

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: P560996

Luminaire Tested: **SDL-PA1-70-830-U-T2R-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P560996
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-PA1-70-830-U-T2R-A
Description: Springdale
(1) 80 CRI, 3000K, 930mA 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: 5536.6 lumens
Efficiency: N/A
Efficacy: 76.7 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 - 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

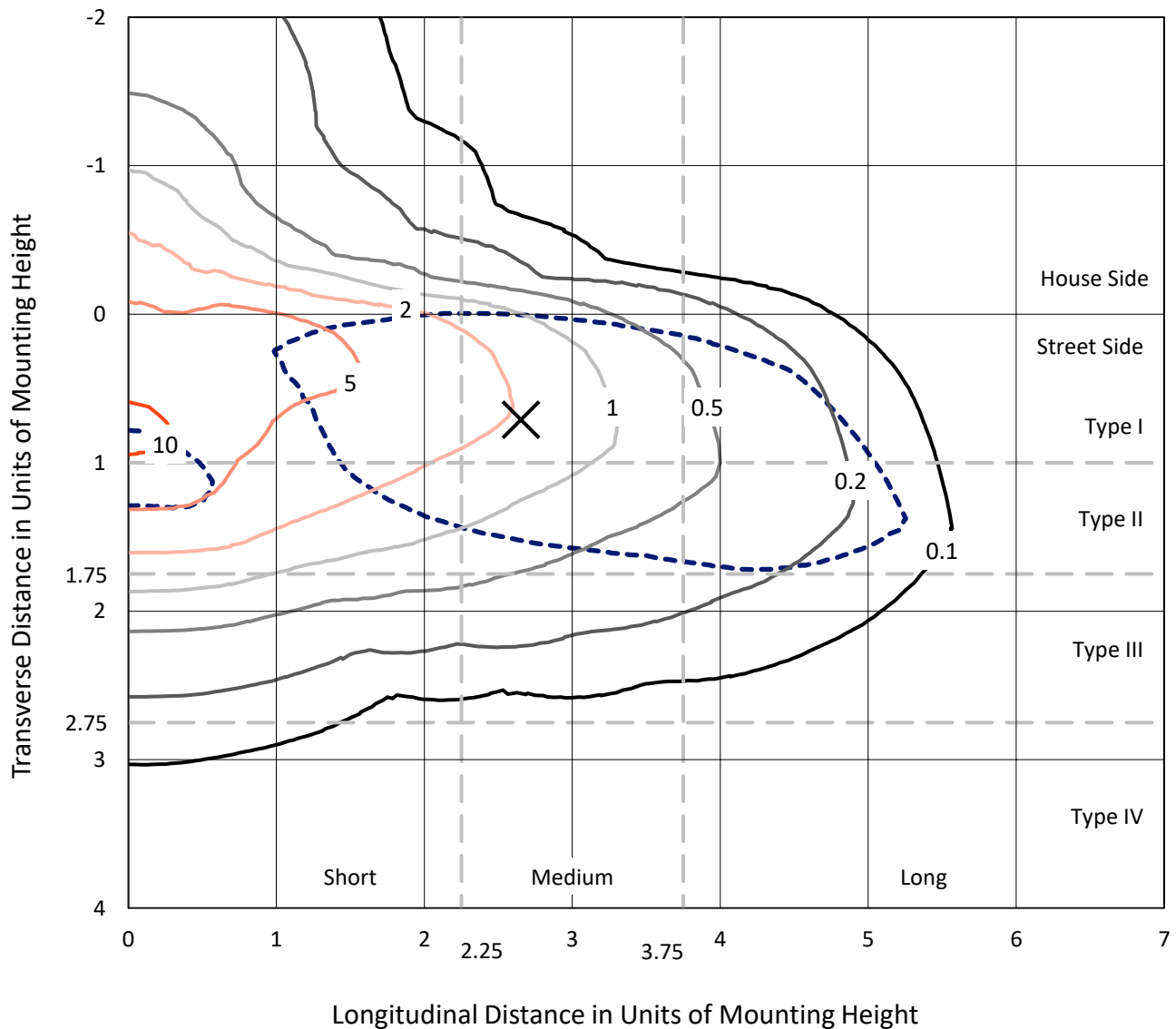


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

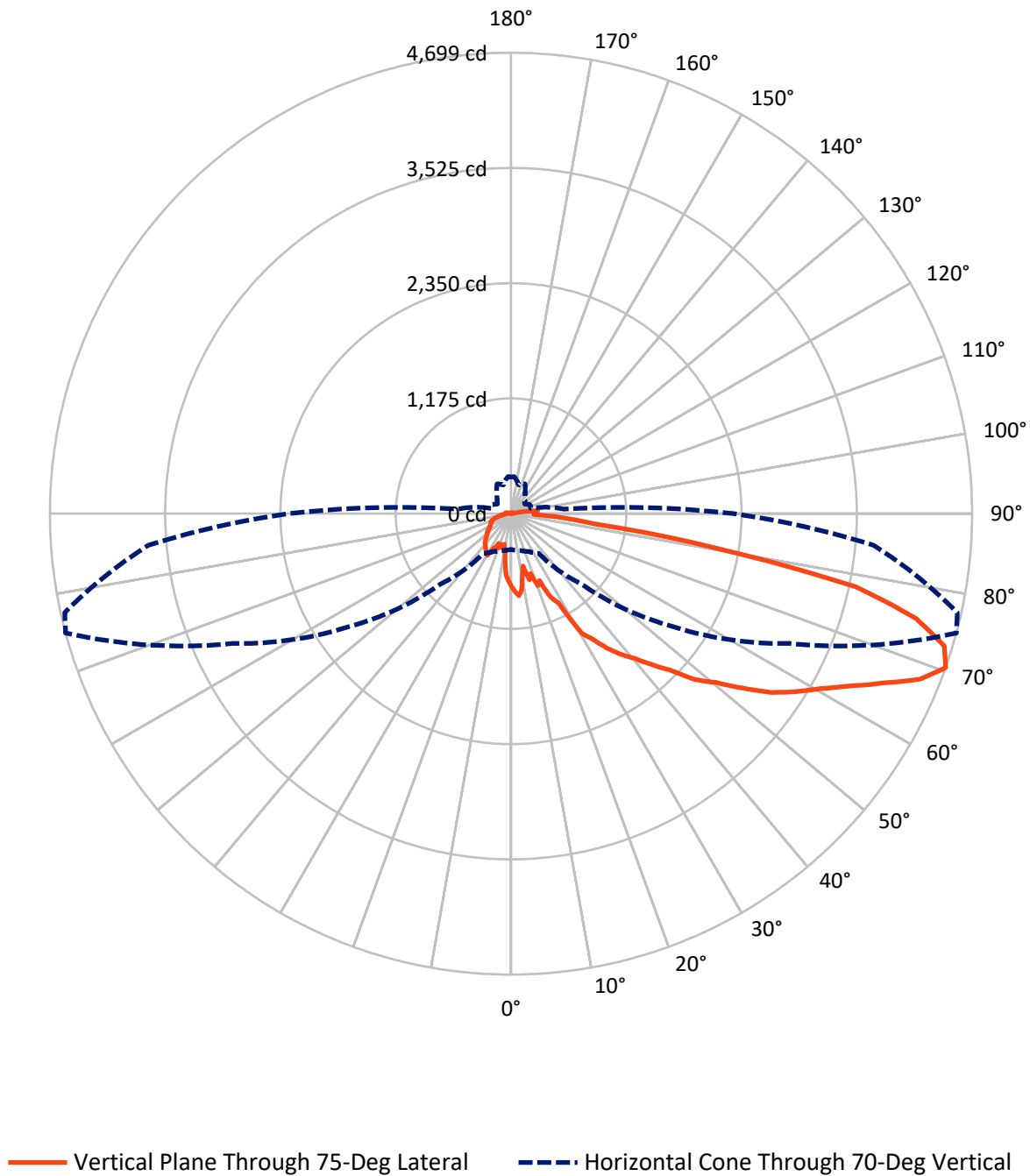


Based on 10 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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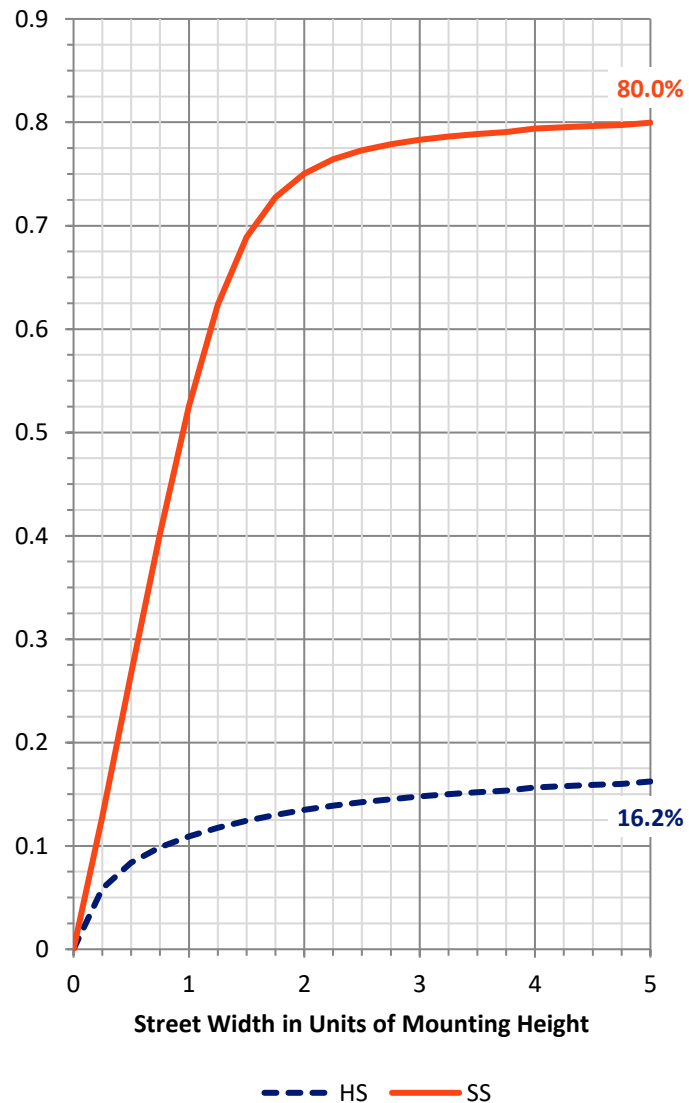
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	946.5	56.6	1003.1
	% Fixture	17.1	1.0	18.1
Street Side	Lumens	4461.9	71.6	4533.5
	% Fixture	80.6	1.3	81.9
Total	Lumens	5408.4	128.2	5536.6
	% Fixture	97.7	2.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	1.1
10°-20°	161.5	2.9
20°-30°	291.6	5.3
30°-40°	595.8	10.8
40°-50°	935.6	16.9
50°-60°	1148.8	20.7
60°-70°	1142.6	20.6
70°-80°	845.1	15.3
80°-90°	225.8	4.1
90°-100°	83.5	1.5
100°-110°	19.5	0.4
110°-120°	9.2	0.2
120°-130°	8.2	0.1
130°-140°	4.0	0.1
140°-150°	2.0	0.0
