

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: P561320

Luminaire Tested: **SDL-PA1-90-827-U-5WQ-A**

Issue Date: 7/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P561320  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: SDL-PA1-90-827-U-5WQ-A  
Description: Springdale  
(1) 80 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS AND CLEAR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7247.5 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type V - Short  
BUG Rating: B3 - U3 - G3

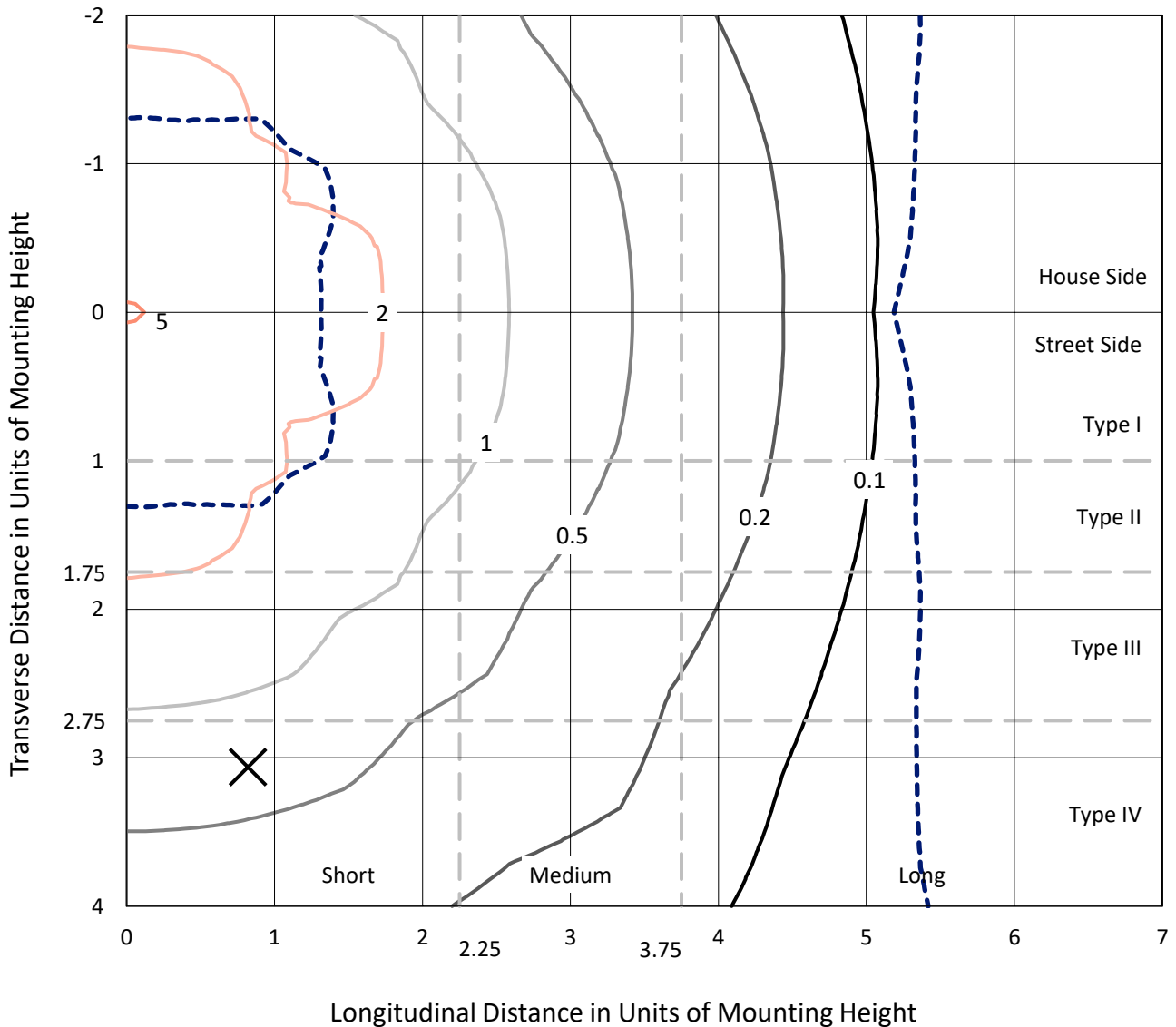
Input Watts (W): 92.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P561320  
 CATALOG NUMBER: SDL-PA1-90-827-U-5WQ-A

