

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: P561363

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

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561363
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-PA1-90-830-U-T4W
Description: Springdale
(1) 80 CRI, 3000K, 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: 8082.1 lumens
Efficiency: N/A
Efficacy: 87.5 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

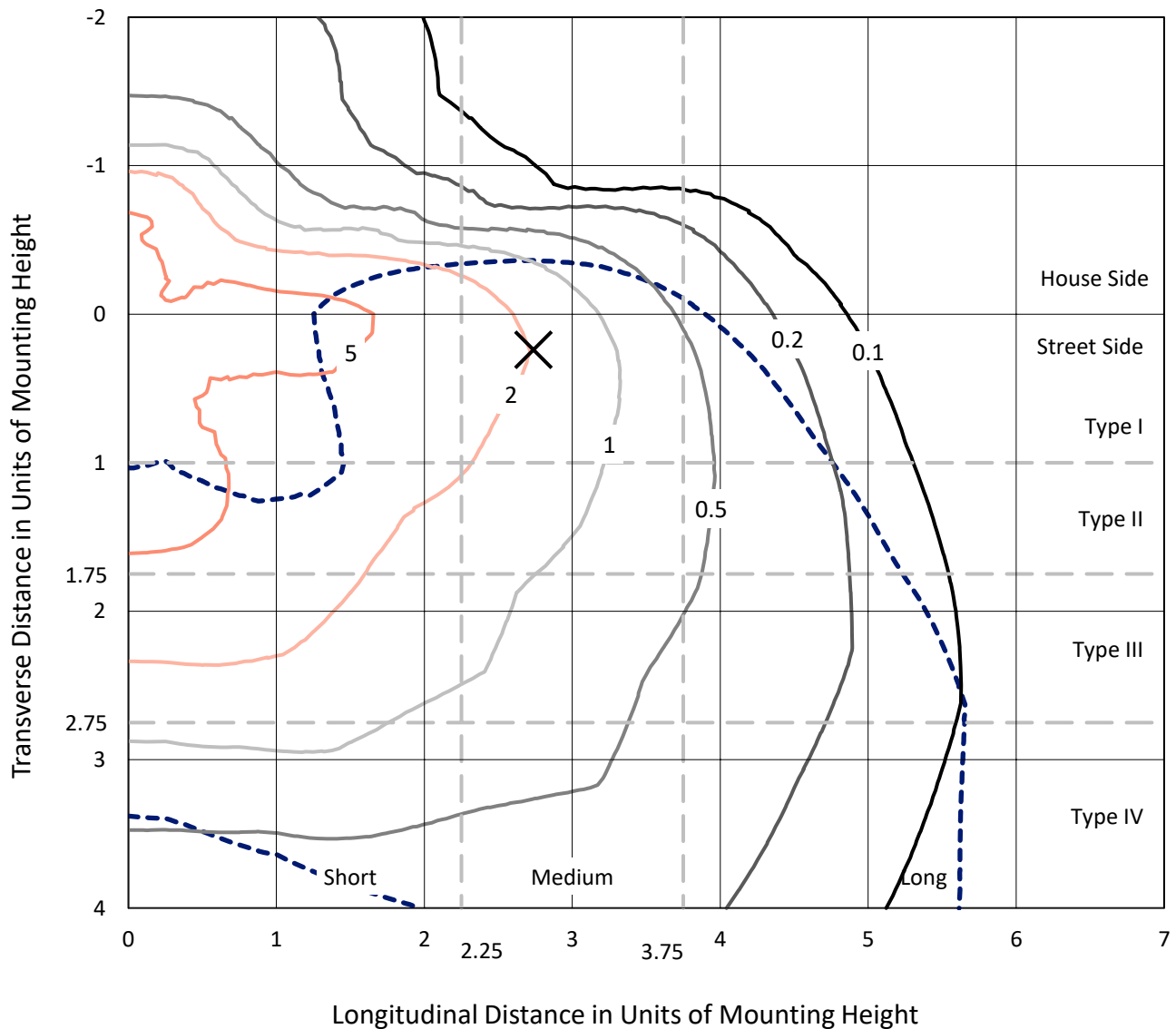


