

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: P588369

Luminaire Tested: **ARC-CA6-100-760-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588369
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-CA6-100-760-U-55-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR
Light Source: (6) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9594 lumens
Efficiency: N/A
Efficacy: 92.5 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



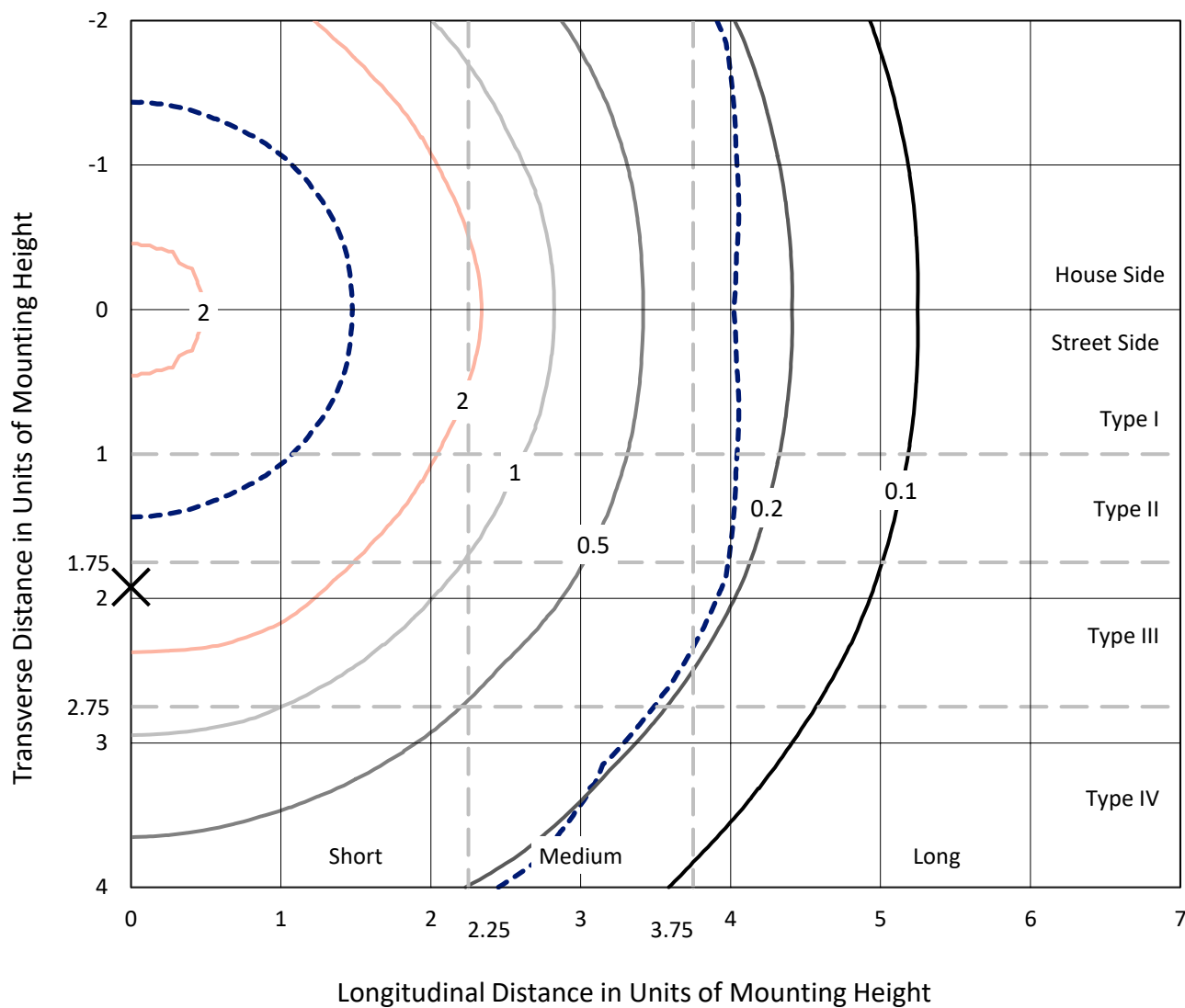
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

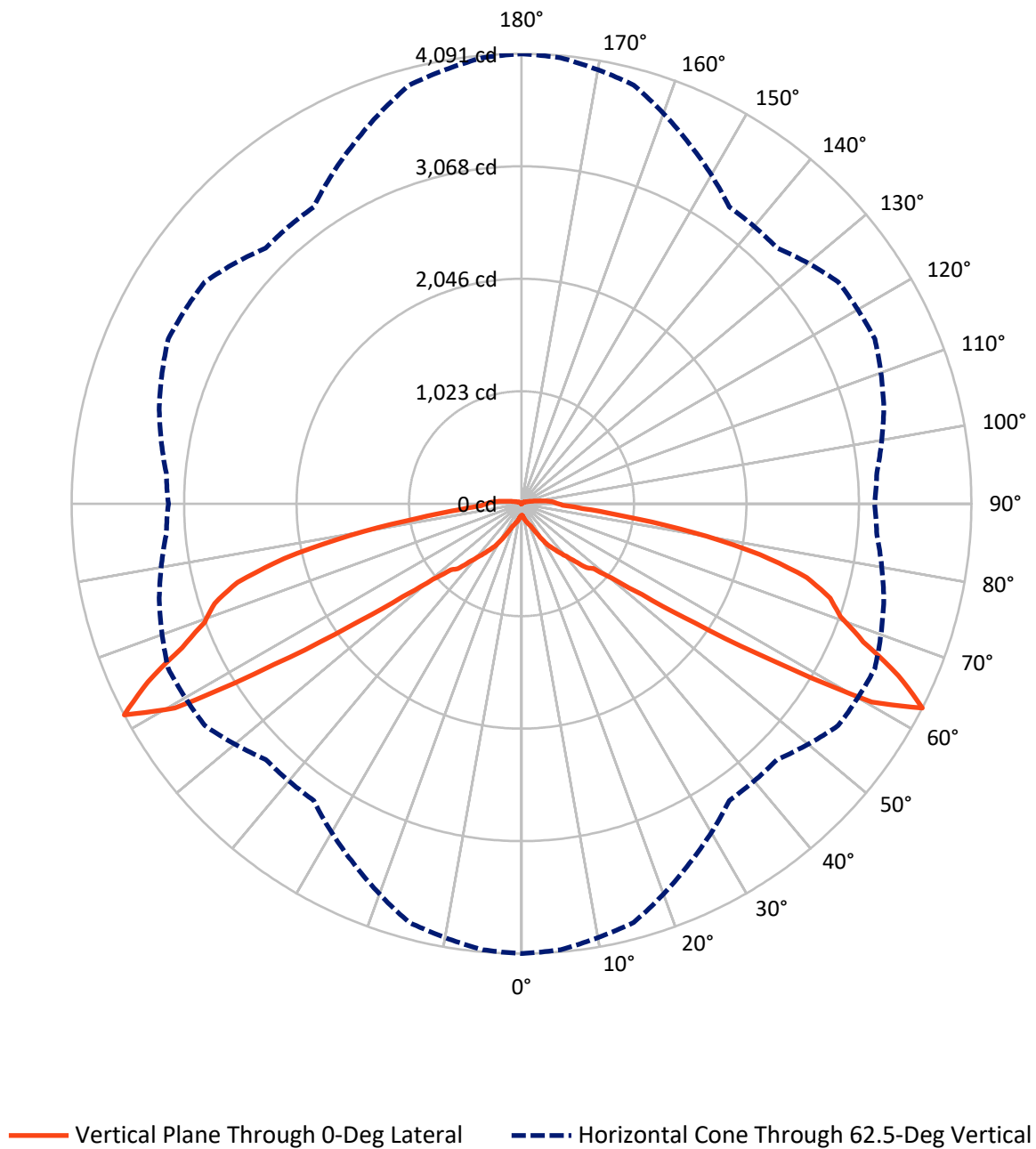


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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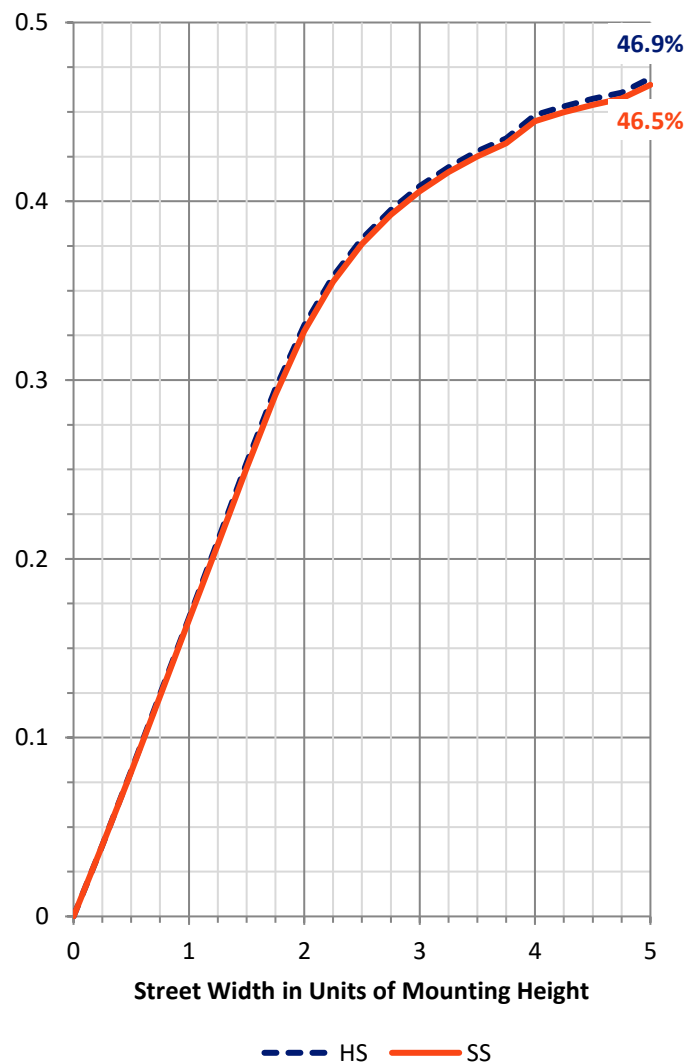
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4612.6	184.4	4797.0
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	4612.6	184.4	4797.0
	% Fixture	48.1	1.9	50.0
Total	Lumens	9225.3	368.7	9594.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.4	0.1
10°-20°	48.3	0.5
20°-30°	127.5	1.3
30°-40°	290.2	3.0
40°-50°	587.0	6.1
50°-60°	1737.6	18.1
60°-70°	3264.3	34.0
70°-80°	2426.4	25.3
