

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: P560658

Luminaire Tested: **SDL-PA1-50-830-U-T4W-HSS**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P560658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-10)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-50-830-U-T4W-HSS
Description: Springdale
(1) 80 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3703.2 lumens
Efficiency: N/A
Efficacy: 70.7 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: B0 - 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

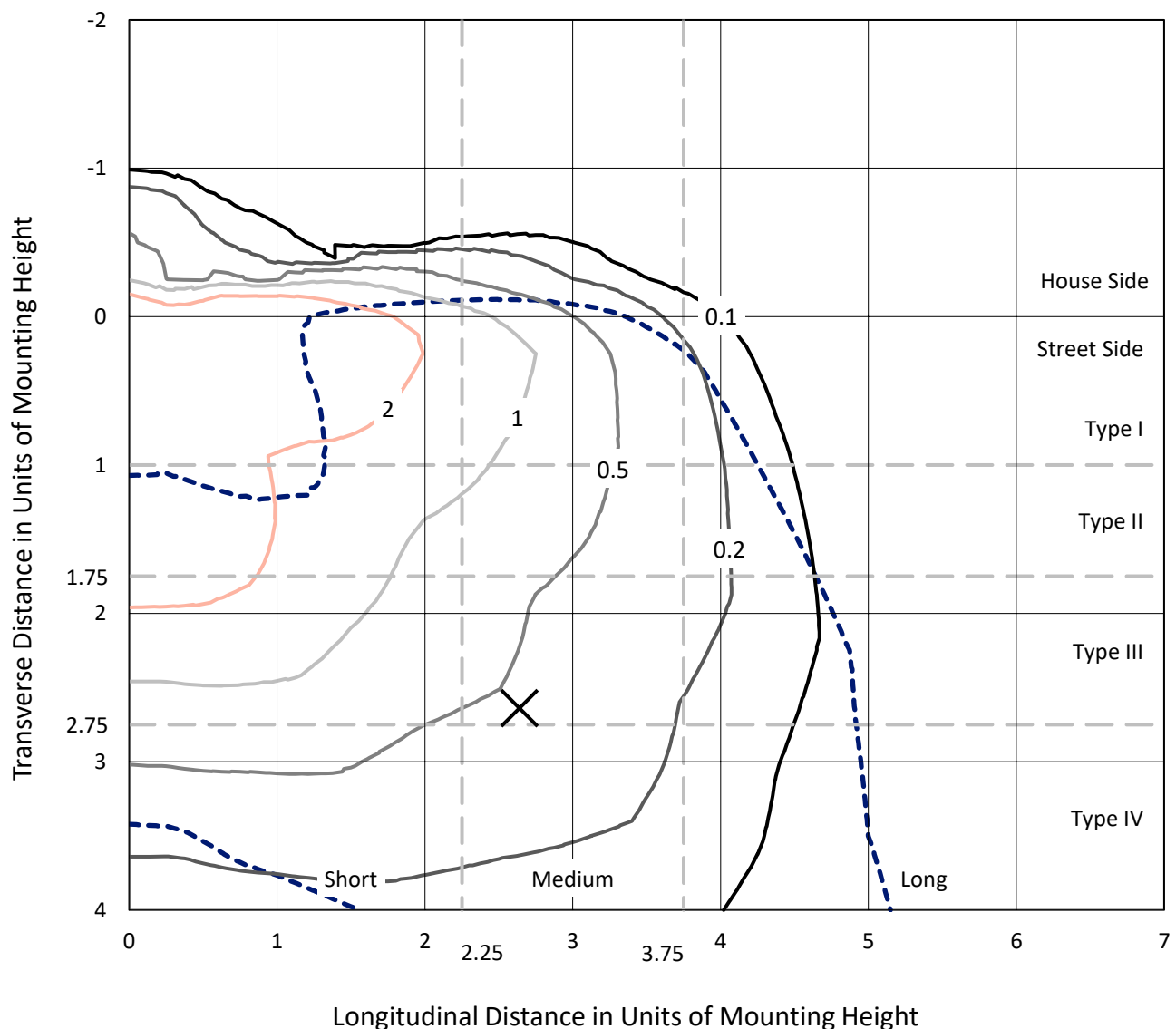


REPORT NUMBER: P560658

CATALOG NUMBER: SDL-PA1-50-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

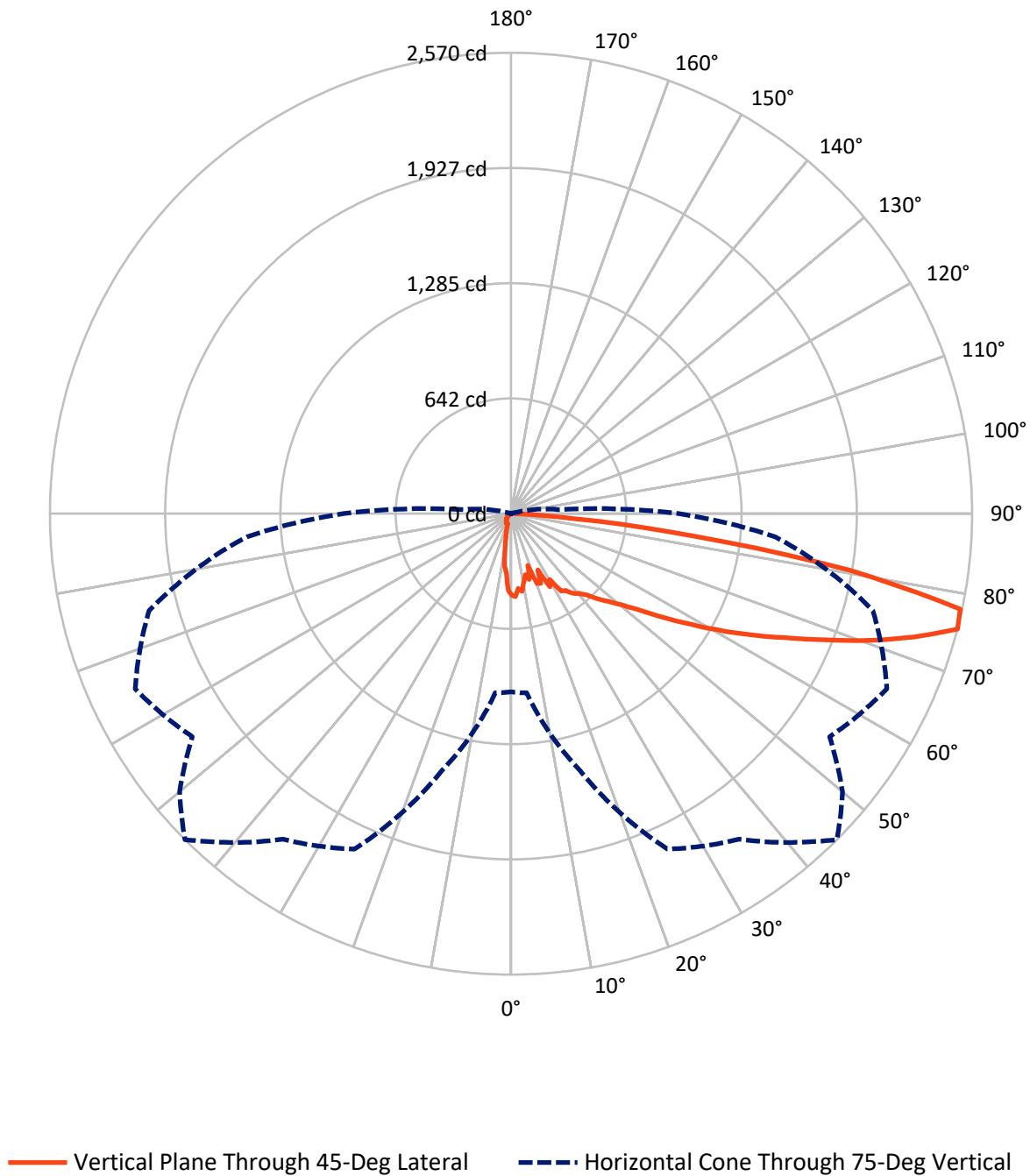


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Medium - N/A

REPORT NUMBER: P560658

CATALOG NUMBER: SDL-PA1-50-830-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P560658

