

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: P561351

Luminaire Tested: **SDL-PA1-90-830-U-T2R**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-20)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-90-830-U-T2R
Description: Springdale
(1) 80 CRI, 3000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II R OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8049.6 lumens
Efficiency: N/A
Efficacy: 87.1 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 - U0 - 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

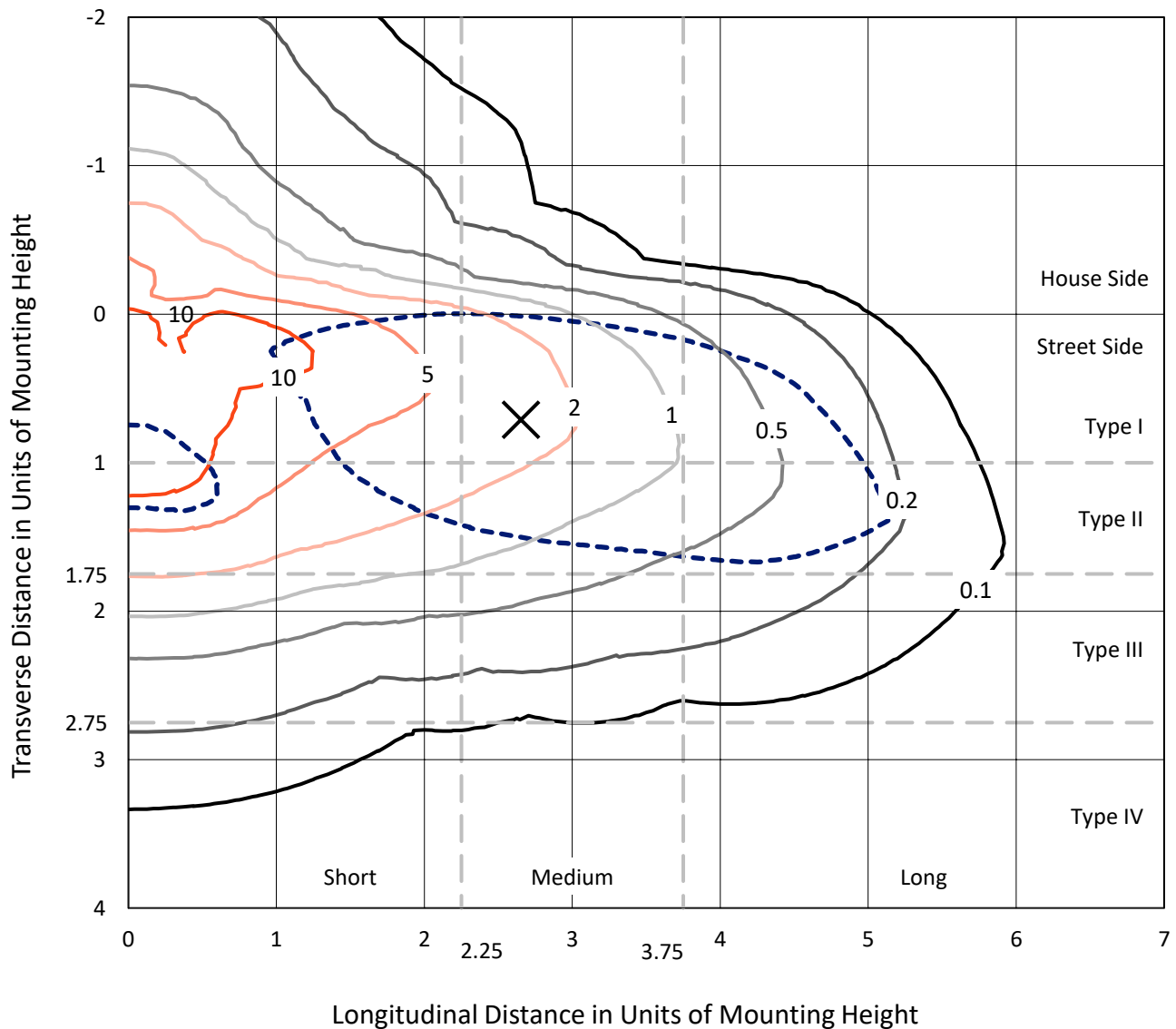


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

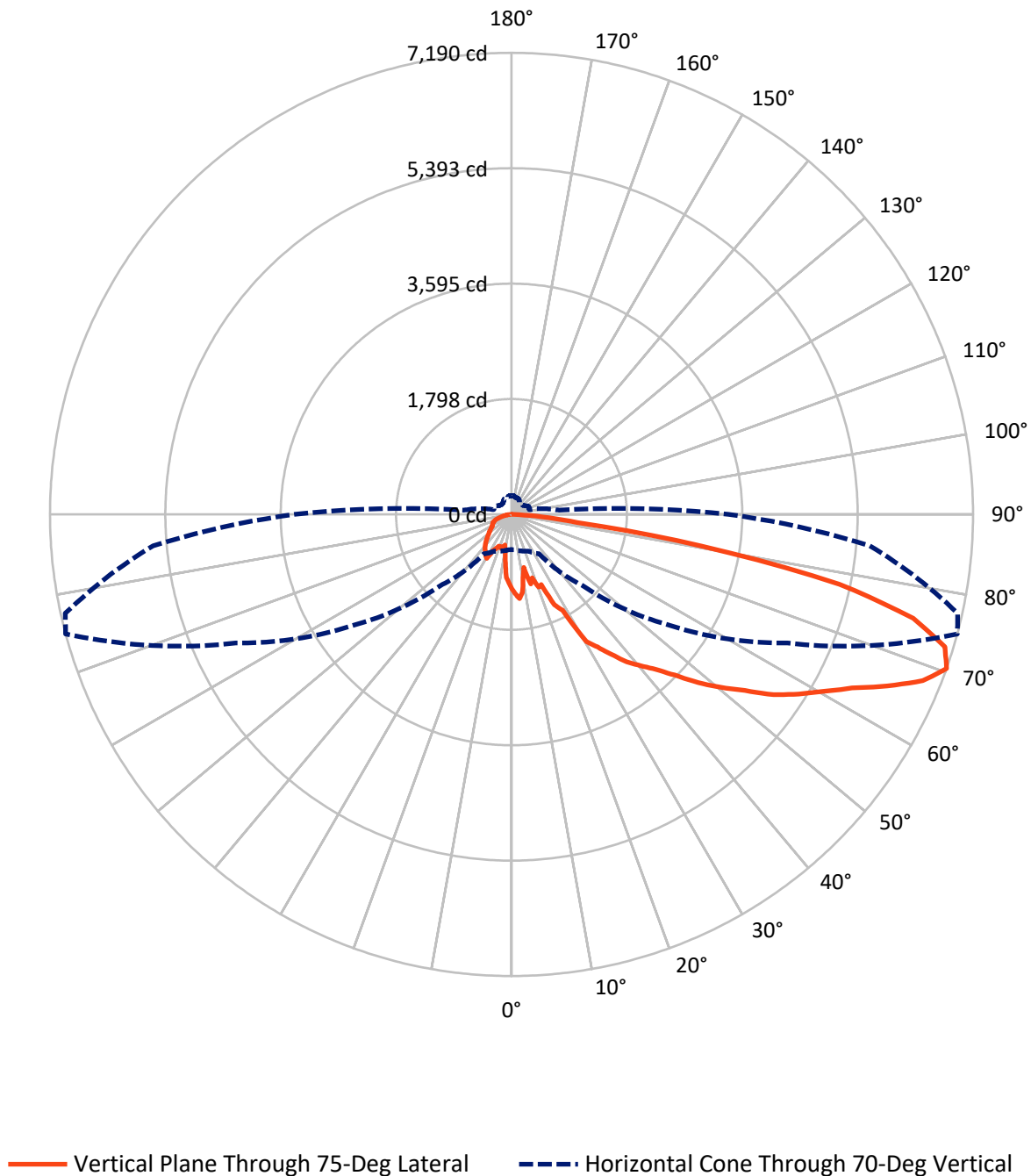


Based on 10 foot mounting height. Maximum calculated value = 18.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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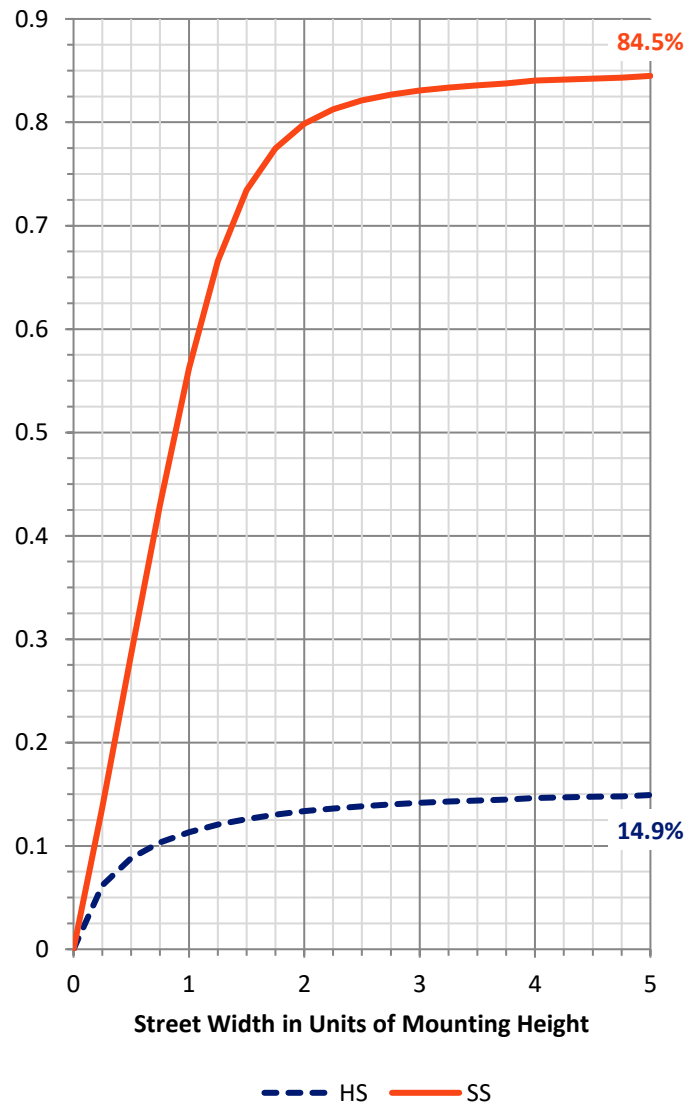
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1224.5	0.0	1224.5
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	6825.1	0.0	6825.1
	% Fixture	84.8	0.0	84.8
Total	Lumens	8049.6	0.0	8049.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.2	1.2
10°-20°	255.7	3.2
20°-30°	467.5	5.8
30°-40°	949.1	11.8
40°-50°	1456.6	18.1
50°-60°	1756.0	21.8
60°-70°	1698.2	21.1
