

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: P561352

Luminaire Tested: **SDL-PA1-90-830-U-T2U-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561352
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-PA1-90-830-U-T2U-A
Description: Springdale
(1) 80 CRI, 3000K, 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: 7722.2 lumens
Efficiency: N/A
Efficacy: 83.6 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): 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

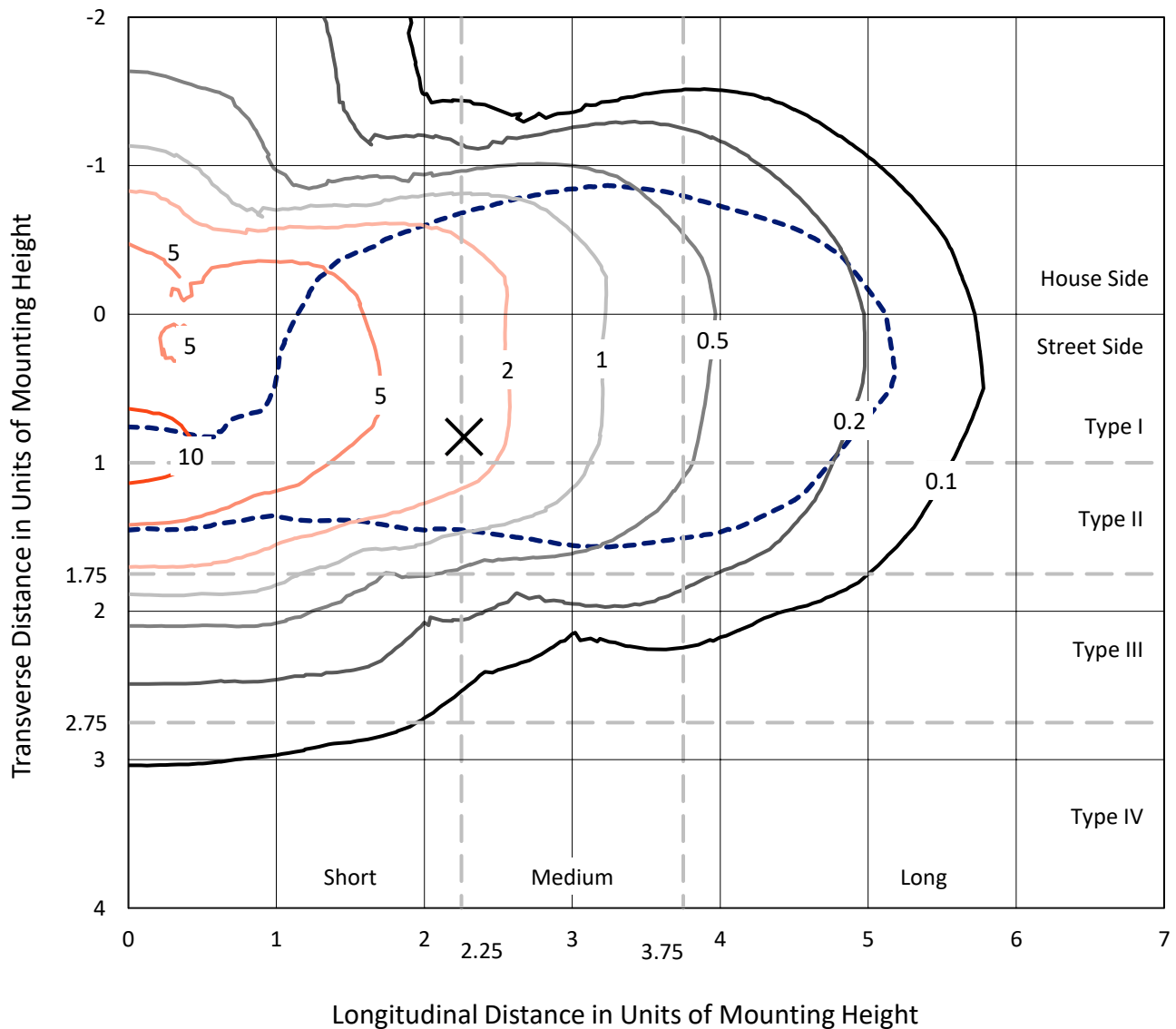


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

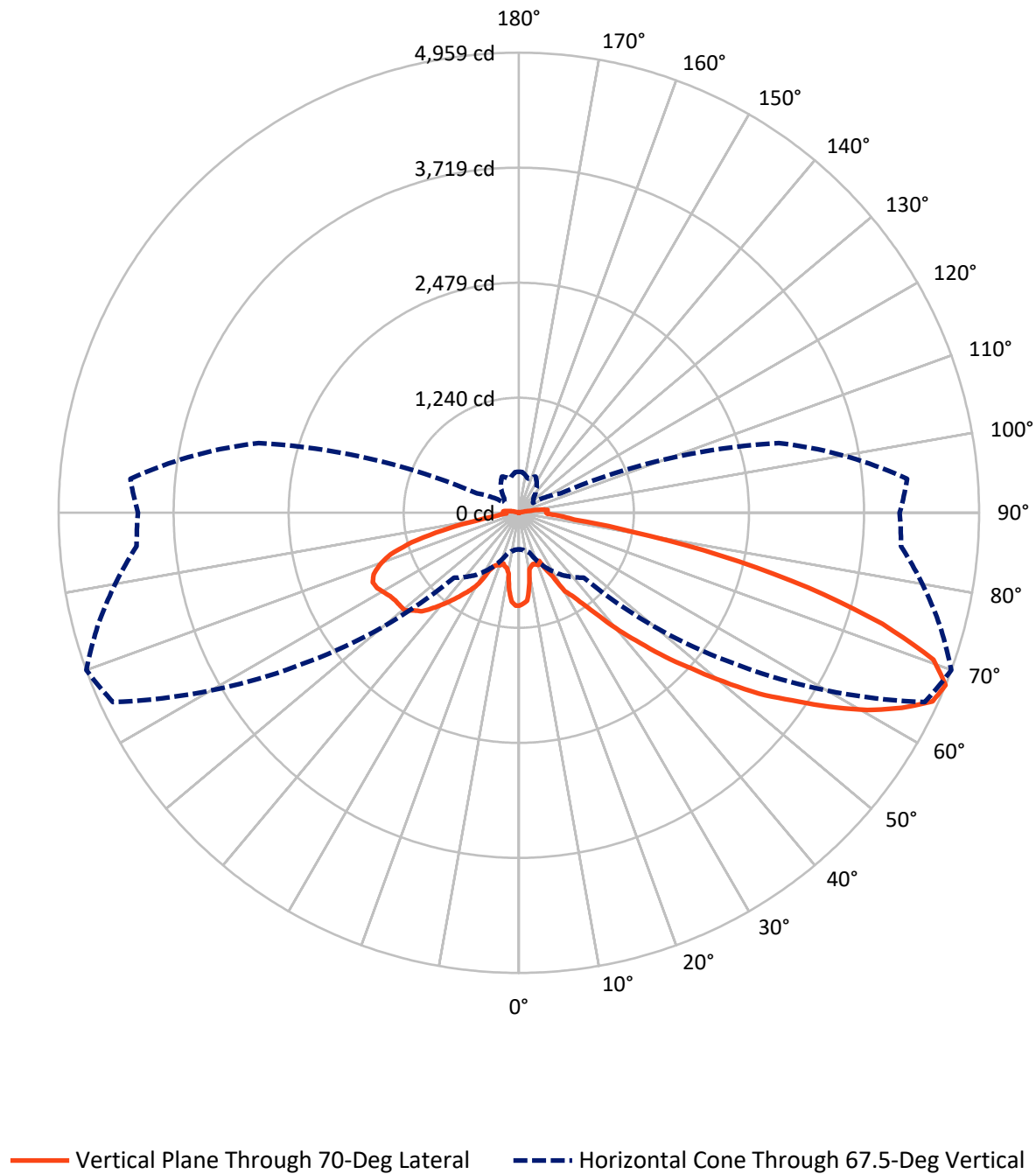


Based on 10 foot mounting height. Maximum calculated value = 12.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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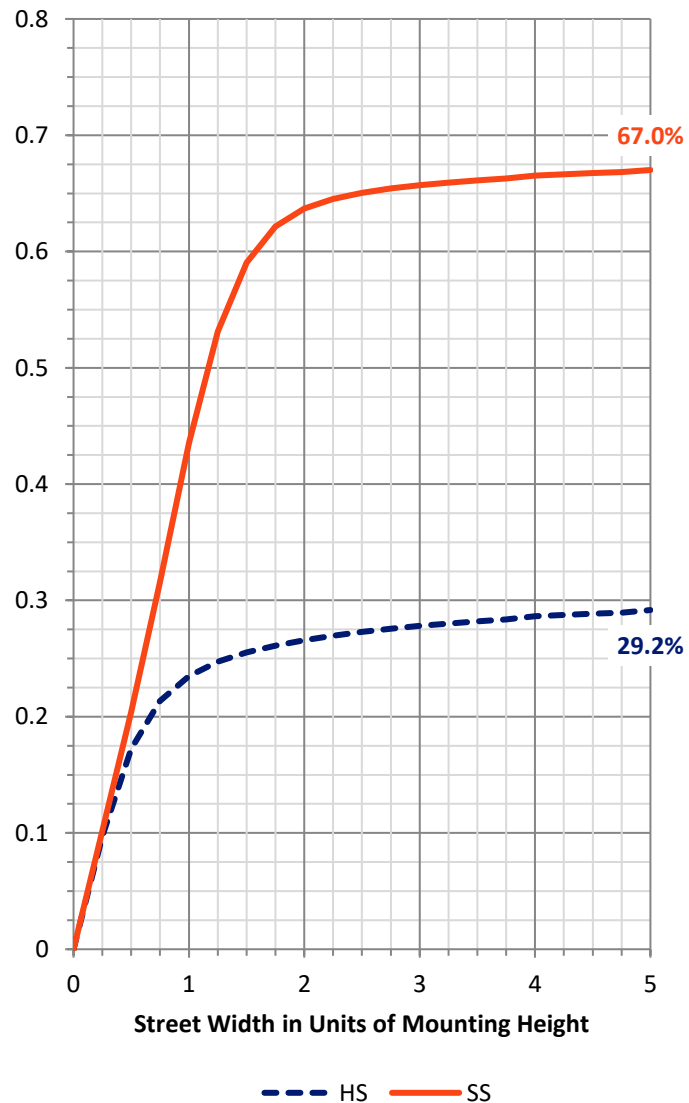
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2322.7	91.0	2413.7
	% Fixture	30.1	1.2	31.3
Street Side	Lumens	5220.5	88.0	5308.5
	% Fixture	67.6	1.1	68.7
Total	Lumens	7543.2	179.0	7722.2
	% Fixture	97.7	2.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.1	1.0
10°-20°	185.3	2.4
20°-30°	328.7	4.3
30°-40°	692.5	9.0
40°-50°	1294.7	16.8
50°-60°	1793.1	23.2
60°-70°	1729.1	22.4
70°-80°	1136.7	14.7
80°-90°	302.9	3.9
90°-100°	124.2	1.6
100°-110°	27.2	0.4
110°-120°	11.7	0.2
120°-130°	8.4	0.1
130°-140°	3.8	0.0
140°-150°	2.0	0.0
150°-160°	1.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7543.2	97.7
0°-180°	7722.2	100.0

Coefficient of Utilization



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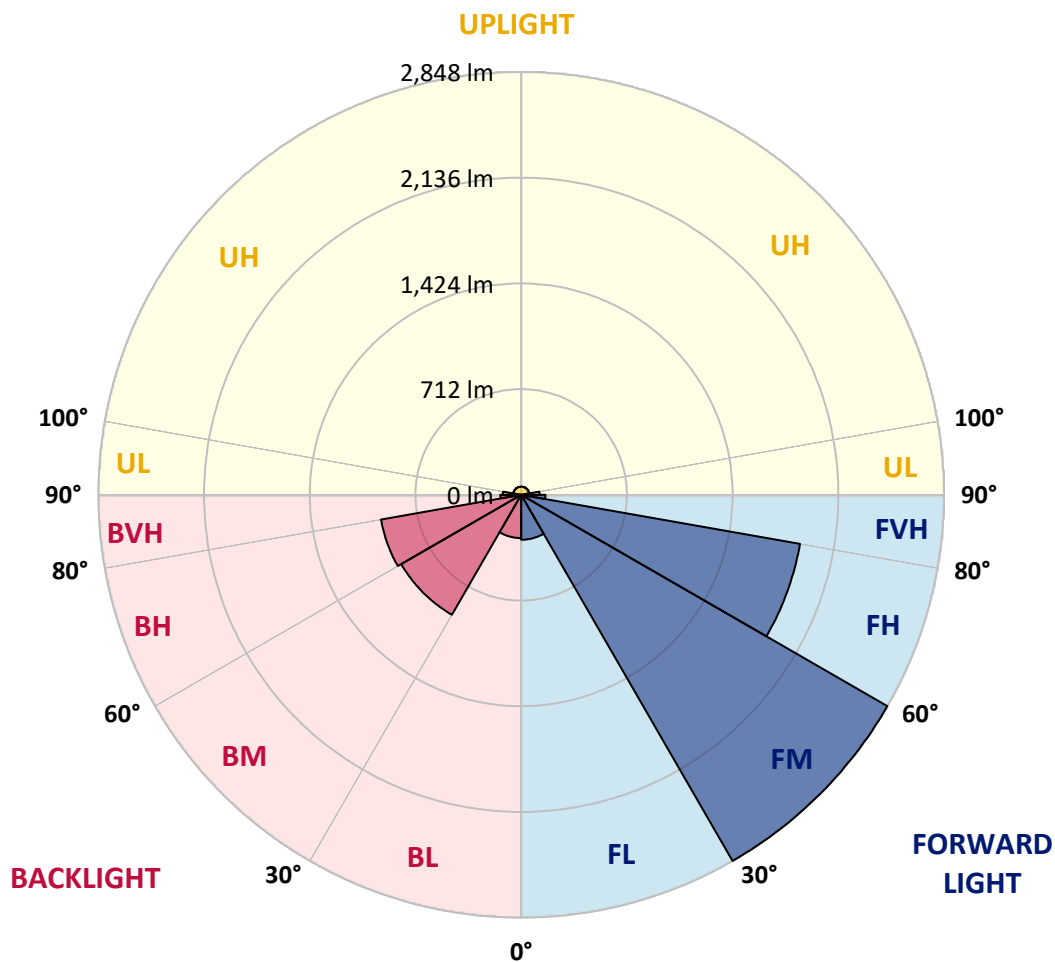
