

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: P588529

Luminaire Tested: **ARC-CA6-80-740-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588529
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-CA6-80-740-U-55-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR
Light Source: (6) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7976 lumens
Efficiency: N/A
Efficacy: 94.5 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



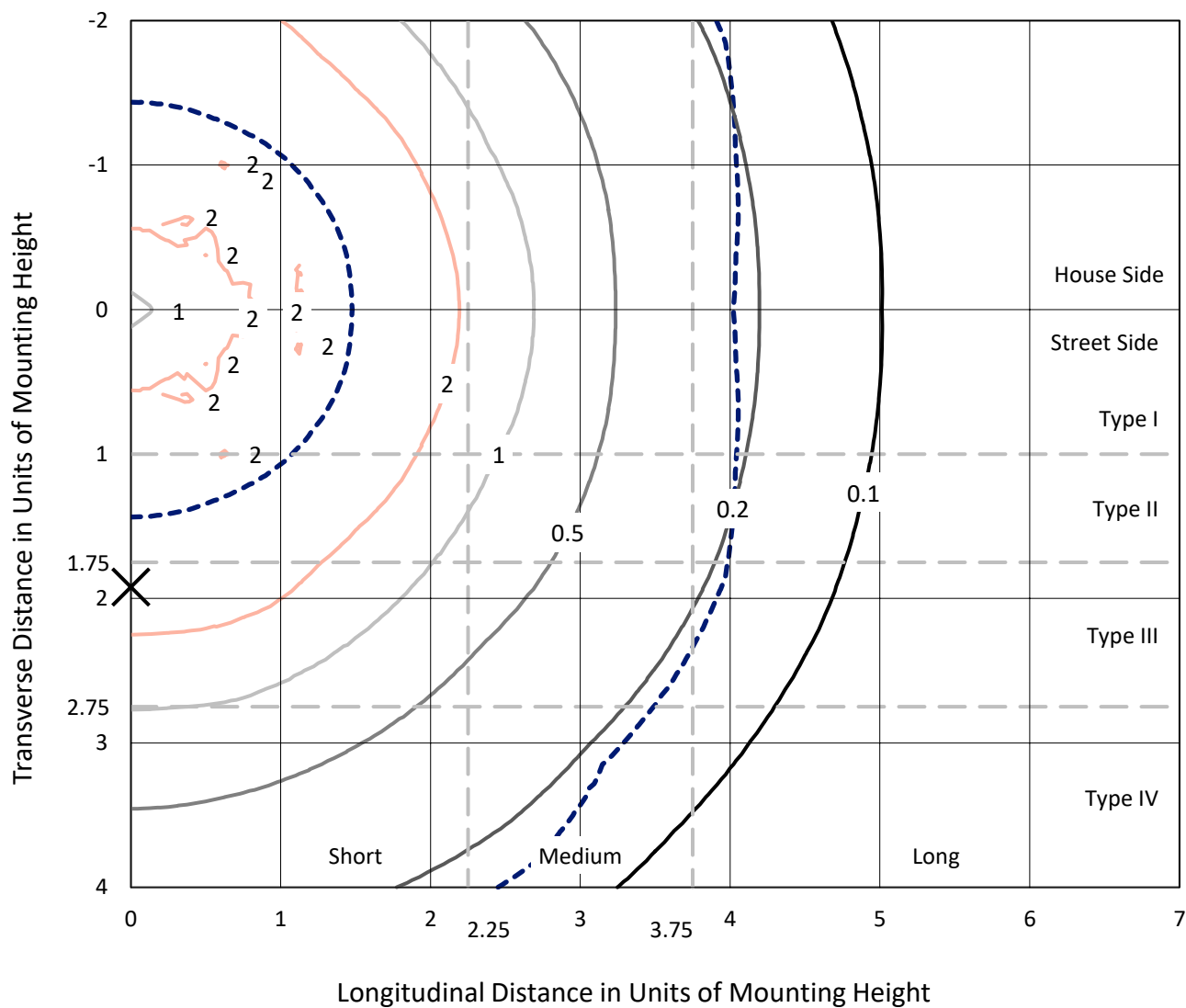
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

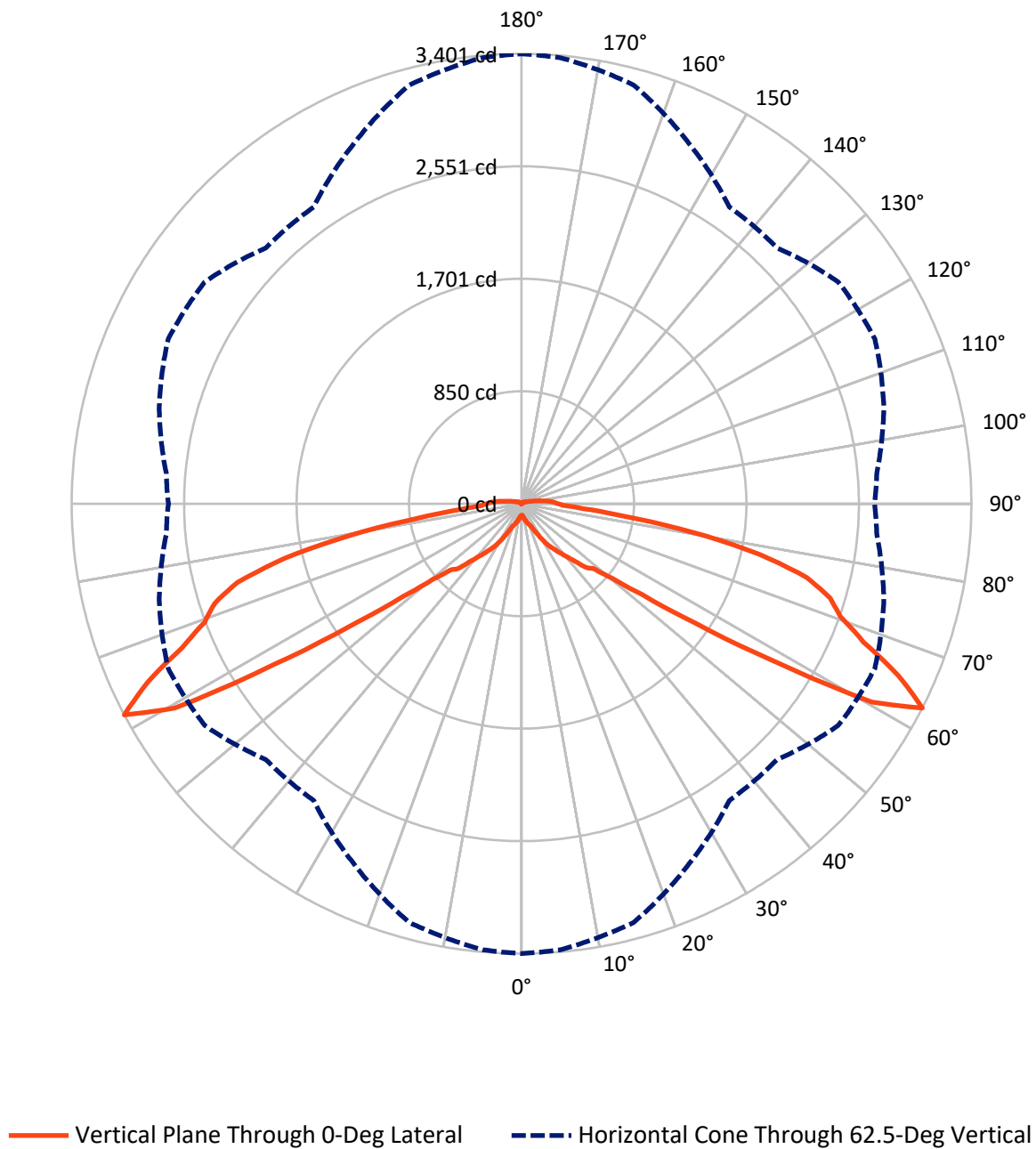


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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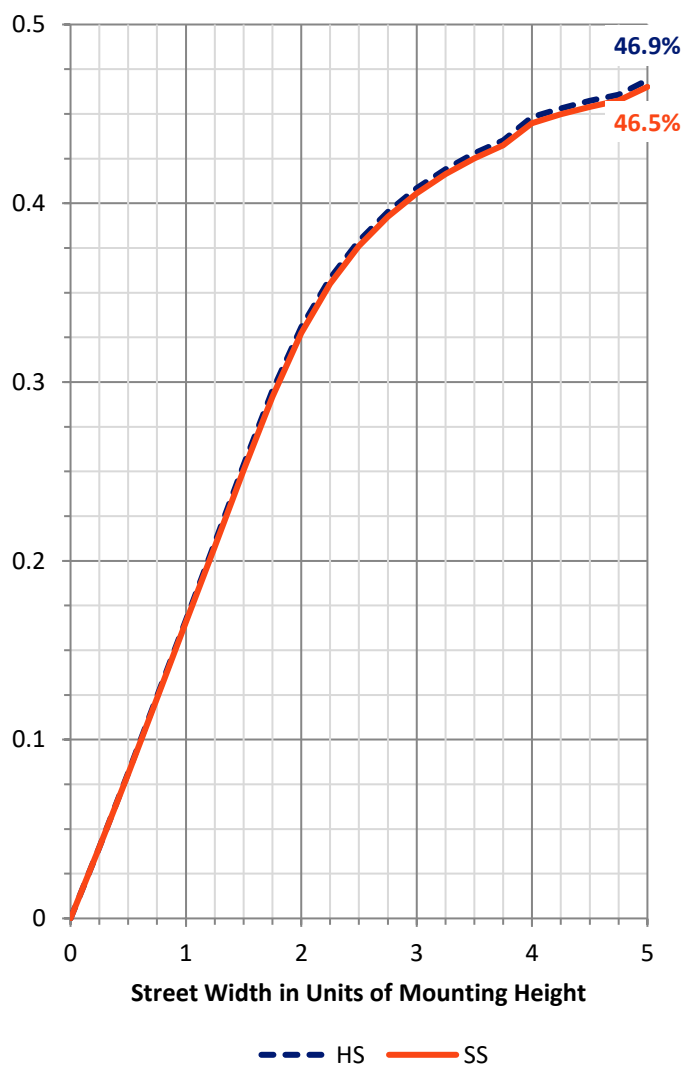
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3834.7	153.3	3988.0
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	3834.7	153.3	3988.0
	% Fixture	48.1	1.9	50.0
Total	Lumens	7669.5	306.5	7976.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.5	0.1
10°-20°	40.2	0.5
20°-30°	106.0	1.3
30°-40°	241.2	3.0
40°-50°	488.0	6.1
50°-60°	1444.5	18.1
60°-70°	2713.8	34.0
70°-80°	2017.2	25.3
80°-90°	608.9	7.6
90°-100°	197.6	2.5
100°-110°	69.2	0.9
110°-120°	26.8	0.3
120°-130°	10.6	0.1
