

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: P559947

Luminaire Tested: **SDL-PA1-100-830-U-T2U**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P559947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-8)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-100-830-U-T2U
Description: Springdale
(1) 80 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8296.1 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

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

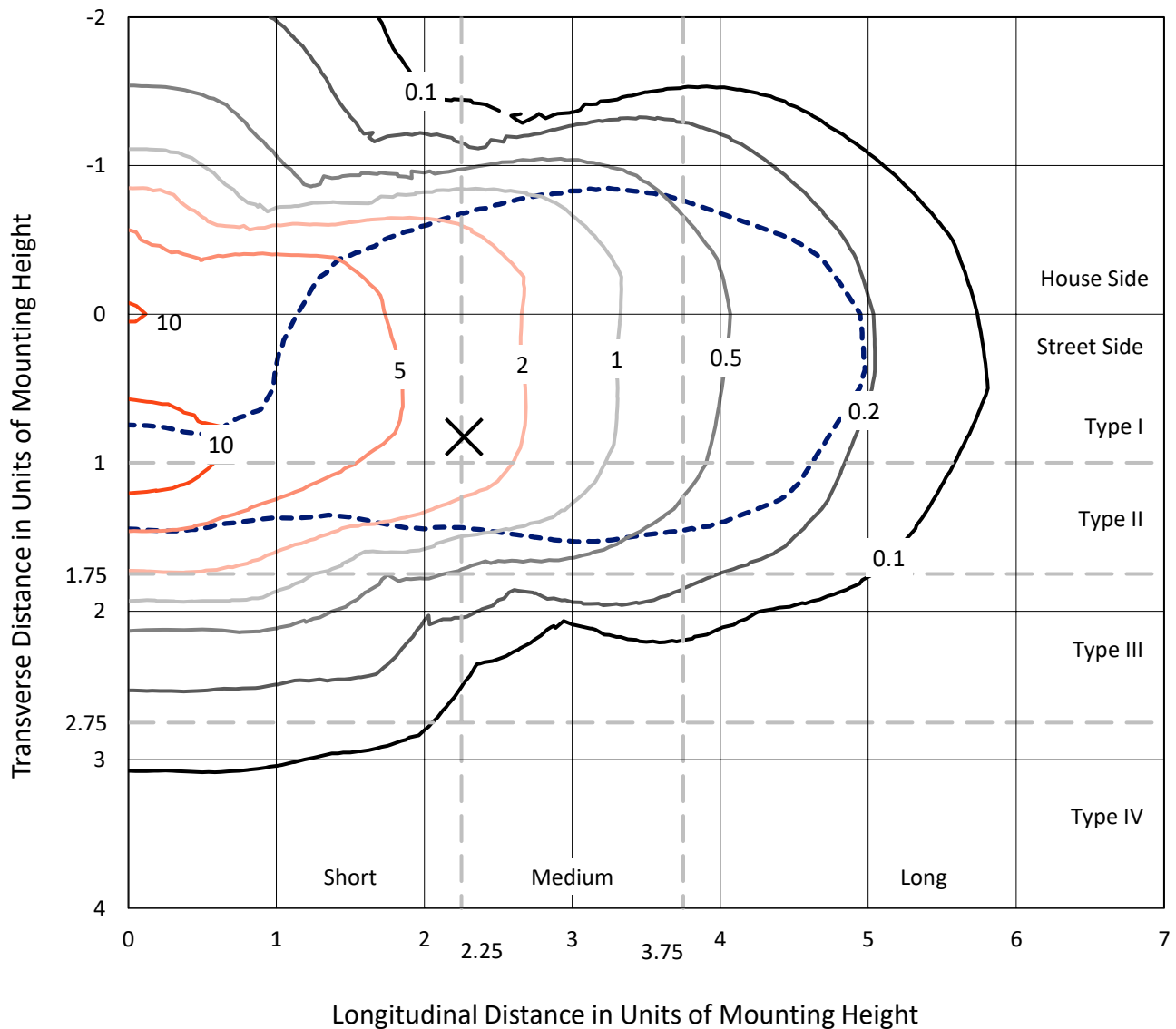


REPORT NUMBER: P559947

CATALOG NUMBER: SDL-PA1-100-830-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