150°-160°	1.7	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	5408.4	97.7
0°-180°	5536.6	100.0

Coefficient of Utilization



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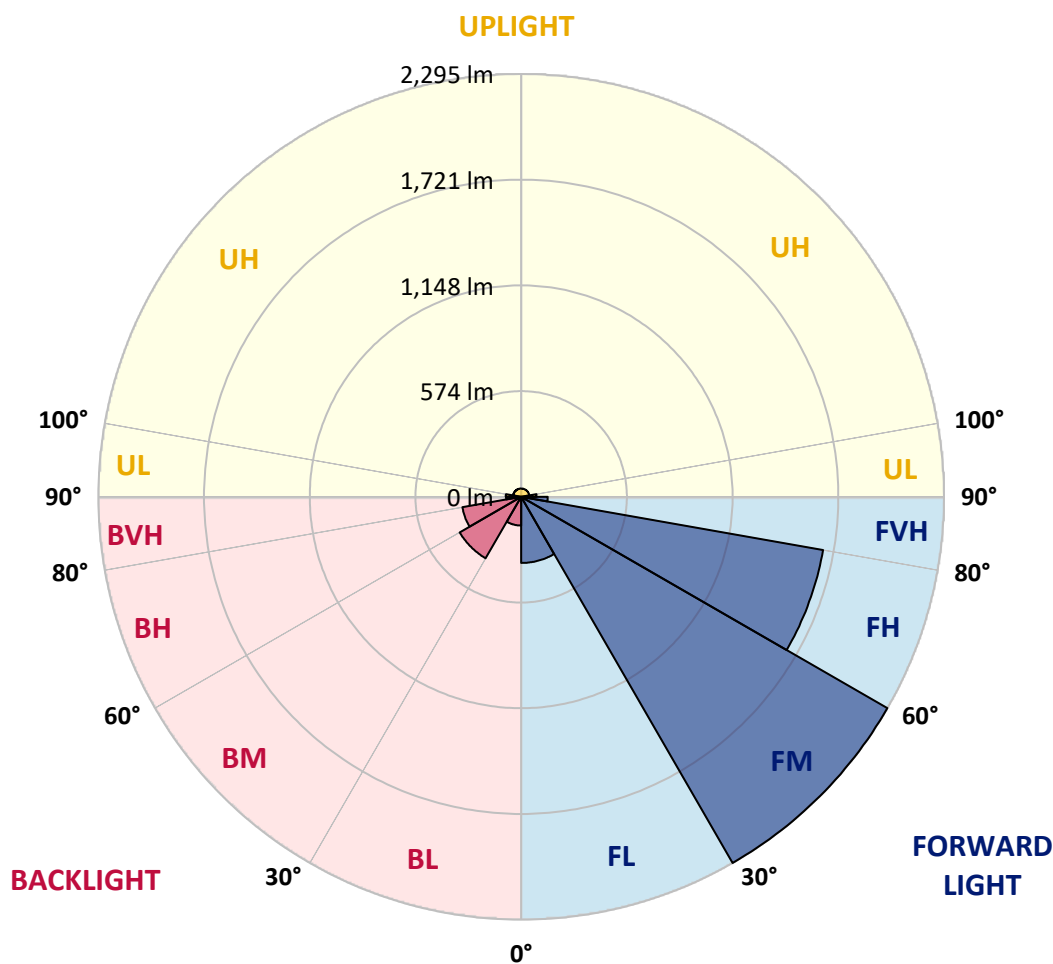
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	358.8	6.5			
FM	(30°-60°)	2295.0	41.5			
FH	(60°-80°)	1663.9	30.1			G1/1800
FVH	(80°-90°)	144.1	2.6			G2/225
BL	(0°-30°)	156.0	2.8	B1/500		
BM	(30°-60°)	385.1	7.0	B1/1000		
BH	(60°-80°)	323.8	5.8	B1/500		G1/500
BVH	(80°-90°)	81.6	1.5			G1/100
UL	(90°-100°)	83.5	1.5		U3/500	
UH	(100°-180°)	44.8	0.8		U2/50	

BUG Rating: B1-U3-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1
2.5°	770.2	813.5	833.0	854.6	874.1	863.3	846.0	820.0	796.2	787.6	761.6
5°	850.3	846.0	843.8	837.3	826.5	807.0	783.2	876.3	839.5	824.3	781.1
7.5°	748.6	867.6	880.6	893.6	889.2	865.4	835.2	750.8	783.2	763.8	709.7
10°	915.2	915.2	910.9	915.2	865.4	826.5	707.5	657.7	633.9	685.9	636.1
12.5°	778.9	848.1	934.7	952.0	876.3	768.1	718.3	694.5	547.4	540.9	579.9
15°	906.6	917.4	919.5	923.9	746.4	804.9	664.2	616.6	698.9	679.4	685.9
17.5°	729.1	740.0	880.6	871.9	802.7	642.6	776.7	696.7	642.6	618.8	610.1
20°	917.4	919.5	913.0	737.8	774.6	839.5	727.0	705.3	783.2	781.1	748.6
22.5°	781.1	783.2	807.0	889.2	800.5	848.1	731.3	880.6	742.1	744.3	577.7
