

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: P588357

Luminaire Tested: **ARC-CA6-100-730-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588357
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-CA6-100-730-U-55-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR
Light Source: (6) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9404 lumens
Efficiency: N/A
Efficacy: 90.7 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): 103.7
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



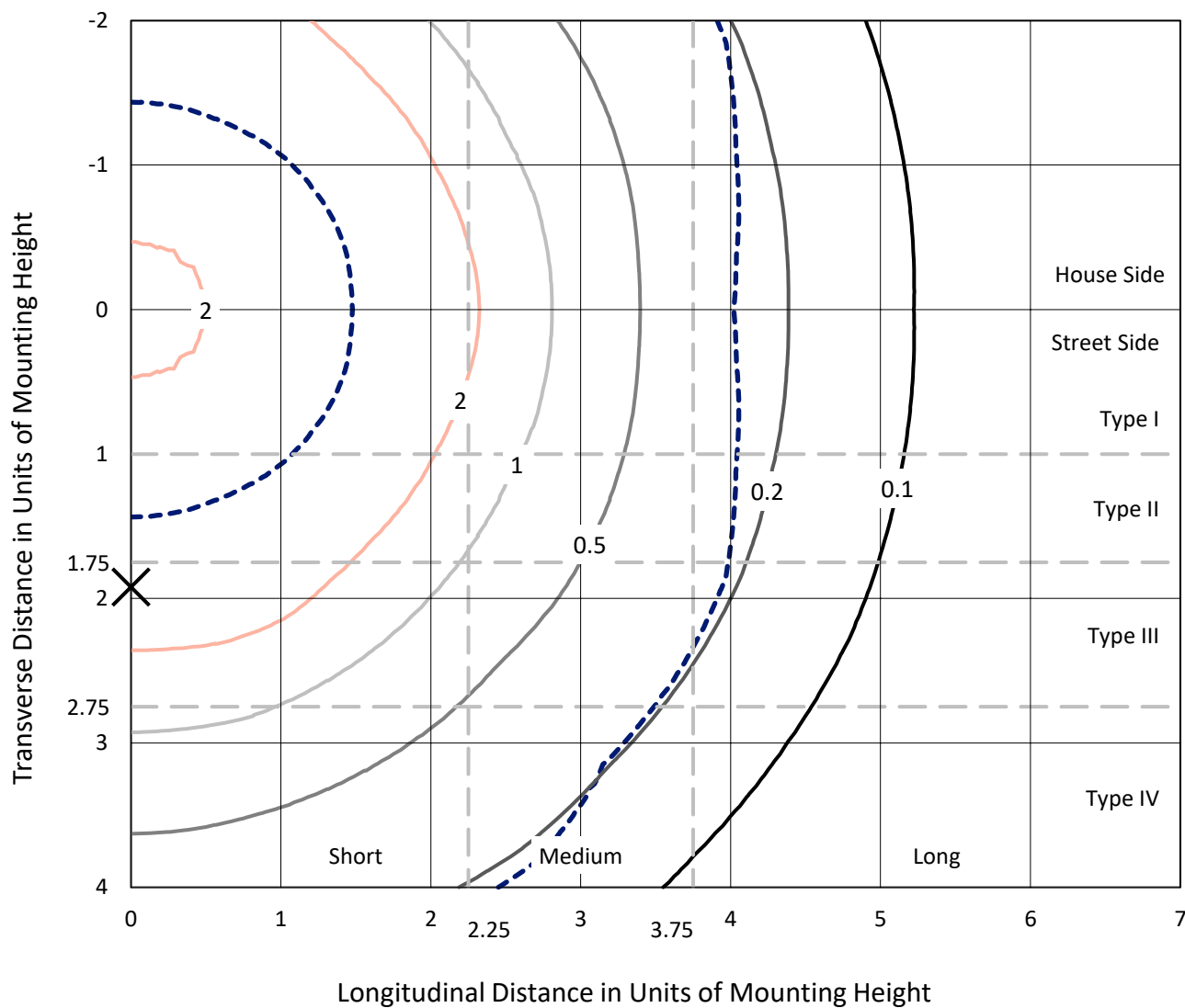
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

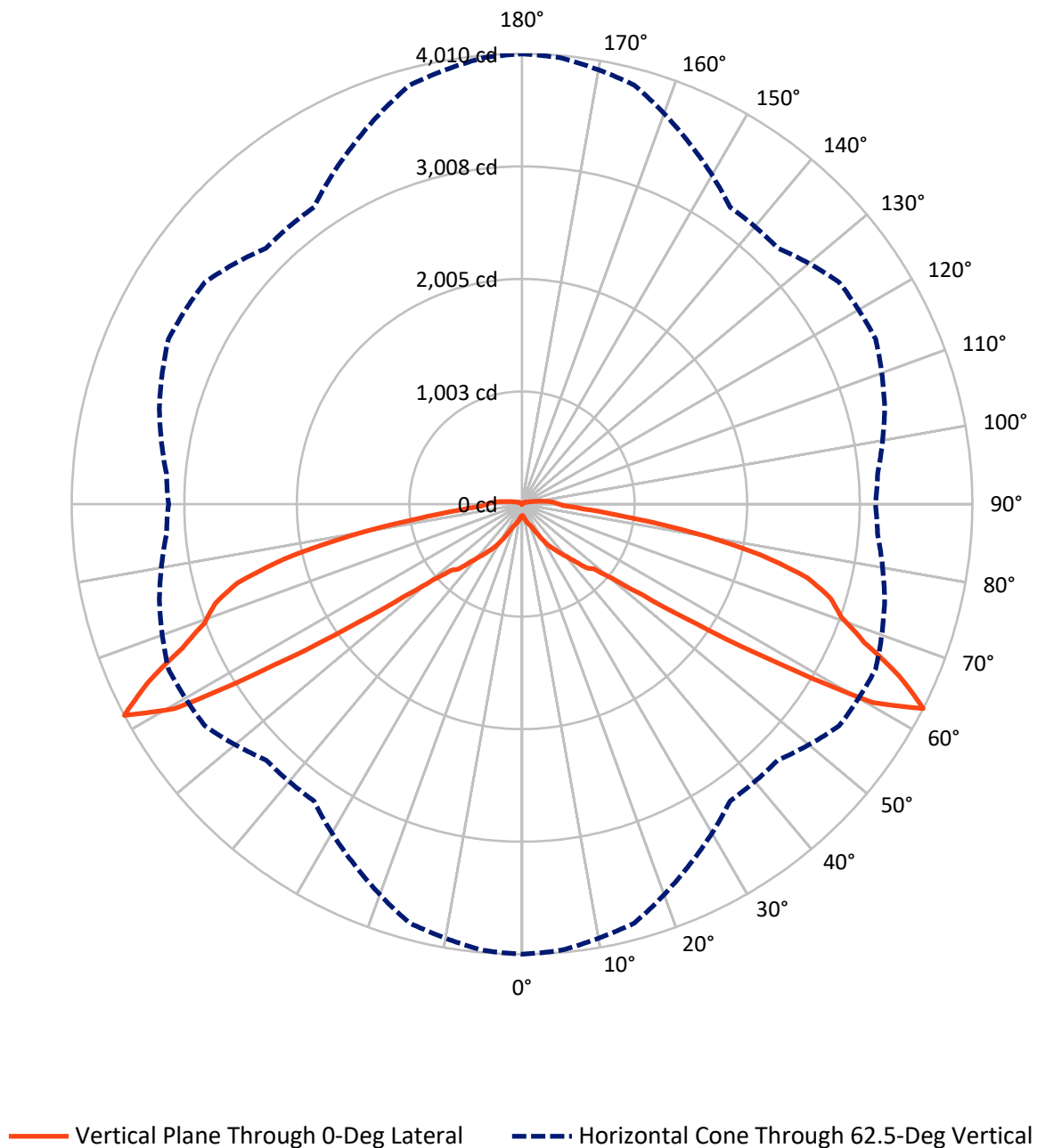


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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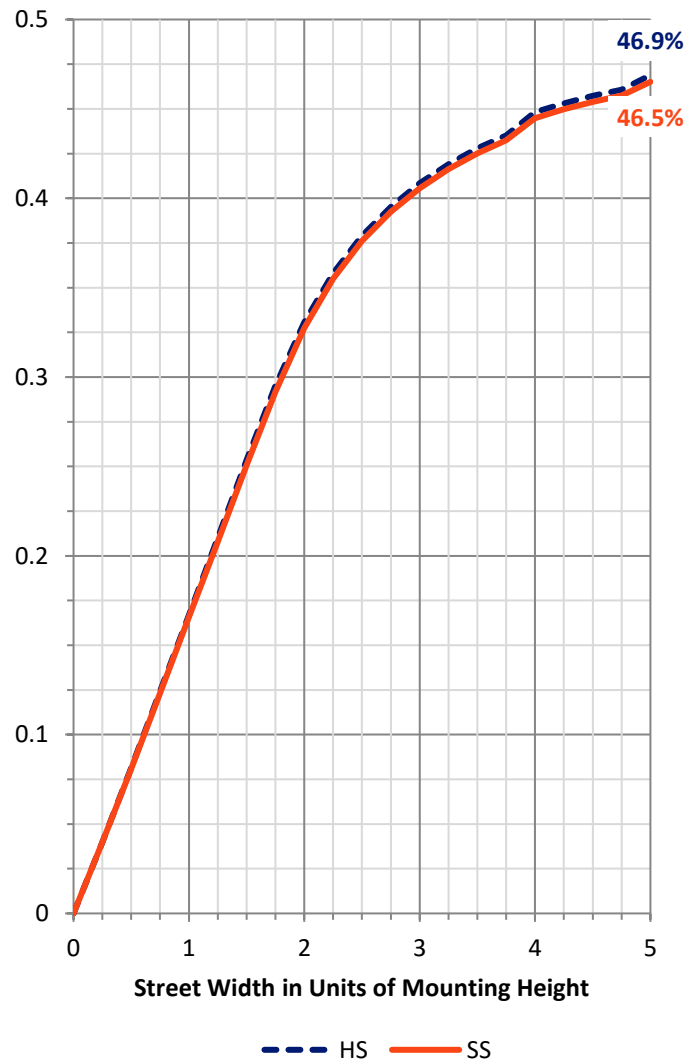
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4521.3	180.7	4702.0
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	4521.3	180.7	4702.0
	% Fixture	48.1	1.9	50.0
Total	Lumens	9042.6	361.4	9404.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.2	0.1
10°-20°	47.4	0.5
20°-30°	125.0	1.3
30°-40°	284.4	3.0
40°-50°	575.3	6.1
50°-60°	1703.2	18.1