130°-140°	2.1	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°	7669.5	96.2
0°-180°	7976.0	100.0

Coefficient of Utilization



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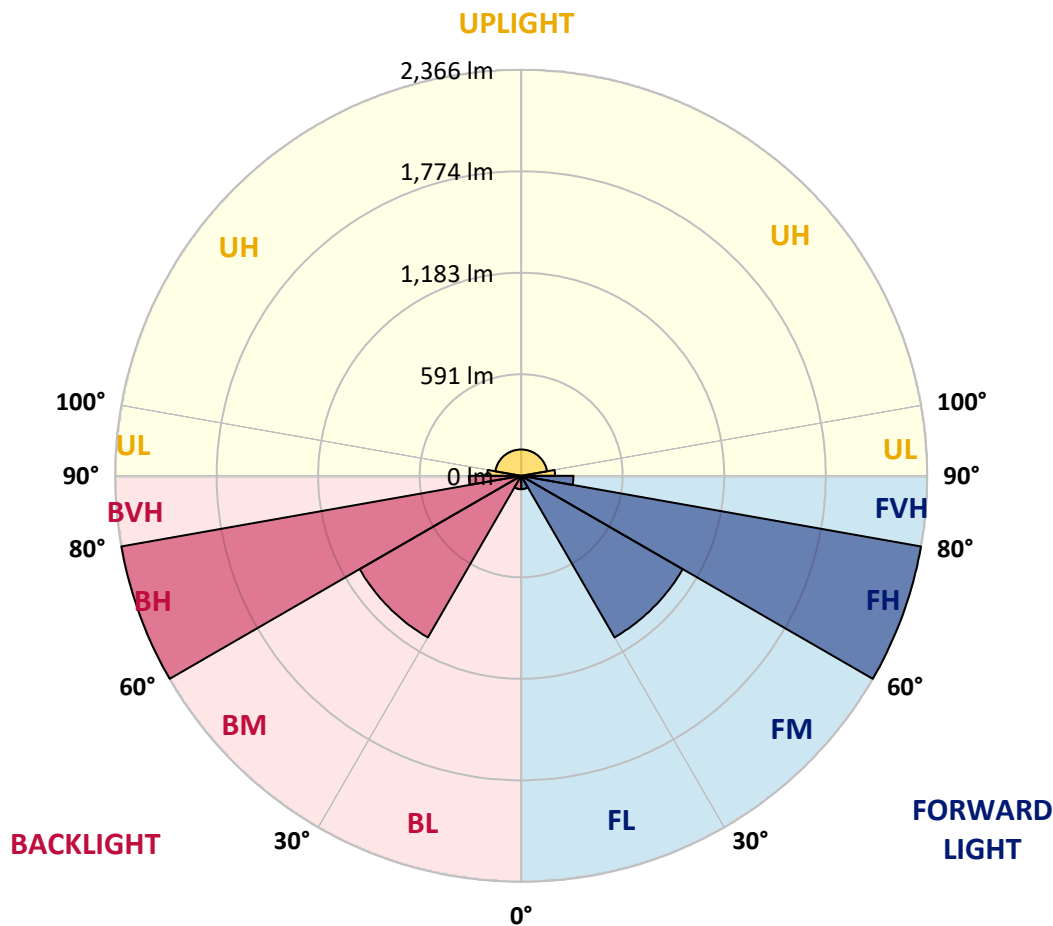
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	77.9	1.0			
FM	(30°-60°)	1086.9	13.6			
FH	(60°-80°)	2365.5	29.7			G2/5000
FVH	(80°-90°)	304.5	3.8			G3/500
BL	(0°-30°)	77.9	1.0	B0/110		
BM	(30°-60°)	1086.9	13.6	B2/2500		
BH	(60°-80°)	2365.5	29.7	B3/2500		G2/5000
BVH	(80°-90°)	304.5	3.8			G3/500
UL	(90°-100°)	197.6	2.5		U3/500	
UH	(100°-180°)	153.3	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°	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
2.5°	89.2	89.2	89.2	87.7	86.2	86.2	86.2	86.2	84.7	84.7	84.7
5°	93.8	93.8	92.2	90.7	90.7	89.2	90.7	89.2	89.2	89.2	90.7
7.5°	104.3	104.3	102.8	102.8	102.8	101.3	101.3	101.3	101.3	99.8	101.3
10°	116.4	116.4	116.4	116.4	116.4	114.9	114.9	113.4	113.4	113.4	113.4
12.5°	130.1	128.5	128.5	130.1	128.5	127.0	127.0	127.0	125.5	125.5	125.5
15°	142.2	142.2	140.6	140.6	140.6	139.1	139.1	137.6	137.6	136.1	136.1
17.5°	154.3	154.3	152.7	151.2	151.2	151.2	149.7	149.7	148.2	148.2	148.2
20°	169.4	167.9	166.4	164.8	163.3	163.3	163.3	163.3	161.8	160.3	160.3
