

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: P561238

Luminaire Tested: **SDL-PA1-90-730-U-T2R-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561238
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-PA1-90-730-U-T2R-A
Description: Springdale
(1) 70 CRI, 3000K, 1180mA 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: 7633.8 lumens
Efficiency: N/A
Efficacy: 82.6 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): 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



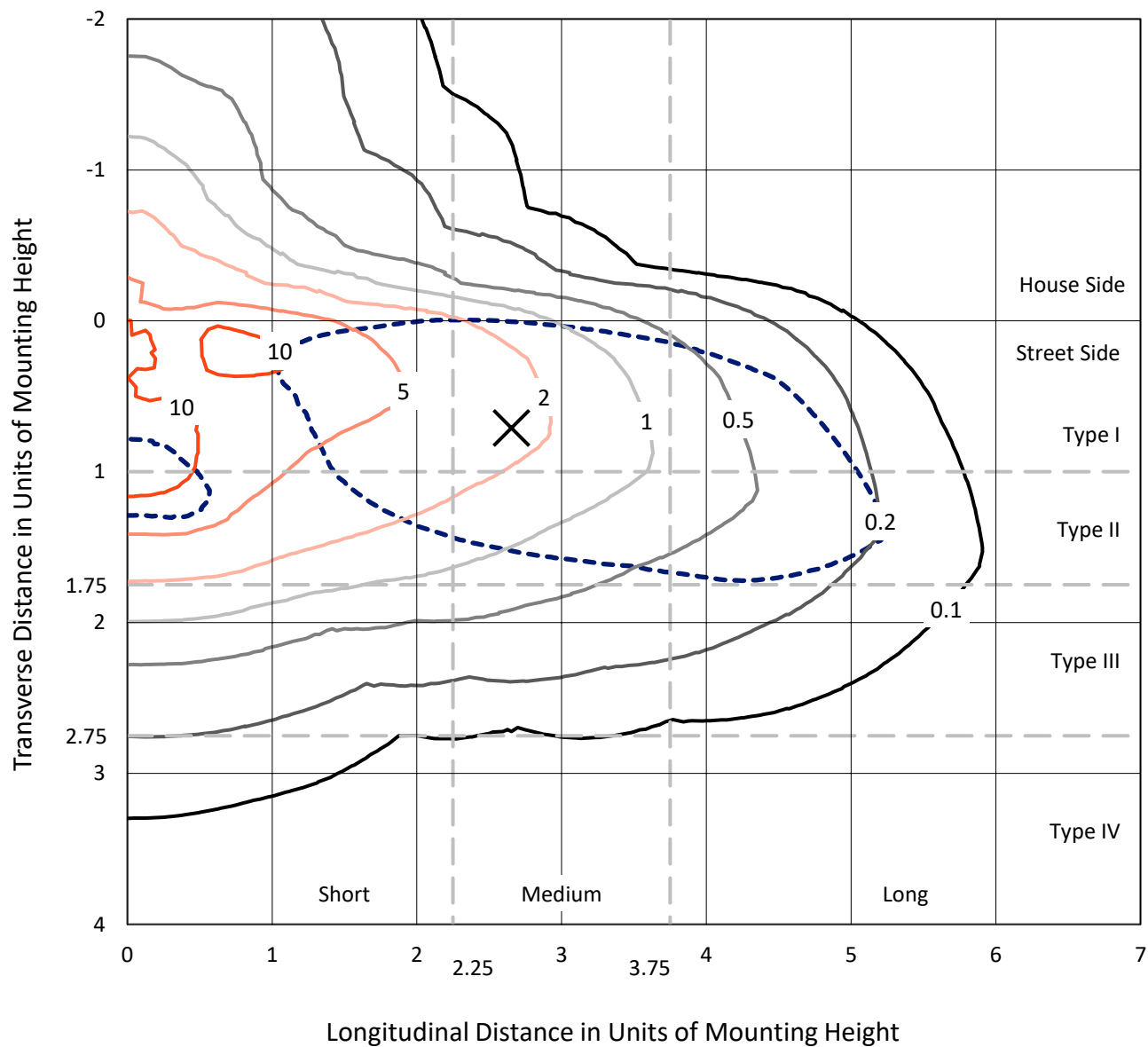
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



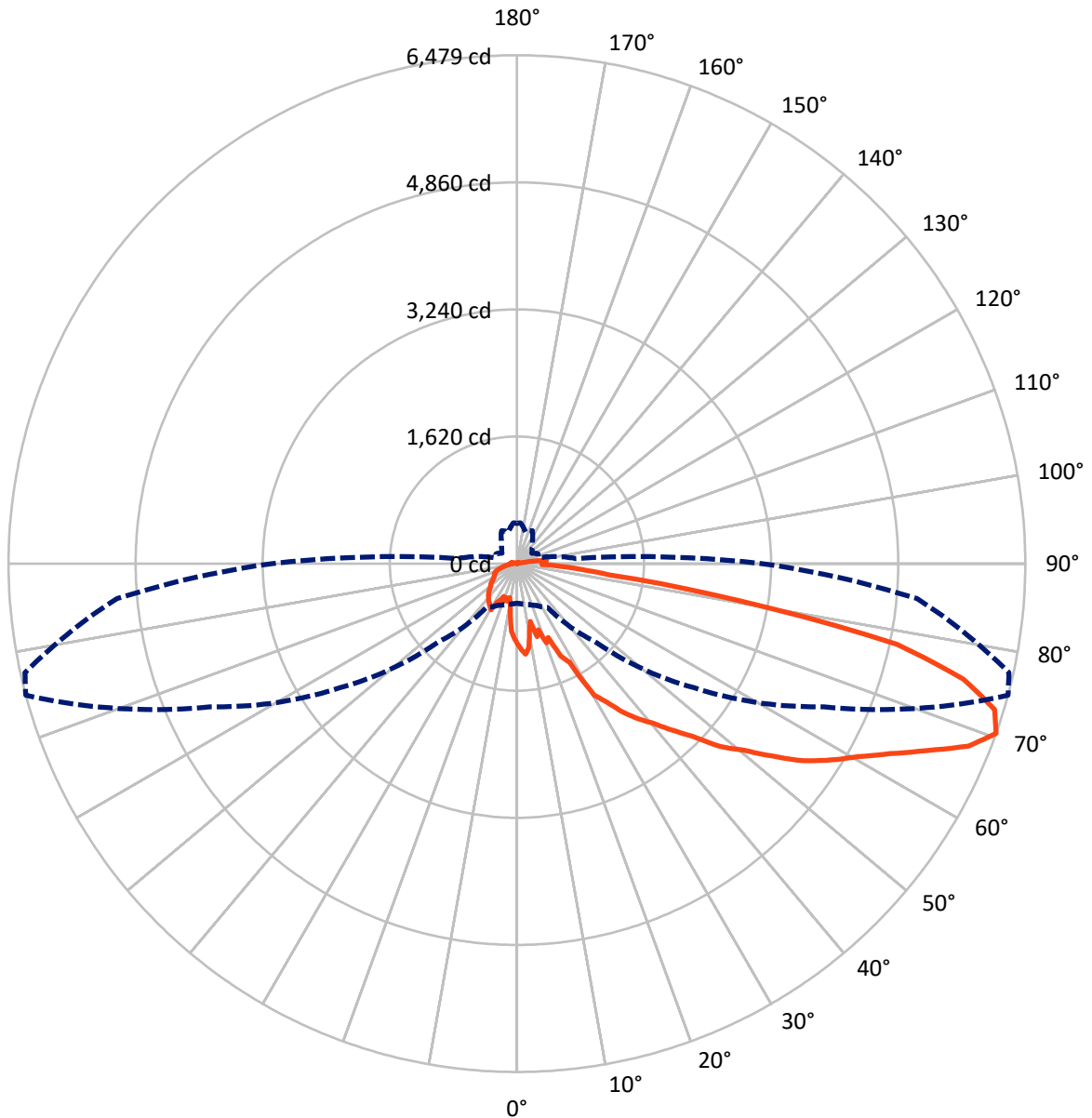
Based on 10 foot mounting height. Maximum calculated value = 15.9 fc

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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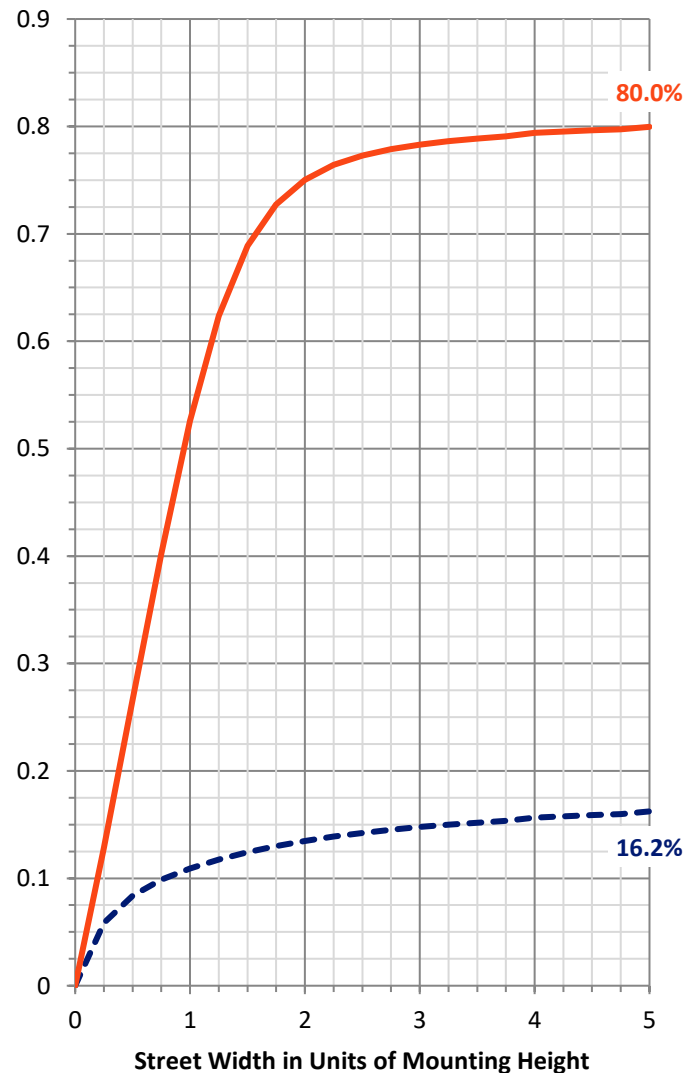
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1305.0	78.0	1383.0
	% Fixture	17.1	1.0	18.1
Street Side	Lumens	6152.0	98.8	6250.7
	% Fixture	80.6	1.3	81.9
Total	Lumens	7457.0	176.8	7633.8
	% Fixture	97.7	2.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	1.1
10°-20°	222.6	2.9
20°-30°	402.0	5.3
30°-40°	821.4	10.8
40°-50°	1289.9	16.9
50°-60°	1584.0	20.7
60°-70°	1575.4	20.6
70°-80°	1165.2	15.3
80°-90°	311.3	4.1
90°-100°	115.1	1.5
100°-110°	26.9	0.4
110°-120°	12.7	0.2
120°-130°	11.4	0.1
130°-140°	5.5	0.1
140°-150°	2.7	0.0
