

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: P588473

Luminaire Tested: **ARC-CA6-60-727-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588473
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-CA6-60-727-U-55-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR
Light Source: (6) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5785 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U3 - G2

Input Watts (W): 64.3
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



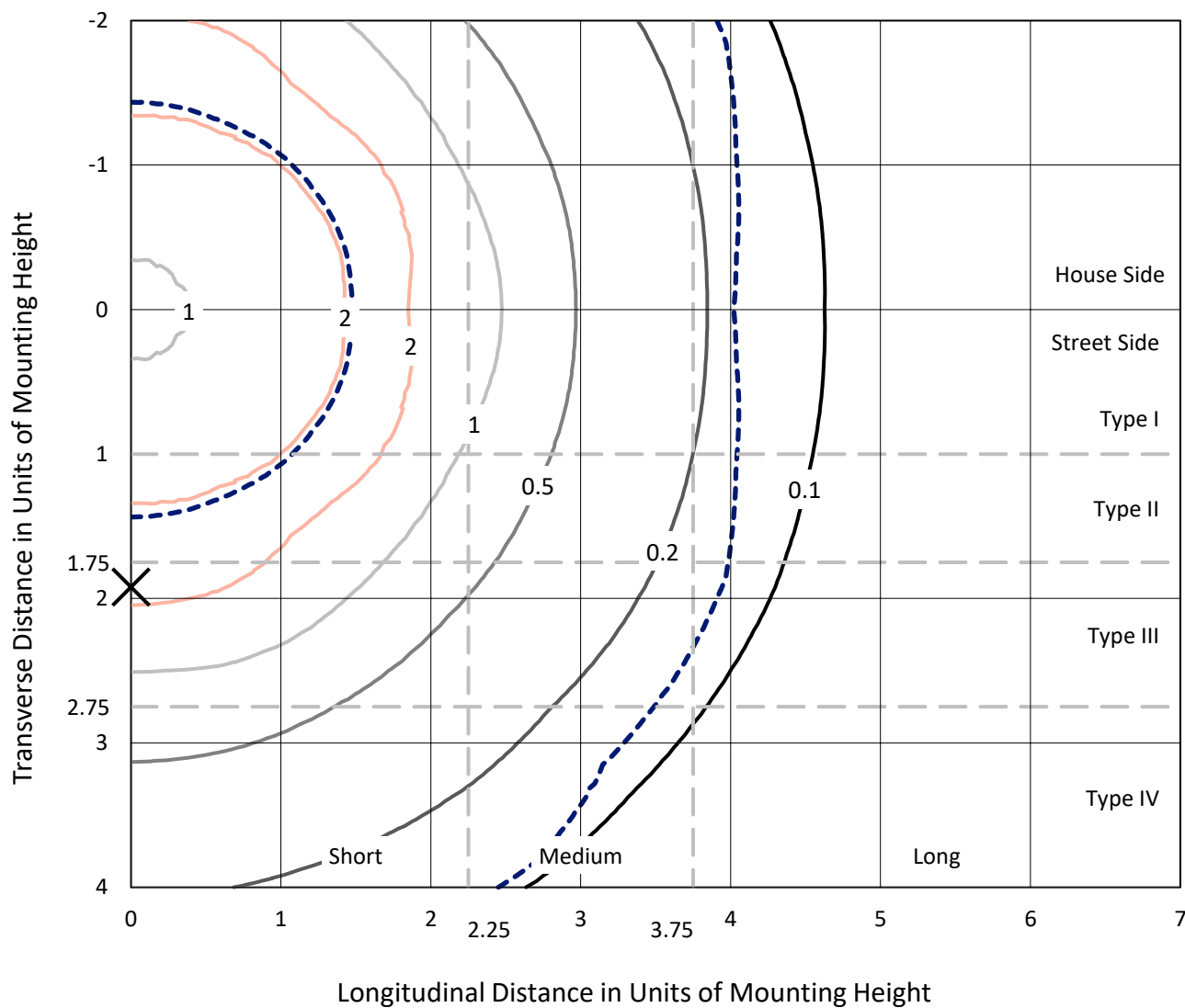
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