### Iso-Footcandle Lines of Horizontal Illumination

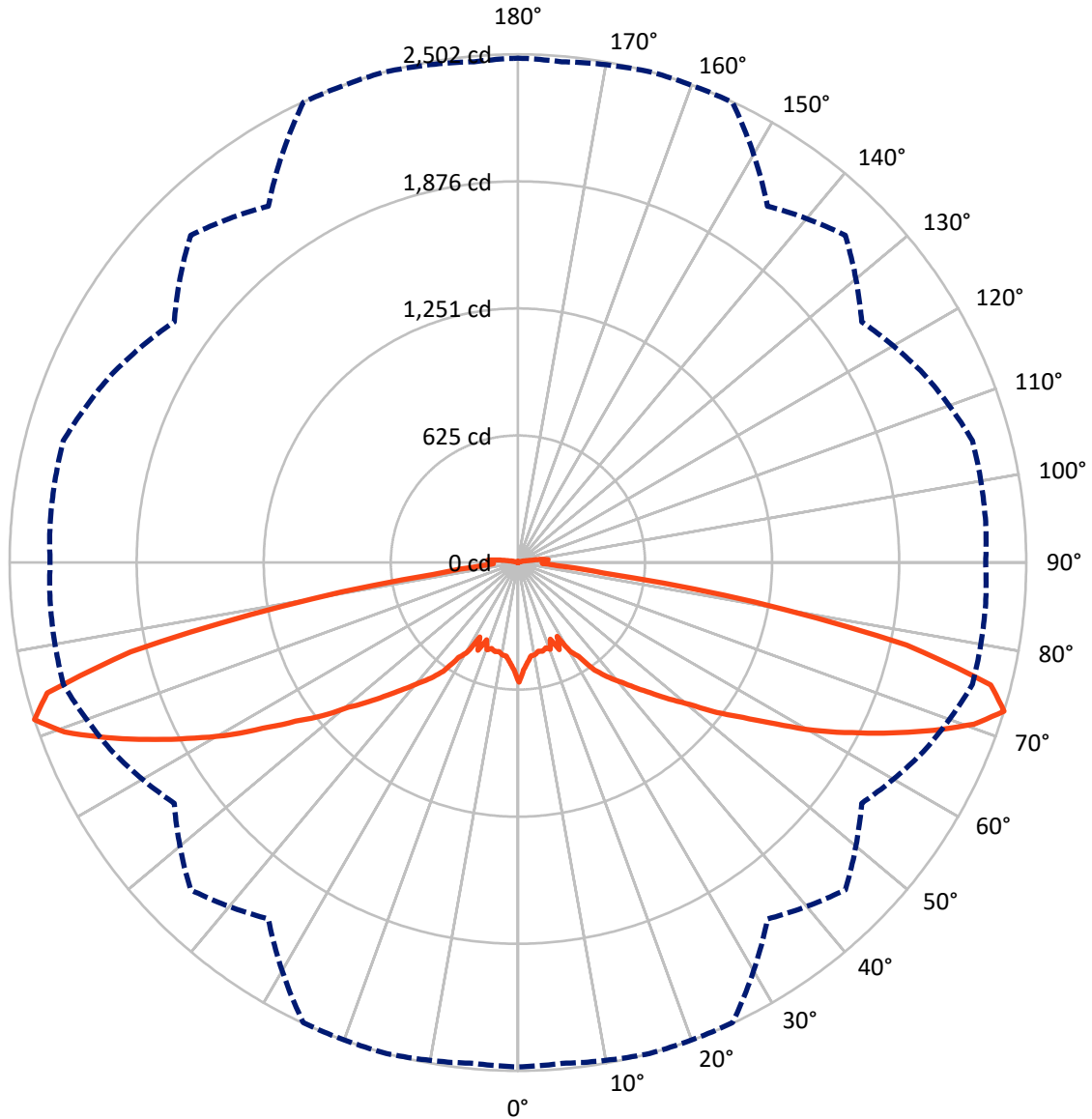
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 fc  
 Type V - Short - N/A