REPORT NUMBER: P561363

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

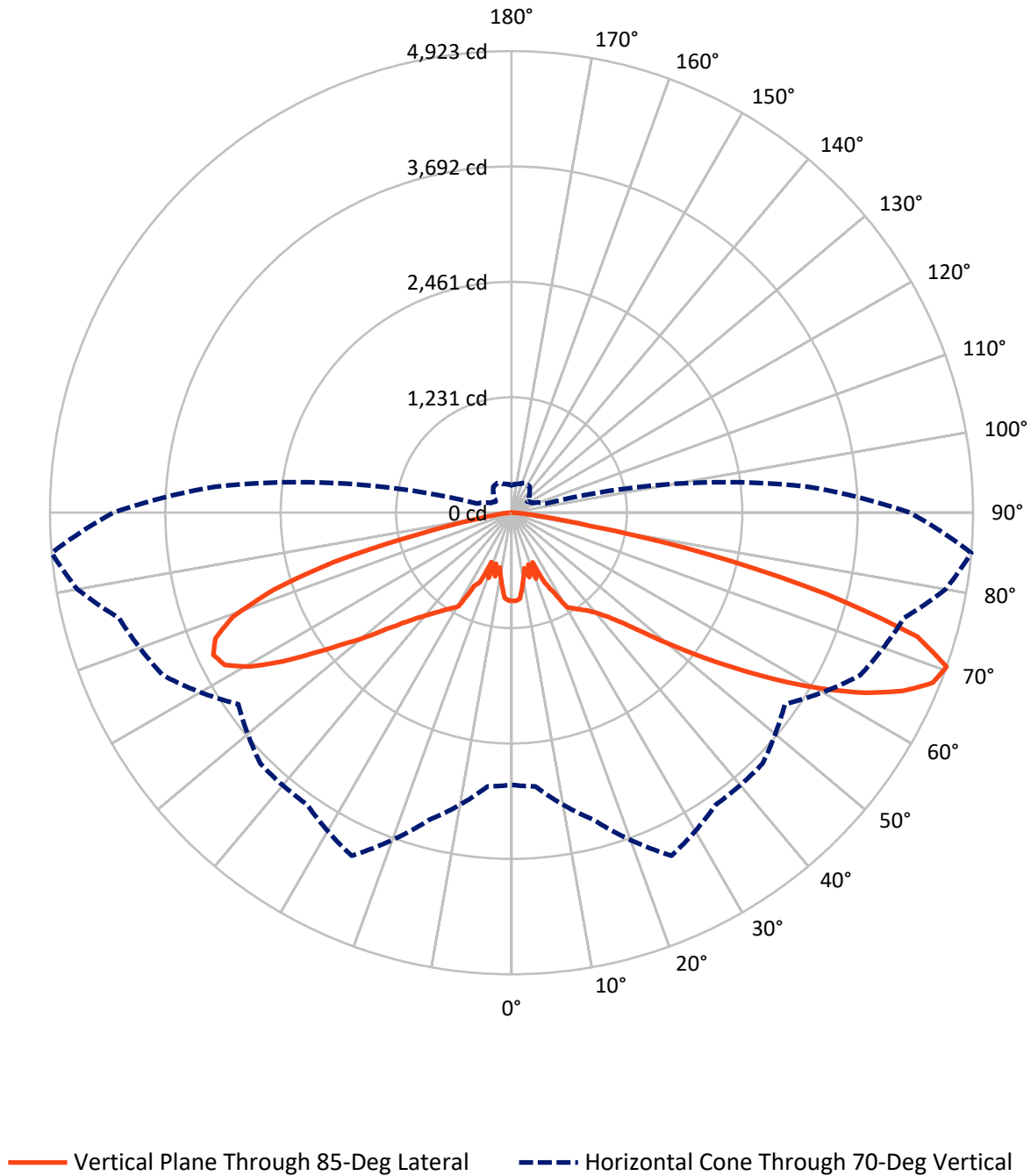


Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
Type IV - Medium - N/A

REPORT NUMBER: P561363

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

Luminous Intensity Polar Plot



REPORT NUMBER: P561363

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

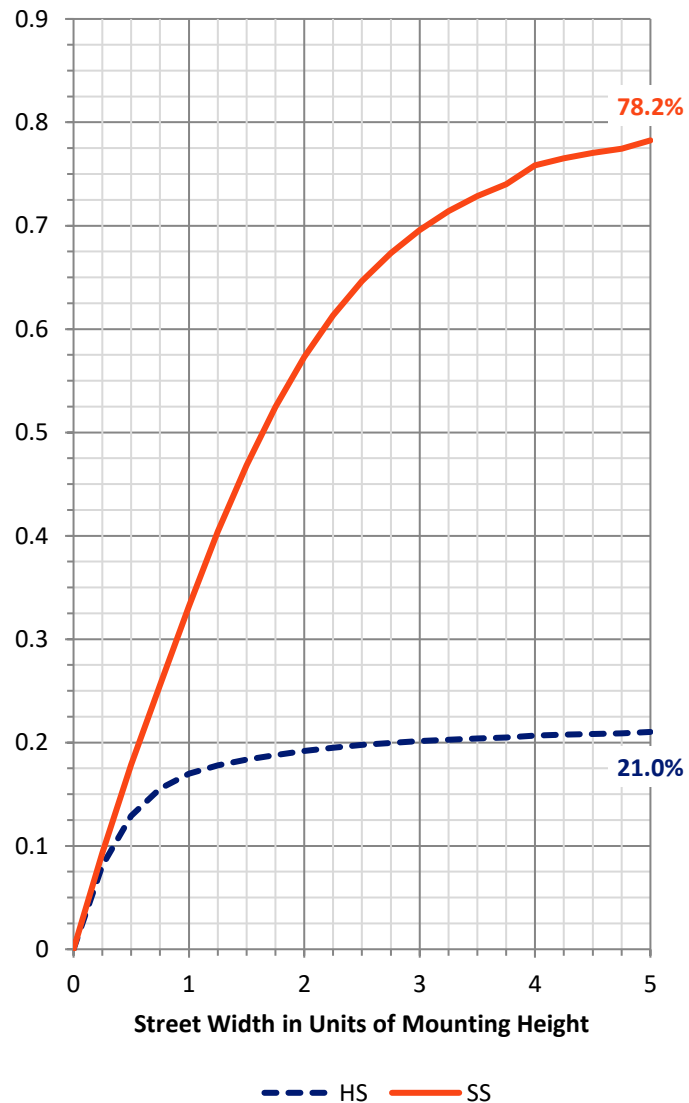
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1737.7	0.0	1737.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	6344.4	0.0	6344.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	8082.1	0.0	8082.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	1.0
10°-20°	196.7	2.4
20°-30°	343.9	4.3
30°-40°	605.7	7.5
40°-50°	913.7	11.3
50°-60°	1453.4	18.0
60°-70°	2131.3	26.4
70°-80°	1998.5	24.7
80°-90°	360.9	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°	8082.1	100.0
0°-180°	8082.1	100.0

