

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: P559917

Luminaire Tested: **SDL-PA1-100-827-U-SL3**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P559917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-16)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-100-827-U-SL3
Description: Springdale
(1) 80 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7545.3 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 93.8
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

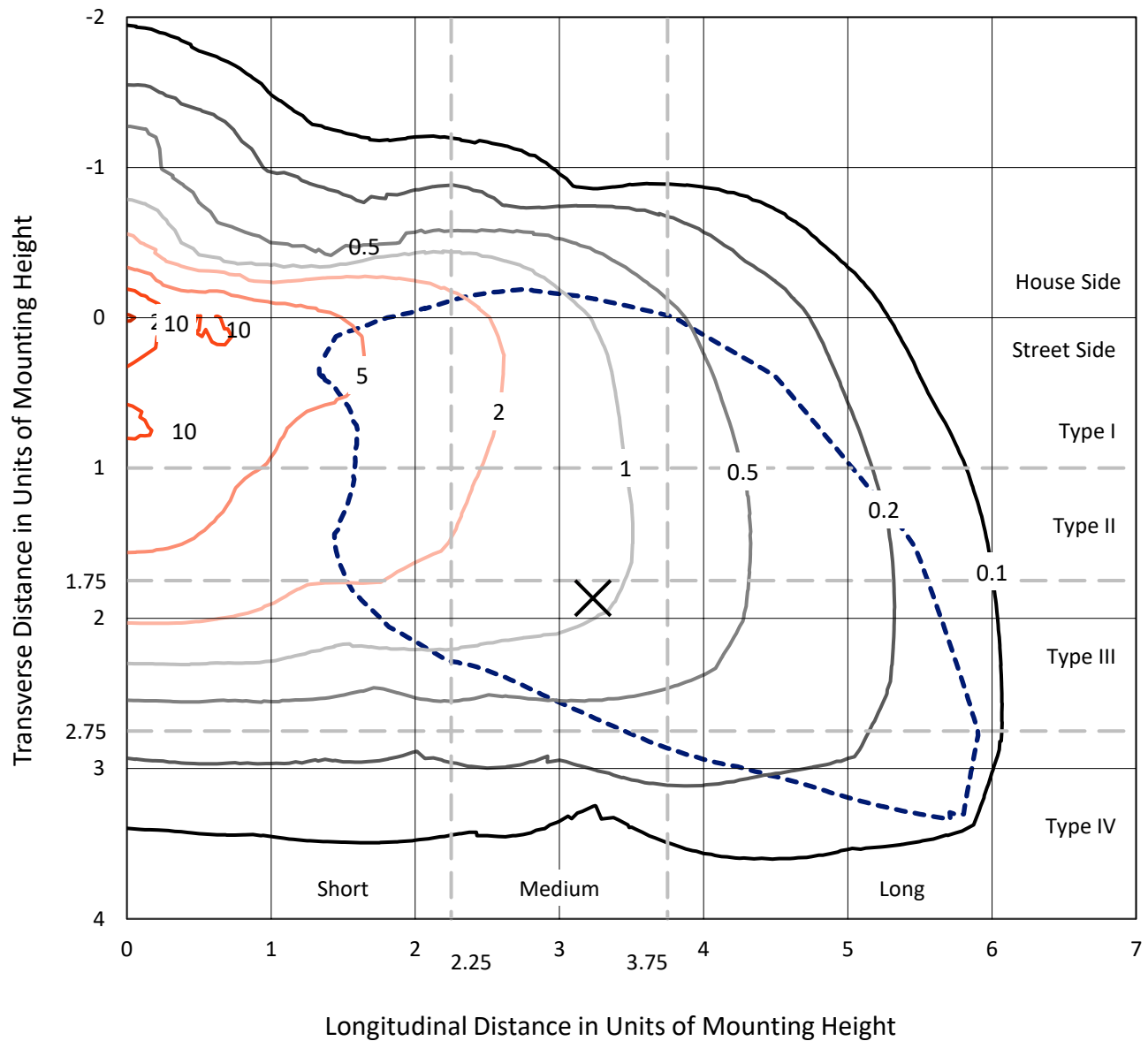


REPORT NUMBER: P559917

CATALOG NUMBER: SDL-PA1-100-827-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