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	302.6	3.9			
FM	(30°-60°)	2847.9	36.9			
FH	(60°-80°)	1907.0	24.7			G2/5000
FVH	(80°-90°)	163.0	2.1			G2/225
BL	(0°-30°)	291.4	3.8	B1/500		
BM	(30°-60°)	932.5	12.1	B1/1000		
BH	(60°-80°)	958.8	12.4	B2/1000		G2/1000
BVH	(80°-90°)	139.9	1.8			G2/225
UL	(90°-100°)	124.2	1.6		U3/500	
UH	(100°-180°)	54.8	0.7		U3/500	

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°	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4
2.5°	834.3	902.1	881.5	946.3	961.1	975.8	978.8	981.7	978.8	981.7	987.6
5°	787.1	790.1	793.0	798.9	798.9	804.8	816.6	940.4	952.2	961.1	972.9
7.5°	657.4	686.9	742.9	763.6	772.4	784.2	790.1	790.1	801.9	831.4	852.0
10°	731.1	725.2	728.2	731.1	689.9	681.0	619.1	610.3	619.1	639.7	737.0
12.5°	613.2	642.7	704.6	719.3	669.2	592.6	583.7	595.5	592.6	533.6	625.0
15°	710.5	707.5	701.6	689.9	560.1	586.7	504.1	510.0	571.9	613.2	698.7
17.5°	619.1	616.1	698.7	675.1	589.6	457.0	574.9	533.6	583.7	539.5	577.8
20°	769.5	766.5	757.7	563.1	601.4	607.3	557.2	515.9	601.4	622.0	701.6
22.5°	698.7	698.7	754.7	740.0	610.3	642.7	530.7	627.9	563.1	571.9	530.7
25°	961.1	952.2	940.4	686.9	734.1	589.6	657.4	577.8	672.2	728.2	763.6
27.5°	931.6	913.9	902.1	911.0	737.0	772.4	651.5	719.3	775.3	798.9	890.3
30°	1308.9	1285.4	1250.0	955.2	916.9	790.1	787.1	890.3	981.7	1055.4	1105.5
32.5°	1668.6	1674.5	1491.7	1282.4	1014.1	1055.4	937.5	1043.6	1073.1	1149.8	1179.2
35°	2140.3	2081.3	1966.4	1600.8	1235.2	1194.0	1090.8	1191.0	1220.5	1294.2	1311.9
