

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: P588397

Luminaire Tested: **ARC-CA6-120-722-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588397
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-CA6-120-722-U-55-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR
Light Source: (6) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9357 lumens
Efficiency: N/A
Efficacy: 78.4 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): 119.3
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



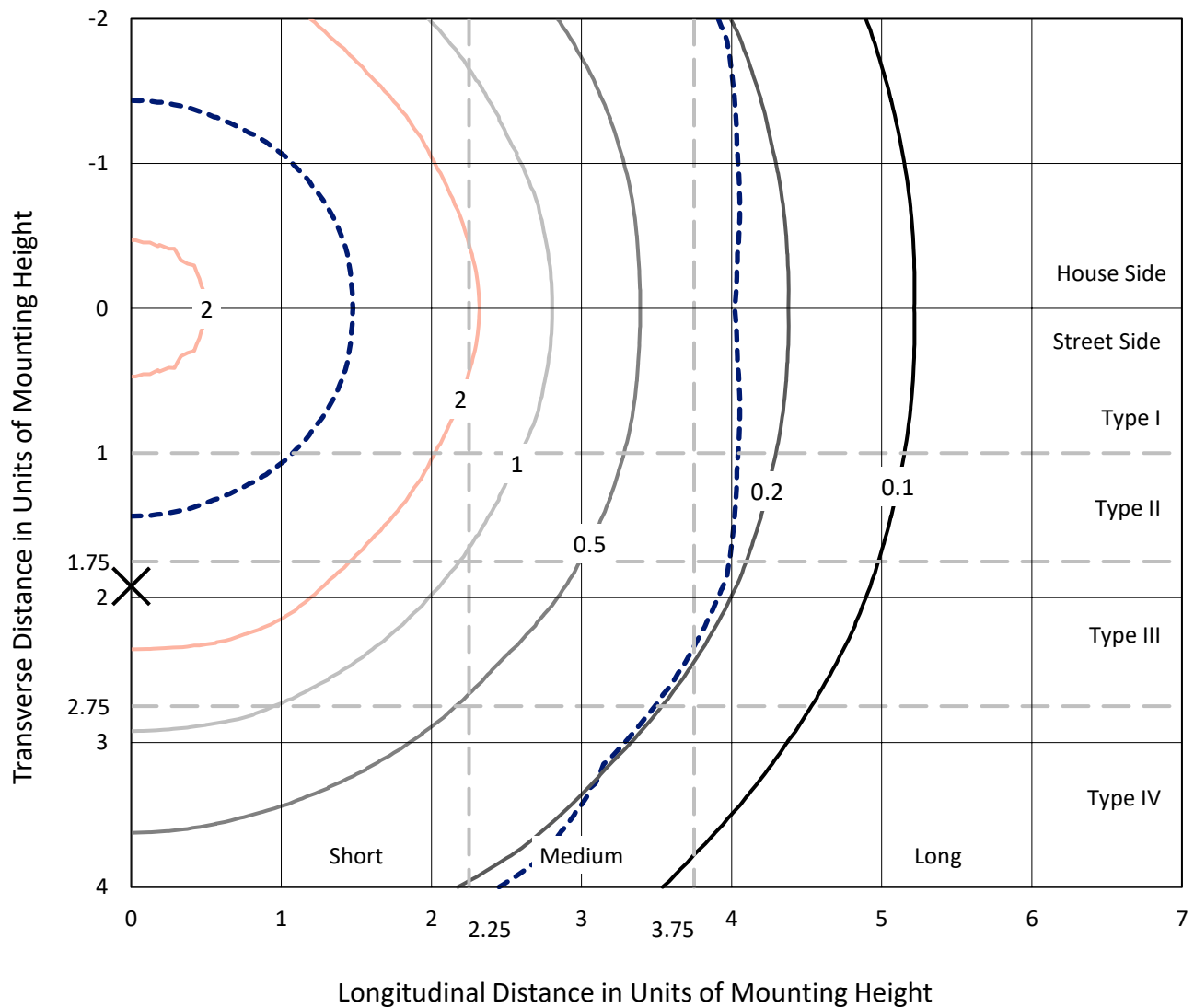
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

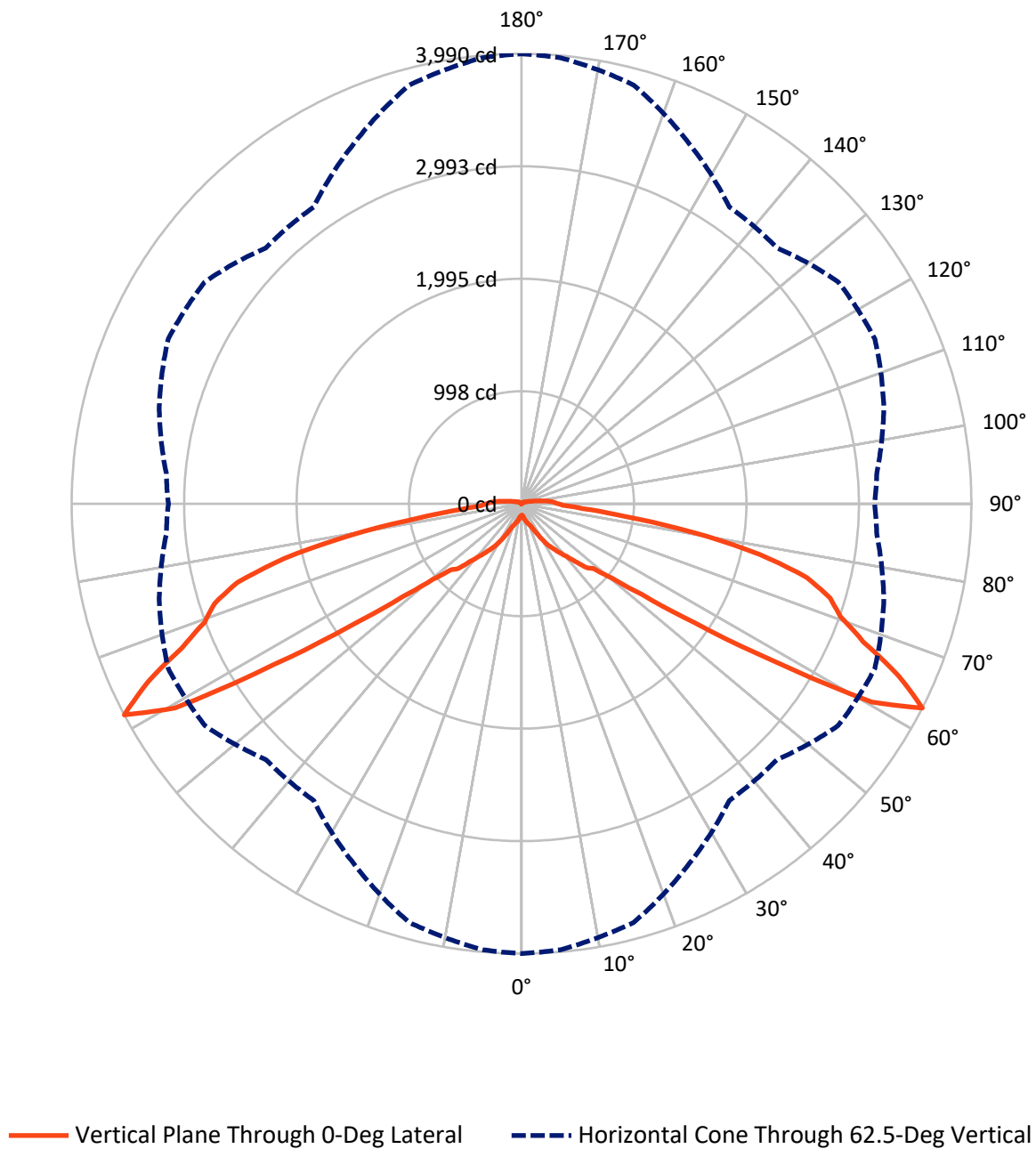


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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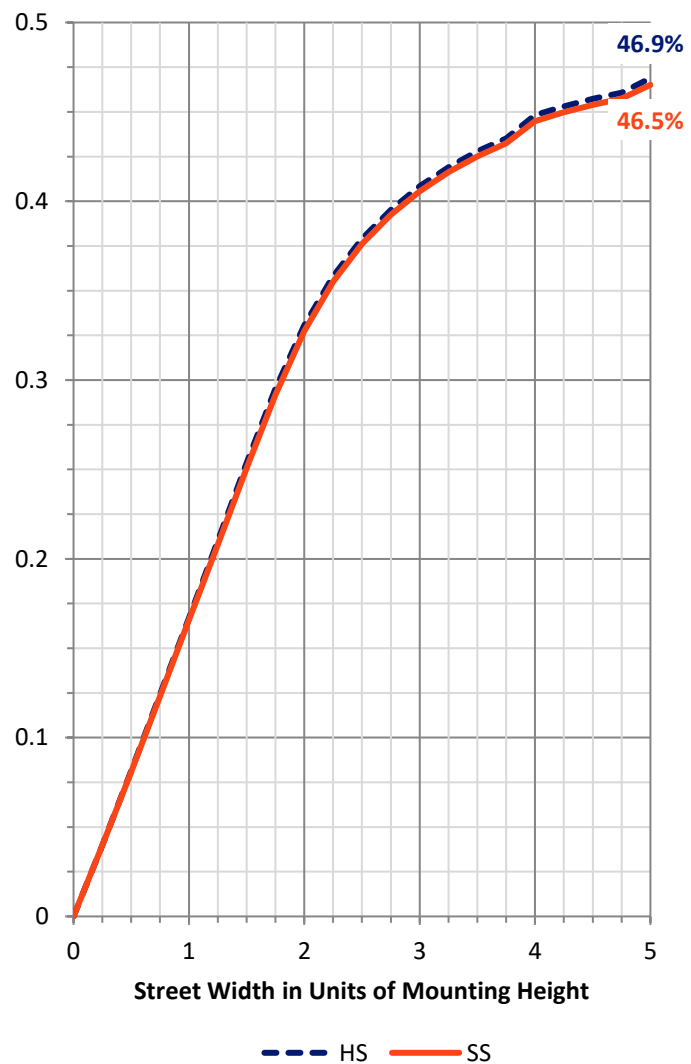
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4498.7	179.8	4678.5
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	4498.7	179.8	4678.5
	% Fixture	48.1	1.9	50.0
Total	Lumens	8997.4	359.6	9357.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.2	0.1
10°-20°	47.1	0.5
20°-30°	124.4	1.3
30°-40°	283.0	3.0
40°-50°	572.5	6.1
50°-60°	1694.6	18.1
