

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: P588509

Luminaire Tested: **ARC-CA6-70-750-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588509
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-CA6-70-750-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: 7205 lumens
Efficiency: N/A
Efficacy: 97.5 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): 73.9
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

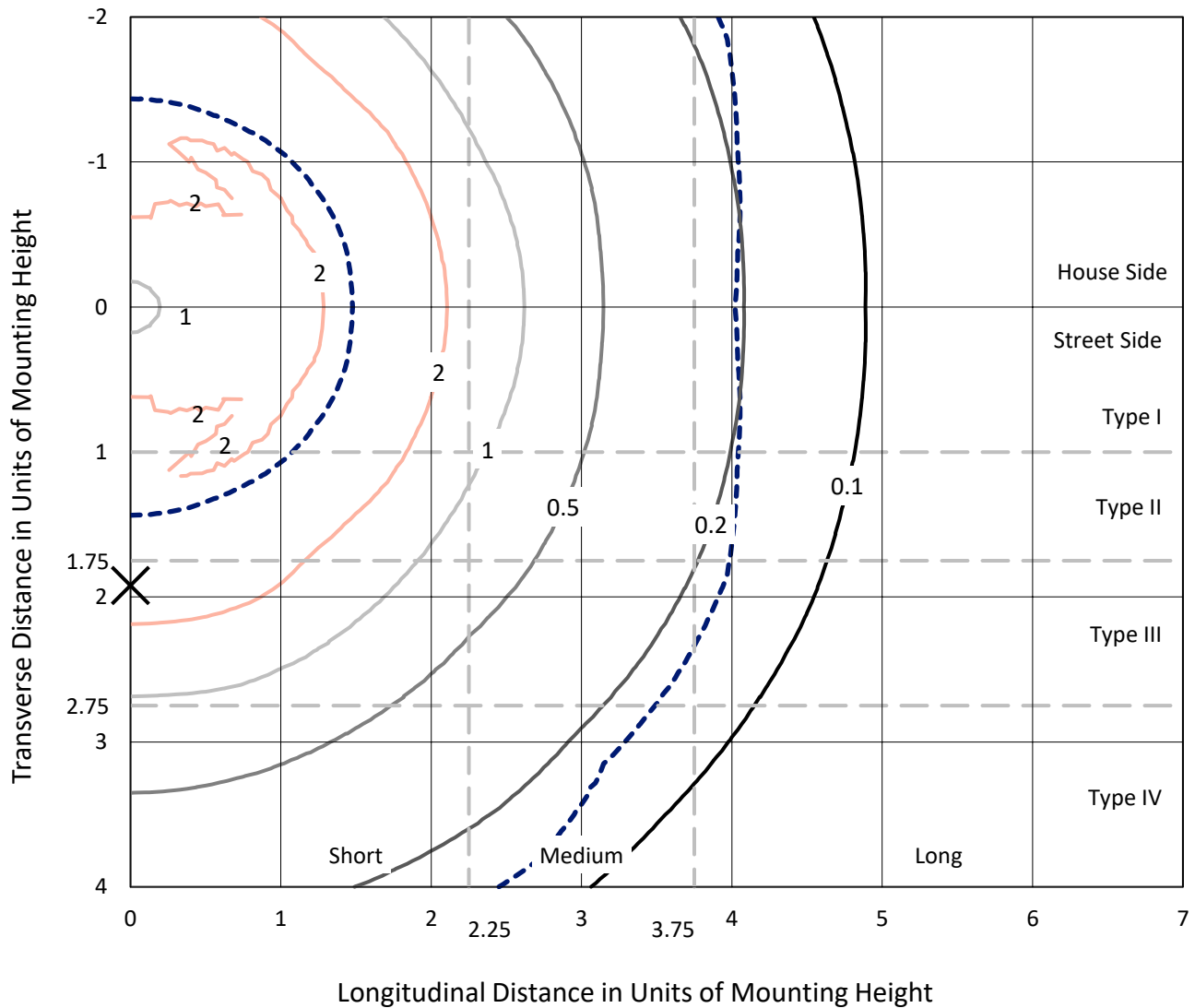


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

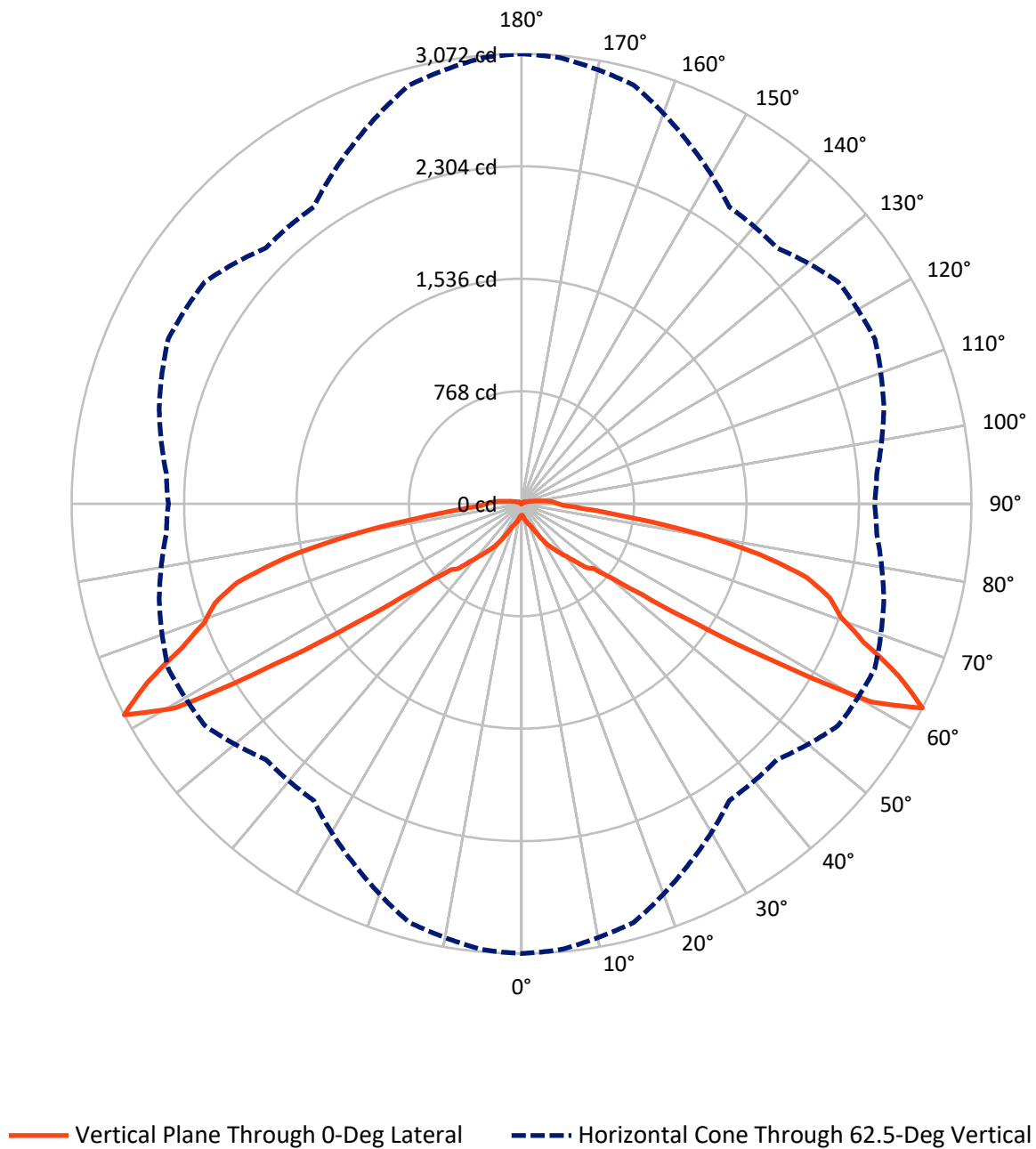


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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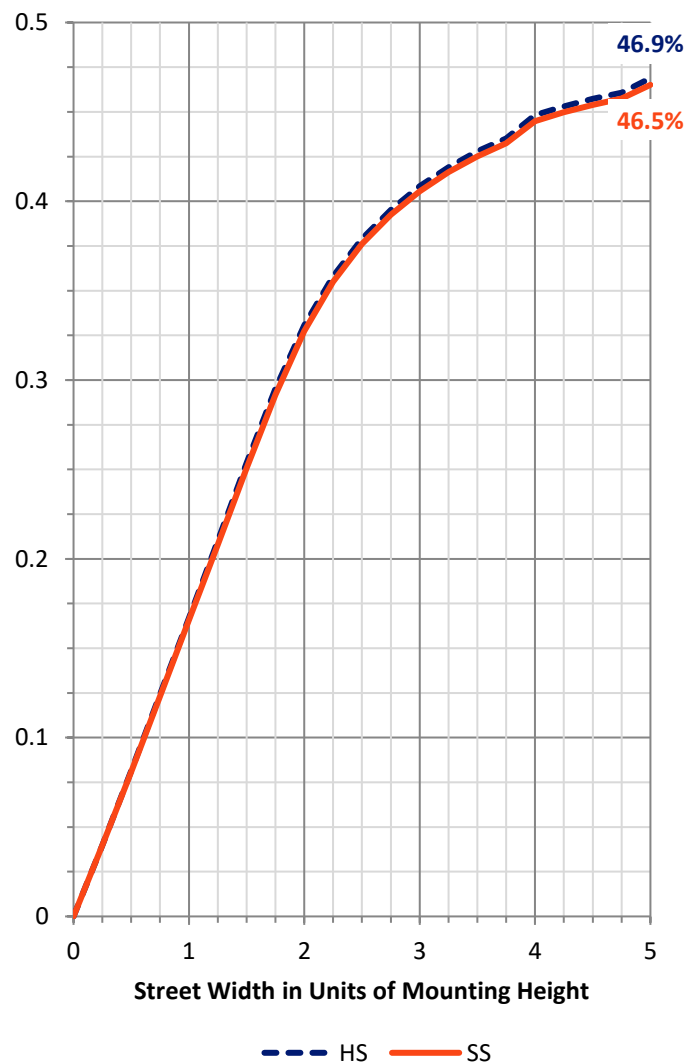
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3464.0	138.5	3602.5
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	3464.0	138.5	3602.5
	% Fixture	48.1	1.9	50.0
Total	Lumens	6928.1	276.9	7205.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	0.1
10°-20°	36.3	0.5
20°-30°	95.8	1.3
30°-40°	217.9	3.0
40°-50°	440.8	6.1
50°-60°	1304.9	18.1
60°-70°	2451.5	34.0
70°-80°	1822.2	25.3
80°-90°	550.1	7.6
