

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: P561223

Luminaire Tested: **SDL-PA1-90-727-U-T2U**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-8)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-90-727-U-T2U
Description: Springdale
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8651.7 lumens
Efficiency: N/A
Efficacy: 93.6 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: B3 - U0 - 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

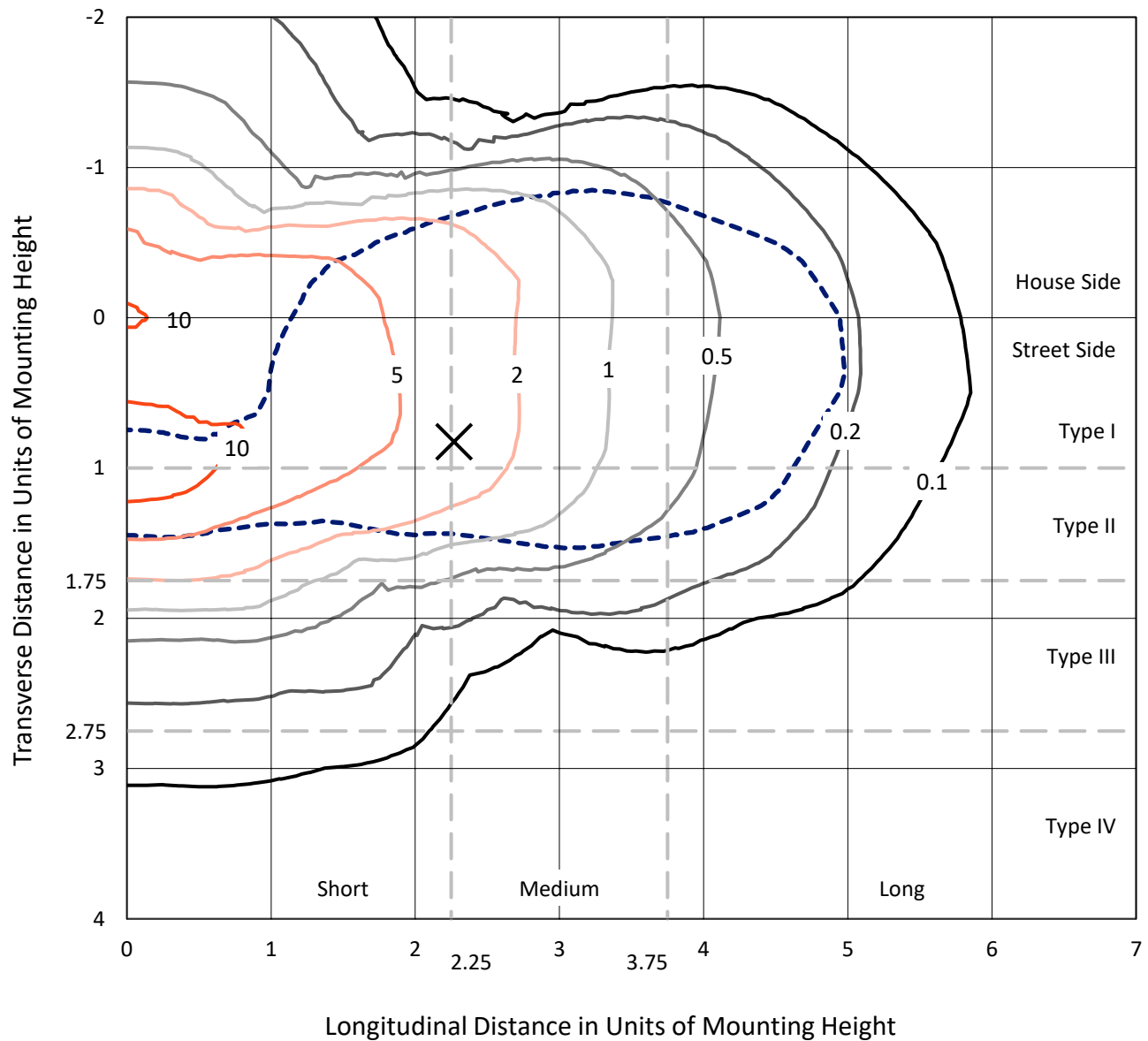


REPORT NUMBER: P561223

CATALOG NUMBER: SDL-PA1-90-727-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

