

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: P561342

Luminaire Tested: **SDL-PA1-90-830-U-5WQ-A**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P561342
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-PA1-90-830-U-5WQ-A
Description: Springdale
(1) 80 CRI, 3000K, 1180mA 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: 7834.3 lumens
Efficiency: N/A
Efficacy: 84.8 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 - G3

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



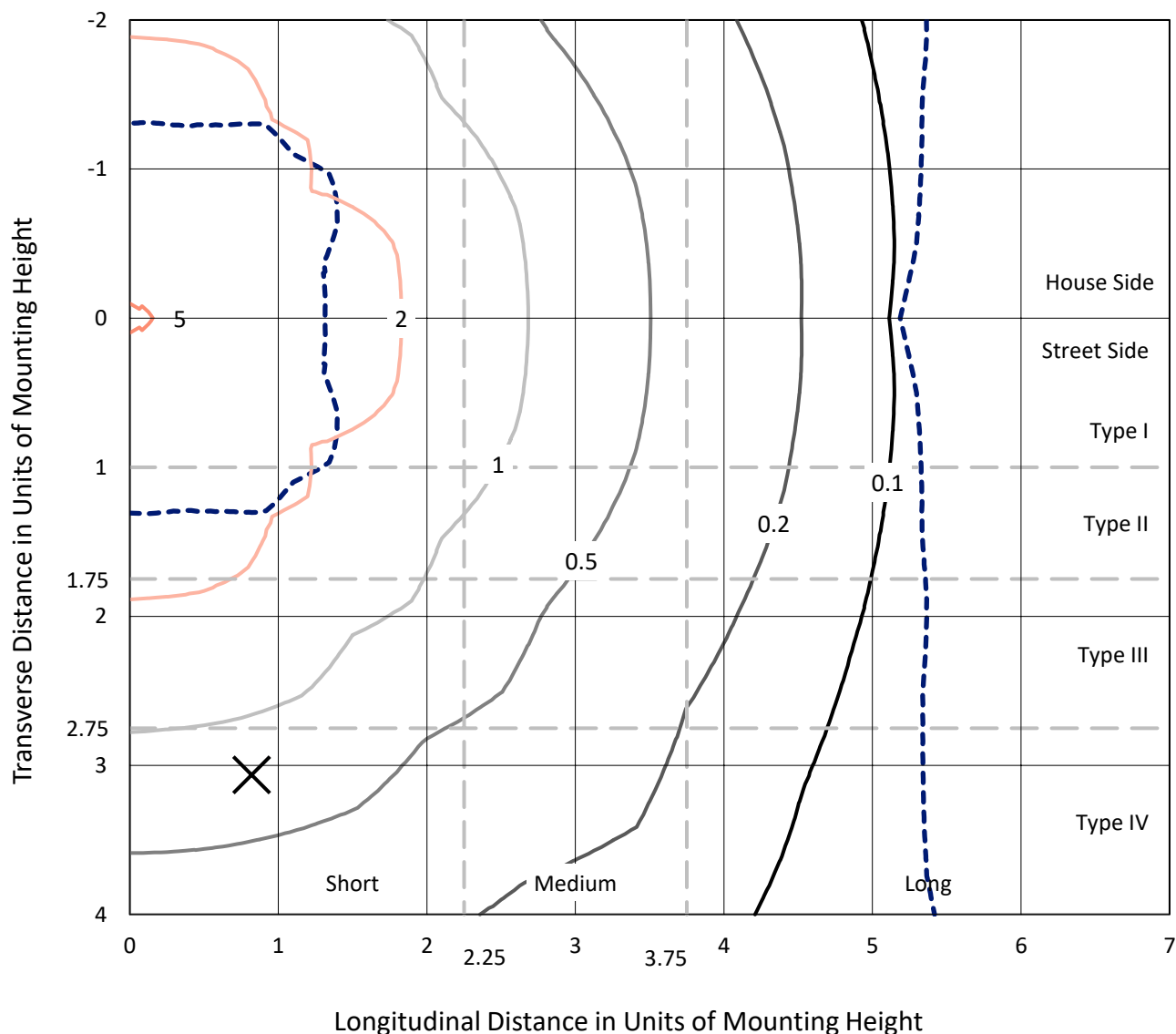
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



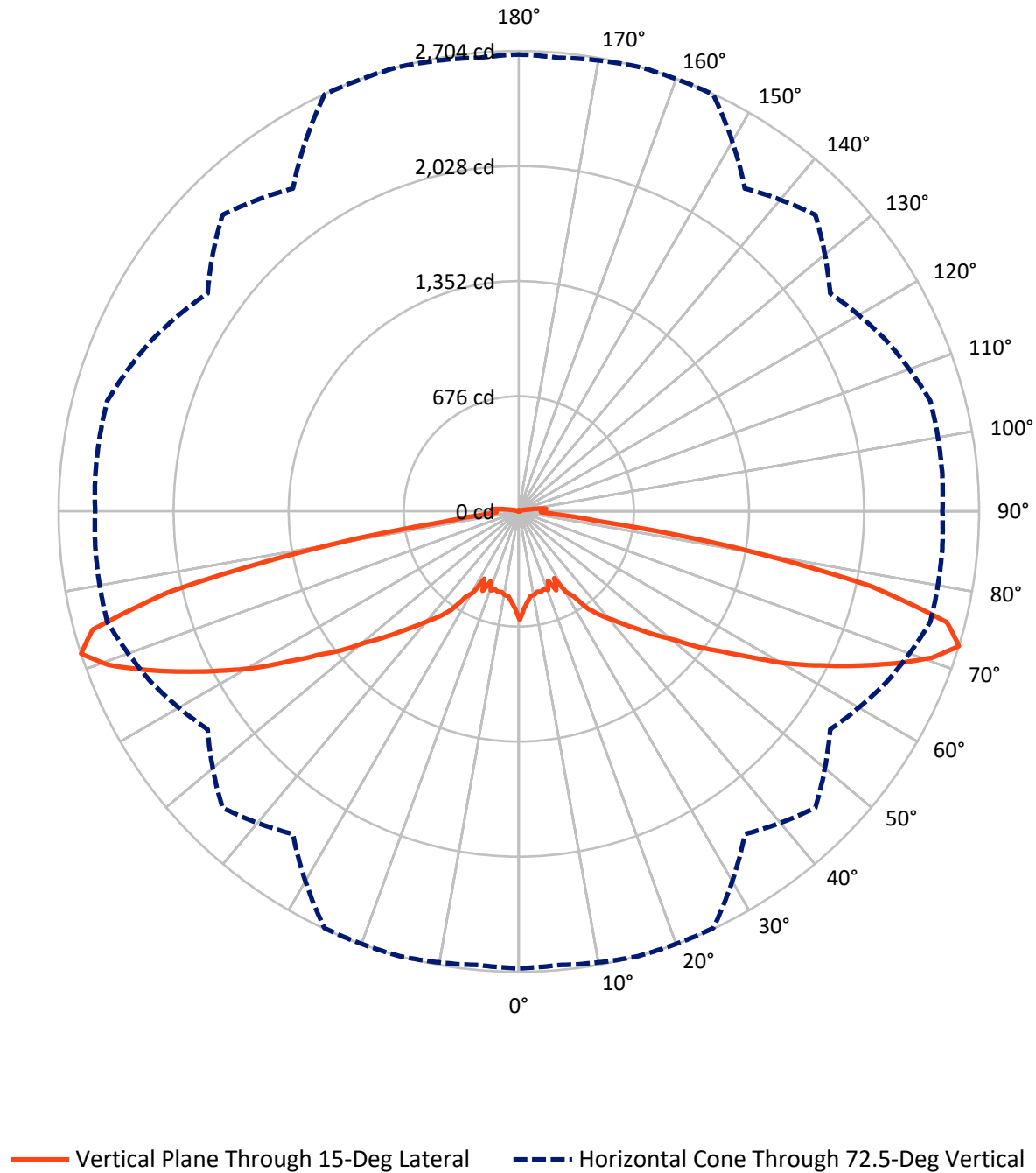
Based on 10 foot mounting height. Maximum calculated value = 6.4 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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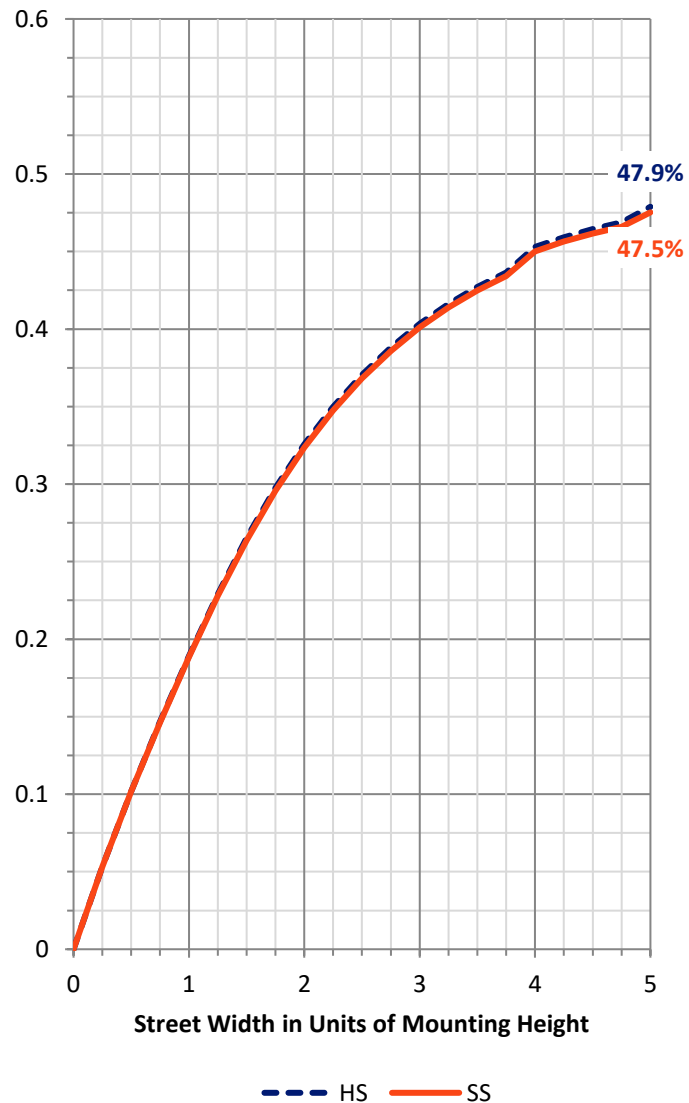
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3798.3	118.9	3917.1
	% Fixture	48.5	1.5	50.0
Street Side	Lumens	3798.3	118.9	3917.1
	% Fixture	48.5	1.5	50.0
Total	Lumens	7596.5	237.8	7834.3
	% Fixture	97.0	3.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	0.6
10°-20°	115.6	1.5
20°-30°	203.0	2.6
30°-40°	391.8	5.0
40°-50°	680.9	8.7
50°-60°	1200.0	15.3
60°-70°	2027.2	25.9
70°-80°	2383.2	30.4
