

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: P560987

Luminaire Tested: **SDL-PA1-70-827-U-T4W-HSS-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P560987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-9)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-70-827-U-T4W-HSS-A
Description: Springdale
(1) 80 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS, HOUSE SIDE SHEILD AND CLEAR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4237.6 lumens
Efficiency: N/A
Efficacy: 58.7 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 - U3 - G2

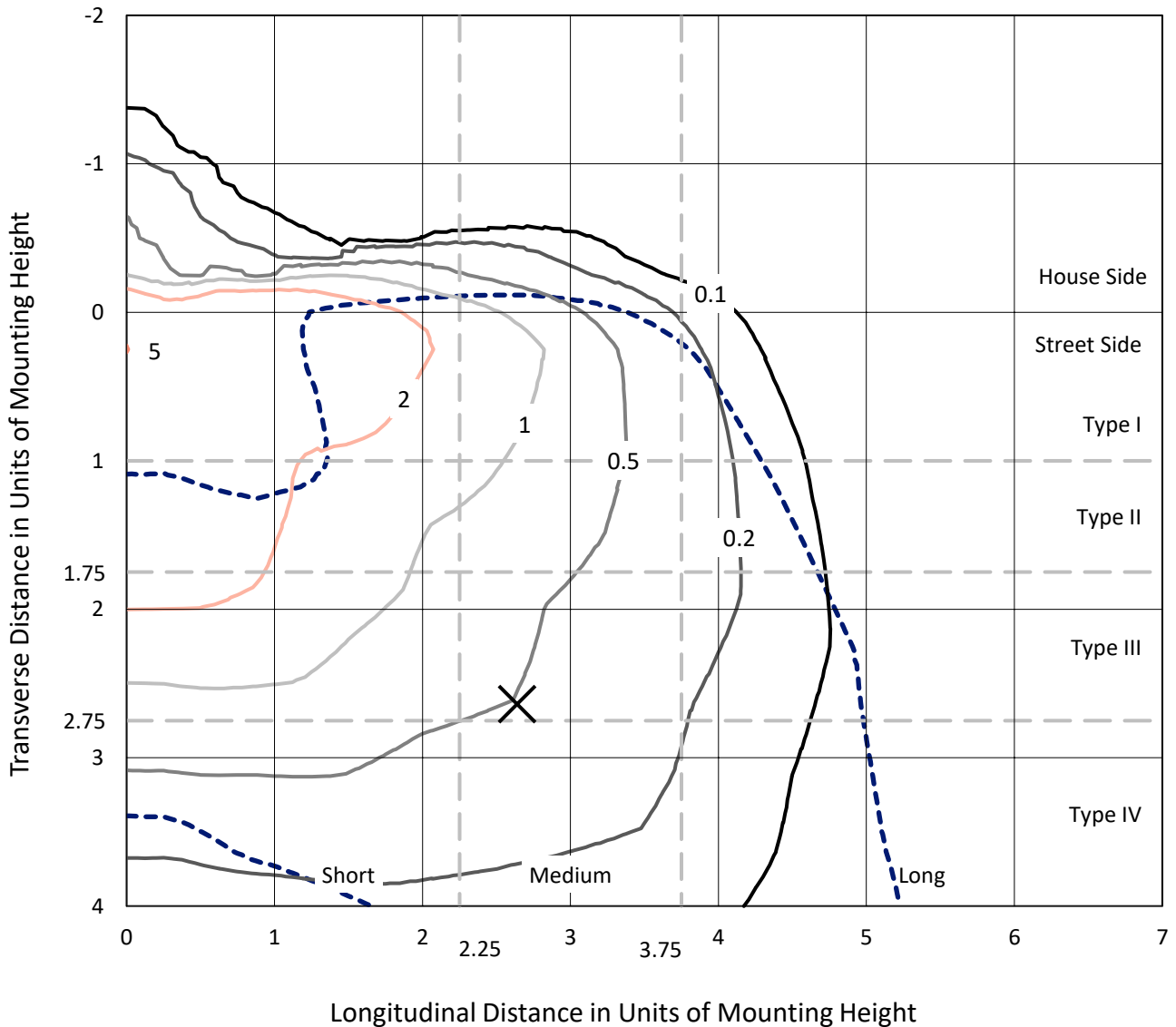
Input Watts (W): 72.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P560987
 CATALOG NUMBER: SDL-PA1-70-827-U-T4W-HSS-A

