

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: P588377

Luminaire Tested: **ARC-CA6-110-727-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC-CA6-110-727-U-55-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR
Light Source: (6) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9577 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U3 - G3

Input Watts (W): 112.2
Input Voltage (V): 120
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: 25 FT



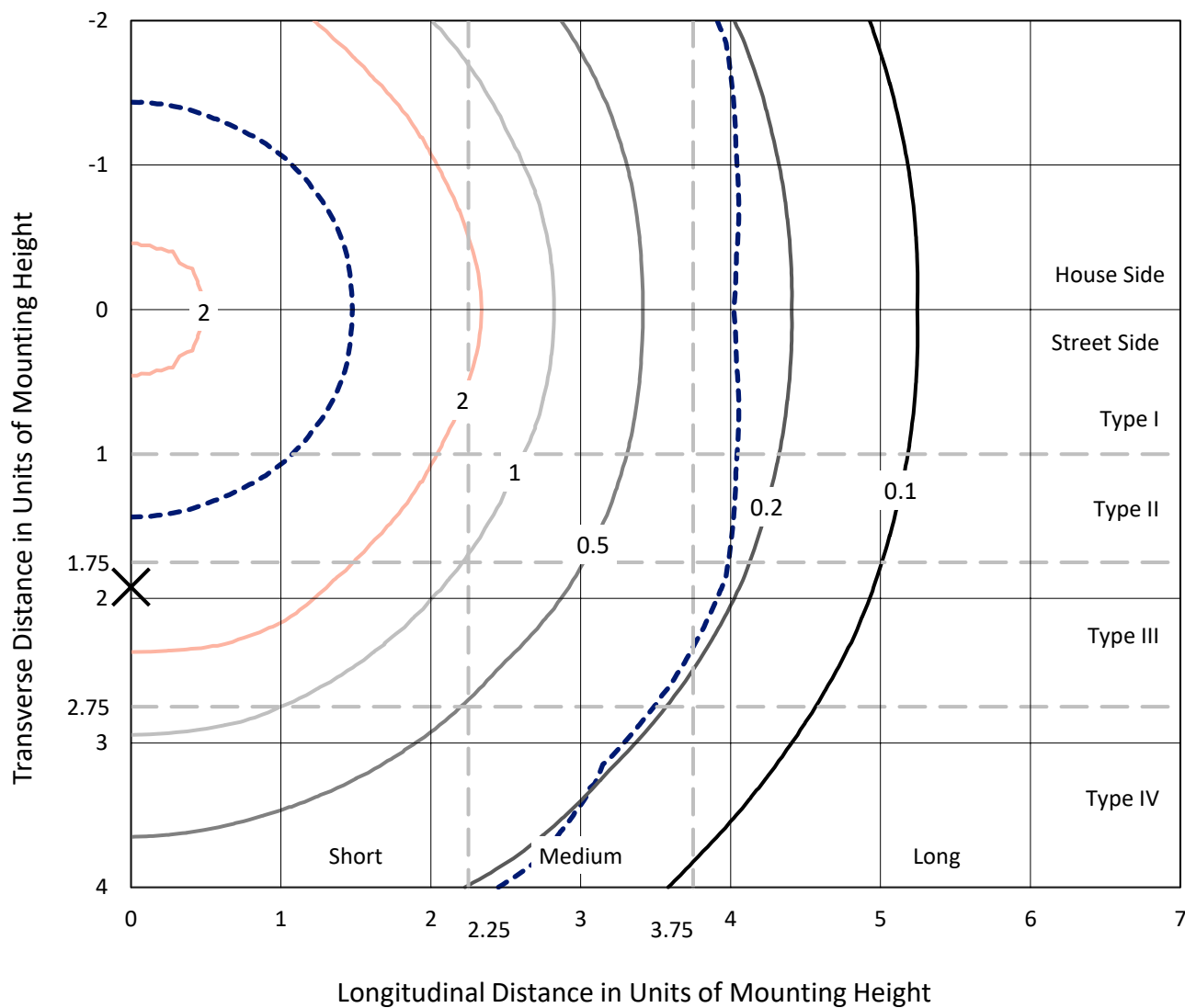
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

