

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: P561245

Luminaire Tested: **SDL-PA1-90-730-U-T2U**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561245
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-PA1-90-730-U-T2U
Description: Springdale
(1) 70 CRI, 3000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9421.4 lumens
Efficiency: N/A
Efficacy: 102.0 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: B3 - 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



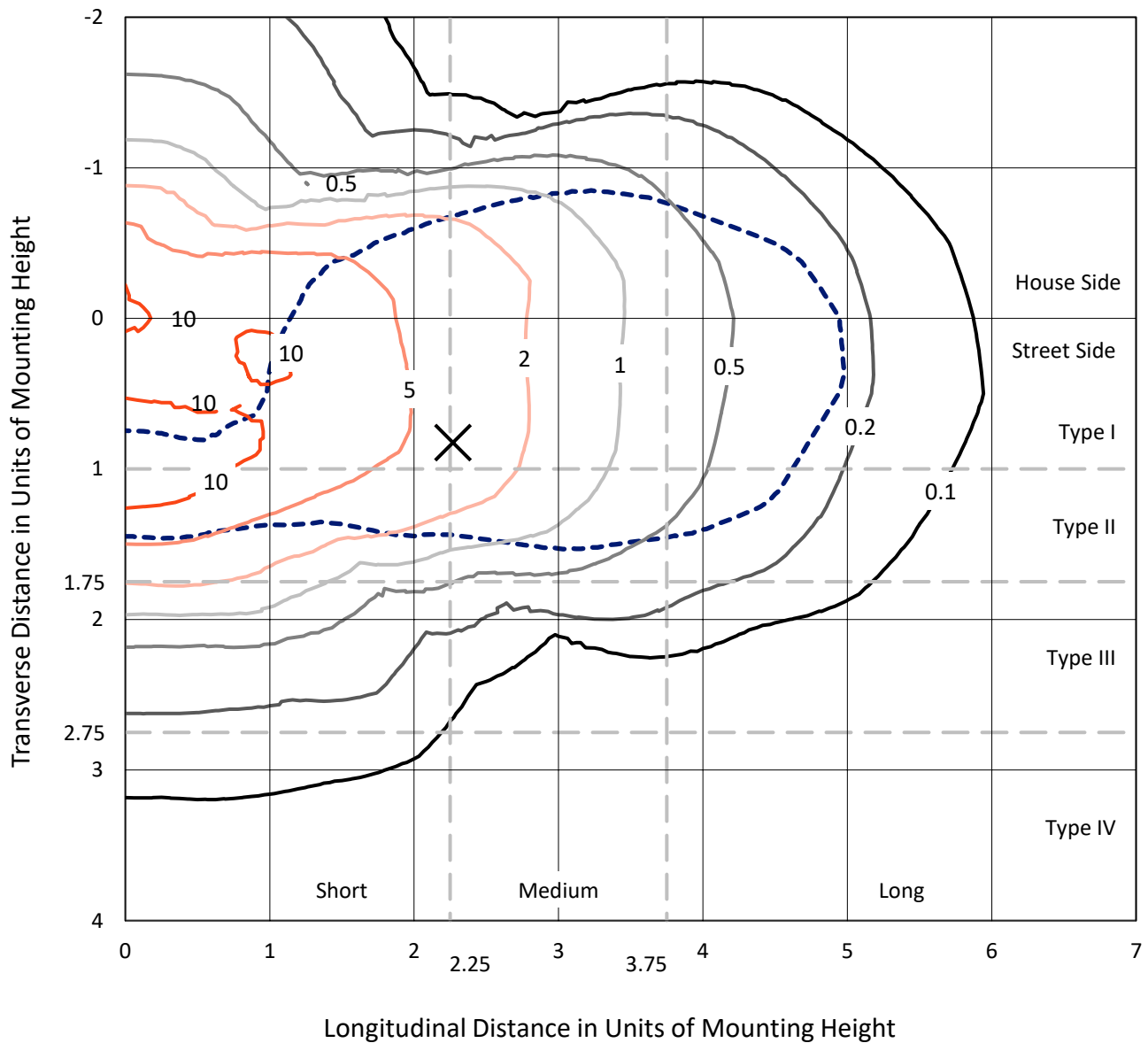
REPORT NUMBER: P561245

CATALOG NUMBER: SDL-PA1-90-730-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

