

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: P561360

Luminaire Tested: **SDL-PA1-90-830-U-T4W-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561360
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-PA1-90-830-U-T4W-A
Description: Springdale
(1) 80 CRI, 3000K, 1180mA 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: 7495.2 lumens
Efficiency: N/A
Efficacy: 81.1 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): 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

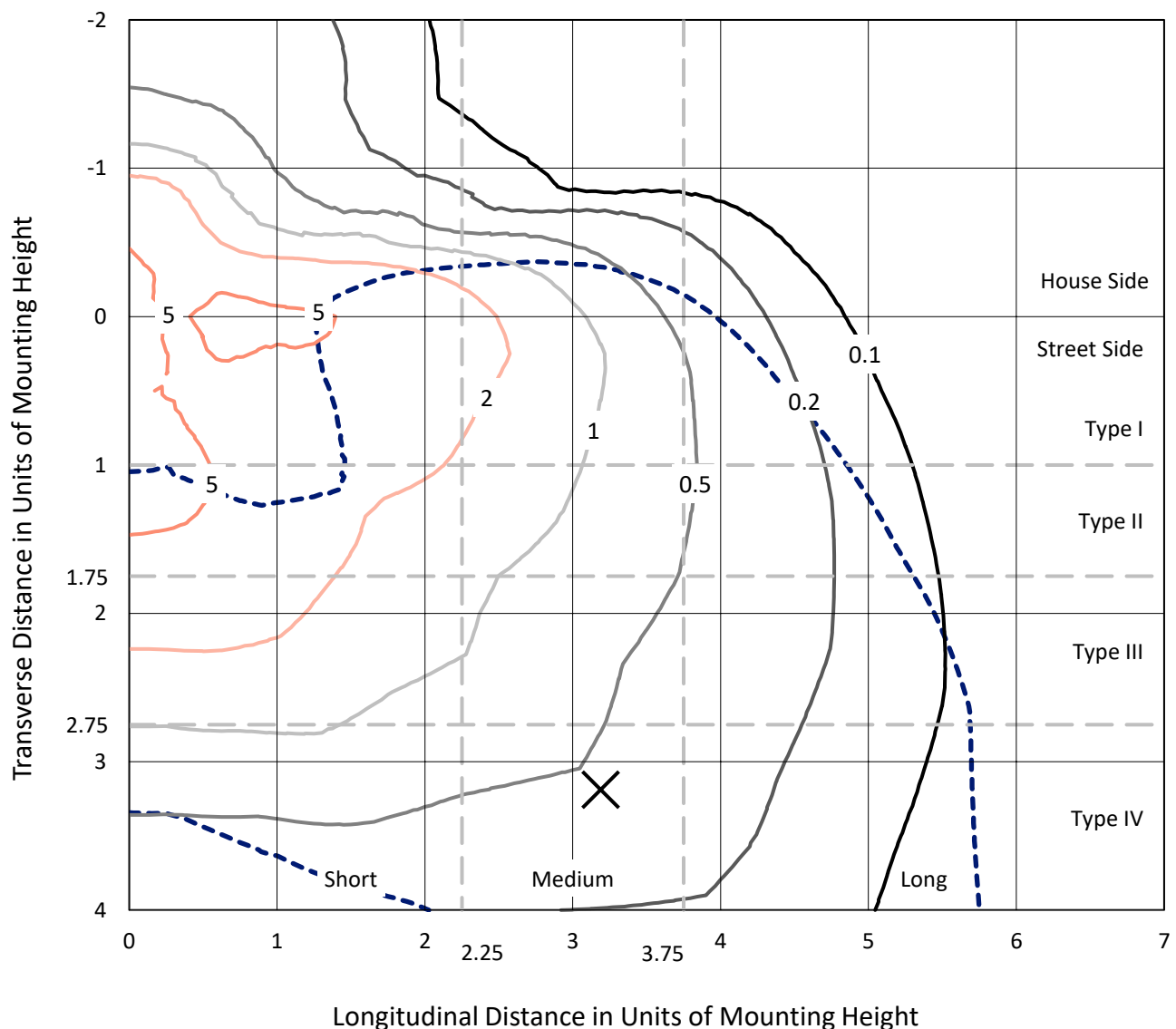


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

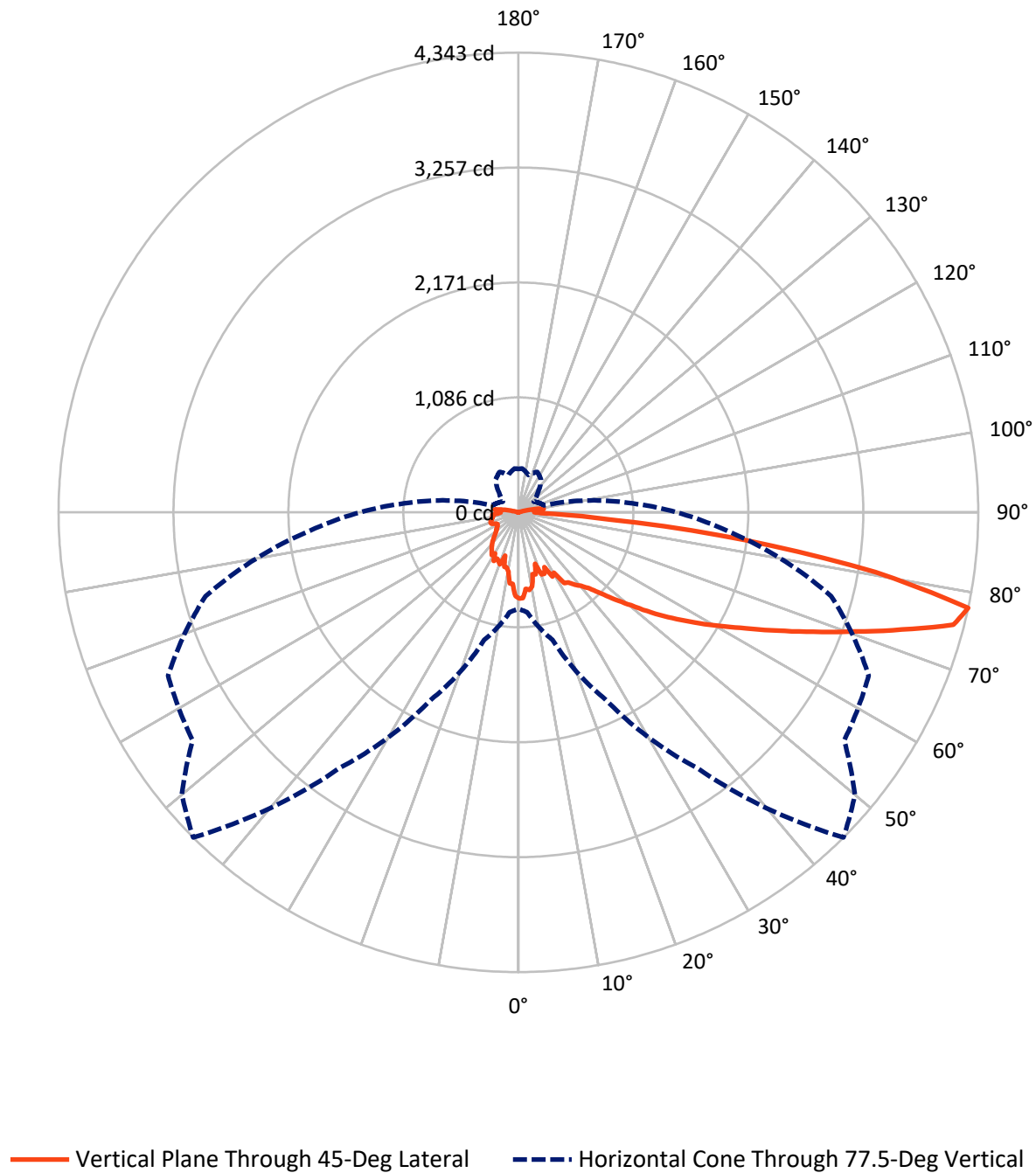


Based on 10 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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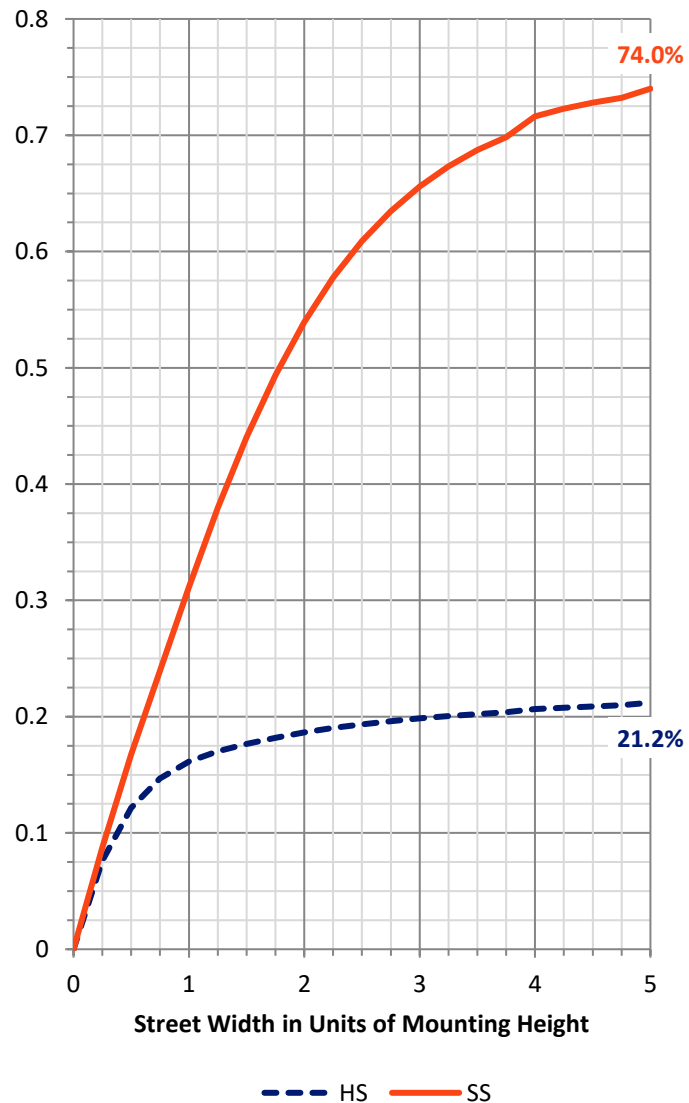
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1677.6	125.1	1802.7
	% Fixture	22.4	1.7	24.1
Street Side	Lumens	5591.3	101.2	5692.5
	% Fixture	74.6	1.3	75.9
Total	Lumens	7268.9	226.3	7495.2
	% Fixture	97.0	3.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	0.9
10°-20°	167.6	2.2
20°-30°	289.9	3.9
30°-40°	513.6	6.9
40°-50°	796.2	10.6
50°-60°	1281.8	17.1
60°-70°	1884.9	25.1
70°-80°	1814.8	24.2
80°-90°	452.6	6.0
90°-100°	168.8	2.3
100°-110°	37.4	0.5
110°-120°	8.0	0.1
120°-130°	6.7	0.1
130°-140°	2.9	0.0
140°-150°	1.2	0.0