60°-70°	3199.7	34.0
70°-80°	2378.4	25.3
80°-90°	718.0	7.6
90°-100°	233.0	2.5
100°-110°	81.6	0.9
110°-120°	31.6	0.3
120°-130°	12.5	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°	9042.6	96.2
0°-180°	9404.0	100.0

Coefficient of Utilization



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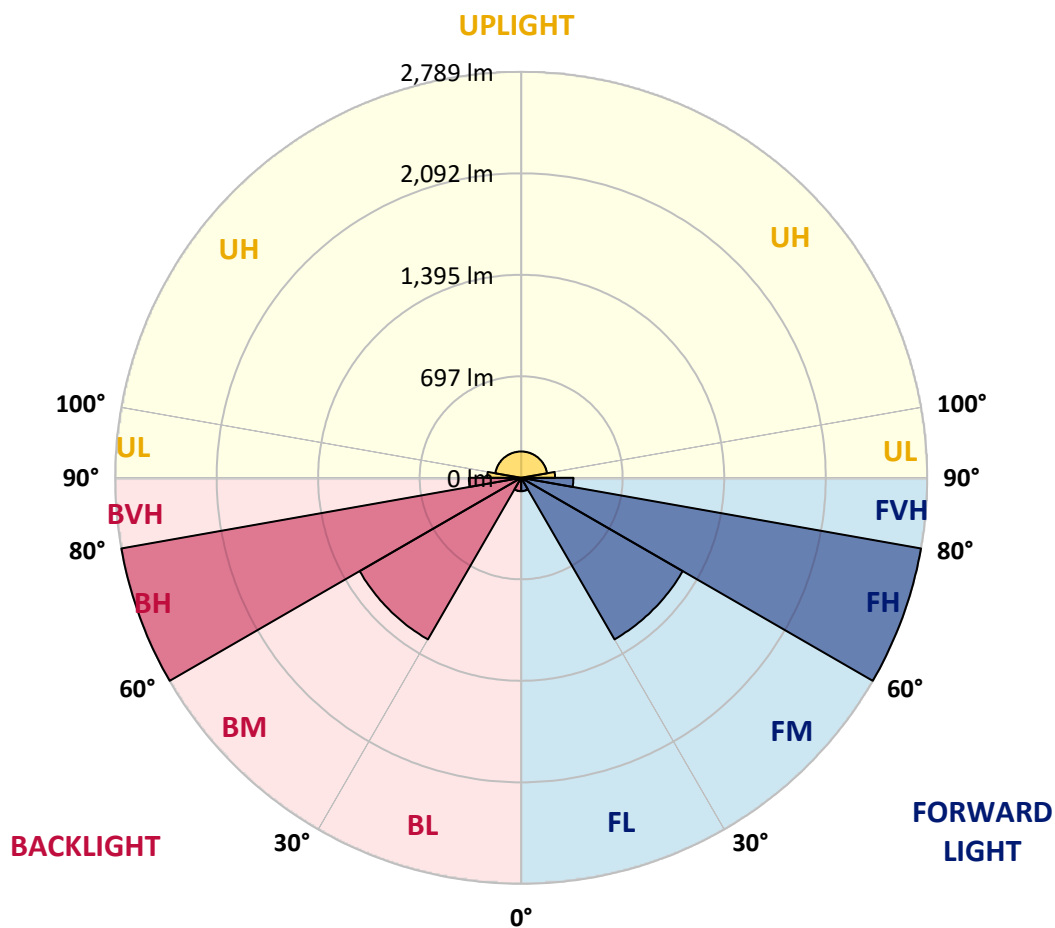
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	91.8	1.0			
FM	(30°-60°)	1281.5	13.6			
FH	(60°-80°)	2789.0	29.7			G2/5000
FVH	(80°-90°)	359.0	3.8			G3/500
BL	(0°-30°)	91.8	1.0	B0/110		
BM	(30°-60°)	1281.5	13.6	B2/2500		
BH	(60°-80°)	2789.0	29.7	B4/5000		G2/5000
BVH	(80°-90°)	359.0	3.8			G3/500
UL	(90°-100°)	233.0	2.5		U3/500	
UH	(100°-180°)	180.7	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°	103.4	103.4	103.4	103.4	103.4	103.4	103.4	103.4	103.4	103.4	103.4
2.5°	105.2	105.2	105.2	103.4	101.6	101.6	101.6	101.6	99.9	99.9	99.9
5°	110.5	110.5	108.8	107.0	107.0	105.2	107.0	105.2	105.2	105.2	107.0
7.5°	123.0	123.0	121.2	121.2	121.2	119.5	119.5	119.5	119.5	117.7	119.5
10°	137.3	137.3	137.3	137.3	137.3	135.5	135.5	133.7	133.7	133.7	133.7
12.5°	153.3	151.6	151.6	153.3	151.6	149.8	149.8	149.8	148.0	148.0	148.0
