

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: P560402

Luminaire Tested: **SDL-PA1-40-750-U-T2R-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P560402
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-PA1-40-750-U-T2R-A
Description: Springdale
(1) 70 CRI, 5000K, 500mA 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: 4065 lumens
Efficiency: N/A
Efficacy: 103.2 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): 39.4
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



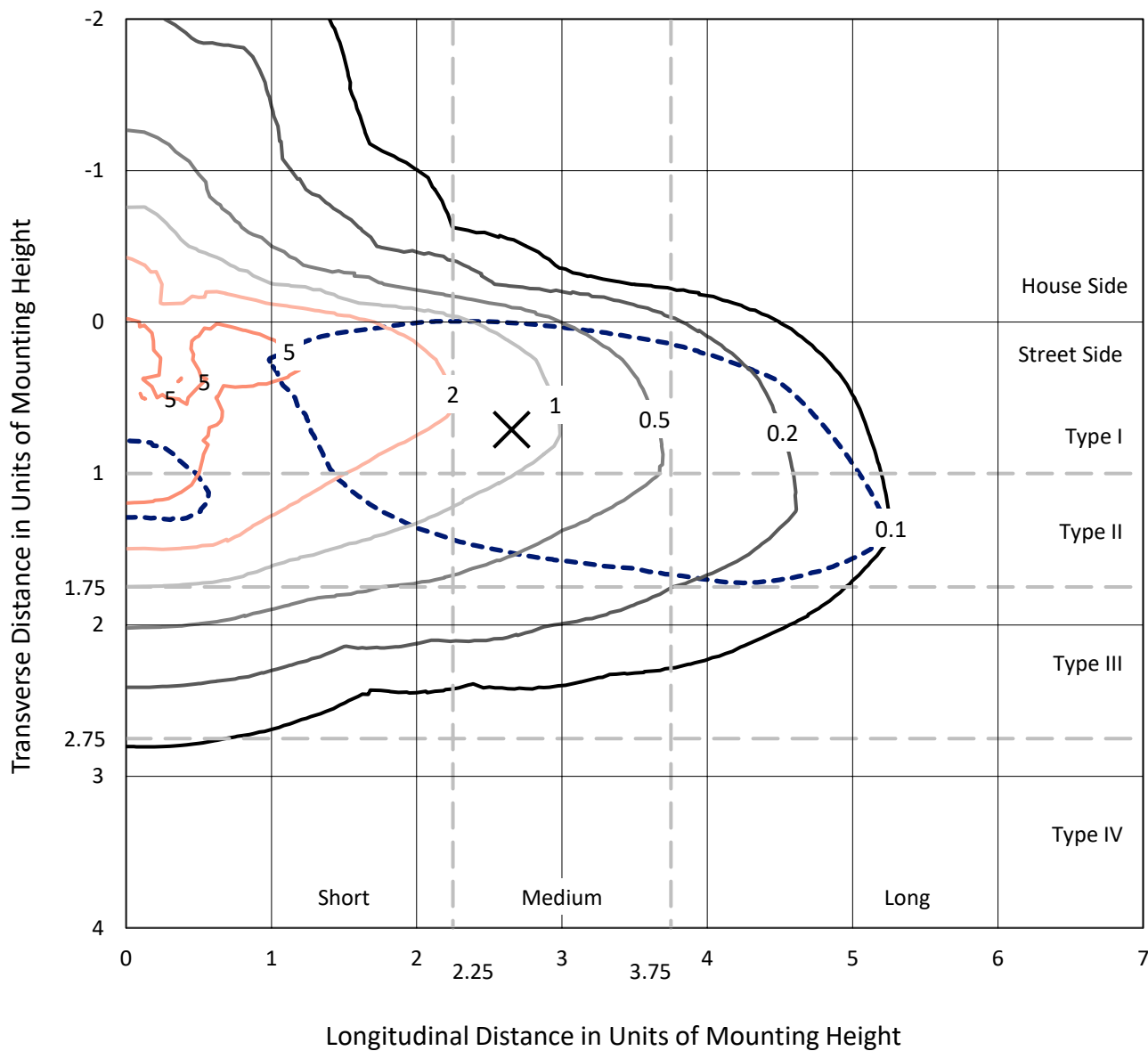
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



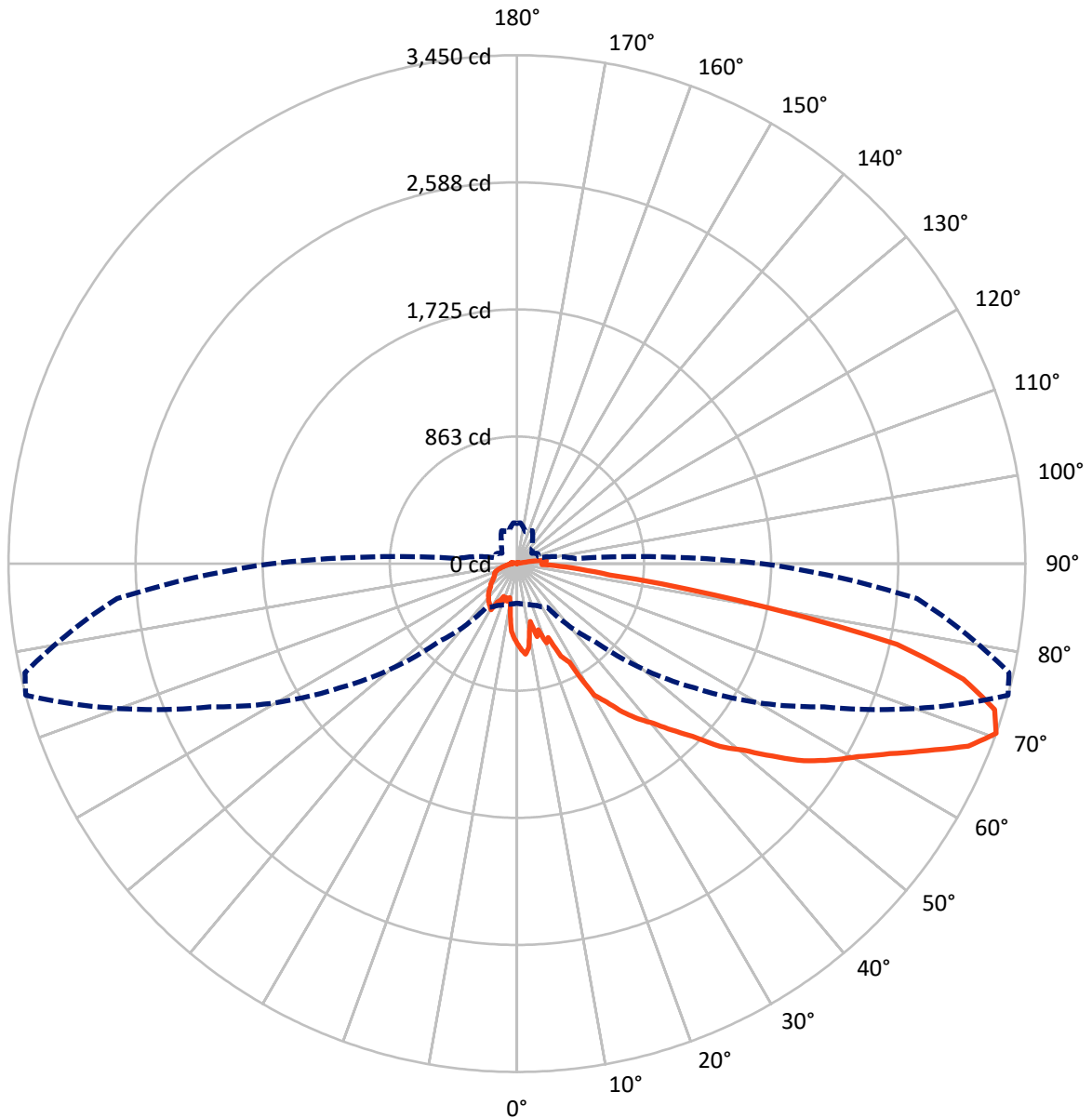
Based on 10 foot mounting height. Maximum calculated value = 8.5 fc

Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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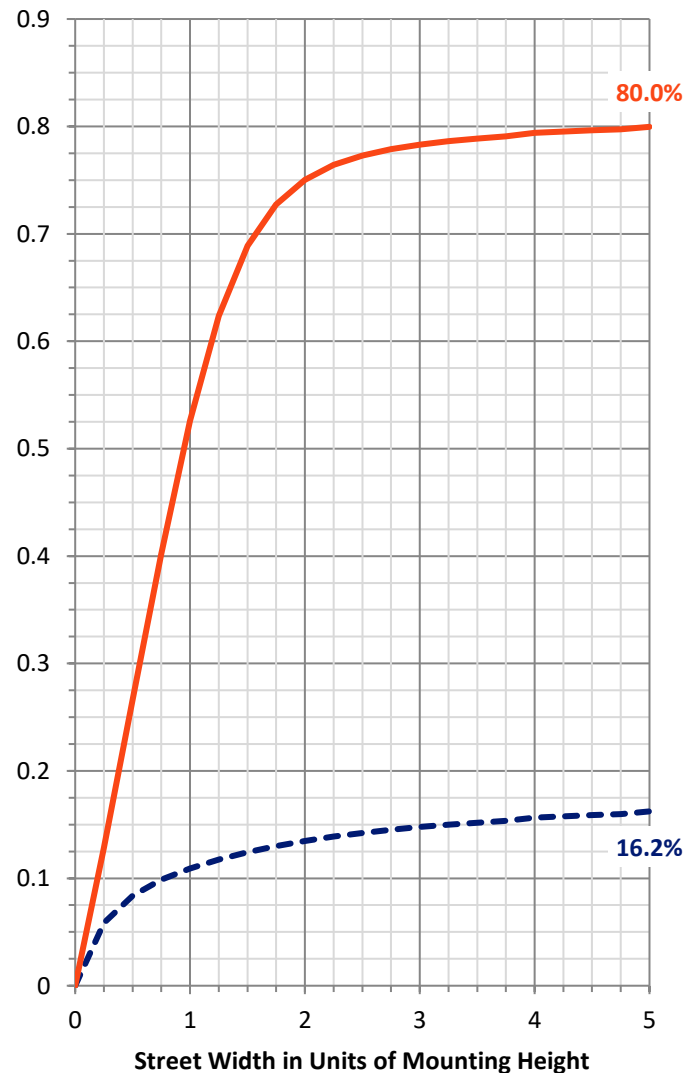
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	694.9	41.6	736.5
	% Fixture	17.1	1.0	18.1
Street Side	Lumens	3275.9	52.6	3328.5
	% Fixture	80.6	1.3	81.9
Total	Lumens	3970.8	94.2	4065.0
	% Fixture	97.7	2.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	1.1
10°-20°	118.6	2.9
20°-30°	214.1	5.3
30°-40°	437.4	10.8
40°-50°	686.9	16.9
50°-60°	843.4	20.7
60°-70°	838.9	20.6
70°-80°	620.5	15.3
80°-90°	165.8	4.1
90°-100°	61.3	1.5
100°-110°	14.3	0.4
110°-120°	6.8	0.2
120°-130°	6.1	0.1
130°-140°	2.9	0.1
