

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: P588493

Luminaire Tested: **ARC-CA6-70-722-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588493
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-CA6-70-722-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: 5964 lumens
Efficiency: N/A
Efficacy: 80.7 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



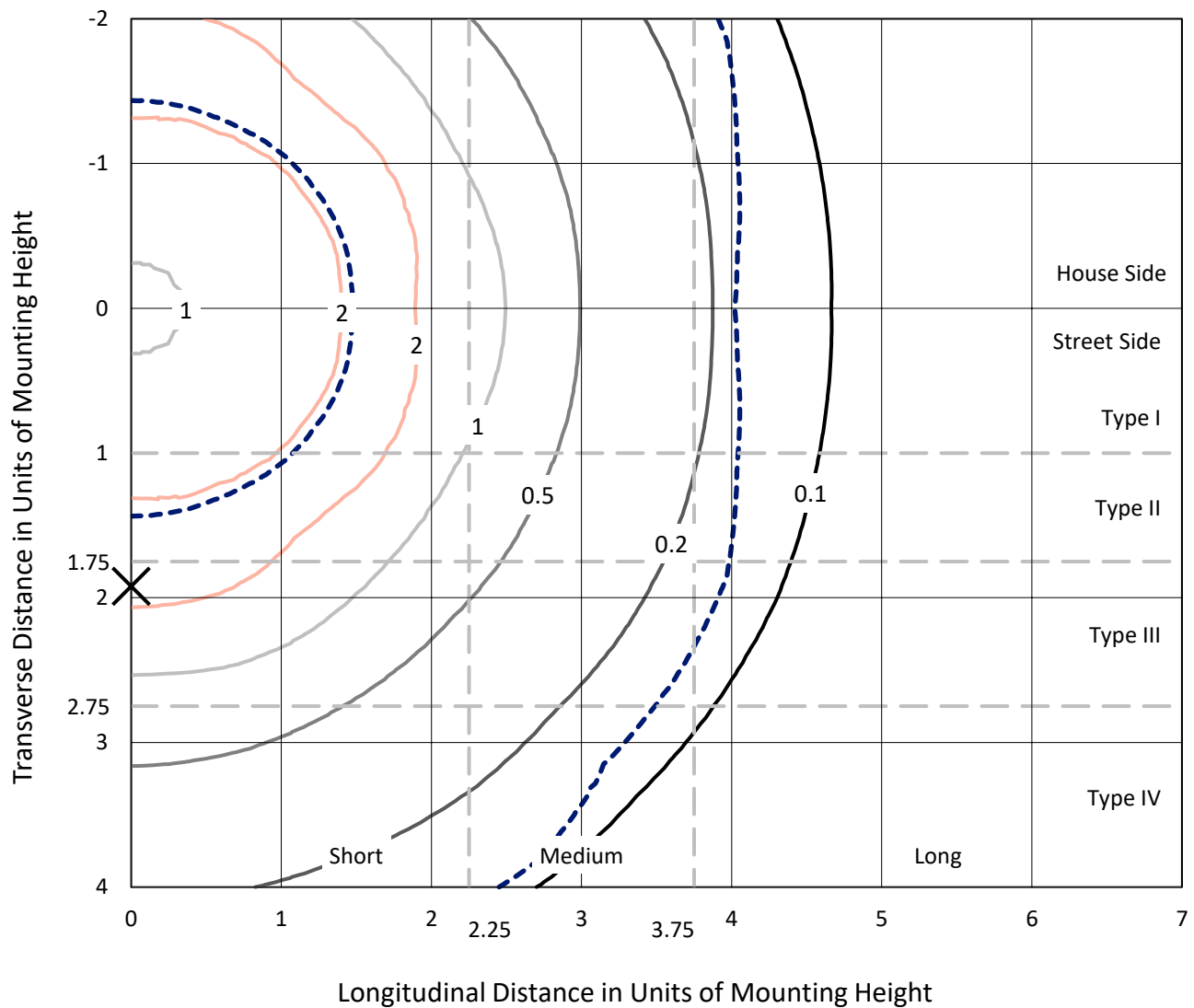
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Iso-Footcandle Lines of Horizontal Illumination

