

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: P559984

Luminaire Tested: **SDL-PA1-20-727-U-T2R-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P559984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-19)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-20-727-U-T2R-A
Description: Springdale
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE II R OPTICS
AND CLEAR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1889.2 lumens
Efficiency: N/A
Efficacy: 90.0 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: B1 - U2 - G1

Input Watts (W): 21
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

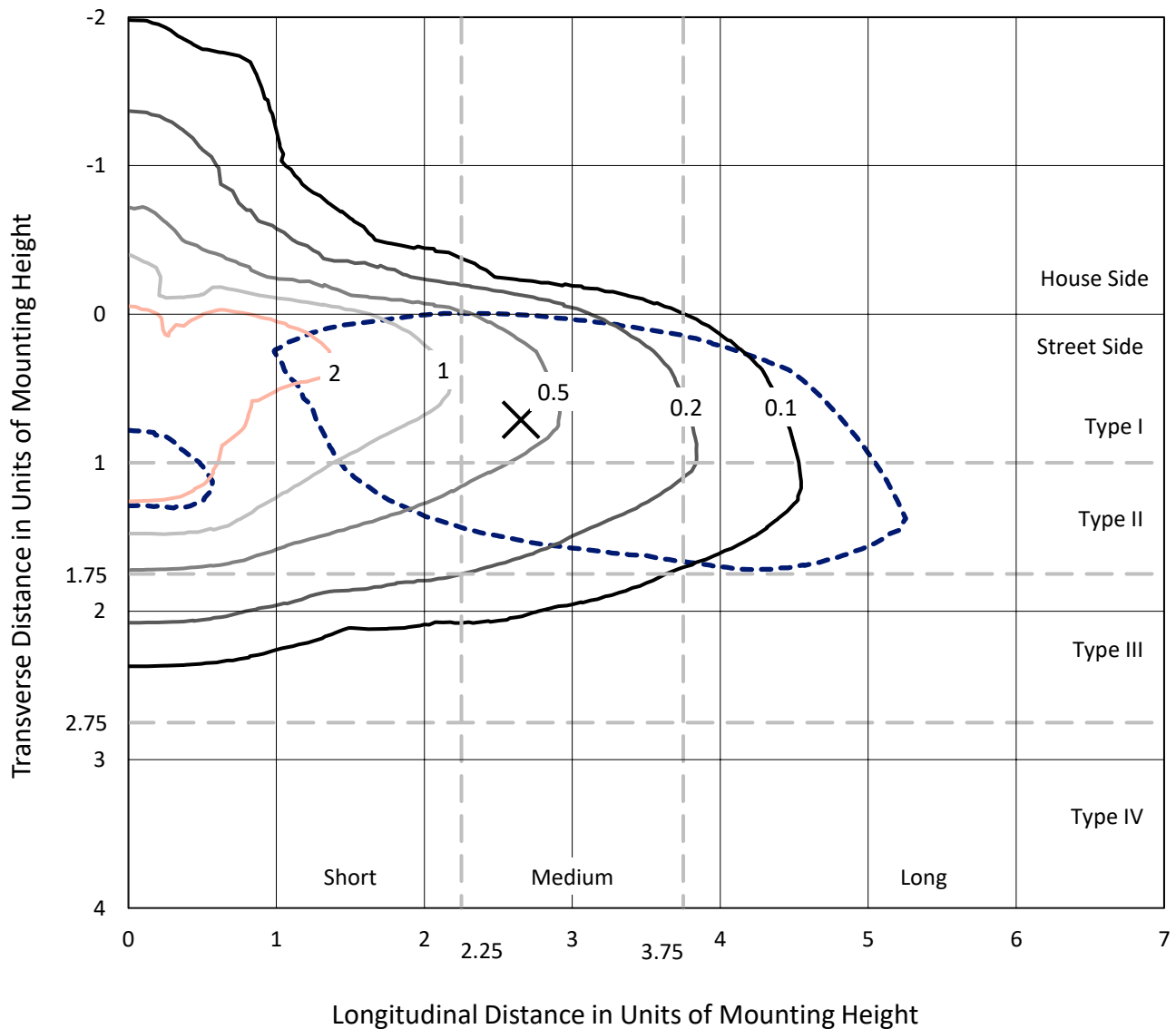


REPORT NUMBER: P559984

CATALOG NUMBER: SDL-PA1-20-727-U-T2R-A

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

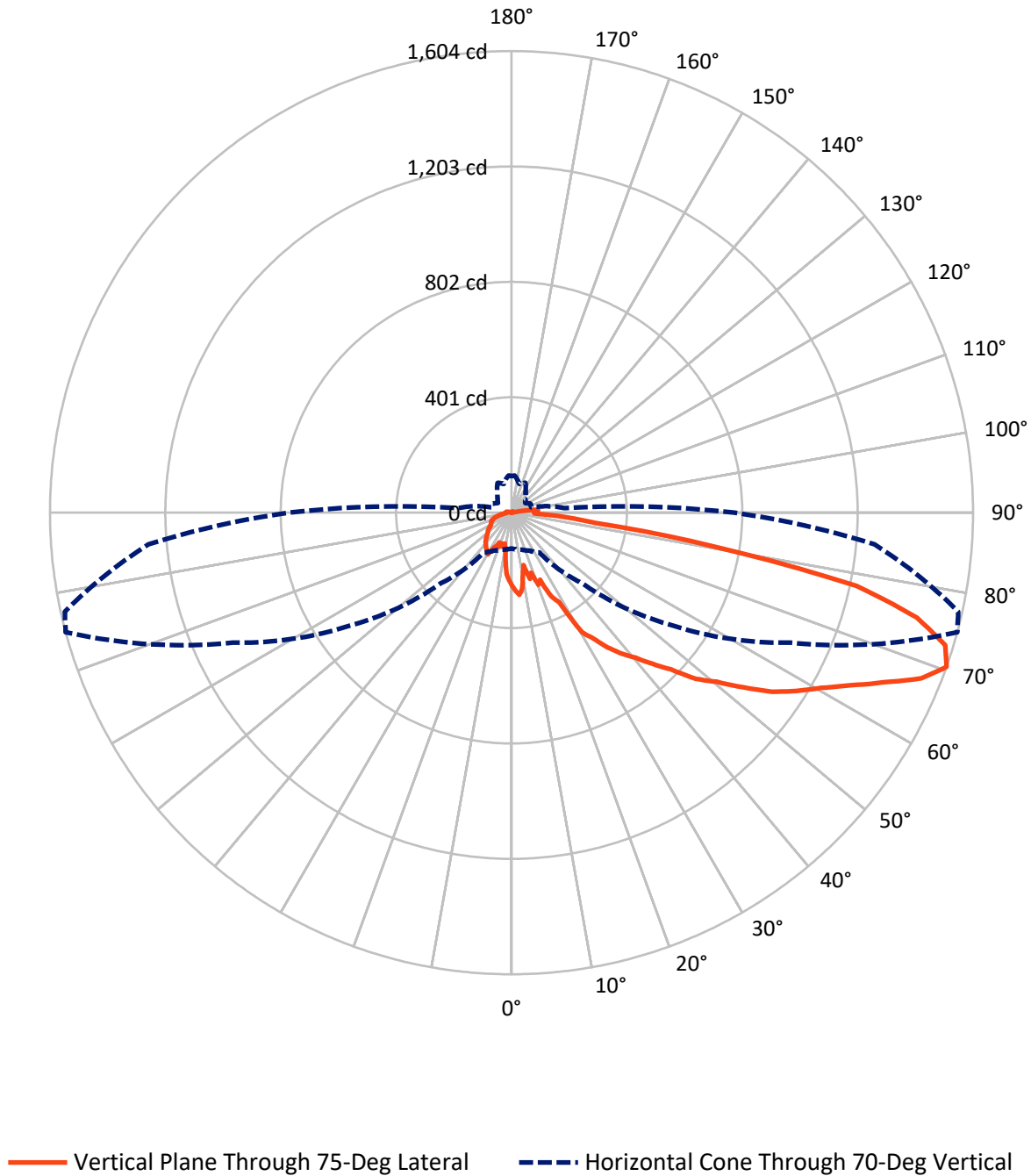


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P559984

CATALOG NUMBER: SDL-PA1-20-727-U-T2R-A

Luminous Intensity Polar Plot



REPORT NUMBER: P559984

CATALOG NUMBER: SDL-PA1-20-727-U-T2R-A

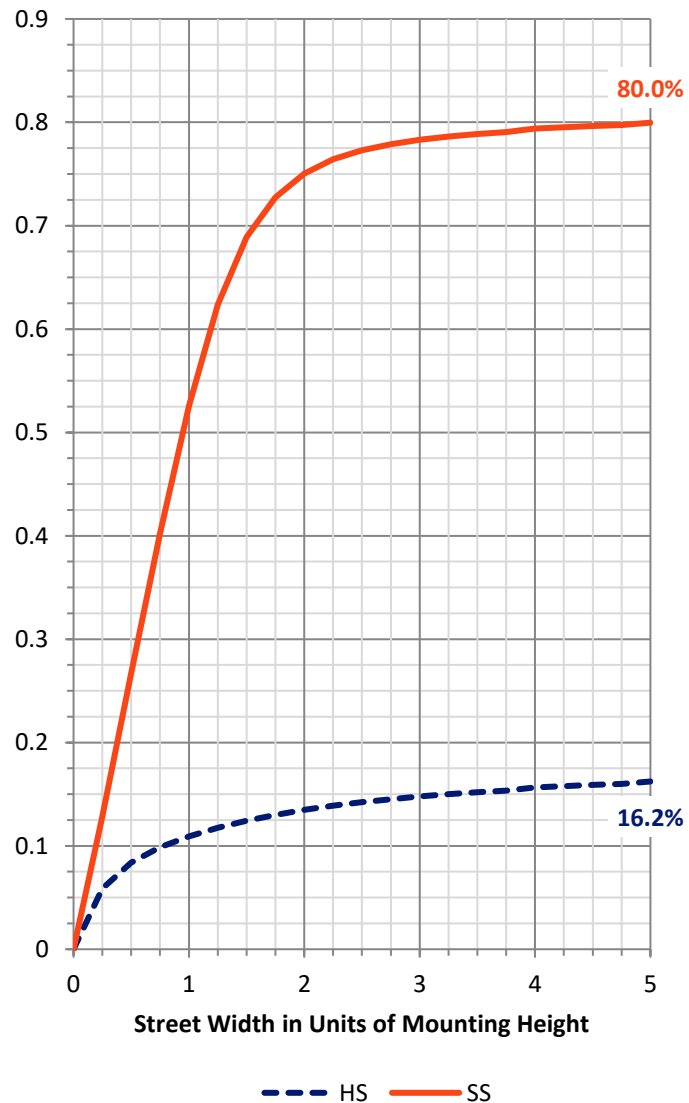
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	323.0	19.3	342.3
	% Fixture	17.1	1.0	18.1
Street Side	Lumens	1522.5	24.4	1546.9
	% Fixture	80.6	1.3	81.9
Total	Lumens	1845.5	43.7	1889.2
	% Fixture	97.7	2.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.1	1.1
10°-20°	55.1	2.9
20°-30°	99.5	5.3
30°-40°	203.3	10.8
40°-50°	319.2	16.9
50°-60°	392.0	20.7
60°-70°	389.9	20.6
70°-80°	288.4	15.3
80°-90°	77.0	4.1
90°-100°	28.5	1.5
100°-110°	6.7	0.4
110°-120°	3.2	0.2
120°-130°	2.8	0.1
130°-140°	1.4	0.1
140°-150°	0.7	0.0
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1845.5	97.7
0°-180°	1889.2	100.0