140°-150°	1.5	0.0
150°-160°	1.3	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	3970.8	97.7
0°-180°	4065.0	100.0



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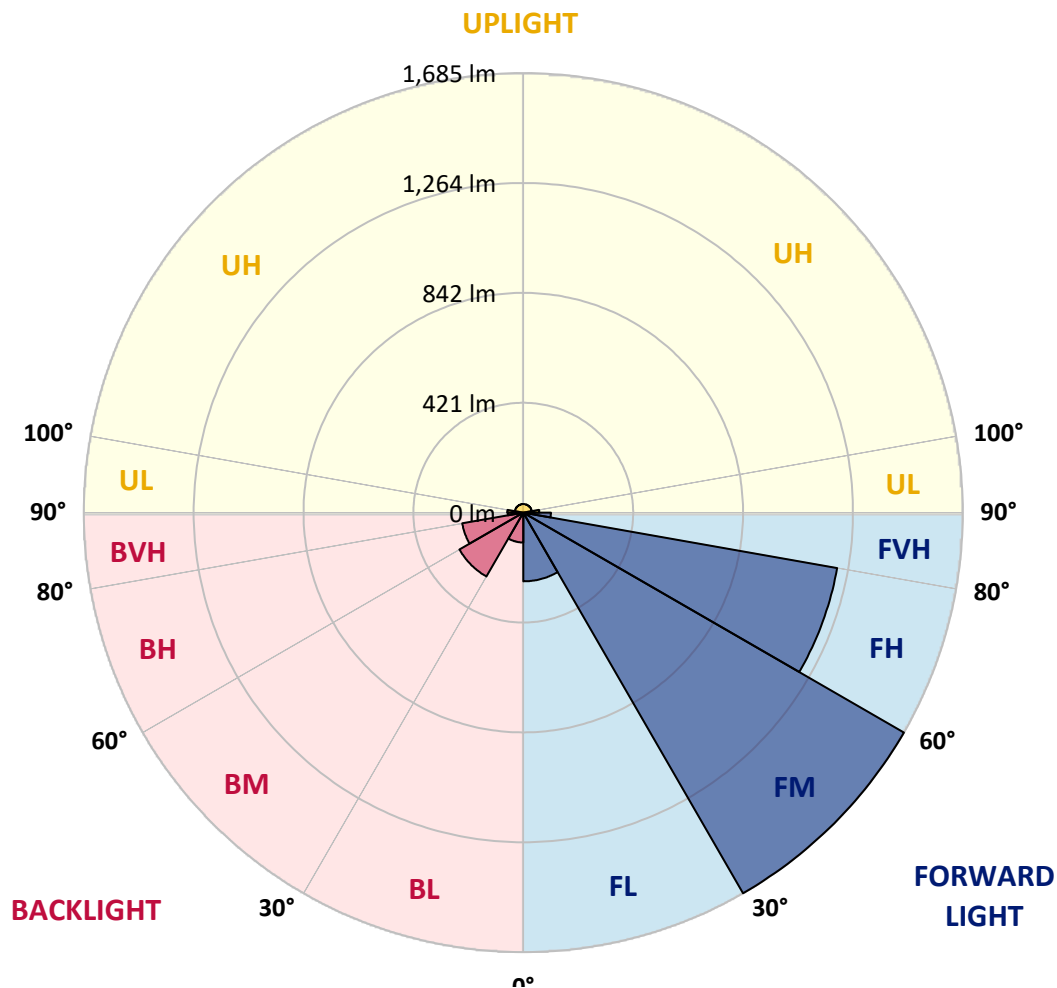
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	263.5	6.5			
FM	(30°-60°)	1685.0	41.5			
FH	(60°-80°)	1221.6	30.1			G1/1800
FVH	(80°-90°)	105.8	2.6			G2/225
BL	(0°-30°)	114.5	2.8	B1/500		
BM	(30°-60°)	282.7	7.0	B1/1000		
BH	(60°-80°)	237.7	5.8	B1/500		G1/500
BVH	(80°-90°)	59.9	1.5			G1/100
UL	(90°-100°)	61.3	1.5		U3/500	
UH	(100°-180°)	32.9	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°	544.9	544.9	544.9	544.9	544.9	544.9	544.9	544.9	544.9	544.9	544.9
2.5°	565.5	597.3	611.6	627.5	641.8	633.8	621.1	602.0	584.6	578.2	559.2
5°	624.3	621.1	619.5	614.8	606.8	592.5	575.0	643.3	616.3	605.2	573.5
7.5°	549.6	637.0	646.5	656.1	652.9	635.4	613.2	551.2	575.0	560.7	521.0
10°	671.9	671.9	668.8	671.9	635.4	606.8	519.4	482.9	465.4	503.6	467.0
12.5°	571.9	622.7	686.2	698.9	643.3	563.9	527.4	509.9	401.9	397.1	425.7
15°	665.6	673.5	675.1	678.3	548.0	590.9	487.7	452.7	513.1	498.8	503.6
17.5°	535.3	543.3	646.5	640.2	589.3	471.8	570.3	511.5	471.8	454.3	448.0
20°	673.5	675.1	670.4	541.7	568.7	616.3	533.7	517.9	575.0	573.5	549.6
22.5°	573.5	575.0	592.5	652.9	587.7	622.7	536.9	646.5	544.9	546.4	424.1
25°	767.3	768.8	753.0	581.4	660.8	584.6	651.3	581.4	695.8	673.5	621.1