150°-160°	2.4	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	7457.0	97.7
0°-180°	7633.8	100.0

Coefficient of Utilization



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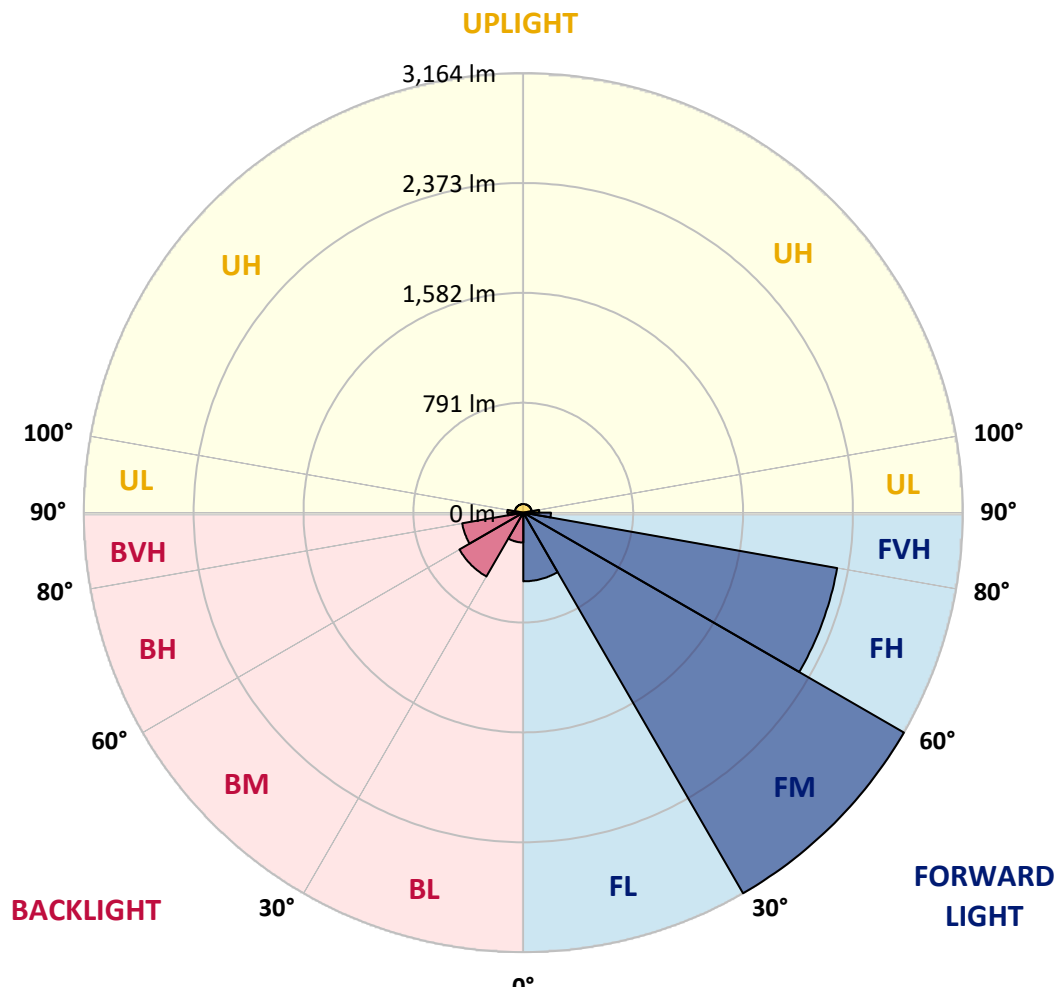
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	494.8	6.5			
FM	(30°-60°)	3164.3	41.5			
FH	(60°-80°)	2294.2	30.1			G2/5000
FVH	(80°-90°)	198.7	2.6			G2/225
BL	(0°-30°)	215.1	2.8	B1/500		
BM	(30°-60°)	531.0	7.0	B1/1000		
BH	(60°-80°)	446.4	5.8	B1/500		G1/500
BVH	(80°-90°)	112.6	1.5			G2/225
UL	(90°-100°)	115.1	1.5		U3/500	
UH	(100°-180°)	61.7	0.8		U3/500	

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°	1023.2	1023.2	1023.2	1023.2	1023.2	1023.2	1023.2	1023.2	1023.2	1023.2	1023.2
2.5°	1062.0	1121.7	1148.5	1178.3	1205.2	1190.3	1166.4	1130.6	1097.8	1085.9	1050.1
5°	1172.4	1166.4	1163.4	1154.5	1139.6	1112.7	1079.9	1208.2	1157.5	1136.6	1076.9
7.5°	1032.2	1196.2	1214.1	1232.0	1226.1	1193.3	1151.5	1035.2	1079.9	1053.1	978.5
10°	1261.9	1261.9	1255.9	1261.9	1193.3	1139.6	975.5	906.9	874.1	945.7	877.0
12.5°	1073.9	1169.4	1288.7	1312.6	1208.2	1059.0	990.4	957.6	754.7	745.8	799.5
15°	1249.9	1264.9	1267.8	1273.8	1029.2	1109.7	915.8	850.2	963.6	936.7	945.7
17.5°	1005.3	1020.2	1214.1	1202.2	1106.8	886.0	1071.0	960.6	886.0	853.2	841.3
20°	1264.9	1267.8	1258.9	1017.3	1068.0	1157.5	1002.3	972.5	1079.9	1076.9	1032.2
22.5°	1076.9	1079.9	1112.7	1226.1	1103.8	1169.4	1008.3	1214.1	1023.2	1026.2	796.5