22.5°	186.0	184.5	183.0	181.5	181.5	180.0	180.0	178.4	178.4	176.9	175.4
25°	220.8	220.8	214.7	213.2	213.2	214.7	213.2	211.7	208.7	204.2	204.2
27.5°	267.7	269.2	270.7	278.3	276.7	266.2	260.1	257.1	255.6	255.6	257.1
30°	320.6	322.1	326.7	334.2	329.7	316.1	300.9	294.9	299.4	305.5	307.0
32.5°	376.6	376.6	367.5	356.9	346.3	337.2	332.7	329.7	328.2	323.6	323.6
35°	420.4	412.9	384.1	349.3	338.8	344.8	362.9	369.0	346.3	325.1	322.1
37.5°	470.3	468.8	446.1	420.4	400.8	397.7	417.4	423.4	399.2	385.6	384.1
40°	523.3	526.3	530.8	520.2	490.0	480.9	470.3	462.8	462.8	464.3	461.2
42.5°	594.3	598.9	598.9	600.4	576.2	555.0	533.8	521.7	520.2	532.3	536.9
45°	689.6	689.6	679.0	657.8	647.3	632.1	618.5	606.4	600.4	601.9	606.4
47.5°	731.9	735.0	725.9	695.7	688.1	673.0	653.3	648.8	651.8	656.3	657.8
50°	880.1	872.6	810.6	747.1	724.4	739.5	768.2	775.8	747.1	718.3	710.8
52.5°	1140.3	1138.8	1090.4	1043.5	1011.7	1002.6	1042.0	1045.0	995.1	973.9	970.9
55°	1590.9	1574.3	1610.6	1633.3	1566.7	1492.6	1465.4	1427.6	1430.6	1473.0	1474.5
57.5°	2230.6	2239.7	2280.5	2221.5	2120.2	2065.8	2028.0	1956.9	1958.4	1996.2	1999.2
60°	3042.7	3041.2	2911.1	2684.3	2528.5	2539.1	2643.5	2658.6	2496.8	2392.4	2380.3
62.5°	3401.1	3384.5	3277.1	3001.9	2738.7	2734.2	2923.2	2947.4	2835.5	2696.4	2669.2
