

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: P588537

Luminaire Tested: **ARC-CA6-80-760-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588537
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-CA6-80-760-U-55-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR
Light Source: (6) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7950 lumens
Efficiency: N/A
Efficacy: 94.2 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

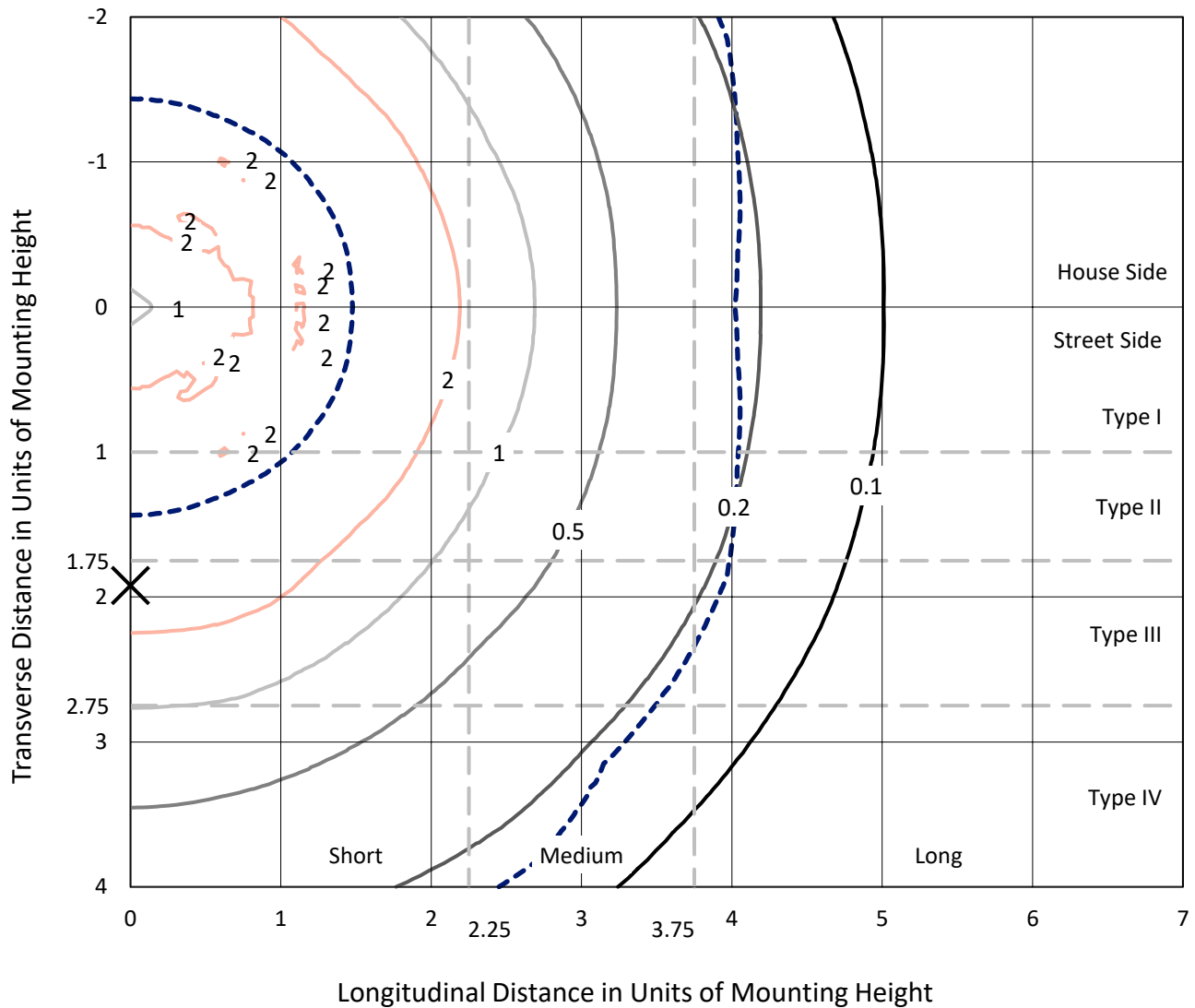


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

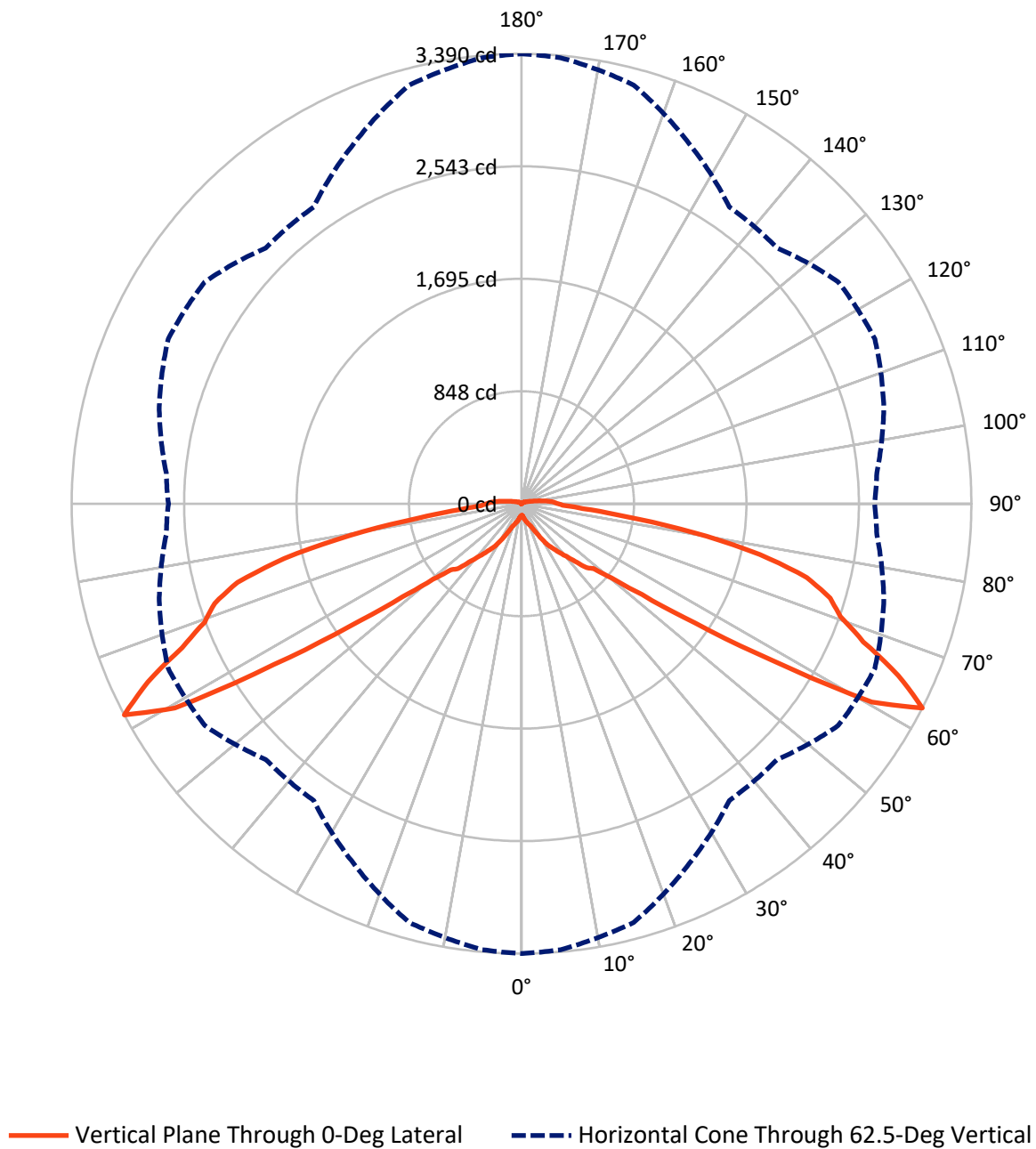


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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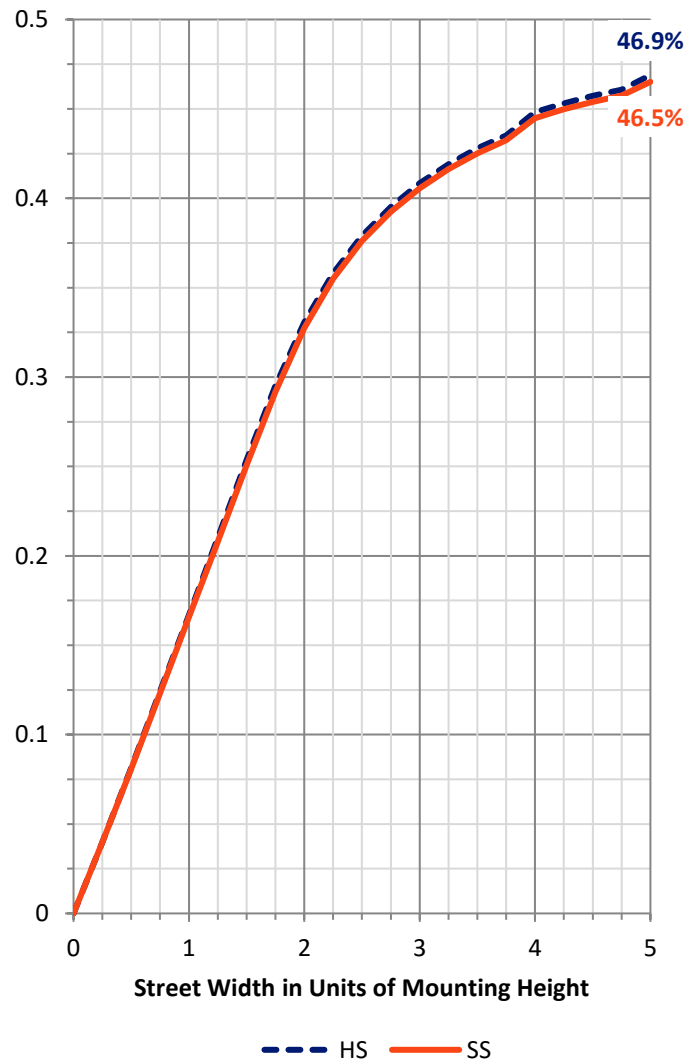
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3822.2	152.8	3975.0
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	3822.2	152.8	3975.0
	% Fixture	48.1	1.9	50.0
Total	Lumens	7644.5	305.5	7950.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.5	0.1
10°-20°	40.0	0.5
20°-30°	105.7	1.3
30°-40°	240.5	3.0
40°-50°	486.4	6.1
50°-60°	1439.8	18.1
60°-70°	2705.0	34.0