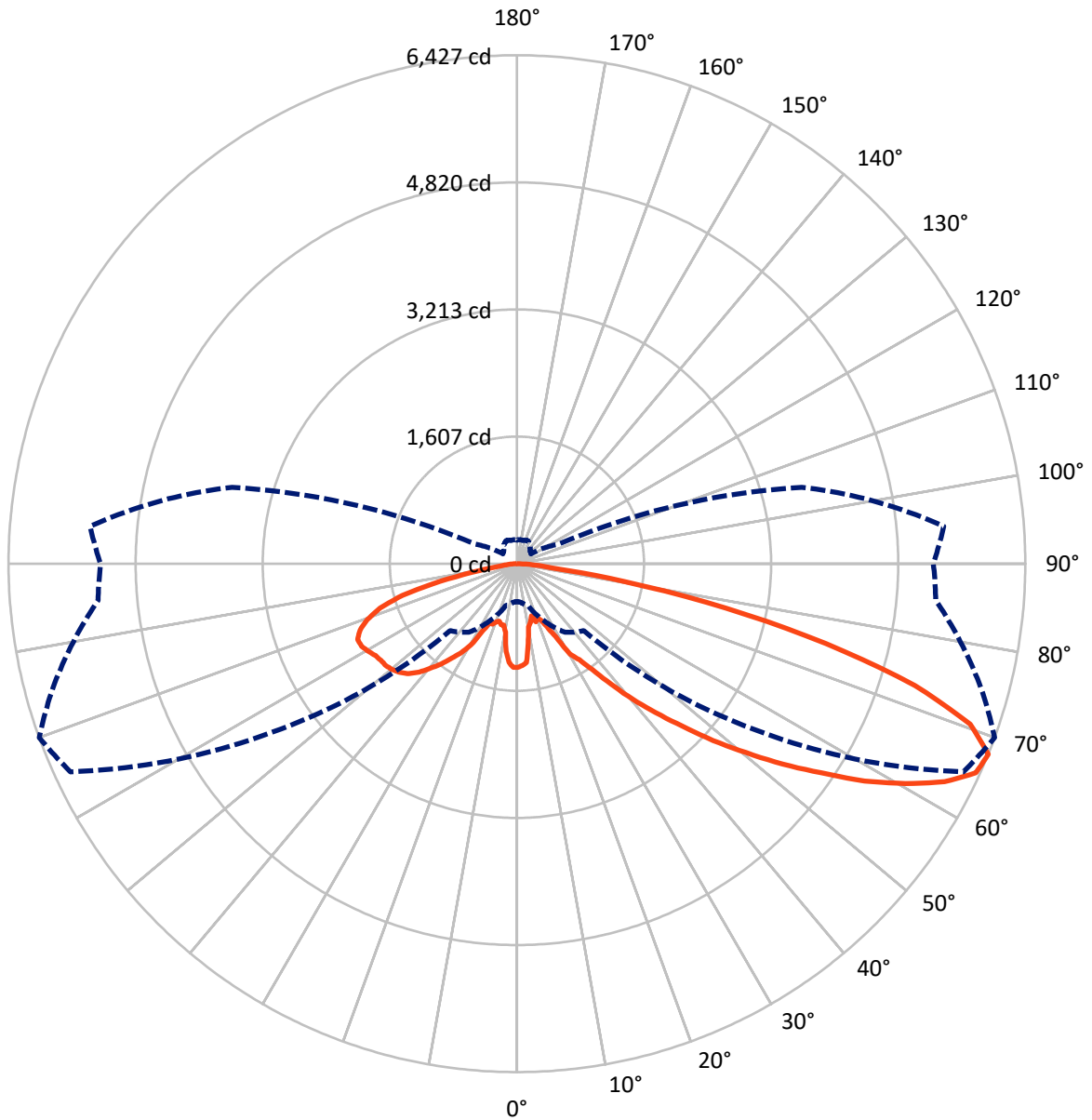


Based on 10 foot mounting height. Maximum calculated value = 17.1 fc
Type II - Medium - N/A

