

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: P560637

Luminaire Tested: **SDL-PA1-50-827-U-T4W**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P560637
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-PA1-50-827-U-T4W
Description: Springdale
(1) 80 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4704.4 lumens
Efficiency: N/A
Efficacy: 89.8 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: B1 - U0 - G2

Input Watts (W): 52.4
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

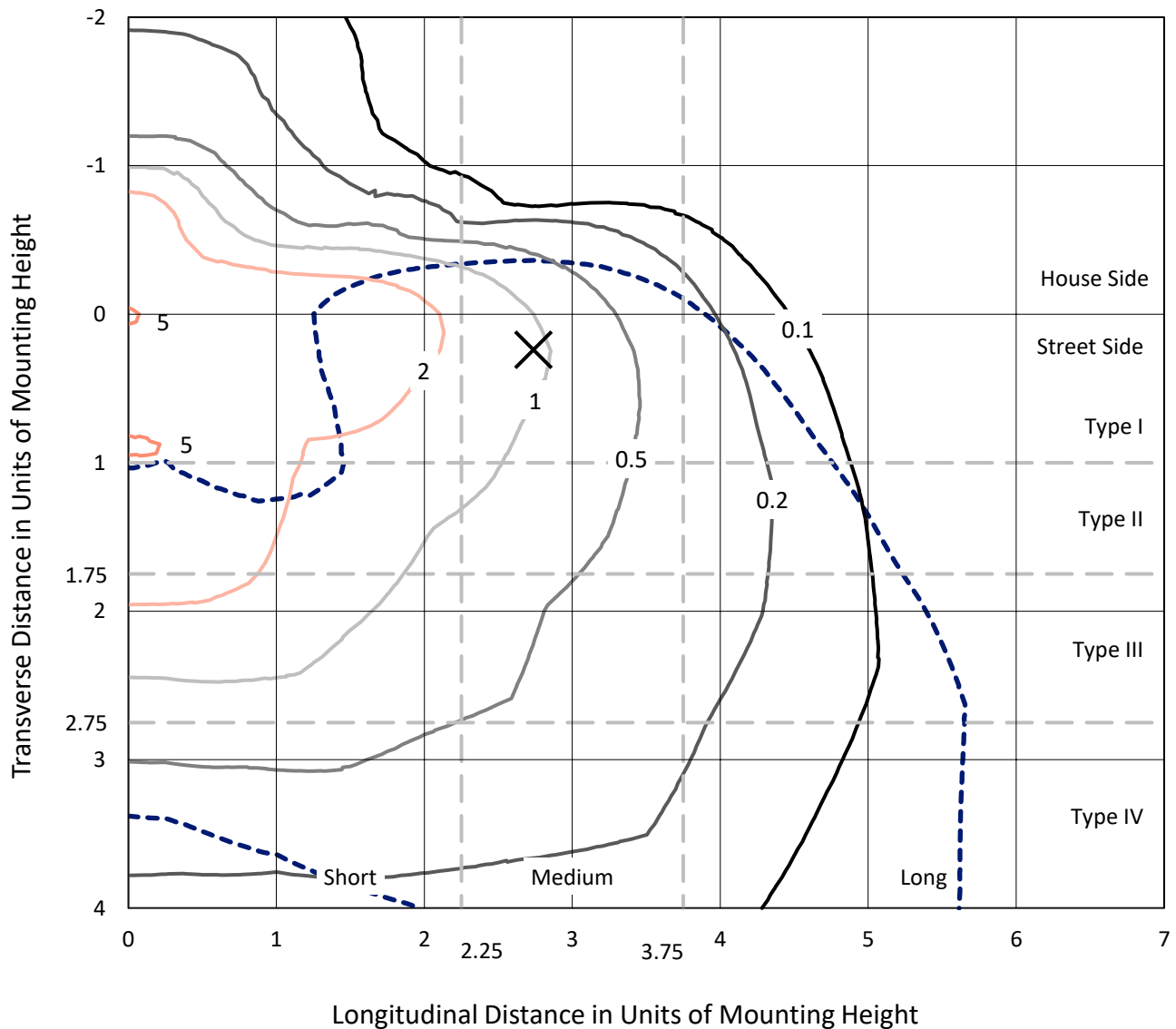


REPORT NUMBER: P560637

CATALOG NUMBER: SDL-PA1-50-827-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