70°-80°	2010.6	25.3
80°-90°	607.0	7.6
90°-100°	197.0	2.5
100°-110°	69.0	0.9
110°-120°	26.7	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°	7644.5	96.2
0°-180°	7950.0	100.0

Coefficient of Utilization



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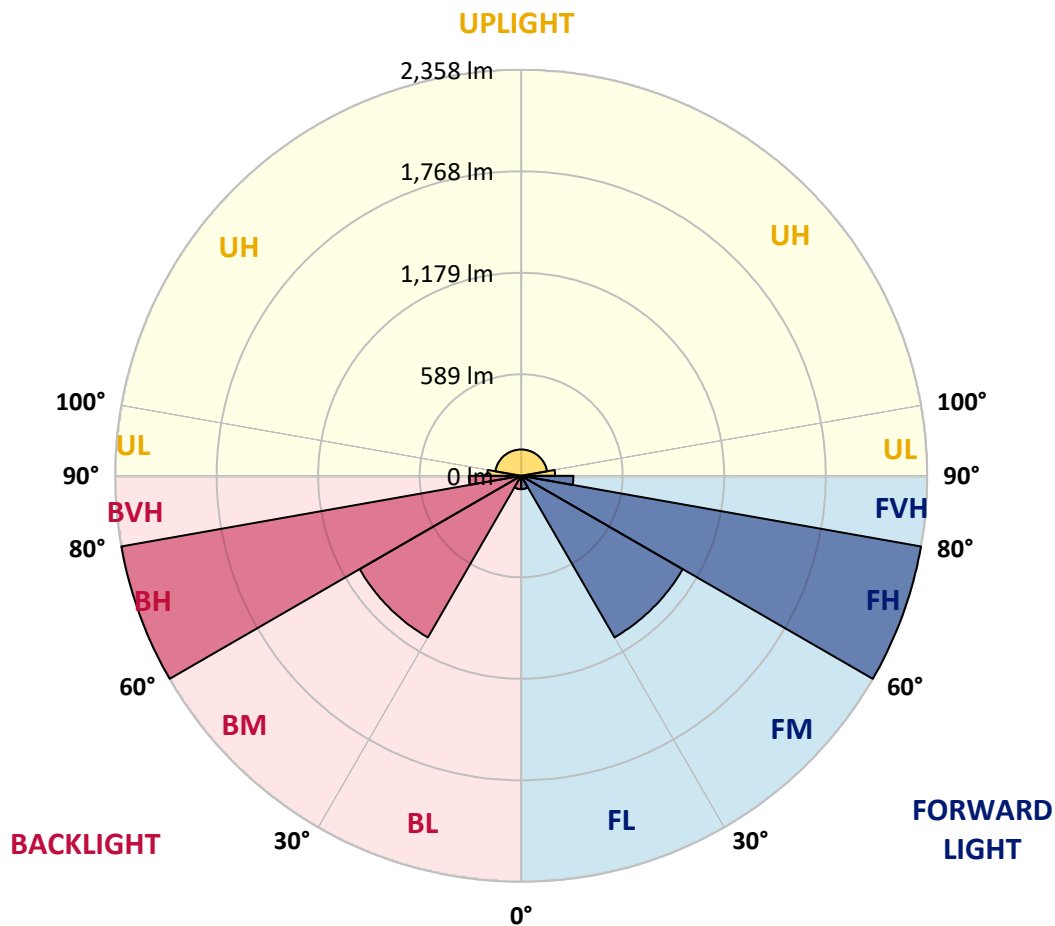
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	77.6	1.0			
FM	(30°-60°)	1083.3	13.6			
FH	(60°-80°)	2357.8	29.7			G2/5000
FVH	(80°-90°)	303.5	3.8			G3/500
BL	(0°-30°)	77.6	1.0	B0/110		
BM	(30°-60°)	1083.3	13.6	B2/2500		
BH	(60°-80°)	2357.8	29.7	B3/2500		G2/5000
BVH	(80°-90°)	303.5	3.8			G3/500
UL	(90°-100°)	197.0	2.5		U3/500	
UH	(100°-180°)	152.8	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°	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
2.5°	88.9	88.9	88.9	87.4	85.9	85.9	85.9	85.9	84.4	84.4	84.4
5°	93.5	93.5	91.9	90.4	90.4	88.9	90.4	88.9	88.9	88.9	90.4
7.5°	104.0	104.0	102.5	102.5	102.5	101.0	101.0	101.0	101.0	99.5	101.0
10°	116.1	116.1	116.1	116.1	116.1	114.6	114.6	113.1	113.1	113.1	113.1
12.5°	129.6	128.1	128.1	129.6	128.1	126.6	126.6	126.6	125.1	125.1	125.1