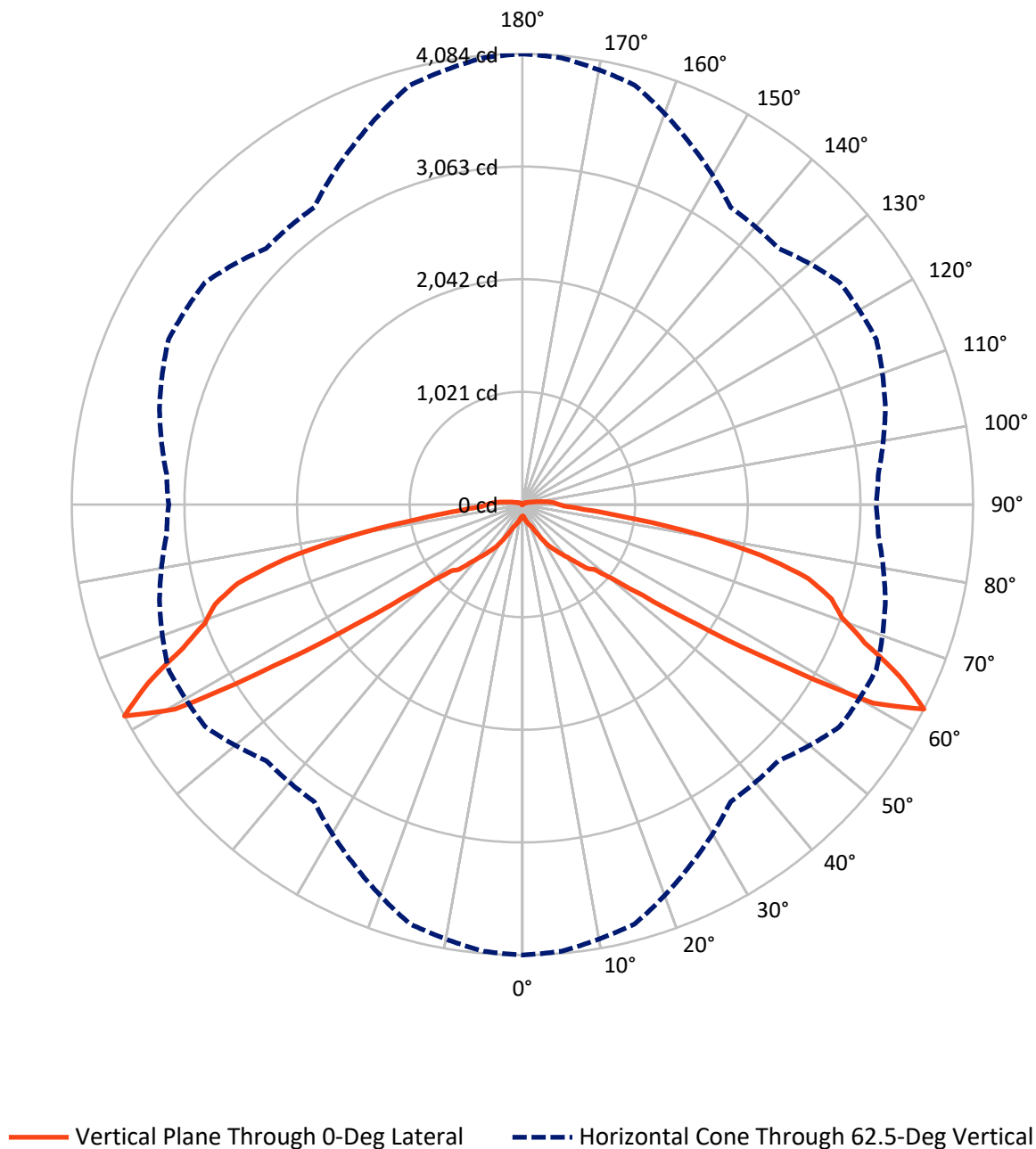


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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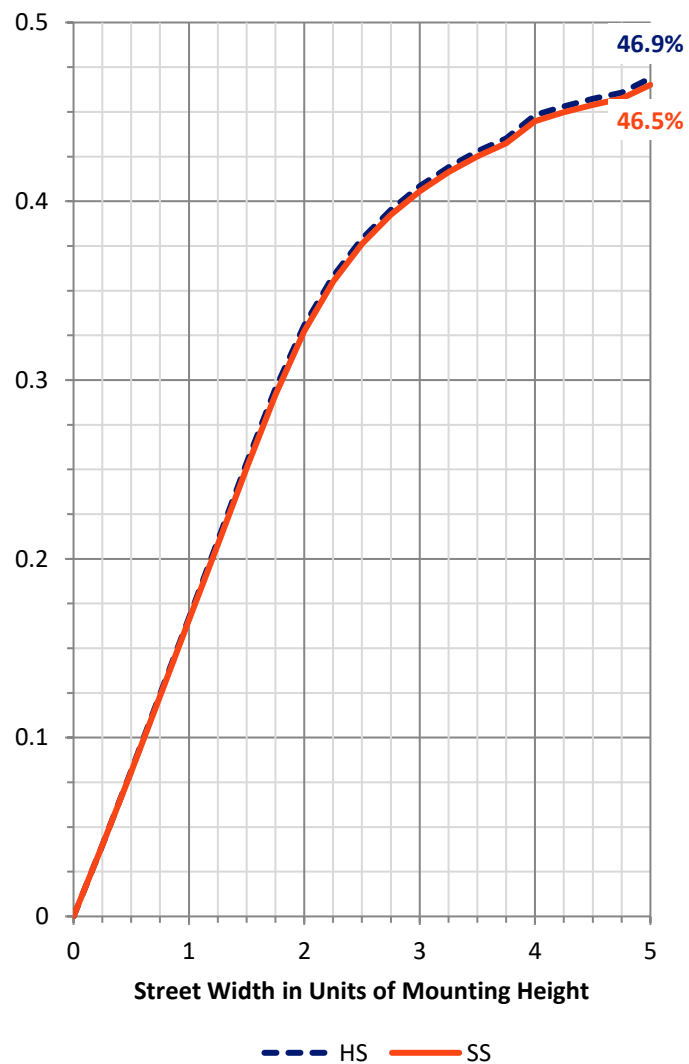
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4604.5	184.0	4788.5
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	4604.5	184.0	4788.5
	% Fixture	48.1	1.9	50.0
Total	Lumens	9208.9	368.1	9577.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.4	0.1
10°-20°	48.2	0.5
20°-30°	127.3	1.3
30°-40°	289.7	3.0
40°-50°	585.9	6.1
50°-60°	1734.5	18.1
60°-70°	3258.6	34.0
70°-80°	2422.1	25.3
80°-90°	731.2	7.6
90°-100°	237.3	2.5
100°-110°	83.1	0.9
110°-120°	32.1	0.3
