	2767.5	2720.2	2249.9	2035.8	1908.9	1973.6	2404.2	2663.0	3093.6
65°	2580.9	2600.8	2857.1	2857.1	2468.9	2272.3	2147.8	2187.6	2653.0	2887.0	3359.9
67.5°	2344.4	2371.8	2720.2	2934.3	2665.5	2538.6	2409.1	2431.5	2874.5	3068.7	3576.4
70°	2142.8	2162.8	2486.3	2939.3	2789.9	2847.2	2660.5	2640.6	3046.3	3220.5	3656.0
72.5°	1966.1	1993.5	2259.8	2909.4	2911.9	3198.1	2959.2	2839.7	3203.1	3277.7	3402.2
75°	1558.0	1545.5	1846.7	2558.5	2951.7	3581.4	3310.1	3061.2	3280.2	3081.1	2668.0
77.5°	766.5	798.9	1052.8	1647.6	2491.3	3666.0	3501.7	3170.7	3081.1	2580.9	1665.0
80°	226.5	233.9	293.7	589.8	1431.1	2887.0	2892.0	2623.2	2317.1	1508.2	751.6
82.5°	126.9	129.4	169.2	256.3	587.4	1829.3	1903.9	1575.4	1025.4	557.5	375.8
85°	67.2	69.7	87.1	134.4	298.7	729.2	774.0	602.3	495.3	363.4	276.3
87.5°	32.4	32.4	29.9	44.8	109.5	176.7	196.6	224.0	199.1	186.7	229.0
90°	27.4	27.4	22.4	24.9	59.7	126.9	154.3	171.7	156.8	171.7	251.4
92.5°	29.9	29.9	22.4	24.9	64.7	141.9	169.2	191.6	166.7	184.2	278.7
95°	27.4	29.9	19.9	22.4	64.7	174.2	204.1	209.1	171.7	201.6	298.7
97.5°	22.4	22.4	14.9	17.4	57.2	204.1	224.0	216.5	151.8	154.3	238.9
100°	17.4	17.4	10.0	14.9	39.8	164.3	191.6	181.7	99.6	24.9	59.7
102.5°	14.9	14.9	7.5	12.4	17.4	79.6	102.0	99.6	59.7	14.9	12.4
105°	14.9	14.9	7.5	10.0	10.0	22.4	34.8	44.8	24.9	7.5	12.4
107.5°	14.9	14.9	7.5	5.0	5.0	10.0	12.4	12.4	12.4	7.5	14.9
110°	17.4	17.4	5.0	5.0	5.0	5.0	5.0	5.0	5.0	7.5	14.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	14.9	14.9	5.0	5.0	2.5	5.0	5.0	5.0	5.0	7.5	14.9
115°	12.4	12.4	2.5	5.0	2.5	2.5	5.0	2.5	5.0	5.0	12.4
117.5°	12.4	10.0	2.5	2.5	2.5	2.5	2.5	2.5	5.0	7.5	14.9
120°	12.4	12.4	5.0	2.5	2.5	2.5	2.5	2.5	5.0	10.0	17.4
122.5°	12.4	12.4	5.0	2.5	0.0	2.5	2.5	2.5	5.0	10.0	19.9
125°	14.9	12.4	5.0	2.5	0.0	0.0	2.5	2.5	2.5	10.0	17.4
127.5°	12.4	10.0	5.0	2.5	0.0	0.0	2.5	2.5	2.5	7.5	14.9
130°	12.4	10.0	5.0	0.0	0.0	0.0	2.5	2.5	2.5	7.5	12.4
132.5°	10.0	7.5	5.0	0.0	0.0	0.0	2.5	2.5	2.5	5.0	10.0
135°	7.5	7.5	2.5	0.0	2.5	0.0	2.5	2.5	2.5	2.5	7.5
137.5°	5.0	5.0	2.5	0.0	0.0	0.0	2.5	2.5	2.5	2.5	2.5
140°	2.5	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5	2.5
142.5°	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5
145°	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5
147.5°	2.5	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
150°	7.5	7.5	7.5	5.0	2.5	2.5	2.5	5.0	2.5	2.5	2.5