Coefficient of Utilization



REPORT NUMBER: P561363

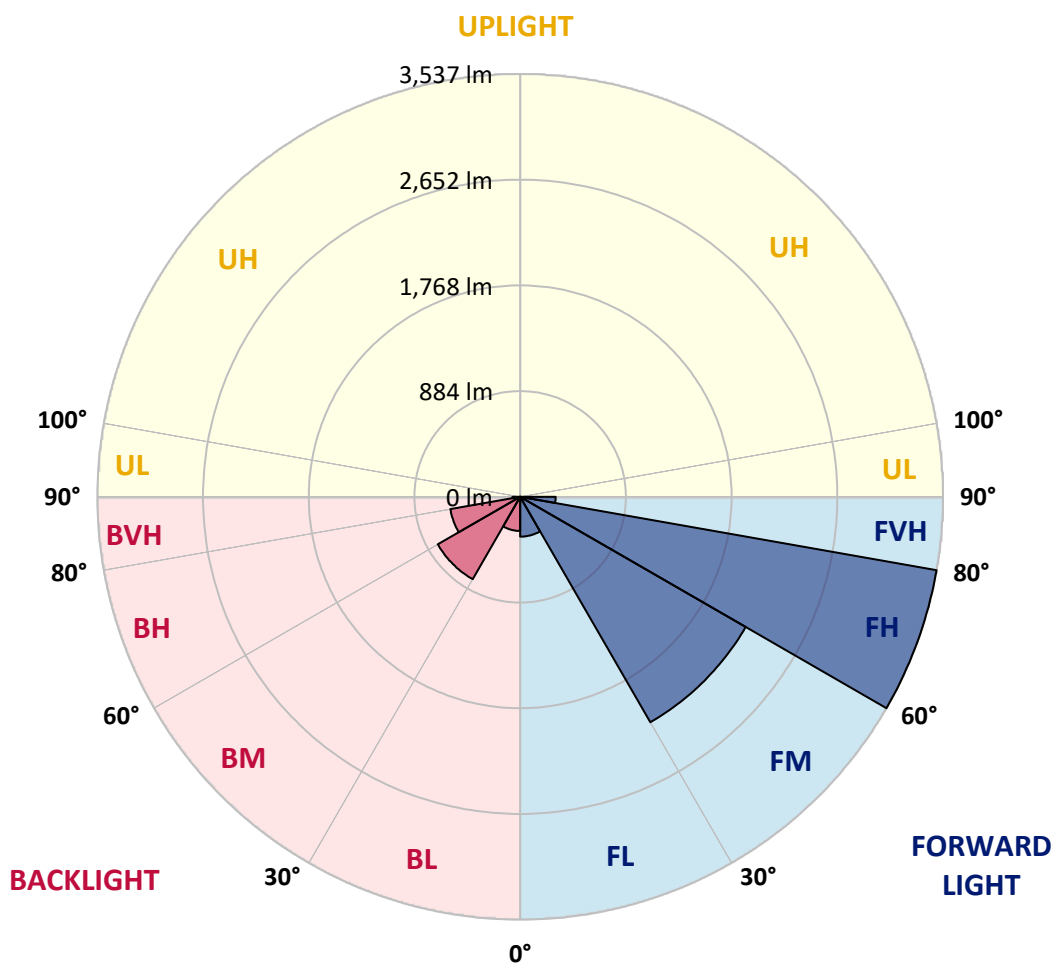
CATALOG NUMBER: SDL-PA1-90-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	333.3	4.1			
FM	(30°-60°)	2177.3	26.9			
FH	(60°-80°)	3536.6	43.8			G2/5000
FVH	(80°-90°)	297.1	3.7			G3/500
BL	(0°-30°)	285.4	3.5	B1/500		
BM	(30°-60°)	795.5	9.8	B1/1000		
BH	(60°-80°)	593.2	7.3	B2/1000		G2/1000
BVH	(80°-90°)	63.7	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: P561363

