

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: P588541

Luminaire Tested: **ARC-CA6-90-722-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588541
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-CA6-90-722-U-55-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR
Light Source: (6) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7430 lumens
Efficiency: N/A
Efficacy: 79.1 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): 93.9
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



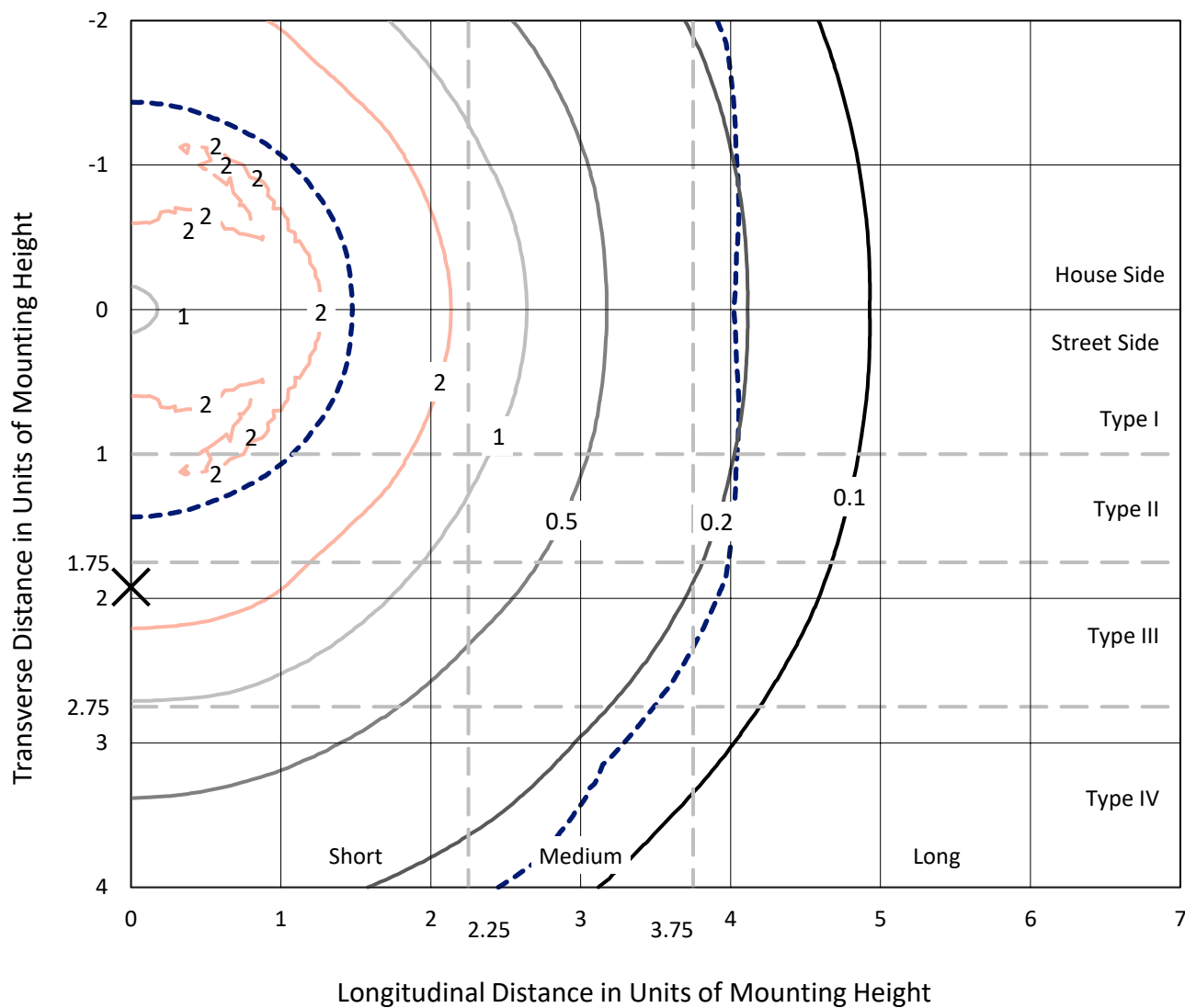
REPORT NUMBER: P588541

CATALOG NUMBER: ARC-CA6-90-722-U-55-6-5-X

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

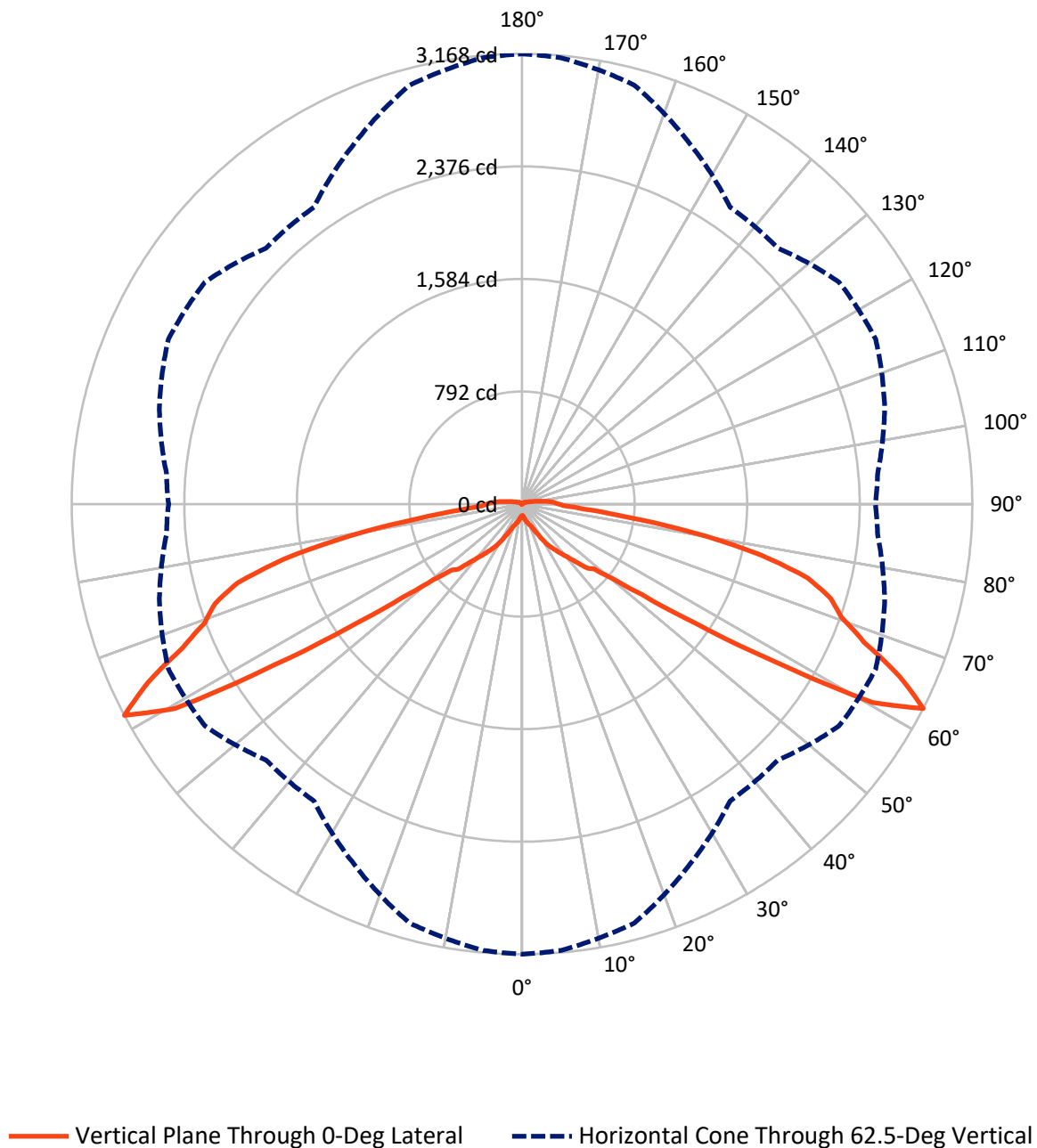


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P588541

CATALOG NUMBER: ARC-CA6-90-722-U-55-6-5-X

Luminous Intensity Polar Plot



REPORT NUMBER: P588541

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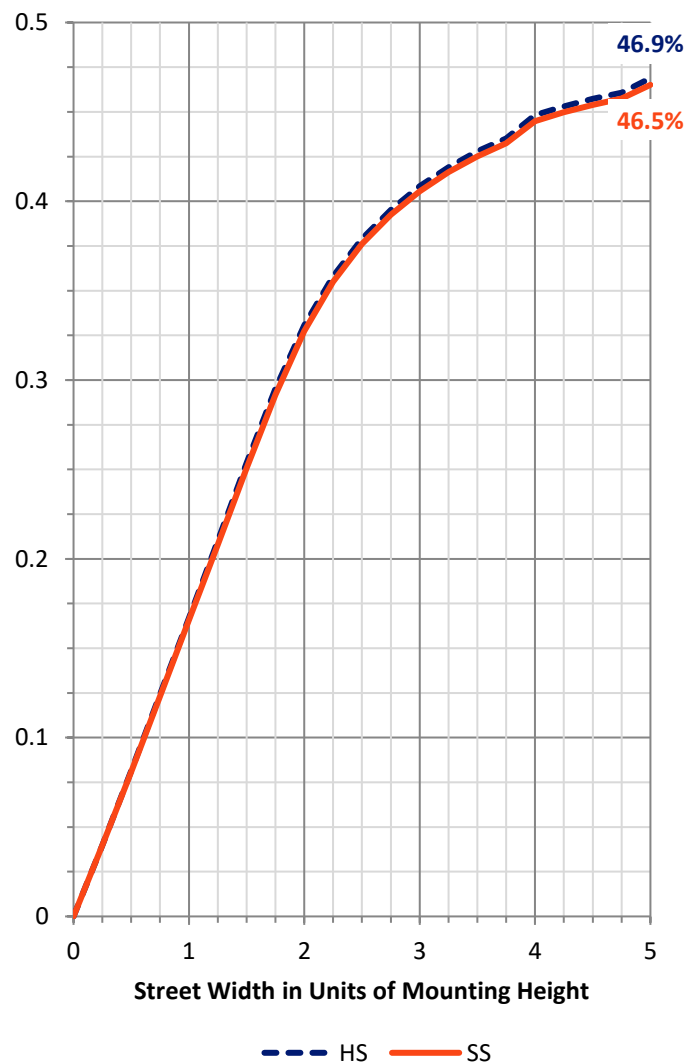
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3572.2	142.8	3715.0
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	3572.2	142.8	3715.0
	% Fixture	48.1	1.9	50.0
Total	Lumens	7144.5	285.5	7430.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.9	0.1
10°-20°	37.4	0.5
20°-30°	98.8	1.3
30°-40°	224.7	3.0
40°-50°	454.6	6.1
50°-60°	1345.6	18.1
60°-70°	2528.1	34.0
70°-80°	1879.1	25.3
80°-90°	567.3	7.6
90°-100°	184.1	2.5
100°-110°	64.5	0.9
110°-120°	24.9	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°	7144.5	96.2
0°-180°	7430.0	100.0

