

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: P588353

Luminaire Tested: **ARC-CA6-100-727-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588353
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-CA6-100-727-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: 9000 lumens
Efficiency: N/A
Efficacy: 86.8 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



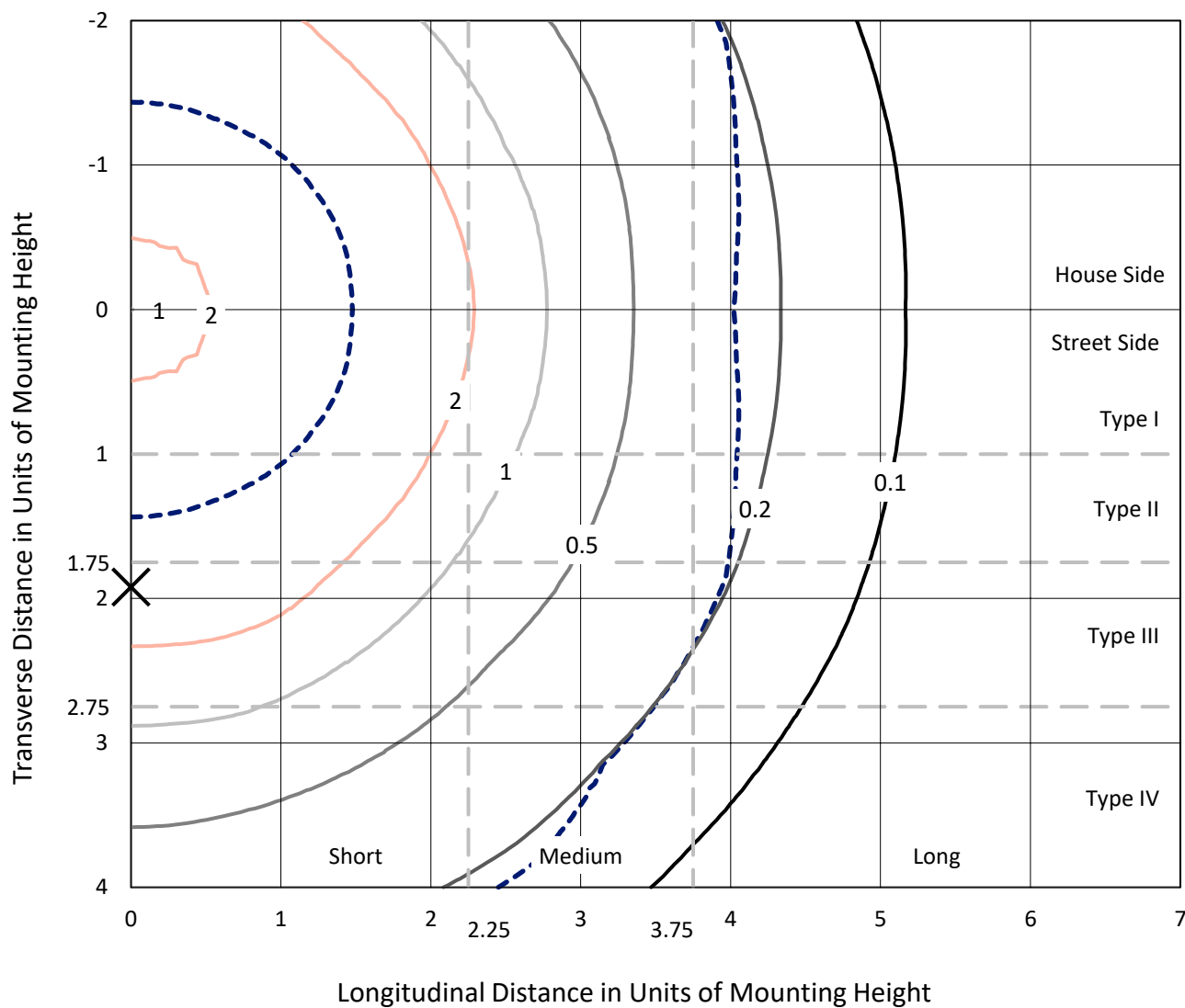
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

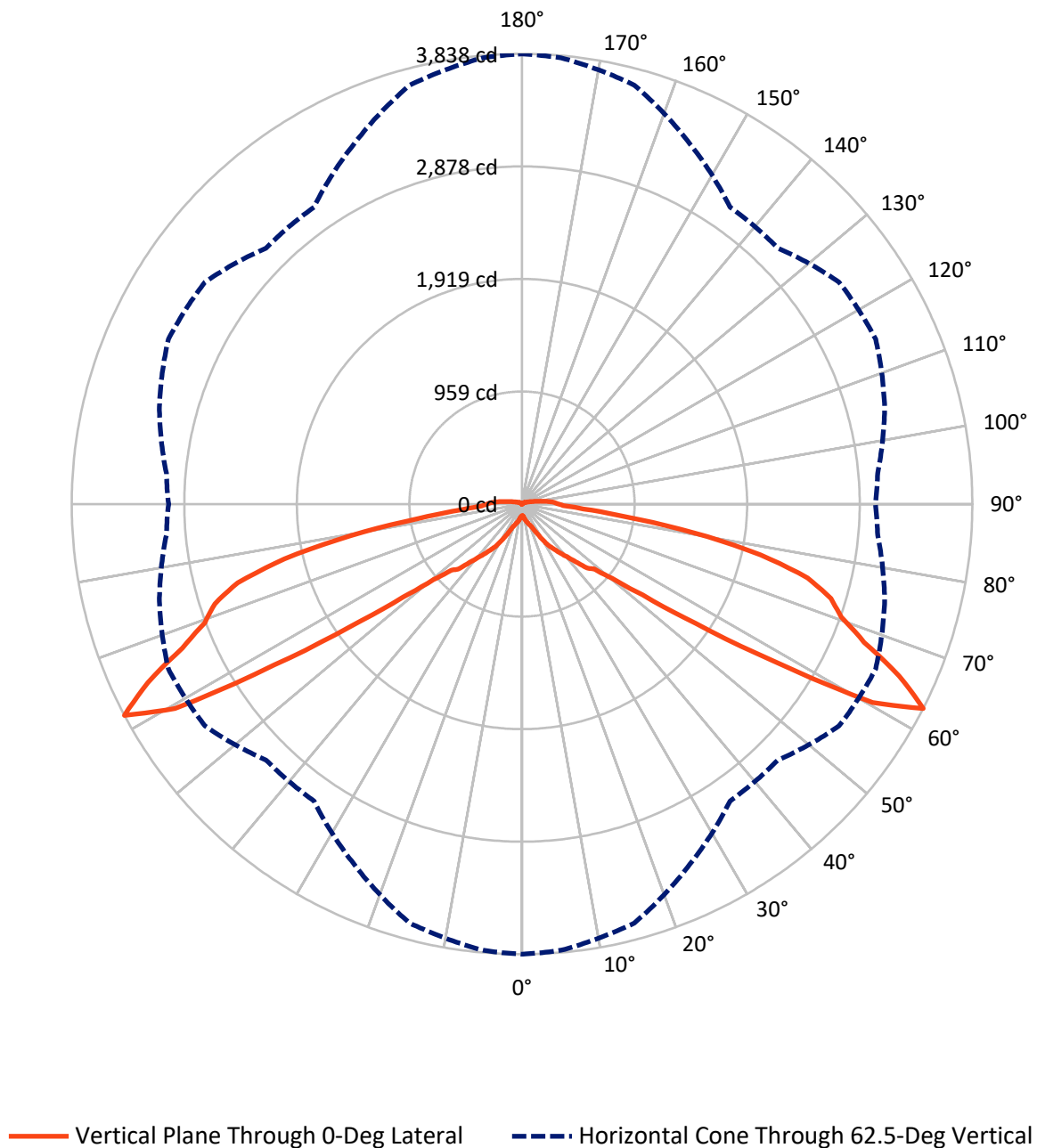


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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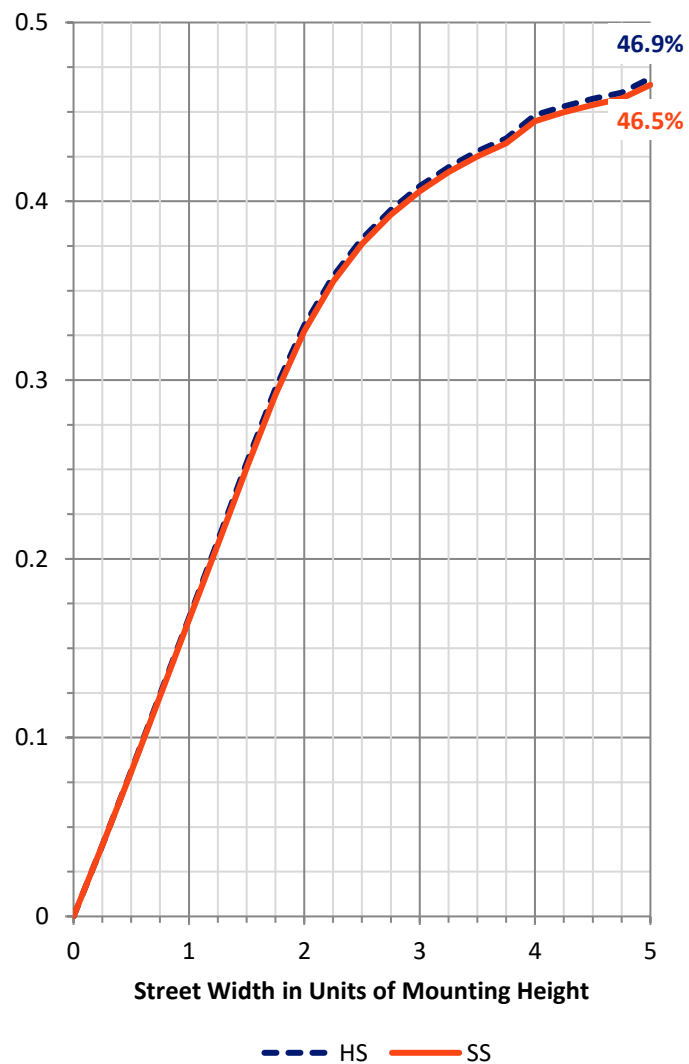
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4327.1	172.9	4500.0
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	4327.1	172.9	4500.0
	% Fixture	48.1	1.9	50.0
Total	Lumens	8654.1	345.9	9000.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.7	0.1
10°-20°	45.3	0.5
20°-30°	119.6	1.3
30°-40°	272.2	3.0
40°-50°	550.6	6.1
50°-60°	1630.0	18.1
60°-70°	3062.2	34.0
70°-80°	2276.2	25.3
80°-90°	687.1	7.6
90°-100°	223.0	2.5