25°	1440.9	1443.8	1414.0	1091.8	1241.0	1097.8	1223.1	1091.8	1306.6	1264.9	1166.4
27.5°	1512.5	1402.1	1288.7	1354.4	1184.3	1363.3	1163.4	1321.5	1420.0	1411.0	1425.9
30°	1918.2	1924.1	1846.6	1482.6	1387.2	1345.4	1342.4	1569.1	1945.0	1959.9	1712.3
32.5°	2598.3	2562.5	2180.7	1828.7	1494.6	1640.7	1506.5	1816.7	2103.1	2094.2	1834.6
35°	2908.6	2872.8	2729.6	2258.3	1727.2	1772.0	1700.4	1933.1	2320.9	2252.3	1957.0
37.5°	3171.1	3165.1	3045.8	2488.0	1962.9	2028.5	1816.7	2076.3	2508.8	2437.2	2082.2
40°	3397.8	3376.9	3272.5	2693.8	2204.6	2207.5	1962.9	2249.3	2675.9	2693.8	2204.6
42.5°	3585.8	3567.9	3481.3	2899.6	2347.7	2365.6	2118.0	2425.3	2899.6	2932.4	2395.5
45°	3663.3	3672.3	3612.6	3084.6	2476.0	2508.8	2303.0	2604.3	3138.3	3165.1	2565.5
47.5°	3720.0	3723.0	3708.1	3236.7	2613.2	2628.2	2485.0	2765.4	3484.3	3430.6	2765.4
50°	3591.7	3579.8	3594.7	3353.1	2732.6	2750.5	2637.1	2932.4	3731.9	3663.3	2974.2
52.5°	3254.6	3269.5	3424.7	3293.4	2771.4	2807.2	2780.3	3078.6	4075.0	4021.3	3272.5
55°	2407.4	2473.0	2920.5	3048.8	2768.4	2831.0	2911.6	3356.1	4436.0	4355.4	3526.1
57.5°	1948.0	1948.0	2210.5	2631.1	2616.2	2816.1	3045.8	3544.0	4722.3	4665.7	3779.7
60°	1563.2	1563.2	1706.4	2088.2	2320.9	2741.5	3183.0	3821.4	4993.8	4961.0	4003.4
62.5°	1226.1	1223.1	1342.4	1557.2	1903.3	2577.4	3254.6	4060.1	5333.9	5327.9	4361.4
65°	886.0	897.9	999.4	1133.6	1494.6	2270.2	3251.6	4274.9	5742.6	5760.5	4764.1