Coefficient of Utilization



REPORT NUMBER: P559984

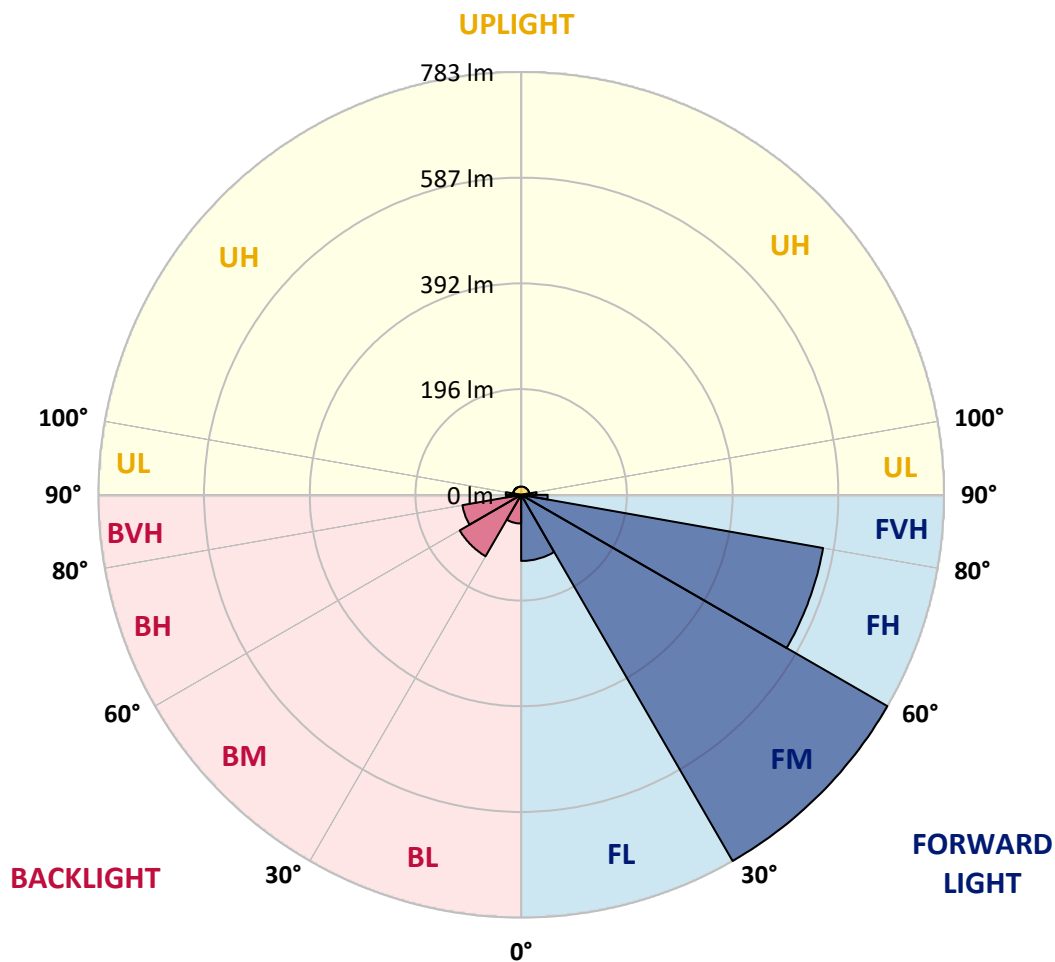
CATALOG NUMBER: SDL-PA1-20-727-U-T2R-A

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	122.4	6.5			
FM	(30°-60°)	783.1	41.5			
FH	(60°-80°)	567.8	30.1			G0/660
FVH	(80°-90°)	49.2	2.6			G1/100
BL	(0°-30°)	53.2	2.8	B0/110		
BM	(30°-60°)	131.4	7.0	B0/220		
BH	(60°-80°)	110.5	5.8	B1/500		G1/500
BVH	(80°-90°)	27.9	1.5			G1/100
UL	(90°-100°)	28.5	1.5		U2/50	
UH	(100°-180°)	15.3	0.8		U2/50	