80°-90°	544.7	7.0
90°-100°	179.7	2.3
100°-110°	42.4	0.5
110°-120°	6.8	0.1
120°-130°	5.4	0.1
130°-140°	2.2	0.0
140°-150°	0.4	0.0
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7596.5	97.0
0°-180°	7834.3	100.0



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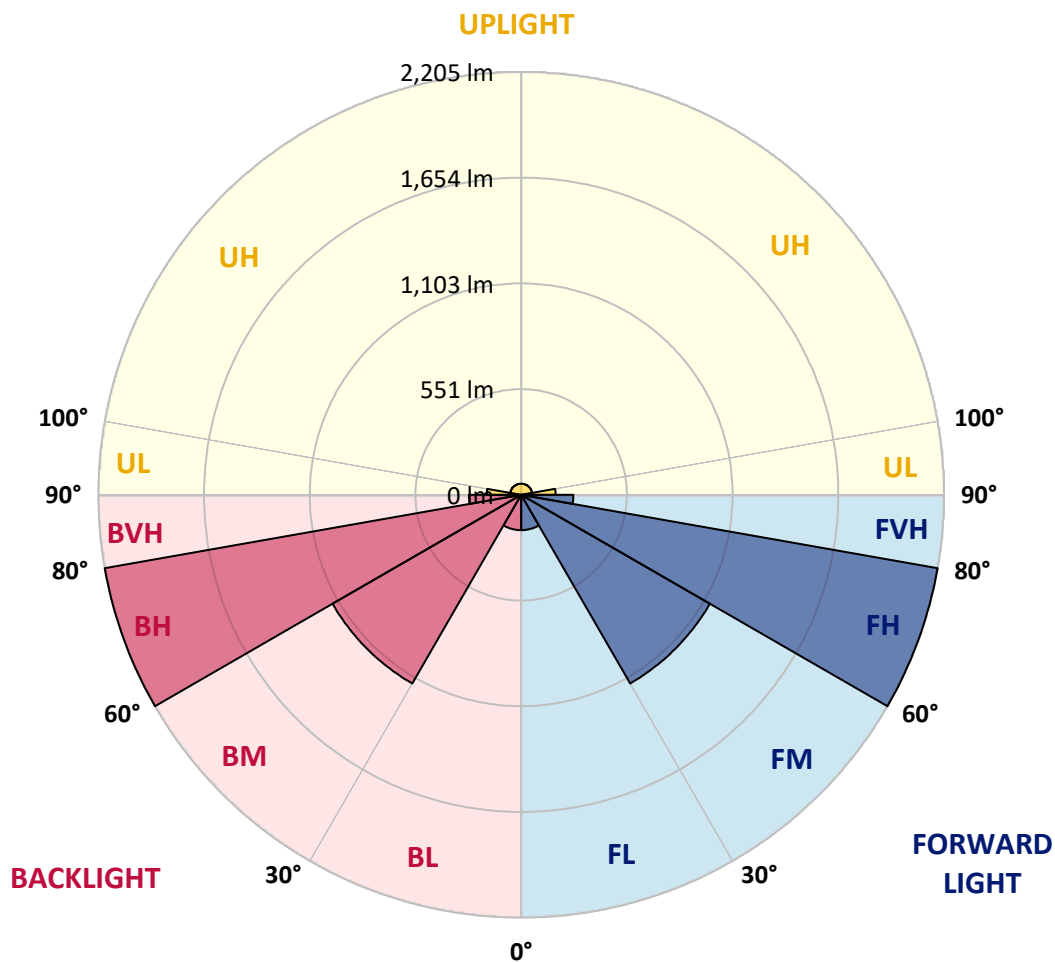
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	184.4	2.4			
FM	(30°-60°)	1136.3	14.5			
FH	(60°-80°)	2205.2	28.1			G2/5000
FVH	(80°-90°)	272.4	3.5			G3/500
BL	(0°-30°)	184.4	2.4	B1/500		
BM	(30°-60°)	1136.3	14.5	B2/2500		
BH	(60°-80°)	2205.2	28.1	B3/2500		G2/5000
BVH	(80°-90°)	272.4	3.5			G3/500
UL	(90°-100°)	179.7	2.3		U3/500	
UH	(100°-180°)	58.0	0.7		U3/500	

BUG Rating: B3-U3-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
2.5°	563.3	575.1	572.1	592.8	610.4	616.3	628.1	628.1	631.1	631.1	631.1
5°	533.8	533.8	533.8	533.8	533.8	530.8	542.6	595.7	613.4	616.3	613.4
7.5°	463.0	477.7	501.3	510.2	519.0	516.1	510.2	477.7	527.9	533.8	536.7
10°	498.4	498.4	498.4	492.5	468.9	448.3	424.7	401.1	409.9	463.0	463.0
12.5°	442.4	439.4	483.6	489.5	445.3	389.3	371.6	380.4	353.9	404.0	404.0
15°	498.4	498.4	489.5	460.0	368.6	389.3	330.3	333.2	377.5	436.5	436.5
17.5°	424.7	427.6	477.7	448.3	401.1	312.6	365.7	330.3	339.1	371.6	374.5