152.5°	7.5	7.5	7.5	5.0	0.0	0.0	2.5	2.5	5.0	2.5	2.5
155°	5.0	5.0	5.0	0.0	0.0	0.0	2.5	2.5	2.5	5.0	5.0
157.5°	2.5	2.5	2.5	0.0	0.0	0.0	2.5	2.5	2.5	2.5	2.5
160°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5	2.5
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°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
2.5°	684.4	681.9	679.4	677.0	672.0	667.0	654.6	602.3	602.3	604.8	604.8
5°	672.0	669.5	662.0	614.7	587.4	572.4	577.4	577.4	577.4	579.9	584.9
7.5°	587.4	584.9	550.0	547.5	557.5	569.9	577.4	565.0	540.1	540.1	540.1
10°	512.7	510.2	448.0	435.5	448.0	477.8	555.0	569.9	579.9	582.4	587.4
12.5°	448.0	440.5	385.8	425.6	398.2	448.0	517.7	574.9	522.6	512.7	512.7
15°	497.8	495.3	430.6	373.3	375.8	448.0	410.6	540.1	569.9	574.9	577.4
17.5°	435.5	430.6	395.7	393.2	415.6	360.9	455.4	515.2	490.3	497.8	497.8
20°	520.2	517.7	453.0	375.8	370.8	440.5	403.2	467.9	557.5	574.9	577.4
22.5°	403.2	403.2	415.6	440.5	400.7	420.6	430.6	495.3	477.8	487.8	517.7
25°	572.4	567.4	502.7	395.7	430.6	405.7	450.5	470.4	552.5	572.4	577.4
27.5°	694.4	681.9	540.1	445.5	388.3	435.5	433.0	455.4	467.9	545.0	555.0
30°	818.8	806.4	694.4	500.2	403.2	375.8	413.1	487.8	562.5	574.9	584.9
32.5°	863.6	853.7	709.3	530.1	405.7	400.7	410.6	487.8	617.2	667.0	677.0
35°	910.9	898.5	724.2	517.7	395.7	373.3	388.3	502.7	614.7	647.1	654.6
37.5°	968.1	945.7	741.7	492.8	368.3	353.4	370.8	457.9	584.9	617.2	622.2
40°	1040.3	1017.9	764.1	465.4	341.0	328.5	338.5	425.6	512.7	540.1	552.5
42.5°	1149.8	1107.5	774.0	443.0	316.1	303.6	313.6	383.3	450.5	467.9	475.4
45°	1291.7	1217.0	788.9	413.1	293.7	276.3	291.2	350.9	383.3	383.3	383.3
47.5°	1465.9	1346.4	796.4	388.3	266.3	251.4	266.3	318.6	336.0	326.0	323.5
50°	1679.9	1510.7	833.7	358.4	243.9	231.5	256.3	281.2	288.7	293.7	293.7
52.5°	1931.3	1699.8	856.1	328.5	229.0	221.5	246.4	263.8	266.3	271.3	271.3
55°	2205.1	1906.4	868.6	301.1	219.0	209.1	236.4	253.9	253.9	258.8	258.8
57.5°	2488.8	2145.3	900.9	281.2	209.1	199.1	226.5	256.3	246.4	256.3	258.8
60°	2787.4	2366.8	873.6	261.3	194.1	191.6	229.0	273.8	271.3	283.7	286.2
62.5°	3068.7	2543.5	751.6	243.9	184.2	194.1	256.3	308.6	301.1	321.1	321.1
65°	3228.0	2603.3	552.5	233.9	176.7	209.1	283.7	343.5	318.6	328.5	323.5
67.5°	3262.8	2543.5	398.2	221.5	174.2	233.9	303.6	350.9	316.1	326.0	326.0
70°	3180.7	2404.2	321.1	211.5	171.7	236.4	308.6	350.9	318.6	341.0	336.0