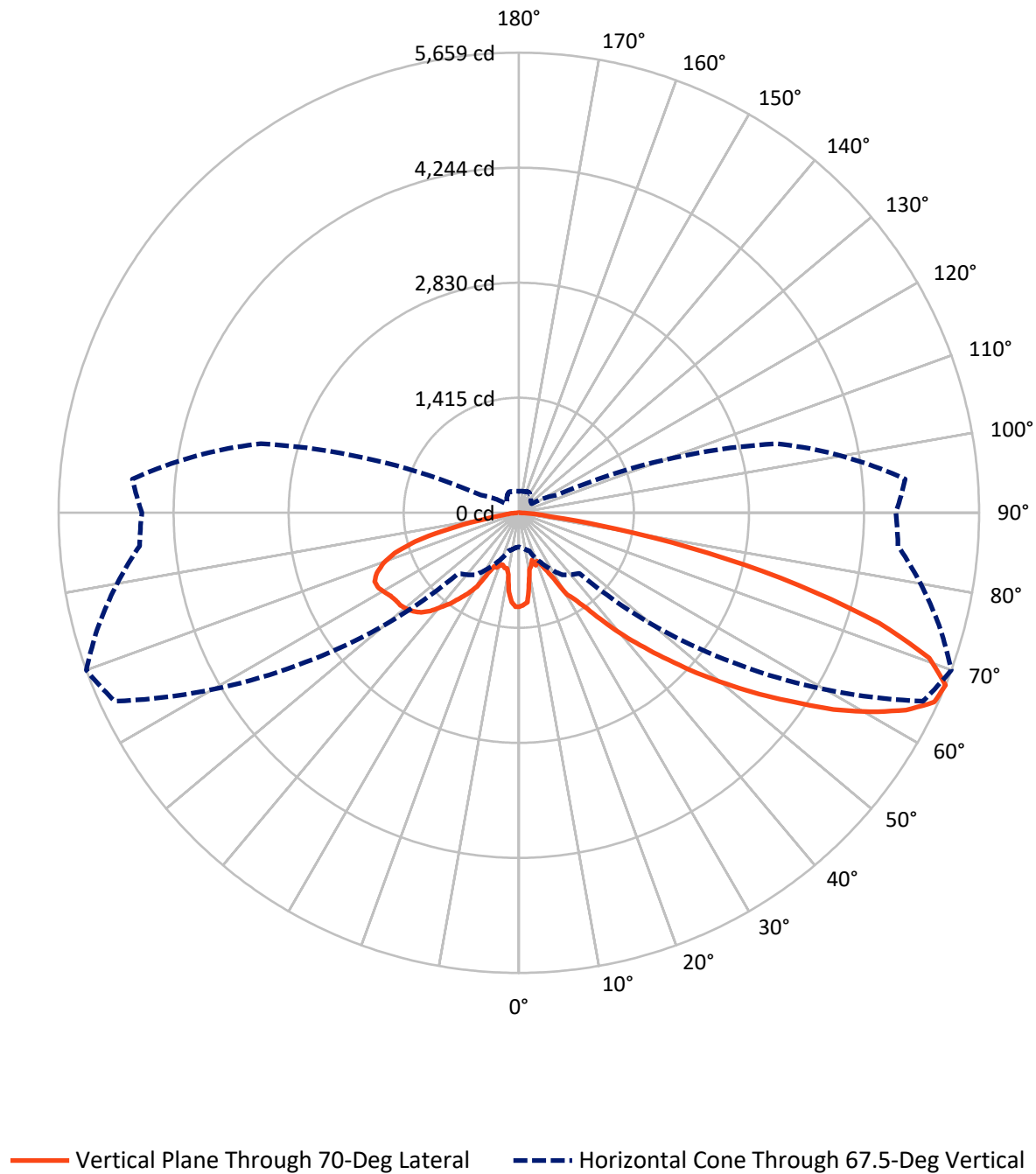


Based on 10 foot mounting height. Maximum calculated value = 15 fc
 Type II - Medium - N/A

