

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: P560616

Luminaire Tested: **SDL-PA1-50-827-U-5WQ-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P560616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-22)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-50-827-U-5WQ-A
Description: Springdale
(1) 80 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND CLEAR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4560.2 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type V - Short
BUG Rating: B3 - U3 - G2

Input Watts (W): 52.4
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

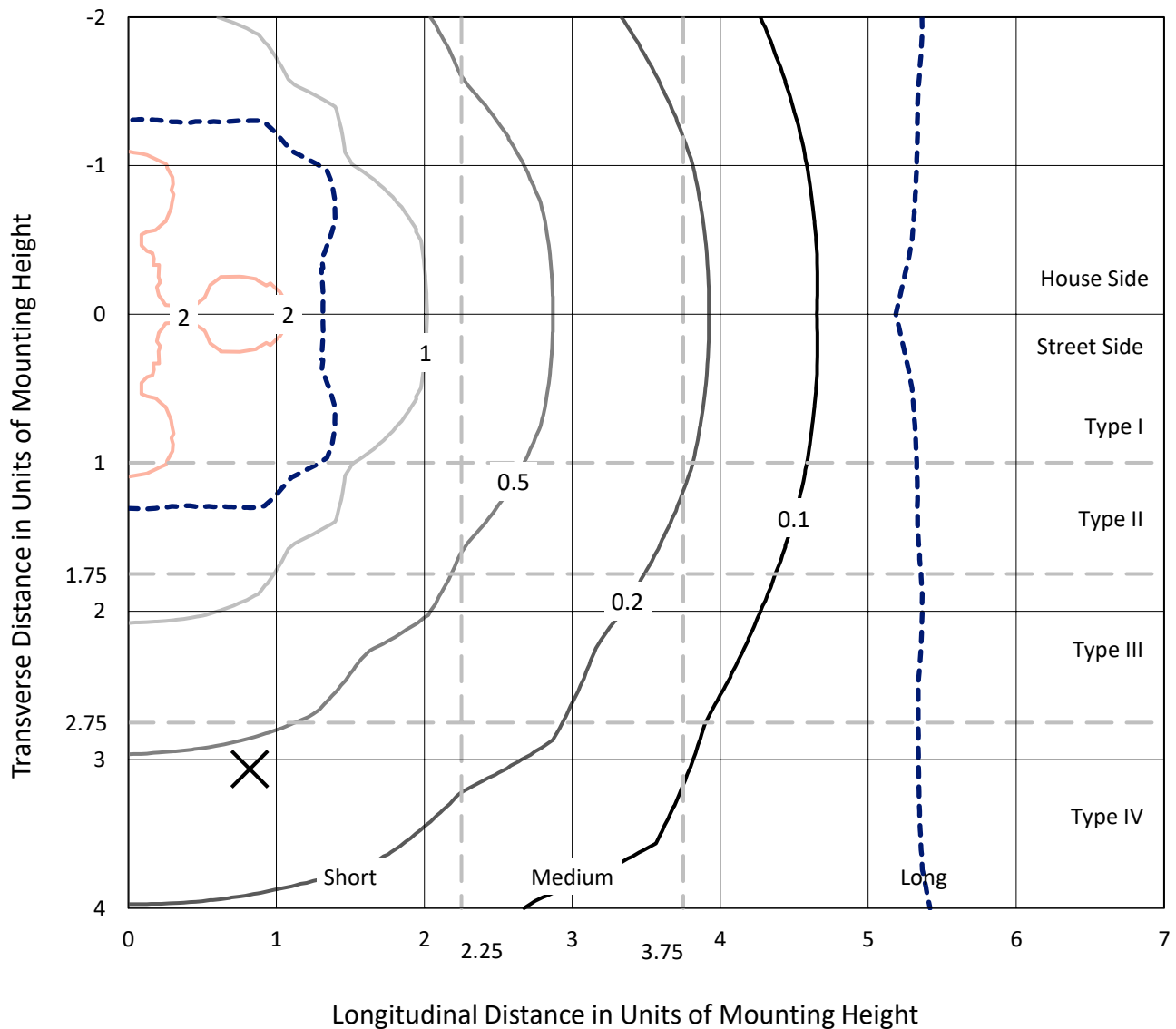