CATALOG NUMBER: SDL-PA1-50-830-U-T4W-HSS

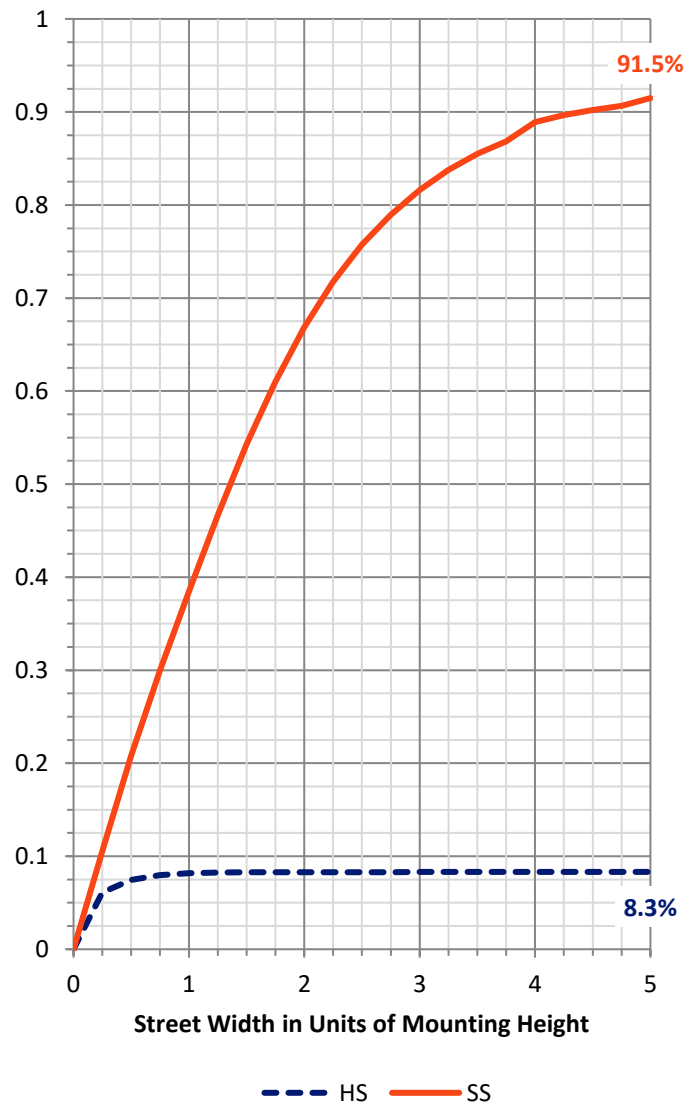
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	310.9	0.0	310.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3392.3	0.0	3392.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	3703.2	0.0	3703.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	1.0
10°-20°	77.5	2.1
20°-30°	131.1	3.5
30°-40°	241.4	6.5
40°-50°	396.1	10.7
50°-60°	705.0	19.0
60°-70°	1054.9	28.5
70°-80°	939.2	25.4
80°-90°	122.7	3.3
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°	3703.2	100.0
0°-180°	3703.2	100.0

