

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: P588361

Luminaire Tested: **ARC-CA6-100-740-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588361
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-CA6-100-740-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: 9626 lumens
Efficiency: N/A
Efficacy: 92.8 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



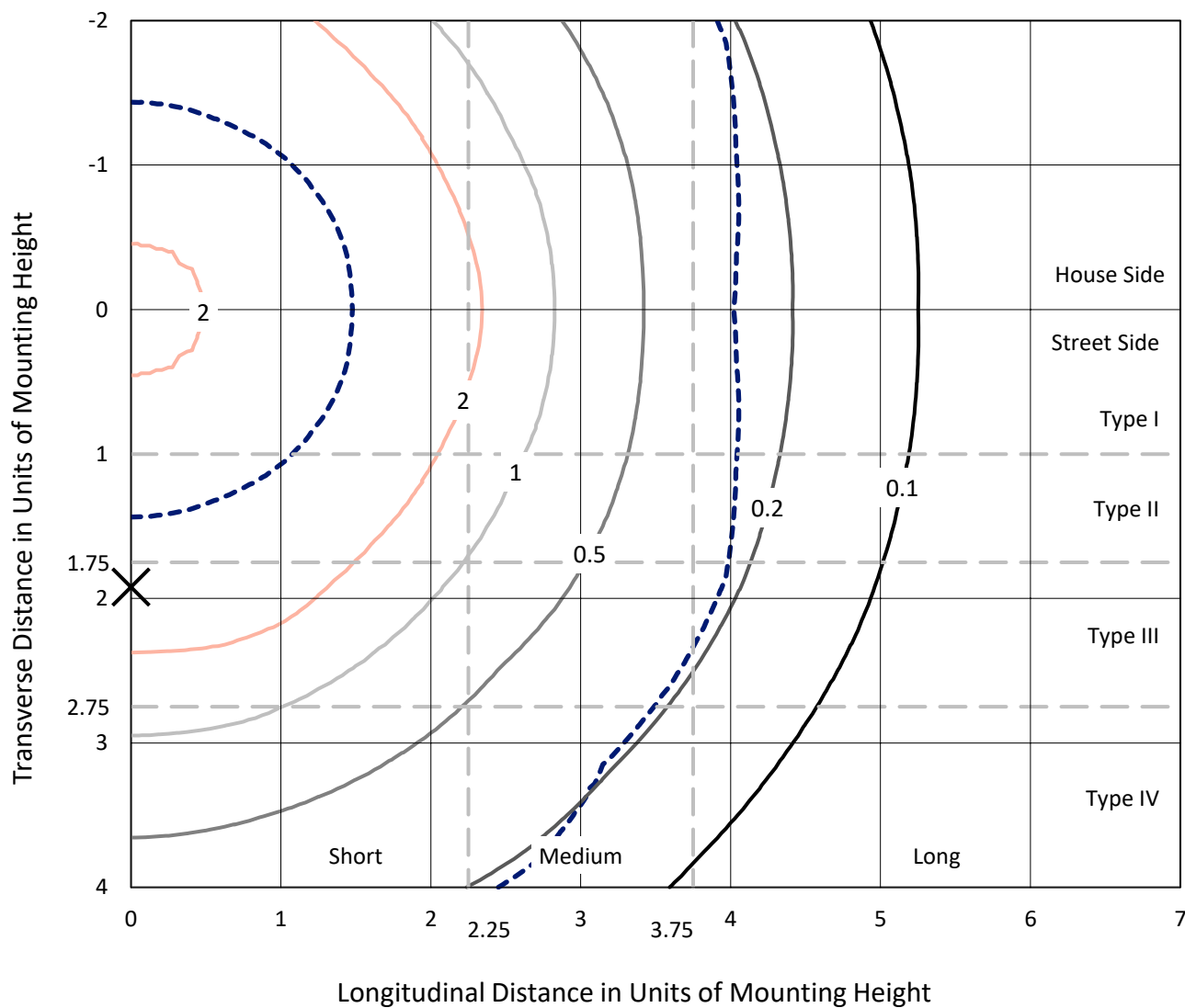
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

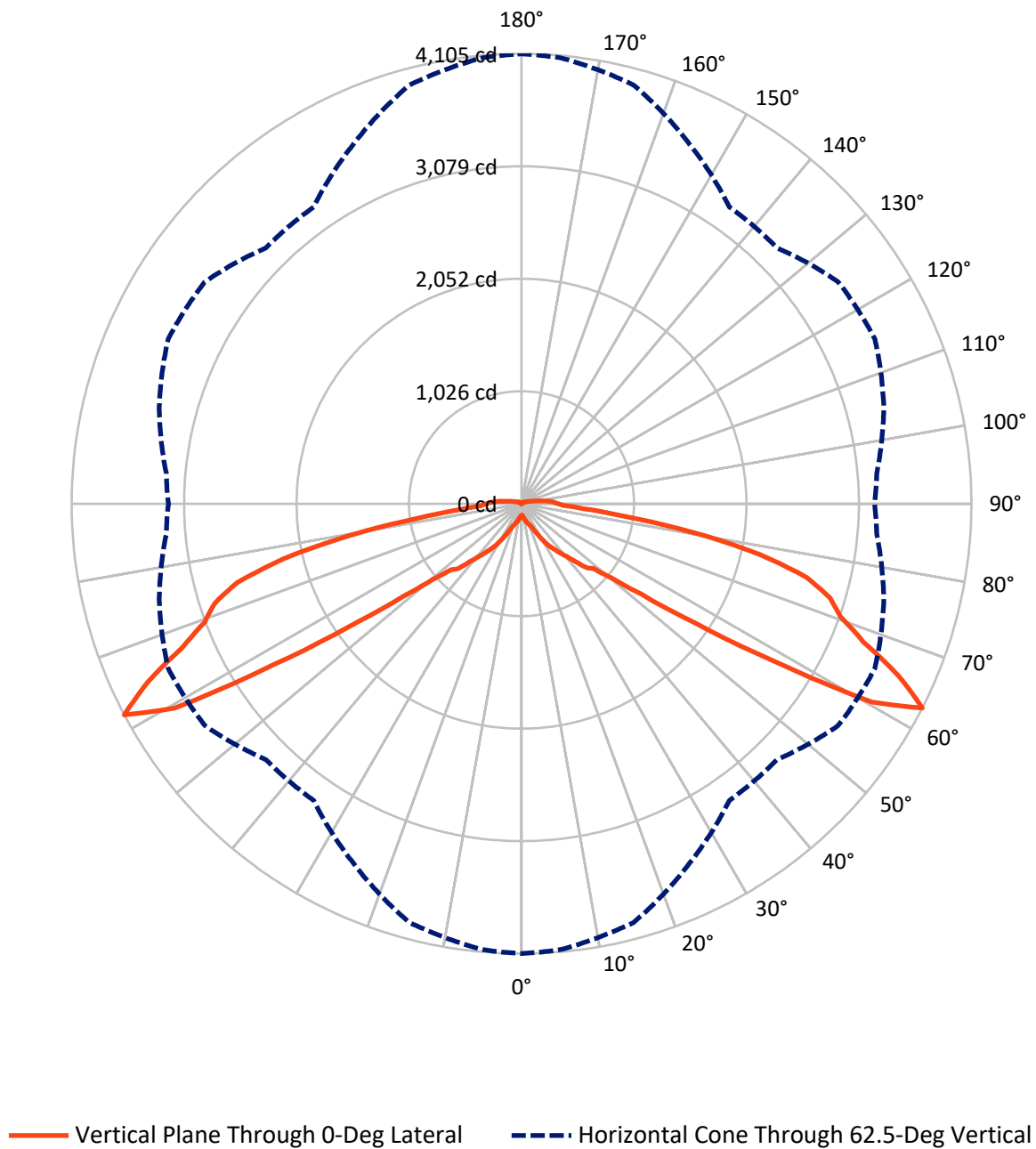


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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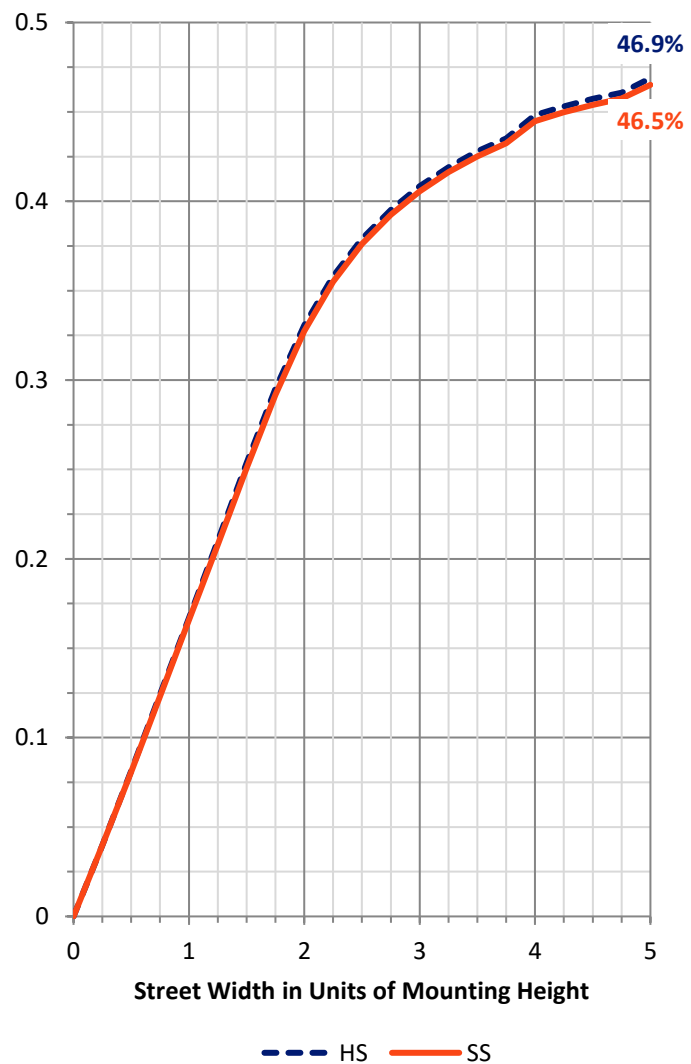
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4628.0	185.0	4813.0
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	4628.0	185.0	4813.0
	% Fixture	48.1	1.9	50.0
Total	Lumens	9256.0	370.0	9626.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.5	0.1
10°-20°	48.5	0.5
20°-30°	128.0	1.3
30°-40°	291.2	3.0
40°-50°	588.9	6.1
50°-60°	1743.4	18.1
60°-70°	3275.2	34.0
70°-80°	2434.5	25.3
80°-90°	734.9	7.6
90°-100°	238.5	2.5
100°-110°	83.6	0.9
110°-120°	32.3	0.3
120°-130°	12.8	0.1
130°-140°	2.6	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°	9256.0	96.2