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

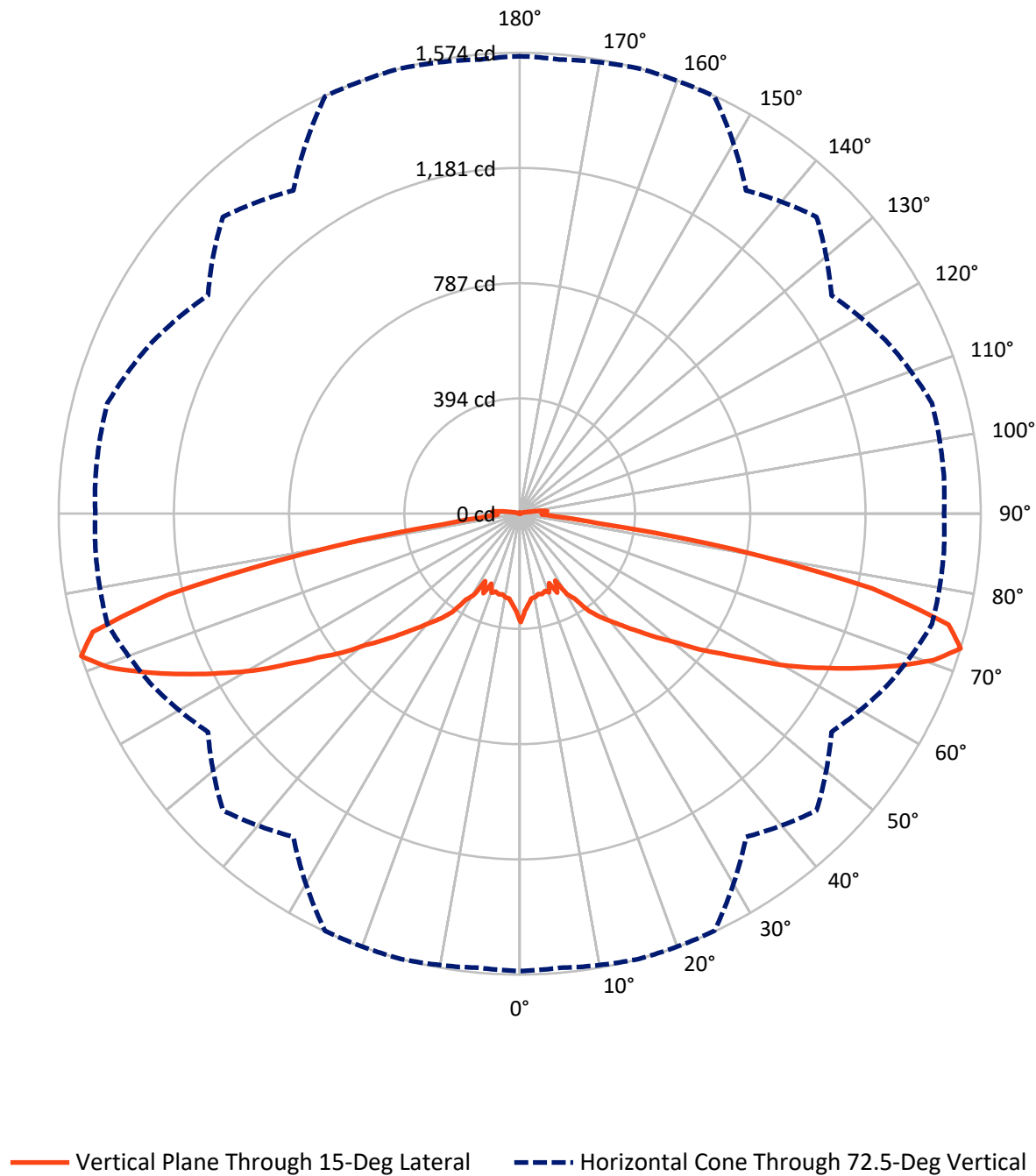


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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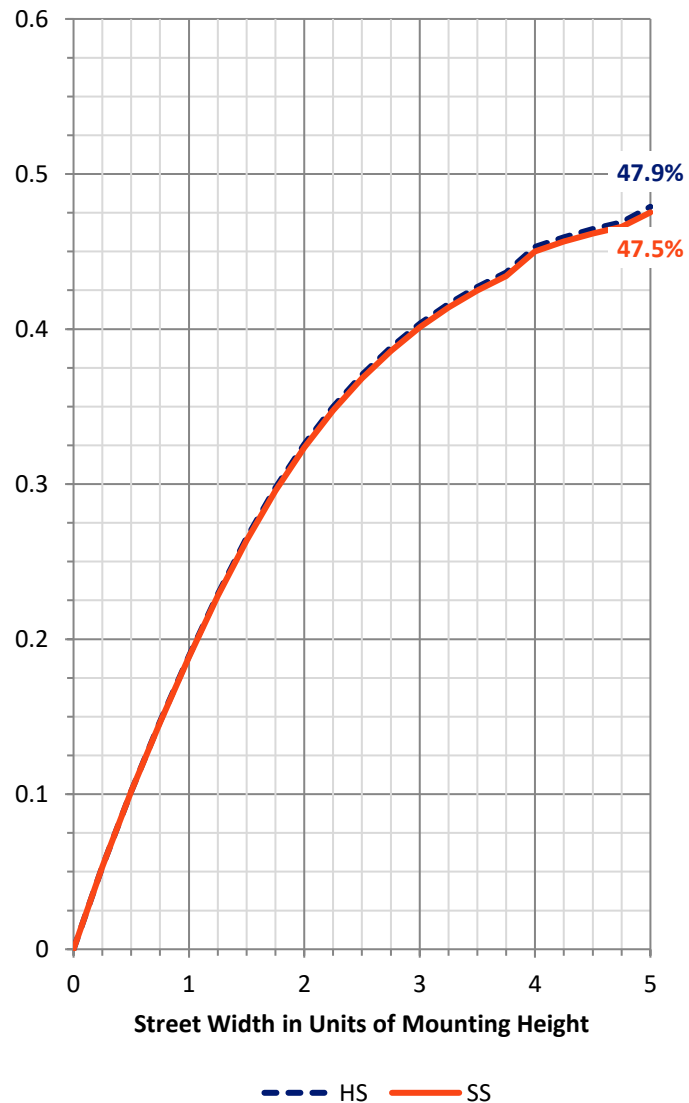
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2210.9	69.2	2280.1
	% Fixture	48.5	1.5	50.0
Street Side	Lumens	2210.9	69.2	2280.1
	% Fixture	48.5	1.5	50.0
Total	Lumens	4421.8	138.4	4560.2
	% Fixture	97.0	3.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.2	0.6
10°-20°	67.3	1.5
20°-30°	118.1	2.6
30°-40°	228.0	5.0
40°-50°	396.4	8.7
50°-60°	698.5	15.3
60°-70°	1180.0	25.9
70°-80°	1387.2	30.4
80°-90°	317.1	7.0
