

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: P559996

Luminaire Tested: **SDL-PA1-20-727-U-T4W-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P559996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-11)
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-T4W-A
Description: Springdale
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND CLEAR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2125.9 lumens
Efficiency: N/A
Efficacy: 101.2 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: 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

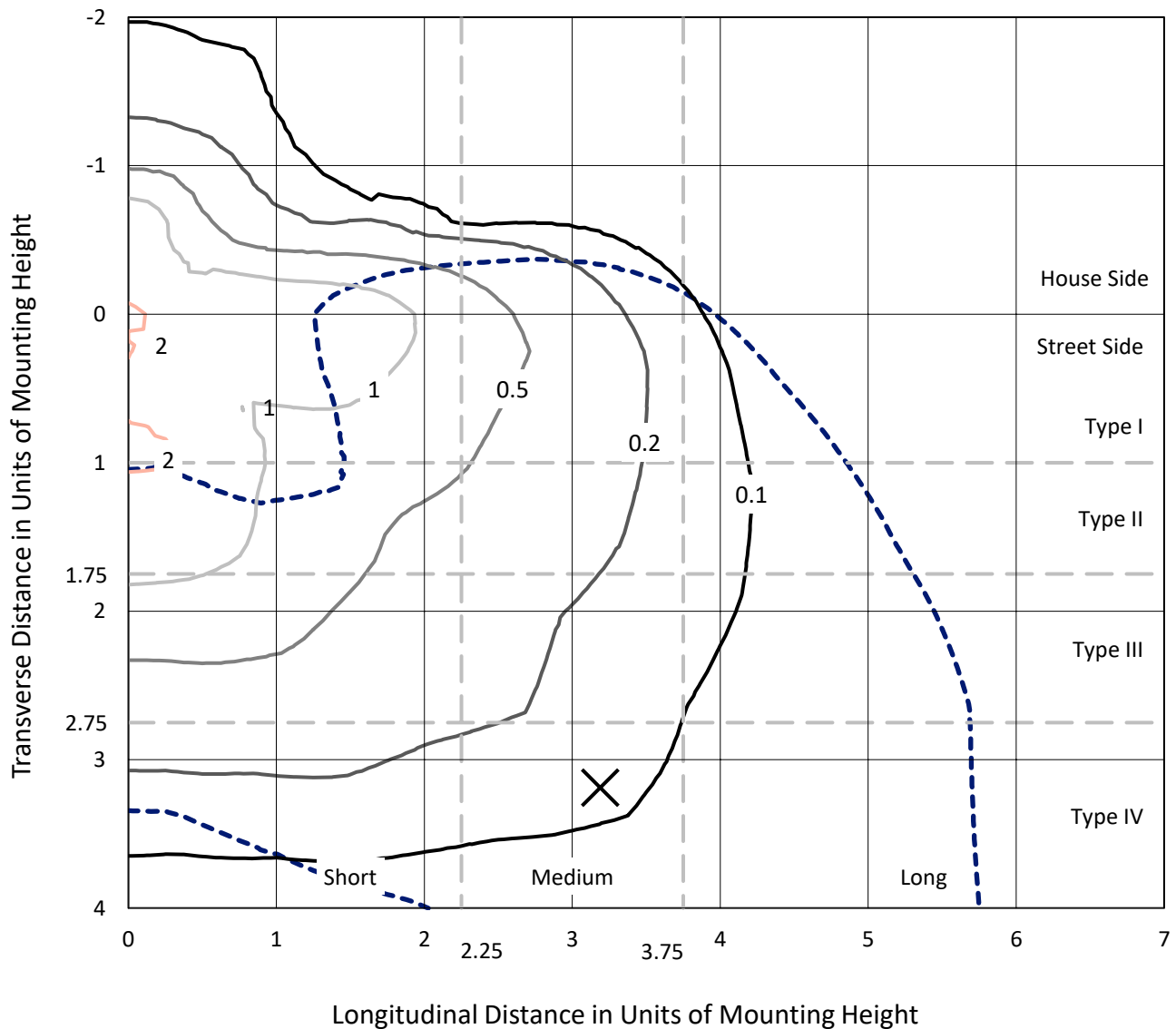


REPORT NUMBER: P559996

CATALOG NUMBER: SDL-PA1-20-727-U-T4W-A

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

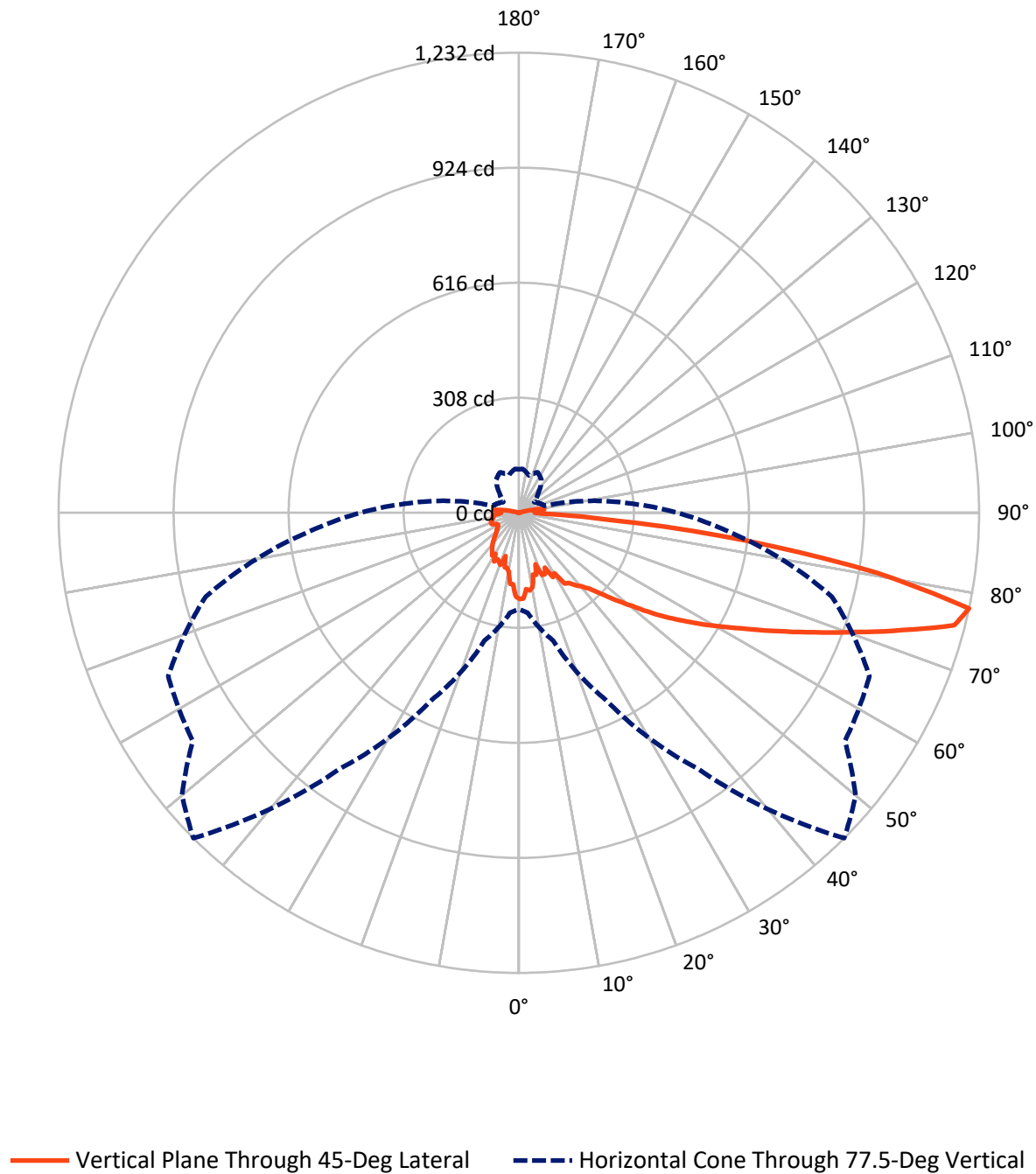


Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Medium - N/A

REPORT NUMBER: P559996

CATALOG NUMBER: SDL-PA1-20-727-U-T4W-A

Luminous Intensity Polar Plot



REPORT NUMBER: P559996

CATALOG NUMBER: SDL-PA1-20-727-U-T4W-A

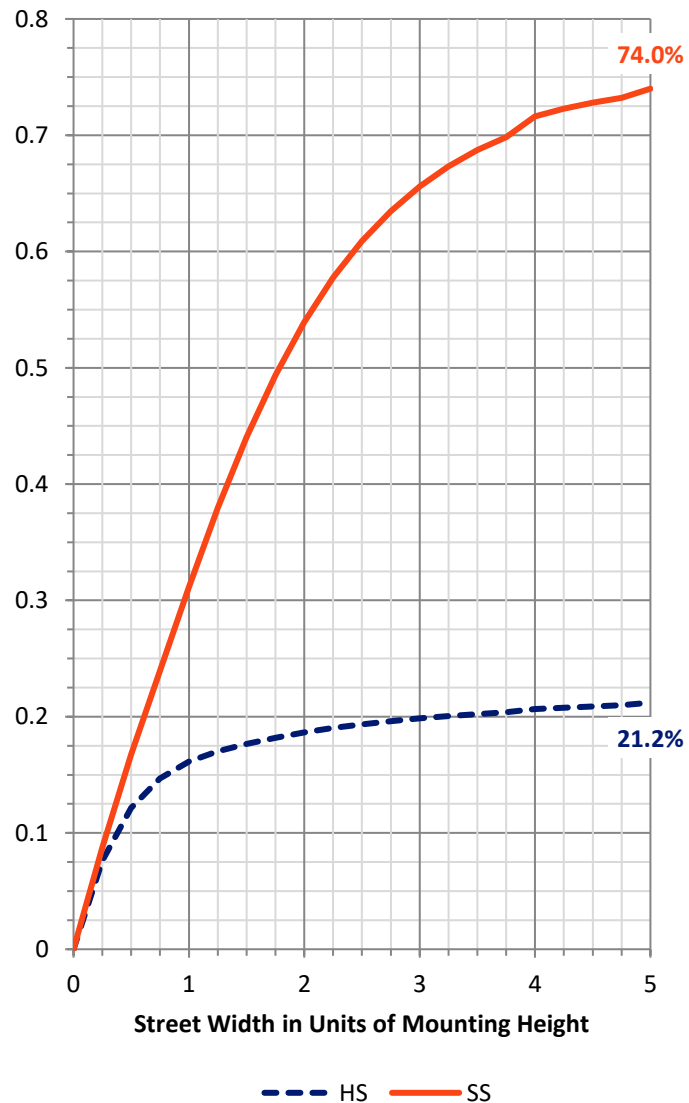
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	475.8	35.5	511.3
	% Fixture	22.4	1.7	24.1
Street Side	Lumens	1585.9	28.7	1614.6
	% Fixture	74.6	1.3	75.9
Total	Lumens	2061.7	64.2	2125.9
	% Fixture	97.0	3.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.2	0.9
10°-20°	47.5	2.2
20°-30°	82.2	3.9
30°-40°	145.7	6.9
40°-50°	225.8	10.6
50°-60°	363.5	17.1
60°-70°	534.6	25.1
70°-80°	514.7	24.2
80°-90°	128.4	6.0
90°-100°	47.9	2.3
100°-110°	10.6	0.5
110°-120°	2.3	0.1
120°-130°	1.9	0.1
130°-140°	0.8	0.0
140°-150°	0.3	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2061.7	97.0
0°-180°	2125.9	100.0