0°-180°	9626.0	100.0

Coefficient of Utilization



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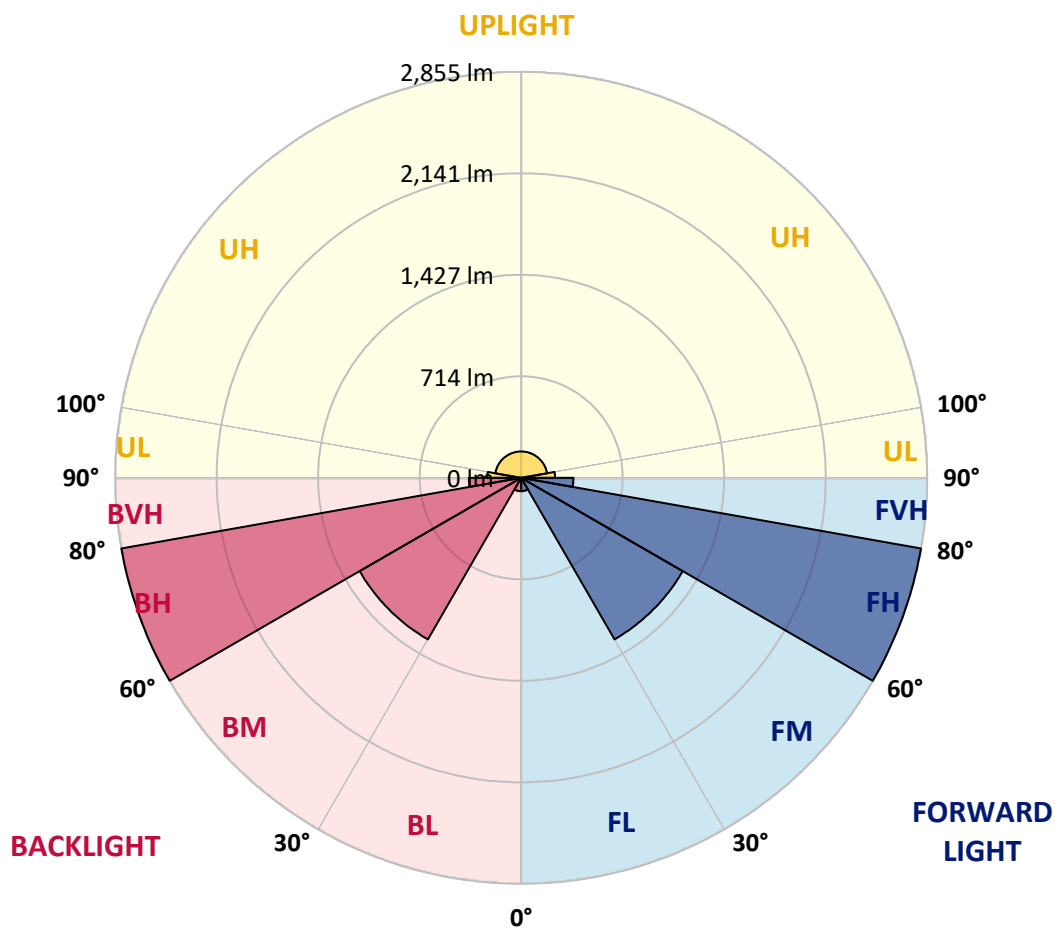
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	94.0	1.0			
FM	(30°-60°)	1311.7	13.6			
FH	(60°-80°)	2854.9	29.7			G2/5000
FVH	(80°-90°)	367.5	3.8			G3/500
BL	(0°-30°)	94.0	1.0	B0/110		
BM	(30°-60°)	1311.7	13.6	B2/2500		
BH	(60°-80°)	2854.9	29.7	B4/5000		G2/5000
BVH	(80°-90°)	367.5	3.8			G3/500
UL	(90°-100°)	238.5	2.5		U3/500	
UH	(100°-180°)	185.0	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°	105.9	105.9	105.9	105.9	105.9	105.9	105.9	105.9	105.9	105.9	105.9
2.5°	107.7	107.7	107.7	105.9	104.0	104.0	104.0	104.0	102.2	102.2	102.2
5°	113.2	113.2	111.3	109.5	109.5	107.7	109.5	107.7	107.7	107.7	109.5
7.5°	125.9	125.9	124.1	124.1	124.1	122.3	122.3	122.3	122.3	120.5	122.3
10°	140.5	140.5	140.5	140.5	140.5	138.7	138.7	136.9	136.9	136.9	136.9
12.5°	157.0	155.1	155.1	157.0	155.1	153.3	153.3	153.3	151.5	151.5	151.5
15°	171.6	171.6	169.7	169.7	169.7	167.9	167.9	166.1	166.1	164.3	164.3
17.5°	186.2	186.2	184.3	182.5	182.5	182.5	180.7	180.7	178.9	178.9	178.9
20°	204.4	202.6	200.8	198.9	197.1	197.1	197.1	197.1	195.3	193.5	193.5
22.5°	224.5	222.7	220.8	219.0	219.0	217.2	217.2	215.4	215.4	213.5	211.7