✘ Max cd

--- 1/2 Max cd

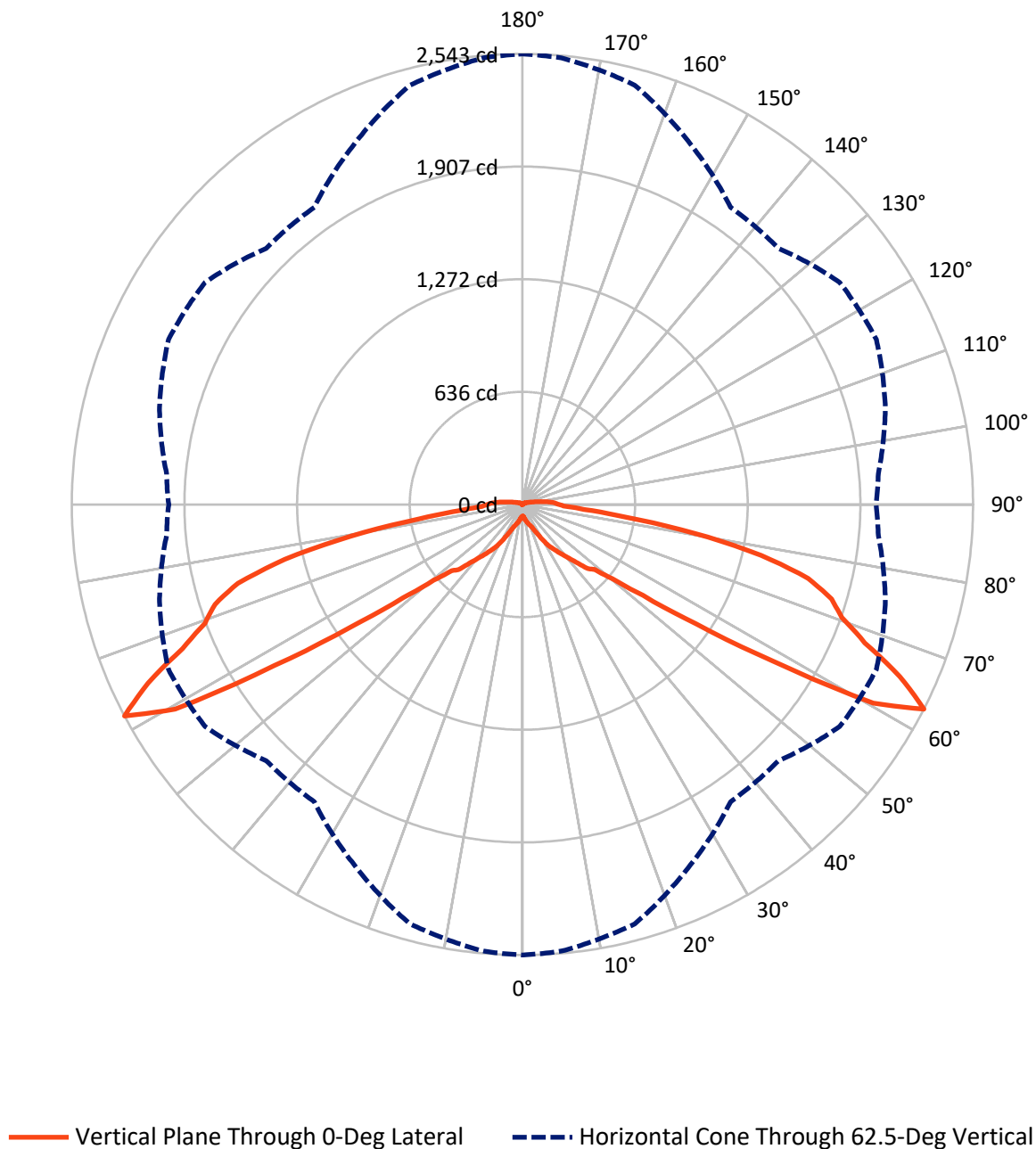


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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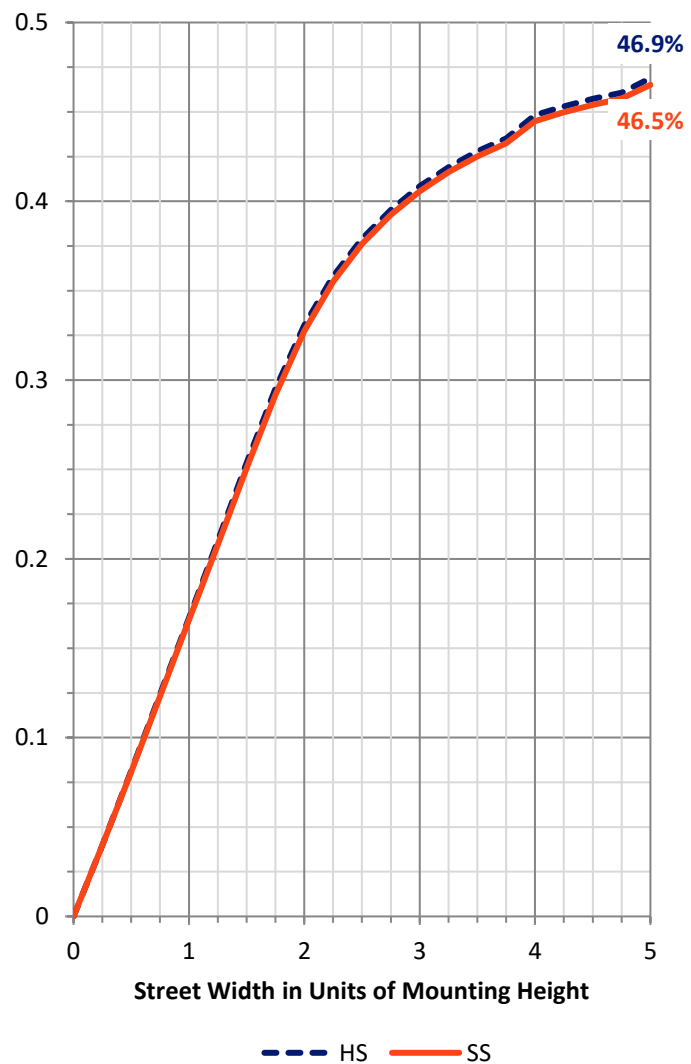
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2867.4	114.6	2982.0
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	2867.4	114.6	2982.0
	% Fixture	48.1	1.9	50.0
Total	Lumens	5734.8	229.2	5964.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.1	0.1
10°-20°	30.0	0.5
20°-30°	79.3	1.3
30°-40°	180.4	3.0
40°-50°	364.9	6.1
50°-60°	1080.1	18.1
60°-70°	2029.2	34.0
70°-80°	1508.4	25.3
80°-90°	455.3	7.6
90°-100°	147.7	2.5
100°-110°	51.8	0.9
110°-120°	20.0	0.3
120°-130°	7.9	0.1
130°-140°	1.6	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°	5734.8	96.2
0°-180°	5964.0	100.0