15°	167.6	167.6	165.8	165.8	165.8	164.0	164.0	162.3	162.3	160.5	160.5
17.5°	181.9	181.9	180.1	178.3	178.3	178.3	176.5	176.5	174.7	174.7	174.7
20°	199.7	197.9	196.1	194.4	192.6	192.6	192.6	192.6	190.8	189.0	189.0
22.5°	219.3	217.5	215.7	214.0	214.0	212.2	212.2	210.4	210.4	208.6	206.8
25°	260.3	260.3	253.2	251.4	251.4	253.2	251.4	249.6	246.1	240.7	240.7
27.5°	315.6	317.4	319.2	328.1	326.3	313.8	306.7	303.1	301.3	301.3	303.1
30°	378.0	379.8	385.1	394.1	388.7	372.7	354.8	347.7	353.0	360.2	362.0
32.5°	444.0	444.0	433.3	420.8	408.3	397.6	392.3	388.7	386.9	381.6	381.6
35°	495.7	486.8	452.9	411.9	399.4	406.5	427.9	435.1	408.3	383.4	379.8
37.5°	554.5	552.7	526.0	495.7	472.5	468.9	492.1	499.3	470.7	454.7	452.9
40°	616.9	620.5	625.8	613.4	577.7	567.0	554.5	545.6	545.6	547.4	543.8
42.5°	700.7	706.1	706.1	707.9	679.3	654.4	629.4	615.1	613.4	627.6	633.0
45°	813.1	813.1	800.6	775.6	763.1	745.3	729.3	715.0	707.9	709.6	715.0
47.5°	863.0	866.6	855.9	820.2	811.3	793.5	770.3	764.9	768.5	773.8	775.6
50°	1037.7	1028.8	955.7	880.8	854.1	871.9	905.8	914.7	880.8	846.9	838.0
52.5°	1344.4	1342.6	1285.6	1230.3	1192.9	1182.2	1228.5	1232.1	1173.2	1148.3	1144.7