25°	1045.0	1047.2	1025.6	791.9	900.1	796.2	887.1	791.9	947.7	917.4	846.0
27.5°	1097.0	1016.9	934.7	982.3	859.0	988.8	843.8	958.5	1029.9	1023.4	1034.2
30°	1391.2	1395.5	1339.3	1075.3	1006.1	975.8	973.6	1138.1	1410.7	1421.5	1241.9
32.5°	1884.5	1858.6	1581.6	1326.3	1084.0	1190.0	1092.6	1317.6	1525.4	1518.9	1330.6
35°	2109.5	2083.6	1979.7	1637.9	1252.7	1285.2	1233.3	1402.0	1683.3	1633.5	1419.3
37.5°	2299.9	2295.6	2209.1	1804.5	1423.7	1471.3	1317.6	1505.9	1819.6	1767.7	1510.2
40°	2464.4	2449.2	2373.5	1953.8	1598.9	1601.1	1423.7	1631.4	1940.8	1953.8	1598.9
42.5°	2600.7	2587.7	2524.9	2103.0	1702.8	1715.8	1536.2	1759.0	2103.0	2126.8	1737.4
45°	2656.9	2663.4	2620.1	2237.2	1795.8	1819.6	1670.3	1888.8	2276.1	2295.6	1860.7
47.5°	2698.0	2700.2	2689.4	2347.5	1895.3	1906.2	1802.3	2005.7	2527.1	2488.2	2005.7
50°	2605.0	2596.3	2607.2	2431.9	1981.9	1994.9	1912.6	2126.8	2706.7	2656.9	2157.1
52.5°	2360.5	2371.3	2483.8	2388.6	2010.0	2036.0	2016.5	2232.9	2955.5	2916.6	2373.5
55°	1746.0	1793.6	2118.2	2211.2	2007.8	2053.3	2111.7	2434.1	3217.3	3158.9	2557.4
57.5°	1412.8	1412.8	1603.2	1908.3	1897.5	2042.5	2209.1	2570.4	3425.0	3383.9	2741.3
60°	1133.7	1133.7	1237.6	1514.5	1683.3	1988.4	2308.6	2771.6	3621.9	3598.1	2903.6
62.5°	889.2	887.1	973.6	1129.4	1380.4	1869.4	2360.5	2944.7	3868.6	3864.2	3163.2
65°	642.6	651.3	724.8	822.2	1084.0	1646.5	2358.3	3100.5	4165.0	4178.0	3455.3