Coefficient of Utilization



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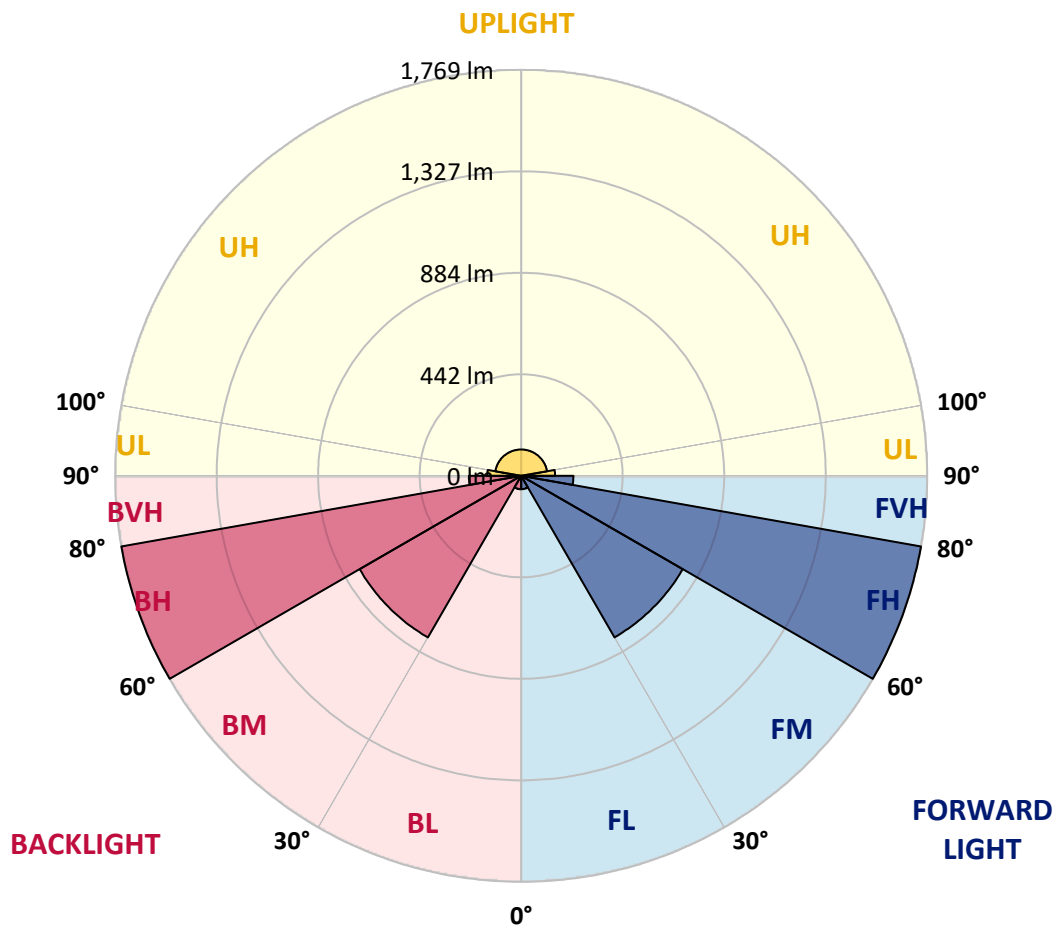
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	58.2	1.0			
FM	(30°-60°)	812.7	13.6			
FH	(60°-80°)	1768.8	29.7			G1/1800
FVH	(80°-90°)	227.7	3.8			G3/500
BL	(0°-30°)	58.2	1.0	B0/110		
BM	(30°-60°)	812.7	13.6	B1/1000		
BH	(60°-80°)	1768.8	29.7	B3/2500		G1/1800
BVH	(80°-90°)	227.7	3.8			G3/500
UL	(90°-100°)	147.7	2.5		U3/500	
UH	(100°-180°)	114.6	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°	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
2.5°	66.7	66.7	66.7	65.6	64.5	64.5	64.5	64.5	63.3	63.3	63.3
5°	70.1	70.1	69.0	67.8	67.8	66.7	67.8	66.7	66.7	66.7	67.8
7.5°	78.0	78.0	76.9	76.9	76.9	75.8	75.8	75.8	75.8	74.6	75.8
10°	87.1	87.1	87.1	87.1	87.1	85.9	85.9	84.8	84.8	84.8	84.8
12.5°	97.2	96.1	96.1	97.2	96.1	95.0	95.0	95.0	93.9	93.9	93.9
15°	106.3	106.3	105.2	105.2	105.2	104.0	104.0	102.9	102.9	101.8	101.8
17.5°	115.3	115.3	114.2	113.1	113.1	113.1	111.9	111.9	110.8	110.8	110.8
20°	126.6	125.5	124.4	123.3	122.1	122.1	122.1	122.1	121.0	119.9	119.9
22.5°	139.1	138.0	136.8	135.7	135.7	134.6	134.6	133.4	133.4	132.3	131.2
25°	165.1	165.1	160.6	159.4	159.4	160.6	159.4	158.3	156.1	152.7	152.7
27.5°	200.2	201.3	202.4	208.1	206.9	199.0	194.5	192.2	191.1	191.1	192.2
30°	239.7	240.9	244.3	249.9	246.5	236.3	225.0	220.5	223.9	228.4	229.6
32.5°	281.6	281.6	274.8	266.9	259.0	252.2	248.8	246.5	245.4	242.0	242.0
35°	314.4	308.7	287.2	261.2	253.3	257.8	271.4	275.9	259.0	243.1	240.9
37.5°	351.7	350.5	333.6	314.4	299.7	297.4	312.1	316.6	298.5	288.4	287.2
40°	391.3	393.5	396.9	389.0	366.4	359.6	351.7	346.0	346.0	347.2	344.9
42.5°	444.4	447.8	447.8	448.9	430.8	415.0	399.2	390.1	389.0	398.0	401.4
45°	515.6	515.6	507.7	491.9	484.0	472.7	462.5	453.5	448.9	450.1	453.5
47.5°	547.3	549.6	542.8	520.2	514.5	503.2	488.5	485.1	487.4	490.8	491.9
50°	658.1	652.5	606.1	558.6	541.7	553.0	574.4	580.1	558.6	537.1	531.5
52.5°	852.6	851.5	815.3	780.3	756.5	749.7	779.1	781.4	744.1	728.2	726.0
55°	1189.6	1177.2	1204.3	1221.3	1171.5	1116.1	1095.7	1067.5	1069.7	1101.4	1102.5
57.5°	1667.9	1674.7	1705.2	1661.1	1585.4	1544.7	1516.4	1463.3	1464.4	1492.7	1494.9
60°	2275.2	2274.0	2176.8	2007.2	1890.7	1898.6	1976.6	1987.9	1867.0	1788.9	1779.9
62.5°	2543.2	2530.7	2450.4	2244.6	2047.9	2044.5	2185.8	2203.9	2120.3	2016.2	1995.9
65°	2340.8	2330.6	2364.5	2294.4	2035.4	1968.7	2011.7	2007.2	2060.3	2107.8	2113.5