27.5°	805.4	746.6	686.2	721.2	630.6	725.9	619.5	703.7	756.1	751.4	759.3
30°	1021.4	1024.6	983.3	789.5	738.7	716.4	714.8	835.6	1035.7	1043.7	911.8
32.5°	1383.6	1364.5	1161.2	973.8	795.8	873.7	802.2	967.4	1119.9	1115.1	976.9
35°	1548.8	1529.7	1453.5	1202.5	919.7	943.6	905.5	1029.4	1235.9	1199.3	1042.1
37.5°	1688.6	1685.4	1621.9	1324.8	1045.2	1080.2	967.4	1105.6	1335.9	1297.8	1108.8
40°	1809.3	1798.2	1742.6	1434.4	1173.9	1175.5	1045.2	1197.7	1424.9	1434.4	1173.9
42.5°	1909.4	1899.9	1853.8	1544.0	1250.2	1259.7	1127.8	1291.5	1544.0	1561.5	1275.6
45°	1950.7	1955.5	1923.7	1642.5	1318.5	1335.9	1226.3	1386.8	1671.1	1685.4	1366.1
47.5°	1980.9	1982.5	1974.5	1723.5	1391.5	1399.5	1323.2	1472.5	1855.4	1826.8	1472.5
50°	1912.6	1906.2	1914.2	1785.5	1455.1	1464.6	1404.2	1561.5	1987.2	1950.7	1583.7
52.5°	1733.1	1741.0	1823.6	1753.7	1475.7	1494.8	1480.5	1639.3	2169.9	2141.3	1742.6
55°	1281.9	1316.9	1555.2	1623.5	1474.1	1507.5	1550.4	1787.1	2362.1	2319.2	1877.6
57.5°	1037.3	1037.3	1177.1	1401.1	1393.1	1499.6	1621.9	1887.1	2514.6	2484.4	2012.6
60°	832.4	832.4	908.6	1112.0	1235.9	1459.8	1694.9	2034.9	2659.2	2641.7	2131.8
62.5°	652.9	651.3	714.8	829.2	1013.5	1372.5	1733.1	2162.0	2840.3	2837.1	2322.4
65°	471.8	478.1	532.2	603.6	795.8	1208.9	1731.5	2276.3	3057.9	3067.4	2536.9
67.5°	349.5	352.6	382.8	435.3	546.4	1002.3	1655.2	2355.8	3304.1	3288.2	2673.5