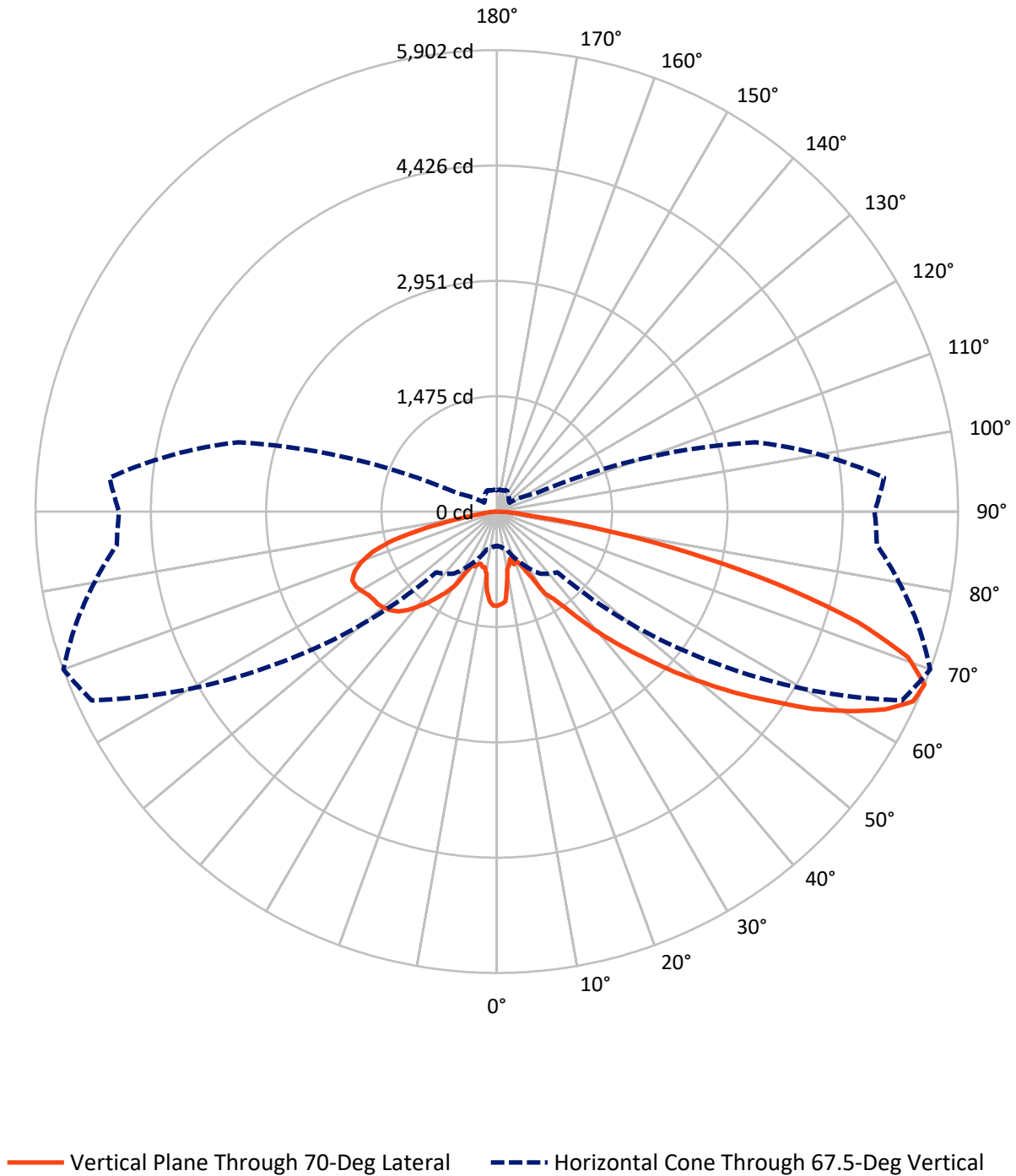


Based on 10 foot mounting height. Maximum calculated value = 15.7 fc
Type II - Medium - N/A