REPORT NUMBER: P561245

CATALOG NUMBER: SDL-PA1-90-730-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P561245

CATALOG NUMBER: SDL-PA1-90-730-U-T2U

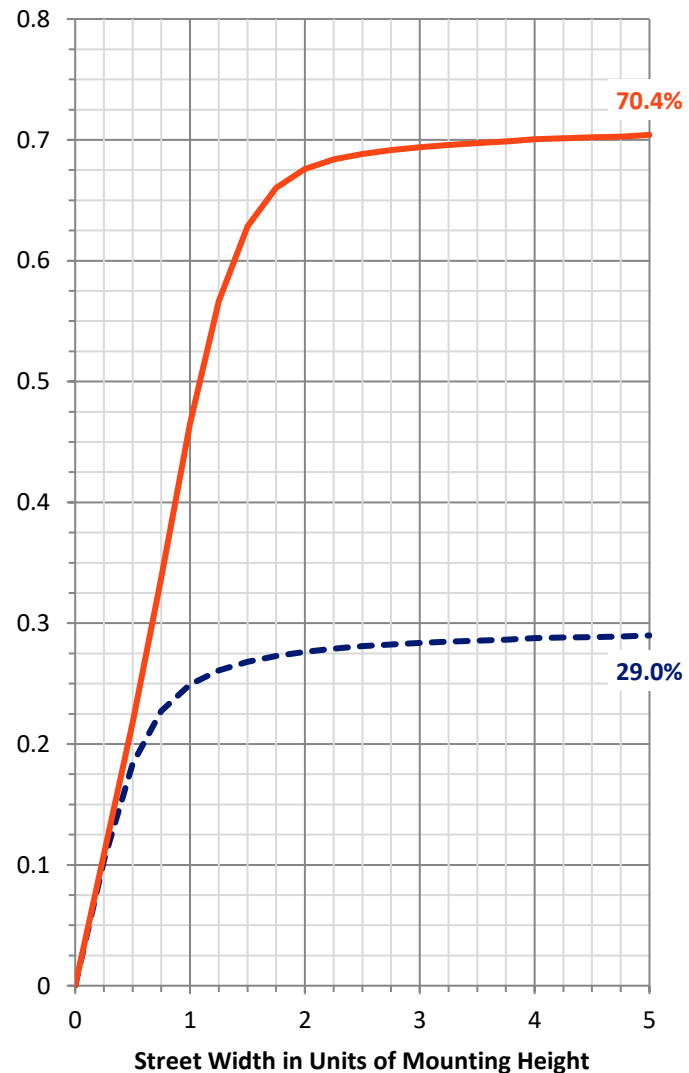
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2762.9	0.0	2762.9
	% Fixture	29.3	0.0	29.3
Street Side	Lumens	6658.5	0.0	6658.5
	% Fixture	70.7	0.0	70.7
Total	Lumens	9421.4	0.0	9421.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	1.1
10°-20°	246.7	2.6
20°-30°	438.3	4.7
30°-40°	926.4	9.8
40°-50°	1696.0	18.0
50°-60°	2313.7	24.6
60°-70°	2181.2	23.2
70°-80°	1320.1	14.0
80°-90°	193.9	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°	9421.4	100.0
0°-180°	9421.4	100.0