70°-80°	1178.0	14.6
80°-90°	192.4	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8049.6	100.0
0°-180°	8049.6	100.0

Coefficient of Utilization



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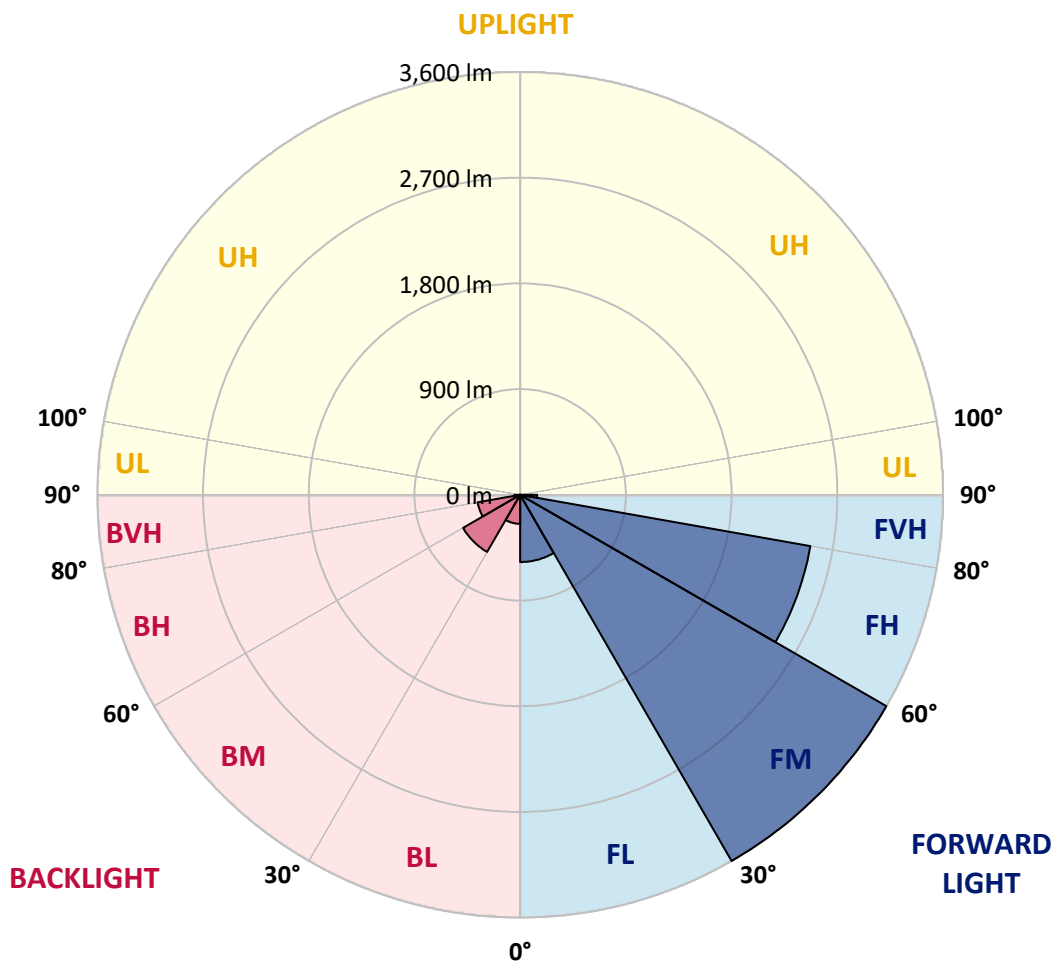
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	572.2	7.1			
FM	(30°-60°)	3600.0	44.7			
FH	(60°-80°)	2508.9	31.2			G2/5000
FVH	(80°-90°)	144.1	1.8			G2/225
BL	(0°-30°)	247.2	3.1	B1/500		
BM	(30°-60°)	561.7	7.0	B1/1000		
BH	(60°-80°)	367.3	4.6	B1/500		G1/500
BVH	(80°-90°)	48.3	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1163.3	1163.3	1163.3	1163.3	1163.3	1163.3	1163.3	1163.3	1163.3	1163.3	1163.3
2.5°	1207.7	1323.2	1266.9	1332.0	1364.6	1343.9	1326.1	1281.7	1243.2	1228.4	1190.0
5°	1332.0	1329.1	1314.3	1308.4	1281.7	1249.2	1222.5	1370.5	1317.2	1290.6	1222.5
7.5°	1181.1	1281.7	1355.7	1394.2	1394.2	1355.7	1314.3	1133.7	1225.5	1201.8	1104.1
10°	1483.0	1483.0	1480.0	1483.0	1216.6	1281.7	1101.2	1024.2	991.6	1068.6	991.6
12.5°	1261.0	1370.5	1494.8	1539.2	1417.9	1210.7	1127.8	1083.4	849.5	831.8	879.1
15°	1483.0	1491.9	1503.7	1323.2	1124.8	1284.7	982.8	973.9	1124.8	1098.2	1110.0
17.5°	1190.0	1201.8	1459.3	1426.8	1308.4	973.9	1225.5	1095.2	1039.0	1003.5	1000.5