90°-100°	178.5	2.5
100°-110°	62.5	0.9
110°-120°	24.2	0.3
120°-130°	9.6	0.1
130°-140°	1.9	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°	6928.1	96.2
0°-180°	7205.0	100.0

Coefficient of Utilization



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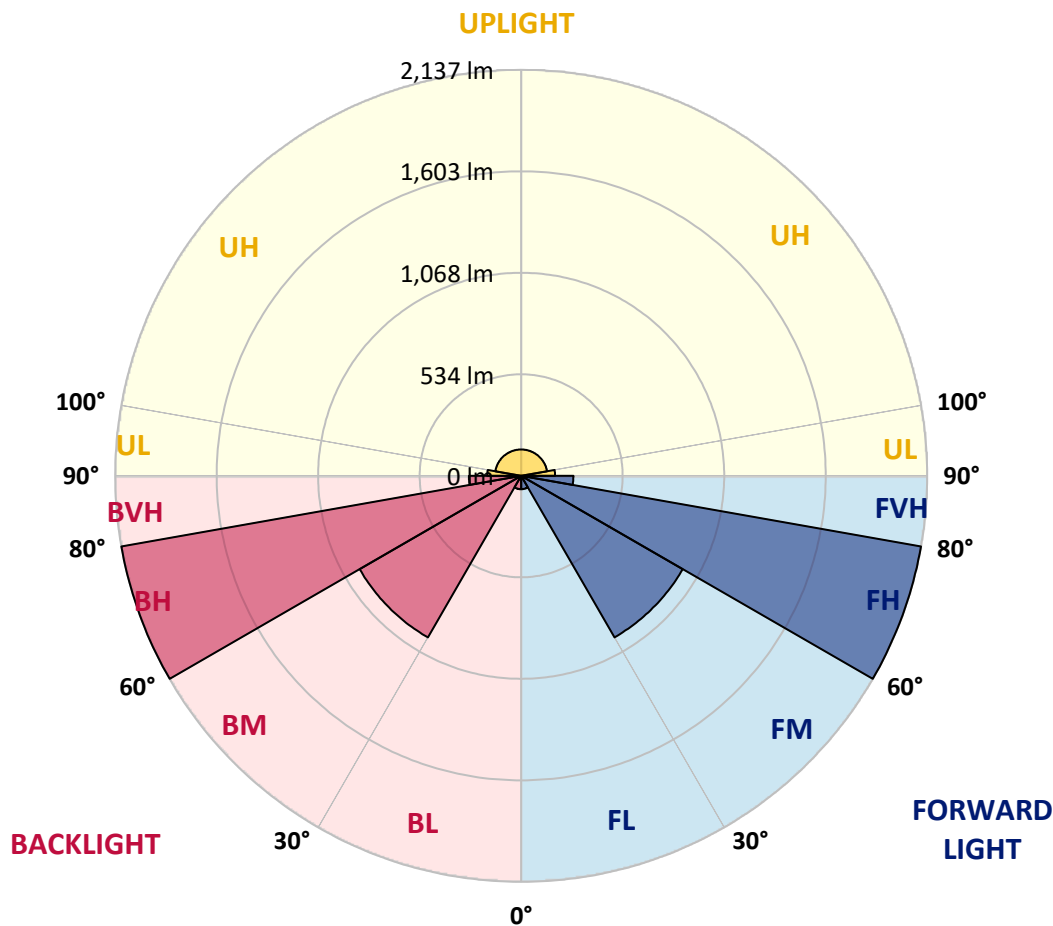
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	70.3	1.0			
FM	(30°-60°)	981.8	13.6			
FH	(60°-80°)	2136.9	29.7			G2/5000
FVH	(80°-90°)	275.0	3.8			G3/500
BL	(0°-30°)	70.3	1.0	B0/110		
BM	(30°-60°)	981.8	13.6	B1/1000		
BH	(60°-80°)	2136.9	29.7	B3/2500		G2/5000
BVH	(80°-90°)	275.0	3.8			G3/500
UL	(90°-100°)	178.5	2.5		U3/500	
UH	(100°-180°)	138.5	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°	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
2.5°	80.6	80.6	80.6	79.2	77.9	77.9	77.9	77.9	76.5	76.5	76.5
5°	84.7	84.7	83.3	82.0	82.0	80.6	82.0	80.6	80.6	80.6	82.0
7.5°	94.3	94.3	92.9	92.9	92.9	91.5	91.5	91.5	91.5	90.2	91.5
10°	105.2	105.2	105.2	105.2	105.2	103.8	103.8	102.5	102.5	102.5	102.5
12.5°	117.5	116.1	116.1	117.5	116.1	114.8	114.8	114.8	113.4	113.4	113.4
15°	128.4	128.4	127.0	127.0	127.0	125.7	125.7	124.3	124.3	122.9	122.9
