

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: P588521

Luminaire Tested: **ARC-CA6-80-727-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588521
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-CA6-80-727-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: 7457 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U3 - G3

Input Watts (W): 84.4
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



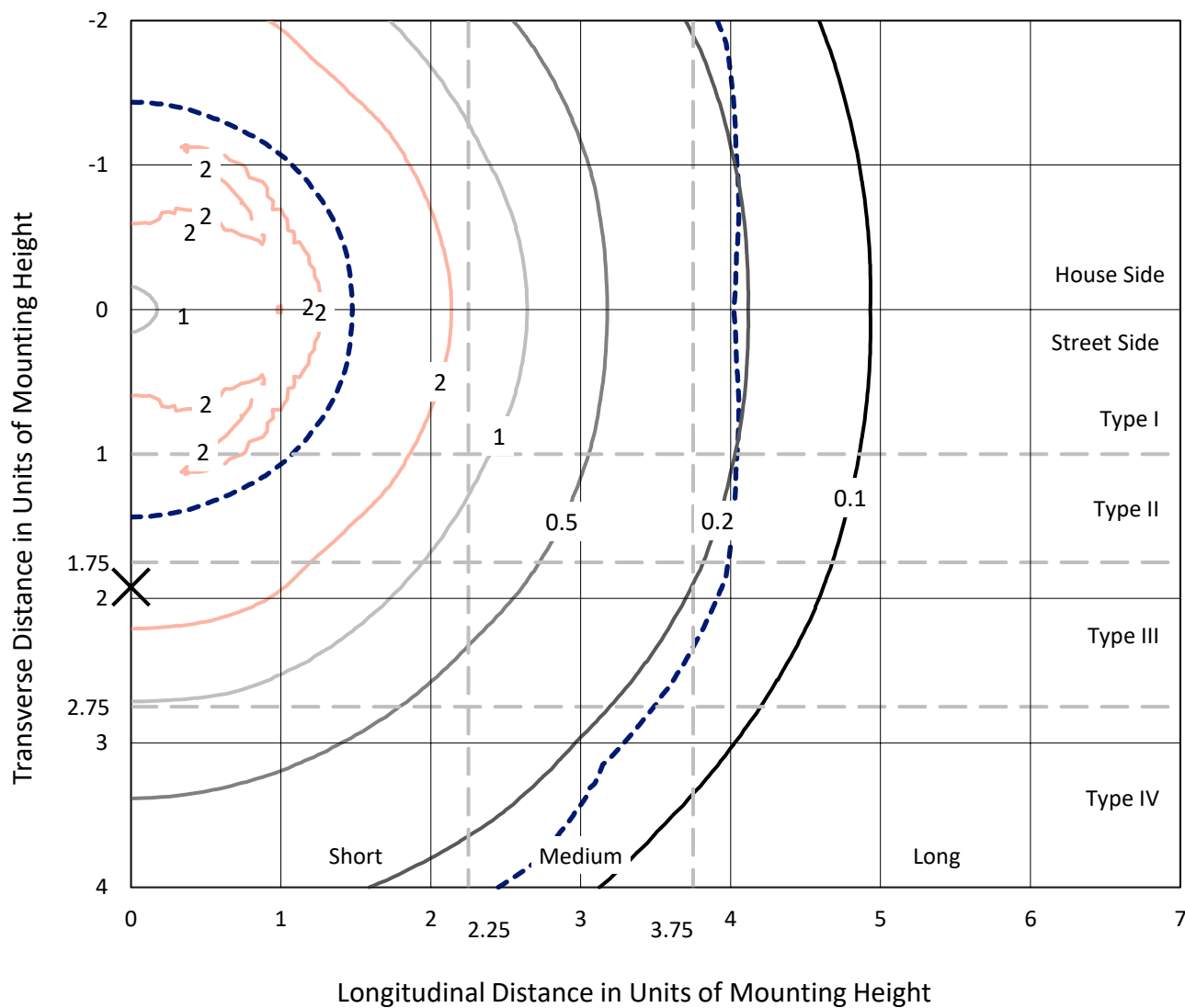
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