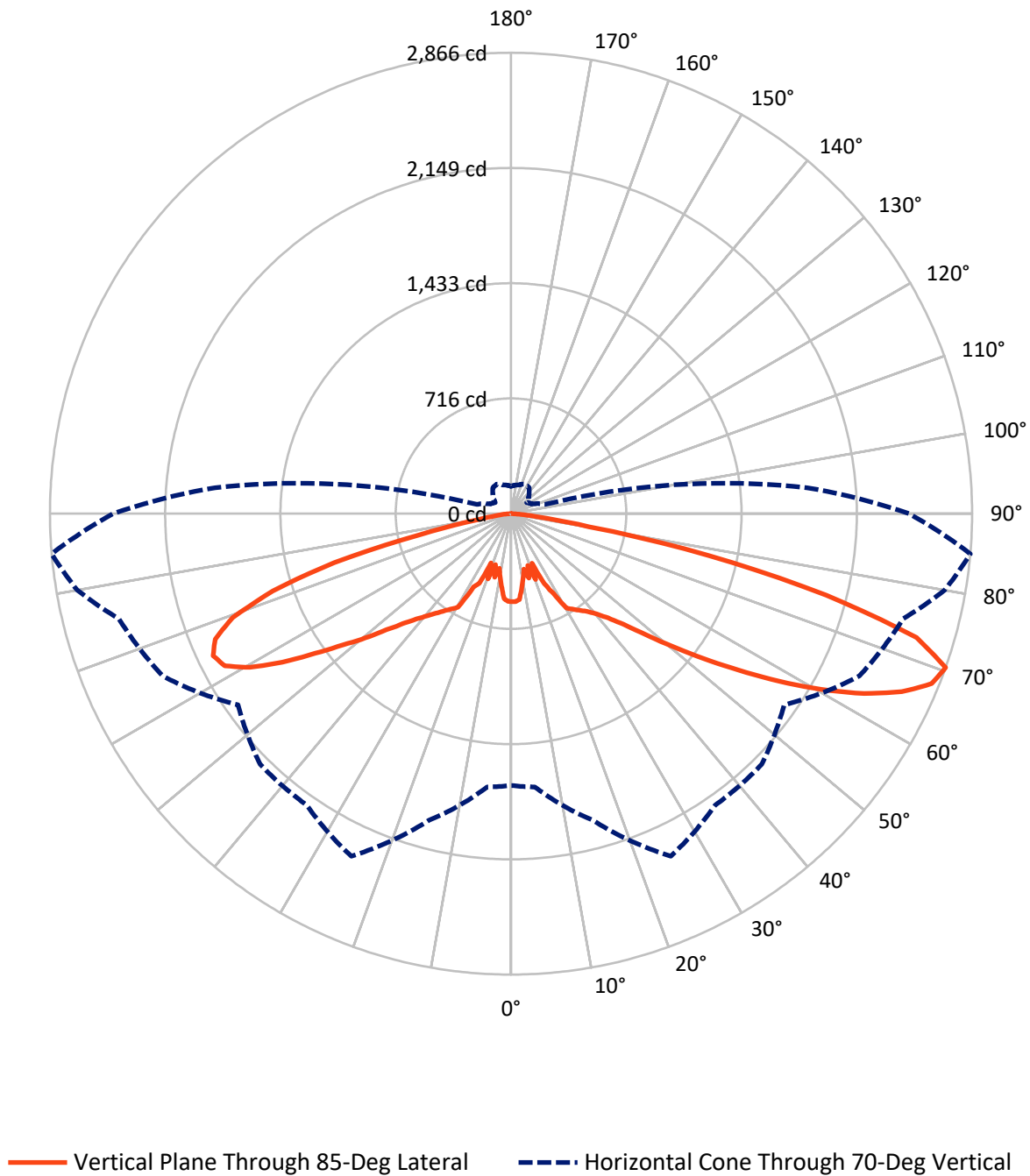


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Medium - N/A

REPORT NUMBER: P560637

CATALOG NUMBER: SDL-PA1-50-827-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P560637

CATALOG NUMBER: SDL-PA1-50-827-U-T4W

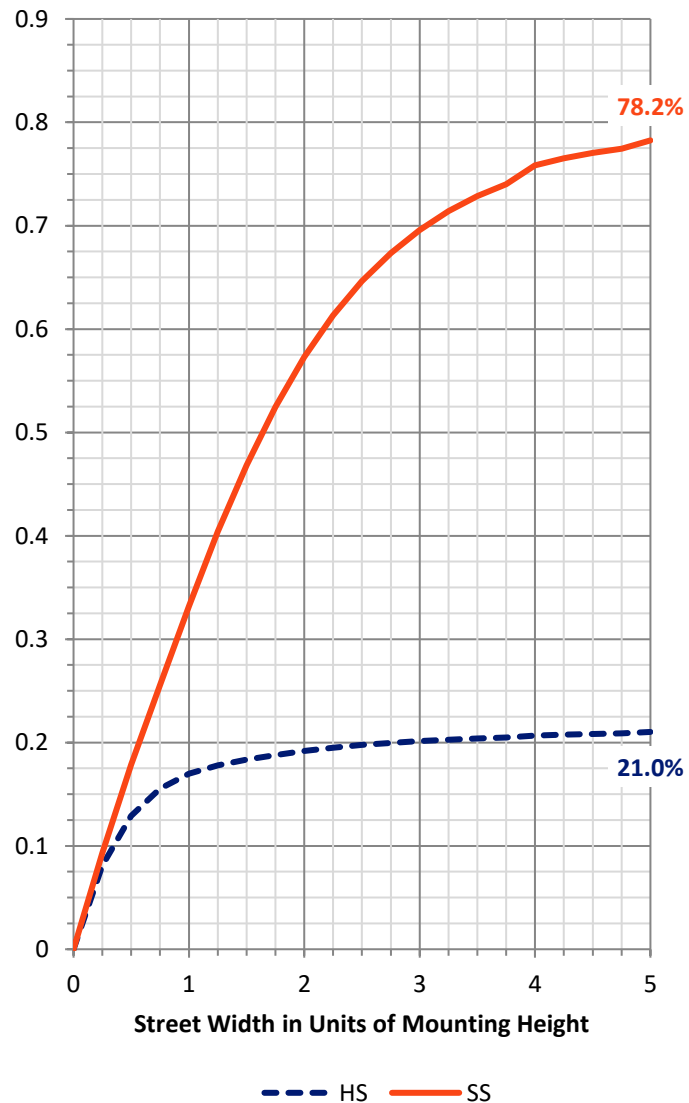
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1011.5	0.0	1011.5
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	3692.9	0.0	3692.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	4704.4	0.0	4704.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	1.0
10°-20°	114.5	2.4
20°-30°	200.2	4.3
30°-40°	352.6	7.5
40°-50°	531.9	11.3
50°-60°	846.0	18.0
60°-70°	1240.6	26.4
70°-80°	1163.3	24.7
80°-90°	210.1	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°	4704.4	100.0
0°-180°	4704.4	100.0