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	939.8	939.8	939.8	939.8	939.8	939.8	939.8	939.8	939.8	939.8	939.8
2.5°	853.3	889.1	907.0	924.9	930.9	936.8	936.8	933.8	933.8	933.8	939.8
5°	868.2	865.2	865.2	865.2	862.2	859.3	856.3	850.3	847.3	841.4	838.4
7.5°	796.6	856.3	859.3	862.2	862.2	859.3	865.2	871.2	865.2	856.3	844.3
10°	945.8	942.8	936.8	930.9	921.9	913.0	844.3	772.7	778.7	784.7	728.0
12.5°	820.5	877.2	901.0	924.9	927.9	927.9	880.1	829.4	763.8	698.1	671.3
15°	1002.5	996.5	984.6	972.6	892.1	808.5	760.8	713.1	713.1	713.1	632.5
17.5°	844.3	841.4	895.1	948.8	918.9	889.1	820.5	751.8	650.4	546.0	611.6
20°	1035.3	1035.3	1020.4	1005.4	868.2	728.0	736.9	742.9	745.9	745.9	716.0
22.5°	868.2	862.2	868.2	871.2	871.2	871.2	745.9	620.6	689.2	754.8	686.2
25°	1035.3	1038.3	1035.3	1032.3	907.0	778.7	799.6	820.5	725.0	626.5	692.2
27.5°	904.0	901.0	886.1	871.2	874.2	877.2	811.5	742.9	781.7	820.5	751.8
30°	1106.9	1109.9	1100.9	1089.0	963.7	838.4	832.4	823.5	796.6	769.7	793.6
32.5°	1336.6	1336.6	1244.1	1151.6	1074.1	993.5	927.9	862.2	889.1	915.9	886.1
35°	1458.9	1453.0	1423.1	1390.3	1247.1	1100.9	1011.4	918.9	927.9	933.8	933.8
37.5°	1676.7	1673.8	1632.0	1590.2	1396.3	1199.4	1083.0	963.7	981.6	996.5	975.6
40°	1948.2	1948.2	1915.4	1879.6	1632.0	1381.4	1217.3	1053.2	1050.2	1044.2	1020.4
42.5°	2210.8	2219.7	2198.9	2178.0	1888.6	1599.2	1384.4	1169.5	1142.7	1115.8	1092.0
45°	2383.8	2395.8	2413.7	2431.6	2145.2	1858.7	1608.1	1354.5	1303.8	1250.1	1208.3
47.5°	2559.9	2542.0	2565.8	2589.7	2345.0	2100.4	1825.9	1551.4	1467.9	1384.4	1339.6
50°	2724.0	2718.0	2726.9	2735.9	2536.0	2336.1	2052.7	1769.2	1667.8	1563.4	1512.6
52.5°	2938.8	2917.9	2905.9	2894.0	2724.0	2553.9	2285.4	2013.9	1894.5	1772.2	1712.5
55°	3144.6	3135.7	3117.8	3096.9	2950.7	2804.5	2521.1	2237.6	2112.3	1987.0	1918.4
57.5°	3356.5	3350.5	3347.5	3344.5	3216.2	3087.9	2798.5	2506.2	2362.9	2216.8	2160.1
60°	3556.4	3559.3	3583.2	3604.1	3505.6	3407.2	3114.8	2822.4	2640.4	2455.4	2398.7
62.5°	3675.7	3684.6	3744.3	3801.0	3747.3	3693.6	3392.3	3087.9	2897.0	2703.1	2664.3
65°	3523.5	3568.3	3741.3	3914.4	3914.4	3914.4	3639.9	3362.4	3195.3	3028.3	2995.5
67.5°	3183.4	3228.2	3475.8	3720.4	3848.7	3977.0	3798.0	3619.0	3505.6	3389.3	3347.5
70°	2903.0	2929.8	3162.5	3392.3	3714.5	4036.7	3920.3	3801.0	3795.0	3786.1	3672.7
72.5°	2667.3	2726.9	2917.9	3105.8	3550.4	3994.9	3991.9	3989.0	4111.3	4233.6	4015.8
75°	2133.2	2127.2	2306.3	2485.3	2986.5	3484.8	3765.2	4042.7	4394.7	4743.8	4409.6
77.5°	951.7	1017.4	1187.4	1357.5	1808.0	2255.5	2795.6	3335.6	4111.3	4884.0	4543.9
80°	271.5	286.4	334.2	378.9	590.7	799.6	1366.5	1930.3	2905.9	3878.6	3648.8
82.5°	143.2	149.2	179.0	205.9	265.5	322.2	537.0	748.9	1587.2	2422.6	2213.8
85°	68.6	62.7	80.6	95.5	128.3	161.1	247.6	334.2	614.6	895.1	772.7
87.5°	14.9	14.9	17.9	17.9	26.9	35.8	53.7	71.6	68.6	62.7	74.6
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: P561363