Coefficient of Utilization



REPORT NUMBER: P560658

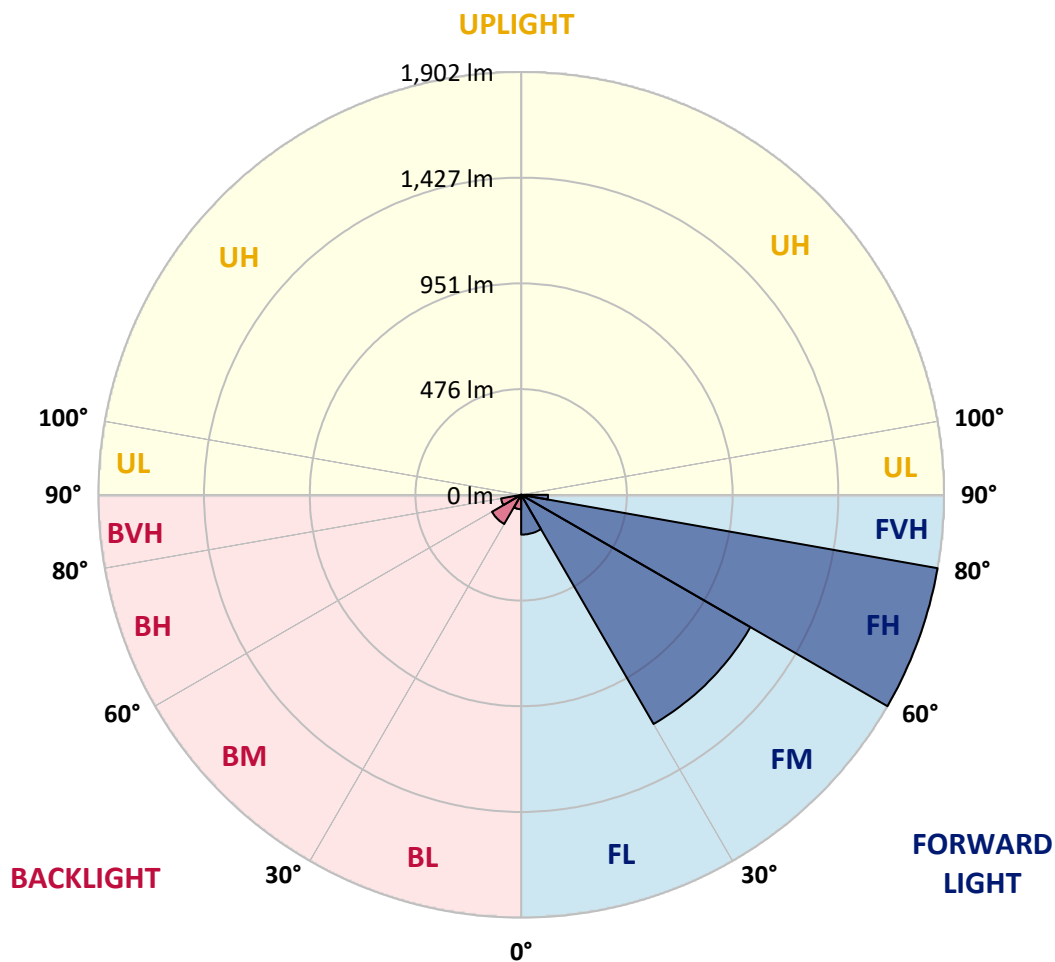
CATALOG NUMBER: SDL-PA1-50-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	179.0	4.8			
FM	(30°-60°)	1190.4	32.1			
FH	(60°-80°)	1902.0	51.4			G2/5000
FVH	(80°-90°)	120.8	3.3			G2/225
BL	(0°-30°)	64.9	1.8	B0/110		
BM	(30°-60°)	152.1	4.1	B0/220		
BH	(60°-80°)	92.1	2.5	B0/110		G0/110
BVH	(80°-90°)	1.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Medium