Iso-Footcandle Lines of Horizontal Illumination

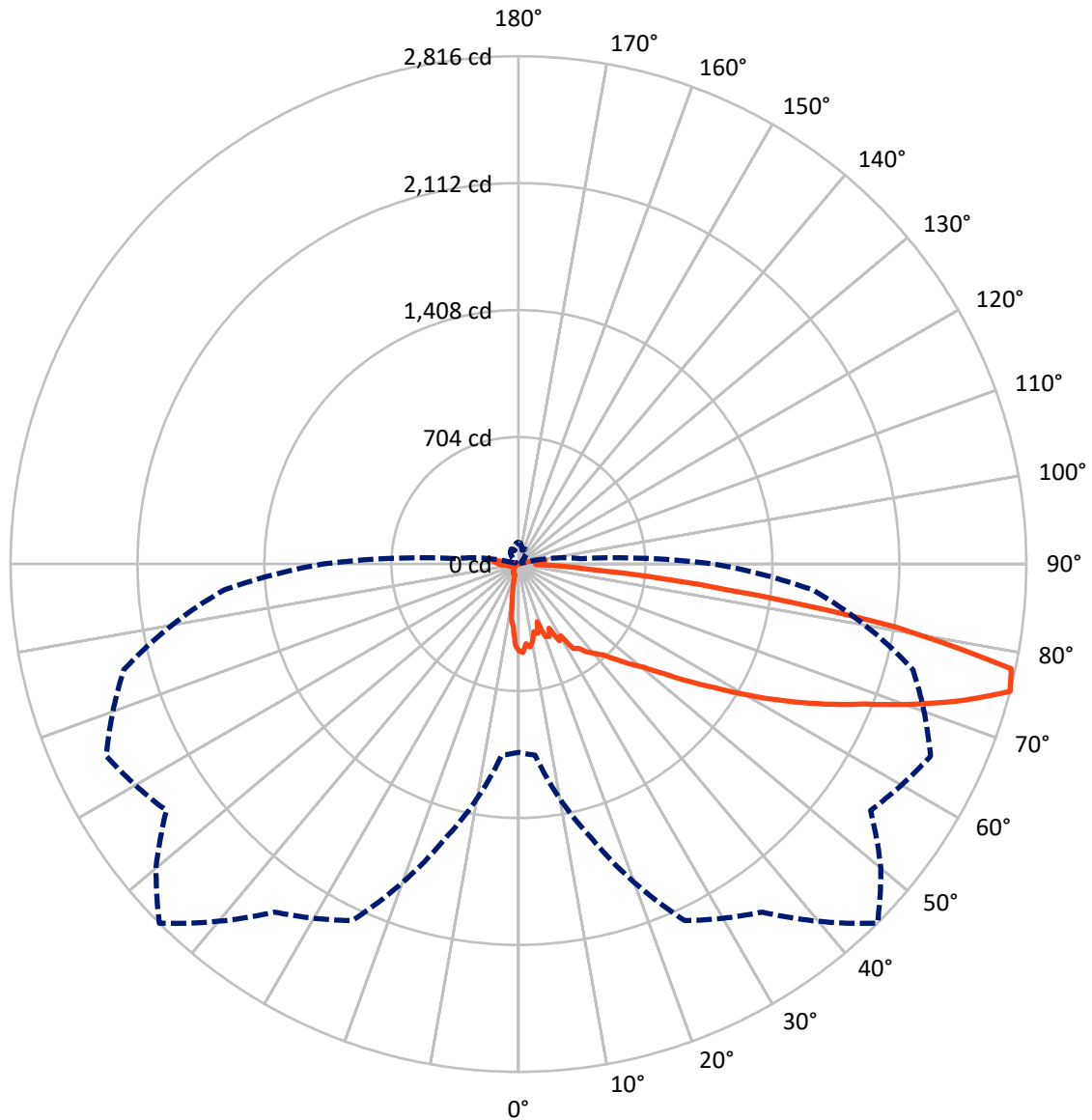
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Medium - N/A