67.5°	476.0	480.3	521.4	592.8	744.3	1365.2	2254.5	3208.7	4500.3	4478.7	3641.4
70°	365.7	372.1	389.5	426.2	495.5	1014.7	2003.5	3132.9	4699.4	4658.3	3710.6
72.5°	307.2	309.4	307.2	326.7	331.0	688.0	1605.4	2845.2	4617.2	4552.3	3520.2
75°	261.8	259.6	257.5	261.8	244.5	454.4	1151.0	2408.1	4262.3	4149.8	3109.1
77.5°	225.0	222.9	214.2	216.4	194.7	335.4	785.4	1888.8	3591.6	3327.7	2336.7
80°	186.1	186.1	179.6	179.6	164.4	255.3	502.0	1302.5	2092.2	1882.4	1216.0
82.5°	145.0	142.8	142.8	147.1	140.6	199.1	328.9	649.1	863.3	809.2	569.0
85°	77.9	77.9	88.7	99.5	97.4	121.2	251.0	383.0	510.6	493.3	318.1
87.5°	23.8	23.8	26.0	32.5	34.6	64.9	157.9	186.1	231.5	255.3	251.0
90°	26.0	23.8	17.3	19.5	21.6	47.6	147.1	179.6	233.7	259.6	266.1
92.5°	30.3	28.1	17.3	17.3	21.6	38.9	140.6	175.3	255.3	281.3	287.8
95°	32.5	30.3	17.3	17.3	21.6	34.6	125.5	173.1	272.6	307.2	307.2
97.5°	30.3	28.1	13.0	15.1	19.5	30.3	97.4	142.8	190.4	209.9	242.3
100°	26.0	26.0	8.7	13.0	17.3	21.6	56.3	77.9	56.3	54.1	54.1
102.5°	23.8	23.8	8.7	10.8	13.0	15.1	26.0	41.1	13.0	15.1	19.5
105°	23.8	26.0	6.5	8.7	8.7	8.7	13.0	21.6	10.8	13.0	19.5
107.5°	23.8	26.0	6.5	6.5	8.7	6.5	6.5	8.7	10.8	13.0	21.6
110°	21.6	21.6	4.3	6.5	6.5	6.5	4.3	6.5	10.8	15.1	21.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
112.5°	15.1	15.1	4.3	6.5	6.5	6.5	4.3	6.5	10.8	15.1	21.6
