

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: P588421

Luminaire Tested: **ARC-CA6-130-722-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588421
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-CA6-130-722-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: 9728 lumens
Efficiency: N/A
Efficacy: 78.3 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): 124.3
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

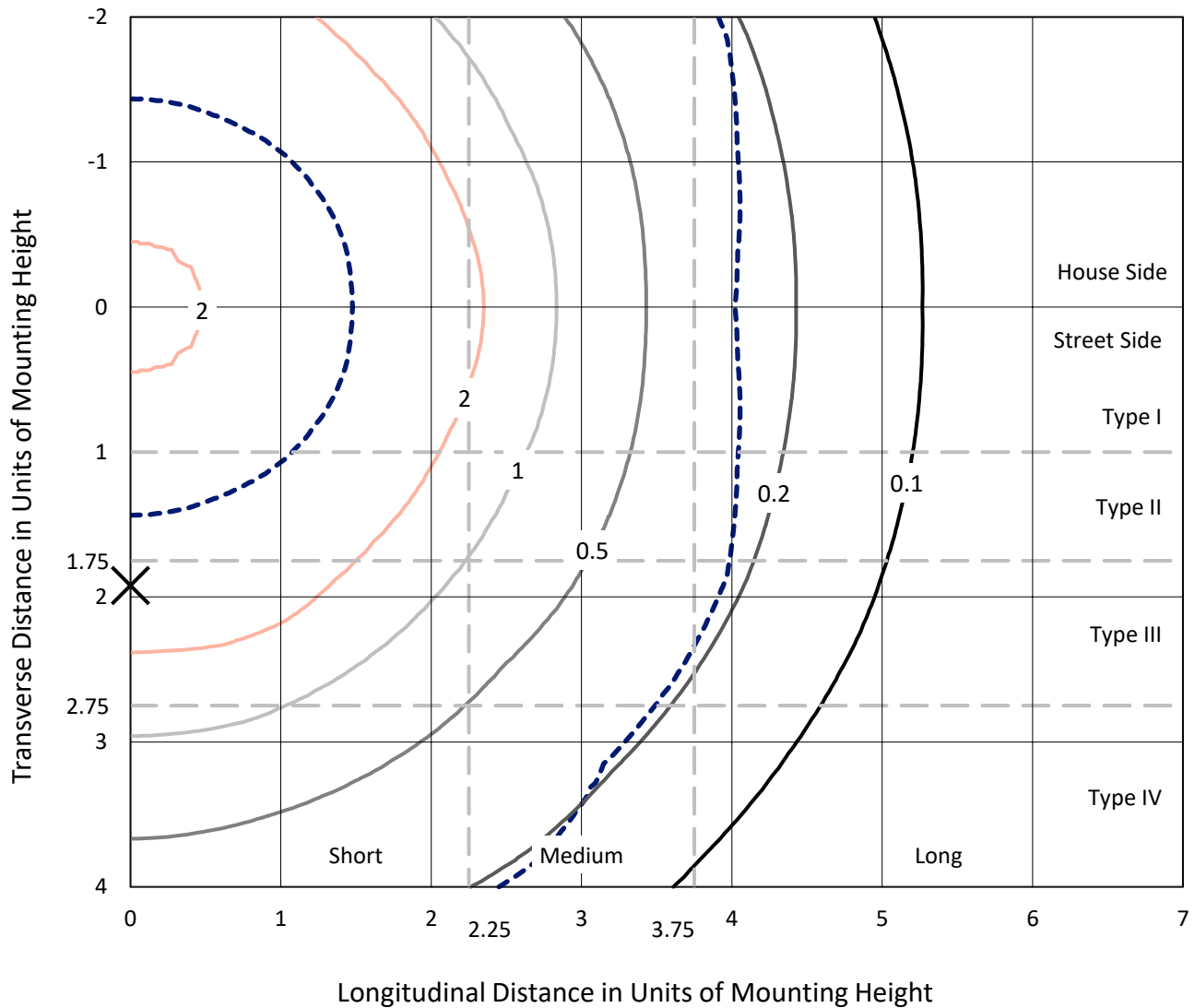