37.5°	2511.8	2514.7	2337.8	1925.1	1479.9	1444.6	1264.7	1367.9	1421.0	1503.5	1474.0
40°	2868.5	2883.2	2741.7	2258.2	1789.5	1692.2	1474.0	1594.9	1668.6	1718.7	1668.6
42.5°	3186.9	3183.9	3086.6	2626.7	2078.4	2022.4	1695.1	1851.4	1916.3	1963.4	1925.1
45°	3437.5	3428.6	3340.2	2927.4	2420.4	2497.0	1984.1	2146.2	2214.0	2267.1	2172.7
47.5°	3523.0	3475.8	3437.5	3145.6	2738.8	2915.7	2340.8	2432.2	2511.8	2603.2	2449.9
50°	3431.6	3369.7	3384.4	3248.8	3007.0	3266.5	2724.0	2762.4	2859.6	2939.2	2712.2
52.5°	3051.3	3036.5	3119.1	3145.6	3122.0	3534.8	3154.5	3045.4	3237.0	3245.8	2983.5
55°	2550.1	2532.4	2727.0	2836.1	3012.9	3640.9	3520.0	3443.4	3567.2	3552.4	3225.2
57.5°	2054.8	2043.0	2219.9	2399.7	2706.3	3581.9	3776.5	3879.7	3941.6	3859.0	3449.3
60°	1376.8	1400.3	1704.0	1945.7	2214.0	3228.2	3873.8	4286.5	4316.0	4139.1	3685.1
62.5°	878.5	911.0	1105.5	1500.6	1653.9	2620.8	3803.0	4649.1	4631.4	4392.6	3903.3
65°	563.1	574.9	669.2	1017.1	1185.1	1736.4	3487.6	4896.8	4899.7	4619.6	4077.2
67.5°	395.0	398.0	442.2	633.8	819.6	987.6	2836.1	4826.0	4958.7	4696.3	4133.2
70°	353.8	356.7	368.5	430.4	622.0	613.2	1718.7	4313.0	4740.5	4596.1	4047.7
72.5°	315.4	318.4	339.0	374.4	477.6	480.5	822.5	3434.5	4097.8	4239.3	3794.2
75°	262.4	268.3	291.9	350.8	368.5	403.9	551.3	2414.5	3225.2	3652.7	3493.5
77.5°	221.1	224.1	241.7	297.8	321.3	327.2	471.7	1338.4	2228.8	2688.7	3077.8
80°	176.9	176.9	191.6	235.8	265.3	268.3	421.6	707.5	1235.2	1627.3	2140.3
82.5°	115.0	117.9	135.6	176.9	197.5	265.3	374.4	515.9	604.4	784.2	972.9
85°	73.7	73.7	85.5	100.2	117.9	203.4	330.2	427.5	451.1	492.3	442.2