REPORT NUMBER: P560658

CATALOG NUMBER: SDL-PA1-50-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1
2.5°	422.4	454.1	457.8	459.6	463.4	465.2	465.2	465.2	465.2	463.4	463.4
5°	446.6	444.8	442.9	441.0	439.2	435.4	431.7	426.1	422.4	418.7	415.0
7.5°	437.3	439.2	444.8	448.5	446.6	444.8	448.5	450.3	444.8	437.3	429.9
10°	509.9	506.2	502.4	498.7	493.1	487.6	442.9	398.2	394.5	388.9	385.2
12.5°	446.6	502.4	502.4	502.4	502.4	502.4	472.7	442.9	396.4	349.8	295.9
15°	558.3	556.4	549.0	541.5	491.3	439.2	411.3	383.3	383.3	381.5	359.2
17.5°	463.4	463.4	500.6	535.9	515.5	495.0	455.9	416.8	361.0	303.3	325.7
20°	586.2	586.2	578.7	571.3	485.7	400.1	403.8	407.5	411.3	415.0	344.3
22.5°	482.0	478.2	474.5	470.8	480.1	489.4	413.1	335.0	379.6	422.4	329.4
25°	588.0	593.6	589.9	584.3	508.0	431.7	448.5	463.4	405.7	348.0	403.8
27.5°	504.3	498.7	491.3	482.0	487.6	493.1	457.8	420.6	441.0	461.5	370.3
30°	617.8	619.7	616.0	612.2	539.7	467.1	465.2	461.5	444.8	426.1	416.8
32.5°	764.8	749.9	697.8	645.7	601.1	556.4	521.0	485.7	500.6	513.6	463.4
35°	835.5	807.6	785.3	761.1	686.7	610.4	567.6	522.9	524.8	526.6	506.2
37.5°	904.4	863.5	835.5	807.6	718.3	629.0	582.5	535.9	550.8	563.8	541.5
40°	928.6	906.3	889.5	872.8	777.9	681.1	627.1	571.3	578.7	584.3	576.9
42.5°	990.0	986.3	977.0	965.8	852.3	736.9	671.8	606.6	614.1	619.7	616.0
45°	1137.0	1131.4	1131.4	1129.6	982.5	833.7	748.1	662.5	669.9	677.4	673.6
47.5°	1326.8	1317.5	1306.3	1293.3	1137.0	978.8	856.0	731.3	731.3	731.3	736.9
50°	1525.9	1512.9	1488.7	1462.7	1304.5	1146.3	990.0	833.7	816.9	798.3	818.8
52.5°	1732.5	1710.2	1669.2	1626.4	1486.8	1347.3	1170.5	991.9	941.6	889.5	915.6
55°	1844.1	1819.9	1792.0	1762.3	1648.7	1533.4	1352.9	1172.4	1094.2	1014.2	1042.1
57.5°	1935.3	1929.7	1916.7	1903.7	1816.2	1728.8	1548.3	1365.9	1259.8	1153.7	1177.9
60°	2060.0	2052.6	2058.1	2063.7	1996.7	1929.7	1758.5	1585.5	1449.6	1311.9	1304.5
62.5°	2153.0	2151.2	2179.1	2207.0	2171.7	2134.4	1942.8	1749.2	1617.1	1483.1	1445.9
65°	2067.4	2091.6	2195.8	2300.1	2294.5	2287.0	2108.4	1927.9	1797.6	1665.5	1617.1
67.5°	1886.9	1898.1	2052.6	2205.1	2272.1	2337.3	2210.7	2082.3	1980.0	1875.8	1786.5
70°	1717.6	1741.8	1877.6	2013.5	2186.5	2359.6	2259.1	2158.6	2138.2	2115.8	2000.5
72.5°	1553.8	1596.6	1723.2	1849.7	2080.5	2309.4	2249.8	2190.3	2270.3	2350.3	2212.6
75°	993.7	1003.0	1243.1	1481.3	1773.4	2063.7	2140.0	2216.3	2393.1	2569.9	2411.7
77.5°	290.3	321.9	502.4	682.9	1017.9	1351.0	1611.5	1872.1	2216.3	2560.6	2367.0
80°	98.6	106.1	132.1	156.3	335.0	513.6	815.1	1114.7	1514.8	1914.9	1779.0
82.5°	48.4	50.2	63.3	74.4	113.5	152.6	307.0	459.6	742.5	1023.5	1047.7
85°	14.9	14.9	22.3	29.8	48.4	67.0	115.4	161.9	256.8	349.8	295.9
87.5°	3.7	3.7	5.6	7.4	11.2	14.9	14.9	14.9	11.2	7.4	9.3
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: P560658