Coefficient of Utilization



REPORT NUMBER: P559996

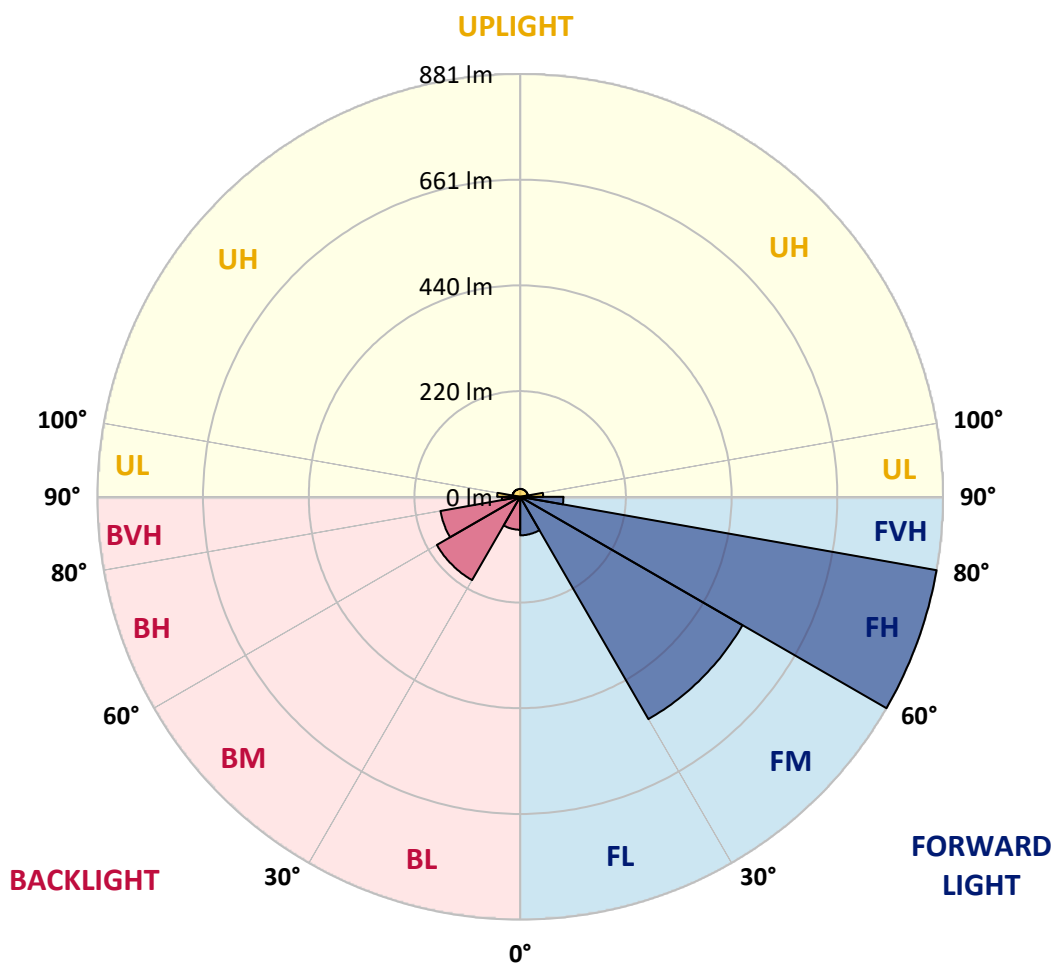
CATALOG NUMBER: SDL-PA1-20-727-U-T4W-A

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	80.2	3.8			
FM	(30°-60°)	534.7	25.2			
FH	(60°-80°)	880.8	41.4			G1/1800
FVH	(80°-90°)	90.2	4.2			G1/100
BL	(0°-30°)	68.7	3.2	B0/110		
BM	(30°-60°)	200.3	9.4	B0/220		
BH	(60°-80°)	168.6	7.9	B1/500		G1/500
BVH	(80°-90°)	38.2	1.8			G1/100
UL	(90°-100°)	47.9	2.3		U2/50	
UH	(100°-180°)	16.3	0.8		U2/50	