REPORT NUMBER: P561223

CATALOG NUMBER: SDL-PA1-90-727-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P561223

CATALOG NUMBER: SDL-PA1-90-727-U-T2U

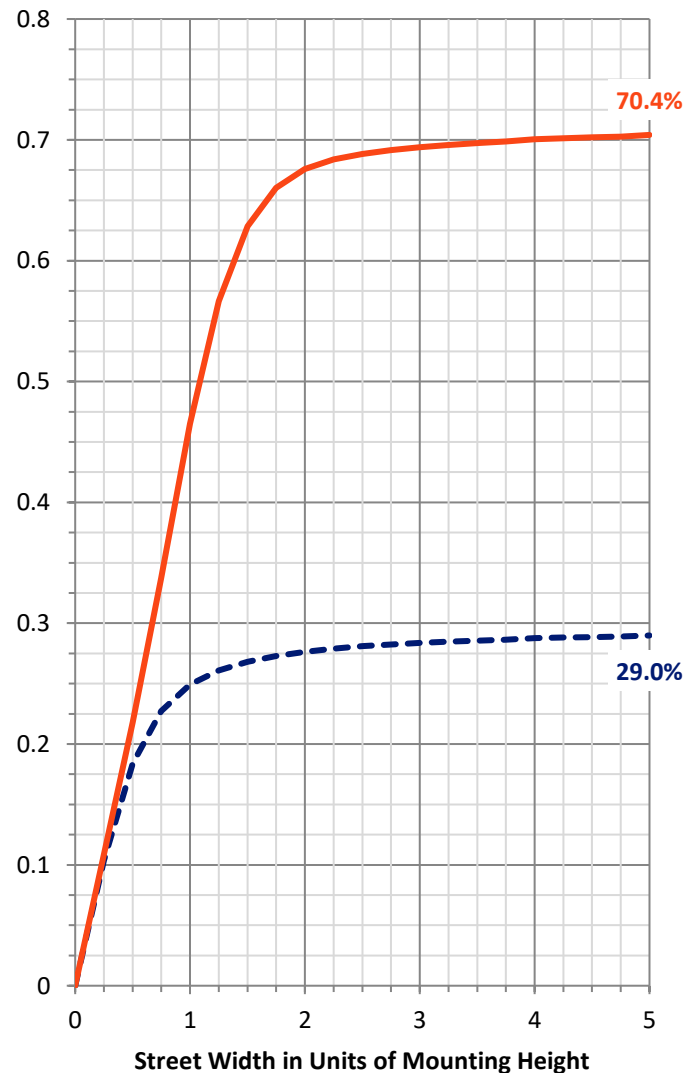
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2537.2	0.0	2537.2
	% Fixture	29.3	0.0	29.3
Street Side	Lumens	6114.5	0.0	6114.5
	% Fixture	70.7	0.0	70.7
Total	Lumens	8651.7	0.0	8651.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	1.1
10°-20°	226.5	2.6
20°-30°	402.5	4.7
30°-40°	850.7	9.8
40°-50°	1557.4	18.0
50°-60°	2124.7	24.6
60°-70°	2003.0	23.2
70°-80°	1212.2	14.0
80°-90°	178.1	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8651.7	100.0
0°-180°	8651.7	100.0