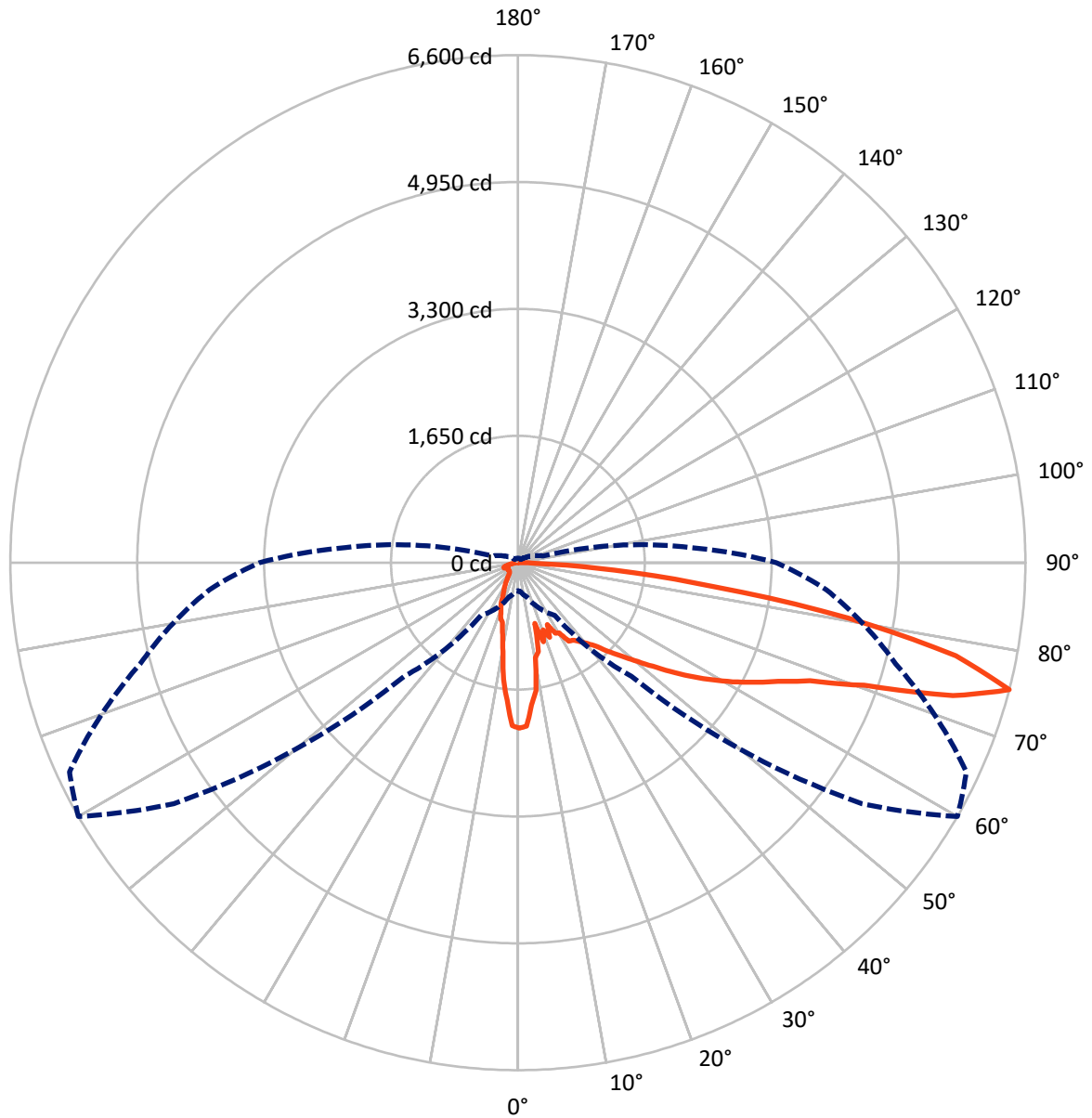


Based on 10 foot mounting height. Maximum calculated value = 21.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P559917