150°-160°	1.3	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	7268.9	97.0
0°-180°	7495.2	100.0

Coefficient of Utilization



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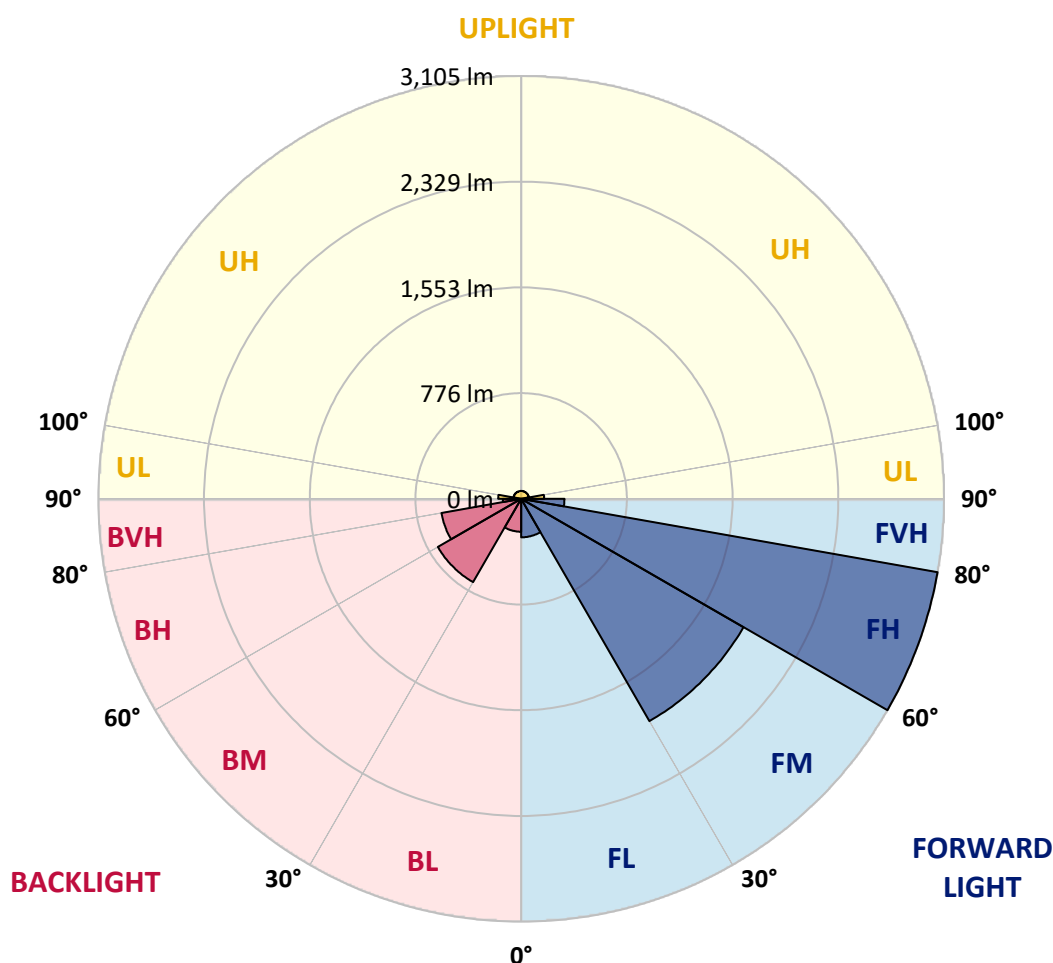
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	282.9	3.8			
FM	(30°-60°)	1885.2	25.2			
FH	(60°-80°)	3105.3	41.4			G2/5000
FVH	(80°-90°)	317.9	4.2			G3/500
BL	(0°-30°)	242.1	3.2	B1/500		
BM	(30°-60°)	706.4	9.4	B1/1000		
BH	(60°-80°)	594.4	7.9	B2/1000		G2/1000
BVH	(80°-90°)	134.7	1.8			G2/225
UL	(90°-100°)	168.8	2.3		U3/500	
UH	(100°-180°)	57.5	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°	813.7	813.7	813.7	813.7	813.7	813.7	813.7	813.7	813.7	813.7	813.7
2.5°	740.0	810.7	799.0	807.8	807.8	810.7	813.7	813.7	816.6	813.7	813.7
5°	754.7	751.8	745.9	740.0	734.1	725.3	725.3	725.3	796.0	801.9	796.0
7.5°	704.6	766.5	760.6	748.8	748.8	740.0	728.2	716.4	695.8	689.9	698.7
10°	796.0	793.1	784.2	766.5	701.7	713.5	639.8	577.8	554.3	569.0	607.3
12.5°	707.6	757.7	778.3	778.3	695.8	598.5	533.6	569.0	548.4	489.4	533.6
15°	834.3	828.4	804.9	766.5	610.3	607.3	571.9	501.2	510.0	554.3	595.5
17.5°	713.5	713.5	799.0	731.1	628.0	510.0	507.1	563.1	515.9	492.3	515.9
20°	860.9	857.9	831.4	607.3	633.9	625.0	515.9	574.9	492.3	566.0	619.1
22.5°	731.1	725.3	766.5	728.2	604.4	630.9	483.5	545.4	586.7	518.9	480.6
25°	860.9	866.8	855.0	648.6	686.9	571.9	583.7	622.1	539.5	657.4	684.0