90°-100°	104.6	2.3
100°-110°	24.7	0.5
110°-120°	4.0	0.1
120°-130°	3.2	0.1
130°-140°	1.3	0.0
140°-150°	0.3	0.0
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4421.8	97.0
0°-180°	4560.2	100.0



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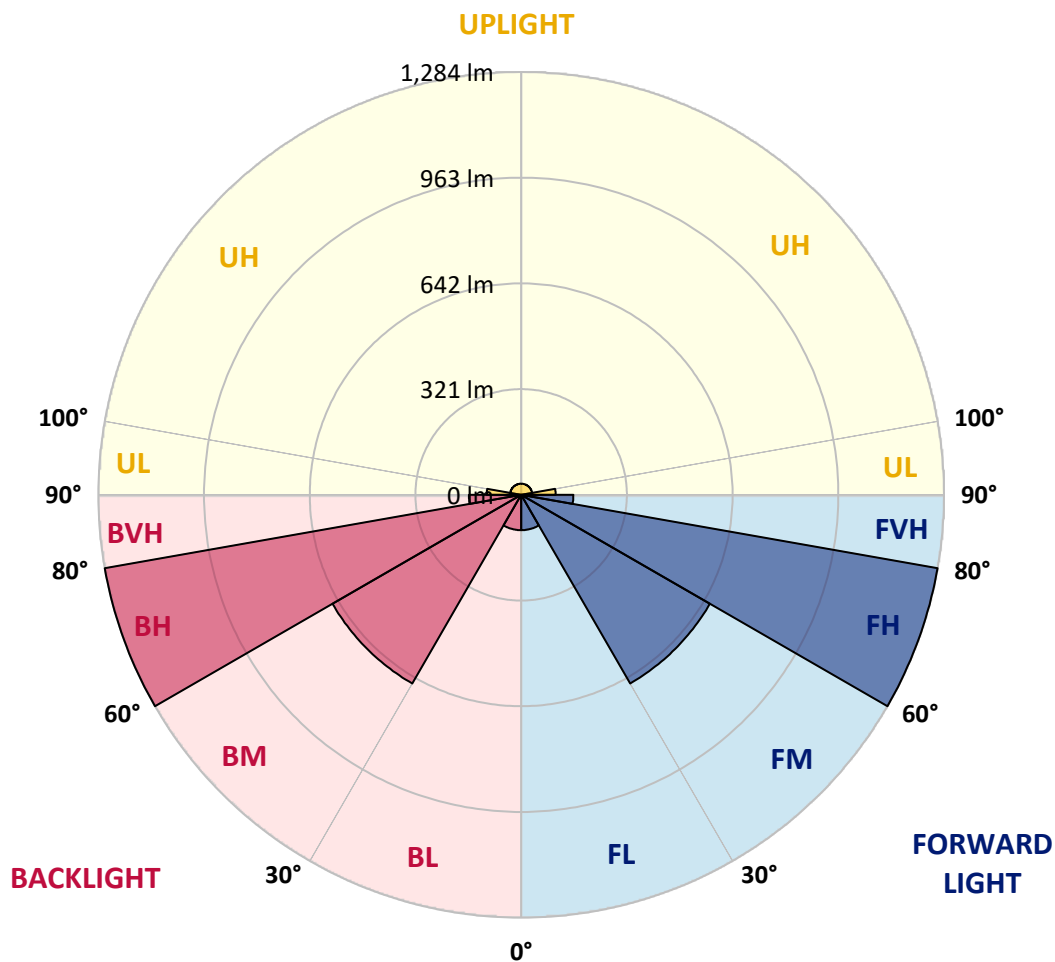
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	107.3	2.4			
FM	(30°-60°)	661.4	14.5			
FH	(60°-80°)	1283.6	28.1			G1/1800
FVH	(80°-90°)	158.5	3.5			G2/225
BL	(0°-30°)	107.3	2.4	B0/110		
BM	(30°-60°)	661.4	14.5	B1/1000		
BH	(60°-80°)	1283.6	28.1	B3/2500		G1/1800
BVH	(80°-90°)	158.5	3.5			G2/225
UL	(90°-100°)	104.6	2.3		U3/500	
UH	(100°-180°)	33.8	0.7		U2/50	