70°	268.5	273.2	285.9	312.9	363.8	745.0	1471.0	2300.2	3450.2	3420.1	2724.3
72.5°	225.6	227.2	225.6	239.9	243.0	505.1	1178.7	2088.9	3389.9	3342.2	2584.5
75°	192.2	190.6	189.0	192.2	179.5	333.6	845.1	1768.0	3129.4	3046.8	2282.7
77.5°	165.2	163.6	157.3	158.9	143.0	246.2	576.6	1386.8	2636.9	2443.1	1715.6
80°	136.6	136.6	131.8	131.8	120.7	187.4	368.5	956.3	1536.1	1382.0	892.7
82.5°	106.4	104.8	104.8	108.0	103.3	146.1	241.5	476.6	633.8	594.1	417.8
85°	57.2	57.2	65.1	73.1	71.5	89.0	184.3	281.2	374.9	362.2	233.5
87.5°	17.5	17.5	19.1	23.8	25.4	47.7	116.0	136.6	170.0	187.4	184.3
90°	19.1	17.5	12.7	14.3	15.9	34.9	108.0	131.8	171.6	190.6	195.4
92.5°	22.2	20.7	12.7	12.7	15.9	28.6	103.3	128.7	187.4	206.5	211.3
95°	23.8	22.2	12.7	12.7	15.9	25.4	92.1	127.1	200.2	225.6	225.6
97.5°	22.2	20.7	9.5	11.1	14.3	22.2	71.5	104.8	139.8	154.1	177.9
100°	19.1	19.1	6.4	9.5	12.7	15.9	41.3	57.2	41.3	39.7	39.7
102.5°	17.5	17.5	6.4	7.9	9.5	11.1	19.1	30.2	9.5	11.1	14.3
105°	17.5	19.1	4.8	6.4	6.4	6.4	9.5	15.9	7.9	9.5	14.3
107.5°	17.5	19.1	4.8	4.8	6.4	4.8	4.8	6.4	7.9	9.5	15.9



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CATALOG NUMBER: SDL-PA1-40-750-U-T2R-A

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
112.5°	11.1	11.1	3.2	4.8	4.8	4.8	3.2	4.8	7.9	11.1	15.9
115°	7.9	6.4	3.2	4.8	3.2	4.8	3.2	4.8	7.9	11.1	14.3
117.5°	6.4	4.8	3.2	3.2	3.2	3.2	1.6	4.8	9.5	12.7	17.5