REPORT NUMBER: P560987
CATALOG NUMBER: SDL-PA1-70-827-U-T4W-HSS-A

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P560987

CATALOG NUMBER: SDL-PA1-70-827-U-T4W-HSS-A

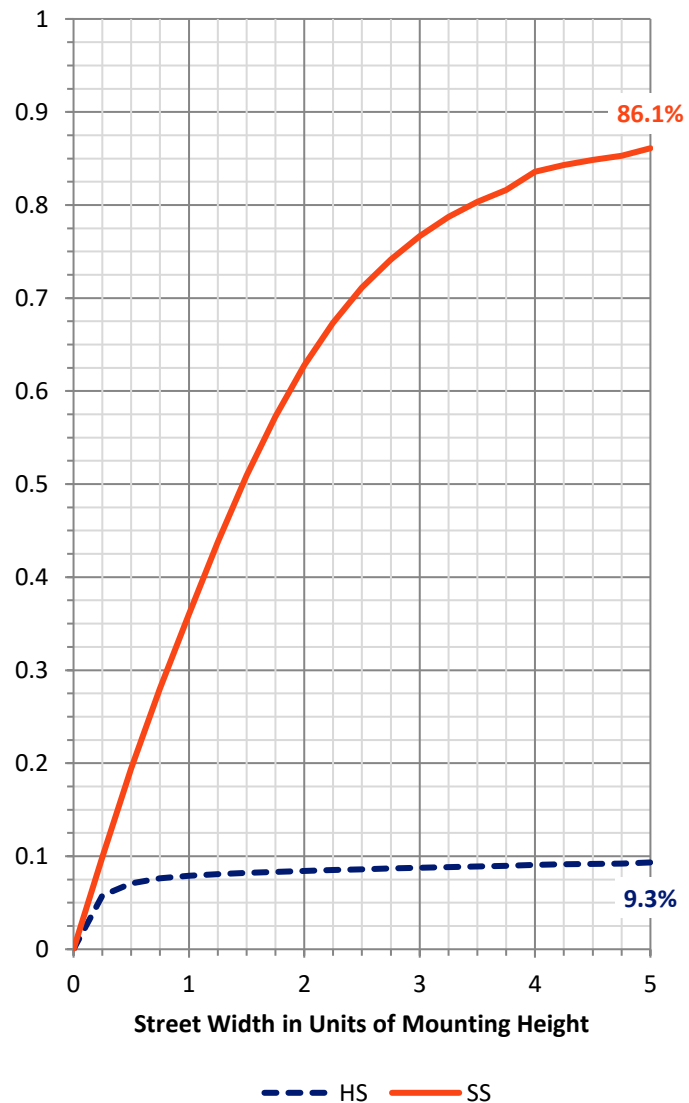
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	434.8	76.1	510.9
	% Fixture	10.3	1.8	12.1
Street Side	Lumens	3667.9	58.8	3726.7
	% Fixture	86.6	1.4	87.9
Total	Lumens	4102.7	134.9	4237.6
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	0.9
10°-20°	81.1	1.9
20°-30°	136.0	3.2
30°-40°	252.2	6.0
40°-50°	425.1	10.0
50°-60°	762.9	18.0
60°-70°	1145.6	27.0
70°-80°	1048.1	24.7
80°-90°	214.3	5.1
90°-100°	102.5	2.4
100°-110°	21.9	0.5
110°-120°	4.2	0.1
120°-130°	3.3	0.1
130°-140°	1.5	0.0
140°-150°	0.8	0.0
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4102.7	96.8
0°-180°	4237.6	100.0