55°	1875.8	1856.1	1898.9	1925.7	1847.2	1759.9	1727.8	1683.2	1686.8	1736.7	1738.5
57.5°	2630.0	2640.7	2688.8	2619.3	2499.8	2435.6	2391.1	2307.3	2309.0	2353.6	2357.2
60°	3587.5	3585.7	3432.4	3164.9	2981.2	2993.7	3116.8	3134.6	2943.8	2820.8	2806.5
62.5°	4010.1	3990.4	3863.8	3539.3	3229.1	3223.7	3446.6	3475.1	3343.2	3179.2	3147.1
65°	3690.9	3674.8	3728.3	3617.8	3209.5	3104.3	3172.0	3164.9	3248.7	3323.6	3332.5
67.5°	3286.1	3289.7	3418.1	3384.2	3100.7	2922.4	2836.8	2826.1	2983.0	3157.8	3180.9
70°	3015.1	3015.1	3106.1	2968.8	2833.3	2717.4	2628.2	2572.9	2674.6	2703.1	2701.3
72.5°	2876.0	2863.6	2799.4	2667.4	2564.0	2462.4	2489.1	2448.1	2400.0	2325.1	2318.0
75°	2628.2	2613.9	2524.8	2462.4	2387.5	2260.9	2284.1	2243.1	2162.8	2095.1	2084.4
77.5°	2171.7	2171.7	2114.7	2068.3	2046.9	1938.2	1927.5	1907.9	1827.6	1790.2	1775.9
80°	1554.8	1551.2	1528.1	1512.0	1538.8	1474.6	1446.0	1446.0	1414.0	1380.1	1364.0
82.5°	925.4	912.9	912.9	918.3	902.2	861.2	868.3	909.4	905.8	886.2	871.9
85°	547.4	540.3	534.9	527.8	513.5	485.0	485.0	488.6	492.1	493.9	486.8
87.5°	365.5	363.7	363.7	363.7	347.7	328.1	337.0	342.3	338.8	337.0	335.2
90°	319.2	320.9	319.2	312.0	297.8	279.9	283.5	290.6	287.1	287.1	285.3
