

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: P588453

Luminaire Tested: **ARC-CA6-50-730-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588453
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-CA6-50-730-U-55-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR
Light Source: (6) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5153 lumens
Efficiency: N/A
Efficacy: 95.4 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): 54
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



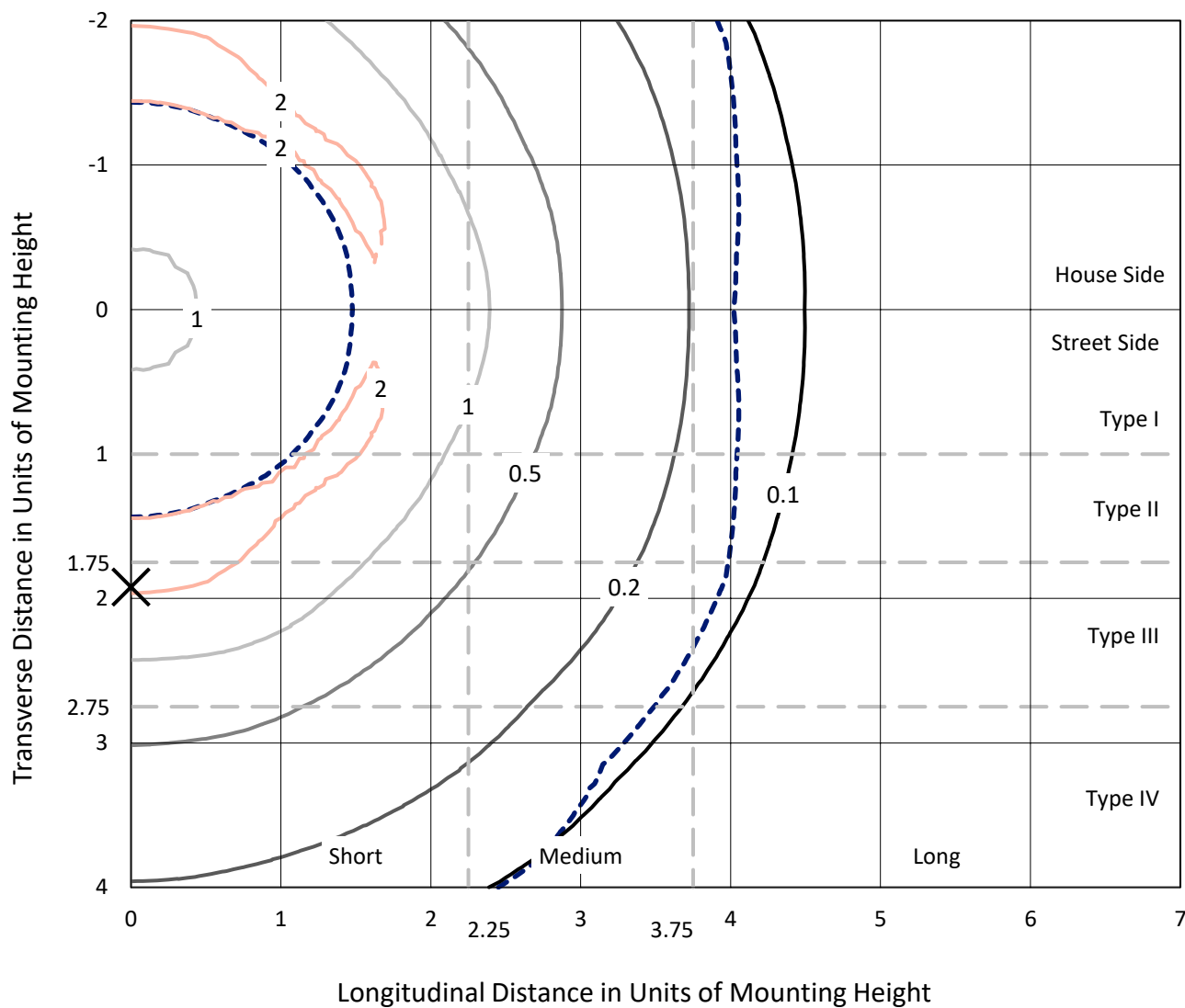
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