CATALOG NUMBER: SDL-PA1-100-827-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P559917

CATALOG NUMBER: SDL-PA1-100-827-U-SL3

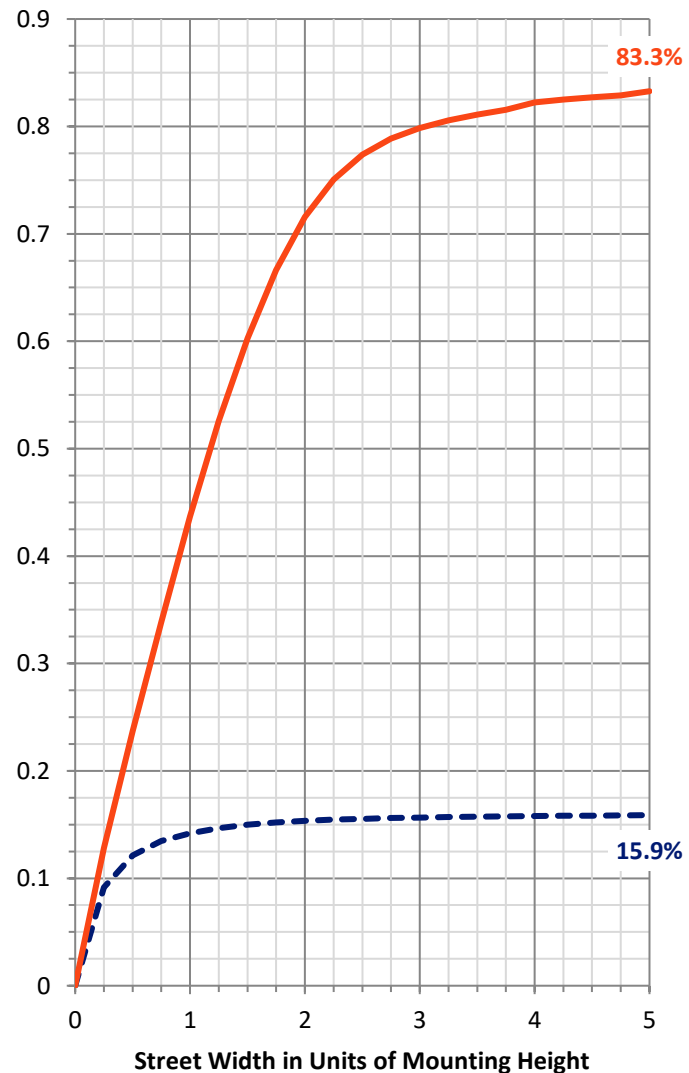
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1212.8	0.0	1212.8
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	6332.5	0.0	6332.5
	% Fixture	83.9	0.0	83.9
Total	Lumens	7545.3	0.0	7545.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.0	2.1
10°-20°	283.3	3.8
20°-30°	371.1	4.9
30°-40°	612.3	8.1
40°-50°	956.2	12.7
50°-60°	1455.8	19.3
60°-70°	1803.8	23.9
70°-80°	1593.5	21.1
80°-90°	312.4	4.1
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°	7545.3	100.0
0°-180°	7545.3	100.0