BUG Rating: B1-U2-G1

Type II Medium



REPORT NUMBER: P559984

CATALOG NUMBER: SDL-PA1-20-727-U-T2R-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2
2.5°	262.8	277.6	284.2	291.6	298.3	294.6	288.7	279.8	271.7	268.7	259.9
5°	290.1	288.7	287.9	285.7	282.0	275.4	267.3	299.0	286.5	281.3	266.5
7.5°	255.4	296.0	300.5	304.9	303.4	295.3	285.0	256.2	267.3	260.6	242.2
10°	312.3	312.3	310.8	312.3	295.3	282.0	241.4	224.4	216.3	234.0	217.1
12.5°	265.8	289.4	318.9	324.8	299.0	262.1	245.1	237.0	186.8	184.6	197.9
15°	309.3	313.0	313.8	315.2	254.7	274.6	226.7	210.4	238.5	231.8	234.0
17.5°	248.8	252.5	300.5	297.5	273.9	219.3	265.0	237.7	219.3	211.1	208.2
20°	313.0	313.8	311.6	251.8	264.3	286.5	248.1	240.7	267.3	266.5	255.4
22.5°	266.5	267.3	275.4	303.4	273.2	289.4	249.5	300.5	253.2	254.0	197.1
25°	356.6	357.3	349.9	270.2	307.1	271.7	302.7	270.2	323.4	313.0	288.7
27.5°	374.3	347.0	318.9	335.2	293.1	337.4	287.9	327.1	351.4	349.2	352.9
30°	474.7	476.2	457.0	366.9	343.3	333.0	332.2	388.3	481.4	485.0	423.8
32.5°	643.0	634.2	539.7	452.6	369.9	406.1	372.8	449.6	520.5	518.3	454.0
35°	719.8	711.0	675.5	558.9	427.5	438.5	420.8	478.4	574.4	557.4	484.3
37.5°	784.8	783.3	753.8	615.7	485.8	502.0	449.6	513.8	620.9	603.2	515.3
40°	840.9	835.7	809.9	666.7	545.6	546.3	485.8	556.7	662.2	666.7	545.6
42.5°	887.4	883.0	861.6	717.6	581.0	585.5	524.2	600.2	717.6	725.7	592.8
45°	906.6	908.8	894.1	763.4	612.8	620.9	570.0	644.5	776.7	783.3	634.9
47.5°	920.6	921.4	917.7	801.0	646.7	650.4	615.0	684.4	862.3	849.0	684.4
50°	888.9	885.9	889.6	829.8	676.3	680.7	652.6	725.7	923.6	906.6	736.1
52.5°	805.5	809.2	847.5	815.1	685.9	694.7	688.1	761.9	1008.5	995.2	809.9
55°	595.8	612.0	722.8	754.5	685.1	700.6	720.6	830.6	1097.8	1077.9	872.6
57.5°	482.1	482.1	547.1	651.2	647.5	696.9	753.8	877.1	1168.7	1154.7	935.4
60°	386.9	386.9	422.3	516.8	574.4	678.5	787.7	945.7	1235.9	1227.8	990.8
62.5°	303.4	302.7	332.2	385.4	471.0	637.9	805.5	1004.8	1320.0	1318.6	1079.4
65°	219.3	222.2	247.3	280.5	369.9	561.8	804.7	1058.0	1421.2	1425.6	1179.0
67.5°	162.4	163.9	177.9	202.3	254.0	465.9	769.3	1094.9	1535.6	1528.2	1242.5
70°	124.8	127.0	132.9	145.4	169.1	346.3	683.6	1069.0	1603.5	1589.5	1266.1
72.5°	104.8	105.6	104.8	111.5	113.0	234.8	547.8	970.8	1575.5	1553.3	1201.2
75°	89.3	88.6	87.9	89.3	83.4	155.0	392.8	821.7	1454.4	1416.0	1060.9
77.5°	76.8	76.0	73.1	73.8	66.4	114.4	268.0	644.5	1225.5	1135.5	797.3
80°	63.5	63.5	61.3	61.3	56.1	87.1	171.3	444.4	713.9	642.3	414.9
82.5°	49.5	48.7	48.7	50.2	48.0	67.9	112.2	221.5	294.6	276.1	194.2
85°	26.6	26.6	30.3	34.0	33.2	41.3	85.6	130.7	174.2	168.3	108.5
87.5°	8.1	8.1	8.9	11.1	11.8	22.1	53.9	63.5	79.0	87.1	85.6
90°	8.9	8.1	5.9	6.6	7.4	16.2	50.2	61.3	79.7	88.6	90.8
92.5°	10.3	9.6	5.9	5.9	7.4	13.3	48.0	59.8	87.1	96.0	98.2
95°	11.1	10.3	5.9	5.9	7.4	11.8	42.8	59.1	93.0	104.8	104.8
97.5°	10.3	9.6	4.4	5.2	6.6	10.3	33.2	48.7	65.0	71.6	82.7
100°	8.9	8.9	3.0	4.4	5.9	7.4	19.2	26.6	19.2	18.5	18.5
102.5°	8.1	8.1	3.0	3.7	4.4	5.2	8.9	14.0	4.4	5.2	6.6
105°	8.1	8.9	2.2	3.0	3.0	3.0	4.4	7.4	3.7	4.4	6.6
107.5°	8.1	8.9	2.2	2.2	3.0	2.2	2.2	3.0	3.7	4.4	7.4
110°	7.4	7.4	1.5	2.2	2.2	2.2	1.5	2.2	3.7	5.2	7.4