Coefficient of Utilization



REPORT NUMBER: P560637

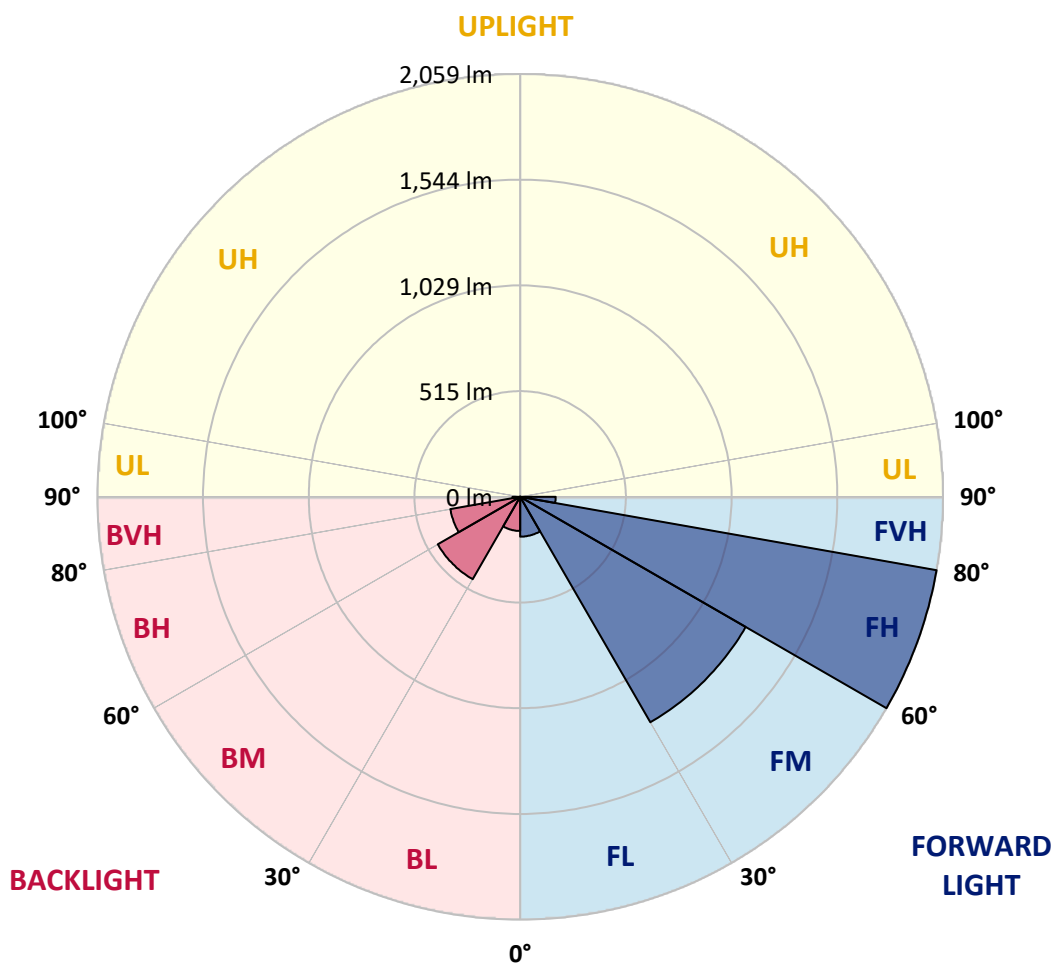
CATALOG NUMBER: SDL-PA1-50-827-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	194.0	4.1			
FM	(30°-60°)	1267.4	26.9			
FH	(60°-80°)	2058.6	43.8			G2/5000
FVH	(80°-90°)	173.0	3.7			G2/225
BL	(0°-30°)	166.1	3.5	B1/500		
BM	(30°-60°)	463.0	9.8	B1/1000		
BH	(60°-80°)	345.3	7.3	B1/500		G1/500
BVH	(80°-90°)	37.1	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