REPORT NUMBER: P559947

CATALOG NUMBER: SDL-PA1-100-830-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P559947

CATALOG NUMBER: SDL-PA1-100-830-U-T2U

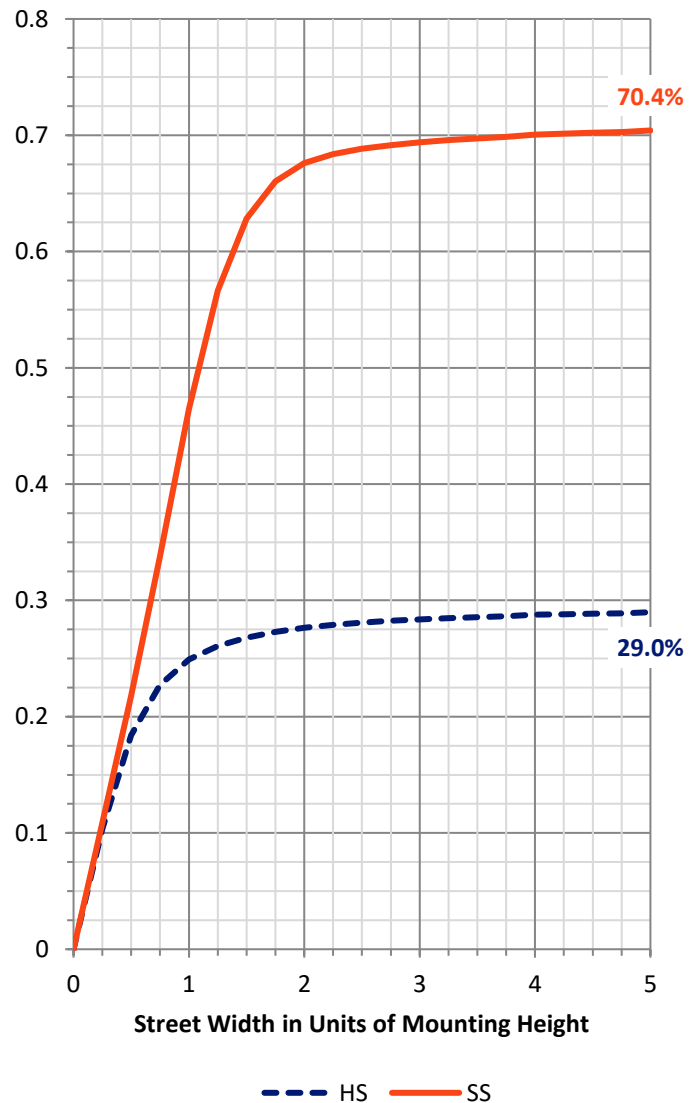
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2432.9	0.0	2432.9
	% Fixture	29.3	0.0	29.3
Street Side	Lumens	5863.2	0.0	5863.2
	% Fixture	70.7	0.0	70.7
Total	Lumens	8296.1	0.0	8296.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	1.1
10°-20°	217.2	2.6
20°-30°	385.9	4.7
30°-40°	815.8	9.8
40°-50°	1493.4	18.0
50°-60°	2037.3	24.6
60°-70°	1920.7	23.2
70°-80°	1162.4	14.0
80°-90°	170.8	2.1
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°	8296.1	100.0
0°-180°	8296.1	100.0