REPORT NUMBER: P559984

CATALOG NUMBER: SDL-PA1-20-727-U-T2R-A

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
112.5°	5.2	5.2	1.5	2.2	2.2	2.2	1.5	2.2	3.7	5.2	7.4
115°	3.7	3.0	1.5	2.2	1.5	2.2	1.5	2.2	3.7	5.2	6.6
117.5°	3.0	2.2	1.5	1.5	1.5	1.5	0.7	2.2	4.4	5.9	8.1
120°	3.0	3.0	1.5	1.5	1.5	1.5	0.7	2.2	6.6	7.4	10.3
122.5°	3.0	3.0	1.5	1.5	1.5	1.5	0.7	1.5	5.9	8.1	11.1
125°	3.0	3.0	1.5	1.5	1.5	1.5	0.7	1.5	5.2	7.4	9.6
127.5°	3.0	3.0	1.5	0.7	1.5	1.5	1.5	1.5	4.4	5.9	8.1
130°	3.0	3.0	1.5	0.7	1.5	1.5	1.5	1.5	3.7	4.4	6.6
132.5°	2.2	2.2	1.5	0.7	1.5	0.7	0.7	1.5	3.0	3.7	5.2
135°	1.5	1.5	1.5	0.7	1.5	0.7	0.7	0.7	1.5	2.2	3.7
137.5°	0.7	1.5	0.7	0.7	1.5	0.7	0.7	0.7	0.7	0.7	1.5
140°	0.7	0.7	0.7	0.7	1.5	0.7	0.7	0.7	0.7	0.7	0.7
142.5°	0.7	0.7	0.7	0.7	1.5	1.5	0.7	0.7	0.7	0.7	0.7
145°	0.7	0.7	0.7	0.7	2.2	1.5	0.7	0.7	0.7	0.7	0.7
147.5°	0.7	0.7	0.7	3.0	2.2	1.5	0.7	0.7	0.7	0.7	0.7
150°	3.7	3.7	3.7	3.0	2.2	1.5	2.2	0.7	0.7	0.7	0.7
152.5°	3.7	3.7	4.4	2.2	1.5	0.7	0.7	3.0	2.2	1.5	1.5
155°	3.0	2.2	2.2	0.7	0.7	0.7	0.7	0.7	2.2	3.0	3.0
157.5°	0.7	0.7	1.5	0.7	0.7	0.7	0.7	0.7	1.5	0.7	0.7
160°	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P559984