REPORT NUMBER: P561245

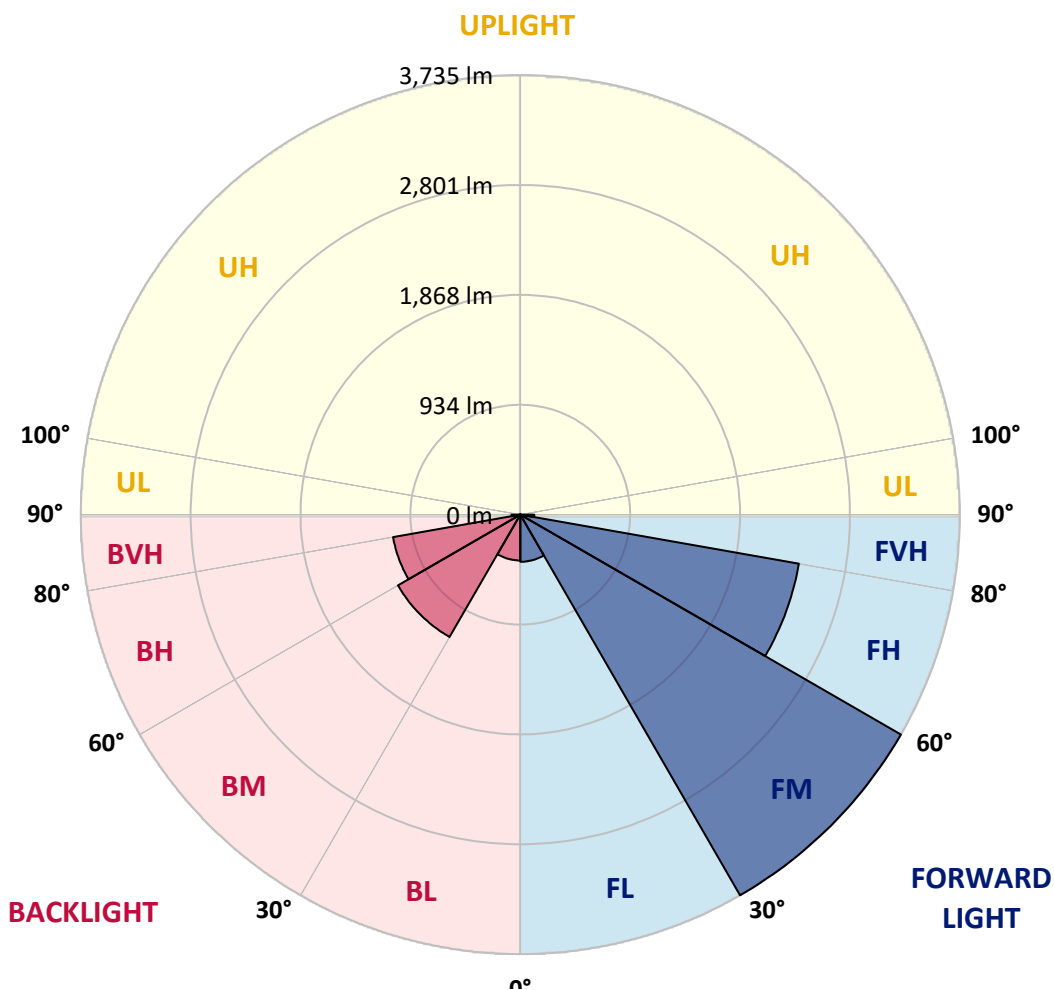
CATALOG NUMBER: SDL-PA1-90-730-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	400.9	4.3			
FM	(30°-60°)	3735.1	39.6			
FH	(60°-80°)	2403.7	25.5			G2/5000
FVH	(80°-90°)	118.9	1.3			G2/225
BL	(0°-30°)	389.1	4.1	B1/500		
BM	(30°-60°)	1201.1	12.7	B2/2500		
BH	(60°-80°)	1097.7	11.7	B3/2500		G3/2500
BVH	(80°-90°)	75.0	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