REPORT NUMBER: P559917

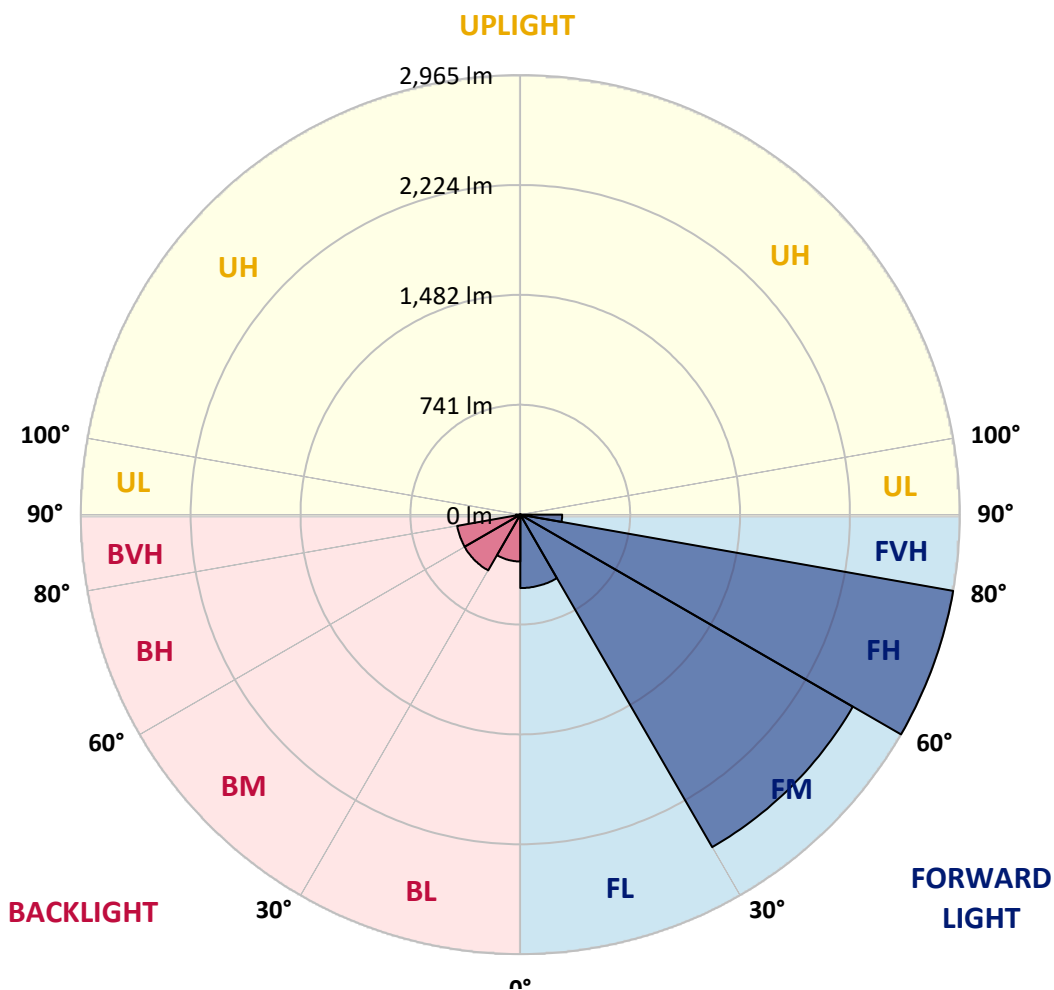
CATALOG NUMBER: SDL-PA1-100-827-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	495.4	6.6			
FM	(30°-60°)	2589.8	34.3			
FH	(60°-80°)	2964.8	39.3			G2/5000
FVH	(80°-90°)	282.6	3.7			G3/500
BL	(0°-30°)	316.0	4.2	B1/500		
BM	(30°-60°)	434.5	5.8	B1/1000		
BH	(60°-80°)	432.5	5.7	B1/500		G1/500
BVH	(80°-90°)	29.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Medium