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	939.8	939.8	939.8	939.8	939.8	939.8	939.8	939.8	939.8	939.8	939.8
2.5°	942.8	945.8	948.8	945.8	942.8	939.8	939.8	936.8	936.8	933.8	927.9
5°	835.4	877.2	918.9	921.9	924.9	924.9	921.9	918.9	913.0	910.0	904.0
7.5°	832.4	817.5	802.6	805.6	808.5	811.5	811.5	802.6	799.6	775.7	751.8
10°	668.3	653.4	638.5	647.4	656.4	689.2	707.1	701.1	695.2	653.4	608.6
12.5°	644.4	638.5	632.5	587.8	543.0	581.8	608.6	605.7	596.7	557.9	519.1
15°	552.0	554.9	554.9	605.7	656.4	689.2	713.1	707.1	701.1	653.4	605.7
17.5°	674.3	641.5	605.7	596.7	587.8	602.7	581.8	549.0	569.9	563.9	557.9
20°	683.2	602.7	519.1	602.7	686.2	707.1	751.8	748.9	739.9	698.1	656.4
22.5°	617.6	665.3	710.1	665.3	620.6	590.7	575.8	569.9	566.9	578.8	587.8
25°	757.8	668.3	575.8	686.2	793.6	817.5	829.4	820.5	817.5	763.8	710.1
27.5°	680.2	728.0	775.7	811.5	847.3	877.2	966.7	880.1	877.2	826.4	772.7
30°	814.5	865.2	915.9	1008.4	1100.9	1151.6	1169.5	1163.6	1148.7	1068.1	987.5
32.5°	856.3	957.7	1056.2	1097.9	1136.7	1190.4	1217.3	1214.3	1199.4	1103.9	1005.4
35°	933.8	1008.4	1083.0	1139.7	1193.4	1244.1	1268.0	1276.9	1259.0	1139.7	1017.4
37.5°	954.7	1050.2	1145.7	1205.3	1265.0	1303.8	1324.7	1351.5	1330.6	1187.4	1041.2
40°	996.5	1109.9	1220.3	1279.9	1336.6	1372.4	1408.2	1441.0	1414.2	1241.1	1065.1
42.5°	1065.1	1181.5	1294.8	1363.5	1429.1	1479.8	1521.6	1566.3	1515.6	1291.9	1065.1
45°	1166.6	1274.0	1381.4	1473.9	1563.4	1626.0	1685.7	1748.3	1646.9	1357.5	1065.1
47.5°	1294.8	1399.3	1500.7	1646.9	1793.1	1849.8	1921.4	1981.1	1817.0	1441.0	1065.1
50°	1458.9	1575.3	1691.7	1885.6	2076.5	2130.2	2219.7	2264.5	2043.7	1569.3	1092.0
52.5°	1649.9	1778.2	1903.5	2130.2	2357.0	2446.5	2565.8	2595.7	2273.4	1697.6	1118.8
55°	1849.8	2022.8	2192.9	2443.5	2691.1	2777.7	2947.7	2971.6	2568.8	1855.7	1139.7
57.5°	2103.4	2306.3	2506.2	2750.8	2992.5	3114.8	3380.3	3389.3	2911.9	2049.7	1184.5
60°	2342.1	2595.7	2846.3	3079.0	3311.7	3502.7	3810.0	3812.9	3234.1	2195.9	1154.6
62.5°	2625.5	2926.8	3225.2	3425.1	3625.0	3860.7	4230.6	4176.9	3460.9	2213.8	966.7
65°	2959.7	3269.9	3580.2	3750.3	3917.4	4185.9	4585.7	4379.8	3523.5	2112.3	698.1
67.5°	3302.8	3592.2	3881.6	4015.8	4150.1	4490.2	4845.2	4403.7	3431.0	1960.2	486.3
70°	3559.3	3830.8	4102.3	4218.7	4335.1	4702.0	4922.8	4248.5	3171.5	1775.2	378.9
72.5°	3795.0	4051.6	4305.2	4364.9	4421.6	4609.5	4529.0	3744.3	2673.2	1494.7	313.3
75°	4075.5	4239.6	4400.7	4293.3	4185.9	3932.3	3475.8	2729.9	1957.2	1112.9	268.5
77.5°	4203.8	4165.0	4123.2	3756.3	3389.3	2709.0	2160.1	1578.3	993.5	611.6	229.7
80°	3419.1	3264.0	3105.8	2491.2	1876.6	1282.9	841.4	534.0	364.0	274.5	185.0
82.5°	2001.9	1640.9	1279.9	939.8	599.7	420.7	274.5	217.8	170.1	161.1	149.2
85°	647.4	572.8	498.2	393.8	289.4	179.0	104.4	95.5	89.5	98.5	104.4
87.5°	86.5	86.5	83.5	62.7	38.8	20.9	11.9	9.0	9.0	11.9	11.9
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: P561363

