

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: P588557

Luminaire Tested: **ARC-CA6-90-750-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588557
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-CA6-90-750-U-55-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR
Light Source: (6) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8976 lumens
Efficiency: N/A
Efficacy: 95.6 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): 93.9
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

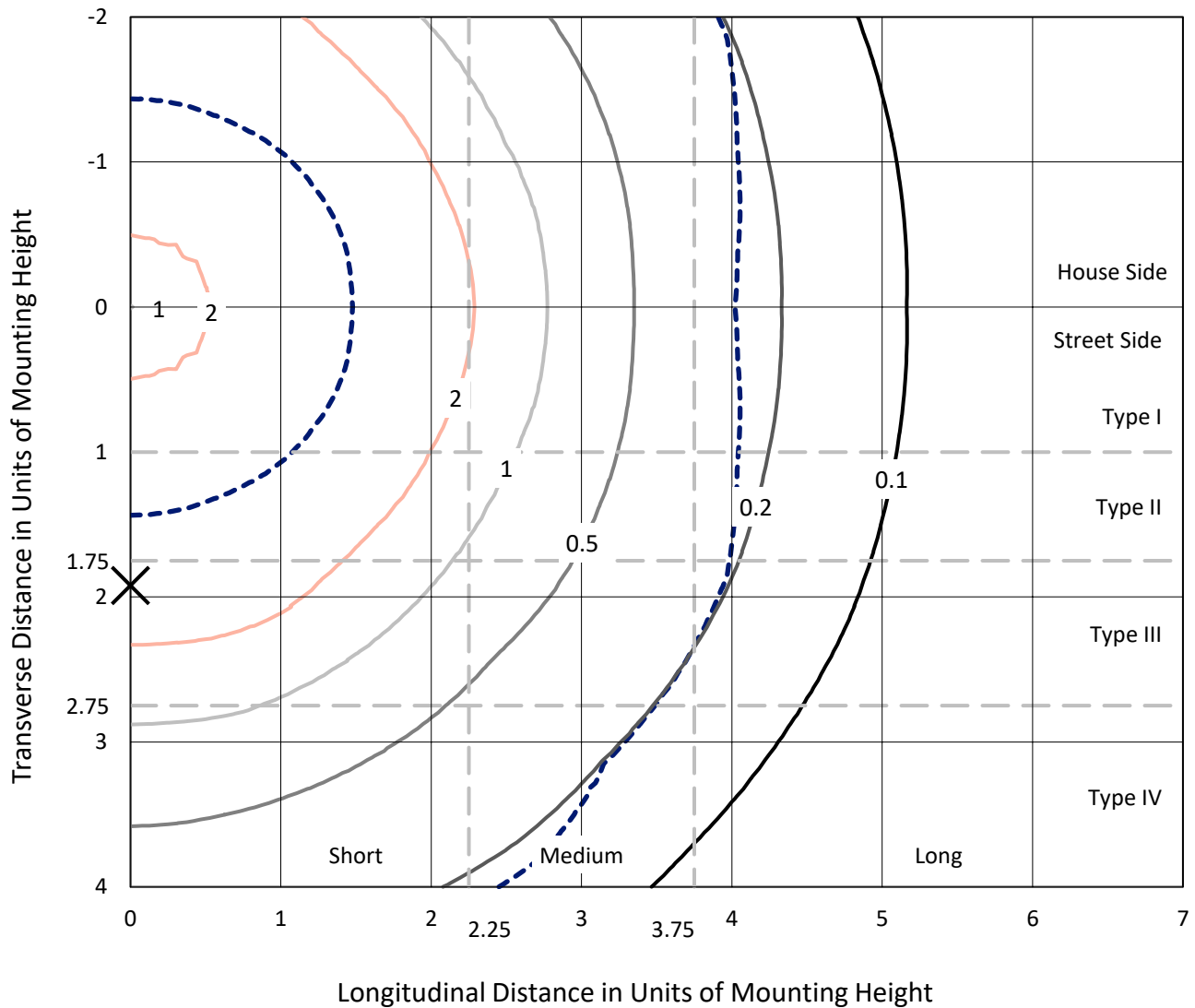


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

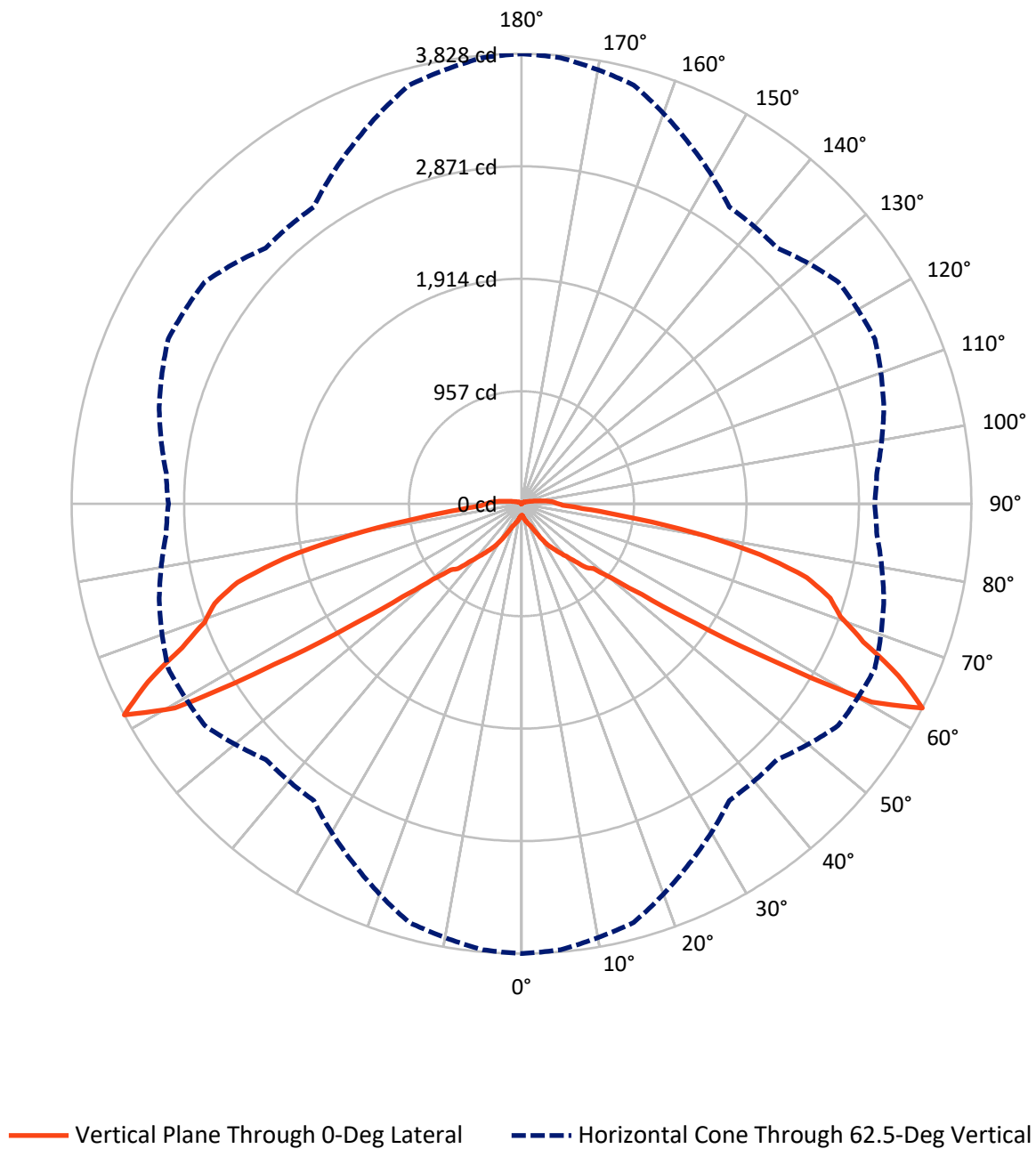


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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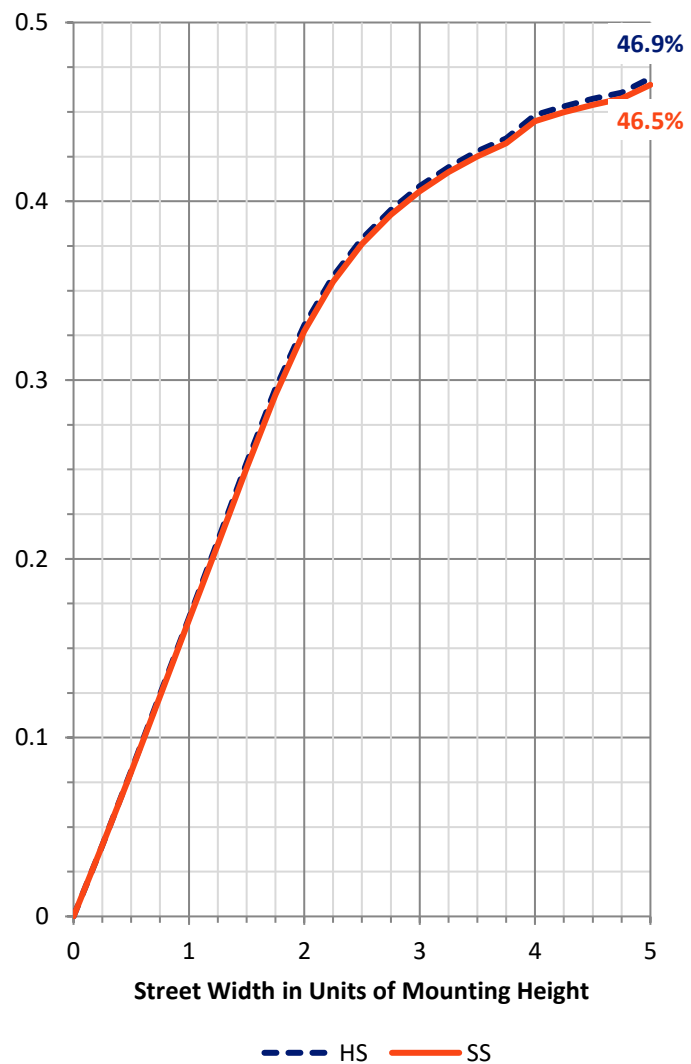
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4315.5	172.5	4488.0
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	4315.5	172.5	4488.0
	% Fixture	48.1	1.9	50.0
Total	Lumens	8631.0	344.9	8976.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.7	0.1
10°-20°	45.2	0.5
20°-30°	119.3	1.3
30°-40°	271.5	3.0
40°-50°	549.2	6.1
50°-60°	1625.6	18.1
60°-70°	3054.1	34.0
70°-80°	2270.1	25.3
80°-90°	685.3	7.6
90°-100°	222.4	2.5
100°-110°	77.9	0.9
110°-120°	30.1	0.3
120°-130°	11.9	0.1
130°-140°	2.4	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°	8631.0	96.2
0°-180°	8976.0	100.0