REPORT NUMBER: P559917

CATALOG NUMBER: SDL-PA1-100-827-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2
2.5°	1787.5	1989.2	1942.3	1895.3	1967.1	2036.2	2058.3	2077.6	2088.7	2099.7	2110.8
5°	1660.4	1663.2	1666.0	1668.7	1677.0	1682.5	1693.6	1704.6	1715.7	1724.0	1735.0
7.5°	1281.9	1326.1	1398.0	1469.8	1514.0	1555.5	1580.3	1602.4	1619.0	1635.6	1652.2
10°	1425.6	1433.9	1436.7	1436.7	1450.5	1464.3	1359.3	1251.5	1304.0	1356.5	1298.5
12.5°	1118.9	1149.3	1240.5	1328.9	1356.5	1381.4	1331.7	1281.9	1204.6	1124.5	1118.9
15°	1284.7	1293.0	1295.8	1295.8	1210.1	1124.5	1066.4	1005.7	1052.6	1096.8	994.6
17.5°	994.6	1002.9	1074.7	1146.6	1160.4	1174.2	1113.4	1052.6	917.3	779.1	909.0
20°	1182.5	1188.0	1188.0	1188.0	1044.3	900.7	911.7	920.0	964.2	1008.4	972.5
22.5°	953.2	953.2	953.2	953.2	997.4	1038.8	950.4	862.0	911.7	961.5	917.3
25°	1199.1	1207.3	1188.0	1165.9	1033.3	900.7	942.1	983.6	909.0	834.4	900.7
27.5°	1094.1	1085.8	1047.1	1005.7	1025.0	1044.3	953.2	862.0	920.0	978.0	950.4
30°	1453.2	1428.4	1386.9	1345.5	1188.0	1030.5	1005.7	980.8	931.1	878.6	936.6
32.5°	1931.2	1867.7	1674.3	1480.9	1384.2	1287.5	1163.1	1038.8	1027.8	1013.9	1030.5
35°	2058.3	2016.8	1936.7	1853.8	1688.1	1519.5	1362.1	1201.8	1149.3	1094.1	1105.1
37.5°	2083.2	2069.3	2052.8	2033.4	1864.9	1696.4	1525.1	1353.8	1298.5	1240.5	1199.1
40°	2102.5	2113.5	2143.9	2171.6	2003.0	1831.7	1677.0	1519.5	1461.5	1400.7	1328.9
42.5°	2190.9	2221.3	2260.0	2295.9	2141.2	1986.5	1851.1	1715.7	1641.1	1566.5	1500.2
45°	2395.4	2411.9	2453.4	2492.0	2345.6	2196.4	2041.7	1884.2	1820.7	1757.1	1690.8
47.5°	2693.7	2721.4	2718.6	2715.8	2552.8	2387.1	2213.0	2036.2	1994.7	1950.5	1887.0
50°	3069.5	3050.1	2997.6	2945.1	2768.3	2588.7	2384.3	2177.1	2157.7	2135.6	2083.2
52.5°	3257.3	3243.5	3171.7	3097.1	2917.5	2737.9	2516.9	2293.1	2318.0	2342.9	2293.1
55°	3268.4	3260.1	3207.6	3155.1	2981.1	2807.0	2610.8	2414.7	2475.5	2536.3	2516.9
57.5°	3188.3	3191.0	3174.5	3155.1	3000.4	2845.7	2682.7	2519.7	2624.7	2726.9	2746.2
60°	2983.8	3025.3	3052.9	3080.5	2983.8	2887.1	2746.2	2605.3	2765.6	2925.8	2978.3
62.5°	2605.3	2641.2	2740.7	2837.4	2856.7	2873.3	2779.4	2682.7	2898.2	3110.9	3196.6
65°	2019.6	2069.3	2218.5	2367.7	2522.4	2677.2	2699.3	2721.4	3086.1	3450.7	3522.6
67.5°	1259.8	1287.5	1444.9	1599.7	1911.9	2221.3	2398.1	2574.9	3204.9	3832.0	3945.3
70°	665.8	707.3	784.6	859.2	1127.2	1395.2	1754.4	2113.5	3025.3	3937.0	4401.1
72.5°	505.6	522.2	563.6	605.1	699.0	792.9	1019.5	1246.0	2367.7	3486.7	4555.9
75°	364.7	378.5	422.7	464.2	558.1	649.3	743.2	834.4	1461.5	2088.7	3776.8
77.5°	212.7	218.3	240.4	259.7	406.1	552.6	654.8	754.2	906.2	1055.4	2696.5
80°	146.4	149.2	157.5	165.8	229.3	292.9	489.0	685.2	754.2	820.6	1787.5
82.5°	96.7	110.5	116.0	121.6	143.7	165.8	287.3	406.1	596.8	784.6	1221.2
85°	49.7	55.3	66.3	74.6	85.6	93.9	129.9	163.0	494.5	823.3	878.6
87.5°	5.5	8.3	11.1	11.1	13.8	16.6	24.9	33.2	149.2	265.2	226.5
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: P559917