CATALOG NUMBER: SDL-PA1-50-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1
2.5°	465.2	465.2	465.2	463.4	459.6	457.8	454.1	450.3	446.6	444.8	441.0
5°	409.4	433.6	455.9	457.8	457.8	452.2	446.6	441.0	435.4	429.9	424.3
7.5°	420.6	407.5	394.5	396.4	398.2	396.4	392.6	383.3	375.9	361.0	344.3
10°	336.8	327.5	316.4	320.1	323.8	333.1	342.4	335.0	323.8	295.9	266.1
12.5°	331.2	329.4	325.7	297.7	268.0	282.9	295.9	288.4	277.3	249.4	219.6
15°	282.9	284.7	284.7	312.6	340.5	351.7	361.0	351.7	338.7	301.5	262.4
17.5°	364.7	346.1	327.5	316.4	303.3	307.0	310.8	269.8	282.9	258.7	232.6
20°	377.8	316.4	254.9	305.2	355.4	372.2	388.9	379.6	362.9	303.3	241.9
22.5°	344.3	366.6	388.9	357.3	325.7	305.2	282.9	273.6	262.4	236.3	210.3
25°	426.1	364.7	301.5	361.0	418.7	422.4	426.1	409.4	390.8	316.4	241.9
27.5°	381.5	402.0	420.6	433.6	446.6	463.4	480.1	461.5	416.8	329.4	240.1
30°	454.1	482.0	509.9	552.7	595.5	608.5	619.7	599.2	563.8	416.8	268.0
32.5°	474.5	530.4	586.2	602.9	617.8	634.6	651.3	634.6	591.8	413.1	232.6
35°	530.4	569.4	606.6	632.7	658.8	673.6	688.5	677.4	619.7	407.5	195.4
37.5°	547.1	599.2	649.4	679.2	707.1	720.2	731.3	731.3	649.4	403.8	156.3
40°	573.2	638.3	703.4	731.3	757.4	777.9	796.5	803.9	682.9	402.0	119.1
42.5°	625.3	682.9	740.6	785.3	828.1	857.9	887.6	893.2	722.0	407.5	91.2
45°	681.1	742.5	803.9	863.5	923.0	965.8	1006.7	1003.0	768.5	422.4	74.4
47.5°	761.1	818.8	876.5	977.0	1075.6	1116.5	1155.6	1129.6	816.9	441.0	65.1
50°	843.0	913.7	984.4	1112.8	1239.3	1276.6	1311.9	1258.0	863.5	463.4	61.4
52.5°	949.1	1032.8	1116.5	1263.5	1410.6	1444.0	1477.5	1367.8	898.8	478.2	57.7
55°	1073.7	1181.7	1289.6	1429.2	1566.9	1605.9	1645.0	1475.7	915.6	485.7	55.8
57.5°	1224.5	1349.1	1472.0	1600.4	1726.9	1780.9	1833.0	1581.8	923.0	487.6	52.1
60°	1371.5	1509.2	1646.9	1756.7	1866.5	1950.2	2032.1	1686.0	919.3	483.8	46.5
62.5°	1507.3	1659.9	1810.6	1913.0	2015.3	2115.8	2216.3	1769.7	895.1	467.1	37.2
65°	1648.7	1810.6	1970.7	2060.0	2149.3	2279.6	2408.0	1842.3	861.6	444.8	26.1
67.5°	1777.1	1931.6	2086.1	2186.5	2287.0	2415.4	2542.0	1860.9	813.2	416.8	18.6
70°	1885.1	2052.6	2218.2	2320.5	2422.9	2488.0	2551.3	1779.0	716.4	364.7	13.0
72.5°	2033.9	2184.7	2333.6	2385.7	2435.9	2322.4	2207.0	1483.1	537.8	275.4	11.2
75°	2167.9	2240.5	2311.2	2199.6	2087.9	1782.7	1477.5	934.2	262.4	137.7	11.2
77.5°	2032.1	1993.0	1953.9	1611.5	1267.3	941.6	614.1	366.6	81.9	44.7	7.4
80°	1472.0	1293.3	1112.8	770.4	426.1	284.7	141.4	81.9	20.5	13.0	5.6
82.5°	792.7	612.2	429.9	277.3	124.7	83.7	40.9	27.9	9.3	7.4	3.7
85°	286.6	227.0	165.6	128.4	91.2	54.0	14.9	9.3	5.6	5.6	3.7
87.5°	26.1	29.8	33.5	26.1	16.7	11.2	3.7	3.7	3.7	3.7	1.9
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: P560658