120°-130°	12.7	0.1
130°-140°	2.5	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.1	0.0
170°-180°	0.1	0.0
0°-90°	9208.9	96.2
0°-180°	9577.0	100.0

Coefficient of Utilization



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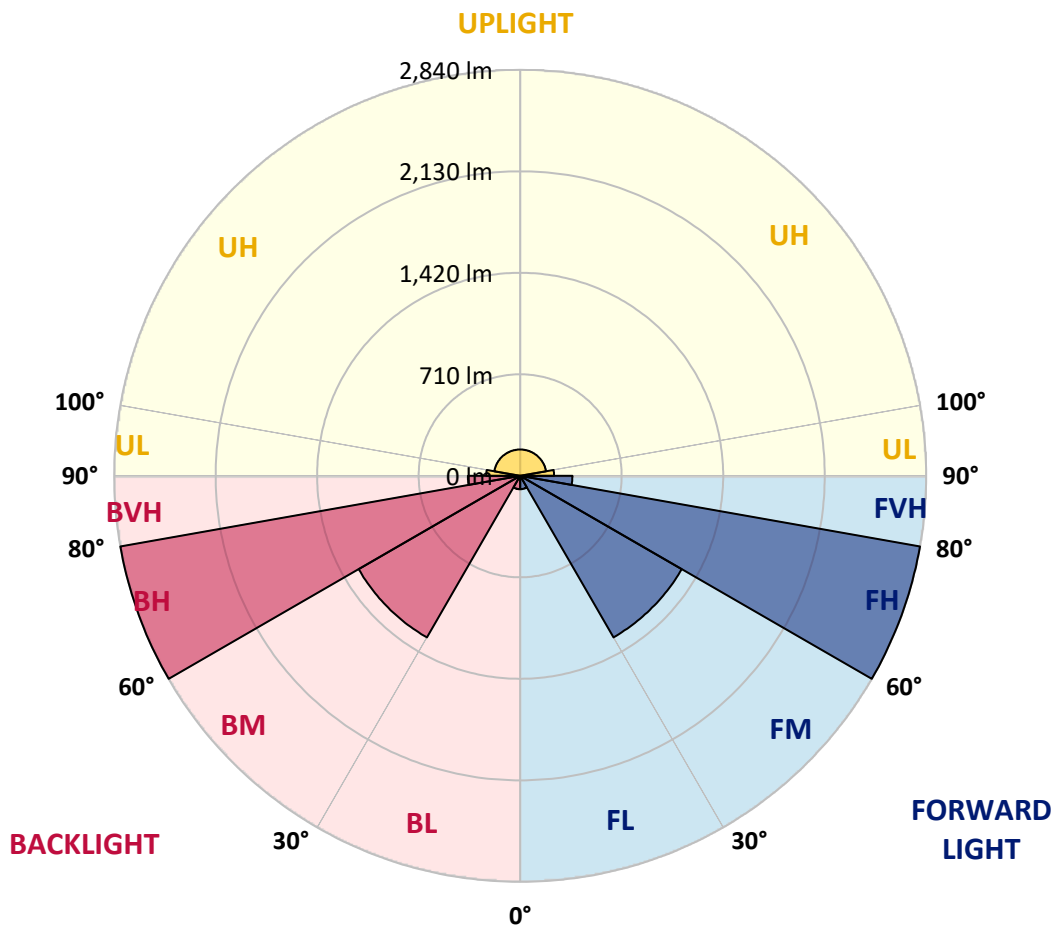
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	93.5	1.0			
FM	(30°-60°)	1305.0	13.6			
FH	(60°-80°)	2840.3	29.7			G2/5000
FVH	(80°-90°)	365.6	3.8			G3/500
BL	(0°-30°)	93.5	1.0	B0/110		
BM	(30°-60°)	1305.0	13.6	B2/2500		
BH	(60°-80°)	2840.3	29.7	B4/5000		G2/5000
BVH	(80°-90°)	365.6	3.8			G3/500
UL	(90°-100°)	237.3	2.5		U3/500	
UH	(100°-180°)	184.0	1.9		U3/500	