17.5°	139.3	139.3	138.0	136.6	136.6	136.6	135.2	135.2	133.9	133.9	133.9
20°	153.0	151.6	150.3	148.9	147.5	147.5	147.5	147.5	146.2	144.8	144.8
22.5°	168.0	166.7	165.3	163.9	163.9	162.6	162.6	161.2	161.2	159.8	158.5
25°	199.5	199.5	194.0	192.6	192.6	194.0	192.6	191.3	188.5	184.4	184.4
27.5°	241.8	243.2	244.5	251.4	250.0	240.4	235.0	232.2	230.9	230.9	232.2
30°	289.6	291.0	295.1	301.9	297.8	285.5	271.9	266.4	270.5	276.0	277.3
32.5°	340.2	340.2	332.0	322.4	312.8	304.6	300.5	297.8	296.4	292.3	292.3
35°	379.8	372.9	347.0	315.6	306.0	311.5	327.9	333.3	312.8	293.7	291.0
37.5°	424.9	423.5	403.0	379.8	362.0	359.3	377.0	382.5	360.7	348.4	347.0
40°	472.7	475.4	479.5	469.9	442.6	434.4	424.9	418.0	418.0	419.4	416.7
42.5°	536.9	541.0	541.0	542.3	520.5	501.4	482.2	471.3	469.9	480.9	485.0
45°	622.9	622.9	613.4	594.3	584.7	571.0	558.7	547.8	542.3	543.7	547.8
47.5°	661.2	663.9	655.7	628.4	621.6	607.9	590.2	586.1	588.8	592.9	594.3
50°	795.1	788.2	732.2	674.9	654.4	668.0	694.0	700.8	674.9	648.9	642.1
52.5°	1030.0	1028.7	985.0	942.6	913.9	905.7	941.2	944.0	898.9	879.8	877.0
55°	1437.1	1422.1	1454.9	1475.4	1415.3	1348.3	1323.8	1289.6	1292.3	1330.6	1331.9