Coefficient of Utilization



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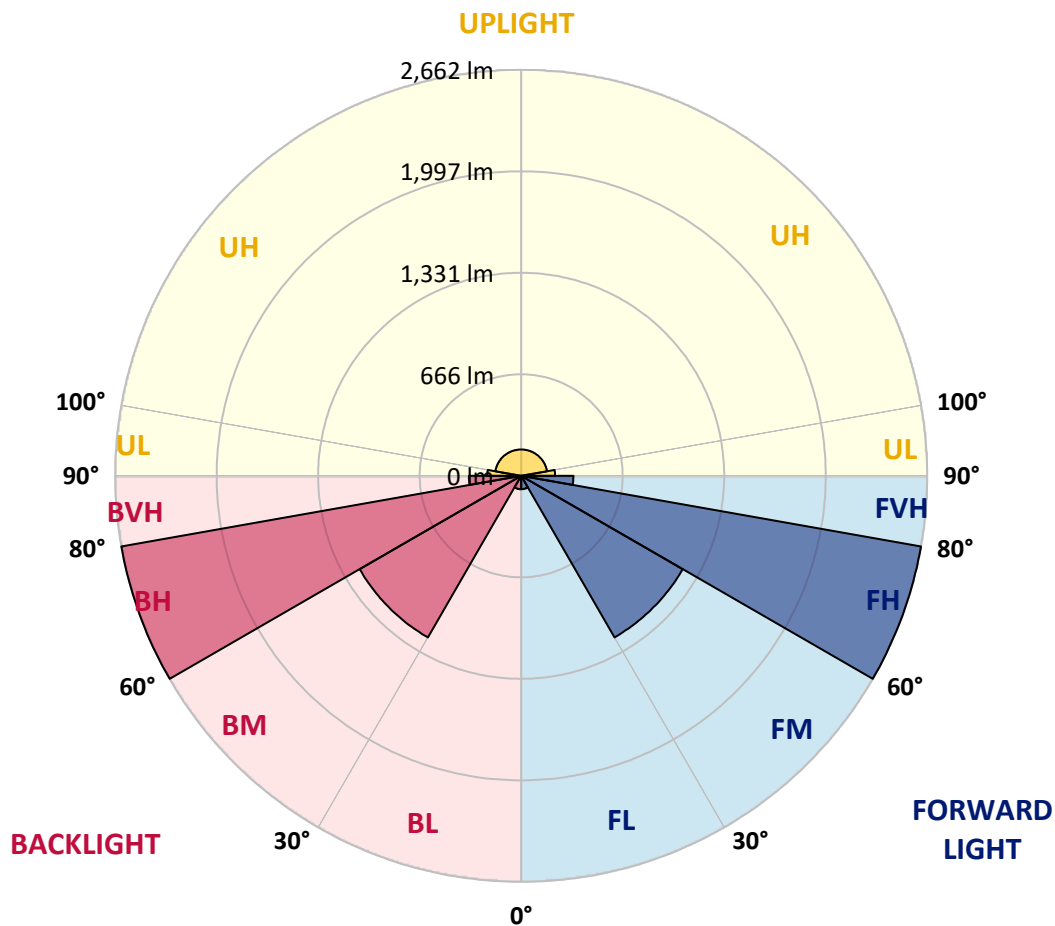
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	87.6	1.0			
FM	(30°-60°)	1223.2	13.6			
FH	(60°-80°)	2662.1	29.7			G2/5000
FVH	(80°-90°)	342.7	3.8			G3/500
BL	(0°-30°)	87.6	1.0	B0/110		
BM	(30°-60°)	1223.2	13.6	B2/2500		
BH	(60°-80°)	2662.1	29.7	B4/5000		G2/5000
BVH	(80°-90°)	342.7	3.8			G3/500
UL	(90°-100°)	222.4	2.5		U3/500	
UH	(100°-180°)	172.5	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°	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
2.5°	100.4	100.4	100.4	98.7	97.0	97.0	97.0	97.0	95.3	95.3	95.3
5°	105.5	105.5	103.8	102.1	102.1	100.4	102.1	100.4	100.4	100.4	102.1
7.5°	117.4	117.4	115.7	115.7	115.7	114.0	114.0	114.0	114.0	112.3	114.0
10°	131.0	131.0	131.0	131.0	131.0	129.3	129.3	127.6	127.6	127.6	127.6
12.5°	146.4	144.7	144.7	146.4	144.7	143.0	143.0	143.0	141.3	141.3	141.3
15°	160.0	160.0	158.3	158.3	158.3	156.6	156.6	154.9	154.9	153.2	153.2
17.5°	173.6	173.6	171.9	170.2	170.2	170.2	168.5	168.5	166.8	166.8	166.8
20°	190.6	188.9	187.2	185.5	183.8	183.8	183.8	183.8	182.1	180.4	180.4
22.5°	209.3	207.6	205.9	204.2	204.2	202.5	202.5	200.8	200.8	199.1	197.4
25°	248.5	248.5	241.7	240.0	240.0	241.7	240.0	238.3	234.9	229.8	229.8
27.5°	301.2	302.9	304.6	313.1	311.4	299.5	292.7	289.3	287.6	287.6	289.3
30°	360.8	362.5	367.6	376.1	371.0	355.7	338.7	331.9	337.0	343.8	345.5
32.5°	423.8	423.8	413.6	401.6	389.7	379.5	374.4	371.0	369.3	364.2	364.2
35°	473.1	464.6	432.3	393.1	381.2	388.0	408.5	415.3	389.7	365.9	362.5
37.5°	529.3	527.6	502.1	473.1	451.0	447.6	469.7	476.5	449.3	434.0	432.3
40°	588.9	592.3	597.4	585.4	551.4	541.2	529.3	520.8	520.8	522.5	519.1
42.5°	668.8	673.9	673.9	675.7	648.4	624.6	600.8	587.2	585.4	599.1	604.2
45°	776.1	776.1	764.1	740.3	728.4	711.4	696.1	682.5	675.7	677.4	682.5
47.5°	823.7	827.1	816.9	782.9	774.4	757.3	735.2	730.1	733.5	738.6	740.3
50°	990.5	982.0	912.2	840.7	815.2	832.2	864.6	873.1	840.7	808.4	799.9
52.5°	1283.2	1281.5	1227.1	1174.3	1138.6	1128.4	1172.6	1176.0	1119.8	1096.0	1092.6
55°	1790.4	1771.7	1812.5	1838.0	1763.2	1679.8	1649.1	1606.6	1610.0	1657.6	1659.3
57.5°	2510.3	2520.5	2566.4	2500.1	2386.0	2324.8	2282.2	2202.2	2203.9	2246.5	2249.9
60°	3424.2	3422.5	3276.1	3020.9	2845.6	2857.5	2974.9	2991.9	2809.8	2692.4	2678.8
62.5°	3827.5	3808.8	3688.0	3378.3	3082.1	3077.0	3289.8	3317.0	3191.0	3034.5	3003.8
65°	3522.9	3507.6	3558.7	3453.1	3063.4	2963.0	3027.7	3020.9	3100.8	3172.3	3180.8