65°	3130.4	3116.8	3162.2	3068.4	2722.1	2632.9	2690.4	2684.3	2755.4	2818.9	2826.5
67.5°	2787.1	2790.2	2899.1	2870.3	2629.9	2478.6	2406.0	2397.0	2530.1	2678.3	2697.9
70°	2557.3	2557.3	2634.4	2518.0	2403.0	2304.7	2229.1	2182.2	2268.4	2292.6	2291.1
72.5°	2439.3	2428.7	2374.3	2262.4	2174.7	2088.5	2111.1	2076.4	2035.5	1972.0	1966.0
75°	2229.1	2217.0	2141.4	2088.5	2024.9	1917.6	1937.2	1902.5	1834.4	1776.9	1767.9
77.5°	1842.0	1842.0	1793.6	1754.3	1736.1	1643.9	1634.8	1618.1	1550.1	1518.3	1506.2
80°	1318.7	1315.7	1296.0	1282.4	1305.1	1250.7	1226.5	1226.5	1199.2	1170.5	1156.9
82.5°	784.9	774.3	774.3	778.8	765.2	730.4	736.5	771.3	768.2	751.6	739.5
85°	464.3	458.2	453.7	447.6	435.5	411.3	411.3	414.4	417.4	418.9	412.9
87.5°	310.0	308.5	308.5	308.5	294.9	278.3	285.8	290.4	287.3	285.8	284.3
90°	270.7	272.2	270.7	264.6	252.6	237.4	240.5	246.5	243.5	243.5	242.0
92.5°	243.5	243.5	240.5	234.4	222.3	208.7	210.2	213.2	211.7	210.2	208.7
95°	199.6	199.6	196.6	192.1	181.5	169.4	170.9	173.9	170.9	170.9	169.4
97.5°	155.8	155.8	154.3	151.2	142.2	133.1	134.6	136.1	134.6	134.6	133.1
100°	118.0	118.0	116.4	111.9	107.4	99.8	101.3	104.3	102.8	102.8	101.3
102.5°	87.7	87.7	86.2	84.7	78.6	74.1	75.6	75.6	75.6	74.1	74.1