Coefficient of Utilization



REPORT NUMBER: P561223

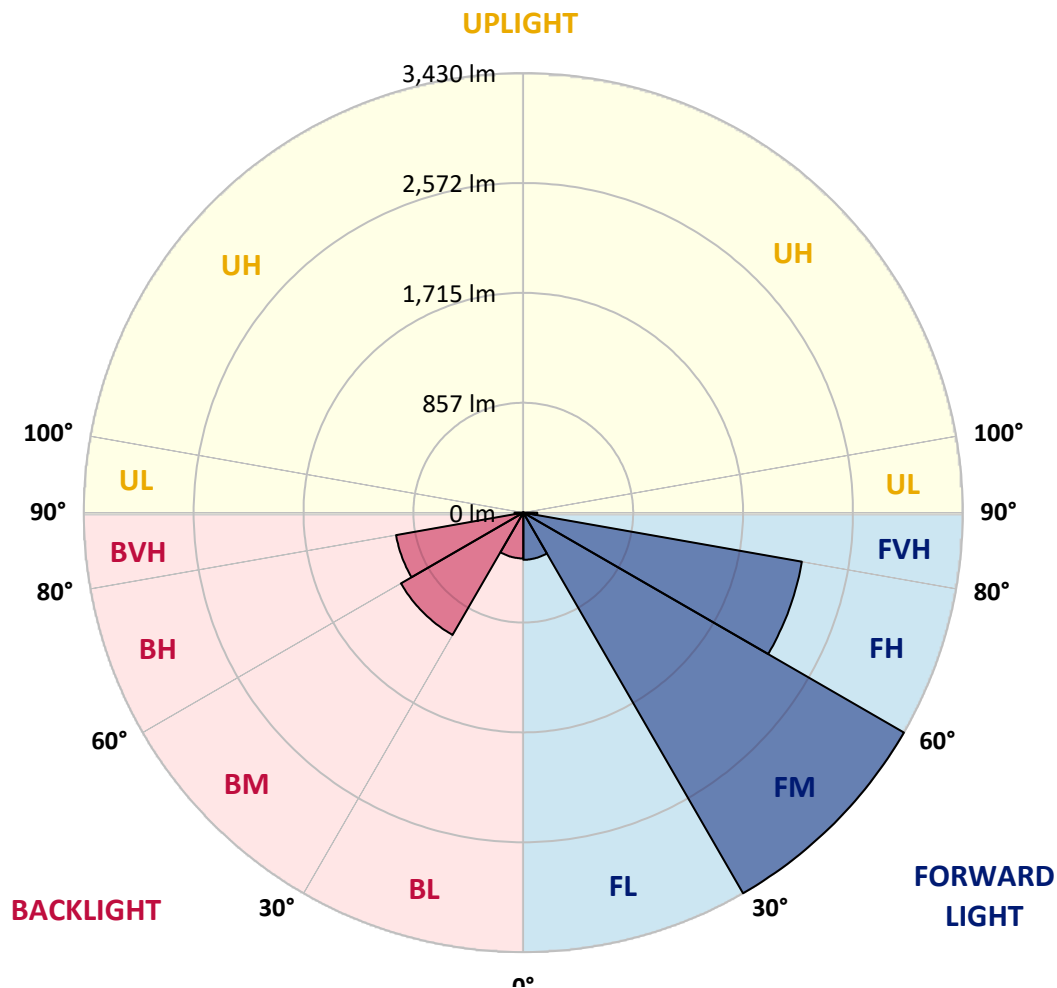
CATALOG NUMBER: SDL-PA1-90-727-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	368.1	4.3			
FM	(30°-60°)	3429.9	39.6			
FH	(60°-80°)	2207.3	25.5			G2/5000
FVH	(80°-90°)	109.2	1.3			G2/225
BL	(0°-30°)	357.4	4.1	B1/500		
BM	(30°-60°)	1102.9	12.7	B2/2500		
BH	(60°-80°)	1008.0	11.7	B3/2500		G3/2500
BVH	(80°-90°)	68.9	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