87.5°	35.4	35.4	32.4	38.3	44.2	76.7	230.0	303.7	306.6	300.7	324.3
90°	29.5	29.5	23.6	26.5	29.5	41.3	173.9	297.8	294.8	306.6	336.1
92.5°	32.4	32.4	23.6	26.5	29.5	35.4	126.8	300.7	309.5	324.3	356.7
95°	35.4	35.4	23.6	23.6	26.5	32.4	79.6	259.4	312.5	327.2	368.5
97.5°	32.4	32.4	17.7	20.6	23.6	29.5	50.1	194.6	244.7	256.5	291.9
100°	29.5	29.5	14.7	17.7	20.6	23.6	32.4	100.2	106.1	79.6	112.0
102.5°	26.5	29.5	11.8	14.7	14.7	14.7	20.6	47.2	47.2	26.5	29.5
105°	26.5	29.5	11.8	11.8	8.8	11.8	11.8	17.7	20.6	14.7	23.6
107.5°	29.5	29.5	11.8	11.8	8.8	8.8	8.8	11.8	14.7	11.8	23.6
110°	26.5	26.5	8.8	11.8	5.9	5.9	5.9	8.8	11.8	11.8	26.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	17.7	17.7	8.8	11.8	5.9	5.9	5.9	8.8	11.8	14.7	32.4
115°	14.7	11.8	5.9	8.8	5.9	5.9	5.9	8.8	8.8	11.8	26.5
117.5°	14.7	11.8	5.9	5.9	2.9	5.9	5.9	8.8	8.8	11.8	23.6
120°	14.7	14.7	5.9	2.9	2.9	2.9	2.9	5.9	8.8	14.7	26.5
122.5°	17.7	14.7	5.9	5.9	2.9	2.9	2.9	5.9	8.8	14.7	26.5
125°	17.7	17.7	8.8	5.9	2.9	2.9	2.9	5.9	8.8	11.8	23.6
127.5°	17.7	14.7	8.8	5.9	2.9	2.9	2.9	2.9	5.9	8.8	20.6
130°	14.7	14.7	8.8	2.9	2.9	2.9	2.9	2.9	5.9	5.9	14.7
132.5°	11.8	11.8	8.8	2.9	2.9	2.9	2.9	2.9	2.9	5.9	11.8
135°	8.8	8.8	5.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	8.8
137.5°	5.9	5.9	5.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
140°	0.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
142.5°	0.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
145°	0.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
147.5°	2.9	2.9	2.9	5.9	5.9	2.9	2.9	2.9	2.9	2.9	2.9
150°	5.9	5.9	11.8	8.8	5.9	2.9	5.9	2.9	2.9	2.9	2.9