60°-70°	3183.7	34.0
70°-80°	2366.5	25.3
80°-90°	714.4	7.6
90°-100°	231.8	2.5
100°-110°	81.2	0.9
110°-120°	31.4	0.3
120°-130°	12.4	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°	8997.4	96.2
0°-180°	9357.0	100.0

Coefficient of Utilization



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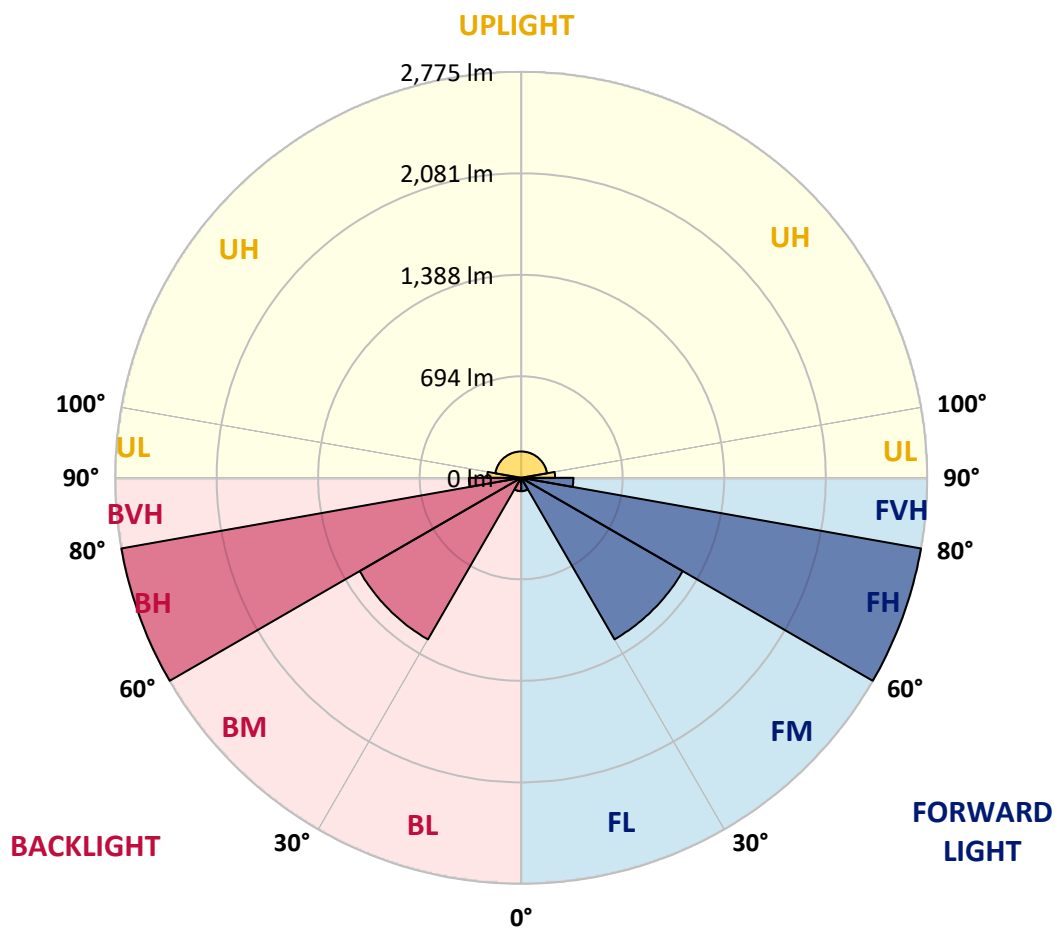
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	91.3	1.0			
FM	(30°-60°)	1275.1	13.6			
FH	(60°-80°)	2775.1	29.7			G2/5000
FVH	(80°-90°)	357.2	3.8			G3/500
BL	(0°-30°)	91.3	1.0	B0/110		
BM	(30°-60°)	1275.1	13.6	B2/2500		
BH	(60°-80°)	2775.1	29.7	B4/5000		G2/5000
BVH	(80°-90°)	357.2	3.8			G3/500
UL	(90°-100°)	231.8	2.5		U3/500	
UH	(100°-180°)	179.8	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°	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9
2.5°	104.7	104.7	104.7	102.9	101.1	101.1	101.1	101.1	99.4	99.4	99.4
5°	110.0	110.0	108.2	106.4	106.4	104.7	106.4	104.7	104.7	104.7	106.4
7.5°	122.4	122.4	120.6	120.6	120.6	118.9	118.9	118.9	118.9	117.1	118.9
10°	136.6	136.6	136.6	136.6	136.6	134.8	134.8	133.1	133.1	133.1	133.1
12.5°	152.6	150.8	150.8	152.6	150.8	149.0	149.0	149.0	147.3	147.3	147.3