57.5°	2015.0	2023.2	2060.1	2006.8	1915.3	1866.1	1831.9	1767.7	1769.1	1803.3	1806.0
60°	2748.6	2747.2	2629.7	2424.8	2284.1	2293.7	2387.9	2401.6	2255.4	2161.2	2150.2
62.5°	3072.4	3057.3	2960.3	2711.7	2474.0	2469.9	2640.7	2662.5	2561.4	2435.8	2411.2
65°	2827.8	2815.5	2856.5	2771.8	2459.0	2378.4	2430.3	2424.8	2489.0	2546.4	2553.2
67.5°	2517.7	2520.5	2618.8	2592.9	2375.6	2239.0	2173.5	2165.3	2285.5	2419.4	2437.1
70°	2310.1	2310.1	2379.7	2274.6	2170.7	2081.9	2013.6	1971.3	2049.1	2071.0	2069.6
72.5°	2203.5	2194.0	2144.8	2043.7	1964.5	1886.6	1907.1	1875.7	1838.8	1781.4	1775.9
75°	2013.6	2002.7	1934.4	1886.6	1829.2	1732.2	1750.0	1718.6	1657.1	1605.2	1597.0
77.5°	1663.9	1663.9	1620.2	1584.7	1568.3	1485.0	1476.8	1461.7	1400.3	1371.6	1360.6
80°	1191.2	1188.5	1170.7	1158.5	1178.9	1129.8	1107.9	1107.9	1083.3	1057.4	1045.1
82.5°	709.0	699.4	699.4	703.5	691.2	659.8	665.3	696.7	694.0	679.0	668.0
85°	419.4	413.9	409.8	404.4	393.4	371.6	371.6	374.3	377.0	378.4	372.9
87.5°	280.1	278.7	278.7	278.7	266.4	251.4	258.2	262.3	259.6	258.2	256.8
90°	244.5	245.9	244.5	239.1	228.1	214.5	217.2	222.7	219.9	219.9	218.6