REPORT NUMBER: P560637

CATALOG NUMBER: SDL-PA1-50-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0
2.5°	496.7	517.5	527.9	538.4	541.8	545.3	545.3	543.6	543.6	543.6	547.0
5°	505.4	503.6	503.6	503.6	501.9	500.2	498.4	494.9	493.2	489.7	488.0
7.5°	463.7	498.4	500.2	501.9	501.9	500.2	503.6	507.1	503.6	498.4	491.5
10°	550.5	548.8	545.3	541.8	536.6	531.4	491.5	449.8	453.3	456.7	423.7
12.5°	477.6	510.6	524.5	538.4	540.1	540.1	512.3	482.8	444.6	406.4	390.7
15°	583.5	580.0	573.1	566.1	519.3	470.6	442.8	415.1	415.1	415.1	368.2
17.5°	491.5	489.7	521.0	552.3	534.9	517.5	477.6	437.6	378.6	317.8	356.0
20°	602.6	602.6	593.9	585.3	505.4	423.7	429.0	432.4	434.2	434.2	416.8
22.5°	505.4	501.9	505.4	507.1	507.1	507.1	434.2	361.2	401.2	439.4	399.4
25°	602.6	604.4	602.6	600.9	527.9	453.3	465.4	477.6	422.0	364.7	402.9
27.5°	526.2	524.5	515.8	507.1	508.8	510.6	472.4	432.4	455.0	477.6	437.6
30°	644.3	646.0	640.8	633.9	560.9	488.0	484.5	479.3	463.7	448.1	461.9
32.5°	778.0	778.0	724.2	670.3	625.2	578.3	540.1	501.9	517.5	533.2	515.8
35°	849.2	845.7	828.4	809.3	725.9	640.8	588.7	534.9	540.1	543.6	543.6
37.5°	976.0	974.3	949.9	925.6	812.8	698.1	630.4	560.9	571.4	580.0	567.9
40°	1134.0	1134.0	1114.9	1094.1	949.9	804.1	708.6	613.0	611.3	607.8	593.9
42.5°	1286.9	1292.1	1279.9	1267.8	1099.3	930.8	805.8	680.8	665.1	649.5	635.6
45°	1387.6	1394.5	1404.9	1415.4	1248.7	1081.9	936.1	788.4	758.9	727.7	703.3
47.5°	1490.0	1479.6	1493.5	1507.4	1365.0	1222.6	1062.8	903.1	854.4	805.8	779.8
50°	1585.6	1582.1	1587.3	1592.5	1476.2	1359.8	1194.8	1029.8	970.8	910.0	880.5
52.5°	1710.6	1698.4	1691.5	1684.5	1585.6	1486.6	1330.3	1172.2	1102.8	1031.6	996.8
55°	1830.4	1825.2	1814.8	1802.6	1717.5	1632.4	1467.5	1302.5	1229.5	1156.6	1116.7
57.5°	1953.7	1950.3	1948.5	1946.8	1872.1	1797.4	1629.0	1458.8	1375.4	1290.3	1257.3
60°	2070.1	2071.8	2085.7	2097.9	2040.6	1983.3	1813.1	1642.9	1536.9	1429.3	1396.3
62.5°	2139.6	2144.8	2179.5	2212.5	2181.2	2150.0	1974.6	1797.4	1686.3	1573.4	1550.8
65°	2051.0	2077.0	2177.8	2278.5	2278.5	2278.5	2118.7	1957.2	1860.0	1762.7	1743.6
67.5°	1853.0	1879.1	2023.2	2165.6	2240.3	2315.0	2210.8	2106.6	2040.6	1972.8	1948.5
70°	1689.8	1705.4	1840.8	1974.6	2162.1	2349.7	2282.0	2212.5	2209.0	2203.8	2137.8
72.5°	1552.6	1587.3	1698.4	1807.9	2066.6	2325.4	2323.6	2321.9	2393.1	2464.3	2337.5
75°	1241.7	1238.2	1342.4	1446.6	1738.4	2028.4	2191.6	2353.2	2558.1	2761.3	2566.8
77.5°	554.0	592.2	691.2	790.2	1052.4	1312.9	1627.2	1941.6	2393.1	2842.9	2644.9
80°	158.0	166.7	194.5	220.6	343.9	465.4	795.4	1123.6	1691.5	2257.6	2123.9
82.5°	83.4	86.8	104.2	119.8	154.6	187.6	312.6	435.9	923.9	1410.2	1288.6
85°	39.9	36.5	46.9	55.6	74.7	93.8	144.1	194.5	357.7	521.0	449.8
87.5°	8.7	8.7	10.4	10.4	15.6	20.8	31.3	41.7	39.9	36.5	43.4
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: P560637