Coefficient of Utilization



REPORT NUMBER: P588541

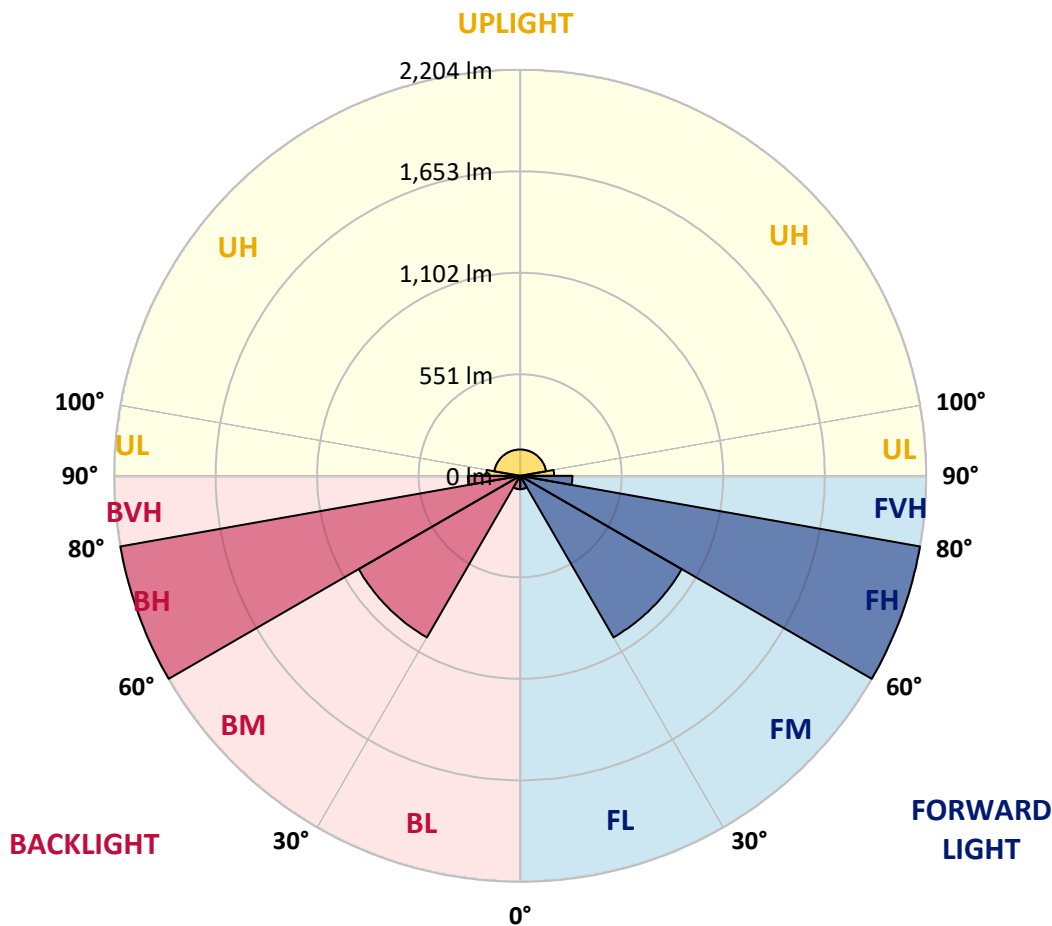
CATALOG NUMBER: ARC-CA6-90-722-U-55-6-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	72.5	1.0			
FM	(30°-60°)	1012.5	13.6			
FH	(60°-80°)	2203.6	29.7			G2/5000
FVH	(80°-90°)	283.6	3.8			G3/500
BL	(0°-30°)	72.5	1.0	B0/110		
BM	(30°-60°)	1012.5	13.6	B2/2500		
BH	(60°-80°)	2203.6	29.7	B3/2500		G2/5000
BVH	(80°-90°)	283.6	3.8			G3/500
UL	(90°-100°)	184.1	2.5		U3/500	
UH	(100°-180°)	142.8	1.9		U3/500	

BUG Rating: B3-U3-G3

Type V Short



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CATALOG NUMBER: ARC-CA6-90-722-U-55-6-5-X