15°	166.8	166.8	165.0	165.0	165.0	163.2	163.2	161.4	161.4	159.7	159.7
17.5°	181.0	181.0	179.2	177.4	177.4	177.4	175.6	175.6	173.9	173.9	173.9
20°	198.7	196.9	195.2	193.4	191.6	191.6	191.6	191.6	189.8	188.1	188.1
22.5°	218.2	216.4	214.7	212.9	212.9	211.1	211.1	209.3	209.3	207.6	205.8
25°	259.0	259.0	251.9	250.2	250.2	251.9	250.2	248.4	244.8	239.5	239.5
27.5°	314.0	315.8	317.6	326.4	324.7	312.2	305.2	301.6	299.8	299.8	301.6
30°	376.1	377.9	383.2	392.1	386.8	370.8	353.1	346.0	351.3	358.4	360.1
32.5°	441.8	441.8	431.1	418.7	406.3	395.6	390.3	386.8	385.0	379.7	379.7
35°	493.2	484.3	450.6	409.8	397.4	404.5	425.8	432.9	406.3	381.4	377.9
37.5°	551.8	550.0	523.4	493.2	470.1	466.6	489.7	496.8	468.4	452.4	450.6
40°	613.8	617.4	622.7	610.3	574.8	564.2	551.8	542.9	542.9	544.7	541.1
42.5°	697.2	702.6	702.6	704.3	675.9	651.1	626.3	612.1	610.3	624.5	629.8
45°	809.0	809.0	796.6	771.7	759.3	741.6	725.6	711.4	704.3	706.1	711.4
47.5°	858.7	862.2	851.6	816.1	807.2	789.5	766.4	761.1	764.6	770.0	771.7
50°	1032.5	1023.7	950.9	876.4	849.8	867.5	901.3	910.1	876.4	842.7	833.8
52.5°	1337.7	1335.9	1279.1	1224.1	1186.9	1176.2	1222.4	1225.9	1167.4	1142.5	1139.0