REPORT NUMBER: P561245

CATALOG NUMBER: SDL-PA1-90-730-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1311.8	1311.8	1311.8	1311.8	1311.8	1311.8	1311.8	1311.8	1311.8	1311.8	1311.8
2.5°	1101.7	1111.8	1179.6	1247.4	1250.8	1250.8	1254.2	1257.6	1267.7	1274.5	1281.3
5°	1027.1	1033.9	1033.9	1033.9	1037.2	1040.6	1044.0	1044.0	1050.8	1054.2	1061.0
7.5°	861.0	928.8	952.5	972.8	986.4	996.6	1003.3	1010.1	1016.9	1023.7	1030.5
10°	979.6	979.6	983.0	983.0	983.0	979.6	911.8	840.6	874.5	908.4	857.6
12.5°	806.7	820.3	881.3	938.9	955.9	969.5	935.6	898.3	837.3	776.2	769.5
15°	959.3	959.3	959.3	955.9	894.9	830.5	766.1	698.3	739.0	779.6	718.6
17.5°	830.5	830.5	881.3	928.8	925.4	918.6	861.0	800.0	705.1	606.8	684.7
20°	1047.4	1044.0	1027.1	1006.7	881.3	755.9	783.0	810.1	816.9	820.3	796.6
22.5°	935.6	938.9	959.3	979.6	983.0	986.4	840.6	691.5	776.2	861.0	779.6
25°	1301.6	1294.9	1264.4	1230.5	1091.5	949.1	976.2	1003.3	864.4	722.0	810.1
27.5°	1237.2	1216.9	1203.3	1189.8	1213.5	1237.2	1108.4	976.2	1006.7	1037.2	925.4
30°	1769.4	1769.4	1735.5	1698.2	1488.1	1274.5	1240.6	1206.7	1125.4	1040.6	1061.0
32.5°	2240.6	2240.6	2115.2	1986.4	1860.9	1735.5	1569.4	1403.3	1369.4	1332.2	1298.3
35°	2820.2	2803.3	2732.1	2657.5	2386.3	2115.2	1901.6	1688.1	1620.3	1552.5	1518.6
37.5°	3362.6	3325.3	3227.0	3125.3	2840.6	2552.4	2271.1	1989.8	1915.2	1840.6	1766.0
40°	3810.0	3789.7	3721.9	3650.7	3328.7	3006.7	2688.0	2366.0	2267.7	2169.4	2060.9
42.5°	4220.2	4203.2	4142.2	4077.8	3759.2	3437.2	3135.5	2830.4	2684.6	2538.9	2410.1
45°	4521.9	4494.7	4454.1	4410.0	4155.8	3898.2	3593.1	3284.6	3227.0	3169.4	2918.5
47.5°	4616.8	4569.3	4562.5	4555.8	4352.4	4149.0	3904.9	3660.9	3671.0	3681.2	3389.7
50°	4477.8	4406.6	4437.1	4467.6	4386.3	4301.5	4111.7	3921.9	4006.6	4088.0	3857.5
52.5°	3972.7	3955.8	4033.7	4108.3	4128.6	4149.0	4108.3	4064.2	4220.2	4376.1	4291.4
55°	3277.8	3352.4	3460.9	3569.3	3654.1	3735.4	3854.1	3972.7	4240.5	4508.3	4569.3
57.5°	2582.9	2660.9	2786.3	2911.7	3010.0	3108.4	3352.4	3596.5	3999.8	4403.2	4677.8
60°	1738.9	1820.3	2027.0	2230.4	2369.4	2508.4	2728.7	2949.0	3457.5	3965.9	4521.9
62.5°	1159.3	1132.2	1305.0	1474.5	1698.2	1922.0	2020.3	2115.2	2647.4	3176.1	4074.4
65°	711.8	715.2	783.0	847.4	1094.9	1338.9	1416.9	1491.5	1793.1	2094.8	3318.5
67.5°	477.9	488.1	518.6	549.1	667.8	786.4	922.0	1057.6	1128.8	1196.6	2420.2
70°	423.7	427.1	440.7	454.2	488.1	522.0	647.4	772.9	732.2	688.1	1372.8
72.5°	372.9	376.3	400.0	420.3	437.3	454.2	528.8	603.4	555.9	508.5	684.7
75°	305.1	315.2	339.0	359.3	393.2	423.7	440.7	457.6	433.9	406.8	440.7
77.5°	250.8	257.6	274.6	291.5	325.4	355.9	372.9	389.8	352.5	315.2	335.6
80°	196.6	200.0	213.6	227.1	254.2	278.0	298.3	315.2	281.3	244.1	254.2
82.5°	118.6	122.0	142.4	159.3	183.0	203.4	216.9	227.1	237.3	244.1	213.6
85°	64.4	64.4	78.0	91.5	94.9	98.3	111.9	122.0	152.5	179.7	155.9
87.5°	10.2	10.2	13.6	13.6	20.3	23.7	27.1	27.1	30.5	30.5	33.9
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: P561245