Coefficient of Utilization



REPORT NUMBER: P560987

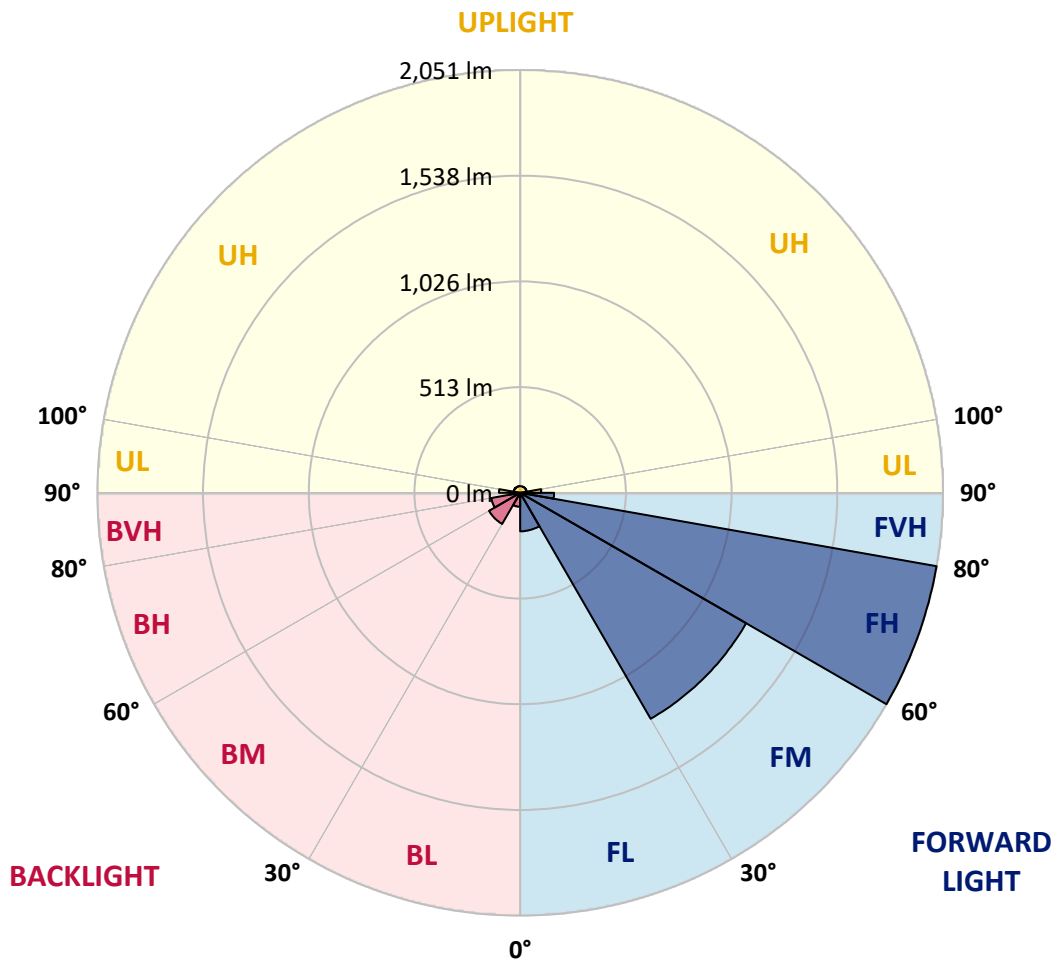
CATALOG NUMBER: SDL-PA1-70-827-U-T4W-HSS-A