20°	1500.8	1506.7	1503.7	1127.8	1207.7	1326.1	1269.9	965.0	1210.7	1225.5	1240.3
22.5°	1269.9	1272.8	1287.6	1435.6	1222.5	1382.4	1145.6	1438.6	1187.0	1222.5	923.5
25°	1708.0	1708.0	1654.7	1293.6	1480.0	1261.0	1394.2	1237.3	1557.0	1515.6	1388.3
27.5°	1592.5	1580.7	1518.5	1601.4	1335.0	1595.5	1379.4	1554.0	1690.2	1631.0	1684.3
30°	2237.8	2252.6	2172.7	1663.6	1625.1	1530.4	1589.6	1841.2	2300.0	2267.4	2024.7
32.5°	2995.6	2856.5	2492.4	2154.9	1776.1	1867.8	1776.1	2172.7	2462.8	2468.7	2143.1
35°	3362.7	3350.8	3193.9	2542.7	2042.5	2042.5	1992.1	2267.4	2673.0	2634.5	2270.4
37.5°	3655.7	3638.0	3528.4	2874.3	2282.2	2270.4	2107.6	2412.5	2912.7	2815.0	2409.5
40°	3904.4	3880.7	3786.0	3105.1	2542.7	2486.5	2249.7	2578.2	3099.2	3108.1	2542.7
42.5°	4070.1	4061.2	3993.2	3315.3	2758.8	2658.2	2439.1	2791.4	3297.5	3347.9	2708.5
45°	4200.4	4197.4	4138.2	3546.2	2912.7	2815.0	2640.4	2951.2	3569.9	3599.5	2886.1
47.5°	4215.2	4227.0	4227.0	3661.6	3019.3	2954.2	2847.6	3093.3	3916.2	3854.0	3093.3
50°	4061.2	4073.1	4147.1	3854.0	3111.1	3069.6	3025.2	3265.0	4232.9	4141.2	3312.3
52.5°	3667.6	3694.2	3895.5	3759.3	3158.4	3155.5	3191.0	3487.0	4555.6	4457.9	3602.4
55°	2821.0	2838.7	3339.0	3481.1	3143.6	3176.2	3315.3	3762.3	4955.2	4869.4	3907.3
57.5°	2154.9	2205.3	2519.0	2954.2	2980.8	3158.4	3395.2	3954.7	5277.8	5192.0	4188.5