120°	6.4	6.4	3.2	3.2	3.2	3.2	1.6	4.8	14.3	15.9	22.2
122.5°	6.4	6.4	3.2	3.2	3.2	3.2	1.6	3.2	12.7	17.5	23.8
125°	6.4	6.4	3.2	3.2	3.2	3.2	1.6	3.2	11.1	15.9	20.7
127.5°	6.4	6.4	3.2	1.6	3.2	3.2	3.2	3.2	9.5	12.7	17.5
130°	6.4	6.4	3.2	1.6	3.2	3.2	3.2	3.2	7.9	9.5	14.3
132.5°	4.8	4.8	3.2	1.6	3.2	1.6	1.6	3.2	6.4	7.9	11.1
135°	3.2	3.2	3.2	1.6	3.2	1.6	1.6	1.6	3.2	4.8	7.9
137.5°	1.6	3.2	1.6	1.6	3.2	1.6	1.6	1.6	1.6	1.6	3.2
140°	1.6	1.6	1.6	1.6	3.2	1.6	1.6	1.6	1.6	1.6	1.6
142.5°	1.6	1.6	1.6	1.6	3.2	3.2	1.6	1.6	1.6	1.6	1.6
145°	1.6	1.6	1.6	1.6	4.8	3.2	1.6	1.6	1.6	1.6	1.6
147.5°	1.6	1.6	1.6	6.4	4.8	3.2	1.6	1.6	1.6	1.6	1.6
150°	7.9	7.9	7.9	6.4	4.8	3.2	4.8	1.6	1.6	1.6	1.6
152.5°	7.9	7.9	9.5	4.8	3.2	1.6	1.6	6.4	4.8	3.2	3.2
155°	6.4	4.8	4.8	1.6	1.6	1.6	1.6	1.6	4.8	6.4	6.4
157.5°	1.6	1.6	3.2	1.6	1.6	1.6	1.6	1.6	3.2	1.6	1.6
160°	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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°	544.9	544.9	544.9	544.9	544.9	544.9	544.9	544.9	544.9	544.9	544.9
2.5°	548.0	535.3	505.1	482.9	455.9	432.1	411.4	365.4	357.4	352.6	351.1
5°	548.0	521.0	462.3	390.8	335.2	322.5	316.1	316.1	312.9	314.5	316.1
7.5°	486.1	449.5	360.6	305.0	314.5	314.5	316.1	308.2	282.8	285.9	281.2
10°	425.7	379.7	271.6	247.8	271.6	273.2	309.8	324.1	328.8	330.4	330.4
12.5°	392.4	327.2	235.1	243.0	219.2	251.0	295.5	330.4	300.2	284.3	284.3