BUG Rating: B1-U2-G1

Type IV Medium



REPORT NUMBER: P559996

CATALOG NUMBER: SDL-PA1-20-727-U-T4W-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	230.8	230.8	230.8	230.8	230.8	230.8	230.8	230.8	230.8	230.8	230.8
2.5°	209.9	230.0	226.6	229.1	229.1	230.0	230.8	230.8	231.6	230.8	230.8
5°	214.1	213.2	211.6	209.9	208.2	205.7	205.7	205.7	225.8	227.4	225.8
7.5°	199.9	217.4	215.7	212.4	212.4	209.9	206.5	203.2	197.3	195.7	198.2
10°	225.8	224.9	222.4	217.4	199.0	202.4	181.5	163.9	157.2	161.4	172.3
12.5°	200.7	214.9	220.8	220.8	197.3	169.7	151.4	161.4	155.5	138.8	151.4
15°	236.6	235.0	228.3	217.4	173.1	172.3	162.2	142.2	144.7	157.2	168.9
17.5°	202.4	202.4	226.6	207.4	178.1	144.7	143.8	159.7	146.3	139.6	146.3
20°	244.2	243.3	235.8	172.3	179.8	177.3	146.3	163.1	139.6	160.5	175.6
22.5°	207.4	205.7	217.4	206.5	171.4	178.9	137.1	154.7	166.4	147.2	136.3
25°	244.2	245.8	242.5	184.0	194.8	162.2	165.6	176.4	153.0	186.5	194.0
27.5°	214.9	214.9	205.7	205.7	180.6	194.8	155.5	165.6	182.3	201.5	236.6
30°	263.4	264.2	258.4	198.2	199.9	187.3	180.6	192.3	219.1	261.7	277.6
32.5°	321.9	321.9	276.8	236.6	200.7	225.8	190.7	209.9	248.3	270.1	291.0
35°	358.7	354.5	334.5	265.9	216.6	230.8	215.7	223.3	257.5	289.3	304.4
37.5°	411.4	409.7	389.7	291.8	232.5	245.8	224.1	232.5	274.3	303.5	321.1
40°	484.2	475.8	458.2	337.0	251.7	259.2	234.1	244.2	294.3	321.9	342.8
42.5°	541.9	543.5	531.0	390.5	283.5	278.5	251.7	259.2	316.1	350.4	373.8
45°	595.4	593.7	596.2	454.9	322.8	309.4	282.6	283.5	343.7	385.5	417.3
47.5°	632.2	631.3	637.2	515.1	372.9	348.7	316.9	313.6	375.5	445.7	476.6
50°	676.5	674.0	670.6	579.5	429.8	391.3	362.1	350.4	416.4	513.4	551.9
52.5°	730.8	725.0	714.1	629.7	492.5	445.7	413.1	397.2	471.6	589.5	638.9
55°	782.7	774.3	765.1	685.7	550.2	500.0	464.9	455.7	543.5	668.1	731.7
57.5°	833.7	829.5	822.0	760.1	623.8	556.9	517.6	515.9	627.1	744.2	831.2
60°	881.3	874.7	884.7	840.4	692.4	617.1	575.3	587.8	719.1	820.3	941.6
62.5°	910.6	908.1	929.8	914.0	755.9	684.0	641.4	663.1	807.8	894.7	1039.4
65°	867.1	873.8	960.0	960.0	829.5	763.4	721.6	735.0	891.4	970.0	1128.9
67.5°	787.7	796.9	914.0	985.9	895.6	852.9	809.4	817.0	965.8	1031.0	1201.6
70°	720.0	726.7	835.4	987.5	937.4	956.6	893.9	887.2	1023.5	1082.0	1228.4
72.5°	660.6	669.8	759.3	977.5	978.3	1074.5	994.2	954.1	1076.2	1101.3	1143.1
75°	523.5	519.3	620.5	859.6	991.7	1203.3	1112.1	1028.5	1102.1	1035.2	896.4
77.5°	257.5	268.4	353.7	553.6	837.0	1231.7	1176.5	1065.3	1035.2	867.1	559.4
80°	76.1	78.6	98.7	198.2	480.8	970.0	971.7	881.3	778.5	506.7	252.5
82.5°	42.6	43.5	56.9	86.1	197.3	614.6	639.7	529.3	344.5	187.3	126.3
85°	22.6	23.4	29.3	45.2	100.3	245.0	260.1	202.4	166.4	122.1	92.8
87.5°	10.9	10.9	10.0	15.1	36.8	59.4	66.1	75.3	66.9	62.7	76.9
90°	9.2	9.2	7.5	8.4	20.1	42.6	51.8	57.7	52.7	57.7	84.5
92.5°	10.0	10.0	7.5	8.4	21.7	47.7	56.9	64.4	56.0	61.9	93.7
95°	9.2	10.0	6.7	7.5	21.7	58.5	68.6	70.2	57.7	67.7	100.3
97.5°	7.5	7.5	5.0	5.9	19.2	68.6	75.3	72.7	51.0	51.8	80.3
100°	5.9	5.9	3.3	5.0	13.4	55.2	64.4	61.0	33.4	8.4	20.1
102.5°	5.0	5.0	2.5	4.2	5.9	26.8	34.3	33.4	20.1	5.0	4.2
105°	5.0	5.0	2.5	3.3	3.3	7.5	11.7	15.1	8.4	2.5	4.2
107.5°	5.0	5.0	2.5	1.7	1.7	3.3	4.2	4.2	4.2	2.5	5.0
110°	5.9	5.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	5.0