20°	507.2	507.2	492.5	383.4	377.5	389.3	336.2	327.3	377.5	436.5	439.4
22.5°	436.5	436.5	442.4	445.3	389.3	383.4	336.2	380.4	356.8	356.8	398.1
25°	527.9	527.9	513.1	407.0	427.6	371.6	389.3	356.8	436.5	480.7	480.7
27.5°	463.0	463.0	445.3	463.0	412.9	442.4	389.3	421.7	468.9	566.2	572.1
30°	563.3	563.3	548.5	460.0	457.1	430.6	433.5	489.5	604.5	666.5	666.5
32.5°	684.2	687.1	595.7	527.9	463.0	495.4	471.8	557.4	631.1	696.0	698.9
35°	734.3	734.3	701.9	613.4	504.3	522.0	513.1	589.8	678.3	731.4	731.4
37.5°	793.3	793.3	769.7	657.6	554.4	578.0	536.7	634.0	731.4	778.5	772.6
40°	855.2	846.4	831.6	704.8	607.5	613.4	578.0	681.2	781.5	828.7	828.7
42.5°	931.9	931.9	905.3	784.4	660.6	669.4	616.3	740.2	855.2	911.2	914.2
45°	1017.4	1014.5	987.9	872.9	725.5	740.2	681.2	819.8	946.6	999.7	1005.6
47.5°	1117.7	1117.7	1085.2	967.3	808.0	822.8	754.9	899.5	1058.7	1105.9	1111.8
50°	1223.8	1215.0	1185.5	1076.4	917.1	911.2	837.5	987.9	1176.7	1209.1	1220.9
52.5°	1347.7	1335.9	1324.1	1200.3	1038.1	1041.0	943.7	1082.3	1312.3	1330.0	1335.9
55°	1471.6	1462.7	1453.9	1353.6	1170.8	1188.5	1085.2	1212.0	1448.0	1459.8	1471.6
57.5°	1610.2	1619.0	1619.0	1524.6	1321.2	1365.4	1238.6	1374.2	1610.2	1601.3	1598.4
60°	1810.7	1793.0	1813.6	1728.1	1527.6	1563.0	1427.3	1571.8	1766.5	1731.1	1722.2