27.5°	757.7	757.7	725.3	725.3	636.8	686.9	548.4	583.7	642.7	710.5	834.3
30°	928.7	931.6	911.0	698.7	704.6	660.4	636.8	678.1	772.4	922.8	978.8
32.5°	1135.0	1135.0	975.8	834.3	707.6	796.0	672.2	740.0	875.6	952.3	1026.0
35°	1264.8	1250.0	1179.3	937.5	763.6	813.7	760.6	787.2	908.0	1020.1	1073.1
37.5°	1450.5	1444.6	1373.9	1028.9	819.6	866.8	790.1	819.6	967.0	1070.2	1132.1
40°	1707.0	1677.5	1615.6	1188.1	887.4	913.9	825.5	860.9	1037.8	1135.0	1208.8
42.5°	1910.4	1916.3	1872.1	1376.8	999.4	981.7	887.4	913.9	1114.4	1235.3	1317.8
45°	2099.1	2093.2	2102.0	1603.8	1138.0	1090.8	996.5	999.4	1211.7	1359.1	1471.1
47.5°	2228.8	2225.9	2246.5	1816.1	1314.9	1229.4	1117.4	1105.6	1323.7	1571.4	1680.5
50°	2385.1	2376.2	2364.4	2043.1	1515.4	1379.7	1276.6	1235.3	1468.2	1810.2	1945.8
52.5°	2576.7	2556.1	2517.7	2220.0	1736.5	1571.4	1456.4	1400.4	1662.8	2078.5	2252.4
55°	2759.5	2730.0	2697.6	2417.5	1939.9	1763.0	1639.2	1606.8	1916.3	2355.6	2579.7
57.5°	2939.3	2924.6	2898.1	2679.9	2199.3	1963.5	1824.9	1819.0	2211.1	2623.9	2930.5
60°	3107.4	3083.8	3119.2	2962.9	2441.1	2175.8	2028.3	2072.6	2535.4	2892.2	3319.6
62.5°	3210.6	3201.7	3278.4	3222.4	2665.2	2411.6	2261.3	2337.9	2847.9	3154.5	3664.6
65°	3057.3	3080.8	3384.5	3384.5	2924.6	2691.7	2544.3	2591.4	3142.8	3419.9	3980.0
67.5°	2777.2	2809.6	3222.4	3475.9	3157.5	3007.1	2853.8	2880.4	3405.1	3635.1	4236.5