100°-110°	78.1	0.9
110°-120°	30.2	0.3
120°-130°	12.0	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°	8654.1	96.2
0°-180°	9000.0	100.0

Coefficient of Utilization



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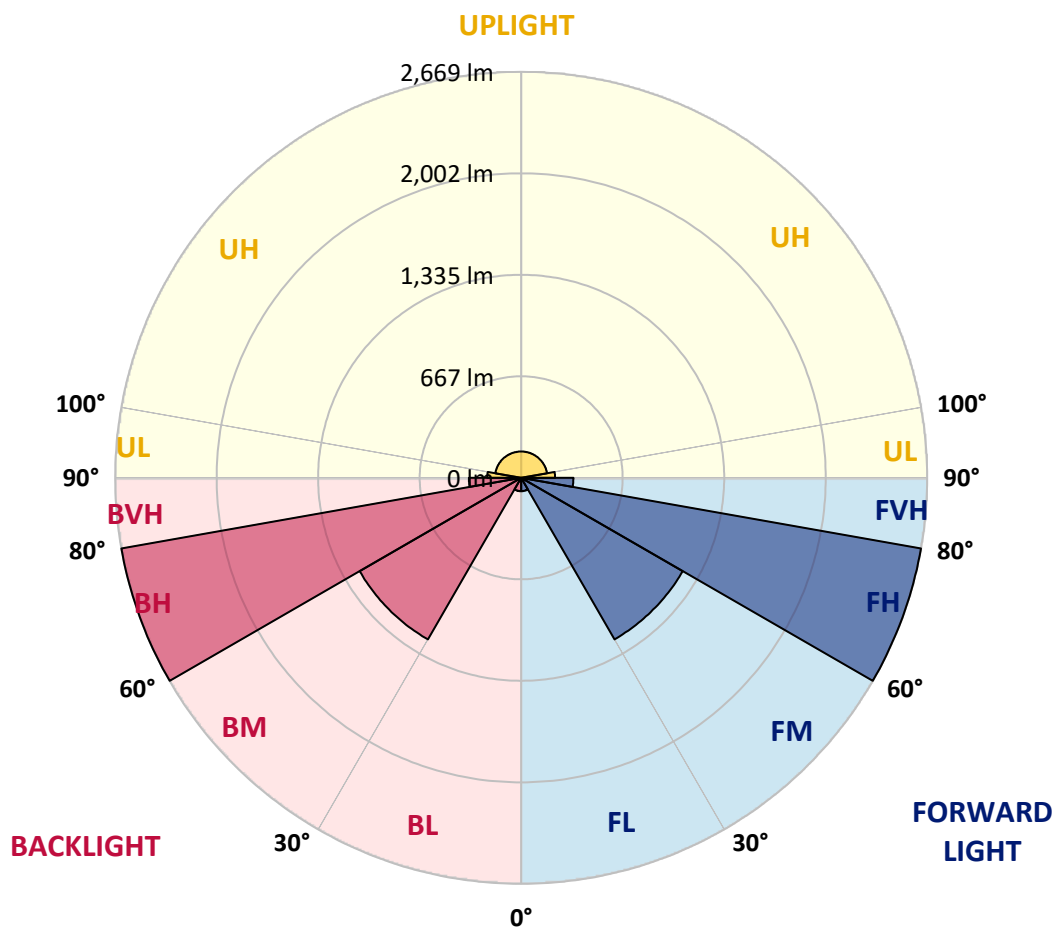
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	87.9	1.0			
FM	(30°-60°)	1226.4	13.6			
FH	(60°-80°)	2669.2	29.7			G2/5000
FVH	(80°-90°)	343.6	3.8			G3/500
BL	(0°-30°)	87.9	1.0	B0/110		
BM	(30°-60°)	1226.4	13.6	B2/2500		
BH	(60°-80°)	2669.2	29.7	B4/5000		G2/5000
BVH	(80°-90°)	343.6	3.8			G3/500
UL	(90°-100°)	223.0	2.5		U3/500	
UH	(100°-180°)	172.9	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°	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
2.5°	100.7	100.7	100.7	99.0	97.3	97.3	97.3	97.3	95.6	95.6	95.6
5°	105.8	105.8	104.1	102.4	102.4	100.7	102.4	100.7	100.7	100.7	102.4
7.5°	117.7	117.7	116.0	116.0	116.0	114.3	114.3	114.3	114.3	112.6	114.3
10°	131.4	131.4	131.4	131.4	131.4	129.7	129.7	128.0	128.0	128.0	128.0
12.5°	146.8	145.0	145.0	146.8	145.0	143.3	143.3	143.3	141.6	141.6	141.6