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	186.7	4.4			
FM (30°-60°)	1265.8	29.9			
FH (60°-80°)	2051.2	48.4			G2/5000
FVH (80°-90°)	164.3	3.9			G2/225
BL (0°-30°)	67.9	1.6	B0/110		
BM (30°-60°)	174.5	4.1	B0/220		
BH (60°-80°)	142.5	3.4	B1/500		G1/500
BVH (80°-90°)	50.0	1.2			G1/100
UL (90°-100°)	102.5	2.4		U3/500	
UH (100°-180°)	32.4	0.8		U2/50	

BUG Rating: B1-U3-G2

Type IV Medium





REPORT NUMBER: P560987

CATALOG NUMBER: SDL-PA1-70-827-U-T4W-HSS-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	482.8	482.8	482.8	482.8	482.8	482.8	482.8	482.8	482.8	482.8	482.8
2.5°	469.2	491.9	485.1	496.4	494.2	491.9	491.9	494.2	491.9	487.4	482.8
5°	478.3	471.5	467.0	464.7	455.6	444.3	439.8	435.2	482.8	482.8	473.8
7.5°	491.9	491.9	482.8	476.0	476.0	464.7	453.4	444.3	421.6	414.8	414.8
10°	523.6	519.1	512.3	498.7	430.7	433.0	408.0	358.2	335.5	344.6	358.2
12.5°	530.4	528.2	519.1	516.8	453.4	385.4	319.6	358.2	342.3	285.6	317.4
15°	569.0	564.5	546.3	514.6	387.6	399.0	371.8	319.6	306.0	349.1	374.0
17.5°	485.1	485.1	544.0	498.7	421.6	335.5	333.2	371.8	335.5	312.8	310.6
20°	596.2	596.2	571.3	408.0	433.0	428.4	344.6	389.9	328.7	371.8	396.7
22.5°	496.4	494.2	512.3	505.5	414.8	437.5	353.6	355.9	392.2	335.5	287.9
25°	605.3	605.3	591.7	439.8	471.5	394.4	403.5	426.2	349.1	423.9	428.4
27.5°	521.4	519.1	494.2	503.2	439.8	482.8	367.2	401.2	428.4	457.9	503.2
30°	637.0	641.5	630.2	478.3	489.6	460.2	437.5	464.7	519.1	609.8	639.3
32.5°	786.6	791.1	671.0	575.8	491.9	559.9	469.2	512.3	596.2	639.3	671.0
35°	875.0	841.0	788.9	643.8	530.4	573.5	539.5	546.3	621.1	689.1	711.8
37.5°	949.8	904.5	843.3	664.2	559.9	618.9	562.2	571.3	673.3	734.5	763.9
40°	974.8	947.6	913.5	709.5	596.2	652.9	589.4	609.8	723.1	793.4	838.7
42.5°	1036.0	1038.2	1017.8	773.0	634.7	689.1	634.7	648.3	788.9	875.0	940.8
45°	1199.2	1203.7	1181.0	881.8	682.3	752.6	707.3	714.1	863.7	999.7	1083.6
47.5°	1407.7	1391.9	1369.2	1026.9	754.9	825.1	791.1	784.3	952.1	1162.9	1237.7
50°	1618.5	1589.1	1541.5	1226.4	879.5	899.9	877.3	872.7	1058.6	1330.7	1412.3
52.5°	1838.4	1815.8	1716.0	1414.5	1065.4	1008.8	983.8	1008.8	1196.9	1516.5	1591.3
55°	1954.0	1931.4	1867.9	1616.3	1244.5	1149.3	1106.2	1151.6	1410.0	1691.1	1788.6
57.5°	2049.3	2042.5	2013.0	1827.1	1462.1	1298.9	1255.8	1298.9	1580.0	1854.3	1969.9
60°	2185.3	2158.1	2185.3	2031.1	1673.0	1482.5	1423.6	1468.9	1788.6	1997.1	2169.4
62.5°	2282.7	2275.9	2330.3	2260.1	1849.8	1675.2	1589.1	1632.1	1972.2	2149.0	2366.6
65°	2178.5	2212.5	2430.1	2409.7	2049.3	1872.4	1781.8	1768.2	2121.8	2312.2	2577.4
67.5°	1992.6	2015.2	2332.6	2486.8	2223.8	2071.9	1963.1	1899.6	2260.1	2459.6	2745.2
70°	1815.8	1843.0	2133.1	2491.3	2307.7	2328.1	2176.2	2058.3	2398.3	2625.0	2781.5
72.5°	1675.2	1700.2	1960.8	2436.9	2337.1	2584.2	2409.7	2226.1	2532.1	2629.6	2430.1
75°	1045.0	1063.2	1577.7	2180.7	2355.3	2815.5	2622.8	2382.5	2520.8	2264.6	1634.4
77.5°	321.9	328.7	675.5	1439.5	2047.0	2792.8	2586.5	2239.7	2112.7	1437.2	745.8
80°	111.1	113.3	174.5	512.3	1224.1	2119.5	1972.2	1648.0	1262.6	530.4	281.1
82.5°	52.1	56.7	81.6	172.3	498.7	1158.4	1165.2	979.3	530.4	235.8	190.4
85°	18.1	18.1	34.0	74.8	192.7	446.6	423.9	394.4	278.8	213.1	176.8
87.5°	6.8	6.8	11.3	20.4	47.6	95.2	120.1	147.3	147.3	149.6	179.1
90°	6.8	6.8	4.5	4.5	34.0	99.7	120.1	133.7	122.4	136.0	195.0
92.5°	6.8	6.8	4.5	4.5	36.3	115.6	133.7	145.1	129.2	145.1	215.4
95°	6.8	6.8	4.5	4.5	40.8	140.5	156.4	154.1	129.2	151.9	231.2
97.5°	9.1	9.1	4.5	2.3	36.3	149.6	167.7	163.2	111.1	115.6	181.3
100°	9.1	9.1	4.5	2.3	22.7	111.1	133.7	131.5	72.5	18.1	52.1
102.5°	9.1	9.1	4.5	2.3	4.5	52.1	63.5	65.7	43.1	6.8	9.1
105°	11.3	11.3	4.5	2.3	2.3	9.1	20.4	27.2	15.9	4.5	9.1
107.5°	11.3	11.3	4.5	2.3	2.3	4.5	4.5	6.8	6.8	4.5	11.3
110°	11.3	11.3	4.5	4.5	2.3	2.3	2.3	2.3	4.5	4.5	11.3