115°	10.8	8.7	4.3	6.5	4.3	6.5	4.3	6.5	10.8	15.1	19.5
117.5°	8.7	6.5	4.3	4.3	4.3	4.3	2.2	6.5	13.0	17.3	23.8
120°	8.7	8.7	4.3	4.3	4.3	4.3	2.2	6.5	19.5	21.6	30.3
122.5°	8.7	8.7	4.3	4.3	4.3	4.3	2.2	4.3	17.3	23.8	32.5
125°	8.7	8.7	4.3	4.3	4.3	4.3	2.2	4.3	15.1	21.6	28.1
127.5°	8.7	8.7	4.3	2.2	4.3	4.3	4.3	4.3	13.0	17.3	23.8
130°	8.7	8.7	4.3	2.2	4.3	4.3	4.3	4.3	10.8	13.0	19.5
132.5°	6.5	6.5	4.3	2.2	4.3	2.2	2.2	4.3	8.7	10.8	15.1
135°	4.3	4.3	4.3	2.2	4.3	2.2	2.2	2.2	4.3	6.5	10.8
137.5°	2.2	4.3	2.2	2.2	4.3	2.2	2.2	2.2	2.2	2.2	4.3
140°	2.2	2.2	2.2	2.2	4.3	2.2	2.2	2.2	2.2	2.2	2.2
142.5°	2.2	2.2	2.2	2.2	4.3	4.3	2.2	2.2	2.2	2.2	2.2
145°	2.2	2.2	2.2	2.2	6.5	4.3	2.2	2.2	2.2	2.2	2.2
147.5°	2.2	2.2	2.2	8.7	6.5	4.3	2.2	2.2	2.2	2.2	2.2
150°	10.8	10.8	10.8	8.7	6.5	4.3	6.5	2.2	2.2	2.2	2.2
152.5°	10.8	10.8	13.0	6.5	4.3	2.2	2.2	8.7	6.5	4.3	4.3
155°	8.7	6.5	6.5	2.2	2.2	2.2	2.2	2.2	6.5	8.7	8.7
157.5°	2.2	2.2	4.3	2.2	2.2	2.2	2.2	2.2	4.3	2.2	2.2
160°	0.0	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1
2.5°	746.4	729.1	688.0	657.7	621.0	588.5	560.4	497.6	486.8	480.3	478.2
5°	746.4	709.7	629.6	532.3	456.5	439.2	430.6	430.6	426.2	428.4	430.6
7.5°	662.1	612.3	491.1	415.4	428.4	428.4	430.6	419.7	385.1	389.5	383.0
10°	579.9	517.1	370.0	337.5	370.0	372.1	421.9	441.4	447.9	450.0	450.0