REPORT NUMBER: P559996

CATALOG NUMBER: SDL-PA1-20-727-U-T4W-A

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	5.0	5.0	1.7	1.7	0.8	1.7	1.7	1.7	1.7	2.5	5.0
115°	4.2	4.2	0.8	1.7	0.8	0.8	1.7	0.8	1.7	1.7	4.2
117.5°	4.2	3.3	0.8	0.8	0.8	0.8	0.8	0.8	1.7	2.5	5.0
120°	4.2	4.2	1.7	0.8	0.8	0.8	0.8	0.8	1.7	3.3	5.9
122.5°	4.2	4.2	1.7	0.8	0.0	0.8	0.8	0.8	1.7	3.3	6.7
125°	5.0	4.2	1.7	0.8	0.0	0.0	0.8	0.8	0.8	3.3	5.9
127.5°	4.2	3.3	1.7	0.8	0.0	0.0	0.8	0.8	0.8	2.5	5.0
130°	4.2	3.3	1.7	0.0	0.0	0.0	0.8	0.8	0.8	2.5	4.2
132.5°	3.3	2.5	1.7	0.0	0.0	0.0	0.8	0.8	0.8	1.7	3.3
135°	2.5	2.5	0.8	0.0	0.8	0.0	0.8	0.8	0.8	0.8	2.5
137.5°	1.7	1.7	0.8	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
140°	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
142.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
145°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
147.5°	0.8	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
150°	2.5	2.5	2.5	1.7	0.8	0.8	0.8	1.7	0.8	0.8	0.8
152.5°	2.5	2.5	2.5	1.7	0.0	0.0	0.8	0.8	1.7	0.8	0.8
155°	1.7	1.7	1.7	0.0	0.0	0.0	0.8	0.8	0.8	1.7	1.7
157.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
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: P559996