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
2.5°	83.1	83.1	83.1	81.7	80.3	80.3	80.3	80.3	78.9	78.9	78.9
5°	87.3	87.3	85.9	84.5	84.5	83.1	84.5	83.1	83.1	83.1	84.5
7.5°	97.2	97.2	95.8	95.8	95.8	94.4	94.4	94.4	94.4	93.0	94.4
10°	108.5	108.5	108.5	108.5	108.5	107.1	107.1	105.7	105.7	105.7	105.7
12.5°	121.2	119.7	119.7	121.2	119.7	118.3	118.3	118.3	116.9	116.9	116.9
15°	132.4	132.4	131.0	131.0	131.0	129.6	129.6	128.2	128.2	126.8	126.8
17.5°	143.7	143.7	142.3	140.9	140.9	140.9	139.5	139.5	138.1	138.1	138.1
20°	157.8	156.4	155.0	153.6	152.1	152.1	152.1	152.1	150.7	149.3	149.3
22.5°	173.3	171.9	170.5	169.1	169.1	167.6	167.6	166.2	166.2	164.8	163.4
25°	205.7	205.7	200.0	198.6	198.6	200.0	198.6	197.2	194.4	190.2	190.2
27.5°	249.4	250.8	252.2	259.2	257.8	247.9	242.3	239.5	238.1	238.1	239.5
30°	298.7	300.1	304.3	311.3	307.1	294.4	280.3	274.7	278.9	284.6	286.0
32.5°	350.8	350.8	342.3	332.5	322.6	314.2	309.9	307.1	305.7	301.5	301.5
35°	391.6	384.6	357.8	325.4	315.6	321.2	338.1	343.7	322.6	302.9	300.1
37.5°	438.1	436.7	415.6	391.6	373.3	370.5	388.8	394.5	371.9	359.2	357.8
40°	487.4	490.2	494.5	484.6	456.4	448.0	438.1	431.1	431.1	432.5	429.7
42.5°	553.6	557.9	557.9	559.3	536.7	517.0	497.3	486.0	484.6	495.9	500.1
45°	642.4	642.4	632.5	612.8	602.9	588.9	576.2	564.9	559.3	560.7	564.9
47.5°	681.8	684.7	676.2	648.0	641.0	626.9	608.6	604.4	607.2	611.4	612.8
50°	819.9	812.9	755.1	695.9	674.8	688.9	715.7	722.7	695.9	669.2	662.1
52.5°	1062.2	1060.8	1015.7	972.0	942.5	934.0	970.6	973.5	927.0	907.2	904.4
55°	1482.0	1466.5	1500.3	1521.5	1459.5	1390.4	1365.1	1329.9	1332.7	1372.1	1373.5
57.5°	2077.9	2086.4	2124.4	2069.5	1975.1	1924.4	1889.1	1822.9	1824.3	1859.6	1862.4
60°	2834.4	2833.0	2711.9	2500.6	2355.4	2365.3	2462.5	2476.6	2325.9	2228.7	2217.4
62.5°	3168.3	3152.8	3052.8	2796.4	2551.3	2547.0	2723.1	2745.7	2641.4	2511.8	2486.5
65°	2916.1	2903.5	2945.7	2858.4	2535.8	2452.7	2506.2	2500.6	2566.8	2625.9	2633.0
67.5°	2596.3	2599.2	2700.6	2673.8	2449.8	2309.0	2241.3	2232.9	2356.9	2494.9	2513.2
70°	2382.2	2382.2	2454.1	2345.6	2238.5	2147.0	2076.5	2032.8	2113.1	2135.7	2134.3
72.5°	2272.3	2262.5	2211.8	2107.5	2025.8	1945.5	1966.6	1934.2	1896.2	1837.0	1831.4
75°	2076.5	2065.2	1994.8	1945.5	1886.3	1786.3	1804.6	1772.2	1708.8	1655.3	1646.8
77.5°	1715.9	1715.9	1670.8	1634.2	1617.3	1531.3	1522.9	1507.4	1444.0	1414.4	1403.1
80°	1228.4	1225.6	1207.3	1194.6	1215.8	1165.0	1142.5	1142.5	1117.1	1090.4	1077.7
82.5°	731.1	721.3	721.3	725.5	712.8	680.4	686.1	718.5	715.7	700.2	688.9
85°	432.5	426.9	422.6	417.0	405.7	383.2	383.2	386.0	388.8	390.2	384.6
87.5°	288.8	287.4	287.4	287.4	274.7	259.2	266.3	270.5	267.7	266.3	264.8
90°	252.2	253.6	252.2	246.5	235.3	221.2	224.0	229.6	226.8	226.8	225.4
92.5°	226.8	226.8	224.0	218.4	207.1	194.4	195.8	198.6	197.2	195.8	194.4
95°	186.0	186.0	183.1	178.9	169.1	157.8	159.2	162.0	159.2	159.2	157.8
97.5°	145.1	145.1	143.7	140.9	132.4	124.0	125.4	126.8	125.4	125.4	124.0
100°	109.9	109.9	108.5	104.2	100.0	93.0	94.4	97.2	95.8	95.8	94.4
102.5°	81.7	81.7	80.3	78.9	73.3	69.0	70.4	70.4	70.4	69.0	69.0
105°	63.4	63.4	63.4	60.6	57.8	53.5	53.5	53.5	53.5	52.1	52.1
107.5°	50.7	49.3	49.3	47.9	45.1	42.3	42.3	42.3	42.3	42.3	42.3
110°	40.9	39.4	38.0	38.0	35.2	33.8	32.4	33.8	33.8	33.8	33.8

REPORT NUMBER: P588541

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	35.2	33.8	31.0	31.0	29.6	26.8	26.8	26.8	29.6	28.2	28.2
115°	31.0	29.6	25.4	25.4	23.9	22.5	22.5	22.5	25.4	22.5	22.5
117.5°	26.8	25.4	21.1	21.1	19.7	18.3	18.3	18.3	21.1	18.3	18.3
120°	19.7	19.7	16.9	16.9	16.9	15.5	15.5	15.5	16.9	15.5	15.5
122.5°	15.5	15.5	14.1	14.1	14.1	12.7	12.7	12.7	12.7	11.3	11.3
125°	15.5	18.3	11.3	11.3	9.9	9.9	9.9	8.5	9.9	8.5	8.5
127.5°	16.9	15.5	8.5	8.5	8.5	7.0	7.0	7.0	7.0	7.0	7.0
130°	5.6	8.5	5.6	5.6	5.6	5.6	5.6	5.6	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)