CATALOG NUMBER: SDL-PA1-20-727-U-T2R-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2
2.5°	254.7	248.8	234.8	224.4	211.9	200.8	191.2	169.8	166.1	163.9	163.2
5°	254.7	242.2	214.8	181.6	155.8	149.9	146.9	146.9	145.4	146.2	146.9
7.5°	225.9	208.9	167.6	141.7	146.2	146.2	146.9	143.2	131.4	132.9	130.7
10°	197.9	176.4	126.2	115.2	126.2	127.0	144.0	150.6	152.8	153.6	153.6
12.5°	182.4	152.1	109.3	113.0	101.9	116.6	137.3	153.6	139.5	132.2	132.2
15°	209.7	180.1	122.6	98.9	100.4	116.6	104.1	145.4	150.6	152.1	152.1
17.5°	188.3	158.7	112.2	101.9	112.2	96.0	117.4	133.6	127.7	121.1	120.3
20°	225.9	187.5	125.5	99.7	98.9	113.7	104.1	109.3	136.6	137.3	136.6
22.5°	175.7	149.9	111.5	113.0	98.9	108.5	102.6	113.0	107.8	107.1	107.8
25°	243.6	194.2	128.5	97.5	103.4	96.0	103.4	95.2	114.4	115.9	116.6
27.5°	298.3	231.8	136.6	105.6	90.1	98.2	92.3	95.2	88.6	92.3	93.8
30°	355.1	270.2	166.9	116.6	95.2	84.2	85.6	84.9	96.0	95.2	93.8
32.5°	373.6	275.4	159.5	121.8	94.5	84.9	78.3	83.4	91.5	98.2	98.9
35°	392.0	279.1	153.6	116.6	92.3	79.7	76.8	85.6	92.3	93.0	95.2
37.5°	413.4	282.0	147.7	109.3	85.6	78.3	76.0	79.7	94.5	93.0	90.8
40°	433.4	283.5	140.3	102.6	78.3	76.8	70.9	79.7	83.4	86.4	87.9
42.5°	468.8	292.4	134.4	96.7	73.1	73.1	67.9	74.6	85.6	87.1	86.4
45°	494.6	289.4	126.2	91.5	67.9	65.0	66.4	81.2	86.4	95.2	93.8
47.5°	531.6	296.8	116.6	83.4	63.5	59.8	62.8	79.0	88.6	95.2	96.7
50°	567.7	295.3	108.5	76.8	60.5	56.8	69.4	76.8	87.1	98.2	98.2
52.5°	615.0	297.5	104.8	70.9	56.8	56.8	71.6	77.5	89.3	96.7	96.7
55°	657.1	289.4	96.0	68.7	56.1	54.6	72.4	80.5	90.1	96.7	97.5
57.5°	688.1	273.2	89.3	66.4	55.4	56.1	72.4	87.1	84.2	96.7	98.9
60°	722.0	255.4	83.4	66.4	55.4	58.3	74.6	92.3	92.3	101.1	101.1
62.5°	768.5	244.4	80.5	67.2	53.9	60.5	81.2	100.4	93.0	107.1	107.8
65°	807.7	229.6	78.3	70.1	54.6	63.5	84.9	107.1	97.5	113.7	113.0
67.5°	808.4	207.5	75.3	73.1	55.4	65.7	84.9	111.5	102.6	119.6	117.4
70°	773.0	185.3	70.9	73.1	57.6	67.9	84.9	114.4	103.4	129.2	127.0
72.5°	696.9	151.3	64.2	70.1	61.3	70.9	89.3	113.7	103.4	139.5	137.3