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	939.8	939.8	939.8	939.8	939.8	939.8	939.8	939.8	939.8	939.8	939.8
2.5°	927.9	924.9	921.9	918.9	915.9	910.0	886.1	862.2	853.3	841.4	832.4
5°	874.2	844.3	823.5	802.6	793.6	781.7	784.7	787.6	790.6	790.6	790.6
7.5°	757.8	763.8	766.8	766.8	775.7	781.7	787.6	790.6	778.7	766.8	751.8
10°	602.7	593.7	605.7	614.6	629.5	641.5	680.2	719.0	754.8	790.6	805.6
12.5°	549.0	578.8	554.9	531.1	578.8	623.6	677.3	731.0	763.8	793.6	766.8
15°	557.9	507.2	513.2	516.1	575.8	632.5	599.7	566.9	659.4	748.9	775.7
17.5°	549.0	540.0	572.8	602.7	546.0	489.3	569.9	647.4	689.2	731.0	719.0
20°	593.7	528.1	528.1	528.1	578.8	629.5	590.7	552.0	596.7	641.5	716.0
22.5°	614.6	638.5	590.7	540.0	572.8	605.7	605.7	602.7	653.4	701.1	689.2
25°	620.6	531.1	572.8	611.6	590.7	566.9	593.7	617.6	632.5	647.4	713.1
27.5°	710.1	647.4	599.7	549.0	587.8	626.5	617.6	608.6	620.6	632.5	647.4
30°	841.4	695.2	641.5	584.8	563.9	540.0	566.9	590.7	635.5	680.2	739.9
32.5°	880.1	751.8	665.3	575.8	572.8	566.9	575.8	581.8	632.5	680.2	763.8
35°	874.2	728.0	644.4	557.9	540.0	522.1	537.0	549.0	623.6	698.1	778.7
37.5°	868.2	692.2	605.7	519.1	507.2	492.3	507.2	522.1	578.8	635.5	710.1
40°	859.3	650.4	566.9	480.3	465.4	450.5	465.4	477.4	522.1	566.9	626.5
42.5°	838.4	608.6	525.1	438.6	426.6	411.7	423.7	435.6	474.4	513.2	549.0
45°	814.5	560.9	480.3	399.8	387.9	375.9	384.9	390.8	426.6	459.5	477.4
47.5°	787.6	510.2	435.6	361.0	349.1	337.1	346.1	352.1	378.9	405.8	411.7
50°	781.7	468.4	399.8	328.2	319.2	307.3	313.3	319.2	340.1	358.0	358.0
52.5°	769.7	417.7	361.0	301.3	295.4	286.4	289.4	292.4	307.3	322.2	319.2
55°	760.8	381.9	331.2	280.5	274.5	265.5	268.5	271.5	286.4	298.4	295.4
57.5°	769.7	352.1	307.3	259.6	253.6	247.6	253.6	259.6	274.5	289.4	289.4
60°	739.9	322.2	280.5	238.7	235.7	229.7	244.6	256.6	280.5	301.3	307.3
62.5°	632.5	295.4	259.6	223.8	226.7	226.7	253.6	277.5	310.3	340.1	346.1
65°	486.3	274.5	244.6	211.8	226.7	241.7	277.5	313.3	343.1	372.9	364.0
67.5°	372.9	259.6	235.7	208.8	241.7	271.5	304.3	337.1	352.1	364.0	349.1
70°	313.3	244.6	226.7	205.9	238.7	271.5	304.3	337.1	343.1	349.1	334.2
72.5°	274.5	232.7	214.8	196.9	223.8	250.6	289.4	325.2	331.2	334.2	319.2
75°	244.6	217.8	196.9	176.0	202.9	226.7	265.5	304.3	310.3	313.3	301.3
77.5°	214.8	199.9	176.0	152.2	179.0	205.9	241.7	277.5	286.4	295.4	280.5
80°	179.0	170.1	152.2	134.3	164.1	190.9	223.8	256.6	265.5	274.5	259.6
82.5°	143.2	137.2	125.3	113.4	143.2	173.0	205.9	235.7	244.6	250.6	232.7
85°	104.4	104.4	98.5	92.5	122.3	149.2	170.1	190.9	188.0	185.0	173.0
87.5°	14.9	14.9	20.9	26.9	35.8	41.8	53.7	62.7	65.6	65.6	50.7
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: P561363