CATALOG NUMBER: SDL-PA1-50-827-U-T4W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0
2.5°	548.8	550.5	552.3	550.5	548.8	547.0	547.0	545.3	545.3	543.6	540.1
5°	486.3	510.6	534.9	536.6	538.4	538.4	536.6	534.9	531.4	529.7	526.2
7.5°	484.5	475.8	467.2	468.9	470.6	472.4	472.4	467.2	465.4	451.5	437.6
10°	389.0	380.3	371.6	376.9	382.1	401.2	411.6	408.1	404.6	380.3	354.3
12.5°	375.1	371.6	368.2	342.1	316.1	338.6	354.3	352.5	347.3	324.8	302.2
15°	321.3	323.0	323.0	352.5	382.1	401.2	415.1	411.6	408.1	380.3	352.5
17.5°	392.5	373.4	352.5	347.3	342.1	350.8	338.6	319.5	331.7	328.2	324.8
20°	397.7	350.8	302.2	350.8	399.4	411.6	437.6	435.9	430.7	406.4	382.1
22.5°	359.5	387.3	413.3	387.3	361.2	343.9	335.2	331.7	330.0	336.9	342.1
25°	441.1	389.0	335.2	399.4	461.9	475.8	482.8	477.6	475.8	444.6	413.3
27.5°	396.0	423.7	451.5	472.4	493.2	510.6	562.7	512.3	510.6	481.1	449.8
30°	474.1	503.6	533.2	587.0	640.8	670.3	680.8	677.3	668.6	621.7	574.8
32.5°	498.4	557.5	614.8	639.1	661.7	692.9	708.6	706.8	698.1	642.6	585.3
35°	543.6	587.0	630.4	663.4	694.7	724.2	738.1	743.3	732.9	663.4	592.2
37.5°	555.7	611.3	666.9	701.6	736.3	758.9	771.1	786.7	774.5	691.2	606.1
40°	580.0	646.0	710.3	745.0	778.0	798.9	819.7	838.8	823.2	722.4	620.0
42.5°	620.0	687.7	753.7	793.6	831.9	861.4	885.7	911.7	882.2	752.0	620.0
45°	679.0	741.5	804.1	857.9	910.0	946.5	981.2	1017.7	958.6	790.2	620.0
47.5°	753.7	814.5	873.5	958.6	1043.7	1076.7	1118.4	1153.1	1057.6	838.8	620.0
50°	849.2	917.0	984.7	1097.6	1208.7	1240.0	1292.1	1318.1	1189.6	913.5	635.6
52.5°	960.4	1035.0	1108.0	1240.0	1372.0	1424.1	1493.5	1510.9	1323.3	988.2	651.2
55°	1076.7	1177.4	1276.4	1422.3	1566.5	1616.8	1715.8	1729.7	1495.3	1080.2	663.4
57.5°	1224.3	1342.4	1458.8	1601.2	1741.9	1813.1	1967.6	1972.8	1695.0	1193.1	689.4
60°	1363.3	1510.9	1656.8	1792.2	1927.7	2038.8	2217.7	2219.4	1882.5	1278.2	672.1
62.5°	1528.3	1703.7	1877.3	1993.7	2110.0	2247.2	2462.6	2431.3	2014.5	1288.6	562.7
65°	1722.8	1903.4	2084.0	2183.0	2280.2	2436.5	2669.2	2549.4	2051.0	1229.5	406.4
67.5°	1922.5	2090.9	2259.4	2337.5	2415.7	2613.7	2820.3	2563.3	1997.1	1141.0	283.1
70°	2071.8	2229.9	2387.9	2455.6	2523.3	2737.0	2865.5	2473.0	1846.1	1033.3	220.6
72.5°	2209.0	2358.4	2506.0	2540.7	2573.7	2683.1	2636.2	2179.5	1556.0	870.1	182.3
75°	2372.3	2467.8	2561.6	2499.0	2436.5	2288.9	2023.2	1589.0	1139.2	647.8	156.3
77.5°	2446.9	2424.4	2400.0	2186.4	1972.8	1576.9	1257.3	918.7	578.3	356.0	133.7
80°	1990.2	1899.9	1807.9	1450.1	1092.4	746.8	489.7	310.9	211.9	159.8	107.7
82.5°	1165.3	955.2	745.0	547.0	349.1	244.9	159.8	126.8	99.0	93.8	86.8
85°	376.9	333.4	290.0	229.2	168.5	104.2	60.8	55.6	52.1	57.3	60.8
87.5°	50.4	50.4	48.6	36.5	22.6	12.2	6.9	5.2	5.2	6.9	6.9
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: P560637