CATALOG NUMBER: SDL-PA1-20-727-U-T4W-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	230.8	230.8	230.8	230.8	230.8	230.8	230.8	230.8	230.8	230.8	230.8
2.5°	230.0	229.1	228.3	227.4	225.8	224.1	219.9	202.4	202.4	203.2	203.2
5°	225.8	224.9	222.4	206.5	197.3	192.3	194.0	194.0	194.0	194.8	196.5
7.5°	197.3	196.5	184.8	184.0	187.3	191.5	194.0	189.8	181.5	181.5	181.5
10°	172.3	171.4	150.5	146.3	150.5	160.5	186.5	191.5	194.8	195.7	197.3
12.5°	150.5	148.0	129.6	143.0	133.8	150.5	173.9	193.2	175.6	172.3	172.3
15°	167.2	166.4	144.7	125.4	126.3	150.5	138.0	181.5	191.5	193.2	194.0
17.5°	146.3	144.7	133.0	132.1	139.6	121.2	153.0	173.1	164.7	167.2	167.2
20°	174.8	173.9	152.2	126.3	124.6	148.0	135.5	157.2	187.3	193.2	194.0
22.5°	135.5	135.5	139.6	148.0	134.6	141.3	144.7	166.4	160.5	163.9	173.9
25°	192.3	190.7	168.9	133.0	144.7	136.3	151.4	158.0	185.6	192.3	194.0
27.5°	233.3	229.1	181.5	149.7	130.4	146.3	145.5	153.0	157.2	183.1	186.5
30°	275.1	270.9	233.3	168.1	135.5	126.3	138.8	163.9	189.0	193.2	196.5
32.5°	290.2	286.8	238.3	178.1	136.3	134.6	138.0	163.9	207.4	224.1	227.4
35°	306.0	301.9	243.3	173.9	133.0	125.4	130.4	168.9	206.5	217.4	219.9
37.5°	325.3	317.8	249.2	165.6	123.8	118.7	124.6	153.9	196.5	207.4	209.0
40°	349.5	342.0	256.7	156.4	114.6	110.4	113.7	143.0	172.3	181.5	185.6
42.5°	386.3	372.1	260.1	148.8	106.2	102.0	105.4	128.8	151.4	157.2	159.7
45°	434.0	408.9	265.1	138.8	98.7	92.8	97.8	117.9	128.8	128.8	128.8
47.5°	492.5	452.4	267.6	130.4	89.5	84.5	89.5	107.0	112.9	109.5	108.7
50°	564.4	507.6	280.1	120.4	81.9	77.8	86.1	94.5	97.0	98.7	98.7
52.5°	648.9	571.1	287.7	110.4	76.9	74.4	82.8	88.6	89.5	91.1	91.1
55°	740.9	640.5	291.8	101.2	73.6	70.2	79.4	85.3	85.3	87.0	87.0
57.5°	836.2	720.8	302.7	94.5	70.2	66.9	76.1	86.1	82.8	86.1	87.0
60°	936.5	795.2	293.5	87.8	65.2	64.4	76.9	92.0	91.1	95.3	96.2
62.5°	1031.0	854.6	252.5	81.9	61.9	65.2	86.1	103.7	101.2	107.9	107.9
65°	1084.5	874.7	185.6	78.6	59.4	70.2	95.3	115.4	107.0	110.4	108.7
67.5°	1096.3	854.6	133.8	74.4	58.5	78.6	102.0	117.9	106.2	109.5	109.5
70°	1068.7	807.8	107.9	71.1	57.7	79.4	103.7	117.9	107.0	114.6	112.9
72.5°	944.1	687.4	92.0	67.7	57.7	77.8	106.2	118.7	109.5	122.1	119.6
75°	711.6	514.3	81.1	64.4	54.4	75.3	107.9	119.6	106.2	119.6	117.9
77.5°	423.1	293.5	71.9	60.2	50.2	72.7	106.2	119.6	103.7	117.9	116.2
80°	178.9	138.0	61.0	52.7	46.0	69.4	104.5	118.7	99.5	114.6	112.1
82.5°	112.9	93.7	51.8	43.5	45.2	68.6	105.4	117.1	97.8	115.4	107.0
85°	91.1	76.9	44.3	36.8	41.8	70.2	101.2	106.2	84.5	99.5	97.0
87.5°	76.9	64.4	20.1	15.9	30.9	54.4	76.9	79.4	61.0	77.8	74.4
90°	84.5	70.2	19.2	13.4	27.6	47.7	71.1	69.4	58.5	74.4	73.6
92.5°	92.0	74.4	18.4	14.2	30.9	51.8	77.8	70.2	61.9	75.3	74.4
95°	95.3	76.1	17.6	15.1	36.8	56.9	82.8	68.6	65.2	69.4	68.6
97.5°	71.9	55.2	16.7	15.9	38.5	64.4	77.8	57.7	42.6	42.6	41.8
100°	18.4	18.4	15.1	15.1	25.9	46.8	59.4	42.6	24.2	18.4	19.2
102.5°	5.0	5.9	13.4	14.2	14.2	20.9	33.4	27.6	15.9	2.5	2.5
105°	5.0	5.0	9.2	10.9	7.5	6.7	13.4	15.1	11.7	1.7	2.5
107.5°	5.0	5.0	4.2	5.9	2.5	3.3	3.3	4.2	4.2	1.7	1.7
110°	5.9	5.0	2.5	2.5	1.7	1.7	1.7	1.7	1.7	3.3	3.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	5.9	5.0	2.5	1.7	1.7	1.7	1.7	1.7	1.7	4.2	4.2
115°	5.0	4.2	2.5	1.7	1.7	1.7	1.7	0.8	1.7	5.0	5.0
117.5°	5.9	5.0	2.5	1.7	0.8	1.7	1.7	0.8	1.7	5.9	5.9
120°	6.7	5.9	2.5	1.7	0.8	0.8	0.8	0.8	2.5	5.9	5.9
122.5°	6.7	6.7	3.3	0.8	0.8	0.8	0.8	0.8	2.5	5.9	5.9
125°	6.7	5.9	2.5	0.8	0.8	0.8	0.0	0.8	2.5	5.9	6.7
127.5°	5.0	5.0	2.5	0.8	0.8	0.8	0.0	0.8	2.5	5.0	5.9
130°	4.2	4.2	1.7	0.8	0.8	0.8	0.0	0.8	2.5	5.0	5.0
132.5°	3.3	3.3	1.7	0.8	0.8	0.0	0.0	0.0	2.5	4.2	4.2
135°	2.5	2.5	0.8	0.8	0.8	0.0	0.0	0.0	1.7	3.3	3.3
137.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.8	1.7	1.7
140°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.8
142.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.8
145°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.8
147.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.8
150°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.8	1.7	0.8	1.7
152.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.8	1.7	1.7	1.7
155°	1.7	1.7	1.7	0.8	0.8	0.0	0.0	0.0	0.8	1.7	1.7
157.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)