12.5°	534.4	445.7	320.2	331.0	298.6	341.9	402.4	450.0	408.9	387.3	387.3
15°	614.5	527.9	359.2	289.9	294.3	341.9	305.1	426.2	441.4	445.7	445.7
17.5°	551.7	465.2	328.9	298.6	328.9	281.3	344.0	391.6	374.3	354.8	352.7
20°	662.1	549.6	367.8	292.1	289.9	333.2	305.1	320.2	400.3	402.4	400.3
22.5°	514.9	439.2	326.7	331.0	289.9	318.1	300.7	331.0	315.9	313.7	315.9
25°	714.0	569.0	376.5	285.6	302.9	281.3	302.9	279.1	335.4	339.7	341.9
27.5°	874.1	679.4	400.3	309.4	264.0	287.8	270.5	279.1	259.6	270.5	274.8
30°	1040.7	791.9	489.0	341.9	279.1	246.7	251.0	248.8	281.3	279.1	274.8
32.5°	1094.8	807.0	467.3	357.0	276.9	248.8	229.3	244.5	268.3	287.8	289.9
35°	1148.9	817.8	450.0	341.9	270.5	233.7	225.0	251.0	270.5	272.6	279.1
37.5°	1211.6	826.5	432.7	320.2	251.0	229.3	222.9	233.7	276.9	272.6	266.1
40°	1270.0	830.8	411.1	300.7	229.3	225.0	207.7	233.7	244.5	253.1	257.5
42.5°	1373.9	856.8	393.8	283.4	214.2	214.2	199.1	218.5	251.0	255.3	253.1
45°	1449.6	848.1	370.0	268.3	199.1	190.4	194.7	238.0	253.1	279.1	274.8
47.5°	1557.8	869.8	341.9	244.5	186.1	175.3	183.9	231.5	259.6	279.1	283.4
50°	1663.8	865.4	318.1	225.0	177.4	166.6	203.4	225.0	255.3	287.8	287.8
52.5°	1802.3	871.9	307.2	207.7	166.6	166.6	209.9	227.2	261.8	283.4	283.4
55°	1925.6	848.1	281.3	201.2	164.4	160.1	212.0	235.8	264.0	283.4	285.6
57.5°	2016.5	800.5	261.8	194.7	162.3	164.4	212.0	255.3	246.7	283.4	289.9