70°	2538.4	2562.0	2945.2	3481.8	3304.9	3372.7	3151.6	3128.0	3608.6	3814.9	4330.9
72.5°	2329.1	2361.5	2676.9	3446.4	3449.4	3788.4	3505.4	3363.9	3794.3	3882.7	4030.2
75°	1845.6	1830.8	2187.5	3030.7	3496.5	4242.4	3921.1	3626.3	3885.7	3649.8	3160.4
77.5°	908.0	946.4	1247.1	1951.7	2951.1	4342.7	4148.1	3756.0	3649.8	3057.3	1972.3
80°	268.3	277.1	347.9	698.7	1695.2	3419.9	3425.8	3107.4	2744.8	1786.6	890.3
82.5°	150.4	153.3	200.5	303.7	695.8	2166.9	2255.4	1866.2	1214.6	660.4	445.2
85°	79.6	82.5	103.2	159.2	353.8	863.8	916.9	713.5	586.7	430.4	327.2
87.5°	38.3	38.3	35.4	53.1	129.7	209.3	232.9	265.3	235.9	221.1	271.2
90°	32.4	32.4	26.5	29.5	70.8	150.4	182.8	203.4	185.7	203.4	297.8
92.5°	35.4	35.4	26.5	29.5	76.7	168.0	200.5	227.0	197.5	218.2	330.2
95°	32.4	35.4	23.6	26.5	76.7	206.4	241.8	247.6	203.4	238.8	353.8
97.5°	26.5	26.5	17.7	20.6	67.8	241.8	265.3	256.5	179.8	182.8	283.0
100°	20.6	20.6	11.8	17.7	47.2	194.6	227.0	215.2	117.9	29.5	70.8
102.5°	17.7	17.7	8.8	14.7	20.6	94.3	120.9	117.9	70.8	17.7	14.7
105°	17.7	17.7	8.8	11.8	11.8	26.5	41.3	53.1	29.5	8.8	14.7
107.5°	17.7	17.7	8.8	5.9	5.9	11.8	14.7	14.7	14.7	8.8	17.7
110°	20.6	20.6	5.9	5.9	5.9	5.9	5.9	5.9	5.9	8.8	17.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	17.7	17.7	5.9	5.9	2.9	5.9	5.9	5.9	5.9	8.8	17.7
115°	14.7	14.7	2.9	5.9	2.9	2.9	5.9	2.9	5.9	5.9	14.7
117.5°	14.7	11.8	2.9	2.9	2.9	2.9	2.9	2.9	5.9	8.8	17.7