92.5°	219.9	219.9	217.2	211.7	200.8	188.5	189.9	192.6	191.3	189.9	188.5
95°	180.3	180.3	177.6	173.5	163.9	153.0	154.4	157.1	154.4	154.4	153.0
97.5°	140.7	140.7	139.3	136.6	128.4	120.2	121.6	122.9	121.6	121.6	120.2
100°	106.6	106.6	105.2	101.1	97.0	90.2	91.5	94.3	92.9	92.9	91.5
102.5°	79.2	79.2	77.9	76.5	71.0	66.9	68.3	68.3	68.3	66.9	66.9
105°	61.5	61.5	61.5	58.7	56.0	51.9	51.9	51.9	51.9	50.5	50.5
107.5°	49.2	47.8	47.8	46.4	43.7	41.0	41.0	41.0	41.0	41.0	41.0
110°	39.6	38.3	36.9	36.9	34.2	32.8	31.4	32.8	32.8	32.8	32.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	34.2	32.8	30.1	30.1	28.7	26.0	26.0	26.0	28.7	27.3	27.3
115°	30.1	28.7	24.6	24.6	23.2	21.9	21.9	21.9	24.6	21.9	21.9
117.5°	26.0	24.6	20.5	20.5	19.1	17.8	17.8	17.8	20.5	17.8	17.8
120°	19.1	19.1	16.4	16.4	16.4	15.0	15.0	15.0	16.4	15.0	15.0
122.5°	15.0	15.0	13.7	13.7	13.7	12.3	12.3	12.3	12.3	10.9	10.9
125°	15.0	17.8	10.9	10.9	9.6	9.6	9.6	8.2	9.6	8.2	8.2
127.5°	16.4	15.0	8.2	8.2	8.2	6.8	6.8	6.8	6.8	6.8	6.8
130°	5.5	8.2	5.5	5.5	5.5	5.5	5.5	5.5	4.1	4.1	4.1
132.5°	4.1	4.1	4.1	4.1	4.1	4.1	2.7	2.7	2.7	2.7	2.7
135°	2.7	2.7	2.7	2.7	2.7	2.7	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)