REPORT NUMBER: P561320  
CATALOG NUMBER: SDL-PA1-90-827-U-5WQ-A

### Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P561320  
 CATALOG NUMBER: SDL-PA1-90-827-U-5WQ-A

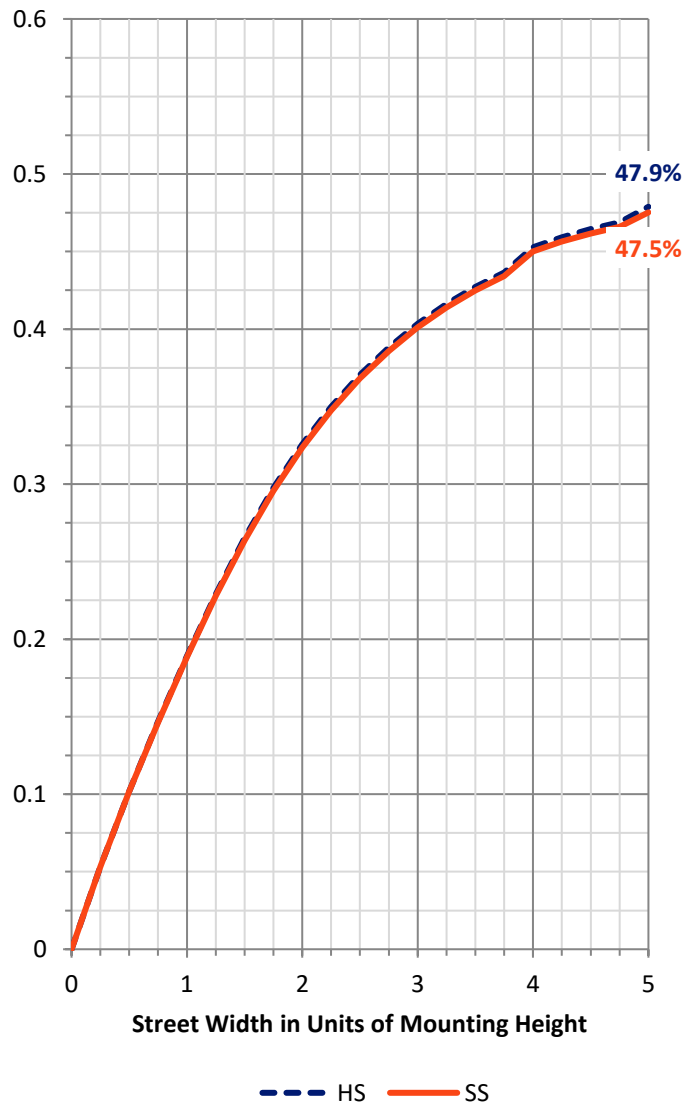
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3513.7	110.0	3623.8
	% Fixture	48.5	1.5	50.0
<b>Street Side</b>	Lumens	3513.7	110.0	3623.8
	% Fixture	48.5	1.5	50.0
<b>Total</b>	Lumens	7027.5	220.0	7247.5
	% Fixture	97.0	3.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.5	0.6
10°-20°	106.9	1.5
20°-30°	187.7	2.6
30°-40°	362.4	5.0
40°-50°	629.9	8.7
50°-60°	1110.1	15.3
60°-70°	1875.4	25.9
70°-80°	2204.6	30.4
80°-90°	503.9	7.0
90°-100°	166.3	2.3
100°-110°	39.2	0.5
110°-120°	6.3	0.1
120°-130°	5.0	0.1
130°-140°	2.1	0.0
140°-150°	0.4	0.0
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7027.5	97.0
0°-180°	7247.5	100.0