60°	1734.6	1770.1	1953.7	2335.5	2631.5	3081.5	3504.8	4194.5	5591.6	5550.2	4490.5
62.5°	1358.7	1382.4	1509.6	1761.3	2137.2	2900.9	3572.8	4454.9	5952.7	5932.0	4884.2
65°	973.9	997.6	1110.0	1275.8	1651.7	2560.5	3540.3	4703.6	6438.2	6417.5	5266.0
67.5°	710.4	716.3	790.3	902.8	1172.2	2072.1	3380.4	4860.5	6911.8	6870.4	5559.1
70°	547.6	553.5	589.1	630.5	748.9	1568.8	3007.5	4742.1	7190.1	7119.0	5603.5
72.5°	444.0	444.0	458.8	479.5	512.1	1024.2	2362.2	4277.3	7059.8	6920.7	5233.4
75°	373.0	373.0	381.9	375.9	358.2	639.4	1642.9	3572.8	6464.8	6290.2	4555.6
77.5°	313.8	310.8	310.8	313.8	278.2	435.1	1003.5	2752.9	5224.6	5055.8	3377.5
80°	257.5	257.5	257.5	257.5	227.9	310.8	597.9	1826.4	3001.5	2619.7	1548.1
82.5°	189.4	192.4	201.3	201.3	189.4	227.9	310.8	763.7	1027.2	908.7	547.6
85°	88.8	91.8	118.4	124.3	121.4	112.5	162.8	343.4	479.5	435.1	127.3
87.5°	3.0	3.0	11.8	26.6	23.7	17.8	32.6	47.4	17.8	20.7	14.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	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):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1163.3	1163.3	1163.3	1163.3	1163.3	1163.3	1163.3	1163.3	1163.3	1163.3	1163.3
2.5°	1163.3	1136.7	1074.5	1021.2	965.0	926.5	840.7	778.5	745.9	740.0	748.9
5°	1169.2	1110.0	985.7	828.8	710.4	680.8	669.0	666.0	663.1	663.1	663.1