REPORT NUMBER: P560987

CATALOG NUMBER: SDL-PA1-70-827-U-T4W-HSS-A

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	9.1	9.1	2.3	4.5	2.3	2.3	2.3	2.3	2.3	4.5	11.3
115°	4.5	4.5	2.3	2.3	0.0	2.3	2.3	2.3	2.3	4.5	9.1
117.5°	2.3	2.3	0.0	2.3	0.0	2.3	2.3	2.3	4.5	4.5	11.3
120°	2.3	2.3	0.0	0.0	0.0	0.0	2.3	2.3	2.3	6.8	13.6
122.5°	2.3	2.3	0.0	0.0	0.0	0.0	2.3	2.3	2.3	6.8	13.6
125°	2.3	2.3	0.0	0.0	0.0	0.0	2.3	2.3	2.3	6.8	13.6
127.5°	2.3	2.3	0.0	0.0	0.0	0.0	2.3	2.3	2.3	6.8	11.3
130°	2.3	2.3	0.0	0.0	0.0	0.0	2.3	2.3	2.3	4.5	9.1
132.5°	2.3	2.3	0.0	0.0	0.0	0.0	2.3	2.3	2.3	4.5	6.8
135°	2.3	2.3	0.0	0.0	0.0	0.0	2.3	2.3	2.3	2.3	4.5
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3	2.3	2.3	2.3
140°	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3	2.3	2.3	2.3
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3	2.3	2.3	2.3
145°	0.0	0.0	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3
147.5°	0.0	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
150°	6.8	6.8	4.5	2.3	0.0	0.0	2.3	2.3	2.3	2.3	2.3
152.5°	4.5	4.5	6.8	2.3	0.0	0.0	2.3	2.3	4.5	2.3	2.3
155°	4.5	4.5	2.3	0.0	0.0	0.0	0.0	2.3	2.3	4.5	4.5
157.5°	2.3	2.3	2.3	0.0	0.0	0.0	0.0	2.3	2.3	2.3	2.3
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3	2.3	2.3
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: P560987