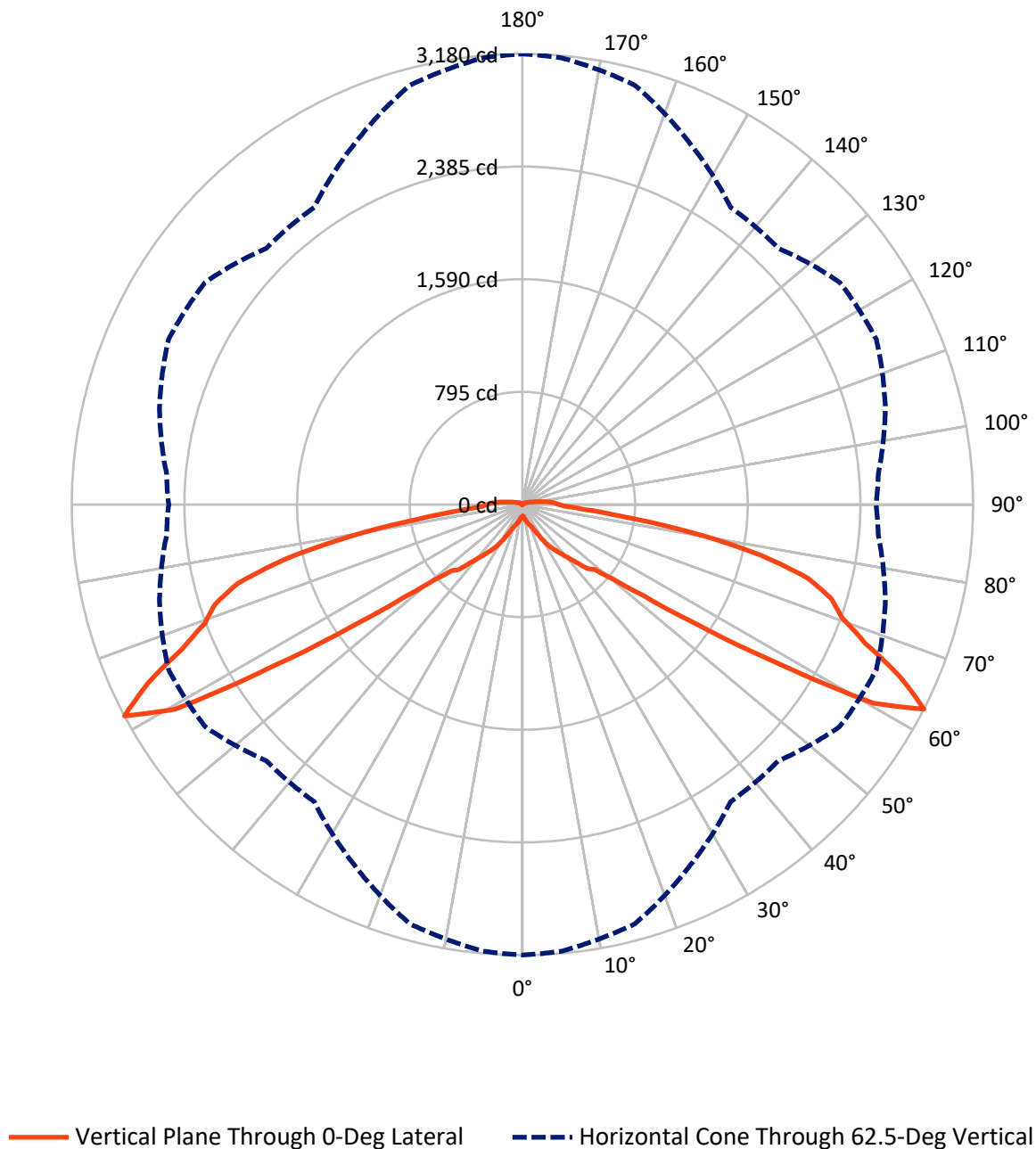


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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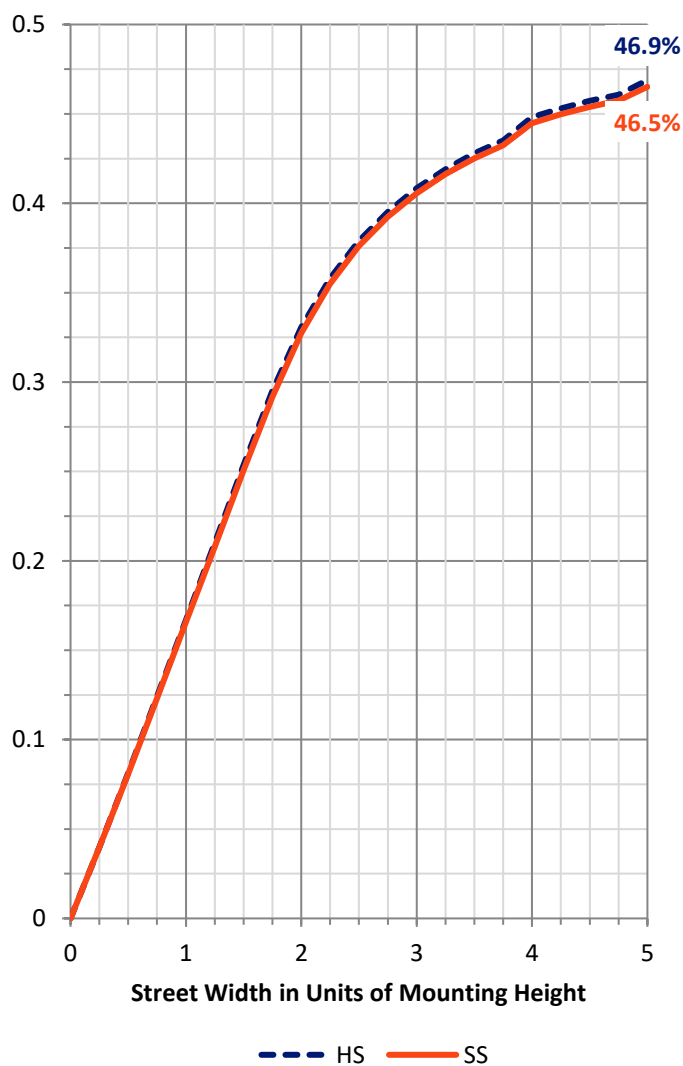
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3585.2	143.3	3728.5
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	3585.2	143.3	3728.5
	% Fixture	48.1	1.9	50.0
Total	Lumens	7170.4	286.6	7457.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.9	0.1
10°-20°	37.6	0.5
20°-30°	99.1	1.3
30°-40°	225.6	3.0
40°-50°	456.2	6.1
50°-60°	1350.5	18.1
60°-70°	2537.2	34.0
70°-80°	1886.0	25.3
80°-90°	569.3	7.6
90°-100°	184.7	2.5
100°-110°	64.7	0.9