7.5°	1030.1	953.2	766.7	651.2	669.0	669.0	669.0	660.1	606.8	583.1	583.1
10°	908.7	808.1	571.3	526.9	529.9	556.5	627.5	701.5	716.3	719.3	722.3
12.5°	787.4	689.7	485.5	512.1	461.8	547.6	648.3	722.3	651.2	615.7	615.7
15°	991.6	852.5	562.4	449.9	455.9	547.6	494.3	669.0	716.3	719.3	722.3
17.5°	893.9	751.9	523.9	473.6	500.3	417.4	565.4	633.5	583.1	577.2	571.3
20°	1086.4	893.9	547.6	470.7	467.7	506.2	479.5	479.5	651.2	651.2	651.2
22.5°	805.1	663.1	532.8	529.9	447.0	500.3	476.6	532.8	512.1	503.2	503.2
25°	1181.1	935.4	583.1	464.7	479.5	441.1	491.4	438.1	541.7	547.6	547.6
27.5°	1417.9	1098.2	633.5	515.1	441.1	473.6	405.5	441.1	417.4	420.3	420.3
30°	1690.2	1287.6	787.4	538.7	452.9	390.7	402.6	381.9	452.9	444.0	441.1
32.5°	1764.2	1299.5	757.8	571.3	441.1	393.7	364.1	393.7	420.3	458.8	458.8
35°	1850.1	1311.3	716.3	544.7	432.2	367.1	361.1	393.7	426.3	414.4	414.4
37.5°	1930.0	1320.2	683.8	512.1	396.7	358.2	358.2	364.1	396.7	378.9	378.9
40°	2021.7	1323.2	645.3	476.6	367.1	352.3	331.5	337.5	340.4	328.6	325.6
42.5°	2125.3	1320.2	600.9	444.0	340.4	328.6	313.8	313.8	322.7	319.7	316.7
45°	2237.8	1317.2	553.5	405.5	310.8	296.0	287.1	322.7	337.5	337.5	331.5
47.5°	2374.0	1317.2	509.1	361.1	290.1	266.4	260.5	299.0	328.6	334.5	340.4
