

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: P561341

Luminaire Tested: **SDL-PA1-90-827-U-T4W**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-12)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-90-827-U-T4W
Description: Springdale
(1) 80 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7476.6 lumens
Efficiency: N/A
Efficacy: 80.9 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 - 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

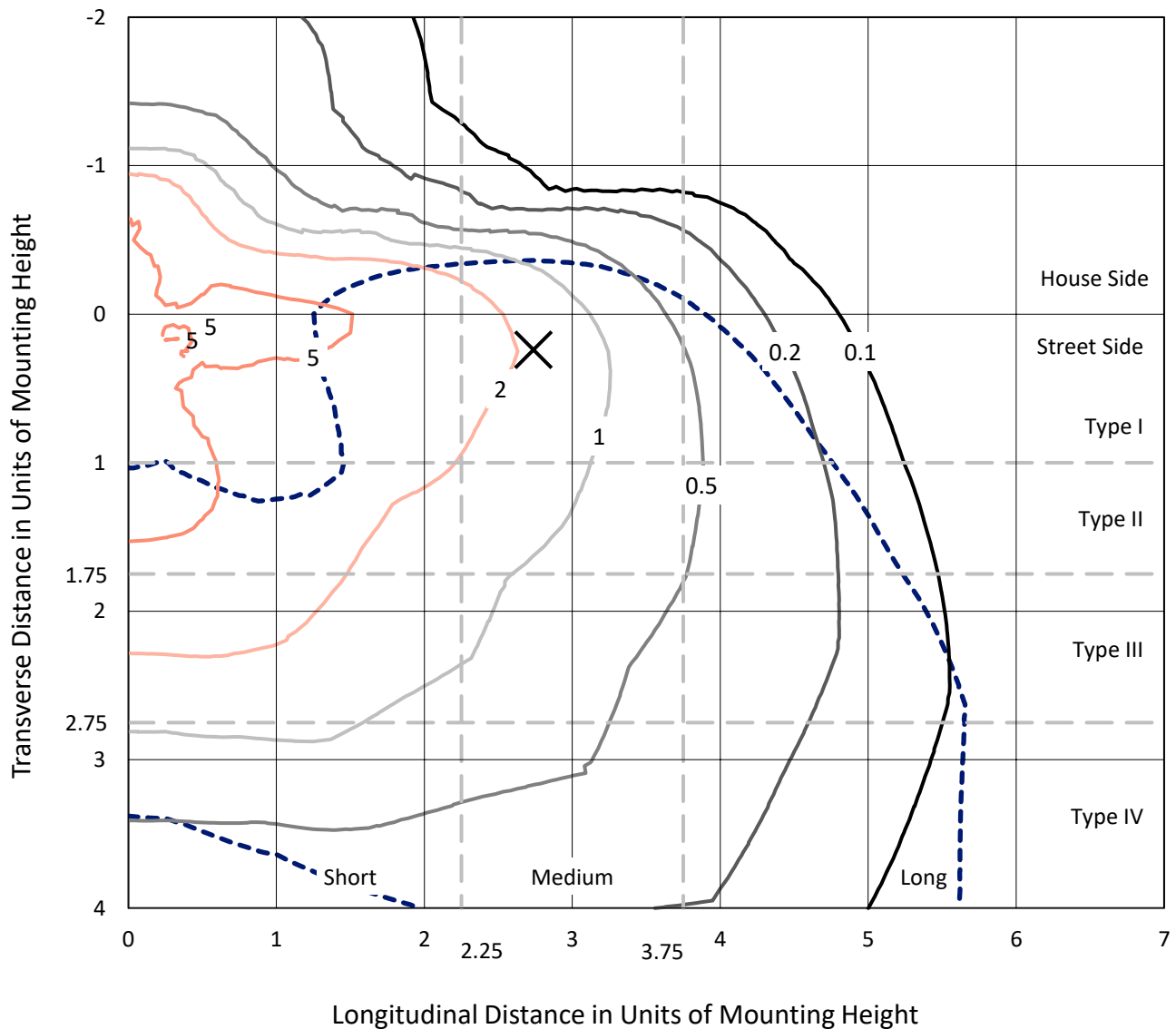


REPORT NUMBER: P561341

CATALOG NUMBER: SDL-PA1-90-827-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