110°-120°	25.0	0.3
120°-130°	9.9	0.1
130°-140°	2.0	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°	7170.4	96.2
0°-180°	7457.0	100.0

Coefficient of Utilization



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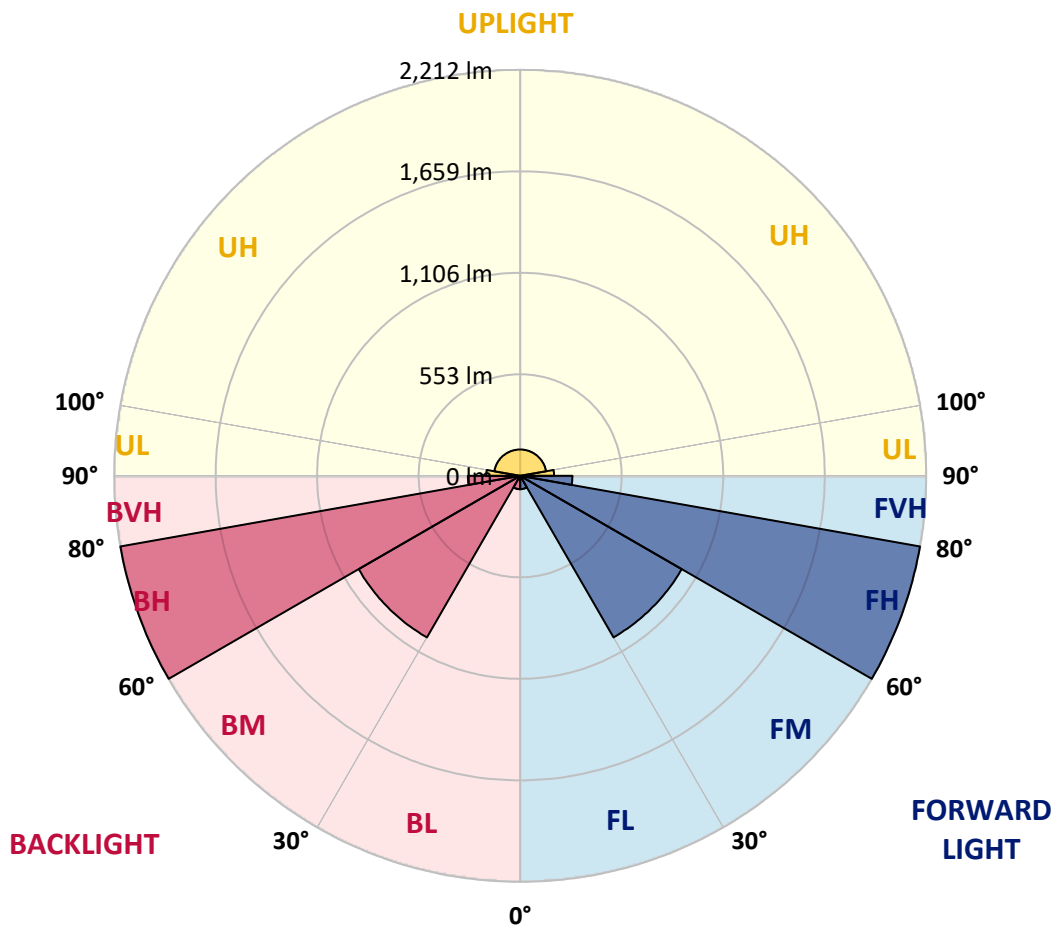
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	72.8	1.0			
FM	(30°-60°)	1016.2	13.6			
FH	(60°-80°)	2211.6	29.7			G2/5000
FVH	(80°-90°)	284.7	3.8			G3/500
BL	(0°-30°)	72.8	1.0	B0/110		
BM	(30°-60°)	1016.2	13.6	B2/2500		
BH	(60°-80°)	2211.6	29.7	B3/2500		G2/5000
BVH	(80°-90°)	284.7	3.8			G3/500
UL	(90°-100°)	184.7	2.5		U3/500	
UH	(100°-180°)	143.3	1.9		U3/500	