120°	14.7	14.7	5.9	2.9	2.9	2.9	2.9	2.9	5.9	11.8	20.6
122.5°	14.7	14.7	5.9	2.9	0.0	2.9	2.9	2.9	5.9	11.8	23.6
125°	17.7	14.7	5.9	2.9	0.0	0.0	2.9	2.9	2.9	11.8	20.6
127.5°	14.7	11.8	5.9	2.9	0.0	0.0	2.9	2.9	2.9	8.8	17.7
130°	14.7	11.8	5.9	0.0	0.0	0.0	2.9	2.9	2.9	8.8	14.7
132.5°	11.8	8.8	5.9	0.0	0.0	0.0	2.9	2.9	2.9	5.9	11.8
135°	8.8	8.8	2.9	0.0	2.9	0.0	2.9	2.9	2.9	2.9	8.8
137.5°	5.9	5.9	2.9	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9
140°	2.9	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9
142.5°	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9	2.9
145°	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9
147.5°	2.9	0.0	0.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
150°	8.8	8.8	8.8	5.9	2.9	2.9	2.9	5.9	2.9	2.9	2.9
152.5°	8.8	8.8	8.8	5.9	0.0	0.0	2.9	2.9	5.9	2.9	2.9
155°	5.9	5.9	5.9	0.0	0.0	0.0	2.9	2.9	2.9	5.9	5.9
157.5°	2.9	2.9	2.9	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9
160°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9
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°	813.7	813.7	813.7	813.7	813.7	813.7	813.7	813.7	813.7	813.7	813.7
2.5°	810.7	807.8	804.9	801.9	796.0	790.1	775.4	713.5	713.5	716.4	716.4
5°	796.0	793.1	784.2	728.2	695.8	678.1	684.0	684.0	684.0	686.9	692.8
7.5°	695.8	692.8	651.5	648.6	660.4	675.1	684.0	669.2	639.8	639.8	639.8