REPORT NUMBER: P561320

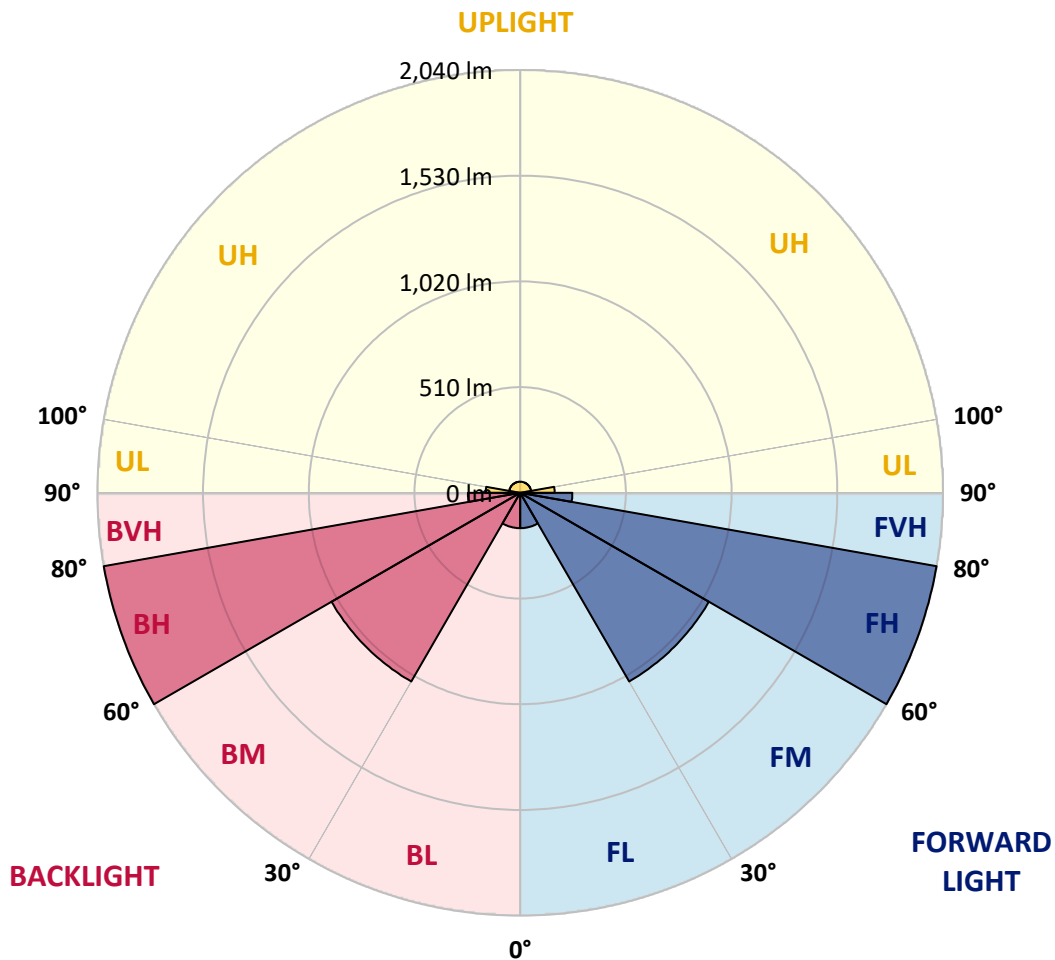
CATALOG NUMBER: SDL-PA1-90-827-U-5WQ-A

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	170.6	2.4			
FM (30°-60°)	1051.2	14.5			
FH (60°-80°)	2040.0	28.1			G2/5000
FVH (80°-90°)	252.0	3.5			G3/500
BL (0°-30°)	170.6	2.4	B1/500		
BM (30°-60°)	1051.2	14.5	B2/2500		
BH (60°-80°)	2040.0	28.1	B3/2500		G2/5000
BVH (80°-90°)	252.0	3.5			G3/500
UL (90°-100°)	166.3	2.3		U3/500	
UH (100°-180°)	53.7	0.7		U3/500	