60°	2116.0	748.6	244.5	194.7	162.3	170.9	218.5	270.5	270.5	296.4	296.4
62.5°	2252.3	716.2	235.8	196.9	157.9	177.4	238.0	294.3	272.6	313.7	315.9
65°	2367.0	672.9	229.3	205.5	160.1	186.1	248.8	313.7	285.6	333.2	331.0
67.5°	2369.2	608.0	220.7	214.2	162.3	192.6	248.8	326.7	300.7	350.5	344.0
70°	2265.3	543.1	207.7	214.2	168.8	199.1	248.8	335.4	302.9	378.6	372.1
72.5°	2042.5	443.5	188.2	205.5	179.6	207.7	261.8	333.2	302.9	408.9	402.4
75°	1737.4	354.8	162.3	188.2	179.6	218.5	270.5	331.0	292.1	389.5	376.5
77.5°	1322.0	289.9	136.3	164.4	170.9	222.9	270.5	326.7	283.4	363.5	354.8
80°	681.5	203.4	110.3	140.6	160.1	218.5	268.3	309.4	253.1	322.4	318.1
82.5°	374.3	149.3	88.7	103.9	134.1	205.5	259.6	279.1	222.9	264.0	253.1
85°	242.3	108.2	71.4	84.4	112.5	170.9	218.5	220.7	157.9	190.4	179.6
87.5°	181.7	62.7	45.4	51.9	77.9	95.2	138.5	142.8	99.5	116.8	110.3
90°	190.4	62.7	47.6	54.1	69.2	71.4	101.7	108.2	77.9	88.7	88.7
92.5°	203.4	62.7	49.8	56.3	62.7	56.3	80.1	88.7	64.9	71.4	69.2
95°	207.7	60.6	54.1	58.4	56.3	45.4	64.9	71.4	54.1	54.1	54.1
97.5°	151.5	43.3	54.1	58.4	51.9	36.8	49.8	56.3	34.6	28.1	28.1
100°	41.1	21.6	51.9	56.3	45.4	30.3	43.3	43.3	21.6	15.1	15.1
102.5°	17.3	17.3	45.4	49.8	34.6	19.5	30.3	30.3	15.1	6.5	6.5
105°	17.3	13.0	32.5	36.8	23.8	10.8	15.1	17.3	10.8	6.5	6.5
107.5°	17.3	13.0	15.1	19.5	10.8	8.7	8.7	8.7	6.5	6.5	6.5