BUG Rating: B3-U3-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	370.8	370.8	370.8	370.8	370.8	370.8	370.8	370.8	370.8	370.8	370.8
2.5°	327.9	334.7	333.0	345.0	355.3	358.8	365.6	365.6	367.3	367.3	367.3
5°	310.7	310.7	310.7	310.7	310.7	309.0	315.8	346.7	357.0	358.8	357.0
7.5°	269.5	278.1	291.8	297.0	302.1	300.4	297.0	278.1	307.3	310.7	312.4
10°	290.1	290.1	290.1	286.7	272.9	260.9	247.2	233.5	238.6	269.5	269.5
12.5°	257.5	255.8	281.5	284.9	259.2	226.6	216.3	221.4	206.0	235.2	235.2
15°	290.1	290.1	284.9	267.8	214.6	226.6	192.3	194.0	219.7	254.1	254.1
17.5°	247.2	248.9	278.1	260.9	233.5	182.0	212.9	192.3	197.4	216.3	218.0
20°	295.2	295.2	286.7	223.2	219.7	226.6	195.7	190.5	219.7	254.1	255.8
22.5°	254.1	254.1	257.5	259.2	226.6	223.2	195.7	221.4	207.7	207.7	231.7
25°	307.3	307.3	298.7	236.9	248.9	216.3	226.6	207.7	254.1	279.8	279.8
27.5°	269.5	269.5	259.2	269.5	240.3	257.5	226.6	245.5	272.9	329.6	333.0
30°	327.9	327.9	319.3	267.8	266.1	250.6	252.3	284.9	351.9	387.9	387.9
32.5°	398.2	400.0	346.7	307.3	269.5	288.4	274.7	324.4	367.3	405.1	406.8
35°	427.4	427.4	408.5	357.0	293.5	303.8	298.7	343.3	394.8	425.7	425.7
37.5°	461.8	461.8	448.0	382.8	322.7	336.4	312.4	369.1	425.7	453.2	449.7
40°	497.8	492.7	484.1	410.3	353.6	357.0	336.4	396.5	454.9	482.4	482.4
42.5°	542.4	542.4	527.0	456.6	384.5	389.7	358.8	430.9	497.8	530.4	532.1
45°	592.2	590.5	575.0	508.1	422.3	430.9	396.5	477.2	551.0	581.9	585.3
47.5°	650.6	650.6	631.7	563.0	470.3	478.9	439.4	523.6	616.2	643.7	647.1
50°	712.4	707.2	690.1	626.5	533.9	530.4	487.5	575.0	684.9	703.8	710.7
52.5°	784.5	777.6	770.7	698.6	604.2	605.9	549.3	630.0	763.9	774.2	777.6
55°	856.6	851.4	846.3	787.9	681.5	691.8	631.7	705.5	842.8	849.7	856.6
57.5°	937.2	942.4	942.4	887.5	769.0	794.8	721.0	799.9	937.2	932.1	930.4
60°	1054.0	1043.7	1055.7	1005.9	889.2	909.8	830.8	914.9	1028.2	1007.6	1002.5
62.5°	1148.4	1146.7	1160.4	1138.1	1000.8	1052.3	939.0	1024.8	1114.1	1096.9	1098.6
65°	1256.5	1254.8	1272.0	1261.7	1117.5	1182.7	1057.4	1148.4	1217.0	1198.2	1194.7
67.5°	1361.2	1366.4	1387.0	1400.7	1211.9	1296.0	1170.7	1265.1	1318.3	1287.4	1290.9
70°	1490.0	1481.4	1498.6	1500.3	1289.1	1378.4	1258.2	1338.9	1404.2	1383.6	1380.1