62.5°	1972.9	1969.9	1993.5	1955.2	1719.3	1807.7	1613.1	1760.6	1913.9	1884.4	1887.4
65°	2158.7	2155.7	2185.2	2167.5	1919.8	2031.9	1816.6	1972.9	2090.9	2058.4	2052.5
67.5°	2338.6	2347.4	2382.8	2406.4	2082.0	2226.5	2011.2	2173.4	2264.8	2211.8	2217.7
70°	2559.7	2545.0	2574.5	2577.4	2214.7	2368.1	2161.6	2300.2	2412.3	2376.9	2371.0
72.5°	2683.6	2674.8	2704.2	2701.3	2315.0	2462.4	2232.4	2379.9	2503.7	2497.8	2489.0
75°	2548.0	2559.7	2598.1	2651.2	2320.9	2515.5	2223.6	2326.8	2424.1	2391.7	2382.8
77.5°	1999.4	2023.0	2114.4	2285.5	2164.6	2494.9	2067.3	2040.7	2061.4	2023.0	1999.4
80°	1061.6	1082.3	1276.9	1568.9	1737.0	2167.5	1737.0	1483.4	1265.1	1108.8	976.1
82.5°	339.1	365.7	457.1	722.5	1097.0	1509.9	1005.6	569.2	392.2	336.2	315.5
85°	185.8	191.7	206.4	280.2	386.3	610.4	409.9	241.8	212.3	203.5	200.5
87.5°	156.3	159.2	129.8	159.2	185.8	191.7	185.8	132.7	135.7	150.4	147.5
90°	165.1	165.1	132.7	156.3	185.8	188.7	185.8	138.6	135.7	159.2	156.3
92.5°	179.9	179.9	150.4	168.1	206.4	200.5	200.5	144.5	150.4	171.0	171.0
95°	191.7	188.7	162.2	171.0	218.2	224.1	218.2	153.3	162.2	185.8	185.8
97.5°	141.6	135.7	118.0	153.3	206.4	235.9	218.2	144.5	126.8	141.6	138.6
100°	67.8	64.9	61.9	115.0	162.2	179.9	156.3	103.2	56.0	35.4	35.4
102.5°	14.7	14.7	41.3	79.6	94.4	94.4	85.5	70.8	35.4	11.8	11.8