CATALOG NUMBER: SDL-PA1-50-827-U-T4W

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0
2.5°	540.1	538.4	536.6	534.9	533.2	529.7	515.8	501.9	496.7	489.7	484.5
5°	508.8	491.5	479.3	467.2	461.9	455.0	456.7	458.5	460.2	460.2	460.2
7.5°	441.1	444.6	446.3	446.3	451.5	455.0	458.5	460.2	453.3	446.3	437.6
10°	350.8	345.6	352.5	357.7	366.4	373.4	396.0	418.5	439.4	460.2	468.9
12.5°	319.5	336.9	323.0	309.1	336.9	363.0	394.2	425.5	444.6	461.9	446.3
15°	324.8	295.2	298.7	300.4	335.2	368.2	349.1	330.0	383.8	435.9	451.5
17.5°	319.5	314.3	333.4	350.8	317.8	284.8	331.7	376.9	401.2	425.5	418.5
20°	345.6	307.4	307.4	307.4	336.9	366.4	343.9	321.3	347.3	373.4	416.8
22.5°	357.7	371.6	343.9	314.3	333.4	352.5	352.5	350.8	380.3	408.1	401.2
25°	361.2	309.1	333.4	356.0	343.9	330.0	345.6	359.5	368.2	376.9	415.1
27.5°	413.3	376.9	349.1	319.5	342.1	364.7	359.5	354.3	361.2	368.2	376.9
30°	489.7	404.6	373.4	340.4	328.2	314.3	330.0	343.9	369.9	396.0	430.7
32.5°	512.3	437.6	387.3	335.2	333.4	330.0	335.2	338.6	368.2	396.0	444.6
35°	508.8	423.7	375.1	324.8	314.3	303.9	312.6	319.5	363.0	406.4	453.3
37.5°	505.4	402.9	352.5	302.2	295.2	286.5	295.2	303.9	336.9	369.9	413.3
40°	500.2	378.6	330.0	279.6	270.9	262.2	270.9	277.9	303.9	330.0	364.7
42.5°	488.0	354.3	305.7	255.3	248.3	239.7	246.6	253.6	276.1	298.7	319.5
45°	474.1	326.5	279.6	232.7	225.8	218.8	224.0	227.5	248.3	267.4	277.9
47.5°	458.5	297.0	253.6	210.1	203.2	196.2	201.5	204.9	220.6	236.2	239.7
50°	455.0	272.7	232.7	191.0	185.8	178.9	182.3	185.8	198.0	208.4	208.4
52.5°	448.1	243.1	210.1	175.4	171.9	166.7	168.5	170.2	178.9	187.6	185.8
55°	442.8	222.3	192.8	163.2	159.8	154.6	156.3	158.0	166.7	173.7	171.9
57.5°	448.1	204.9	178.9	151.1	147.6	144.1	147.6	151.1	159.8	168.5	168.5
60°	430.7	187.6	163.2	138.9	137.2	133.7	142.4	149.4	163.2	175.4	178.9
62.5°	368.2	171.9	151.1	130.2	132.0	132.0	147.6	161.5	180.6	198.0	201.5
65°	283.1	159.8	142.4	123.3	132.0	140.7	161.5	182.3	199.7	217.1	211.9
67.5°	217.1	151.1	137.2	121.6	140.7	158.0	177.1	196.2	204.9	211.9	203.2
70°	182.3	142.4	132.0	119.8	138.9	158.0	177.1	196.2	199.7	203.2	194.5
72.5°	159.8	135.5	125.0	114.6	130.2	145.9	168.5	189.3	192.8	194.5	185.8
75°	142.4	126.8	114.6	102.5	118.1	132.0	154.6	177.1	180.6	182.3	175.4
77.5°	125.0	116.4	102.5	88.6	104.2	119.8	140.7	161.5	166.7	171.9	163.2
80°	104.2	99.0	88.6	78.1	95.5	111.1	130.2	149.4	154.6	159.8	151.1
82.5°	83.4	79.9	72.9	66.0	83.4	100.7	119.8	137.2	142.4	145.9	135.5
85°	60.8	60.8	57.3	53.8	71.2	86.8	99.0	111.1	109.4	107.7	100.7
87.5°	8.7	8.7	12.2	15.6	20.8	24.3	31.3	36.5	38.2	38.2	29.5
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: P560637