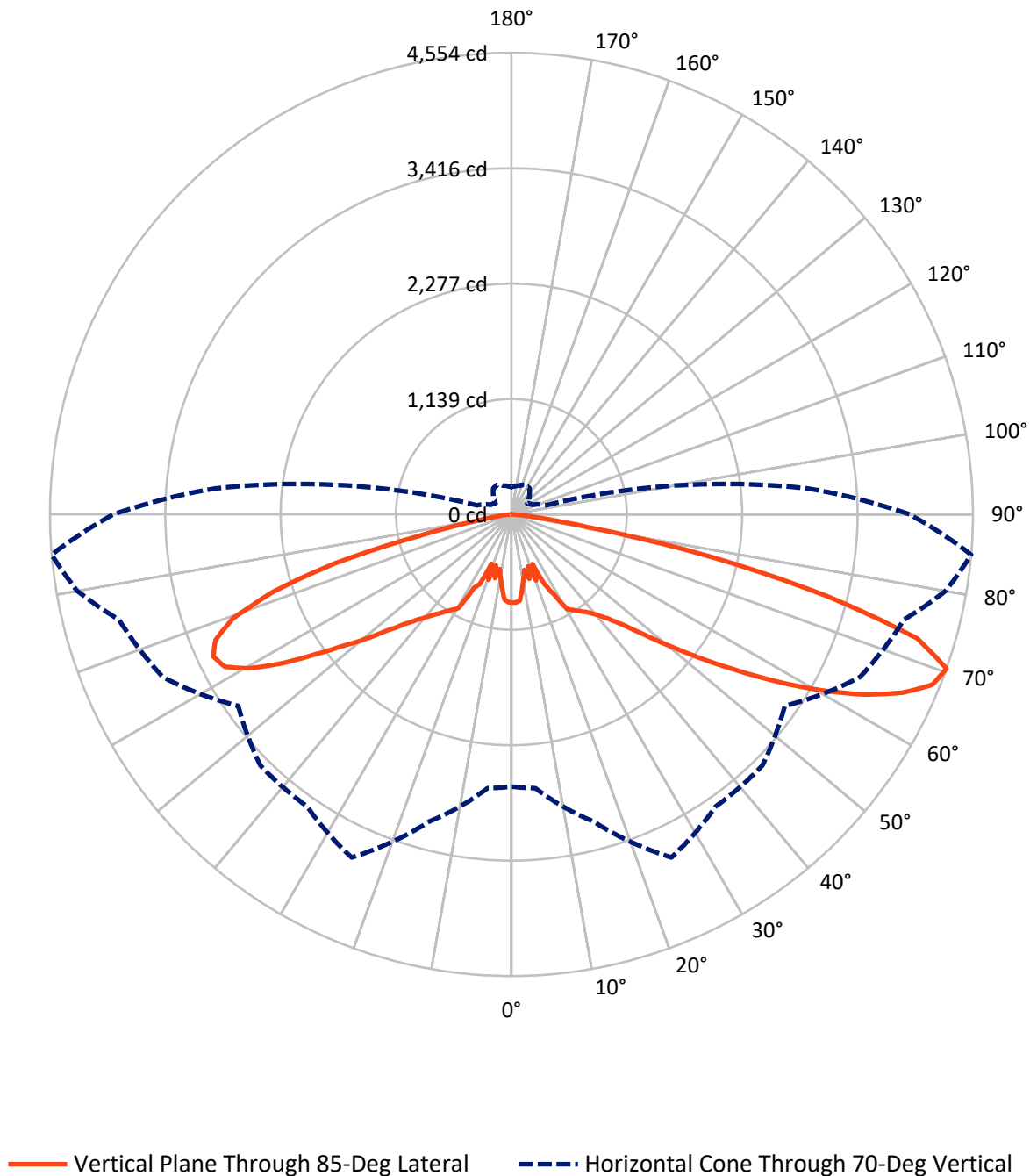


Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
Type IV - Medium - N/A

REPORT NUMBER: P561341

CATALOG NUMBER: SDL-PA1-90-827-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P561341