67.5°	3136.6	3140.0	3262.5	3230.2	2959.6	2789.4	2707.7	2697.5	2847.3	3014.0	3036.2
70°	2877.9	2877.9	2964.7	2833.6	2704.3	2593.7	2508.6	2455.8	2552.8	2580.1	2578.4
72.5°	2745.1	2733.2	2672.0	2546.0	2447.3	2350.3	2375.8	2336.7	2290.7	2219.3	2212.5
75°	2508.6	2495.0	2409.9	2350.3	2278.8	2158.0	2180.1	2141.0	2064.4	1999.7	1989.5
77.5°	2072.9	2072.9	2018.4	1974.2	1953.8	1850.0	1839.7	1821.0	1744.4	1708.7	1695.1
80°	1484.0	1480.6	1458.5	1443.2	1468.7	1407.5	1380.2	1380.2	1349.6	1317.3	1301.9
82.5°	883.3	871.4	871.4	876.5	861.2	822.0	828.8	868.0	864.6	845.8	832.2
85°	522.5	515.7	510.6	503.8	490.1	462.9	462.9	466.3	469.7	471.4	464.6
87.5°	348.9	347.2	347.2	347.2	331.9	313.1	321.7	326.8	323.4	321.7	320.0
90°	304.6	306.3	304.6	297.8	284.2	267.2	270.6	277.4	274.0	274.0	272.3
92.5°	274.0	274.0	270.6	263.8	250.2	234.9	236.6	240.0	238.3	236.6	234.9
95°	224.6	224.6	221.2	216.1	204.2	190.6	192.3	195.7	192.3	192.3	190.6
97.5°	175.3	175.3	173.6	170.2	160.0	149.8	151.5	153.2	151.5	151.5	149.8
100°	132.7	132.7	131.0	125.9	120.8	112.3	114.0	117.4	115.7	115.7	114.0
102.5°	98.7	98.7	97.0	95.3	88.5	83.4	85.1	85.1	85.1	83.4	83.4
105°	76.6	76.6	76.6	73.2	69.8	64.7	64.7	64.7	64.7	63.0	63.0
107.5°	61.3	59.6	59.6	57.9	54.5	51.1	51.1	51.1	51.1	51.1	51.1
110°	49.4	47.7	46.0	46.0	42.5	40.8	39.1	40.8	40.8	40.8	40.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	42.5	40.8	37.4	37.4	35.7	32.3	32.3	32.3	35.7	34.0	34.0
115°	37.4	35.7	30.6	30.6	28.9	27.2	27.2	27.2	30.6	27.2	27.2
117.5°	32.3	30.6	25.5	25.5	23.8	22.1	22.1	22.1	25.5	22.1	22.1
120°	23.8	23.8	20.4	20.4	20.4	18.7	18.7	18.7	20.4	18.7	18.7
122.5°	18.7	18.7	17.0	17.0	17.0	15.3	15.3	15.3	15.3	13.6	13.6
125°	18.7	22.1	13.6	13.6	11.9	11.9	11.9	10.2	11.9	10.2	10.2
127.5°	20.4	18.7	10.2	10.2	10.2	8.5	8.5	8.5	8.5	8.5	8.5
130°	6.8	10.2	6.8	6.8	6.8	6.8	6.8	6.8	5.1	5.1	5.1
132.5°	5.1	5.1	5.1	5.1	5.1	5.1	3.4	3.4	3.4	3.4	3.4
135°	3.4	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7
137.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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	1.7	1.7	1.7	1.7	1.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7
170°	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7
172.5°	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
175°	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7
177.5°	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
180°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7

(END OF REPORT)