110°	19.5	13.0	8.7	10.8	8.7	6.5	6.5	6.5	6.5	8.7	10.8



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CATALOG NUMBER: SDL-PA1-70-830-U-T2R-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	21.6	15.1	8.7	10.8	8.7	6.5	6.5	6.5	8.7	19.5	19.5
115°	19.5	13.0	8.7	8.7	6.5	6.5	4.3	4.3	8.7	23.8	23.8
117.5°	21.6	15.1	8.7	8.7	6.5	4.3	4.3	4.3	10.8	28.1	28.1
120°	26.0	17.3	8.7	6.5	4.3	4.3	4.3	4.3	13.0	30.3	30.3
122.5°	28.1	19.5	8.7	6.5	4.3	2.2	4.3	6.5	15.1	30.3	30.3
125°	23.8	17.3	8.7	6.5	4.3	2.2	4.3	6.5	15.1	28.1	30.3
127.5°	21.6	15.1	8.7	4.3	4.3	2.2	2.2	6.5	13.0	21.6	26.0
130°	17.3	13.0	6.5	4.3	4.3	2.2	2.2	4.3	13.0	19.5	23.8
132.5°	15.1	10.8	6.5	4.3	4.3	2.2	2.2	4.3	13.0	17.3	17.3
135°	10.8	8.7	4.3	4.3	4.3	2.2	4.3	2.2	8.7	15.1	15.1
137.5°	6.5	4.3	4.3	4.3	4.3	2.2	2.2	2.2	6.5	8.7	8.7
140°	2.2	2.2	4.3	4.3	4.3	2.2	2.2	2.2	4.3	4.3	4.3
142.5°	2.2	2.2	4.3	4.3	4.3	2.2	2.2	2.2	4.3	4.3	4.3
145°	2.2	2.2	2.2	4.3	4.3	2.2	2.2	2.2	2.2	2.2	4.3
147.5°	2.2	2.2	2.2	4.3	2.2	2.2	2.2	2.2	2.2	2.2	4.3
150°	2.2	2.2	2.2	4.3	4.3	2.2	2.2	4.3	4.3	4.3	4.3
152.5°	2.2	2.2	4.3	4.3	2.2	2.2	2.2	4.3	4.3	4.3	4.3
155°	6.5	6.5	4.3	4.3	2.2	2.2	0.0	2.2	4.3	4.3	4.3
157.5°	2.2	2.2	4.3	2.2	2.2	2.2	0.0	2.2	2.2	2.2	2.2
160°	2.2	2.2	2.2	2.2	2.2	2.2	0.0	2.2	2.2	2.2	2.2
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)