CATALOG NUMBER: SDL-PA1-90-827-U-T4W

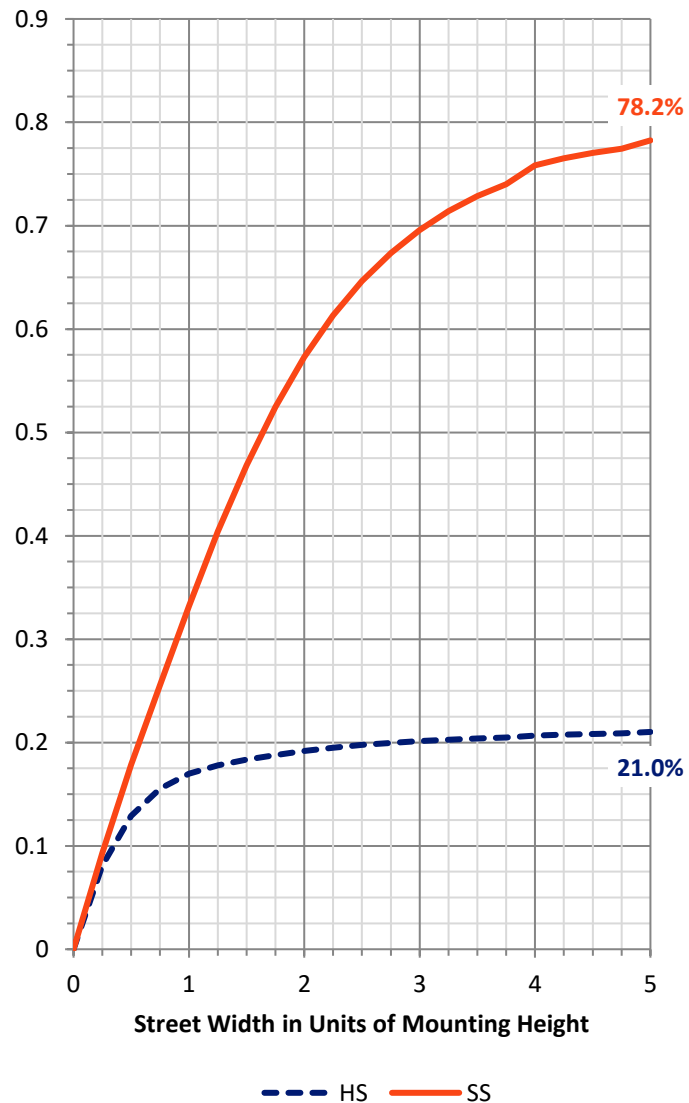
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1607.5	0.0	1607.5
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	5869.1	0.0	5869.1
	% Fixture	78.5	0.0	78.5
Total	Lumens	7476.6	0.0	7476.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	1.0
10°-20°	181.9	2.4
20°-30°	318.1	4.3
30°-40°	560.3	7.5
40°-50°	845.3	11.3
50°-60°	1344.5	18.0
60°-70°	1971.6	26.4
70°-80°	1848.8	24.7
80°-90°	333.8	4.5
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°	7476.6	100.0
0°-180°	7476.6	100.0