152.5°	8.8	8.8	11.8	8.8	2.9	2.9	2.9	5.9	2.9	2.9	2.9
155°	5.9	5.9	5.9	2.9	2.9	2.9	2.9	2.9	5.9	5.9	8.8
157.5°	0.0	0.0	2.9	2.9	2.9	2.9	2.9	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	2.9	2.9	2.9	2.9	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°	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4	999.4
2.5°	990.6	990.6	999.4	1002.3	999.4	996.5	978.8	925.7	893.3	896.2	896.2
5°	975.8	978.8	987.6	934.5	869.7	875.6	884.4	887.4	887.4	893.3	893.3
7.5°	860.8	863.8	840.2	849.0	869.7	884.4	890.3	875.6	828.4	810.7	810.7
10°	745.9	745.9	663.3	666.3	689.9	734.1	872.6	887.4	902.1	905.1	902.1
12.5°	630.9	633.8	566.0	651.5	622.0	701.6	804.8	890.3	822.5	754.7	763.6
15°	704.6	710.5	636.8	560.1	574.9	692.8	601.4	825.5	831.4	831.4	831.4
17.5°	566.0	598.5	563.1	577.8	636.8	521.8	681.0	754.7	692.8	675.1	675.1
20°	704.6	704.6	642.7	557.2	589.6	678.1	604.4	672.2	790.1	790.1	787.1
22.5°	524.8	524.8	563.1	645.6	592.6	669.2	639.7	695.7	627.9	627.9	645.6
25°	757.7	748.8	684.0	571.9	675.1	619.1	642.7	607.3	710.5	719.3	713.4
27.5°	913.9	908.0	734.1	657.4	633.8	660.4	577.8	566.0	545.4	627.9	619.1
30°	1081.9	1067.2	961.1	793.0	695.7	557.2	521.8	542.4	601.4	604.4	601.4
32.5°	1161.5	1129.1	1011.2	949.3	710.5	574.9	468.7	483.5	598.5	633.8	633.8
35°	1270.6	1235.2	1102.6	1034.8	707.5	507.1	415.7	468.7	539.5	542.4	542.4
37.5°	1421.0	1367.9	1255.9	1084.9	660.4	448.1	383.3	415.7	465.8	480.5	486.4
40°	1594.9	1527.1	1426.9	1117.3	592.6	377.4	342.0	383.3	421.6	409.8	409.8
42.5°	1839.6	1739.4	1594.9	1167.4	507.1	333.1	312.5	350.8	377.4	383.3	380.3