Coefficient of Utilization



REPORT NUMBER: P559947

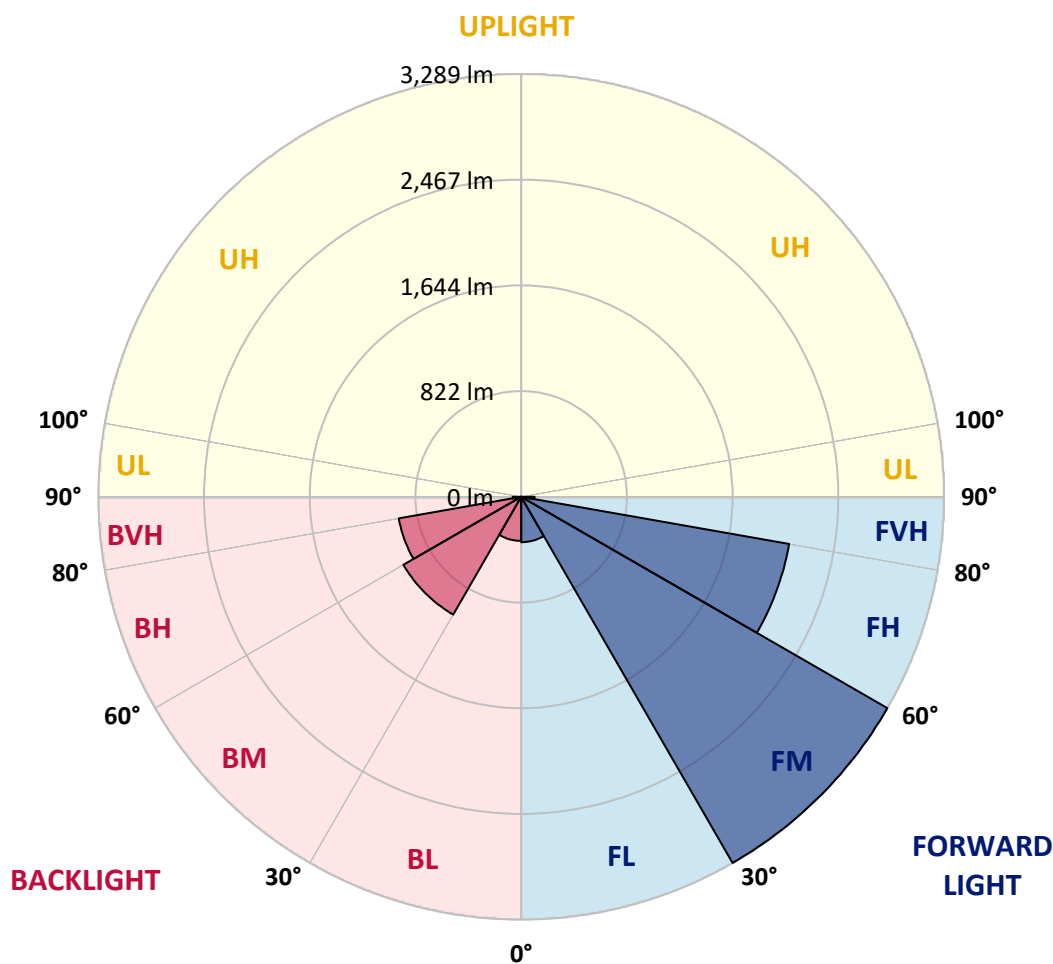
CATALOG NUMBER: SDL-PA1-100-830-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	353.0	4.3			
FM	(30°-60°)	3288.9	39.6			
FH	(60°-80°)	2116.6	25.5			G2/5000
FVH	(80°-90°)	104.7	1.3			G2/225
BL	(0°-30°)	342.7	4.1	B1/500		
BM	(30°-60°)	1057.6	12.7	B2/2500		
BH	(60°-80°)	966.6	11.7	B2/1000		G2/1000
BVH	(80°-90°)	66.1	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