10°	607.3	604.4	530.7	515.9	530.7	566.0	657.4	675.1	686.9	689.9	695.8
12.5°	530.7	521.8	457.0	504.1	471.7	530.7	613.2	681.0	619.1	607.3	607.3
15°	589.6	586.7	510.0	442.2	445.2	530.7	486.4	639.8	675.1	681.0	684.0
17.5°	515.9	510.0	468.8	465.8	492.3	427.5	539.5	610.3	580.8	589.6	589.6
20°	616.2	613.2	536.6	445.2	439.3	521.8	477.6	554.3	660.4	681.0	684.0
22.5°	477.6	477.6	492.3	521.8	474.7	498.2	510.0	586.7	566.0	577.8	613.2
25°	678.1	672.2	595.5	468.8	510.0	480.6	533.6	557.2	654.5	678.1	684.0
27.5°	822.5	807.8	639.8	527.7	459.9	515.9	513.0	539.5	554.3	645.7	657.4
30°	969.9	955.2	822.5	592.6	477.6	445.2	489.4	577.8	666.3	681.0	692.8
32.5°	1023.0	1011.2	840.2	628.0	480.6	474.7	486.4	577.8	731.1	790.1	801.9
35°	1079.0	1064.3	857.9	613.2	468.8	442.2	459.9	595.5	728.2	766.5	775.4
37.5°	1146.8	1120.3	878.6	583.7	436.3	418.6	439.3	542.5	692.8	731.1	737.0
40°	1232.3	1205.8	905.1	551.3	403.9	389.2	401.0	504.1	607.3	639.8	654.5
42.5°	1362.1	1311.9	916.9	524.8	374.4	359.7	371.5	454.0	533.6	554.3	563.1
45°	1530.1	1441.7	934.6	489.4	347.9	327.2	344.9	415.7	454.0	454.0	454.0
47.5°	1736.5	1595.0	943.4	459.9	315.5	297.8	315.5	377.4	398.0	386.2	383.3
50°	1990.0	1789.5	987.6	424.5	288.9	274.2	303.7	333.1	342.0	347.9	347.9
52.5°	2287.8	2013.6	1014.2	389.2	271.2	262.4	291.9	312.5	315.5	321.4	321.4
55°	2612.1	2258.3	1028.9	356.7	259.4	247.6	280.1	300.7	300.7	306.6	306.6