15°	141.7	141.7	140.2	140.2	140.2	138.7	138.7	137.2	137.2	135.7	135.7
17.5°	153.8	153.8	152.2	150.7	150.7	150.7	149.2	149.2	147.7	147.7	147.7
20°	168.8	167.3	165.8	164.3	162.8	162.8	162.8	162.8	161.3	159.8	159.8
22.5°	185.4	183.9	182.4	180.9	180.9	179.4	179.4	177.9	177.9	176.4	174.9
25°	220.1	220.1	214.0	212.5	212.5	214.0	212.5	211.0	208.0	203.5	203.5
27.5°	266.8	268.3	269.8	277.4	275.8	265.3	259.3	256.3	254.7	254.7	256.3
30°	319.6	321.1	325.6	333.1	328.6	315.0	300.0	293.9	298.5	304.5	306.0
32.5°	375.3	375.3	366.3	355.7	345.2	336.1	331.6	328.6	327.1	322.6	322.6
35°	419.0	411.5	382.9	348.2	337.6	343.7	361.8	367.8	345.2	324.1	321.1
37.5°	468.8	467.3	444.7	419.0	399.4	396.4	416.0	422.1	397.9	384.4	382.9
40°	521.5	524.6	529.1	518.5	488.4	479.3	468.8	461.3	461.3	462.8	459.7
42.5°	592.4	596.9	596.9	598.4	574.3	553.2	532.1	520.0	518.5	530.6	535.1
45°	687.4	687.4	676.8	655.7	645.1	630.1	616.5	604.4	598.4	599.9	604.4
47.5°	729.6	732.6	723.5	693.4	685.8	670.8	651.2	646.7	649.7	654.2	655.7
50°	877.3	869.7	807.9	744.6	722.0	737.1	765.7	773.3	744.6	716.0	708.5
52.5°	1136.5	1135.0	1086.8	1040.1	1008.4	999.4	1038.6	1041.6	991.8	970.7	967.7