BUG Rating: B3-U3-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
2.5°	83.4	83.4	83.4	82.0	80.6	80.6	80.6	80.6	79.2	79.2	79.2
5°	87.7	87.7	86.2	84.8	84.8	83.4	84.8	83.4	83.4	83.4	84.8
7.5°	97.6	97.6	96.1	96.1	96.1	94.7	94.7	94.7	94.7	93.3	94.7
10°	108.9	108.9	108.9	108.9	108.9	107.5	107.5	106.0	106.0	106.0	106.0
12.5°	121.6	120.2	120.2	121.6	120.2	118.8	118.8	118.8	117.4	117.4	117.4
15°	132.9	132.9	131.5	131.5	131.5	130.1	130.1	128.7	128.7	127.2	127.2
17.5°	144.2	144.2	142.8	141.4	141.4	141.4	140.0	140.0	138.6	138.6	138.6
20°	158.4	156.9	155.5	154.1	152.7	152.7	152.7	152.7	151.3	149.9	149.9
22.5°	173.9	172.5	171.1	169.7	169.7	168.3	168.3	166.8	166.8	165.4	164.0
25°	206.4	206.4	200.8	199.4	199.4	200.8	199.4	197.9	195.1	190.9	190.9
27.5°	250.3	251.7	253.1	260.2	258.7	248.8	243.2	240.4	238.9	238.9	240.4
30°	299.7	301.2	305.4	312.5	308.2	295.5	281.4	275.7	279.9	285.6	287.0
32.5°	352.1	352.1	343.6	333.7	323.8	315.3	311.1	308.2	306.8	302.6	302.6
35°	393.1	386.0	359.1	326.6	316.7	322.4	339.3	345.0	323.8	304.0	301.2
37.5°	439.7	438.3	417.1	393.1	374.7	371.9	390.2	395.9	373.3	360.5	359.1
40°	489.2	492.0	496.3	486.4	458.1	449.6	439.7	432.6	432.6	434.1	431.2
42.5°	555.7	559.9	559.9	561.3	538.7	518.9	499.1	487.8	486.4	497.7	501.9
45°	644.7	644.7	634.8	615.0	605.1	591.0	578.3	567.0	561.3	562.7	567.0
47.5°	684.3	687.1	678.7	650.4	643.3	629.2	610.8	606.6	609.4	613.6	615.0
50°	822.9	815.8	757.8	698.5	677.2	691.4	718.3	725.3	698.5	671.6	664.5
52.5°	1066.1	1064.7	1019.4	975.6	945.9	937.4	974.2	977.0	930.3	910.5	907.7
55°	1487.4	1471.8	1505.8	1527.0	1464.8	1395.5	1370.0	1334.7	1337.5	1377.1	1378.5
57.5°	2085.5	2094.0	2132.1	2077.0	1982.3	1931.4	1896.0	1829.6	1831.0	1866.3	1869.1
60°	2844.7	2843.3	2721.7	2509.6	2364.0	2373.9	2471.5	2485.6	2334.3	2236.8	2225.4
62.5°	3179.8	3164.3	3063.9	2806.6	2560.5	2556.3	2733.0	2755.7	2651.0	2520.9	2495.5
65°	2926.7	2914.0	2956.4	2868.8	2545.0	2461.6	2515.3	2509.6	2576.1	2635.5	2642.5
67.5°	2605.8	2608.6	2710.4	2683.5	2458.7	2317.3	2249.5	2241.0	2365.4	2504.0	2522.4
70°	2390.9	2390.9	2463.0	2354.1	2246.7	2154.8	2084.1	2040.2	2120.8	2143.4	2142.0
72.5°	2280.6	2270.7	2219.8	2115.2	2033.2	1952.6	1973.8	1941.3	1903.1	1843.7	1838.0