CATALOG NUMBER: SDL-PA1-70-827-U-T4W-HSS-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	482.8	482.8	482.8	482.8	482.8	482.8	482.8	482.8	482.8	482.8	482.8
2.5°	478.3	476.0	469.2	464.7	457.9	451.1	417.1	396.7	394.4	392.2	394.4
5°	469.2	462.4	451.1	399.0	374.0	351.4	344.6	340.0	328.7	328.7	331.0
7.5°	405.8	401.2	365.0	349.1	328.7	308.3	290.2	276.6	242.6	231.2	226.7
10°	355.9	346.8	283.4	251.6	231.2	208.6	208.6	190.4	181.3	174.5	172.3
12.5°	308.3	301.5	249.4	229.0	172.3	149.6	138.3	126.9	120.1	115.6	113.3
15°	360.4	349.1	267.5	183.6	126.9	106.5	83.9	81.6	102.0	106.5	108.8
17.5°	287.9	294.7	238.0	160.9	104.3	65.7	72.5	86.1	97.5	97.5	95.2
20°	383.1	367.2	258.4	129.2	74.8	65.7	70.3	63.5	90.7	97.5	97.5
22.5°	278.8	265.2	213.1	120.1	58.9	63.5	58.9	74.8	83.9	74.8	77.1
25°	414.8	394.4	247.1	83.9	61.2	54.4	68.0	58.9	81.6	88.4	90.7
27.5°	514.6	446.6	242.6	79.3	54.4	61.2	56.7	68.0	65.7	70.3	70.3
30°	614.3	575.8	274.3	72.5	54.4	52.1	58.9	58.9	74.8	81.6	81.6
32.5°	657.4	612.1	240.3	70.3	54.4	52.1	52.1	63.5	70.3	83.9	83.9
35°	702.7	641.5	201.8	65.7	52.1	49.9	49.9	63.5	74.8	83.9	86.1
37.5°	763.9	673.3	163.2	63.5	49.9	47.6	43.1	56.7	79.3	88.4	90.7
40°	841.0	718.6	126.9	58.9	45.3	43.1	40.8	56.7	68.0	79.3	79.3
42.5°	961.2	768.5	99.7	56.7	43.1	38.5	38.5	47.6	65.7	74.8	74.8
45°	1083.6	827.4	83.9	54.4	40.8	36.3	36.3	47.6	49.9	63.5	63.5
47.5°	1219.6	886.3	77.1	52.1	40.8	31.7	31.7	43.1	43.1	58.9	61.2
50°	1360.1	936.2	72.5	49.9	36.3	29.5	36.3	29.5	36.3	56.7	61.2
52.5°	1482.5	977.0	68.0	45.3	34.0	27.2	34.0	29.5	36.3	52.1	52.1
55°	1607.2	999.7	65.7	43.1	31.7	22.7	34.0	31.7	34.0	47.6	47.6
57.5°	1718.3	1006.5	63.5	43.1	27.2	20.4	31.7	38.5	29.5	38.5	43.1
60°	1818.0	999.7	56.7	38.5	20.4	20.4	34.0	45.3	40.8	45.3	45.3
62.5°	1911.0	974.8	45.3	31.7	15.9	20.4	43.1	49.9	38.5	47.6	52.1
65°	1990.3	940.8	34.0	24.9	11.3	22.7	45.3	56.7	45.3	54.4	58.9
67.5°	2026.6	895.4	27.2	20.4	11.3	24.9	47.6	63.5	52.1	61.2	65.7
70°	1965.4	802.5	22.7	20.4	9.1	29.5	49.9	68.0	58.9	77.1	79.3
72.5°	1632.1	630.2	20.4	20.4	15.9	36.3	63.5	77.1	72.5	104.3	102.0
75°	1081.3	344.6	20.4	18.1	20.4	43.1	77.1	90.7	79.3	117.9	117.9
77.5°	498.7	151.9	18.1	20.4	22.7	47.6	88.4	108.8	90.7	133.7	131.5
80°	217.6	92.9	18.1	18.1	24.9	52.1	99.7	122.4	99.7	147.3	147.3
82.5°	163.2	83.9	15.9	18.1	34.0	58.9	115.6	136.0	111.1	158.7	156.4
85°	151.9	79.3	18.1	20.4	38.5	74.8	136.0	147.3	115.6	163.2	163.2
87.5°	154.1	77.1	18.1	20.4	52.1	95.2	154.1	158.7	126.9	172.3	172.3
90°	158.7	79.3	20.4	22.7	58.9	104.3	172.3	170.0	142.8	181.3	181.3
92.5°	170.0	79.3	22.7	24.9	63.5	115.6	188.2	174.5	154.1	188.2	183.6
95°	176.8	79.3	24.9	27.2	74.8	126.9	199.5	170.0	163.2	174.5	170.0
97.5°	131.5	58.9	29.5	31.7	77.1	142.8	183.6	145.1	106.5	104.3	106.5
100°	43.1	20.4	31.7	34.0	49.9	99.7	136.0	104.3	56.7	43.1	43.1
102.5°	11.3	11.3	29.5	31.7	27.2	43.1	79.3	68.0	38.5	2.3	4.5
105°	11.3	9.1	18.1	24.9	15.9	11.3	31.7	38.5	29.5	2.3	2.3
107.5°	11.3	9.1	9.1	13.6	4.5	4.5	9.1	9.1	9.1	2.3	2.3
110°	11.3	9.1	4.5	4.5	4.5	4.5	4.5	2.3	2.3	4.5	4.5