REPORT NUMBER: P559947

CATALOG NUMBER: SDL-PA1-100-830-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1
2.5°	970.1	979.0	1038.7	1098.4	1101.4	1101.4	1104.4	1107.4	1116.3	1122.3	1128.3
5°	904.4	910.4	910.4	910.4	913.4	916.3	919.3	919.3	925.3	928.3	934.3
7.5°	758.1	817.8	838.7	856.6	868.6	877.5	883.5	889.5	895.5	901.4	907.4
10°	862.6	862.6	865.6	865.6	865.6	862.6	802.9	740.2	770.1	799.9	755.2
12.5°	710.4	722.3	776.1	826.8	841.7	853.7	823.8	791.0	737.3	683.5	677.6
15°	844.7	844.7	844.7	841.7	788.0	731.3	674.6	614.9	650.7	686.5	632.8
17.5°	731.3	731.3	776.1	817.8	814.9	808.9	758.1	704.4	620.8	534.3	602.9
20°	922.3	919.3	904.4	886.5	776.1	665.6	689.5	713.4	719.3	722.3	701.4
22.5°	823.8	826.8	844.7	862.6	865.6	868.6	740.2	608.9	683.5	758.1	686.5
25°	1146.2	1140.2	1113.3	1083.5	961.1	835.8	859.6	883.5	761.1	635.8	713.4
27.5°	1089.5	1071.6	1059.6	1047.7	1068.6	1089.5	976.0	859.6	886.5	913.4	814.9
30°	1558.1	1558.1	1528.2	1495.4	1310.3	1122.3	1092.4	1062.6	991.0	916.3	934.3
32.5°	1973.0	1973.0	1862.5	1749.1	1638.7	1528.2	1382.0	1235.7	1205.9	1173.0	1143.2
35°	2483.4	2468.5	2405.8	2340.1	2101.3	1862.5	1674.5	1486.4	1426.8	1367.1	1337.2
37.5°	2961.0	2928.1	2841.6	2752.0	2501.3	2247.6	1999.8	1752.1	1686.4	1620.8	1555.1
40°	3355.0	3337.0	3277.3	3214.7	2931.1	2647.5	2367.0	2083.4	1996.9	1910.3	1814.8
42.5°	3716.1	3701.2	3647.5	3590.8	3310.2	3026.6	2761.0	2492.3	2364.0	2235.6	2122.2
45°	3981.8	3957.9	3922.1	3883.3	3659.4	3432.6	3163.9	2892.3	2841.6	2790.8	2569.9
47.5°	4065.3	4023.6	4017.6	4011.6	3832.5	3653.4	3438.5	3223.6	3232.6	3241.5	2984.8
50°	3943.0	3880.3	3907.1	3934.0	3862.4	3787.8	3620.6	3453.5	3528.1	3599.7	3396.7
52.5°	3498.2	3483.3	3552.0	3617.6	3635.5	3653.4	3617.6	3578.8	3716.1	3853.4	3778.8
55°	2886.3	2952.0	3047.5	3143.0	3217.7	3289.3	3393.8	3498.2	3734.0	3969.8	4023.6
57.5°	2274.4	2343.1	2453.5	2564.0	2650.5	2737.1	2952.0	3166.9	3522.1	3877.3	4119.1
60°	1531.2	1602.9	1784.9	1964.0	2086.4	2208.8	2402.8	2596.8	3044.5	3492.3	3981.8
62.5°	1020.8	996.9	1149.2	1298.4	1495.4	1692.4	1779.0	1862.5	2331.2	2796.8	3587.8
65°	626.8	629.8	689.5	746.2	964.1	1179.0	1247.7	1313.3	1579.0	1844.6	2922.2
67.5°	420.9	429.8	456.7	483.5	588.0	692.5	811.9	931.3	993.9	1053.6	2131.2
70°	373.1	376.1	388.0	400.0	429.8	459.7	570.1	680.5	644.7	605.9	1208.9
72.5°	328.3	331.3	352.2	370.1	385.0	400.0	465.6	531.3	489.5	447.7	602.9
75°	268.6	277.6	298.5	316.4	346.2	373.1	388.0	403.0	382.1	358.2	388.0
77.5°	220.9	226.8	241.8	256.7	286.5	313.4	328.3	343.3	310.4	277.6	295.5
80°	173.1	176.1	188.0	200.0	223.9	244.8	262.7	277.6	247.7	214.9	223.9
82.5°	104.5	107.5	125.4	140.3	161.2	179.1	191.0	200.0	208.9	214.9	188.0
85°	56.7	56.7	68.7	80.6	83.6	86.6	98.5	107.5	134.3	158.2	137.3
87.5°	9.0	9.0	11.9	11.9	17.9	20.9	23.9	23.9	26.9	26.9	29.8
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: P559947