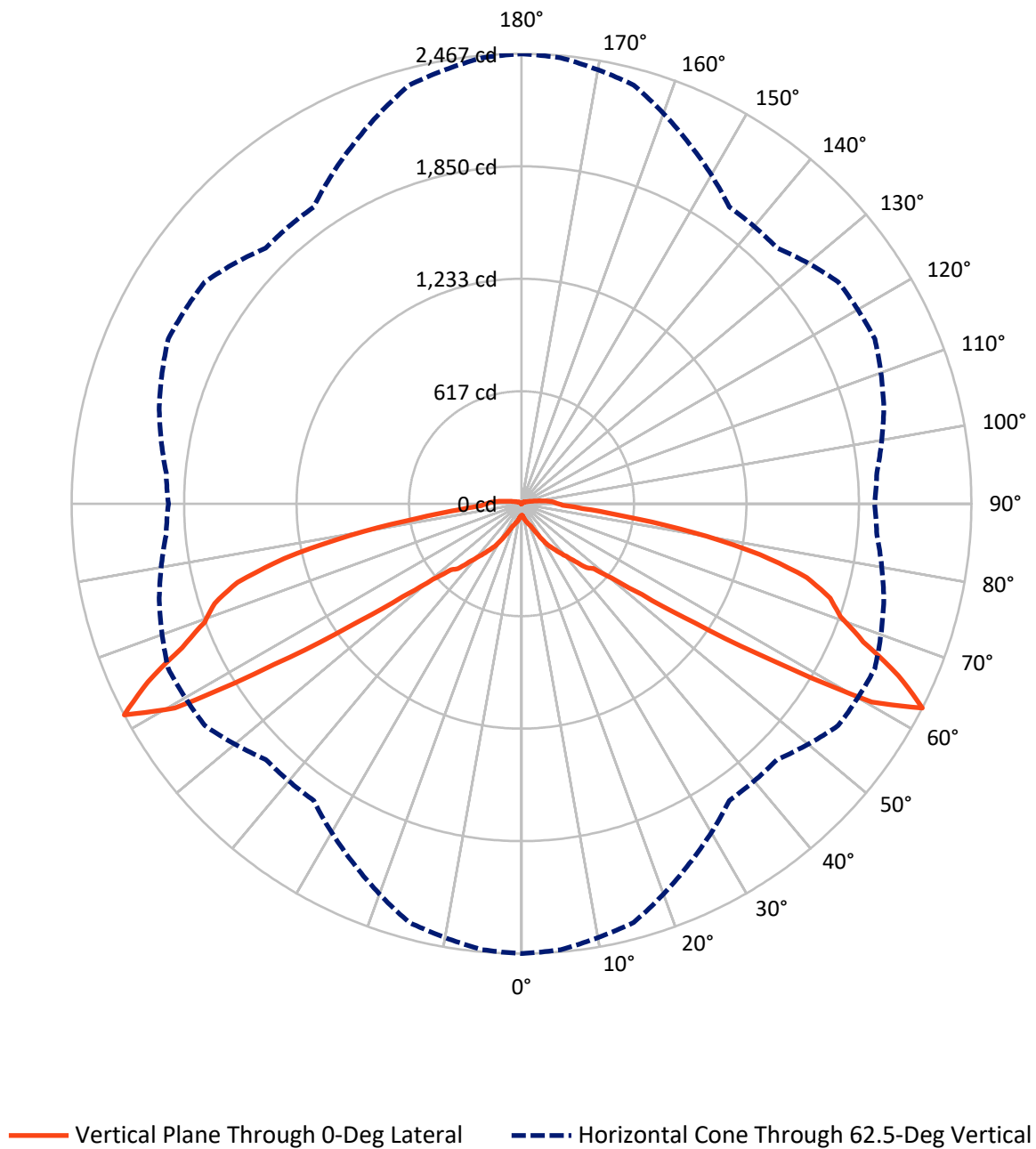


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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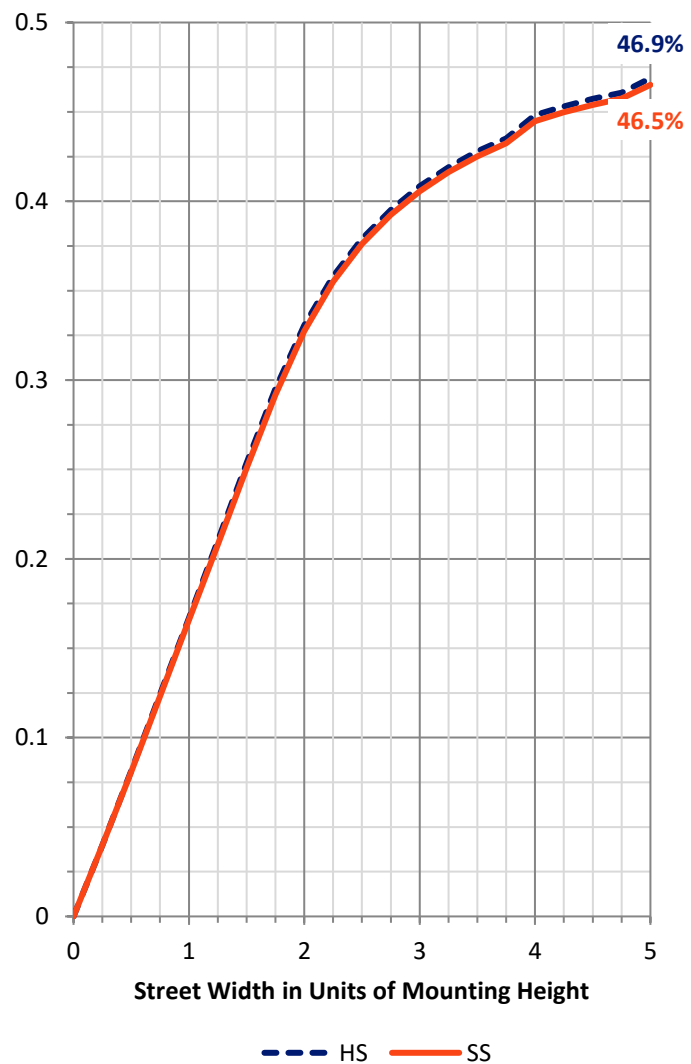
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2781.3	111.2	2892.5
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	2781.3	111.2	2892.5
	% Fixture	48.1	1.9	50.0
Total	Lumens	5562.7	222.3	5785.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.9	0.1
10°-20°	29.1	0.5
20°-30°	76.9	1.3
30°-40°	175.0	3.0
40°-50°	353.9	6.1
50°-60°	1047.7	18.1
60°-70°	1968.3	34.0
70°-80°	1463.1	25.3
80°-90°	441.7	7.6
90°-100°	143.3	2.5
100°-110°	50.2	0.9
110°-120°	19.4	0.3
120°-130°	7.7	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°	5562.7	96.2
0°-180°	5785.0	100.0