55°	1585.7	1569.2	1605.3	1627.9	1561.6	1487.8	1460.6	1422.9	1426.0	1468.2	1469.7
57.5°	2223.3	2232.4	2273.1	2214.3	2113.3	2059.0	2021.4	1950.5	1952.0	1989.7	1992.7
60°	3032.8	3031.3	2901.7	2675.6	2520.3	2530.8	2634.9	2649.9	2488.6	2384.6	2372.6
62.5°	3390.0	3373.5	3266.4	2992.1	2729.8	2725.3	2913.7	2937.8	2826.3	2687.6	2660.5
65°	3120.2	3106.7	3151.9	3058.4	2713.2	2624.3	2681.6	2675.6	2746.4	2809.7	2817.2
67.5°	2778.1	2781.1	2889.6	2861.0	2621.3	2470.6	2398.2	2389.2	2521.8	2669.5	2689.1
70°	2548.9	2548.9	2625.8	2509.7	2395.2	2297.2	2221.8	2175.1	2261.0	2285.2	2283.6
72.5°	2431.4	2420.8	2366.5	2255.0	2167.6	2081.7	2104.3	2069.6	2028.9	1965.6	1959.6
75°	2221.8	2209.8	2134.4	2081.7	2018.3	1911.3	1930.9	1896.3	1828.4	1771.1	1762.1
77.5°	1836.0	1836.0	1787.7	1748.5	1730.4	1638.5	1629.5	1612.9	1545.0	1513.4	1501.3
80°	1314.4	1311.4	1291.8	1278.2	1300.8	1246.6	1222.5	1222.5	1195.3	1166.7	1153.1
82.5°	782.3	771.8	771.8	776.3	762.7	728.1	734.1	768.8	765.7	749.2	737.1
85°	462.8	456.7	452.2	446.2	434.1	410.0	410.0	413.0	416.0	417.5	411.5