CATALOG NUMBER: SDL-PA1-90-730-U-T2U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1311.8	1311.8	1311.8	1311.8	1311.8	1311.8	1311.8	1311.8	1311.8	1311.8	1311.8
2.5°	1284.7	1288.1	1288.1	1288.1	1291.5	1294.9	1298.3	1298.3	1301.6	1305.0	1308.4
5°	1067.8	1155.9	1240.6	1254.2	1264.4	1271.1	1277.9	1281.3	1288.1	1294.9	1298.3
7.5°	1037.2	1037.2	1037.2	1013.5	1101.7	1111.8	1122.0	1128.8	1135.5	1128.8	1118.6
10°	803.4	803.4	800.0	806.7	844.0	908.4	969.5	976.2	983.0	928.8	871.2
12.5°	759.3	769.5	779.6	762.7	694.9	752.5	810.1	820.3	823.7	776.2	725.4
15°	654.2	657.6	661.0	684.7	823.7	881.3	938.9	949.1	959.3	908.4	854.2
17.5°	759.3	735.6	708.4	772.9	718.6	755.9	789.8	708.4	783.0	769.5	755.9
20°	772.9	691.5	606.8	722.0	844.0	901.7	955.9	962.7	966.1	925.4	881.3
22.5°	698.3	776.2	854.2	776.2	728.8	722.0	715.2	711.8	715.2	739.0	759.3
25°	898.3	800.0	701.7	881.3	993.2	1020.3	1047.4	1033.9	1027.1	976.2	925.4
27.5°	813.5	891.5	966.1	1040.6	1074.5	1111.8	1145.7	1155.9	1101.7	1047.4	993.2
30°	1077.9	1125.4	1169.4	1322.0	1433.8	1467.7	1501.6	1467.7	1447.4	1379.6	1308.4
32.5°	1261.0	1355.9	1450.8	1447.4	1552.5	1579.6	1603.3	1559.3	1522.0	1447.4	1369.4
35°	1484.7	1545.7	1606.7	1640.6	1745.7	1755.9	1766.0	1708.4	1654.2	1566.0	1477.9
37.5°	1691.5	1769.4	1844.0	1928.7	2020.3	1999.9	1976.2	1905.0	1816.9	1749.1	1681.3
40°	1949.1	2044.0	2138.9	2247.4	2301.6	2271.1	2237.2	2128.7	2044.0	1972.8	1901.6
42.5°	2277.9	2379.6	2477.9	2572.8	2593.1	2559.2	2521.9	2403.3	2274.5	2203.3	2128.7
45°	2664.3	2745.7	2827.0	2925.3	2966.0	2905.0	2840.6	2691.4	2538.9	2437.2	2335.5
47.5°	3094.8	3132.1	3169.4	3338.9	3393.1	3291.4	3186.3	3023.6	2810.1	2677.9	2542.3
50°	3627.0	3616.8	3603.2	3752.4	3877.8	3708.3	3535.5	3345.6	3135.5	2949.0	2759.2
52.5°	4206.6	4108.3	4006.6	4206.6	4267.6	4064.2	3860.9	3657.5	3447.3	3206.7	2962.6
55°	4630.3	4576.1	4521.9	4664.2	4657.4	4420.2	4179.5	3938.8	3766.0	3443.9	3121.9
57.5°	4949.0	4996.4	5040.5	5182.8	5020.1	4749.0	4477.8	4237.1	4088.0	3684.6	3281.2
60°	5074.4	5318.4	5559.1	5643.8	5396.4	5091.3	4782.9	4545.6	4420.2	3932.0	3443.9
62.5°	4972.7	5511.6	6050.6	6067.6	5742.1	5399.8	5057.4	4864.2	4799.8	4199.8	3596.5
65°	4542.2	5430.3	6315.0	6376.0	6009.9	5650.6	5287.9	5145.6	5186.2	4450.7	3711.7
67.5°	3640.5	4935.4	6226.9	6426.9	6074.3	5694.7	5315.0	5264.2	5416.7	4572.7	3728.7
70°	2057.5	3793.1	5525.2	6081.1	5894.7	5518.4	5138.8	5162.5	5389.6	4504.9	3620.2
72.5°	857.6	2623.6	4389.7	5260.8	5423.5	5104.9	4782.9	4871.0	5026.9	4186.3	3342.2
75°	474.6	1674.5	2874.5	4033.7	4535.4	4450.7	4362.5	4460.8	4386.3	3572.7	2759.2
77.5°	352.5	905.0	1457.6	2701.6	3413.4	3606.6	3796.5	3843.9	3427.0	2610.1	1793.1
80°	264.4	430.5	593.2	1379.6	1830.4	2176.2	2521.9	2308.4	2016.9	1410.1	803.4
82.5°	183.0	247.4	311.9	444.1	711.8	820.3	925.4	881.3	661.0	464.4	264.4
85°	128.8	162.7	196.6	244.1	305.1	244.1	183.0	149.1	172.9	159.3	145.8
87.5°	33.9	33.9	30.5	33.9	23.7	20.3	16.9	13.6	13.6	13.6	13.6
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: P561245