REPORT NUMBER: P561223

CATALOG NUMBER: SDL-PA1-90-727-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6
2.5°	1011.6	1021.0	1083.2	1145.5	1148.6	1148.6	1151.7	1154.8	1164.2	1170.4	1176.6
5°	943.2	949.4	949.4	949.4	952.5	955.6	958.7	958.7	965.0	968.1	974.3
7.5°	790.6	852.9	874.7	893.4	905.8	915.2	921.4	927.6	933.8	940.1	946.3
10°	899.6	899.6	902.7	902.7	902.7	899.6	837.3	772.0	803.1	834.2	787.5
12.5°	740.8	753.3	809.3	862.2	877.8	890.2	859.1	824.9	768.9	712.8	706.6
15°	880.9	880.9	880.9	877.8	821.8	762.6	703.5	641.2	678.6	715.9	659.9
17.5°	762.6	762.6	809.3	852.9	849.8	843.6	790.6	734.6	647.5	557.2	628.8
20°	961.8	958.7	943.2	924.5	809.3	694.1	719.0	743.9	750.2	753.3	731.5
22.5°	859.1	862.2	880.9	899.6	902.7	905.8	772.0	635.0	712.8	790.6	715.9
25°	1195.3	1189.1	1161.1	1129.9	1002.3	871.6	896.5	921.4	793.8	663.0	743.9
27.5°	1136.2	1117.5	1105.0	1092.6	1114.4	1136.2	1017.9	896.5	924.5	952.5	849.8
30°	1624.9	1624.9	1593.7	1559.5	1366.5	1170.4	1139.3	1108.1	1033.4	955.6	974.3
32.5°	2057.5	2057.5	1942.4	1824.1	1708.9	1593.7	1441.2	1288.7	1257.6	1223.3	1192.2
35°	2589.8	2574.3	2508.9	2440.4	2191.4	1942.4	1746.3	1550.2	1487.9	1425.6	1394.5
37.5°	3087.9	3053.6	2963.3	2870.0	2608.5	2343.9	2085.5	1827.2	1758.7	1690.2	1621.7
40°	3498.7	3480.1	3417.8	3352.4	3056.7	2761.0	2468.4	2172.7	2082.4	1992.2	1892.6
42.5°	3875.4	3859.8	3803.8	3744.7	3452.1	3156.3	2879.3	2599.2	2465.3	2331.5	2213.2
45°	4152.4	4127.5	4090.2	4049.7	3816.2	3579.7	3299.5	3016.3	2963.3	2910.4	2680.1
47.5°	4239.6	4196.0	4189.8	4183.5	3996.8	3810.0	3585.9	3361.8	3371.1	3380.5	3112.8
50°	4112.0	4046.6	4074.6	4102.6	4027.9	3950.1	3775.8	3601.5	3679.3	3754.0	3542.3
52.5°	3648.2	3632.6	3704.2	3772.7	3791.3	3810.0	3772.7	3732.2	3875.4	4018.6	3940.8
55°	3010.0	3078.5	3178.1	3277.7	3355.6	3430.3	3539.2	3648.2	3894.1	4140.0	4196.0
57.5°	2371.9	2443.5	2558.7	2673.9	2764.1	2854.4	3078.5	3302.6	3673.1	4043.5	4295.6
60°	1596.8	1671.6	1861.4	2048.2	2175.8	2303.4	2505.8	2708.1	3175.0	3641.9	4152.4
62.5°	1064.6	1039.7	1198.4	1354.1	1559.5	1764.9	1855.2	1942.4	2431.1	2916.7	3741.5
65°	653.7	656.8	719.0	778.2	1005.4	1229.5	1301.1	1369.6	1646.6	1923.7	3047.4
67.5°	438.9	448.2	476.3	504.3	613.2	722.2	846.7	971.2	1036.5	1098.8	2222.5
70°	389.1	392.2	404.7	417.1	448.2	479.4	594.5	709.7	672.4	631.9	1260.7
72.5°	342.4	345.5	367.3	386.0	401.5	417.1	485.6	554.1	510.5	466.9	628.8
75°	280.1	289.5	311.3	330.0	361.1	389.1	404.7	420.2	398.4	373.5	404.7
77.5°	230.3	236.6	252.1	267.7	298.8	326.8	342.4	358.0	323.7	289.5	308.2
80°	180.5	183.7	196.1	208.6	233.5	255.2	273.9	289.5	258.4	224.1	233.5
82.5°	108.9	112.1	130.7	146.3	168.1	186.8	199.2	208.6	217.9	224.1	196.1
85°	59.1	59.1	71.6	84.0	87.2	90.3	102.7	112.1	140.1	165.0	143.2
87.5°	9.3	9.3	12.5	12.5	18.7	21.8	24.9	24.9	28.0	28.0	31.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P561223