CATALOG NUMBER: SDL-PA1-100-827-U-SL3

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2
2.5°	2121.8	2127.4	2124.6	2130.1	2132.9	2135.6	2138.4	2138.4	2135.6	2130.1	2124.6
5°	1746.1	1856.6	2044.5	2063.8	2083.2	2088.7	2094.2	2097.0	2091.4	2083.2	2074.9
7.5°	1666.0	1682.5	1514.0	1649.4	1782.0	1793.1	1801.3	1795.8	1798.6	1724.0	1646.6
10°	1240.5	1254.3	1259.8	1301.3	1340.0	1431.1	1522.3	1508.5	1497.4	1364.8	1229.4
12.5°	1113.4	1185.2	1201.8	1132.7	1063.7	1157.6	1251.5	1240.5	1221.2	1099.6	978.0
15°	892.4	817.8	978.0	1127.2	1273.7	1362.1	1447.7	1422.8	1400.7	1246.0	1088.5
17.5°	1036.1	1080.3	1027.8	1049.9	1072.0	1138.3	1201.8	1163.1	1149.3	1041.6	931.1
20°	936.6	933.8	897.9	1027.8	1157.6	1287.5	1414.6	1375.9	1309.6	1099.6	886.9
22.5°	873.0	1052.6	1130.0	1113.4	1094.1	1044.3	991.8	958.7	909.0	862.0	812.3
25°	964.2	889.6	950.4	1149.3	1345.5	1381.4	1417.3	1334.4	1226.7	1013.9	801.2
27.5°	922.8	1038.8	1116.2	1248.8	1378.6	1503.0	1627.3	1516.8	1375.9	1110.6	842.7
30°	994.6	1058.2	1273.7	1522.3	1771.0	1815.2	1856.6	1704.6	1516.8	1248.8	980.8
32.5°	1047.1	1215.6	1406.3	1599.7	1790.3	1823.5	1856.6	1685.3	1469.8	1174.2	878.6
35°	1113.4	1237.7	1411.8	1638.3	1864.9	1873.2	1878.7	1679.8	1436.7	1102.4	765.3
37.5°	1157.6	1298.5	1486.4	1726.8	1967.1	1950.5	1931.2	1704.6	1425.6	1052.6	679.6
40°	1257.1	1378.6	1580.3	1826.2	2072.1	2044.5	2016.8	1757.1	1428.4	1002.9	574.7
42.5°	1431.1	1478.1	1696.4	1958.8	2221.3	2190.9	2157.7	1848.3	1461.5	975.3	486.3
45°	1621.8	1643.9	1831.7	2130.1	2428.5	2389.8	2351.1	1989.2	1522.3	961.5	400.6
47.5°	1820.7	1815.2	1989.2	2351.1	2710.3	2627.4	2544.5	2155.0	1635.6	989.1	342.6
50°	2027.9	2019.6	2188.1	2577.7	2967.3	2878.8	2790.4	2353.9	1765.4	1038.8	309.4
52.5°	2240.6	2260.0	2384.3	2790.4	3193.8	3113.7	3030.8	2569.4	1892.5	1094.1	295.6
55°	2494.8	2555.6	2605.3	3011.5	3417.6	3337.5	3254.6	2790.4	2069.3	1179.7	290.1
57.5°	2762.8	2842.9	2865.0	3235.2	3605.5	3553.0	3497.7	3000.4	2248.9	1279.2	306.7
60°	3030.8	3135.8	3215.9	3514.3	3809.9	3749.1	3688.3	3213.1	2417.5	1389.7	361.9
62.5°	3279.4	3425.9	3555.7	3774.0	3989.5	3917.7	3845.8	3398.2	2608.1	1541.6	472.4
65°	3591.6	3721.5	3862.4	4006.1	4147.0	4077.9	4008.8	3630.3	2862.3	1732.3	599.5
67.5°	4058.6	4097.2	4169.1	4257.5	4343.1	4301.7	4257.5	3914.9	3083.3	1842.8	599.5
70°	4862.5	4776.9	4669.1	4666.4	4660.8	4594.5	4525.5	4075.1	3097.1	1798.6	500.1
72.5°	5622.3	5915.2	5572.6	5323.9	5075.3	4782.4	4486.8	3859.6	2735.2	1566.5	397.8
75°	5462.1	6600.3	6434.6	5760.4	5086.3	4555.9	4025.4	3362.3	2251.7	1295.8	339.8
77.5°	4334.8	5824.0	5981.5	5362.6	4741.0	4022.6	3301.6	2599.8	1561.0	922.8	284.6
80°	2751.8	4354.2	4381.8	3807.1	3229.7	2458.9	1688.1	1132.7	751.5	489.0	226.5
82.5°	1657.7	2577.7	2243.4	1608.0	972.5	674.1	373.0	359.2	276.3	204.4	132.6
85°	933.8	1262.6	906.2	594.0	281.8	201.7	118.8	127.1	121.6	99.5	74.6
87.5°	185.1	218.3	149.2	85.6	22.1	22.1	19.3	19.3	13.8	13.8	11.1
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: P559917