Coefficient of Utilization



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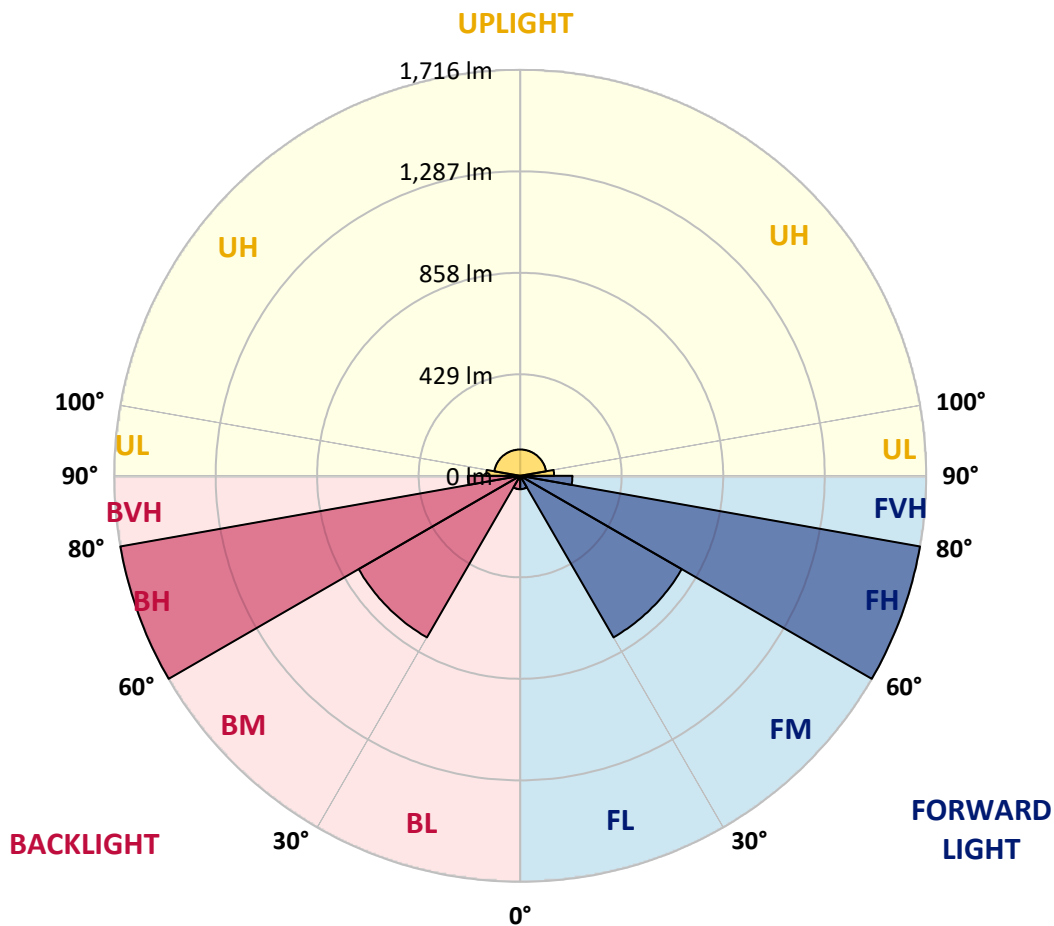
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	56.5	1.0			
FM	(30°-60°)	788.3	13.6			
FH	(60°-80°)	1715.7	29.7			G1/1800
FVH	(80°-90°)	220.8	3.8			G2/225
BL	(0°-30°)	56.5	1.0	B0/110		
BM	(30°-60°)	788.3	13.6	B1/1000		
BH	(60°-80°)	1715.7	29.7	B3/2500		G1/1800
BVH	(80°-90°)	220.8	3.8			G2/225
UL	(90°-100°)	143.3	2.5		U3/500	
UH	(100°-180°)	111.2	1.9		U3/500	