Coefficient of Utilization



REPORT NUMBER: P561341

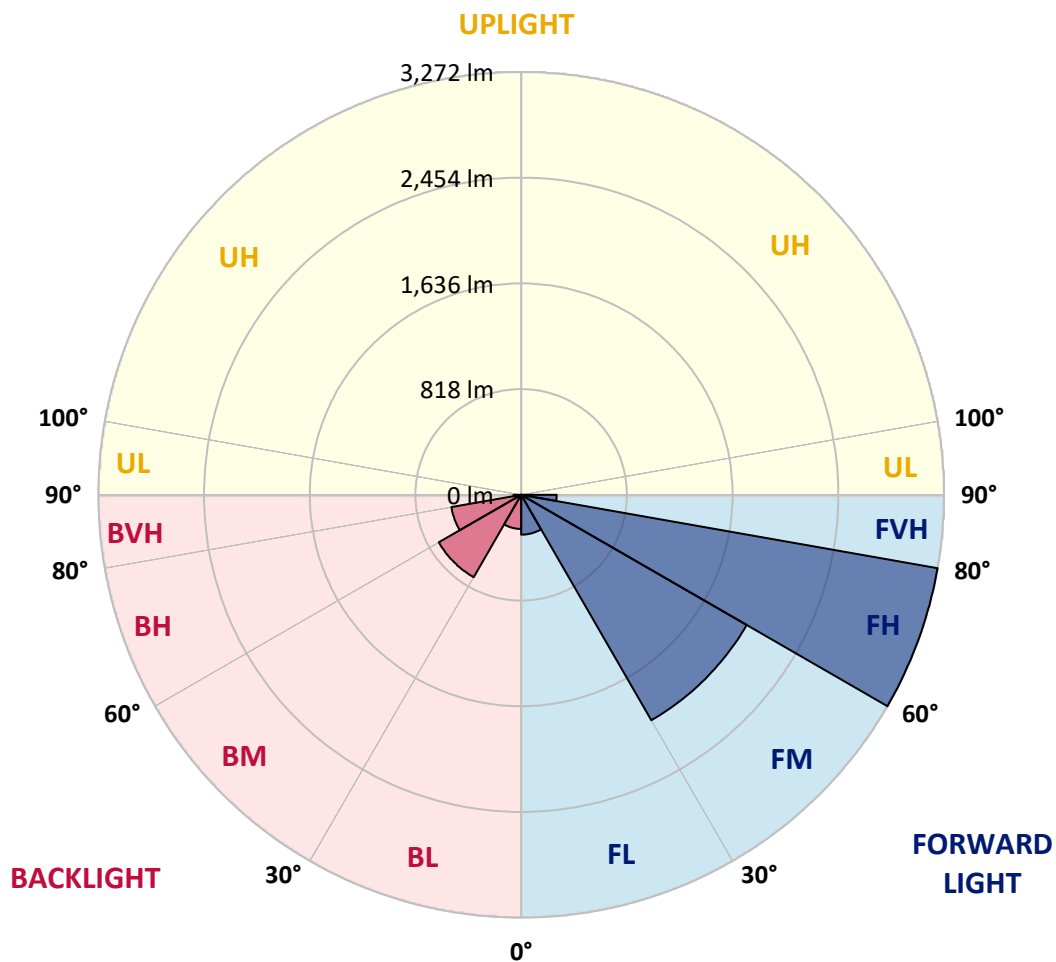
CATALOG NUMBER: SDL-PA1-90-827-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	308.3	4.1			
FM	(30°-60°)	2014.2	26.9			
FH	(60°-80°)	3271.7	43.8			G2/5000
FVH	(80°-90°)	274.9	3.7			G3/500
BL	(0°-30°)	264.0	3.5	B1/500		
BM	(30°-60°)	735.9	9.8	B1/1000		
BH	(60°-80°)	548.7	7.3	B2/1000		G2/1000
BVH	(80°-90°)	58.9	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