CATALOG NUMBER: SDL-PA1-100-827-U-SL3

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2	2152.2
2.5°	2124.6	2124.6	2119.1	2113.5	2110.8	2108.0	2025.1	1942.3	1887.0	1829.0	1815.2
5°	1972.6	1870.4	1793.1	1715.7	1699.1	1682.5	1679.8	1677.0	1668.7	1657.7	1654.9
7.5°	1558.2	1467.0	1530.6	1591.4	1580.3	1566.5	1558.2	1547.2	1527.8	1508.5	1411.8
10°	1199.1	1168.7	1168.7	1165.9	1143.8	1121.7	1171.4	1221.2	1276.4	1331.7	1326.1
12.5°	1022.2	1063.7	955.9	845.4	906.2	964.2	1019.5	1072.0	1099.6	1127.2	1041.6
15°	964.2	837.1	801.2	765.3	792.9	820.6	740.4	657.5	721.1	784.6	798.5
17.5°	864.8	798.5	762.5	723.9	618.9	511.1	547.0	583.0	580.2	577.4	563.6
20°	806.7	723.9	660.3	594.0	544.3	494.5	442.0	386.8	361.9	334.3	400.6
22.5°	768.1	723.9	591.2	458.6	419.9	381.3	339.8	295.6	312.2	326.0	337.1
25°	671.4	538.7	464.2	389.6	328.8	265.2	268.0	270.8	256.9	243.1	306.7
27.5°	679.6	513.9	397.8	281.8	259.7	234.8	221.0	204.4	226.5	245.9	251.4
30°	712.8	444.8	337.1	229.3	204.4	179.6	187.9	193.4	193.4	193.4	221.0
32.5°	632.7	386.8	287.3	185.1	171.3	154.7	157.5	157.5	171.3	185.1	198.9
35°	536.0	303.9	234.8	163.0	149.2	135.4	140.9	146.4	160.2	174.1	193.4
37.5°	461.4	240.4	193.4	146.4	138.1	129.9	132.6	135.4	149.2	160.2	176.8
40°	389.6	201.7	171.3	140.9	132.6	124.3	127.1	127.1	138.1	149.2	160.2
42.5°	337.1	185.1	163.0	138.1	129.9	118.8	121.6	121.6	129.9	138.1	146.4
45°	290.1	176.8	157.5	135.4	127.1	116.0	116.0	113.3	121.6	127.1	132.6
47.5°	259.7	174.1	154.7	135.4	124.3	110.5	107.7	105.0	113.3	118.8	127.1
50°	243.1	174.1	154.7	132.6	118.8	105.0	102.2	99.5	110.5	118.8	132.6
52.5°	237.6	176.8	154.7	132.6	116.0	99.5	99.5	99.5	118.8	138.1	143.7
55°	237.6	182.3	157.5	129.9	113.3	96.7	102.2	107.7	113.3	118.8	118.8
57.5°	243.1	179.6	152.0	124.3	113.3	99.5	96.7	93.9	96.7	99.5	99.5
60°	268.0	174.1	146.4	118.8	105.0	91.2	88.4	85.6	91.2	93.9	93.9
62.5°	323.2	171.3	146.4	118.8	102.2	85.6	85.6	82.9	85.6	88.4	91.2
65°	395.1	190.6	154.7	118.8	102.2	85.6	80.1	74.6	80.1	82.9	82.9
67.5°	411.7	223.8	179.6	132.6	107.7	82.9	77.4	71.8	77.4	80.1	80.1
70°	373.0	245.9	193.4	140.9	113.3	82.9	77.4	69.1	71.8	74.6	71.8
72.5°	320.5	240.4	190.6	138.1	110.5	80.1	74.6	66.3	69.1	69.1	66.3
75°	273.5	207.2	163.0	116.0	93.9	69.1	63.5	58.0	60.8	60.8	60.8
77.5°	229.3	171.3	132.6	91.2	74.6	55.3	52.5	49.7	52.5	55.3	52.5
80°	179.6	129.9	99.5	66.3	55.3	41.4	44.2	44.2	47.0	47.0	47.0
82.5°	105.0	77.4	63.5	47.0	38.7	30.4	33.2	35.9	38.7	38.7	38.7
85°	63.5	49.7	41.4	33.2	27.6	19.3	24.9	27.6	27.6	27.6	24.9
87.5°	11.1	11.1	11.1	11.1	8.3	5.5	11.1	13.8	13.8	13.8	11.1
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: P559917