80°-90°	732.5	7.6
90°-100°	237.7	2.5
100°-110°	83.3	0.9
110°-120°	32.2	0.3
120°-130°	12.7	0.1
130°-140°	2.6	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°	9225.3	96.2
0°-180°	9594.0	100.0

Coefficient of Utilization



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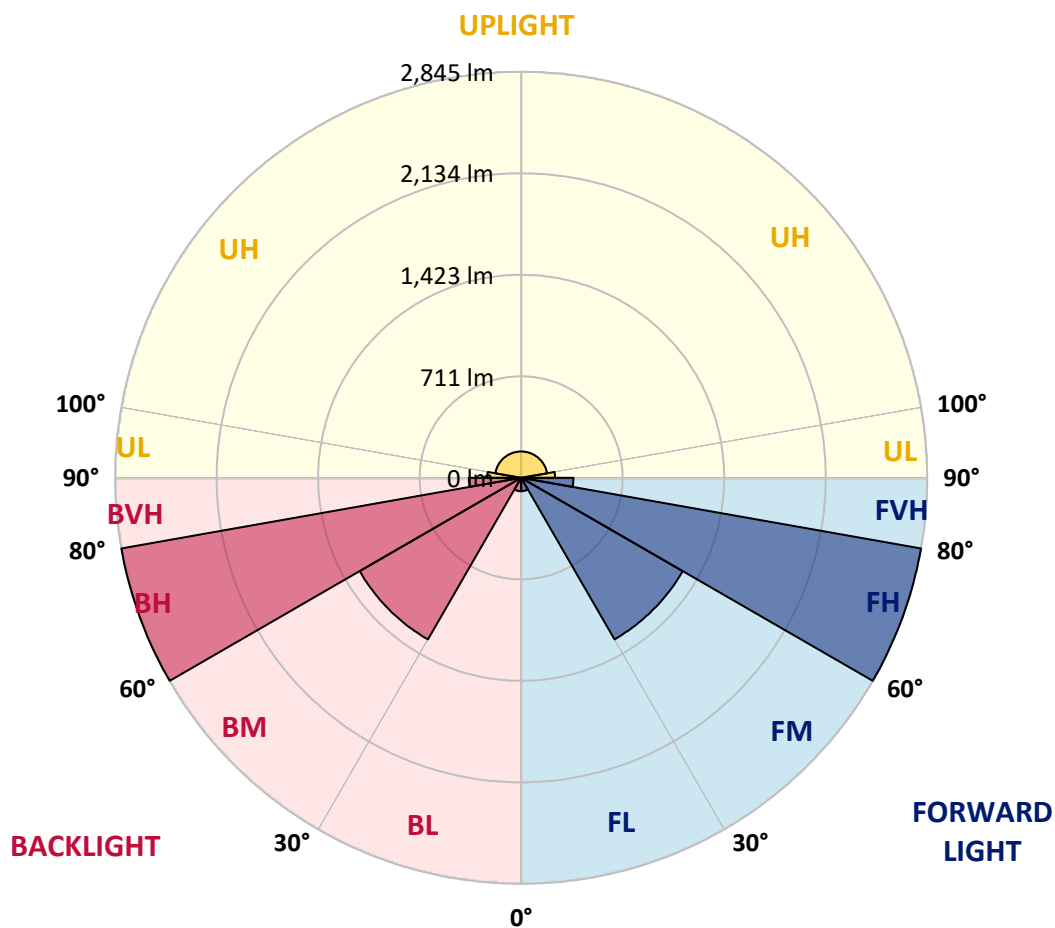
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	93.7	1.0			
FM	(30°-60°)	1307.4	13.6			
FH	(60°-80°)	2845.4	29.7			G2/5000
FVH	(80°-90°)	366.2	3.8			G3/500
BL	(0°-30°)	93.7	1.0	B0/110		
BM	(30°-60°)	1307.4	13.6	B2/2500		
BH	(60°-80°)	2845.4	29.7	B4/5000		G2/5000
BVH	(80°-90°)	366.2	3.8			G3/500
UL	(90°-100°)	237.7	2.5		U3/500	
UH	(100°-180°)	184.4	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°	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5
2.5°	107.3	107.3	107.3	105.5	103.7	103.7	103.7	103.7	101.9	101.9	101.9
5°	112.8	112.8	111.0	109.1	109.1	107.3	109.1	107.3	107.3	107.3	109.1
7.5°	125.5	125.5	123.7	123.7	123.7	121.9	121.9	121.9	121.9	120.1	121.9
10°	140.1	140.1	140.1	140.1	140.1	138.2	138.2	136.4	136.4	136.4	136.4
12.5°	156.4	154.6	154.6	156.4	154.6	152.8	152.8	152.8	151.0	151.0	151.0