CATALOG NUMBER: SDL-PA1-90-730-U-T2U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1311.8	1311.8	1311.8	1311.8	1311.8	1311.8	1311.8	1311.8	1311.8	1311.8	1311.8
2.5°	1311.8	1315.2	1315.2	1315.2	1315.2	1311.8	1294.9	1277.9	1237.2	1196.6	1183.0
5°	1254.2	1210.1	1176.2	1142.3	1142.3	1142.3	1149.1	1155.9	1159.3	1162.7	1166.1
7.5°	1118.6	1115.2	1128.8	1142.3	1152.5	1162.7	1169.4	1176.2	1162.7	1149.1	1118.6
10°	874.5	874.5	891.5	905.0	928.8	952.5	1020.3	1088.1	1145.7	1203.3	1213.5
12.5°	793.2	857.6	820.3	779.6	864.4	949.1	1023.7	1094.9	1152.5	1206.7	1162.7
15°	796.6	735.6	749.1	762.7	854.2	945.7	877.9	806.7	942.3	1074.5	1105.0
17.5°	759.3	762.7	823.7	884.7	793.2	698.3	816.9	935.6	986.4	1033.9	989.8
20°	779.6	674.5	745.7	816.9	881.3	942.3	881.3	816.9	833.9	850.8	966.1
22.5°	823.7	888.1	827.1	766.1	840.6	911.8	881.3	850.8	905.0	955.9	908.4
25°	820.3	711.8	813.5	915.2	847.4	776.2	813.5	850.8	823.7	793.2	881.3
27.5°	945.7	898.3	871.2	840.6	877.9	915.2	837.3	759.3	759.3	759.3	749.1
30°	1183.0	1057.6	1003.3	945.7	854.2	762.7	735.6	708.4	711.8	715.2	766.1
32.5°	1322.0	1274.5	1111.8	949.1	864.4	779.6	708.4	637.3	644.0	650.8	715.2
35°	1444.0	1406.7	1189.8	969.5	830.5	688.1	627.1	562.7	593.2	620.3	674.5
37.5°	1583.0	1481.3	1186.4	888.1	739.0	589.8	552.5	515.2	535.6	552.5	586.4
40°	1708.4	1511.8	1155.9	796.6	647.4	494.9	477.9	457.6	474.6	491.5	511.8
42.5°	1844.0	1555.9	1111.8	664.4	545.7	427.1	420.3	413.5	430.5	447.4	461.0
45°	1949.1	1562.6	1054.2	542.4	464.4	386.4	386.4	383.0	400.0	413.5	420.3
47.5°	2016.9	1488.1	962.7	433.9	400.0	366.1	369.5	369.5	383.0	393.2	396.6
50°	2064.3	1366.0	874.5	383.0	366.1	349.1	349.1	349.1	362.7	372.9	379.6
52.5°	2098.2	1230.5	793.2	352.5	345.7	335.6	335.6	332.2	349.1	366.1	369.5
55°	2108.4	1091.5	711.8	328.8	322.0	315.2	322.0	325.4	345.7	362.7	366.1
57.5°	2132.1	983.0	644.0	305.1	301.7	298.3	308.5	318.6	339.0	359.3	359.3
60°	2179.6	911.8	596.6	281.3	281.3	281.3	298.3	311.9	332.2	352.5	349.1
62.5°	2223.6	847.4	552.5	257.6	261.0	264.4	284.7	305.1	325.4	345.7	342.4
65°	2230.4	745.7	491.5	237.3	244.1	247.4	271.2	294.9	315.2	335.6	328.8
67.5°	2155.8	583.0	400.0	216.9	227.1	233.9	261.0	284.7	305.1	322.0	315.2
70°	2020.3	416.9	308.5	200.0	210.2	216.9	244.1	267.8	284.7	301.7	294.9
72.5°	1820.3	298.3	240.7	183.0	189.8	196.6	220.3	244.1	264.4	281.3	274.6
75°	1501.6	240.7	203.4	166.1	172.9	176.3	200.0	220.3	240.7	257.6	247.4
77.5°	996.6	196.6	172.9	149.1	152.5	155.9	176.3	193.2	210.2	223.7	216.9
80°	481.3	159.3	145.8	128.8	132.2	132.2	149.1	166.1	179.7	189.8	186.4
82.5°	196.6	125.4	115.2	105.1	105.1	105.1	122.0	135.6	149.1	159.3	152.5
85°	122.0	98.3	91.5	81.4	78.0	74.6	81.4	88.1	94.9	98.3	94.9
87.5°	16.9	16.9	20.3	23.7	20.3	13.6	20.3	27.1	27.1	23.7	20.3
90°	0.0	0.0	10.2	10.2	6.8	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P561245