CATALOG NUMBER: SDL-PA1-50-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1
2.5°	439.2	437.3	435.4	431.7	429.9	428.0	415.0	402.0	387.1	372.2	372.2
5°	400.1	375.9	362.9	349.8	340.5	331.2	329.4	325.7	321.9	318.2	316.4
7.5°	335.0	325.7	318.2	310.8	301.5	292.2	282.9	273.6	266.1	258.7	241.9
10°	251.2	236.3	225.2	214.0	208.4	201.0	189.8	176.8	176.8	176.8	174.9
12.5°	217.7	215.9	187.9	158.2	148.9	139.6	137.7	135.8	132.1	126.5	119.1
15°	215.9	167.5	143.3	117.2	111.7	104.2	93.0	80.0	78.2	74.4	83.7
17.5°	195.4	158.2	130.3	102.3	81.9	61.4	65.1	67.0	76.3	83.7	89.3
20°	176.8	111.7	93.0	72.6	67.0	59.5	63.3	67.0	65.1	61.4	70.7
22.5°	165.6	119.1	87.5	55.8	59.5	63.3	59.5	54.0	63.3	72.6	78.2
25°	160.0	76.3	68.9	59.5	55.8	52.1	59.5	65.1	61.4	57.7	68.9
27.5°	158.2	76.3	65.1	52.1	55.8	59.5	57.7	54.0	61.4	67.0	65.1
30°	169.3	68.9	61.4	54.0	52.1	50.2	54.0	57.7	57.7	55.8	65.1
32.5°	150.7	68.9	61.4	52.1	52.1	50.2	50.2	50.2	55.8	61.4	65.1
35°	130.3	63.3	57.7	50.2	48.4	46.5	48.4	48.4	54.0	57.7	65.1
37.5°	107.9	59.5	54.0	46.5	44.7	42.8	42.8	40.9	46.5	52.1	57.7
40°	87.5	55.8	50.2	42.8	40.9	39.1	39.1	39.1	42.8	44.7	48.4
42.5°	72.6	52.1	46.5	39.1	37.2	35.4	35.4	33.5	35.4	37.2	39.1
45°	63.3	50.2	44.7	37.2	35.4	31.6	29.8	27.9	27.9	27.9	27.9
47.5°	55.8	46.5	42.8	37.2	33.5	27.9	26.1	22.3	20.5	18.6	16.7
50°	52.1	42.8	39.1	33.5	29.8	24.2	20.5	16.7	14.9	11.2	11.2
52.5°	48.4	39.1	35.4	29.8	24.2	18.6	14.9	9.3	9.3	7.4	7.4
55°	46.5	37.2	31.6	26.1	20.5	13.0	9.3	5.6	5.6	3.7	3.7
57.5°	44.7	35.4	29.8	22.3	14.9	7.4	5.6	3.7	3.7	3.7	3.7
60°	39.1	31.6	24.2	14.9	9.3	3.7	3.7	1.9	3.7	3.7	3.7
62.5°	31.6	24.2	16.7	9.3	5.6	1.9	1.9	1.9	3.7	3.7	3.7
65°	22.3	16.7	11.2	5.6	3.7	1.9	1.9	1.9	1.9	1.9	1.9
67.5°	16.7	13.0	9.3	3.7	3.7	1.9	1.9	1.9	1.9	1.9	1.9
70°	11.2	9.3	7.4	3.7	3.7	1.9	1.9	1.9	1.9	1.9	1.9
72.5°	9.3	7.4	5.6	1.9	1.9	0.0	1.9	1.9	1.9	1.9	1.9
75°	9.3	7.4	5.6	1.9	1.9	0.0	1.9	1.9	1.9	1.9	1.9
77.5°	7.4	5.6	3.7	1.9	1.9	0.0	1.9	3.7	3.7	3.7	3.7
80°	5.6	3.7	3.7	1.9	1.9	0.0	1.9	3.7	3.7	3.7	3.7
82.5°	3.7	3.7	3.7	1.9	1.9	0.0	3.7	5.6	5.6	3.7	3.7
85°	3.7	1.9	1.9	1.9	1.9	1.9	3.7	5.6	5.6	5.6	3.7
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	3.7	5.6	5.6	5.6	3.7
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: P560658

CATALOG NUMBER: SDL-PA1-50-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	454.1	454.1	454.1	454.1
2.5°	370.3	370.3	368.5	368.5
5°	312.6	312.6	310.8	310.8
7.5°	225.2	221.4	215.9	217.7
10°	173.1	169.3	165.6	169.3
12.5°	111.7	113.5	113.5	107.9
15°	91.2	98.6	104.2	104.2
17.5°	94.9	94.9	93.0	93.0
20°	80.0	87.5	94.9	94.9
22.5°	81.9	78.2	74.4	74.4
25°	78.2	83.7	87.5	87.5
27.5°	63.3	65.1	67.0	67.0
30°	72.6	76.3	78.2	78.2
32.5°	68.9	72.6	74.4	76.3
35°	70.7	74.4	76.3	76.3
37.5°	63.3	65.1	67.0	67.0
40°	50.2	52.1	54.0	54.0
42.5°	39.1	39.1	37.2	39.1
45°	26.1	26.1	24.2	26.1
47.5°	14.9	14.9	14.9	14.9
50°	9.3	9.3	9.3	9.3
52.5°	5.6	5.6	5.6	5.6
55°	3.7	3.7	3.7	3.7
57.5°	3.7	3.7	1.9	1.9
60°	1.9	1.9	1.9	1.9
62.5°	1.9	1.9	0.0	0.0
65°	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0
75°	1.9	1.9	0.0	0.0
77.5°	1.9	1.9	0.0	0.0
80°	1.9	1.9	0.0	0.0
82.5°	1.9	1.9	0.0	0.0
85°	1.9	1.9	1.9	0.0
87.5°	1.9	1.9	1.9	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)