75°	2084.1	2072.7	2002.1	1952.6	1893.2	1792.8	1811.2	1778.7	1715.0	1661.3	1652.8
77.5°	1722.1	1722.1	1676.9	1640.1	1623.1	1536.9	1528.4	1512.9	1449.2	1419.5	1408.2
80°	1232.9	1230.1	1211.7	1199.0	1220.2	1169.3	1146.7	1146.7	1121.2	1094.3	1081.6
82.5°	733.8	723.9	723.9	728.1	715.4	682.9	688.6	721.1	718.3	702.7	691.4
85°	434.1	428.4	424.2	418.5	407.2	384.6	384.6	387.4	390.2	391.6	386.0
87.5°	289.8	288.4	288.4	288.4	275.7	260.2	267.2	271.5	268.6	267.2	265.8
90°	253.1	254.5	253.1	247.4	236.1	222.0	224.8	230.5	227.6	227.6	226.2
92.5°	227.6	227.6	224.8	219.2	207.8	195.1	196.5	199.4	197.9	196.5	195.1
95°	186.6	186.6	183.8	179.6	169.7	158.4	159.8	162.6	159.8	159.8	158.4
97.5°	145.6	145.6	144.2	141.4	132.9	124.4	125.8	127.2	125.8	125.8	124.4
100°	110.3	110.3	108.9	104.6	100.4	93.3	94.7	97.6	96.1	96.1	94.7
102.5°	82.0	82.0	80.6	79.2	73.5	69.3	70.7	70.7	70.7	69.3	69.3
105°	63.6	63.6	63.6	60.8	58.0	53.7	53.7	53.7	53.7	52.3	52.3
107.5°	50.9	49.5	49.5	48.1	45.2	42.4	42.4	42.4	42.4	42.4	42.4
110°	41.0	39.6	38.2	38.2	35.3	33.9	32.5	33.9	33.9	33.9	33.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	35.3	33.9	31.1	31.1	29.7	26.9	26.9	26.9	29.7	28.3	28.3
115°	31.1	29.7	25.4	25.4	24.0	22.6	22.6	22.6	25.4	22.6	22.6
117.5°	26.9	25.4	21.2	21.2	19.8	18.4	18.4	18.4	21.2	18.4	18.4
120°	19.8	19.8	17.0	17.0	17.0	15.6	15.6	15.6	17.0	15.6	15.6
122.5°	15.6	15.6	14.1	14.1	14.1	12.7	12.7	12.7	12.7	11.3	11.3
125°	15.6	18.4	11.3	11.3	9.9	9.9	9.9	8.5	9.9	8.5	8.5
127.5°	17.0	15.6	8.5	8.5	8.5	7.1	7.1	7.1	7.1	7.1	7.1
130°	5.7	8.5	5.7	5.7	5.7	5.7	5.7	5.7	4.2	4.2	4.2
132.5°	4.2	4.2	4.2	4.2	4.2	4.2	2.8	2.8	2.8	2.8	2.8
135°	2.8	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4
137.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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	1.4	1.4	1.4	1.4	1.4
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4
170°	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4
172.5°	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
175°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4
177.5°	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
180°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4

(END OF REPORT)