45°	2069.6	1945.7	1792.4	1185.1	412.7	300.7	291.9	333.1	359.7	350.8	350.8
47.5°	2329.0	2172.7	1939.8	1143.9	339.0	283.0	291.9	321.3	333.1	347.9	347.9
50°	2585.5	2417.4	2155.0	1079.0	300.7	271.2	291.9	309.5	333.1	342.0	339.0
52.5°	2818.4	2671.0	2284.8	964.0	280.1	262.4	283.0	309.5	339.0	353.8	353.8
55°	3071.9	2921.6	2402.7	860.8	262.4	244.7	291.9	321.3	330.2	339.0	339.0
57.5°	3263.5	3145.6	2532.4	769.5	250.6	244.7	297.8	336.1	333.1	342.0	342.0
60°	3496.4	3393.2	2650.3	725.2	232.9	232.9	309.5	362.6	339.0	365.6	365.6
62.5°	3744.1	3682.2	2765.3	692.8	215.2	227.0	312.5	383.3	350.8	392.1	395.0
65°	3982.9	3994.7	2871.4	616.1	200.5	227.0	318.4	409.8	362.6	415.7	421.6
67.5°	4103.7	4201.0	2900.9	495.3	185.7	224.1	336.1	430.4	380.3	439.3	442.2
70°	4080.1	4206.9	2833.1	365.6	173.9	235.8	362.6	448.1	389.1	468.7	468.7
72.5°	3873.8	3965.2	2632.6	277.1	162.1	227.0	368.5	454.0	395.0	515.9	515.9
75°	3581.9	3487.6	2166.8	230.0	153.3	227.0	359.7	448.1	389.1	504.1	501.2
77.5°	3107.3	2791.8	1494.7	203.4	144.5	218.2	336.1	436.3	371.5	468.7	474.6
80°	1992.9	1718.7	763.6	176.9	153.3	209.3	324.3	403.9	344.9	418.6	421.6
82.5°	908.0	763.6	347.9	156.2	150.4	188.7	294.8	359.7	300.7	356.7	353.8
85°	383.3	389.1	274.2	132.7	132.7	147.4	218.2	280.1	232.9	250.6	244.7
87.5°	297.8	286.0	188.7	79.6	85.5	64.9	141.5	200.5	153.3	162.1	159.2
90°	315.4	309.5	200.5	82.5	61.9	38.3	106.1	156.2	115.0	103.2	100.2
92.5°	336.1	333.1	224.1	88.4	61.9	32.4	91.4	126.8	82.5	70.8	67.8
95°	359.7	359.7	244.7	94.3	61.9	32.4	82.5	97.3	61.9	47.2	44.2
97.5°	286.0	291.9	209.3	97.3	59.0	32.4	73.7	79.6	47.2	26.5	26.5