105°	11.8	14.7	29.5	44.2	47.2	26.5	41.3	44.2	20.6	11.8	11.8
107.5°	11.8	14.7	11.8	14.7	14.7	11.8	14.7	17.7	8.8	11.8	11.8
110°	14.7	14.7	5.9	5.9	5.9	5.9	5.9	5.9	5.9	11.8	14.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	14.7	14.7	5.9	5.9	5.9	5.9	5.9	5.9	5.9	11.8	14.7
115°	11.8	11.8	5.9	5.9	5.9	5.9	2.9	5.9	5.9	11.8	11.8
117.5°	11.8	11.8	5.9	2.9	2.9	2.9	2.9	5.9	5.9	11.8	14.7
120°	14.7	11.8	5.9	2.9	2.9	2.9	2.9	2.9	8.8	14.7	14.7
122.5°	14.7	14.7	5.9	2.9	2.9	2.9	2.9	2.9	8.8	14.7	17.7
125°	14.7	11.8	5.9	2.9	2.9	2.9	2.9	2.9	5.9	14.7	14.7
127.5°	11.8	11.8	5.9	2.9	2.9	2.9	2.9	2.9	5.9	11.8	14.7
130°	11.8	11.8	5.9	2.9	2.9	2.9	2.9	2.9	5.9	11.8	11.8
132.5°	8.8	8.8	5.9	2.9	2.9	0.0	2.9	2.9	5.9	8.8	8.8
135°	5.9	5.9	2.9	0.0	2.9	0.0	2.9	0.0	2.9	5.9	8.8
137.5°	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9
140°	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
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	2.9	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	2.9	0.0	2.9	2.9	2.9	0.0	0.0	0.0	0.0	2.9
150°	2.9	2.9	5.9	2.9	2.9	0.0	2.9	2.9	0.0	0.0	2.9
152.5°	5.9	5.9	5.9	2.9	0.0	0.0	2.9	2.9	2.9	2.9	2.9
155°	2.9	2.9	2.9	0.0	0.0	0.0	0.0	2.9	2.9	5.9	5.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9
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)