67.5°	656.3	662.3	718.9	817.4	1026.2	1882.4	3108.4	4424.0	6205.0	6175.1	5020.7
70°	504.2	513.1	537.0	587.7	683.1	1399.1	2762.4	4319.6	6479.4	6422.7	5116.1
72.5°	423.6	426.6	423.6	450.5	456.4	948.6	2213.5	3922.9	6366.1	6276.6	4853.6
75°	361.0	358.0	355.0	361.0	337.1	626.5	1587.0	3320.3	5876.8	5721.7	4286.8
77.5°	310.2	307.3	295.3	298.3	268.5	462.4	1082.9	2604.3	4952.0	4588.1	3221.8
80°	256.6	256.6	247.6	247.6	226.7	352.0	692.1	1795.9	2884.7	2595.3	1676.5
82.5°	199.9	196.9	196.9	202.9	193.9	274.5	453.4	894.9	1190.3	1115.7	784.6
85°	107.4	107.4	122.3	137.2	134.2	167.1	346.0	528.0	704.0	680.2	438.5
87.5°	32.8	32.8	35.8	44.7	47.7	89.5	217.8	256.6	319.2	352.0	346.0
90°	35.8	32.8	23.9	26.8	29.8	65.6	202.9	247.6	322.2	358.0	366.9
92.5°	41.8	38.8	23.9	23.9	29.8	53.7	193.9	241.6	352.0	387.8	396.8
95°	44.7	41.8	23.9	23.9	29.8	47.7	173.0	238.7	375.9	423.6	423.6
97.5°	41.8	38.8	17.9	20.9	26.8	41.8	134.2	196.9	262.5	289.4	334.1
100°	35.8	35.8	11.9	17.9	23.9	29.8	77.6	107.4	77.6	74.6	74.6
102.5°	32.8	32.8	11.9	14.9	17.9	20.9	35.8	56.7	17.9	20.9	26.8
105°	32.8	35.8	8.9	11.9	11.9	11.9	17.9	29.8	14.9	17.9	26.8
107.5°	32.8	35.8	8.9	8.9	11.9	8.9	8.9	11.9	14.9	17.9	29.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
112.5°	20.9	20.9	6.0	8.9	8.9	8.9	6.0	8.9	14.9	20.9	29.8
115°	14.9	11.9	6.0	8.9	6.0	8.9	6.0	8.9	14.9	20.9	26.8
117.5°	11.9	8.9	6.0	6.0	6.0	6.0	3.0	8.9	17.9	23.9	32.8