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	939.8	939.8	939.8	939.8
2.5°	823.5	823.5	820.5	826.4
5°	790.6	793.6	793.6	796.6
7.5°	736.9	722.0	704.1	707.1
10°	820.5	823.5	826.4	826.4
12.5°	736.9	725.0	710.1	713.1
15°	799.6	808.5	817.5	820.5
17.5°	704.1	701.1	698.1	695.2
20°	787.6	802.6	817.5	817.5
22.5°	677.3	677.3	677.3	680.2
25°	778.7	796.6	811.5	811.5
27.5°	659.4	701.1	742.9	775.7
30°	796.6	805.6	814.5	817.5
32.5°	844.3	889.1	930.9	939.8
35°	856.3	877.2	895.1	904.0
37.5°	784.7	802.6	820.5	832.4
40°	683.2	698.1	713.1	722.0
42.5°	581.8	584.8	587.8	602.7
45°	495.3	480.3	465.4	462.4
47.5°	414.7	393.8	372.9	370.0
50°	355.0	337.1	319.2	319.2
52.5°	313.3	301.3	289.4	289.4
55°	292.4	286.4	277.5	277.5
57.5°	289.4	286.4	283.4	283.4
60°	310.3	313.3	313.3	313.3
62.5°	349.1	352.1	352.1	352.1
65°	352.1	346.1	340.1	340.1
67.5°	334.2	325.2	316.3	310.3
70°	316.3	310.3	301.3	292.4
72.5°	301.3	295.4	286.4	277.5
75°	286.4	277.5	265.5	259.6
77.5°	265.5	259.6	250.6	244.6
80°	241.7	235.7	226.7	214.8
82.5°	214.8	217.8	217.8	188.0
85°	158.1	149.2	137.2	113.4
87.5°	32.8	29.8	23.9	20.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)