CATALOG NUMBER: SDL-PA1-100-827-U-SL3

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2152.2	2152.2	2152.2	2152.2
2.5°	1798.6	1798.6	1795.8	1795.8
5°	1652.2	1646.6	1641.1	1646.6
7.5°	1315.1	1276.4	1237.7	1248.8
10°	1317.9	1315.1	1312.3	1309.6
12.5°	953.2	922.8	892.4	873.0
15°	809.5	801.2	790.2	790.2
17.5°	547.0	522.2	497.3	480.7
20°	466.9	480.7	491.8	497.3
22.5°	348.1	359.2	370.2	375.7
25°	367.5	395.1	419.9	422.7
27.5°	254.2	268.0	279.0	273.5
30°	248.7	256.9	265.2	265.2
32.5°	212.7	234.8	256.9	259.7
35°	212.7	223.8	234.8	237.6
37.5°	190.6	198.9	204.4	207.2
40°	171.3	176.8	179.6	179.6
42.5°	152.0	165.8	176.8	176.8
45°	135.4	171.3	207.2	218.3
47.5°	132.6	185.1	237.6	248.7
50°	143.7	193.4	240.4	245.9
52.5°	146.4	174.1	198.9	198.9
55°	116.0	129.9	140.9	138.1
57.5°	99.5	110.5	118.8	118.8
60°	93.9	107.7	118.8	121.6
62.5°	91.2	96.7	102.2	107.7
65°	82.9	82.9	82.9	82.9
67.5°	77.4	77.4	74.6	74.6
70°	69.1	69.1	69.1	69.1
72.5°	63.5	63.5	63.5	60.8
75°	58.0	58.0	55.3	55.3
77.5°	49.7	49.7	49.7	49.7
80°	44.2	44.2	41.4	41.4
82.5°	35.9	35.9	33.2	30.4
85°	22.1	22.1	19.3	16.6
87.5°	8.3	8.3	5.5	2.8
90°	0.0	0.0	0.0	0.0



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