CATALOG NUMBER: SDL-PA1-100-830-U-T2U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1
2.5°	1131.3	1134.2	1134.2	1134.2	1137.2	1140.2	1143.2	1143.2	1146.2	1149.2	1152.1
5°	940.2	1017.8	1092.4	1104.4	1113.3	1119.3	1125.3	1128.3	1134.2	1140.2	1143.2
7.5°	913.4	913.4	913.4	892.5	970.1	979.0	988.0	993.9	999.9	993.9	985.0
10°	707.4	707.4	704.4	710.4	743.2	799.9	853.7	859.6	865.6	817.8	767.1
12.5°	668.6	677.6	686.5	671.6	611.9	662.6	713.4	722.3	725.3	683.5	638.8
15°	576.1	579.1	582.0	602.9	725.3	776.1	826.8	835.8	844.7	799.9	752.2
17.5°	668.6	647.7	623.8	680.5	632.8	665.6	695.5	623.8	689.5	677.6	665.6
20°	680.5	608.9	534.3	635.8	743.2	794.0	841.7	847.7	850.7	814.9	776.1
22.5°	614.9	683.5	752.2	683.5	641.7	635.8	629.8	626.8	629.8	650.7	668.6
25°	791.0	704.4	617.9	776.1	874.6	898.4	922.3	910.4	904.4	859.6	814.9
27.5°	716.4	785.0	850.7	916.3	946.2	979.0	1008.9	1017.8	970.1	922.3	874.6
30°	949.2	991.0	1029.8	1164.1	1262.6	1292.4	1322.3	1292.4	1274.5	1214.8	1152.1
32.5°	1110.4	1193.9	1277.5	1274.5	1367.1	1390.9	1411.8	1373.0	1340.2	1274.5	1205.9
35°	1307.4	1361.1	1414.8	1444.7	1537.2	1546.1	1555.1	1504.4	1456.6	1379.0	1301.4
37.5°	1489.4	1558.1	1623.7	1698.4	1779.0	1761.1	1740.2	1677.5	1599.9	1540.2	1480.5
40°	1716.3	1799.9	1883.4	1978.9	2026.7	1999.8	1970.0	1874.5	1799.9	1737.2	1674.5
42.5°	2005.8	2095.4	2181.9	2265.5	2283.4	2253.5	2220.7	2116.2	2002.8	1940.1	1874.5
45°	2346.1	2417.7	2489.4	2575.9	2611.7	2558.0	2501.3	2370.0	2235.6	2146.1	2056.6
47.5°	2725.2	2758.0	2790.8	2940.1	2987.8	2898.3	2805.7	2662.5	2474.4	2358.0	2238.6
50°	3193.8	3184.8	3172.9	3304.2	3414.6	3265.4	3113.2	2946.0	2761.0	2596.8	2429.7
52.5°	3704.2	3617.6	3528.1	3704.2	3757.9	3578.8	3399.7	3220.6	3035.6	2823.7	2608.7
55°	4077.3	4029.5	3981.8	4107.1	4101.2	3892.2	3680.3	3468.4	3316.1	3032.6	2749.0
57.5°	4357.9	4399.6	4438.4	4563.8	4420.5	4181.8	3943.0	3731.0	3599.7	3244.5	2889.3
60°	4468.3	4683.2	4895.1	4969.7	4751.9	4483.2	4211.6	4002.7	3892.2	3462.4	3032.6
62.5°	4378.8	4853.3	5327.9	5342.9	5056.3	4754.8	4453.4	4283.2	4226.5	3698.2	3166.9
65°	3999.7	4781.7	5560.7	5614.5	5292.1	4975.7	4656.3	4531.0	4566.8	3919.1	3268.4
67.5°	3205.7	4345.9	5483.1	5659.2	5348.8	5014.5	4680.2	4635.4	4769.8	4026.5	3283.3
70°	1811.8	3340.0	4865.3	5354.8	5190.6	4859.3	4525.0	4545.9	4745.9	3966.8	3187.8
72.5°	755.2	2310.3	3865.4	4632.5	4775.7	4495.2	4211.6	4289.2	4426.5	3686.3	2943.0
75°	417.9	1474.5	2531.1	3552.0	3993.7	3919.1	3841.5	3928.0	3862.4	3146.0	2429.7
77.5°	310.4	797.0	1283.5	2378.9	3005.7	3175.9	3343.0	3384.8	3017.7	2298.3	1579.0
80°	232.8	379.1	522.3	1214.8	1611.8	1916.3	2220.7	2032.7	1776.0	1241.7	707.4
82.5°	161.2	217.9	274.6	391.0	626.8	722.3	814.9	776.1	582.0	408.9	232.8
85°	113.4	143.3	173.1	214.9	268.6	214.9	161.2	131.3	152.2	140.3	128.3
87.5°	29.8	29.8	26.9	29.8	20.9	17.9	14.9	11.9	11.9	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: P559947