**BUG Rating: B3-U3-G3**

Type V Short





REPORT NUMBER: P561320

CATALOG NUMBER: SDL-PA1-90-827-U-5WQ-A

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	589.3	589.3	589.3	589.3	589.3	589.3	589.3	589.3	589.3	589.3	589.3
2.5°	521.1	532.0	529.3	548.4	564.7	570.2	581.1	581.1	583.8	583.8	583.8
5°	493.8	493.8	493.8	493.8	493.8	491.1	502.0	551.1	567.4	570.2	567.4
7.5°	428.3	442.0	463.8	472.0	480.1	477.4	472.0	442.0	488.3	493.8	496.5
10°	461.1	461.1	461.1	455.6	433.8	414.7	392.8	371.0	379.2	428.3	428.3
12.5°	409.2	406.5	447.4	452.9	411.9	360.1	343.7	351.9	327.4	373.8	373.8
15°	461.1	461.1	452.9	425.6	341.0	360.1	305.5	308.3	349.2	403.8	403.8
17.5°	392.8	395.6	442.0	414.7	371.0	289.2	338.3	305.5	313.7	343.7	346.5
20°	469.2	469.2	455.6	354.7	349.2	360.1	311.0	302.8	349.2	403.8	406.5
22.5°	403.8	403.8	409.2	411.9	360.1	354.7	311.0	351.9	330.1	330.1	368.3
25°	488.3	488.3	474.7	376.5	395.6	343.7	360.1	330.1	403.8	444.7	444.7
27.5°	428.3	428.3	411.9	428.3	381.9	409.2	360.1	390.1	433.8	523.8	529.3
30°	521.1	521.1	507.4	425.6	422.9	398.3	401.0	452.9	559.3	616.6	616.6
32.5°	632.9	635.7	551.1	488.3	428.3	458.3	436.5	515.6	583.8	643.8	646.6
35°	679.3	679.3	649.3	567.4	466.5	482.9	474.7	545.6	627.5	676.6	676.6
37.5°	733.9	733.9	712.0	608.4	512.9	534.7	496.5	586.5	676.6	720.2	714.8
40°	791.2	783.0	769.3	652.0	562.0	567.4	534.7	630.2	723.0	766.6	766.6
42.5°	862.1	862.1	837.5	725.7	611.1	619.3	570.2	684.8	791.2	843.0	845.7
45°	941.2	938.5	913.9	807.5	671.1	684.8	630.2	758.4	875.7	924.8	930.3
47.5°	1034.0	1034.0	1003.9	894.8	747.5	761.1	698.4	832.1	979.4	1023.0	1028.5
50°	1132.2	1124.0	1096.7	995.8	848.4	843.0	774.8	913.9	1088.5	1118.5	1129.4
52.5°	1246.7	1235.8	1224.9	1110.3	960.3	963.0	873.0	1001.2	1214.0	1230.4	1235.8
55°	1361.3	1353.1	1345.0	1252.2	1083.1	1099.4	1003.9	1121.3	1339.5	1350.4	1361.3
57.5°	1489.6	1497.7	1497.7	1410.4	1222.2	1263.1	1145.8	1271.3	1489.6	1481.4	1478.6
60°	1675.1	1658.7	1677.8	1598.7	1413.2	1445.9	1320.4	1454.1	1634.1	1601.4	1593.2
62.5°	1825.1	1822.4	1844.2	1808.7	1590.5	1672.3	1492.3	1628.7	1770.5	1743.3	1746.0
65°	1997.0	1994.3	2021.5	2005.2	1776.0	1879.7	1680.5	1825.1	1934.2	1904.2	1898.8
67.5°	2163.4	2171.6	2204.3	2226.1	1926.1	2059.7	1860.6	2010.6	2095.2	2046.1	2051.5
70°	2368.0	2354.4	2381.6	2384.4	2048.8	2190.7	1999.7	2127.9	2231.6	2198.9	2193.4
72.5°	2482.6	2474.4	2501.7	2499.0	2141.6	2278.0	2065.2	2201.6	2316.2	2310.7	2302.5
75°	2357.1	2368.0	2403.5	2452.6	2147.0	2327.1	2057.0	2152.5	2242.5	2212.5	2204.3
77.5°	1849.7	1871.5	1956.1	2114.3	2002.4	2308.0	1912.4	1887.9	1907.0	1871.5	1849.7
80°	982.1	1001.2	1181.3	1451.4	1606.9	2005.2	1606.9	1372.2	1170.4	1025.8	903.0
82.5°	313.7	338.3	422.9	668.4	1014.9	1396.8	930.3	526.5	362.8	311.0	291.9
85°	171.9	177.3	191.0	259.2	357.4	564.7	379.2	223.7	196.4	188.2	185.5
87.5°	144.6	147.3	120.0	147.3	171.9	177.3	171.9	122.8	125.5	139.1	136.4
90°	152.8	152.8	122.8	144.6	171.9	174.6	171.9	128.2	125.5	147.3	144.6
92.5°	166.4	166.4	139.1	155.5	191.0	185.5	185.5	133.7	139.1	158.2	158.2
95°	177.3	174.6	150.0	158.2	201.9	207.3	201.9	141.9	150.0	171.9	171.9
97.5°	130.9	125.5	109.1	141.9	191.0	218.2	201.9	133.7	117.3	130.9	128.2
100°	62.7	60.0	57.3	106.4	150.0	166.4	144.6	95.5	51.8	32.7	32.7
102.5°	13.6	13.6	38.2	73.7	87.3	87.3	79.1	65.5	32.7	10.9	10.9
105°	10.9	13.6	27.3	40.9	43.6	24.6	38.2	40.9	19.1	10.9	10.9
107.5°	10.9	13.6	10.9	13.6	13.6	10.9	13.6	16.4	8.2	10.9	10.9
110°	13.6	13.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5	10.9	13.6