120°	11.9	11.9	6.0	6.0	6.0	6.0	3.0	8.9	26.8	29.8	41.8
122.5°	11.9	11.9	6.0	6.0	6.0	6.0	3.0	6.0	23.9	32.8	44.7
125°	11.9	11.9	6.0	6.0	6.0	6.0	3.0	6.0	20.9	29.8	38.8
127.5°	11.9	11.9	6.0	3.0	6.0	6.0	6.0	6.0	17.9	23.9	32.8
130°	11.9	11.9	6.0	3.0	6.0	6.0	6.0	6.0	14.9	17.9	26.8
132.5°	8.9	8.9	6.0	3.0	6.0	3.0	3.0	6.0	11.9	14.9	20.9
135°	6.0	6.0	6.0	3.0	6.0	3.0	3.0	3.0	6.0	8.9	14.9
137.5°	3.0	6.0	3.0	3.0	6.0	3.0	3.0	3.0	3.0	3.0	6.0
140°	3.0	3.0	3.0	3.0	6.0	3.0	3.0	3.0	3.0	3.0	3.0
142.5°	3.0	3.0	3.0	3.0	6.0	6.0	3.0	3.0	3.0	3.0	3.0
145°	3.0	3.0	3.0	3.0	8.9	6.0	3.0	3.0	3.0	3.0	3.0
147.5°	3.0	3.0	3.0	11.9	8.9	6.0	3.0	3.0	3.0	3.0	3.0
150°	14.9	14.9	14.9	11.9	8.9	6.0	8.9	3.0	3.0	3.0	3.0
152.5°	14.9	14.9	17.9	8.9	6.0	3.0	3.0	11.9	8.9	6.0	6.0
155°	11.9	8.9	8.9	3.0	3.0	3.0	3.0	3.0	8.9	11.9	11.9
157.5°	3.0	3.0	6.0	3.0	3.0	3.0	3.0	3.0	6.0	3.0	3.0
160°	0.0	0.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1023.2	1023.2	1023.2	1023.2	1023.2	1023.2	1023.2	1023.2	1023.2	1023.2	1023.2
2.5°	1029.2	1005.3	948.6	906.9	856.2	811.4	772.6	686.1	671.2	662.3	659.3
5°	1029.2	978.5	868.1	733.9	629.4	605.6	593.6	593.6	587.7	590.7	593.6
7.5°	912.8	844.2	677.2	572.8	590.7	590.7	593.6	578.7	531.0	537.0	528.0
10°	799.5	713.0	510.1	465.4	510.1	513.1	581.7	608.6	617.5	620.5	620.5
12.5°	736.8	614.5	441.5	456.4	411.7	471.3	554.9	620.5	563.8	534.0	534.0
15°	847.2	727.9	495.2	399.7	405.7	471.3	420.6	587.7	608.6	614.5	614.5