100°	115.0	126.8	115.0	97.3	53.1	26.5	59.0	61.9	32.4	14.7	14.7
102.5°	26.5	32.4	79.6	85.5	41.3	17.7	38.3	38.3	20.6	8.8	8.8
105°	26.5	23.6	53.1	67.8	23.6	11.8	17.7	23.6	11.8	5.9	5.9
107.5°	26.5	26.5	23.6	32.4	11.8	8.8	8.8	8.8	5.9	5.9	5.9
110°	29.5	26.5	11.8	11.8	8.8	8.8	5.9	5.9	2.9	17.7	20.6



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CATALOG NUMBER: SDL-PA1-90-830-U-T2U-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	35.4	32.4	14.7	11.8	8.8	8.8	5.9	5.9	8.8	29.5	29.5
115°	29.5	26.5	14.7	8.8	8.8	8.8	5.9	2.9	8.8	32.4	32.4
117.5°	26.5	23.6	14.7	8.8	5.9	8.8	5.9	2.9	8.8	32.4	32.4
120°	29.5	26.5	14.7	8.8	5.9	5.9	5.9	2.9	8.8	29.5	29.5
122.5°	29.5	29.5	17.7	5.9	5.9	2.9	5.9	2.9	8.8	26.5	26.5
125°	26.5	23.6	14.7	5.9	2.9	2.9	2.9	2.9	11.8	23.6	26.5
127.5°	23.6	20.6	11.8	5.9	2.9	2.9	2.9	2.9	8.8	17.7	20.6
130°	17.7	17.7	8.8	5.9	2.9	2.9	2.9	2.9	8.8	17.7	14.7
132.5°	11.8	11.8	8.8	5.9	2.9	2.9	2.9	2.9	8.8	11.8	11.8
135°	8.8	8.8	5.9	2.9	2.9	2.9	2.9	2.9	5.9	8.8	8.8
137.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	5.9	5.9
140°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
142.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
145°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
147.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
150°	2.9	2.9	2.9	2.9	5.9	2.9	2.9	5.9	2.9	2.9	2.9
152.5°	2.9	2.9	2.9	5.9	2.9	2.9	2.9	2.9	8.8	8.8	5.9
155°	8.8	8.8	5.9	2.9	2.9	2.9	2.9	2.9	5.9	2.9	2.9
157.5°	2.9	2.9	2.9	2.9	2.9	0.0	2.9	0.0	0.0	2.9	0.0
160°	0.0	0.0	2.9	2.9	2.9	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)