87.5°	309.0	307.5	307.5	307.5	293.9	277.4	284.9	289.4	286.4	284.9	283.4
90°	269.8	271.3	269.8	263.8	251.7	236.7	239.7	245.7	242.7	242.7	241.2
92.5°	242.7	242.7	239.7	233.6	221.6	208.0	209.5	212.5	211.0	209.5	208.0
95°	199.0	199.0	196.0	191.4	180.9	168.8	170.3	173.3	170.3	170.3	168.8
97.5°	155.3	155.3	153.8	150.7	141.7	132.6	134.2	135.7	134.2	134.2	132.6
100°	117.6	117.6	116.1	111.5	107.0	99.5	101.0	104.0	102.5	102.5	101.0
102.5°	87.4	87.4	85.9	84.4	78.4	73.9	75.4	75.4	75.4	73.9	73.9
105°	67.8	67.8	67.8	64.8	61.8	57.3	57.3	57.3	57.3	55.8	55.8
107.5°	54.3	52.8	52.8	51.3	48.2	45.2	45.2	45.2	45.2	45.2	45.2
110°	43.7	42.2	40.7	40.7	37.7	36.2	34.7	36.2	36.2	36.2	36.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	37.7	36.2	33.2	33.2	31.7	28.6	28.6	28.6	31.7	30.1	30.1
115°	33.2	31.7	27.1	27.1	25.6	24.1	24.1	24.1	27.1	24.1	24.1
117.5°	28.6	27.1	22.6	22.6	21.1	19.6	19.6	19.6	22.6	19.6	19.6
120°	21.1	21.1	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	19.6	12.1	12.1	10.6	10.6	10.6	9.0	10.6	9.0	9.0
127.5°	18.1	16.6	9.0	9.0	9.0	7.5	7.5	7.5	7.5	7.5	7.5
130°	6.0	9.0	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)