CATALOG NUMBER: SDL-PA1-100-830-U-T2U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1
2.5°	1155.1	1158.1	1158.1	1158.1	1158.1	1155.1	1140.2	1125.3	1089.5	1053.6	1041.7
5°	1104.4	1065.6	1035.7	1005.9	1005.9	1005.9	1011.9	1017.8	1020.8	1023.8	1026.8
7.5°	985.0	982.0	993.9	1005.9	1014.8	1023.8	1029.8	1035.7	1023.8	1011.9	985.0
10°	770.1	770.1	785.0	797.0	817.8	838.7	898.4	958.1	1008.9	1059.6	1068.6
12.5°	698.5	755.2	722.3	686.5	761.1	835.8	901.4	964.1	1014.8	1062.6	1023.8
15°	701.4	647.7	659.6	671.6	752.2	832.8	773.1	710.4	829.8	946.2	973.1
17.5°	668.6	671.6	725.3	779.0	698.5	614.9	719.3	823.8	868.6	910.4	871.6
20°	686.5	594.0	656.7	719.3	776.1	829.8	776.1	719.3	734.3	749.2	850.7
22.5°	725.3	782.0	728.3	674.6	740.2	802.9	776.1	749.2	797.0	841.7	799.9
25°	722.3	626.8	716.4	805.9	746.2	683.5	716.4	749.2	725.3	698.5	776.1
27.5°	832.8	791.0	767.1	740.2	773.1	805.9	737.3	668.6	668.6	668.6	659.6
30°	1041.7	931.3	883.5	832.8	752.2	671.6	647.7	623.8	626.8	629.8	674.6
32.5°	1164.1	1122.3	979.0	835.8	761.1	686.5	623.8	561.1	567.1	573.1	629.8
35°	1271.5	1238.7	1047.7	853.7	731.3	605.9	552.2	495.5	522.3	546.2	594.0
37.5°	1393.9	1304.4	1044.7	782.0	650.7	519.4	486.5	453.7	471.6	486.5	516.4
40°	1504.4	1331.2	1017.8	701.4	570.1	435.8	420.9	403.0	417.9	432.8	450.7
42.5°	1623.7	1370.0	979.0	585.0	480.6	376.1	370.1	364.1	379.1	394.0	405.9
45°	1716.3	1376.0	928.3	477.6	408.9	340.3	340.3	337.3	352.2	364.1	370.1
47.5°	1776.0	1310.3	847.7	382.1	352.2	322.4	325.3	325.3	337.3	346.2	349.2
50°	1817.8	1202.9	770.1	337.3	322.4	307.4	307.4	307.4	319.4	328.3	334.3
52.5°	1847.6	1083.5	698.5	310.4	304.5	295.5	295.5	292.5	307.4	322.4	325.3
55°	1856.6	961.1	626.8	289.5	283.6	277.6	283.6	286.5	304.5	319.4	322.4
57.5°	1877.5	865.6	567.1	268.6	265.7	262.7	271.6	280.6	298.5	316.4	316.4
60°	1919.2	802.9	525.3	247.7	247.7	247.7	262.7	274.6	292.5	310.4	307.4
62.5°	1958.1	746.2	486.5	226.8	229.8	232.8	250.7	268.6	286.5	304.5	301.5
65°	1964.0	656.7	432.8	208.9	214.9	217.9	238.8	259.7	277.6	295.5	289.5
67.5°	1898.4	513.4	352.2	191.0	200.0	206.0	229.8	250.7	268.6	283.6	277.6
70°	1779.0	367.1	271.6	176.1	185.1	191.0	214.9	235.8	250.7	265.7	259.7
72.5°	1602.9	262.7	211.9	161.2	167.2	173.1	194.0	214.9	232.8	247.7	241.8
75°	1322.3	211.9	179.1	146.3	152.2	155.2	176.1	194.0	211.9	226.8	217.9
77.5°	877.5	173.1	152.2	131.3	134.3	137.3	155.2	170.1	185.1	197.0	191.0
80°	423.8	140.3	128.3	113.4	116.4	116.4	131.3	146.3	158.2	167.2	164.2
82.5°	173.1	110.4	101.5	92.5	92.5	92.5	107.5	119.4	131.3	140.3	134.3
85°	107.5	86.6	80.6	71.6	68.7	65.7	71.6	77.6	83.6	86.6	83.6
87.5°	14.9	14.9	17.9	20.9	17.9	11.9	17.9	23.9	23.9	20.9	17.9
90°	0.0	0.0	9.0	9.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P559947