92.5°	287.1	287.1	283.5	276.4	262.1	246.1	247.8	251.4	249.6	247.8	246.1
95°	235.4	235.4	231.8	226.4	214.0	199.7	201.5	205.0	201.5	201.5	199.7
97.5°	183.7	183.7	181.9	178.3	167.6	156.9	158.7	160.5	158.7	158.7	156.9
100°	139.1	139.1	137.3	131.9	126.6	117.7	119.5	123.0	121.2	121.2	119.5
102.5°	103.4	103.4	101.6	99.9	92.7	87.4	89.2	89.2	89.2	87.4	87.4
105°	80.2	80.2	80.2	76.7	73.1	67.8	67.8	67.8	67.8	66.0	66.0
107.5°	64.2	62.4	62.4	60.6	57.1	53.5	53.5	53.5	53.5	53.5	53.5
110°	51.7	49.9	48.1	48.1	44.6	42.8	41.0	42.8	42.8	42.8	42.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	44.6	42.8	39.2	39.2	37.4	33.9	33.9	33.9	37.4	35.7	35.7
115°	39.2	37.4	32.1	32.1	30.3	28.5	28.5	28.5	32.1	28.5	28.5
117.5°	33.9	32.1	26.7	26.7	25.0	23.2	23.2	23.2	26.7	23.2	23.2
120°	25.0	25.0	21.4	21.4	21.4	19.6	19.6	19.6	21.4	19.6	19.6
122.5°	19.6	19.6	17.8	17.8	17.8	16.0	16.0	16.0	16.0	14.3	14.3
125°	19.6	23.2	14.3	14.3	12.5	12.5	12.5	10.7	12.5	10.7	10.7
127.5°	21.4	19.6	10.7	10.7	10.7	8.9	8.9	8.9	8.9	8.9	8.9
130°	7.1	10.7	7.1	7.1	7.1	7.1	7.1	7.1	5.3	5.3	5.3
132.5°	5.3	5.3	5.3	5.3	5.3	5.3	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)