15°	171.0	171.0	169.2	169.2	169.2	167.4	167.4	165.5	165.5	163.7	163.7
17.5°	185.5	185.5	183.7	181.9	181.9	181.9	180.1	180.1	178.3	178.3	178.3
20°	203.7	201.9	200.1	198.3	196.5	196.5	196.5	196.5	194.6	192.8	192.8
22.5°	223.7	221.9	220.1	218.3	218.3	216.5	216.5	214.6	214.6	212.8	211.0
25°	265.6	265.6	258.3	256.5	256.5	258.3	256.5	254.7	251.0	245.6	245.6
27.5°	322.0	323.8	325.6	334.7	332.9	320.2	312.9	309.2	307.4	307.4	309.2
30°	385.6	387.5	392.9	402.0	396.6	380.2	362.0	354.7	360.2	367.5	369.3
32.5°	452.9	452.9	442.0	429.3	416.6	405.7	400.2	396.6	394.7	389.3	389.3
35°	505.7	496.6	462.0	420.2	407.5	414.7	436.6	443.9	416.6	391.1	387.5
37.5°	565.7	563.9	536.6	505.7	482.1	478.4	502.1	509.3	480.2	463.9	462.0
40°	629.4	633.0	638.5	625.8	589.4	578.5	565.7	556.6	556.6	558.5	554.8
42.5°	714.9	720.3	720.3	722.2	693.1	667.6	642.1	627.6	625.8	640.3	645.8
45°	829.5	829.5	816.8	791.3	778.6	760.4	744.0	729.4	722.2	724.0	729.4
47.5°	880.4	884.1	873.2	836.8	827.7	809.5	785.8	780.4	784.0	789.5	791.3
50°	1058.7	1049.6	975.0	898.6	871.3	889.5	924.1	933.2	898.6	864.1	855.0
52.5°	1371.6	1369.8	1311.5	1255.2	1217.0	1206.0	1253.3	1257.0	1196.9	1171.5	1167.8