CATALOG NUMBER: SDL-PA1-90-727-U-T2U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6
2.5°	1179.7	1182.8	1182.8	1182.8	1186.0	1189.1	1192.2	1192.2	1195.3	1198.4	1201.5
5°	980.5	1061.5	1139.3	1151.7	1161.1	1167.3	1173.5	1176.6	1182.8	1189.1	1192.2
7.5°	952.5	952.5	952.5	930.7	1011.6	1021.0	1030.3	1036.5	1042.8	1036.5	1027.2
10°	737.7	737.7	734.6	740.8	775.1	834.2	890.2	896.5	902.7	852.9	800.0
12.5°	697.3	706.6	715.9	700.4	638.1	691.0	743.9	753.3	756.4	712.8	666.1
15°	600.8	603.9	607.0	628.8	756.4	809.3	862.2	871.6	880.9	834.2	784.4
17.5°	697.3	675.5	650.6	709.7	659.9	694.1	725.3	650.6	719.0	706.6	694.1
20°	709.7	635.0	557.2	663.0	775.1	828.0	877.8	884.0	887.1	849.8	809.3
22.5°	641.2	712.8	784.4	712.8	669.2	663.0	656.8	653.7	656.8	678.6	697.3
25°	824.9	734.6	644.3	809.3	912.0	936.9	961.8	949.4	943.2	896.5	849.8
27.5°	747.1	818.7	887.1	955.6	986.7	1021.0	1052.1	1061.5	1011.6	961.8	912.0
30°	989.9	1033.4	1073.9	1214.0	1316.7	1347.8	1379.0	1347.8	1329.1	1266.9	1201.5
32.5°	1157.9	1245.1	1332.3	1329.1	1425.6	1450.5	1472.3	1431.9	1397.6	1329.1	1257.6
35°	1363.4	1419.4	1475.4	1506.6	1603.1	1612.4	1621.7	1568.8	1519.0	1438.1	1357.2
37.5°	1553.3	1624.9	1693.3	1771.2	1855.2	1836.5	1814.7	1749.4	1668.4	1606.2	1543.9
40°	1789.8	1877.0	1964.2	2063.8	2113.6	2085.5	2054.4	1954.8	1877.0	1811.6	1746.3
42.5°	2091.8	2185.2	2275.4	2362.6	2381.3	2350.1	2315.9	2206.9	2088.7	2023.3	1954.8
45°	2446.6	2521.3	2596.0	2686.3	2723.7	2667.6	2608.5	2471.5	2331.5	2238.1	2144.7
47.5°	2841.9	2876.2	2910.4	3066.1	3115.9	3022.5	2926.0	2776.6	2580.5	2459.1	2334.6
50°	3330.7	3321.3	3308.9	3445.8	3561.0	3405.4	3246.6	3072.3	2879.3	2708.1	2533.8
52.5°	3862.9	3772.7	3679.3	3862.9	3919.0	3732.2	3545.4	3358.7	3165.7	2944.7	2720.6
55°	4252.0	4202.2	4152.4	4283.2	4276.9	4059.0	3838.0	3617.0	3458.3	3162.6	2866.9
57.5°	4544.6	4588.2	4628.7	4759.4	4610.0	4361.0	4112.0	3890.9	3754.0	3383.6	3013.2
60°	4659.8	4883.9	5104.9	5182.7	4955.5	4675.4	4392.1	4174.2	4059.0	3610.8	3162.6
62.5°	4566.4	5061.3	5556.3	5571.8	5273.0	4958.6	4644.2	4466.8	4407.7	3856.7	3302.6
65°	4171.1	4986.6	5799.1	5855.1	5518.9	5189.0	4855.9	4725.2	4762.5	4087.1	3408.5
67.5°	3343.1	4532.2	5718.1	5901.8	5578.1	5229.4	4880.8	4834.1	4974.2	4199.1	3424.0
70°	1889.4	3483.2	5073.8	5584.3	5413.1	5067.6	4718.9	4740.7	4949.3	4136.9	3324.4
72.5°	787.5	2409.3	4031.0	4831.0	4980.4	4687.8	4392.1	4473.0	4616.2	3844.3	3069.2
75°	435.8	1537.7	2639.6	3704.2	4164.9	4087.1	4006.1	4096.4	4027.9	3280.8	2533.8
77.5°	323.7	831.1	1338.5	2480.9	3134.5	3312.0	3486.3	3529.9	3147.0	2396.8	1646.6
80°	242.8	395.3	544.7	1266.9	1680.9	1998.4	2315.9	2119.8	1852.1	1294.9	737.7
82.5°	168.1	227.2	286.4	407.8	653.7	753.3	849.8	809.3	607.0	426.4	242.8
85°	118.3	149.4	180.5	224.1	280.1	224.1	168.1	137.0	158.8	146.3	133.8
87.5°	31.1	31.1	28.0	31.1	21.8	18.7	15.6	12.5	12.5	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P561223