55°	1866.4	1846.9	1889.4	1916.1	1838.0	1751.1	1719.1	1674.8	1678.3	1728.0	1729.8
57.5°	2616.8	2627.5	2675.4	2606.2	2487.3	2423.5	2379.1	2295.7	2297.5	2341.8	2345.4
60°	3569.5	3567.8	3415.2	3149.1	2966.3	2978.8	3101.2	3118.9	2929.1	2806.7	2792.5
62.5°	3990.0	3970.5	3844.5	3521.6	3212.9	3207.6	3429.4	3457.8	3326.5	3163.3	3131.3
65°	3672.4	3656.5	3709.7	3599.7	3193.4	3088.8	3156.2	3149.1	3232.5	3307.0	3315.8
67.5°	3269.7	3273.3	3401.0	3367.3	3085.2	2907.8	2822.6	2812.0	2968.1	3142.0	3165.0
70°	3000.1	3000.1	3090.5	2953.9	2819.1	2703.8	2615.1	2560.1	2661.2	2689.6	2687.8
72.5°	2861.7	2849.3	2785.4	2654.1	2551.2	2450.1	2476.7	2435.9	2388.0	2313.5	2306.4
75°	2615.1	2600.9	2512.2	2450.1	2375.6	2249.6	2272.7	2231.9	2152.0	2084.6	2074.0
77.5°	2160.9	2160.9	2104.1	2058.0	2036.7	1928.5	1917.8	1898.3	1818.5	1781.2	1767.0
80°	1547.0	1543.5	1520.4	1504.5	1531.1	1467.2	1438.8	1438.8	1406.9	1373.2	1357.2
82.5°	920.8	908.4	908.4	913.7	897.7	856.9	864.0	904.8	901.3	881.7	867.5
85°	544.7	537.6	532.2	525.1	510.9	482.6	482.6	486.1	489.7	491.4	484.3
87.5°	363.7	361.9	361.9	361.9	346.0	326.4	335.3	340.6	337.1	335.3	333.5
90°	317.6	319.3	317.6	310.5	296.3	278.5	282.1	289.2	285.6	285.6	283.9