REPORT NUMBER: P588421

CATALOG NUMBER: ARC-CA6-130-722-U-55-6-5-X

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

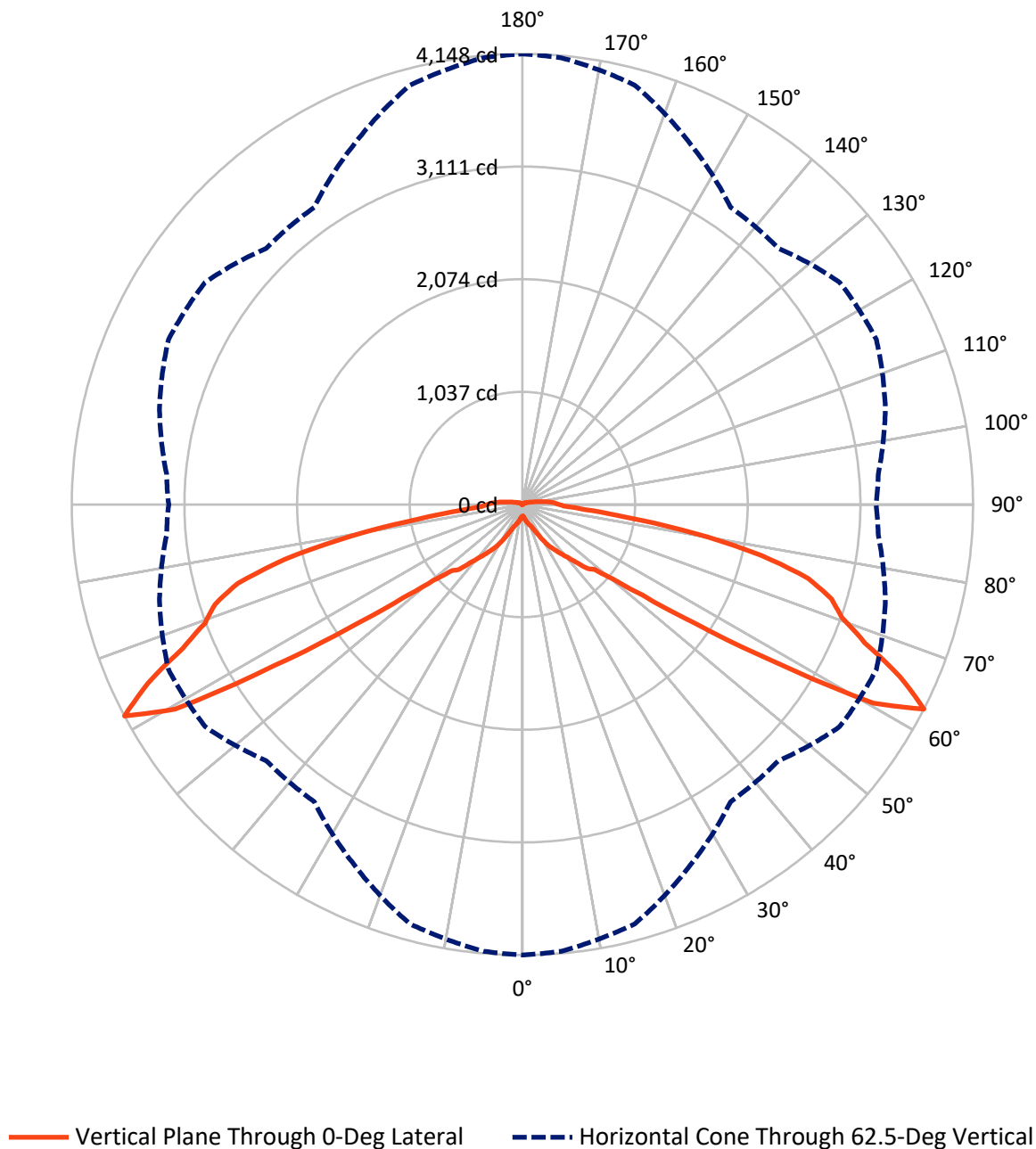


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P588421

CATALOG NUMBER: ARC-CA6-130-722-U-55-6-5-X

Luminous Intensity Polar Plot



REPORT NUMBER: P588421

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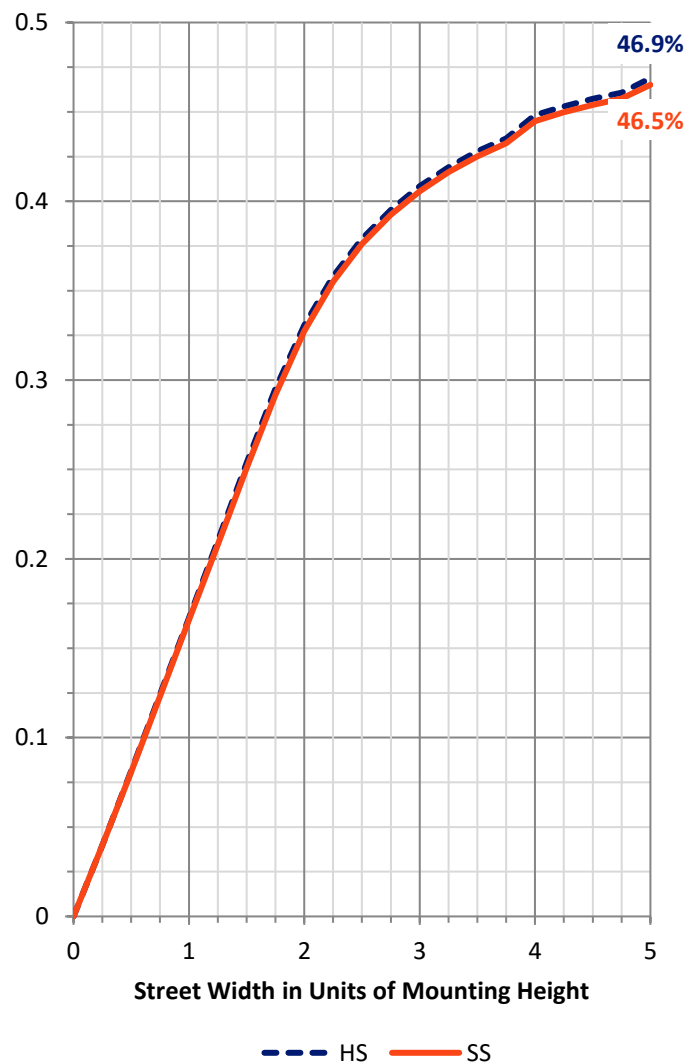
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4677.1	186.9	4864.0
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	4677.1	186.9	4864.0
	% Fixture	48.1	1.9	50.0
Total	Lumens	9354.1	373.8	9728.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.6	0.1
10°-20°	49.0	0.5
20°-30°	129.3	1.3
30°-40°	294.2	3.0
40°-50°	595.2	6.1
50°-60°	1761.8	18.1
60°-70°	3309.9	34.0
70°-80°	2460.3	25.3
80°-90°	742.7	7.6
90°-100°	241.0	2.5
100°-110°	84.4	0.9
110°-120°	32.6	0.3
120°-130°	12.9	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°	9354.1	96.2
0°-180°	9728.0	100.0