REPORT NUMBER: P561341

CATALOG NUMBER: SDL-PA1-90-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4
2.5°	789.4	822.5	839.1	855.6	861.1	866.7	866.7	863.9	863.9	863.9	869.4
5°	803.2	800.4	800.4	800.4	797.7	794.9	792.1	786.6	783.8	778.3	775.6
7.5°	736.9	792.1	794.9	797.7	797.7	794.9	800.4	805.9	800.4	792.1	781.1
10°	874.9	872.2	866.7	861.1	852.9	844.6	781.1	714.8	720.4	725.9	673.4
12.5°	759.0	811.5	833.5	855.6	858.4	858.4	814.2	767.3	706.6	645.8	621.0
15°	927.4	921.9	910.8	899.8	825.3	748.0	703.8	659.6	659.6	659.6	585.1
17.5°	781.1	778.3	828.0	877.7	850.1	822.5	759.0	695.5	601.7	505.1	565.8
20°	957.7	957.7	943.9	930.1	803.2	673.4	681.7	687.2	690.0	690.0	662.4
22.5°	803.2	797.7	803.2	805.9	805.9	805.9	690.0	574.1	637.6	698.3	634.8
25°	957.7	960.5	957.7	955.0	839.1	720.4	739.7	759.0	670.7	579.6	640.3
27.5°	836.3	833.5	819.7	805.9	808.7	811.5	750.7	687.2	723.1	759.0	695.5
30°	1024.0	1026.7	1018.5	1007.4	891.5	775.6	770.0	761.8	736.9	712.1	734.2
32.5°	1236.5	1236.5	1150.9	1065.4	993.6	919.1	858.4	797.7	822.5	847.3	819.7
35°	1349.7	1344.1	1316.5	1286.2	1153.7	1018.5	935.7	850.1	858.4	863.9	863.9
37.5°	1551.1	1548.4	1509.7	1471.1	1291.7	1109.5	1001.9	891.5	908.1	921.9	902.5
40°	1802.3	1802.3	1771.9	1738.8	1509.7	1277.9	1126.1	974.3	971.5	966.0	943.9
42.5°	2045.2	2053.5	2034.1	2014.8	1747.1	1479.4	1280.7	1081.9	1057.1	1032.3	1010.2
45°	2205.3	2216.3	2232.9	2249.4	1984.5	1719.5	1487.7	1253.1	1206.1	1156.5	1117.8
47.5°	2368.1	2351.5	2373.6	2395.7	2169.4	1943.1	1689.1	1435.2	1357.9	1280.7	1239.3
50°	2519.9	2514.4	2522.7	2531.0	2346.0	2161.1	1898.9	1636.7	1542.9	1446.3	1399.3
52.5°	2718.6	2699.3	2688.3	2677.2	2519.9	2362.6	2114.2	1863.0	1752.6	1639.5	1584.3
55°	2909.1	2900.8	2884.2	2864.9	2729.7	2594.4	2332.2	2070.0	1954.1	1838.2	1774.7
57.5°	3105.0	3099.5	3096.8	3094.0	2975.3	2856.6	2588.9	2318.4	2185.9	2050.7	1998.3
60°	3290.0	3292.7	3314.8	3334.1	3243.0	3152.0	2881.5	2611.0	2442.6	2271.5	2219.1
62.5°	3400.4	3408.6	3463.8	3516.3	3466.6	3416.9	3138.2	2856.6	2680.0	2500.6	2464.7
65°	3259.6	3301.0	3461.1	3621.2	3621.2	3621.2	3367.2	3110.6	2956.0	2801.4	2771.1
67.5°	2945.0	2986.4	3215.4	3441.8	3560.4	3679.1	3513.5	3347.9	3243.0	3135.4	3096.8
70°	2685.5	2710.4	2925.6	3138.2	3436.2	3734.3	3626.7	3516.3	3510.8	3502.5	3397.6
72.5°	2467.5	2522.7	2699.3	2873.2	3284.4	3695.7	3692.9	3690.2	3803.3	3916.5	3715.0
75°	1973.4	1967.9	2133.5	2299.1	2762.8	3223.7	3483.2	3739.8	4065.5	4388.5	4079.3
77.5°	880.5	941.2	1098.5	1255.8	1672.6	2086.6	2586.2	3085.7	3803.3	4518.2	4203.5
80°	251.2	265.0	309.1	350.5	546.5	739.7	1264.1	1785.7	2688.3	3588.0	3375.5
82.5°	132.5	138.0	165.6	190.4	245.6	298.1	496.8	692.8	1468.3	2241.1	2047.9
85°	63.5	58.0	74.5	88.3	118.7	149.0	229.1	309.1	568.6	828.0	714.8
87.5°	13.8	13.8	16.6	16.6	24.8	33.1	49.7	66.2	63.5	58.0	69.0
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: P561341