72.5°	2809.8	2045.8	273.8	201.6	171.7	231.5	316.1	353.4	326.0	363.4	355.9
75°	2118.0	1530.6	241.4	191.6	161.8	224.0	321.1	355.9	316.1	355.9	350.9
77.5°	1259.3	873.6	214.0	179.2	149.3	216.5	316.1	355.9	308.6	350.9	345.9
80°	532.6	410.6	181.7	156.8	136.9	206.6	311.1	353.4	296.2	341.0	333.5
82.5°	336.0	278.7	154.3	129.4	134.4	204.1	313.6	348.4	291.2	343.5	318.6
85°	271.3	229.0	131.9	109.5	124.4	209.1	301.1	316.1	251.4	296.2	288.7
87.5°	229.0	191.6	59.7	47.3	92.1	161.8	229.0	236.4	181.7	231.5	221.5
90°	251.4	209.1	57.2	39.8	82.1	141.9	211.5	206.6	174.2	221.5	219.0
92.5°	273.8	221.5	54.8	42.3	92.1	154.3	231.5	209.1	184.2	224.0	221.5
95°	283.7	226.5	52.3	44.8	109.5	169.2	246.4	204.1	194.1	206.6	204.1
97.5°	214.0	164.3	49.8	47.3	114.5	191.6	231.5	171.7	126.9	126.9	124.4
100°	54.8	54.8	44.8	44.8	77.2	139.4	176.7	126.9	72.2	54.8	57.2
102.5°	14.9	17.4	39.8	42.3	42.3	62.2	99.6	82.1	47.3	7.5	7.5
105°	14.9	14.9	27.4	32.4	22.4	19.9	39.8	44.8	34.8	5.0	7.5
107.5°	14.9	14.9	12.4	17.4	7.5	10.0	10.0	12.4	12.4	5.0	5.0
110°	17.4	14.9	7.5	7.5	5.0	5.0	5.0	5.0	5.0	10.0	10.0



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CATALOG NUMBER: SDL-PA1-80-827-U-T4W-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	17.4	14.9	7.5	5.0	5.0	5.0	5.0	5.0	5.0	12.4	12.4
115°	14.9	12.4	7.5	5.0	5.0	5.0	5.0	2.5	5.0	14.9	14.9
117.5°	17.4	14.9	7.5	5.0	2.5	5.0	5.0	2.5	5.0	17.4	17.4
120°	19.9	17.4	7.5	5.0	2.5	2.5	2.5	2.5	7.5	17.4	17.4
122.5°	19.9	19.9	10.0	2.5	2.5	2.5	2.5	2.5	7.5	17.4	17.4
125°	19.9	17.4	7.5	2.5	2.5	2.5	0.0	2.5	7.5	17.4	19.9
127.5°	14.9	14.9	7.5	2.5	2.5	2.5	0.0	2.5	7.5	14.9	17.4
130°	12.4	12.4	5.0	2.5	2.5	2.5	0.0	2.5	7.5	14.9	14.9
132.5°	10.0	10.0	5.0	2.5	2.5	0.0	0.0	0.0	7.5	12.4	12.4
135°	7.5	7.5	2.5	2.5	2.5	0.0	0.0	0.0	5.0	10.0	10.0
137.5°	2.5	2.5	2.5	2.5	2.5	0.0	0.0	0.0	2.5	5.0	5.0
140°	2.5	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	2.5	2.5
142.5°	2.5	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	2.5	2.5
145°	2.5	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	2.5
147.5°	2.5	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	2.5	2.5
150°	2.5	2.5	2.5	2.5	2.5	0.0	0.0	2.5	5.0	2.5	5.0
152.5°	2.5	2.5	2.5	2.5	2.5	0.0	0.0	2.5	5.0	5.0	5.0
155°	5.0	5.0	5.0	2.5	2.5	0.0	0.0	0.0	2.5	5.0	5.0
157.5°	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	2.5	2.5	2.5	2.5	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)