57.5°	2948.2	2541.3	1067.2	333.1	247.6	235.9	268.3	303.7	291.9	303.7	306.6
60°	3302.0	2803.7	1034.8	309.6	230.0	227.0	271.2	324.3	321.4	336.1	339.0
62.5°	3635.1	3013.0	890.3	288.9	218.2	230.0	303.7	365.6	356.7	380.3	380.3
65°	3823.8	3083.8	654.5	277.1	209.3	247.6	336.1	406.8	377.4	389.2	383.3
67.5°	3865.1	3013.0	471.7	262.4	206.4	277.1	359.7	415.7	374.4	386.2	386.2
70°	3767.8	2847.9	380.3	250.6	203.4	280.1	365.6	415.7	377.4	403.9	398.0
72.5°	3328.5	2423.4	324.3	238.8	203.4	274.2	374.4	418.6	386.2	430.4	421.6
75°	2508.9	1813.1	286.0	227.0	191.6	265.3	380.3	421.6	374.4	421.6	415.7
77.5°	1491.8	1034.8	253.5	212.3	176.9	256.5	374.4	421.6	365.6	415.7	409.8
80°	630.9	486.4	215.2	185.7	162.1	244.7	368.5	418.6	350.8	403.9	395.1
82.5°	398.0	330.2	182.8	153.3	159.2	241.8	371.5	412.7	344.9	406.8	377.4
85°	321.4	271.2	156.3	129.7	147.4	247.6	356.7	374.4	297.8	350.8	342.0
87.5°	271.2	227.0	70.8	56.0	109.1	191.6	271.2	280.1	215.2	274.2	262.4
90°	297.8	247.6	67.8	47.2	97.3	168.0	250.6	244.7	206.4	262.4	259.4
92.5°	324.3	262.4	64.9	50.1	109.1	182.8	274.2	247.6	218.2	265.3	262.4
95°	336.1	268.3	61.9	53.1	129.7	200.5	291.9	241.8	230.0	244.7	241.8
97.5°	253.5	194.6	59.0	56.0	135.6	227.0	274.2	203.4	150.4	150.4	147.4
100°	64.9	64.9	53.1	53.1	91.4	165.1	209.3	150.4	85.5	64.9	67.8
102.5°	17.7	20.6	47.2	50.1	50.1	73.7	117.9	97.3	56.0	8.8	8.8
105°	17.7	17.7	32.4	38.3	26.5	23.6	47.2	53.1	41.3	5.9	8.8