BUG Rating: B4-U3-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3
2.5°	107.1	107.1	107.1	105.3	103.5	103.5	103.5	103.5	101.7	101.7	101.7
5°	112.6	112.6	110.8	109.0	109.0	107.1	109.0	107.1	107.1	107.1	109.0
7.5°	125.3	125.3	123.5	123.5	123.5	121.7	121.7	121.7	121.7	119.8	121.7
10°	139.8	139.8	139.8	139.8	139.8	138.0	138.0	136.2	136.2	136.2	136.2
12.5°	156.2	154.3	154.3	156.2	154.3	152.5	152.5	152.5	150.7	150.7	150.7
15°	170.7	170.7	168.9	168.9	168.9	167.1	167.1	165.2	165.2	163.4	163.4
17.5°	185.2	185.2	183.4	181.6	181.6	181.6	179.8	179.8	178.0	178.0	178.0
20°	203.4	201.6	199.7	197.9	196.1	196.1	196.1	196.1	194.3	192.5	192.5
22.5°	223.3	221.5	219.7	217.9	217.9	216.1	216.1	214.3	214.3	212.5	210.6
25°	265.1	265.1	257.8	256.0	256.0	257.8	256.0	254.2	250.6	245.1	245.1
27.5°	321.4	323.2	325.0	334.1	332.3	319.6	312.3	308.7	306.9	306.9	308.7
30°	385.0	386.8	392.2	401.3	395.9	379.5	361.4	354.1	359.5	366.8	368.6
32.5°	452.1	452.1	441.2	428.5	415.8	404.9	399.5	395.9	394.0	388.6	388.6
35°	504.8	495.7	461.2	419.5	406.7	414.0	435.8	443.1	415.8	390.4	386.8
37.5°	564.7	562.9	535.7	504.8	481.2	477.6	501.2	508.4	479.4	463.0	461.2
40°	628.3	631.9	637.4	624.6	588.3	577.4	564.7	555.6	555.6	557.5	553.8
42.5°	713.6	719.1	719.1	720.9	691.8	666.4	641.0	626.5	624.6	639.2	644.6
45°	828.0	828.0	815.3	789.9	777.2	759.0	742.7	728.2	720.9	722.7	728.2
47.5°	878.9	882.5	871.6	835.3	826.2	808.0	784.4	779.0	782.6	788.1	789.9
50°	1056.8	1047.7	973.3	897.0	869.8	887.9	922.4	931.5	897.0	862.5	853.4
52.5°	1369.1	1367.3	1309.2	1252.9	1214.8	1203.9	1251.1	1254.7	1194.8	1169.4	1165.8
55°	1910.3	1890.3	1933.9	1961.1	1881.2	1792.2	1759.6	1714.2	1717.8	1768.6	1770.4
57.5°	2678.4	2689.3	2738.3	2667.5	2545.8	2480.4	2435.0	2349.7	2351.5	2396.9	2400.5
60°	3653.5	3651.7	3495.5	3223.1	3036.1	3048.8	3174.1	3192.2	2998.0	2872.7	2858.1
62.5°	4083.8	4063.9	3934.9	3604.4	3288.5	3283.0	3510.0	3539.1	3404.7	3237.6	3205.0
65°	3758.8	3742.4	3796.9	3684.3	3268.5	3161.4	3230.4	3223.1	3308.5	3384.7	3393.8
67.5°	3346.6	3350.2	3481.0	3446.5	3157.7	2976.2	2889.0	2878.1	3037.9	3215.9	3239.5
70°	3070.6	3070.6	3163.2	3023.4	2885.4	2767.3	2676.6	2620.3	2723.8	2752.8	2751.0
72.5°	2929.0	2916.2	2850.9	2716.5	2611.2	2507.7	2534.9	2493.2	2444.1	2367.9	2360.6