REPORT NUMBER: P561320  
 CATALOG NUMBER: SDL-PA1-90-827-U-5WQ-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	13.6	13.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5	10.9	13.6
115°	10.9	10.9	5.5	5.5	5.5	5.5	2.7	5.5	5.5	10.9	10.9
117.5°	10.9	10.9	5.5	2.7	2.7	2.7	2.7	5.5	5.5	10.9	13.6
120°	13.6	10.9	5.5	2.7	2.7	2.7	2.7	2.7	8.2	13.6	13.6
122.5°	13.6	13.6	5.5	2.7	2.7	2.7	2.7	2.7	8.2	13.6	16.4
125°	13.6	10.9	5.5	2.7	2.7	2.7	2.7	2.7	5.5	13.6	13.6
127.5°	10.9	10.9	5.5	2.7	2.7	2.7	2.7	2.7	5.5	10.9	13.6
130°	10.9	10.9	5.5	2.7	2.7	2.7	2.7	2.7	5.5	10.9	10.9
132.5°	8.2	8.2	5.5	2.7	2.7	0.0	2.7	2.7	5.5	8.2	8.2
135°	5.5	5.5	2.7	0.0	2.7	0.0	2.7	0.0	2.7	5.5	8.2
137.5°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
140°	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	2.7	0.0	2.7	2.7	2.7	0.0	0.0	0.0	0.0	2.7
150°	2.7	2.7	5.5	2.7	2.7	0.0	2.7	2.7	0.0	0.0	2.7
152.5°	5.5	5.5	5.5	2.7	0.0	0.0	2.7	2.7	2.7	2.7	2.7
155°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	2.7	2.7	5.5	5.5
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
160°	0.0	0.0	0.0	0.0	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)