92.5°	285.6	285.6	282.1	275.0	260.8	244.8	246.6	250.2	248.4	246.6	244.8
95°	234.2	234.2	230.6	225.3	212.9	198.7	200.5	204.0	200.5	200.5	198.7
97.5°	182.7	182.7	181.0	177.4	166.8	156.1	157.9	159.7	157.9	157.9	156.1
100°	138.4	138.4	136.6	131.3	126.0	117.1	118.9	122.4	120.6	120.6	118.9
102.5°	102.9	102.9	101.1	99.4	92.3	86.9	88.7	88.7	88.7	86.9	86.9
105°	79.8	79.8	79.8	76.3	72.7	67.4	67.4	67.4	67.4	65.6	65.6
107.5°	63.9	62.1	62.1	60.3	56.8	53.2	53.2	53.2	53.2	53.2	53.2
110°	51.4	49.7	47.9	47.9	44.4	42.6	40.8	42.6	42.6	42.6	42.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	44.4	42.6	39.0	39.0	37.3	33.7	33.7	33.7	37.3	35.5	35.5
115°	39.0	37.3	31.9	31.9	30.2	28.4	28.4	28.4	31.9	28.4	28.4
117.5°	33.7	31.9	26.6	26.6	24.8	23.1	23.1	23.1	26.6	23.1	23.1
120°	24.8	24.8	21.3	21.3	21.3	19.5	19.5	19.5	21.3	19.5	19.5
122.5°	19.5	19.5	17.7	17.7	17.7	16.0	16.0	16.0	16.0	14.2	14.2
125°	19.5	23.1	14.2	14.2	12.4	12.4	12.4	10.6	12.4	10.6	10.6
127.5°	21.3	19.5	10.6	10.6	10.6	8.9	8.9	8.9	8.9	8.9	8.9
130°	7.1	10.6	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	3.5	3.5	3.5	3.5	3.5
135°	3.5	3.5	3.5	3.5	3.5	3.5	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)