CATALOG NUMBER: SDL-PA1-90-727-U-T2U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6
2.5°	1204.6	1207.8	1207.8	1207.8	1207.8	1204.6	1189.1	1173.5	1136.2	1098.8	1086.4
5°	1151.7	1111.3	1080.1	1049.0	1049.0	1049.0	1055.2	1061.5	1064.6	1067.7	1070.8
7.5°	1027.2	1024.1	1036.5	1049.0	1058.3	1067.7	1073.9	1080.1	1067.7	1055.2	1027.2
10°	803.1	803.1	818.7	831.1	852.9	874.7	936.9	999.2	1052.1	1105.0	1114.4
12.5°	728.4	787.5	753.3	715.9	793.8	871.6	940.1	1005.4	1058.3	1108.1	1067.7
15°	731.5	675.5	687.9	700.4	784.4	868.5	806.2	740.8	865.3	986.7	1014.8
17.5°	697.3	700.4	756.4	812.4	728.4	641.2	750.2	859.1	905.8	949.4	908.9
20°	715.9	619.4	684.8	750.2	809.3	865.3	809.3	750.2	765.7	781.3	887.1
22.5°	756.4	815.5	759.5	703.5	772.0	837.3	809.3	781.3	831.1	877.8	834.2
25°	753.3	653.7	747.1	840.4	778.2	712.8	747.1	781.3	756.4	728.4	809.3
27.5°	868.5	824.9	800.0	772.0	806.2	840.4	768.9	697.3	697.3	697.3	687.9
30°	1086.4	971.2	921.4	868.5	784.4	700.4	675.5	650.6	653.7	656.8	703.5
32.5°	1214.0	1170.4	1021.0	871.6	793.8	715.9	650.6	585.2	591.4	597.6	656.8
35°	1326.0	1291.8	1092.6	890.2	762.6	631.9	575.9	516.7	544.7	569.6	619.4
37.5°	1453.7	1360.3	1089.5	815.5	678.6	541.6	507.4	473.1	491.8	507.4	538.5
40°	1568.8	1388.3	1061.5	731.5	594.5	454.5	438.9	420.2	435.8	451.4	470.0
42.5°	1693.3	1428.8	1021.0	610.1	501.2	392.2	386.0	379.8	395.3	410.9	423.3
45°	1789.8	1435.0	968.1	498.0	426.4	354.9	354.9	351.7	367.3	379.8	386.0
47.5°	1852.1	1366.5	884.0	398.4	367.3	336.2	339.3	339.3	351.7	361.1	364.2
50°	1895.7	1254.4	803.1	351.7	336.2	320.6	320.6	320.6	333.1	342.4	348.6
52.5°	1926.8	1129.9	728.4	323.7	317.5	308.2	308.2	305.1	320.6	336.2	339.3
55°	1936.1	1002.3	653.7	301.9	295.7	289.5	295.7	298.8	317.5	333.1	336.2
57.5°	1957.9	902.7	591.4	280.1	277.0	273.9	283.3	292.6	311.3	330.0	330.0
60°	2001.5	837.3	547.8	258.4	258.4	258.4	273.9	286.4	305.1	323.7	320.6
62.5°	2042.0	778.2	507.4	236.6	239.7	242.8	261.5	280.1	298.8	317.5	314.4
65°	2048.2	684.8	451.4	217.9	224.1	227.2	249.0	270.8	289.5	308.2	301.9
67.5°	1979.7	535.4	367.3	199.2	208.6	214.8	239.7	261.5	280.1	295.7	289.5
70°	1855.2	382.9	283.3	183.7	193.0	199.2	224.1	245.9	261.5	277.0	270.8
72.5°	1671.6	273.9	221.0	168.1	174.3	180.5	202.3	224.1	242.8	258.4	252.1
75°	1379.0	221.0	186.8	152.5	158.8	161.9	183.7	202.3	221.0	236.6	227.2
77.5°	915.2	180.5	158.8	137.0	140.1	143.2	161.9	177.4	193.0	205.4	199.2
80°	442.0	146.3	133.8	118.3	121.4	121.4	137.0	152.5	165.0	174.3	171.2
82.5°	180.5	115.2	105.8	96.5	96.5	96.5	112.1	124.5	137.0	146.3	140.1
85°	112.1	90.3	84.0	74.7	71.6	68.5	74.7	80.9	87.2	90.3	87.2
87.5°	15.6	15.6	18.7	21.8	18.7	12.5	18.7	24.9	24.9	21.8	18.7
90°	0.0	0.0	9.3	9.3	6.2	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P561223