CATALOG NUMBER: SDL-PA1-90-827-U-T4W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4
2.5°	872.2	874.9	877.7	874.9	872.2	869.4	869.4	866.7	866.7	863.9	858.4
5°	772.8	811.5	850.1	852.9	855.6	855.6	852.9	850.1	844.6	841.8	836.3
7.5°	770.0	756.2	742.4	745.2	748.0	750.7	750.7	742.4	739.7	717.6	695.5
10°	618.2	604.4	590.6	598.9	607.2	637.6	654.1	648.6	643.1	604.4	563.0
12.5°	596.2	590.6	585.1	543.7	502.3	538.2	563.0	560.3	552.0	516.1	480.2
15°	510.6	513.4	513.4	560.3	607.2	637.6	659.6	654.1	648.6	604.4	560.3
17.5°	623.8	593.4	560.3	552.0	543.7	557.5	538.2	507.8	527.2	521.6	516.1
20°	632.0	557.5	480.2	557.5	634.8	654.1	695.5	692.8	684.5	645.8	607.2
22.5°	571.3	615.5	656.9	615.5	574.1	546.5	532.7	527.2	524.4	535.4	543.7
25°	701.0	618.2	532.7	634.8	734.2	756.2	767.3	759.0	756.2	706.6	656.9
27.5°	629.3	673.4	717.6	750.7	783.8	811.5	894.3	814.2	811.5	764.5	714.8
30°	753.5	800.4	847.3	932.9	1018.5	1065.4	1081.9	1076.4	1062.6	988.1	913.6
32.5°	792.1	886.0	977.1	1015.7	1051.6	1101.3	1126.1	1123.3	1109.5	1021.2	930.1
35°	863.9	932.9	1001.9	1054.3	1104.0	1150.9	1173.0	1181.3	1164.7	1054.3	941.2
37.5°	883.2	971.5	1059.9	1115.1	1170.3	1206.1	1225.5	1250.3	1231.0	1098.5	963.3
40°	921.9	1026.7	1128.9	1184.1	1236.5	1269.6	1302.7	1333.1	1308.3	1148.2	985.3
42.5°	985.3	1093.0	1197.9	1261.3	1322.1	1369.0	1407.6	1449.0	1402.1	1195.1	985.3
45°	1079.2	1178.5	1277.9	1363.5	1446.3	1504.2	1559.4	1617.4	1523.5	1255.8	985.3
47.5°	1197.9	1294.5	1388.3	1523.5	1658.8	1711.2	1777.5	1832.7	1680.9	1333.1	985.3
50°	1349.7	1457.3	1564.9	1744.3	1921.0	1970.7	2053.5	2094.9	1890.6	1451.8	1010.2
52.5°	1526.3	1645.0	1760.9	1970.7	2180.4	2263.2	2373.6	2401.2	2103.1	1570.5	1035.0
55°	1711.2	1871.3	2028.6	2260.5	2489.6	2569.6	2726.9	2749.0	2376.4	1716.7	1054.3
57.5°	1945.8	2133.5	2318.4	2544.8	2768.3	2881.5	3127.1	3135.4	2693.8	1896.1	1095.7
60°	2166.6	2401.2	2633.1	2848.4	3063.6	3240.3	3524.6	3527.3	2991.9	2031.4	1068.1
62.5°	2428.8	2707.6	2983.6	3168.5	3353.4	3571.5	3913.7	3864.0	3201.6	2047.9	894.3
65°	2738.0	3025.0	3312.0	3469.4	3623.9	3872.3	4242.2	4051.7	3259.6	1954.1	645.8
67.5°	3055.4	3323.1	3590.8	3715.0	3839.2	4153.9	4482.3	4073.8	3174.0	1813.3	449.9
70°	3292.7	3543.9	3795.0	3902.7	4010.3	4349.8	4554.1	3930.3	2933.9	1642.2	350.5
72.5°	3510.8	3748.1	3982.7	4037.9	4090.4	4264.3	4189.7	3463.8	2473.0	1382.8	289.8
75°	3770.2	3922.0	4071.1	3971.7	3872.3	3637.7	3215.4	2525.4	1810.6	1029.5	248.4
77.5°	3888.9	3853.0	3814.4	3474.9	3135.4	2506.1	1998.3	1460.1	919.1	565.8	212.5
80°	3163.0	3019.5	2873.2	2304.6	1736.1	1186.8	778.3	494.0	336.7	253.9	171.1
82.5°	1852.0	1518.0	1184.1	869.4	554.8	389.2	253.9	201.5	157.3	149.0	138.0
85°	598.9	529.9	460.9	364.3	267.7	165.6	96.6	88.3	82.8	91.1	96.6
87.5°	80.0	80.0	77.3	58.0	35.9	19.3	11.0	8.3	8.3	11.0	11.0
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: P561341