Coefficient of Utilization



REPORT NUMBER: P588421

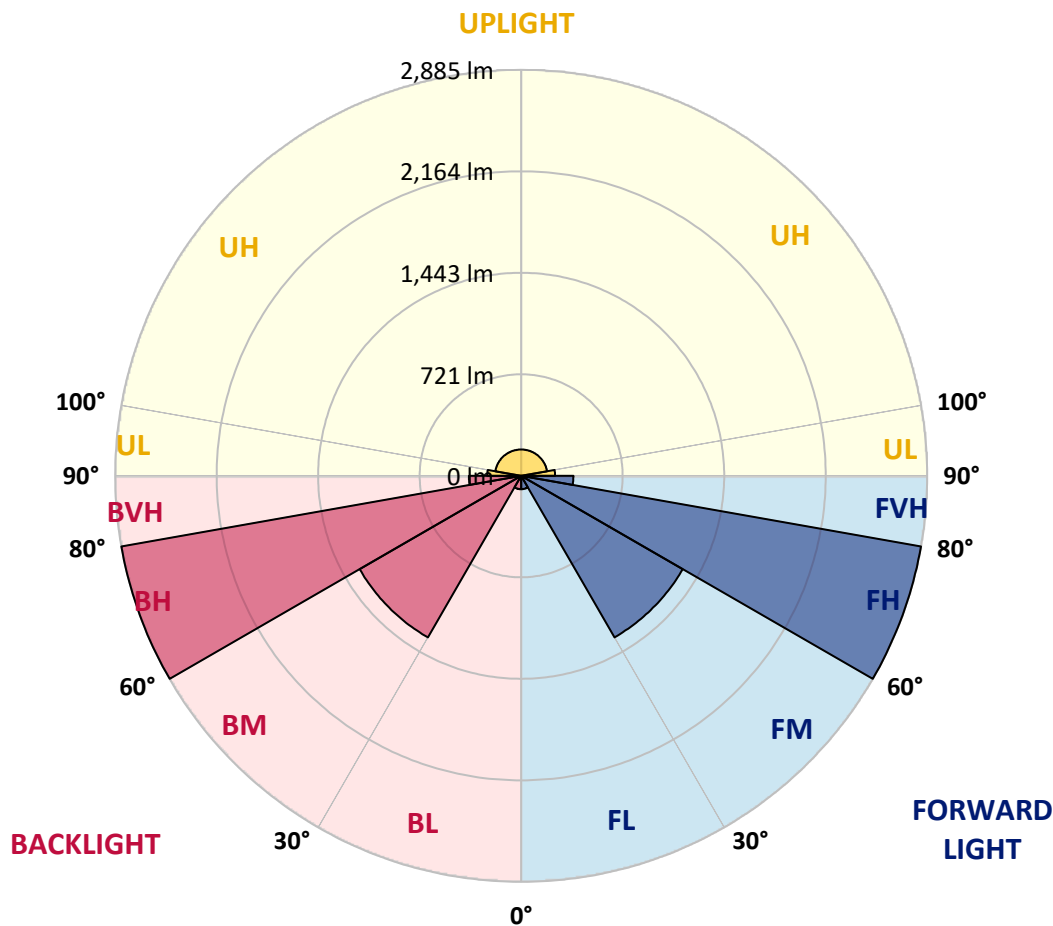
CATALOG NUMBER: ARC-CA6-130-722-U-55-6-5-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	95.0	1.0			
FM	(30°-60°)	1325.6	13.6			
FH	(60°-80°)	2885.1	29.7			G2/5000
FVH	(80°-90°)	371.4	3.8			G3/500
BL	(0°-30°)	95.0	1.0	B0/110		
BM	(30°-60°)	1325.6	13.6	B2/2500		
BH	(60°-80°)	2885.1	29.7	B4/5000		G2/5000
BVH	(80°-90°)	371.4	3.8			G3/500
UL	(90°-100°)	241.0	2.5		U3/500	
UH	(100°-180°)	186.9	1.9		U3/500	