CATALOG NUMBER: SDL-PA1-50-827-U-T4W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	547.0	547.0	547.0	547.0
2.5°	479.3	479.3	477.6	481.1
5°	460.2	461.9	461.9	463.7
7.5°	429.0	420.3	409.8	411.6
10°	477.6	479.3	481.1	481.1
12.5°	429.0	422.0	413.3	415.1
15°	465.4	470.6	475.8	477.6
17.5°	409.8	408.1	406.4	404.6
20°	458.5	467.2	475.8	475.8
22.5°	394.2	394.2	394.2	396.0
25°	453.3	463.7	472.4	472.4
27.5°	383.8	408.1	432.4	451.5
30°	463.7	468.9	474.1	475.8
32.5°	491.5	517.5	541.8	547.0
35°	498.4	510.6	521.0	526.2
37.5°	456.7	467.2	477.6	484.5
40°	397.7	406.4	415.1	420.3
42.5°	338.6	340.4	342.1	350.8
45°	288.3	279.6	270.9	269.2
47.5°	241.4	229.2	217.1	215.3
50°	206.7	196.2	185.8	185.8
52.5°	182.3	175.4	168.5	168.5
55°	170.2	166.7	161.5	161.5
57.5°	168.5	166.7	165.0	165.0
60°	180.6	182.3	182.3	182.3
62.5°	203.2	204.9	204.9	204.9
65°	204.9	201.5	198.0	198.0
67.5°	194.5	189.3	184.1	180.6
70°	184.1	180.6	175.4	170.2
72.5°	175.4	171.9	166.7	161.5
75°	166.7	161.5	154.6	151.1
77.5°	154.6	151.1	145.9	142.4
80°	140.7	137.2	132.0	125.0
82.5°	125.0	126.8	126.8	109.4
85°	92.0	86.8	79.9	66.0
87.5°	19.1	17.4	13.9	12.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)