15°	451.1	387.6	263.7	212.9	216.0	251.0	224.0	312.9	324.1	327.2	327.2
17.5°	405.1	341.5	241.5	219.2	241.5	206.5	252.6	287.5	274.8	260.5	258.9
20°	486.1	403.5	270.0	214.4	212.9	244.6	224.0	235.1	293.9	295.5	293.9
22.5°	378.1	322.5	239.9	243.0	212.9	233.5	220.8	243.0	231.9	230.3	231.9
25°	524.2	417.8	276.4	209.7	222.4	206.5	222.4	204.9	246.2	249.4	251.0
27.5°	641.8	498.8	293.9	227.2	193.8	211.3	198.6	204.9	190.6	198.6	201.7
30°	764.1	581.4	359.0	251.0	204.9	181.1	184.3	182.7	206.5	204.9	201.7
32.5°	803.8	592.5	343.1	262.1	203.3	182.7	168.4	179.5	197.0	211.3	212.9
35°	843.5	600.5	330.4	251.0	198.6	171.6	165.2	184.3	198.6	200.2	204.9
37.5°	889.6	606.8	317.7	235.1	184.3	168.4	163.6	171.6	203.3	200.2	195.4
40°	932.5	610.0	301.8	220.8	168.4	165.2	152.5	171.6	179.5	185.9	189.0
42.5°	1008.7	629.0	289.1	208.1	157.3	157.3	146.1	160.4	184.3	187.4	185.9
45°	1064.3	622.7	271.6	197.0	146.1	139.8	143.0	174.7	185.9	204.9	201.7
47.5°	1143.7	638.6	251.0	179.5	136.6	128.7	135.0	170.0	190.6	204.9	208.1
50°	1221.6	635.4	233.5	165.2	130.3	122.3	149.3	165.2	187.4	211.3	211.3
52.5°	1323.2	640.2	225.6	152.5	122.3	122.3	154.1	166.8	192.2	208.1	208.1
55°	1413.8	622.7	206.5	147.7	120.7	117.5	155.7	173.1	193.8	208.1	209.7
57.5°	1480.5	587.7	192.2	143.0	119.1	120.7	155.7	187.4	181.1	208.1	212.9
60°	1553.6	549.6	179.5	143.0	119.1	125.5	160.4	198.6	198.6	217.6	217.6