BUG Rating: B4-U3-G3

Type V Short



REPORT NUMBER: P588421

CATALOG NUMBER: ARC-CA6-130-722-U-55-6-5-X

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0
2.5°	108.8	108.8	108.8	107.0	105.1	105.1	105.1	105.1	103.3	103.3	103.3
5°	114.4	114.4	112.5	110.7	110.7	108.8	110.7	108.8	108.8	108.8	110.7
7.5°	127.3	127.3	125.4	125.4	125.4	123.6	123.6	123.6	123.6	121.7	123.6
10°	142.0	142.0	142.0	142.0	142.0	140.2	140.2	138.3	138.3	138.3	138.3
12.5°	158.6	156.8	156.8	158.6	156.8	154.9	154.9	154.9	153.1	153.1	153.1
15°	173.4	173.4	171.5	171.5	171.5	169.7	169.7	167.8	167.8	166.0	166.0
17.5°	188.1	188.1	186.3	184.4	184.4	184.4	182.6	182.6	180.8	180.8	180.8
20°	206.6	204.7	202.9	201.0	199.2	199.2	199.2	199.2	197.4	195.5	195.5
22.5°	226.9	225.0	223.2	221.3	221.3	219.5	219.5	217.6	217.6	215.8	214.0
25°	269.3	269.3	261.9	260.1	260.1	261.9	260.1	258.2	254.5	249.0	249.0
27.5°	326.5	328.3	330.2	339.4	337.5	324.6	317.2	313.6	311.7	311.7	313.6
30°	391.0	392.9	398.4	407.6	402.1	385.5	367.0	359.7	365.2	372.6	374.4
32.5°	459.3	459.3	448.2	435.3	422.4	411.3	405.8	402.1	400.3	394.7	394.7
35°	512.8	503.5	468.5	426.1	413.2	420.5	442.7	450.1	422.4	396.6	392.9
37.5°	573.6	571.8	544.1	512.8	488.8	485.1	509.1	516.5	486.9	470.3	468.5
40°	638.2	641.9	647.4	634.5	597.6	586.5	573.6	564.4	564.4	566.3	562.6
42.5°	724.9	730.4	730.4	732.3	702.7	676.9	651.1	636.3	634.5	649.3	654.8
45°	841.1	841.1	828.2	802.3	789.4	771.0	754.4	739.6	732.3	734.1	739.6
47.5°	892.7	896.4	885.3	848.5	839.2	820.8	796.8	791.3	795.0	800.5	802.3
50°	1073.5	1064.3	988.6	911.2	883.5	901.9	937.0	946.2	911.2	876.1	866.9
52.5°	1390.7	1388.9	1329.9	1272.7	1234.0	1222.9	1270.8	1274.5	1213.7	1187.8	1184.2
55°	1940.4	1920.1	1964.4	1992.0	1910.9	1820.5	1787.3	1741.2	1744.9	1796.5	1798.4
57.5°	2720.6	2731.7	2781.5	2709.5	2585.9	2519.5	2473.4	2386.7	2388.6	2434.7	2438.4
60°	3711.1	3709.2	3550.6	3273.9	3084.0	3096.9	3224.1	3242.6	3045.2	2918.0	2903.2
62.5°	4148.2	4127.9	3997.0	3661.3	3340.3	3334.8	3565.4	3594.9	3458.4	3288.7	3255.5
65°	3818.1	3801.5	3856.8	3742.4	3320.0	3211.2	3281.3	3273.9	3360.6	3438.1	3447.3
67.5°	3399.4	3403.1	3535.9	3500.8	3207.5	3023.1	2934.6	2923.5	3085.8	3266.6	3290.5
70°	3119.0	3119.0	3213.1	3071.0	2930.9	2811.0	2718.8	2661.6	2766.7	2796.2	2794.4
72.5°	2975.1	2962.2	2895.8	2759.3	2652.4	2547.2	2574.9	2532.5	2482.7	2405.2	2397.8
75°	2718.8	2704.0	2611.8	2547.2	2469.7	2338.8	2362.8	2320.3	2237.3	2167.3	2156.2
77.5°	2246.6	2246.6	2187.5	2139.6	2117.5	2004.9	1993.9	1973.6	1890.6	1851.8	1837.1
80°	1608.4	1604.7	1580.7	1564.1	1591.8	1525.4	1495.9	1495.9	1462.7	1427.6	1411.0
82.5°	957.3	944.4	944.4	949.9	933.3	890.9	898.3	940.7	937.0	916.7	901.9
85°	566.3	558.9	553.3	546.0	531.2	501.7	501.7	505.4	509.1	510.9	503.5
87.5°	378.1	376.3	376.3	376.3	359.7	339.4	348.6	354.1	350.4	348.6	346.8
90°	330.2	332.0	330.2	322.8	308.0	289.6	293.3	300.6	297.0	297.0	295.1
92.5°	297.0	297.0	293.3	285.9	271.1	254.5	256.4	260.1	258.2	256.4	254.5
95°	243.5	243.5	239.8	234.2	221.3	206.6	208.4	212.1	208.4	208.4	206.6
97.5°	190.0	190.0	188.1	184.4	173.4	162.3	164.2	166.0	164.2	164.2	162.3
100°	143.9	143.9	142.0	136.5	131.0	121.7	123.6	127.3	125.4	125.4	123.6
102.5°	107.0	107.0	105.1	103.3	95.9	90.4	92.2	92.2	92.2	90.4	90.4
105°	83.0	83.0	83.0	79.3	75.6	70.1	70.1	70.1	70.1	68.2	68.2
107.5°	66.4	64.6	64.6	62.7	59.0	55.3	55.3	55.3	55.3	55.3	55.3
110°	53.5	51.6	49.8	49.8	46.1	44.3	42.4	44.3	44.3	44.3	44.3

REPORT NUMBER: P588421

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	46.1	44.3	40.6	40.6	38.7	35.0	35.0	35.0	38.7	36.9	36.9
115°	40.6	38.7	33.2	33.2	31.4	29.5	29.5	29.5	33.2	29.5	29.5
117.5°	35.0	33.2	27.7	27.7	25.8	24.0	24.0	24.0	27.7	24.0	24.0
120°	25.8	25.8	22.1	22.1	22.1	20.3	20.3	20.3	22.1	20.3	20.3
122.5°	20.3	20.3	18.4	18.4	18.4	16.6	16.6	16.6	16.6	14.8	14.8
125°	20.3	24.0	14.8	14.8	12.9	12.9	12.9	11.1	12.9	11.1	11.1
127.5°	22.1	20.3	11.1	11.1	11.1	9.2	9.2	9.2	9.2	9.2	9.2
130°	7.4	11.1	7.4	7.4	7.4	7.4	7.4	7.4	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)