75°	592.8	121.1	55.4	64.2	61.3	74.6	92.3	113.0	99.7	132.9	128.5
77.5°	451.1	98.9	46.5	56.1	58.3	76.0	92.3	111.5	96.7	124.0	121.1
80°	232.6	69.4	37.7	48.0	54.6	74.6	91.5	105.6	86.4	110.0	108.5
82.5°	127.7	50.9	30.3	35.4	45.8	70.1	88.6	95.2	76.0	90.1	86.4
85°	82.7	36.9	24.4	28.8	38.4	58.3	74.6	75.3	53.9	65.0	61.3
87.5°	62.0	21.4	15.5	17.7	26.6	32.5	47.2	48.7	34.0	39.9	37.7
90°	65.0	21.4	16.2	18.5	23.6	24.4	34.7	36.9	26.6	30.3	30.3
92.5°	69.4	21.4	17.0	19.2	21.4	19.2	27.3	30.3	22.1	24.4	23.6
95°	70.9	20.7	18.5	19.9	19.2	15.5	22.1	24.4	18.5	18.5	18.5
97.5°	51.7	14.8	18.5	19.9	17.7	12.6	17.0	19.2	11.8	9.6	9.6
100°	14.0	7.4	17.7	19.2	15.5	10.3	14.8	14.8	7.4	5.2	5.2
102.5°	5.9	5.9	15.5	17.0	11.8	6.6	10.3	10.3	5.2	2.2	2.2
105°	5.9	4.4	11.1	12.6	8.1	3.7	5.2	5.9	3.7	2.2	2.2
107.5°	5.9	4.4	5.2	6.6	3.7	3.0	3.0	3.0	2.2	2.2	2.2
110°	6.6	4.4	3.0	3.7	3.0	2.2	2.2	2.2	2.2	3.0	3.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	7.4	5.2	3.0	3.7	3.0	2.2	2.2	2.2	3.0	6.6	6.6
115°	6.6	4.4	3.0	3.0	2.2	2.2	1.5	1.5	3.0	8.1	8.1
117.5°	7.4	5.2	3.0	3.0	2.2	1.5	1.5	1.5	3.7	9.6	9.6
120°	8.9	5.9	3.0	2.2	1.5	1.5	1.5	1.5	4.4	10.3	10.3
122.5°	9.6	6.6	3.0	2.2	1.5	0.7	1.5	2.2	5.2	10.3	10.3
125°	8.1	5.9	3.0	2.2	1.5	0.7	1.5	2.2	5.2	9.6	10.3
127.5°	7.4	5.2	3.0	1.5	1.5	0.7	0.7	2.2	4.4	7.4	8.9
130°	5.9	4.4	2.2	1.5	1.5	0.7	0.7	1.5	4.4	6.6	8.1
132.5°	5.2	3.7	2.2	1.5	1.5	0.7	0.7	1.5	4.4	5.9	5.9
135°	3.7	3.0	1.5	1.5	1.5	0.7	1.5	0.7	3.0	5.2	5.2
137.5°	2.2	1.5	1.5	1.5	1.5	0.7	0.7	0.7	2.2	3.0	3.0
140°	0.7	0.7	1.5	1.5	1.5	0.7	0.7	0.7	1.5	1.5	1.5
142.5°	0.7	0.7	1.5	1.5	1.5	0.7	0.7	0.7	1.5	1.5	1.5
145°	0.7	0.7	0.7	1.5	1.5	0.7	0.7	0.7	0.7	0.7	1.5
147.5°	0.7	0.7	0.7	1.5	0.7	0.7	0.7	0.7	0.7	0.7	1.5
150°	0.7	0.7	0.7	1.5	1.5	0.7	0.7	1.5	1.5	1.5	1.5
152.5°	0.7	0.7	1.5	1.5	0.7	0.7	0.7	1.5	1.5	1.5	1.5
155°	2.2	2.2	1.5	1.5	0.7	0.7	0.0	0.7	1.5	1.5	1.5
157.5°	0.7	0.7	1.5	0.7	0.7	0.7	0.0	0.7	0.7	0.7	0.7
160°	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.7	0.7	0.7	0.7
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)