25°	266.5	266.5	259.2	257.3	257.3	259.2	257.3	255.5	251.9	246.4	246.4
27.5°	323.0	324.9	326.7	335.8	334.0	321.2	313.9	310.3	308.4	308.4	310.3
30°	386.9	388.8	394.2	403.4	397.9	381.5	363.2	355.9	361.4	368.7	370.5
32.5°	454.5	454.5	443.5	430.7	418.0	407.0	401.5	397.9	396.1	390.6	390.6
35°	507.4	498.3	463.6	421.6	408.8	416.1	438.0	445.3	418.0	392.4	388.8
37.5°	567.6	565.8	538.4	507.4	483.7	480.0	503.7	511.0	481.8	465.4	463.6
40°	631.5	635.1	640.6	627.8	591.3	580.4	567.6	558.5	558.5	560.3	556.7
42.5°	717.3	722.8	722.8	724.6	695.4	669.8	644.3	629.7	627.8	642.4	647.9
45°	832.3	832.3	819.5	793.9	781.2	762.9	746.5	731.9	724.6	726.4	731.9
47.5°	883.4	887.0	876.1	839.6	830.4	812.2	788.5	783.0	786.6	792.1	793.9
50°	1062.2	1053.1	978.3	901.6	874.2	892.5	927.2	936.3	901.6	866.9	857.8
52.5°	1376.1	1374.3	1315.9	1259.3	1221.0	1210.1	1257.5	1261.2	1200.9	1175.4	1171.7
55°	1920.0	1900.0	1943.8	1971.1	1890.8	1801.4	1768.6	1722.9	1726.6	1777.7	1779.5
57.5°	2692.1	2703.0	2752.3	2681.1	2558.8	2493.1	2447.5	2361.7	2363.5	2409.2	2412.8
60°	3672.2	3670.3	3513.4	3239.6	3051.6	3064.4	3190.3	3208.6	3013.3	2887.4	2872.8
62.5°	4104.7	4084.6	3955.1	3622.9	3305.3	3299.8	3528.0	3557.2	3422.1	3254.2	3221.4