107.5°	17.7	17.7	14.7	20.6	8.8	11.8	11.8	14.7	14.7	5.9	5.9
110°	20.6	17.7	8.8	8.8	5.9	5.9	5.9	5.9	5.9	11.8	11.8



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CATALOG NUMBER: SDL-PA1-90-830-U-T4W-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	20.6	17.7	8.8	5.9	5.9	5.9	5.9	5.9	5.9	14.7	14.7
115°	17.7	14.7	8.8	5.9	5.9	5.9	5.9	2.9	5.9	17.7	17.7
117.5°	20.6	17.7	8.8	5.9	2.9	5.9	5.9	2.9	5.9	20.6	20.6
120°	23.6	20.6	8.8	5.9	2.9	2.9	2.9	2.9	8.8	20.6	20.6
122.5°	23.6	23.6	11.8	2.9	2.9	2.9	2.9	2.9	8.8	20.6	20.6
125°	23.6	20.6	8.8	2.9	2.9	2.9	0.0	2.9	8.8	20.6	23.6
127.5°	17.7	17.7	8.8	2.9	2.9	2.9	0.0	2.9	8.8	17.7	20.6
130°	14.7	14.7	5.9	2.9	2.9	2.9	0.0	2.9	8.8	17.7	17.7
132.5°	11.8	11.8	5.9	2.9	2.9	0.0	0.0	0.0	8.8	14.7	14.7
135°	8.8	8.8	2.9	2.9	2.9	0.0	0.0	0.0	5.9	11.8	11.8
137.5°	2.9	2.9	2.9	2.9	2.9	0.0	0.0	0.0	2.9	5.9	5.9
140°	2.9	2.9	2.9	2.9	2.9	0.0	0.0	0.0	0.0	2.9	2.9
142.5°	2.9	2.9	2.9	2.9	2.9	0.0	0.0	0.0	0.0	2.9	2.9
145°	2.9	2.9	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	2.9
147.5°	2.9	2.9	2.9	2.9	2.9	0.0	0.0	0.0	0.0	2.9	2.9
150°	2.9	2.9	2.9	2.9	2.9	0.0	0.0	2.9	5.9	2.9	5.9
152.5°	2.9	2.9	2.9	2.9	2.9	0.0	0.0	2.9	5.9	5.9	5.9
155°	5.9	5.9	5.9	2.9	2.9	0.0	0.0	0.0	2.9	5.9	5.9
157.5°	2.9	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	2.9	2.9	2.9	2.9	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)