15°	160.4	160.4	158.7	158.7	158.7	157.0	157.0	155.3	155.3	153.6	153.6
17.5°	174.1	174.1	172.4	170.6	170.6	170.6	168.9	168.9	167.2	167.2	167.2
20°	191.1	189.4	187.7	186.0	184.3	184.3	184.3	184.3	182.6	180.9	180.9
22.5°	209.9	208.2	206.5	204.8	204.8	203.1	203.1	201.4	201.4	199.7	197.9
25°	249.1	249.1	242.3	240.6	240.6	242.3	240.6	238.9	235.5	230.4	230.4
27.5°	302.0	303.7	305.5	314.0	312.3	300.3	293.5	290.1	288.4	288.4	290.1
30°	361.8	363.5	368.6	377.1	372.0	356.6	339.6	332.8	337.9	344.7	346.4
32.5°	424.9	424.9	414.7	402.7	390.8	380.5	375.4	372.0	370.3	365.2	365.2
35°	474.4	465.9	433.4	394.2	382.2	389.1	409.5	416.4	390.8	366.9	363.5
37.5°	530.7	529.0	503.4	474.4	452.2	448.8	471.0	477.8	450.5	435.1	433.4
40°	590.4	593.8	599.0	587.0	552.9	542.6	530.7	522.2	522.2	523.9	520.5
42.5°	670.6	675.8	675.8	677.5	650.2	626.3	602.4	588.7	587.0	600.7	605.8
45°	778.1	778.1	766.2	742.3	730.4	713.3	697.9	684.3	677.5	679.2	684.3
47.5°	825.9	829.3	819.1	785.0	776.4	759.4	737.2	732.1	735.5	740.6	742.3
50°	993.1	984.6	914.7	843.0	817.4	834.4	866.9	875.4	843.0	810.6	802.0
52.5°	1286.7	1284.9	1230.3	1177.4	1141.6	1131.4	1175.7	1179.1	1122.8	1098.9	1095.5