62.5°	1653.6	525.8	173.1	144.6	116.0	130.3	174.7	216.0	200.2	230.3	231.9
65°	1737.8	494.0	168.4	150.9	117.5	136.6	182.7	230.3	209.7	244.6	243.0
67.5°	1739.4	446.4	162.0	157.3	119.1	141.4	182.7	239.9	220.8	257.3	252.6
70°	1663.2	398.7	152.5	157.3	123.9	146.1	182.7	246.2	222.4	278.0	273.2
72.5°	1499.6	325.6	138.2	150.9	131.8	152.5	192.2	244.6	222.4	300.2	295.5
75°	1275.6	260.5	119.1	138.2	131.8	160.4	198.6	243.0	214.4	285.9	276.4
77.5°	970.6	212.9	100.1	120.7	125.5	163.6	198.6	239.9	208.1	266.9	260.5
80°	500.4	149.3	81.0	103.3	117.5	160.4	197.0	227.2	185.9	236.7	233.5
82.5°	274.8	109.6	65.1	76.2	98.5	150.9	190.6	204.9	163.6	193.8	185.9
85°	177.9	79.4	52.4	62.0	82.6	125.5	160.4	162.0	116.0	139.8	131.8
87.5°	133.4	46.1	33.4	38.1	57.2	69.9	101.7	104.8	73.1	85.8	81.0
90°	139.8	46.1	34.9	39.7	50.8	52.4	74.7	79.4	57.2	65.1	65.1
92.5°	149.3	46.1	36.5	41.3	46.1	41.3	58.8	65.1	47.7	52.4	50.8
95°	152.5	44.5	39.7	42.9	41.3	33.4	47.7	52.4	39.7	39.7	39.7
97.5°	111.2	31.8	39.7	42.9	38.1	27.0	36.5	41.3	25.4	20.7	20.7
100°	30.2	15.9	38.1	41.3	33.4	22.2	31.8	31.8	15.9	11.1	11.1
102.5°	12.7	12.7	33.4	36.5	25.4	14.3	22.2	22.2	11.1	4.8	4.8
105°	12.7	9.5	23.8	27.0	17.5	7.9	11.1	12.7	7.9	4.8	4.8
107.5°	12.7	9.5	11.1	14.3	7.9	6.4	6.4	6.4	4.8	4.8	4.8



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CATALOG NUMBER: SDL-PA1-40-750-U-T2R-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	15.9	11.1	6.4	7.9	6.4	4.8	4.8	4.8	6.4	14.3	14.3