65°	3778.0	3761.6	3816.4	3703.2	3285.2	3177.6	3246.9	3239.6	3325.4	3402.0	3411.2
67.5°	3363.7	3367.4	3498.8	3464.1	3173.9	2991.4	2903.8	2892.8	3053.4	3232.3	3256.0
70°	3086.3	3086.3	3179.4	3038.8	2900.1	2781.5	2690.2	2633.7	2737.7	2766.9	2765.1
72.5°	2943.9	2931.2	2865.5	2730.4	2624.5	2520.5	2547.9	2505.9	2456.6	2380.0	2372.7
75°	2690.2	2675.6	2584.4	2520.5	2443.9	2314.3	2338.0	2296.0	2213.9	2144.5	2133.6
77.5°	2223.0	2223.0	2164.6	2117.2	2095.3	1983.9	1973.0	1952.9	1870.8	1832.4	1817.8
80°	1591.5	1587.9	1564.1	1547.7	1575.1	1509.4	1480.2	1480.2	1447.3	1412.7	1396.2
82.5°	947.2	934.5	934.5	939.9	923.5	881.5	888.8	930.8	927.2	907.1	892.5
85°	560.3	553.0	547.5	540.2	525.6	496.4	496.4	500.1	503.7	505.6	498.3
87.5°	374.2	372.3	372.3	372.3	355.9	335.8	344.9	350.4	346.8	344.9	343.1
90°	326.7	328.5	326.7	319.4	304.8	286.5	290.2	297.5	293.8	293.8	292.0
92.5°	293.8	293.8	290.2	282.9	268.3	251.9	253.7	257.3	255.5	253.7	251.9
95°	240.9	240.9	237.3	231.8	219.0	204.4	206.2	209.9	206.2	206.2	204.4
97.5°	188.0	188.0	186.2	182.5	171.6	160.6	162.4	164.3	162.4	162.4	160.6
100°	142.4	142.4	140.5	135.1	129.6	120.5	122.3	125.9	124.1	124.1	122.3
102.5°	105.9	105.9	104.0	102.2	94.9	89.4	91.3	91.3	91.3	89.4	89.4
105°	82.1	82.1	82.1	78.5	74.8	69.4	69.4	69.4	69.4	67.5	67.5