CATALOG NUMBER: SDL-PA1-90-827-U-T4W

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4
2.5°	858.4	855.6	852.9	850.1	847.3	841.8	819.7	797.7	789.4	778.3	770.0
5°	808.7	781.1	761.8	742.4	734.2	723.1	725.9	728.6	731.4	731.4	731.4
7.5°	701.0	706.6	709.3	709.3	717.6	723.1	728.6	731.4	720.4	709.3	695.5
10°	557.5	549.2	560.3	568.6	582.4	593.4	629.3	665.2	698.3	731.4	745.2
12.5°	507.8	535.4	513.4	491.3	535.4	576.8	626.5	676.2	706.6	734.2	709.3
15°	516.1	469.2	474.7	477.5	532.7	585.1	554.8	524.4	610.0	692.8	717.6
17.5°	507.8	499.6	529.9	557.5	505.1	452.6	527.2	598.9	637.6	676.2	665.2
20°	549.2	488.5	488.5	488.5	535.4	582.4	546.5	510.6	552.0	593.4	662.4
22.5°	568.6	590.6	546.5	499.6	529.9	560.3	560.3	557.5	604.4	648.6	637.6
25°	574.1	491.3	529.9	565.8	546.5	524.4	549.2	571.3	585.1	598.9	659.6
27.5°	656.9	598.9	554.8	507.8	543.7	579.6	571.3	563.0	574.1	585.1	598.9
30°	778.3	643.1	593.4	541.0	521.6	499.6	524.4	546.5	587.9	629.3	684.5
32.5°	814.2	695.5	615.5	532.7	529.9	524.4	532.7	538.2	585.1	629.3	706.6
35°	808.7	673.4	596.2	516.1	499.6	483.0	496.8	507.8	576.8	645.8	720.4
37.5°	803.2	640.3	560.3	480.2	469.2	455.4	469.2	483.0	535.4	587.9	656.9
40°	794.9	601.7	524.4	444.4	430.6	416.8	430.6	441.6	483.0	524.4	579.6
42.5°	775.6	563.0	485.8	405.7	394.7	380.9	391.9	403.0	438.8	474.7	507.8
45°	753.5	518.9	444.4	369.8	358.8	347.8	356.0	361.6	394.7	425.0	441.6
47.5°	728.6	472.0	403.0	334.0	322.9	311.9	320.2	325.7	350.5	375.4	380.9
50°	723.1	433.3	369.8	303.6	295.3	284.3	289.8	295.3	314.6	331.2	331.2
52.5°	712.1	386.4	334.0	278.8	273.2	265.0	267.7	270.5	284.3	298.1	295.3
55°	703.8	353.3	306.4	259.4	253.9	245.6	248.4	251.2	265.0	276.0	273.2
57.5°	712.1	325.7	284.3	240.1	234.6	229.1	234.6	240.1	253.9	267.7	267.7
60°	684.5	298.1	259.4	220.8	218.0	212.5	226.3	237.4	259.4	278.8	284.3
62.5°	585.1	273.2	240.1	207.0	209.8	209.8	234.6	256.7	287.0	314.6	320.2
65°	449.9	253.9	226.3	196.0	209.8	223.6	256.7	289.8	317.4	345.0	336.7
67.5°	345.0	240.1	218.0	193.2	223.6	251.2	281.5	311.9	325.7	336.7	322.9
70°	289.8	226.3	209.8	190.4	220.8	251.2	281.5	311.9	317.4	322.9	309.1
72.5°	253.9	215.3	198.7	182.2	207.0	231.8	267.7	300.8	306.4	309.1	295.3
75°	226.3	201.5	182.2	162.8	187.7	209.8	245.6	281.5	287.0	289.8	278.8
77.5°	198.7	184.9	162.8	140.8	165.6	190.4	223.6	256.7	265.0	273.2	259.4
80°	165.6	157.3	140.8	124.2	151.8	176.6	207.0	237.4	245.6	253.9	240.1
82.5°	132.5	127.0	115.9	104.9	132.5	160.1	190.4	218.0	226.3	231.8	215.3
85°	96.6	96.6	91.1	85.6	113.2	138.0	157.3	176.6	173.9	171.1	160.1
87.5°	13.8	13.8	19.3	24.8	33.1	38.6	49.7	58.0	60.7	60.7	46.9
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: P561341