67.5°	2084.1	2086.3	2167.7	2146.3	1966.5	1853.4	1799.1	1792.3	1891.8	2002.6	2017.3
70°	1912.2	1912.2	1969.9	1882.8	1796.8	1723.3	1666.8	1631.7	1696.2	1714.3	1713.2
72.5°	1824.0	1816.1	1775.4	1691.7	1626.1	1561.6	1578.6	1552.6	1522.1	1474.6	1470.0
75°	1666.8	1657.8	1601.2	1561.6	1514.1	1433.9	1448.6	1422.5	1371.7	1328.7	1321.9
77.5°	1377.3	1377.3	1341.1	1311.7	1298.2	1229.2	1222.4	1210.0	1159.1	1135.3	1126.3
80°	986.1	983.8	969.1	958.9	975.9	935.2	917.1	917.1	896.7	875.2	865.1
82.5°	586.9	579.0	579.0	582.4	572.2	546.2	550.7	576.7	574.4	562.0	553.0
85°	347.2	342.6	339.2	334.7	325.7	307.6	307.6	309.8	312.1	313.2	308.7
87.5°	231.8	230.7	230.7	230.7	220.5	208.1	213.7	217.1	214.9	213.7	212.6
90°	202.4	203.5	202.4	197.9	188.8	177.5	179.8	184.3	182.1	182.1	180.9
92.5°	182.1	182.1	179.8	175.3	166.2	156.1	157.2	159.4	158.3	157.2	156.1
95°	149.3	149.3	147.0	143.6	135.7	126.6	127.8	130.0	127.8	127.8	126.6
97.5°	116.5	116.5	115.3	113.1	106.3	99.5	100.6	101.8	100.6	100.6	99.5
100°	88.2	88.2	87.1	83.7	80.3	74.6	75.8	78.0	76.9	76.9	75.8
102.5°	65.6	65.6	64.5	63.3	58.8	55.4	56.5	56.5	56.5	55.4	55.4
105°	50.9	50.9	50.9	48.6	46.4	43.0	43.0	43.0	43.0	41.8	41.8
107.5°	40.7	39.6	39.6	38.4	36.2	33.9	33.9	33.9	33.9	33.9	33.9
110°	32.8	31.7	30.5	30.5	28.3	27.1	26.0	27.1	27.1	27.1	27.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	28.3	27.1	24.9	24.9	23.7	21.5	21.5	21.5	23.7	22.6	22.6
115°	24.9	23.7	20.4	20.4	19.2	18.1	18.1	18.1	20.4	18.1	18.1
117.5°	21.5	20.4	17.0	17.0	15.8	14.7	14.7	14.7	17.0	14.7	14.7
120°	15.8	15.8	13.6	13.6	13.6	12.4	12.4	12.4	13.6	12.4	12.4
122.5°	12.4	12.4	11.3	11.3	11.3	10.2	10.2	10.2	10.2	9.0	9.0
125°	12.4	14.7	9.0	9.0	7.9	7.9	7.9	6.8	7.9	6.8	6.8
127.5°	13.6	12.4	6.8	6.8	6.8	5.7	5.7	5.7	5.7	5.7	5.7
130°	4.5	6.8	4.5	4.5	4.5	4.5	4.5	4.5	3.4	3.4	3.4
132.5°	3.4	3.4	3.4	3.4	3.4	3.4	2.3	2.3	2.3	2.3	2.3
135°	2.3	2.3	2.3	2.3	2.3	2.3	1.1	1.1	1.1	1.1	1.1
137.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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	1.1	1.1	1.1	1.1	1.1
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
170°	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
172.5°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
175°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
177.5°	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
180°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

(END OF REPORT)