107.5°	65.7	63.9	63.9	62.1	58.4	54.8	54.8	54.8	54.8	54.8	54.8
110°	52.9	51.1	49.3	49.3	45.6	43.8	42.0	43.8	43.8	43.8	43.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	45.6	43.8	40.2	40.2	38.3	34.7	34.7	34.7	38.3	36.5	36.5
115°	40.2	38.3	32.9	32.9	31.0	29.2	29.2	29.2	32.9	29.2	29.2
117.5°	34.7	32.9	27.4	27.4	25.6	23.7	23.7	23.7	27.4	23.7	23.7
120°	25.6	25.6	21.9	21.9	21.9	20.1	20.1	20.1	21.9	20.1	20.1
122.5°	20.1	20.1	18.3	18.3	18.3	16.4	16.4	16.4	16.4	14.6	14.6
125°	20.1	23.7	14.6	14.6	12.8	12.8	12.8	11.0	12.8	11.0	11.0
127.5°	21.9	20.1	11.0	11.0	11.0	9.1	9.1	9.1	9.1	9.1	9.1
130°	7.3	11.0	7.3	7.3	7.3	7.3	7.3	7.3	5.5	5.5	5.5
132.5°	5.5	5.5	5.5	5.5	5.5	5.5	3.7	3.7	3.7	3.7	3.7
135°	3.7	3.7	3.7	3.7	3.7	3.7	1.8	1.8	1.8	1.8	1.8
137.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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	1.8	1.8	1.8	1.8	1.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8
170°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
172.5°	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
175°	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8
177.5°	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
180°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

(END OF REPORT)