CATALOG NUMBER: SDL-PA1-100-830-U-T2U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1155.1	1155.1	1155.1	1155.1
2.5°	1029.8	1029.8	1029.8	1035.7
5°	1026.8	1026.8	1026.8	1032.8
7.5°	958.1	928.3	898.4	901.4
10°	1074.5	1077.5	1077.5	1080.5
12.5°	982.0	934.3	886.5	892.5
15°	999.9	999.9	996.9	999.9
17.5°	832.8	817.8	802.9	802.9
20°	952.2	952.2	952.2	952.2
22.5°	758.1	755.2	752.2	755.2
25°	853.7	856.6	856.6	853.7
27.5°	650.7	689.5	725.3	728.3
30°	716.4	716.4	716.4	716.4
32.5°	686.5	716.4	746.2	749.2
35°	638.8	635.8	632.8	641.7
37.5°	543.2	537.3	531.3	531.3
40°	468.6	456.7	444.7	444.7
42.5°	414.9	405.9	394.0	391.0
45°	376.1	367.1	355.2	355.2
47.5°	349.2	343.3	337.3	334.3
50°	337.3	331.3	325.3	325.3
52.5°	328.3	325.3	319.4	319.4
55°	322.4	319.4	313.4	313.4
57.5°	316.4	313.4	307.4	307.4
60°	304.5	301.5	298.5	298.5
62.5°	295.5	292.5	289.5	289.5
65°	283.6	283.6	280.6	277.6
67.5°	268.6	268.6	268.6	262.7
70°	250.7	250.7	250.7	244.8
72.5°	232.8	232.8	229.8	220.9
75°	208.9	206.0	203.0	197.0
77.5°	185.1	179.1	173.1	170.1
80°	158.2	152.2	146.3	140.3
82.5°	125.4	122.4	116.4	101.5
85°	77.6	68.7	56.7	50.7
87.5°	14.9	11.9	9.0	3.0
90°	0.0	0.0	0.0	0.0

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