115°	14.3	9.5	6.4	6.4	4.8	4.8	3.2	3.2	6.4	17.5	17.5
117.5°	15.9	11.1	6.4	6.4	4.8	3.2	3.2	3.2	7.9	20.7	20.7
120°	19.1	12.7	6.4	4.8	3.2	3.2	3.2	3.2	9.5	22.2	22.2
122.5°	20.7	14.3	6.4	4.8	3.2	1.6	3.2	4.8	11.1	22.2	22.2
125°	17.5	12.7	6.4	4.8	3.2	1.6	3.2	4.8	11.1	20.7	22.2
127.5°	15.9	11.1	6.4	3.2	3.2	1.6	1.6	4.8	9.5	15.9	19.1
130°	12.7	9.5	4.8	3.2	3.2	1.6	1.6	3.2	9.5	14.3	17.5
132.5°	11.1	7.9	4.8	3.2	3.2	1.6	1.6	3.2	9.5	12.7	12.7
135°	7.9	6.4	3.2	3.2	3.2	1.6	3.2	1.6	6.4	11.1	11.1
137.5°	4.8	3.2	3.2	3.2	3.2	1.6	1.6	1.6	4.8	6.4	6.4
140°	1.6	1.6	3.2	3.2	3.2	1.6	1.6	1.6	3.2	3.2	3.2
142.5°	1.6	1.6	3.2	3.2	3.2	1.6	1.6	1.6	3.2	3.2	3.2
145°	1.6	1.6	1.6	3.2	3.2	1.6	1.6	1.6	1.6	1.6	3.2
147.5°	1.6	1.6	1.6	3.2	1.6	1.6	1.6	1.6	1.6	1.6	3.2
150°	1.6	1.6	1.6	3.2	3.2	1.6	1.6	3.2	3.2	3.2	3.2
152.5°	1.6	1.6	3.2	3.2	1.6	1.6	1.6	3.2	3.2	3.2	3.2
155°	4.8	4.8	3.2	3.2	1.6	1.6	0.0	1.6	3.2	3.2	3.2
157.5°	1.6	1.6	3.2	1.6	1.6	1.6	0.0	1.6	1.6	1.6	1.6
160°	1.6	1.6	1.6	1.6	1.6	1.6	0.0	1.6	1.6	1.6	1.6
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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110°	15.9	15.9	3.2	4.8	4.8	4.8	3.2	4.8	7.9	11.1	15.9
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110°	14.3	9.5	6.4	7.9	6.4	4.8	4.8	4.8	4.8	6.4	7.9
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(END OF REPORT)