REPORT NUMBER: P560987

CATALOG NUMBER: SDL-PA1-70-827-U-T4W-HSS-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	13.6	9.1	4.5	4.5	4.5	2.3	2.3	2.3	2.3	6.8	9.1
115°	11.3	9.1	2.3	4.5	2.3	2.3	2.3	2.3	4.5	9.1	11.3
117.5°	11.3	9.1	2.3	2.3	2.3	2.3	2.3	2.3	4.5	11.3	13.6
120°	13.6	11.3	2.3	2.3	2.3	2.3	2.3	2.3	4.5	13.6	13.6
122.5°	13.6	11.3	2.3	2.3	2.3	2.3	0.0	2.3	6.8	13.6	13.6
125°	13.6	11.3	2.3	2.3	2.3	0.0	0.0	2.3	6.8	13.6	15.9
127.5°	11.3	9.1	2.3	2.3	2.3	0.0	0.0	2.3	4.5	11.3	13.6
130°	9.1	6.8	2.3	2.3	2.3	0.0	0.0	0.0	4.5	11.3	11.3
132.5°	6.8	4.5	2.3	2.3	2.3	0.0	0.0	0.0	4.5	9.1	9.1
135°	4.5	4.5	2.3	2.3	2.3	0.0	0.0	0.0	2.3	6.8	6.8
137.5°	2.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0	2.3	2.3	2.3
140°	2.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	2.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
145°	2.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
155°	4.5	4.5	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	2.3	2.3	2.3	2.3	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)