105°	68.1	68.1	68.1	65.0	62.0	57.5	57.5	57.5	57.5	56.0	56.0
107.5°	54.4	52.9	52.9	51.4	48.4	45.4	45.4	45.4	45.4	45.4	45.4
110°	43.9	42.3	40.8	40.8	37.8	36.3	34.8	36.3	36.3	36.3	36.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	37.8	36.3	33.3	33.3	31.8	28.7	28.7	28.7	31.8	30.2	30.2
115°	33.3	31.8	27.2	27.2	25.7	24.2	24.2	24.2	27.2	24.2	24.2
117.5°	28.7	27.2	22.7	22.7	21.2	19.7	19.7	19.7	22.7	19.7	19.7
120°	21.2	21.2	18.1	18.1	18.1	16.6	16.6	16.6	18.1	16.6	16.6
122.5°	16.6	16.6	15.1	15.1	15.1	13.6	13.6	13.6	13.6	12.1	12.1
125°	16.6	19.7	12.1	12.1	10.6	10.6	10.6	9.1	10.6	9.1	9.1
127.5°	18.1	16.6	9.1	9.1	9.1	7.6	7.6	7.6	7.6	7.6	7.6
130°	6.0	9.1	6.0	6.0	6.0	6.0	6.0	6.0	4.5	4.5	4.5
132.5°	4.5	4.5	4.5	4.5	4.5	4.5	3.0	3.0	3.0	3.0	3.0
135°	3.0	3.0	3.0	3.0	3.0	3.0	1.5	1.5	1.5	1.5	1.5
137.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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	1.5	1.5	1.5	1.5	1.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5
170°	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5
172.5°	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
175°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
177.5°	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

(END OF REPORT)