75°	2676.6	2662.0	2571.2	2507.7	2431.4	2302.5	2326.1	2284.3	2202.6	2133.6	2122.7
77.5°	2211.7	2211.7	2153.6	2106.4	2084.6	1973.8	1962.9	1943.0	1861.2	1823.1	1808.6
80°	1583.4	1579.8	1556.2	1539.8	1567.1	1501.7	1472.6	1472.6	1440.0	1405.5	1389.1
82.5°	942.4	929.7	929.7	935.2	918.8	877.1	884.3	926.1	922.4	902.5	887.9
85°	557.5	550.2	544.8	537.5	523.0	493.9	493.9	497.5	501.2	503.0	495.7
87.5°	372.2	370.4	370.4	370.4	354.1	334.1	343.2	348.6	345.0	343.2	341.4
90°	325.0	326.9	325.0	317.8	303.2	285.1	288.7	296.0	292.4	292.4	290.5
92.5°	292.4	292.4	288.7	281.5	266.9	250.6	252.4	256.0	254.2	252.4	250.6
95°	239.7	239.7	236.1	230.6	217.9	203.4	205.2	208.8	205.2	205.2	203.4
97.5°	187.0	187.0	185.2	181.6	170.7	159.8	161.6	163.4	161.6	161.6	159.8
100°	141.6	141.6	139.8	134.4	128.9	119.8	121.7	125.3	123.5	123.5	121.7
102.5°	105.3	105.3	103.5	101.7	94.4	89.0	90.8	90.8	90.8	89.0	89.0
105°	81.7	81.7	81.7	78.1	74.4	69.0	69.0	69.0	69.0	67.2	67.2
107.5°	65.4	63.6	63.6	61.7	58.1	54.5	54.5	54.5	54.5	54.5	54.5
110°	52.7	50.8	49.0	49.0	45.4	43.6	41.8	43.6	43.6	43.6	43.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	45.4	43.6	39.9	39.9	38.1	34.5	34.5	34.5	38.1	36.3	36.3
115°	39.9	38.1	32.7	32.7	30.9	29.1	29.1	29.1	32.7	29.1	29.1
117.5°	34.5	32.7	27.2	27.2	25.4	23.6	23.6	23.6	27.2	23.6	23.6
120°	25.4	25.4	21.8	21.8	21.8	20.0	20.0	20.0	21.8	20.0	20.0
122.5°	20.0	20.0	18.2	18.2	18.2	16.3	16.3	16.3	16.3	14.5	14.5
125°	20.0	23.6	14.5	14.5	12.7	12.7	12.7	10.9	12.7	10.9	10.9
127.5°	21.8	20.0	10.9	10.9	10.9	9.1	9.1	9.1	9.1	9.1	9.1
130°	7.3	10.9	7.3	7.3	7.3	7.3	7.3	7.3	5.4	5.4	5.4
132.5°	5.4	5.4	5.4	5.4	5.4	5.4	3.6	3.6	3.6	3.6	3.6
135°	3.6	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8
137.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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	1.8	1.8	1.8	1.8	1.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8
170°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
172.5°	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
175°	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8
177.5°	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
180°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

(END OF REPORT)