17.5°	760.7	641.4	453.4	411.7	453.4	387.8	474.3	540.0	516.1	489.2	486.3
20°	912.8	757.7	507.1	402.7	399.7	459.4	420.6	441.5	551.9	554.9	551.9
22.5°	710.0	605.6	450.5	456.4	399.7	438.5	414.7	456.4	435.5	432.6	435.5
25°	984.4	784.6	519.1	393.8	417.6	387.8	417.6	384.8	462.4	468.4	471.3
27.5°	1205.2	936.7	551.9	426.6	363.9	396.8	372.9	384.8	358.0	372.9	378.9
30°	1434.9	1091.8	674.2	471.3	384.8	340.1	346.0	343.1	387.8	384.8	378.9
32.5°	1509.5	1112.7	644.4	492.2	381.8	343.1	316.2	337.1	369.9	396.8	399.7
35°	1584.1	1127.6	620.5	471.3	372.9	322.2	310.2	346.0	372.9	375.9	384.8
37.5°	1670.6	1139.6	596.6	441.5	346.0	316.2	307.3	322.2	381.8	375.9	366.9
40°	1751.1	1145.5	566.8	414.7	316.2	310.2	286.4	322.2	337.1	349.0	355.0
42.5°	1894.3	1181.3	542.9	390.8	295.3	295.3	274.5	301.3	346.0	352.0	349.0
45°	1998.7	1169.4	510.1	369.9	274.5	262.5	268.5	328.1	349.0	384.8	378.9
47.5°	2147.9	1199.2	471.3	337.1	256.6	241.6	253.6	319.2	358.0	384.8	390.8
50°	2294.0	1193.3	438.5	310.2	244.6	229.7	280.4	310.2	352.0	396.8	396.8
52.5°	2485.0	1202.2	423.6	286.4	229.7	229.7	289.4	313.2	361.0	390.8	390.8
55°	2655.0	1169.4	387.8	277.4	226.7	220.8	292.3	325.2	363.9	390.8	393.8
57.5°	2780.3	1103.8	361.0	268.5	223.7	226.7	292.3	352.0	340.1	390.8	399.7
60°	2917.5	1032.2	337.1	268.5	223.7	235.7	301.3	372.9	372.9	408.7	408.7
62.5°	3105.5	987.4	325.2	271.5	217.8	244.6	328.1	405.7	375.9	432.6	435.5