55°	1795.2	1776.4	1817.4	1843.0	1767.9	1684.3	1653.5	1610.9	1614.3	1662.1	1663.8
57.5°	2517.0	2527.2	2573.3	2506.8	2392.4	2331.0	2288.3	2208.1	2209.8	2252.5	2255.9
60°	3433.4	3431.7	3284.9	3028.9	2853.2	2865.1	2982.9	2999.9	2817.3	2699.6	2685.9
62.5°	3837.8	3819.0	3697.9	3387.3	3090.4	3085.2	3298.5	3325.9	3199.6	3042.6	3011.9
65°	3532.3	3517.0	3568.2	3462.4	3071.6	2970.9	3035.8	3028.9	3109.1	3180.8	3189.3
67.5°	3145.0	3148.4	3271.2	3238.8	2967.5	2796.9	2714.9	2704.7	2854.9	3022.1	3044.3
70°	2885.6	2885.6	2972.6	2841.2	2711.5	2600.6	2515.3	2462.4	2559.7	2587.0	2585.3
72.5°	2752.5	2740.5	2679.1	2552.8	2453.9	2356.6	2382.2	2342.9	2296.9	2225.2	2218.4
75°	2515.3	2501.6	2416.3	2356.6	2284.9	2163.8	2185.9	2146.7	2069.9	2005.1	1994.8
77.5°	2078.4	2078.4	2023.8	1979.5	1959.0	1854.9	1844.7	1825.9	1749.1	1713.3	1699.6
80°	1488.0	1484.6	1462.4	1447.1	1472.7	1411.2	1383.9	1383.9	1353.2	1320.8	1305.4
82.5°	885.6	873.7	873.7	878.8	863.5	824.2	831.0	870.3	866.9	848.1	834.4
85°	523.9	517.1	511.9	505.1	491.5	464.2	464.2	467.6	471.0	472.7	465.9
87.5°	349.8	348.1	348.1	348.1	332.8	314.0	322.5	327.6	324.2	322.5	320.8