55°	1913.7	1893.6	1937.3	1964.6	1884.6	1795.4	1762.7	1717.2	1720.8	1771.8	1773.6
57.5°	2683.1	2694.0	2743.1	2672.2	2550.3	2484.8	2439.4	2353.9	2355.7	2401.2	2404.8
60°	3660.0	3658.1	3501.7	3228.8	3041.5	3054.2	3179.7	3197.9	3003.3	2877.8	2863.2
62.5°	4091.1	4071.1	3941.9	3610.8	3294.3	3288.9	3516.3	3545.4	3410.7	3243.4	3210.6
65°	3765.5	3749.1	3803.7	3690.9	3274.3	3167.0	3236.1	3228.8	3314.3	3390.7	3399.8
67.5°	3352.5	3356.2	3487.1	3452.6	3163.4	2981.4	2894.1	2883.2	3043.3	3221.6	3245.2
70°	3076.0	3076.0	3168.8	3028.7	2890.5	2772.3	2681.3	2624.9	2728.6	2757.7	2755.9
72.5°	2934.2	2921.4	2855.9	2721.3	2615.8	2512.1	2539.4	2497.6	2448.5	2372.1	2364.8
75°	2681.3	2666.7	2575.8	2512.1	2435.7	2306.6	2330.2	2288.4	2206.5	2137.4	2126.5
77.5°	2215.6	2215.6	2157.4	2110.1	2088.3	1977.3	1966.4	1946.4	1864.5	1826.3	1811.8
80°	1586.2	1582.6	1558.9	1542.6	1569.9	1504.4	1475.3	1475.3	1442.5	1408.0	1391.6
82.5°	944.1	931.4	931.4	936.8	920.4	878.6	885.9	927.7	924.1	904.1	889.5
85°	558.5	551.2	545.7	538.4	523.9	494.8	494.8	498.4	502.1	503.9	496.6
87.5°	372.9	371.1	371.1	371.1	354.7	334.7	343.8	349.3	345.6	343.8	342.0