72.5°	1562.1	1556.9	1574.1	1572.4	1347.5	1433.3	1299.4	1385.3	1457.4	1453.9	1448.8
75°	1483.1	1490.0	1512.3	1543.2	1350.9	1464.2	1294.3	1354.4	1411.0	1392.1	1387.0
77.5°	1163.8	1177.6	1230.8	1330.3	1260.0	1452.2	1203.3	1187.9	1199.9	1177.6	1163.8
80°	618.0	630.0	743.3	913.2	1011.1	1261.7	1011.1	863.4	736.4	645.4	568.2
82.5°	197.4	212.9	266.1	420.6	638.6	878.9	585.3	331.3	228.3	195.7	183.7
85°	108.1	111.6	120.2	163.1	224.9	355.3	238.6	140.8	123.6	118.4	116.7
87.5°	91.0	92.7	75.5	92.7	108.1	111.6	108.1	77.2	79.0	87.5	85.8
90°	96.1	96.1	77.2	91.0	108.1	109.9	108.1	80.7	79.0	92.7	91.0
92.5°	104.7	104.7	87.5	97.8	120.2	116.7	116.7	84.1	87.5	99.6	99.6
95°	111.6	109.9	94.4	99.6	127.0	130.5	127.0	89.3	94.4	108.1	108.1
97.5°	82.4	79.0	68.7	89.3	120.2	137.3	127.0	84.1	73.8	82.4	80.7
100°	39.5	37.8	36.0	66.9	94.4	104.7	91.0	60.1	32.6	20.6	20.6
102.5°	8.6	8.6	24.0	46.3	54.9	54.9	49.8	41.2	20.6	6.9	6.9
105°	6.9	8.6	17.2	25.7	27.5	15.4	24.0	25.7	12.0	6.9	6.9
107.5°	6.9	8.6	6.9	8.6	8.6	6.9	8.6	10.3	5.1	6.9	6.9
110°	8.6	8.6	3.4	3.4	3.4	3.4	3.4	3.4	3.4	6.9	8.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	8.6	8.6	3.4	3.4	3.4	3.4	3.4	3.4	3.4	6.9	8.6
115°	6.9	6.9	3.4	3.4	3.4	3.4	1.7	3.4	3.4	6.9	6.9
117.5°	6.9	6.9	3.4	1.7	1.7	1.7	1.7	3.4	3.4	6.9	8.6
120°	8.6	6.9	3.4	1.7	1.7	1.7	1.7	1.7	5.1	8.6	8.6
122.5°	8.6	8.6	3.4	1.7	1.7	1.7	1.7	1.7	5.1	8.6	10.3
125°	8.6	6.9	3.4	1.7	1.7	1.7	1.7	1.7	3.4	8.6	8.6
127.5°	6.9	6.9	3.4	1.7	1.7	1.7	1.7	1.7	3.4	6.9	8.6
130°	6.9	6.9	3.4	1.7	1.7	1.7	1.7	1.7	3.4	6.9	6.9
132.5°	5.1	5.1	3.4	1.7	1.7	0.0	1.7	1.7	3.4	5.1	5.1
135°	3.4	3.4	1.7	0.0	1.7	0.0	1.7	0.0	1.7	3.4	5.1
137.5°	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
140°	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
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	1.7	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	1.7	0.0	1.7	1.7	1.7	0.0	0.0	0.0	0.0	1.7
150°	1.7	1.7	3.4	1.7	1.7	0.0	1.7	1.7	0.0	0.0	1.7
152.5°	3.4	3.4	3.4	1.7	0.0	0.0	1.7	1.7	1.7	1.7	1.7
155°	1.7	1.7	1.7	0.0	0.0	0.0	0.0	1.7	1.7	3.4	3.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
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)