BUG Rating: B3-U3-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
2.5°	64.7	64.7	64.7	63.6	62.5	62.5	62.5	62.5	61.4	61.4	61.4
5°	68.0	68.0	66.9	65.8	65.8	64.7	65.8	64.7	64.7	64.7	65.8
7.5°	75.7	75.7	74.6	74.6	74.6	73.5	73.5	73.5	73.5	72.4	73.5
10°	84.5	84.5	84.5	84.5	84.5	83.4	83.4	82.3	82.3	82.3	82.3
12.5°	94.3	93.2	93.2	94.3	93.2	92.1	92.1	92.1	91.0	91.0	91.0
15°	103.1	103.1	102.0	102.0	102.0	100.9	100.9	99.8	99.8	98.7	98.7
17.5°	111.9	111.9	110.8	109.7	109.7	109.7	108.6	108.6	107.5	107.5	107.5
20°	122.8	121.8	120.7	119.6	118.5	118.5	118.5	118.5	117.4	116.3	116.3
22.5°	134.9	133.8	132.7	131.6	131.6	130.5	130.5	129.4	129.4	128.3	127.2
25°	160.1	160.1	155.8	154.7	154.7	155.8	154.7	153.6	151.4	148.1	148.1
27.5°	194.1	195.2	196.3	201.8	200.7	193.0	188.7	186.5	185.4	185.4	186.5
30°	232.5	233.6	236.9	242.4	239.1	229.2	218.3	213.9	217.2	221.6	222.7
32.5°	273.1	273.1	266.5	258.9	251.2	244.6	241.3	239.1	238.0	234.7	234.7
35°	304.9	299.4	278.6	253.4	245.7	250.1	263.2	267.6	251.2	235.8	233.6
37.5°	341.1	340.0	323.6	304.9	290.7	288.5	302.7	307.1	289.6	279.7	278.6
40°	379.5	381.7	385.0	377.3	355.4	348.8	341.1	335.6	335.6	336.7	334.5
42.5°	431.1	434.4	434.4	435.5	417.9	402.5	387.2	378.4	377.3	386.1	389.4
45°	500.2	500.2	492.5	477.1	469.5	458.5	448.6	439.8	435.5	436.6	439.8
47.5°	530.9	533.1	526.5	504.6	499.1	488.1	473.8	470.6	472.7	476.0	477.1
50°	638.4	632.9	587.9	541.8	525.4	536.4	557.2	562.7	541.8	521.0	515.5
52.5°	827.0	825.9	790.8	756.8	733.8	727.2	755.7	757.9	721.7	706.4	704.2
55°	1153.9	1141.8	1168.2	1184.6	1136.3	1082.6	1062.9	1035.4	1037.6	1068.3	1069.4
57.5°	1617.9	1624.5	1654.1	1611.3	1537.8	1498.3	1470.9	1419.3	1420.4	1447.9	1450.1
60°	2206.9	2205.8	2111.5	1946.9	1834.0	1841.6	1917.3	1928.3	1810.9	1735.2	1726.5
62.5°	2466.8	2454.8	2376.9	2177.3	1986.4	1983.1	2120.2	2137.8	2056.6	1955.7	1936.0
65°	2270.5	2260.6	2293.5	2225.5	1974.4	1909.6	1951.3	1946.9	1998.5	2044.6	2050.0
67.5°	2021.5	2023.7	2102.7	2081.8	1907.4	1797.8	1745.1	1738.5	1835.0	1942.5	1956.8
70°	1854.8	1854.8	1910.7	1826.3	1742.9	1671.6	1616.8	1582.8	1645.3	1662.8	1661.7
72.5°	1769.2	1761.6	1722.1	1640.9	1577.3	1514.8	1531.2	1506.0	1476.4	1430.3	1425.9
75°	1616.8	1608.0	1553.2	1514.8	1468.7	1390.8	1405.1	1379.9	1330.5	1288.8	1282.2
77.5°	1336.0	1336.0	1300.9	1272.4	1259.2	1192.3	1185.7	1173.6	1124.3	1101.2	1092.5
80°	956.5	954.3	940.0	930.1	946.6	907.1	889.6	889.6	869.8	849.0	839.1
82.5°	569.3	561.6	561.6	564.9	555.0	529.8	534.2	559.4	557.2	545.1	536.4
85°	336.7	332.3	329.1	324.7	315.9	298.3	298.3	300.5	302.7	303.8	299.4
87.5°	224.9	223.8	223.8	223.8	213.9	201.8	207.3	210.6	208.4	207.3	206.2
90°	196.3	197.4	196.3	192.0	183.2	172.2	174.4	178.8	176.6	176.6	175.5
92.5°	176.6	176.6	174.4	170.0	161.2	151.4	152.5	154.7	153.6	152.5	151.4
95°	144.8	144.8	142.6	139.3	131.6	122.8	123.9	126.1	123.9	123.9	122.8
97.5°	113.0	113.0	111.9	109.7	103.1	96.5	97.6	98.7	97.6	97.6	96.5
100°	85.6	85.6	84.5	81.2	77.9	72.4	73.5	75.7	74.6	74.6	73.5
102.5°	63.6	63.6	62.5	61.4	57.0	53.7	54.8	54.8	54.8	53.7	53.7
105°	49.4	49.4	49.4	47.2	45.0	41.7	41.7	41.7	41.7	40.6	40.6
107.5°	39.5	38.4	38.4	37.3	35.1	32.9	32.9	32.9	32.9	32.9	32.9
110°	31.8	30.7	29.6	29.6	27.4	26.3	25.2	26.3	26.3	26.3	26.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	27.4	26.3	24.1	24.1	23.0	20.8	20.8	20.8	23.0	21.9	21.9
115°	24.1	23.0	19.7	19.7	18.6	17.5	17.5	17.5	19.7	17.5	17.5
117.5°	20.8	19.7	16.5	16.5	15.4	14.3	14.3	14.3	16.5	14.3	14.3
120°	15.4	15.4	13.2	13.2	13.2	12.1	12.1	12.1	13.2	12.1	12.1
122.5°	12.1	12.1	11.0	11.0	11.0	9.9	9.9	9.9	9.9	8.8	8.8
125°	12.1	14.3	8.8	8.8	7.7	7.7	7.7	6.6	7.7	6.6	6.6
127.5°	13.2	12.1	6.6	6.6	6.6	5.5	5.5	5.5	5.5	5.5	5.5
130°	4.4	6.6	4.4	4.4	4.4	4.4	4.4	4.4	3.3	3.3	3.3
132.5°	3.3	3.3	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2	2.2
135°	2.2	2.2	2.2	2.2	2.2	2.2	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)