65°	3263.6	927.8	316.2	283.4	220.8	256.6	343.1	432.6	393.8	459.4	456.4
67.5°	3266.6	838.3	304.3	295.3	223.7	265.5	343.1	450.5	414.7	483.3	474.3
70°	3123.4	748.8	286.4	295.3	232.7	274.5	343.1	462.4	417.6	522.1	513.1
72.5°	2816.1	611.5	259.5	283.4	247.6	286.4	361.0	459.4	417.6	563.8	554.9
75°	2395.5	489.2	223.7	259.5	247.6	301.3	372.9	456.4	402.7	537.0	519.1
77.5°	1822.7	399.7	187.9	226.7	235.7	307.3	372.9	450.5	390.8	501.2	489.2
80°	939.7	280.4	152.1	193.9	220.8	301.3	369.9	426.6	349.0	444.5	438.5
82.5°	516.1	205.8	122.3	143.2	185.0	283.4	358.0	384.8	307.3	363.9	349.0
85°	334.1	149.2	98.4	116.3	155.1	235.7	301.3	304.3	217.8	262.5	247.6
87.5°	250.6	86.5	62.6	71.6	107.4	131.3	190.9	196.9	137.2	161.1	152.1
90°	262.5	86.5	65.6	74.6	95.5	98.4	140.2	149.2	107.4	122.3	122.3
92.5°	280.4	86.5	68.6	77.6	86.5	77.6	110.4	122.3	89.5	98.4	95.5
95°	286.4	83.5	74.6	80.5	77.6	62.6	89.5	98.4	74.6	74.6	74.6
97.5°	208.8	59.7	74.6	80.5	71.6	50.7	68.6	77.6	47.7	38.8	38.8
100°	56.7	29.8	71.6	77.6	62.6	41.8	59.7	59.7	29.8	20.9	20.9
102.5°	23.9	23.9	62.6	68.6	47.7	26.8	41.8	41.8	20.9	8.9	8.9
105°	23.9	17.9	44.7	50.7	32.8	14.9	20.9	23.9	14.9	8.9	8.9
107.5°	23.9	17.9	20.9	26.8	14.9	11.9	11.9	11.9	8.9	8.9	8.9



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CATALOG NUMBER: SDL-PA1-90-730-U-T2R-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	29.8	20.9	11.9	14.9	11.9	8.9	8.9	8.9	11.9	26.8	26.8