CATALOG NUMBER: SDL-PA1-90-827-U-T4W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	869.4	869.4	869.4	869.4
2.5°	761.8	761.8	759.0	764.5
5°	731.4	734.2	734.2	736.9
7.5°	681.7	667.9	651.4	654.1
10°	759.0	761.8	764.5	764.5
12.5°	681.7	670.7	656.9	659.6
15°	739.7	748.0	756.2	759.0
17.5°	651.4	648.6	645.8	643.1
20°	728.6	742.4	756.2	756.2
22.5°	626.5	626.5	626.5	629.3
25°	720.4	736.9	750.7	750.7
27.5°	610.0	648.6	687.2	717.6
30°	736.9	745.2	753.5	756.2
32.5°	781.1	822.5	861.1	869.4
35°	792.1	811.5	828.0	836.3
37.5°	725.9	742.4	759.0	770.0
40°	632.0	645.8	659.6	667.9
42.5°	538.2	541.0	543.7	557.5
45°	458.2	444.4	430.6	427.8
47.5°	383.6	364.3	345.0	342.2
50°	328.4	311.9	295.3	295.3
52.5°	289.8	278.8	267.7	267.7
55°	270.5	265.0	256.7	256.7
57.5°	267.7	265.0	262.2	262.2
60°	287.0	289.8	289.8	289.8
62.5°	322.9	325.7	325.7	325.7
65°	325.7	320.2	314.6	314.6
67.5°	309.1	300.8	292.6	287.0
70°	292.6	287.0	278.8	270.5
72.5°	278.8	273.2	265.0	256.7
75°	265.0	256.7	245.6	240.1
77.5°	245.6	240.1	231.8	226.3
80°	223.6	218.0	209.8	198.7
82.5°	198.7	201.5	201.5	173.9
85°	146.3	138.0	127.0	104.9
87.5°	30.4	27.6	22.1	19.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)