90°	325.6	327.4	325.6	318.3	303.8	285.6	289.2	296.5	292.9	292.9	291.1
92.5°	292.9	292.9	289.2	282.0	267.4	251.0	252.9	256.5	254.7	252.9	251.0
95°	240.1	240.1	236.5	231.0	218.3	203.7	205.6	209.2	205.6	205.6	203.7
97.5°	187.4	187.4	185.5	181.9	171.0	160.1	161.9	163.7	161.9	161.9	160.1
100°	141.9	141.9	140.1	134.6	129.2	120.1	121.9	125.5	123.7	123.7	121.9
102.5°	105.5	105.5	103.7	101.9	94.6	89.1	91.0	91.0	91.0	89.1	89.1
105°	81.9	81.9	81.9	78.2	74.6	69.1	69.1	69.1	69.1	67.3	67.3
107.5°	65.5	63.7	63.7	61.8	58.2	54.6	54.6	54.6	54.6	54.6	54.6
110°	52.8	50.9	49.1	49.1	45.5	43.7	41.8	43.7	43.7	43.7	43.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	45.5	43.7	40.0	40.0	38.2	34.6	34.6	34.6	38.2	36.4	36.4
115°	40.0	38.2	32.7	32.7	30.9	29.1	29.1	29.1	32.7	29.1	29.1
117.5°	34.6	32.7	27.3	27.3	25.5	23.6	23.6	23.6	27.3	23.6	23.6
120°	25.5	25.5	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	16.4	16.4	16.4	16.4	14.6	14.6
125°	20.0	23.6	14.6	14.6	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	5.5	5.5	5.5
132.5°	5.5	5.5	5.5	5.5	5.5	5.5	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)