CATALOG NUMBER: SDL-PA1-90-727-U-T2U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1204.6	1204.6	1204.6	1204.6
2.5°	1073.9	1073.9	1073.9	1080.1
5°	1070.8	1070.8	1070.8	1077.0
7.5°	999.2	968.1	936.9	940.1
10°	1120.6	1123.7	1123.7	1126.8
12.5°	1024.1	974.3	924.5	930.7
15°	1042.8	1042.8	1039.7	1042.8
17.5°	868.5	852.9	837.3	837.3
20°	993.0	993.0	993.0	993.0
22.5°	790.6	787.5	784.4	787.5
25°	890.2	893.4	893.4	890.2
27.5°	678.6	719.0	756.4	759.5
30°	747.1	747.1	747.1	747.1
32.5°	715.9	747.1	778.2	781.3
35°	666.1	663.0	659.9	669.2
37.5°	566.5	560.3	554.1	554.1
40°	488.7	476.3	463.8	463.8
42.5°	432.7	423.3	410.9	407.8
45°	392.2	382.9	370.4	370.4
47.5°	364.2	358.0	351.7	348.6
50°	351.7	345.5	339.3	339.3
52.5°	342.4	339.3	333.1	333.1
55°	336.2	333.1	326.8	326.8
57.5°	330.0	326.8	320.6	320.6
60°	317.5	314.4	311.3	311.3
62.5°	308.2	305.1	301.9	301.9
65°	295.7	295.7	292.6	289.5
67.5°	280.1	280.1	280.1	273.9
70°	261.5	261.5	261.5	255.2
72.5°	242.8	242.8	239.7	230.3
75°	217.9	214.8	211.7	205.4
77.5°	193.0	186.8	180.5	177.4
80°	165.0	158.8	152.5	146.3
82.5°	130.7	127.6	121.4	105.8
85°	80.9	71.6	59.1	52.9
87.5°	15.6	12.5	9.3	3.1
90°	0.0	0.0	0.0	0.0



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