50°	2530.9	1311.3	467.7	328.6	269.4	248.6	257.5	296.0	319.7	328.6	325.6
52.5°	2735.1	1299.5	432.2	301.9	254.6	227.9	242.7	287.1	316.7	319.7	316.7
55°	2912.7	1258.0	396.7	290.1	242.7	216.1	233.8	284.2	310.8	310.8	310.8
57.5°	3063.7	1198.8	367.1	281.2	239.8	213.1	230.9	281.2	299.0	307.8	307.8
60°	3247.2	1124.8	346.3	278.2	236.8	210.2	227.9	278.2	293.0	304.9	304.9
62.5°	3436.7	1062.7	334.5	278.2	227.9	213.1	227.9	278.2	290.1	304.9	301.9
65°	3590.6	982.8	322.7	284.2	225.0	213.1	227.9	278.2	287.1	301.9	301.9
67.5°	3581.7	873.2	307.8	299.0	227.9	216.1	227.9	275.3	281.2	301.9	296.0
70°	3380.4	745.9	284.2	296.0	236.8	216.1	225.0	266.4	269.4	296.0	287.1
72.5°	3016.3	603.9	251.6	278.2	236.8	219.0	219.0	254.6	254.6	284.2	266.4
75°	2525.0	464.7	207.2	245.7	225.0	225.0	207.2	239.8	233.8	251.6	233.8
77.5°	1882.6	352.3	159.8	204.2	204.2	222.0	198.3	222.0	213.1	216.1	207.2
80°	784.4	213.1	121.4	159.8	174.6	216.1	189.4	201.3	180.6	180.6	174.6
82.5°	325.6	136.2	82.9	100.6	118.4	192.4	180.6	171.7	148.0	136.2	127.3
85°	118.4	74.0	56.2	68.1	77.0	133.2	130.2	109.5	85.8	94.7	77.0
87.5°	8.9	11.8	11.8	14.8	14.8	17.8	29.6	29.6	17.8	14.8	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P561351

CATALOG NUMBER: SDL-PA1-90-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)