CATALOG NUMBER: SDL-PA1-90-730-U-T2U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1311.8	1311.8	1311.8	1311.8
2.5°	1169.4	1169.4	1169.4	1176.2
5°	1166.1	1166.1	1166.1	1172.8
7.5°	1088.1	1054.2	1020.3	1023.7
10°	1220.3	1223.7	1223.7	1227.1
12.5°	1115.2	1061.0	1006.7	1013.5
15°	1135.5	1135.5	1132.2	1135.5
17.5°	945.7	928.8	911.8	911.8
20°	1081.3	1081.3	1081.3	1081.3
22.5°	861.0	857.6	854.2	857.6
25°	969.5	972.8	972.8	969.5
27.5°	739.0	783.0	823.7	827.1
30°	813.5	813.5	813.5	813.5
32.5°	779.6	813.5	847.4	850.8
35°	725.4	722.0	718.6	728.8
37.5°	616.9	610.1	603.4	603.4
40°	532.2	518.6	505.1	505.1
42.5°	471.2	461.0	447.4	444.1
45°	427.1	416.9	403.4	403.4
47.5°	396.6	389.8	383.0	379.6
50°	383.0	376.3	369.5	369.5
52.5°	372.9	369.5	362.7	362.7
55°	366.1	362.7	355.9	355.9
57.5°	359.3	355.9	349.1	349.1
60°	345.7	342.4	339.0	339.0
62.5°	335.6	332.2	328.8	328.8
65°	322.0	322.0	318.6	315.2
67.5°	305.1	305.1	305.1	298.3
70°	284.7	284.7	284.7	278.0
72.5°	264.4	264.4	261.0	250.8
75°	237.3	233.9	230.5	223.7
77.5°	210.2	203.4	196.6	193.2
80°	179.7	172.9	166.1	159.3
82.5°	142.4	139.0	132.2	115.2
85°	88.1	78.0	64.4	57.6
87.5°	16.9	13.6	10.2	3.4
90°	0.0	0.0	0.0	0.0



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