90°	305.5	307.2	305.5	298.6	285.0	267.9	271.3	278.1	274.7	274.7	273.0
92.5°	274.7	274.7	271.3	264.5	250.8	235.5	237.2	240.6	238.9	237.2	235.5
95°	225.3	225.3	221.8	216.7	204.8	191.1	192.8	196.2	192.8	192.8	191.1
97.5°	175.8	175.8	174.1	170.6	160.4	150.2	151.9	153.6	151.9	151.9	150.2
100°	133.1	133.1	131.4	126.3	121.2	112.6	114.3	117.7	116.0	116.0	114.3
102.5°	99.0	99.0	97.3	95.6	88.7	83.6	85.3	85.3	85.3	83.6	83.6
105°	76.8	76.8	76.8	73.4	70.0	64.8	64.8	64.8	64.8	63.1	63.1
107.5°	61.4	59.7	59.7	58.0	54.6	51.2	51.2	51.2	51.2	51.2	51.2
110°	49.5	47.8	46.1	46.1	42.7	41.0	39.2	41.0	41.0	41.0	41.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	42.7	41.0	37.5	37.5	35.8	32.4	32.4	32.4	35.8	34.1	34.1
115°	37.5	35.8	30.7	30.7	29.0	27.3	27.3	27.3	30.7	27.3	27.3
117.5°	32.4	30.7	25.6	25.6	23.9	22.2	22.2	22.2	25.6	22.2	22.2
120°	23.9	23.9	20.5	20.5	20.5	18.8	18.8	18.8	20.5	18.8	18.8
122.5°	18.8	18.8	17.1	17.1	17.1	15.4	15.4	15.4	15.4	13.7	13.7
125°	18.8	22.2	13.7	13.7	11.9	11.9	11.9	10.2	11.9	10.2	10.2
127.5°	20.5	18.8	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)