115°	26.8	17.9	11.9	11.9	8.9	8.9	6.0	6.0	11.9	32.8	32.8
117.5°	29.8	20.9	11.9	11.9	8.9	6.0	6.0	6.0	14.9	38.8	38.8
120°	35.8	23.9	11.9	8.9	6.0	6.0	6.0	6.0	17.9	41.8	41.8
122.5°	38.8	26.8	11.9	8.9	6.0	3.0	6.0	8.9	20.9	41.8	41.8
125°	32.8	23.9	11.9	8.9	6.0	3.0	6.0	8.9	20.9	38.8	41.8
127.5°	29.8	20.9	11.9	6.0	6.0	3.0	3.0	8.9	17.9	29.8	35.8
130°	23.9	17.9	8.9	6.0	6.0	3.0	3.0	6.0	17.9	26.8	32.8
132.5°	20.9	14.9	8.9	6.0	6.0	3.0	3.0	6.0	17.9	23.9	23.9
135°	14.9	11.9	6.0	6.0	6.0	3.0	6.0	3.0	11.9	20.9	20.9
137.5°	8.9	6.0	6.0	6.0	6.0	3.0	3.0	3.0	8.9	11.9	11.9
140°	3.0	3.0	6.0	6.0	6.0	3.0	3.0	3.0	6.0	6.0	6.0
142.5°	3.0	3.0	6.0	6.0	6.0	3.0	3.0	3.0	6.0	6.0	6.0
145°	3.0	3.0	3.0	6.0	6.0	3.0	3.0	3.0	3.0	3.0	6.0
147.5°	3.0	3.0	3.0	6.0	3.0	3.0	3.0	3.0	3.0	3.0	6.0
150°	3.0	3.0	3.0	6.0	6.0	3.0	3.0	6.0	6.0	6.0	6.0
152.5°	3.0	3.0	6.0	6.0	3.0	3.0	3.0	6.0	6.0	6.0	6.0
155°	8.9	8.9	6.0	6.0	3.0	3.0	0.0	3.0	6.0	6.0	6.0
157.5°	3.0	3.0	6.0	3.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0
160°	3.0	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0
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



Report Generated By 670245982



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110°	29.8	29.8	6.0	8.9	8.9	8.9	6.0	8.9	14.9	20.9	29.8
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110°		26.8	17.9	11.9	14.9	11.9	8.9	8.9	8.9	8.9	11.9	14.9
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(END OF REPORT)