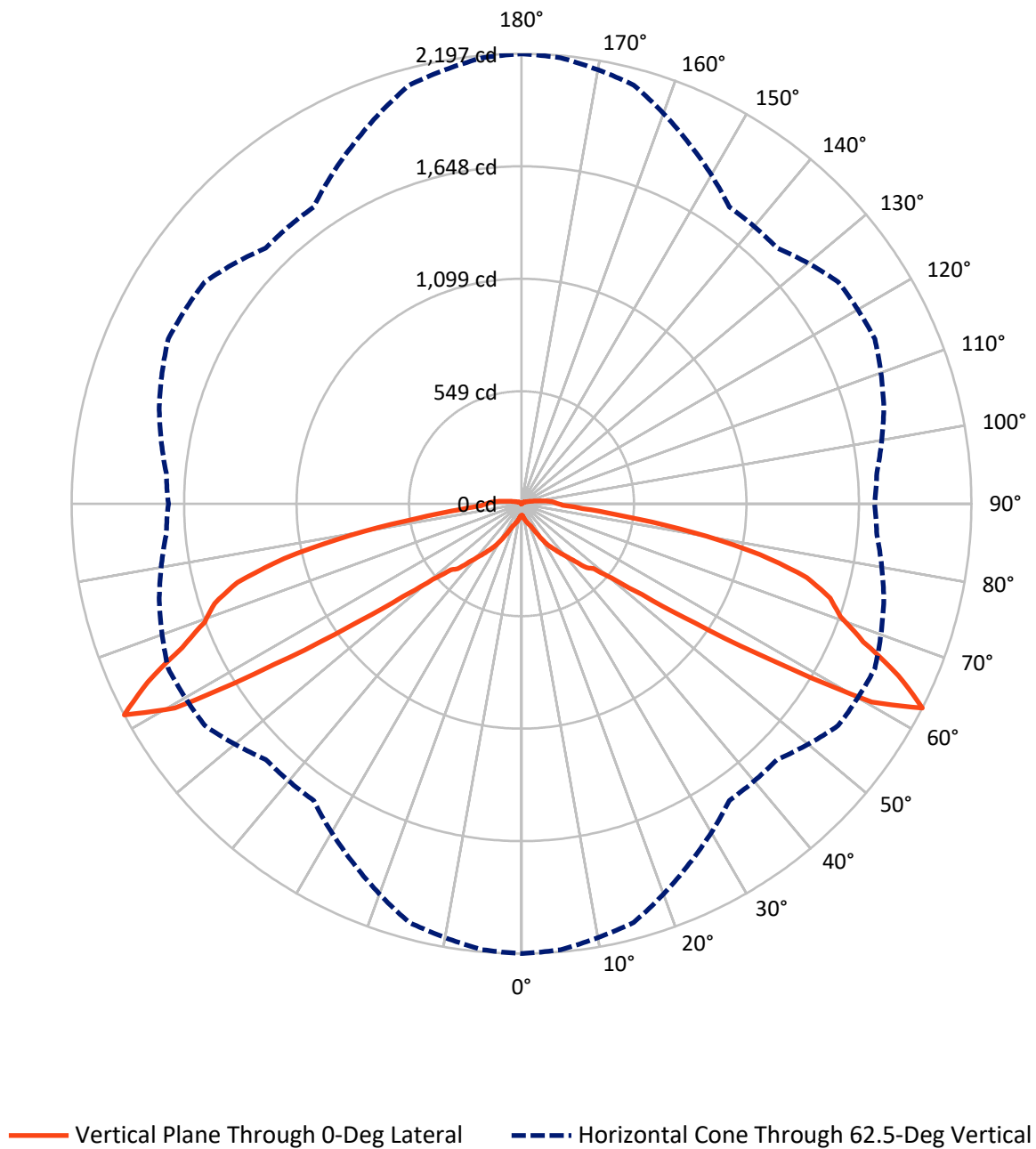


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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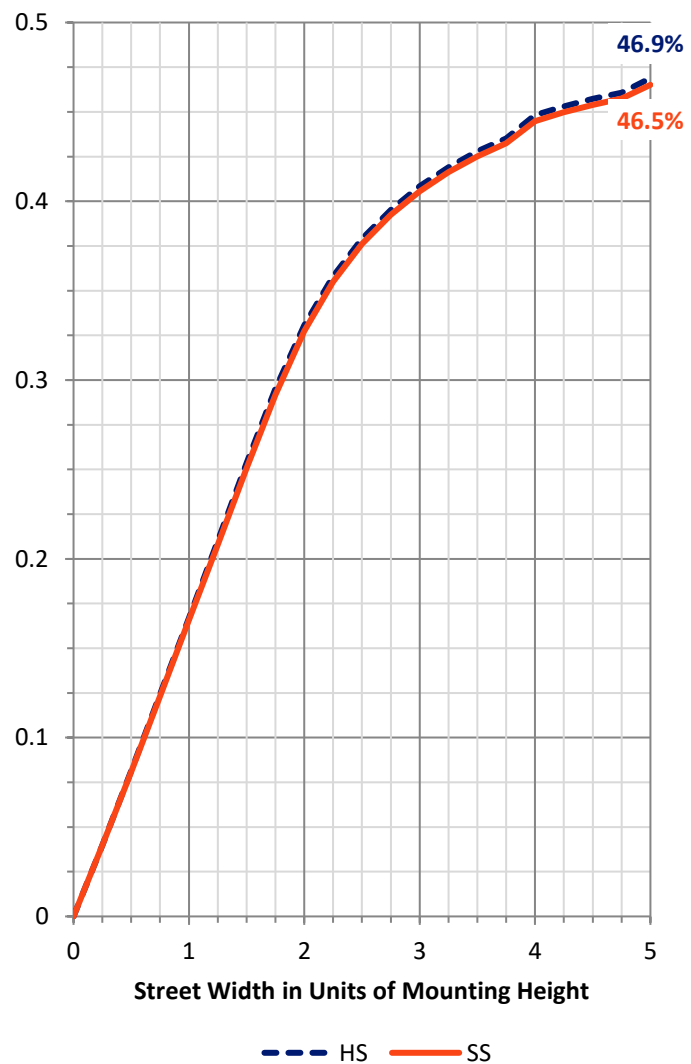
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2477.5	99.0	2576.5
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	2477.5	99.0	2576.5
	% Fixture	48.1	1.9	50.0
Total	Lumens	4955.0	198.1	5153.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.1	0.1
10°-20°	26.0	0.5
20°-30°	68.5	1.3
30°-40°	155.9	3.0
40°-50°	315.3	6.1
50°-60°	933.3	18.1
60°-70°	1753.3	34.0
70°-80°	1303.2	25.3
80°-90°	393.4	7.6
90°-100°	127.7	2.5
100°-110°	44.7	0.9
110°-120°	17.3	0.3
120°-130°	6.8	0.1
130°-140°	1.4	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°	4955.0	96.2
0°-180°	5153.0	100.0

Coefficient of Utilization



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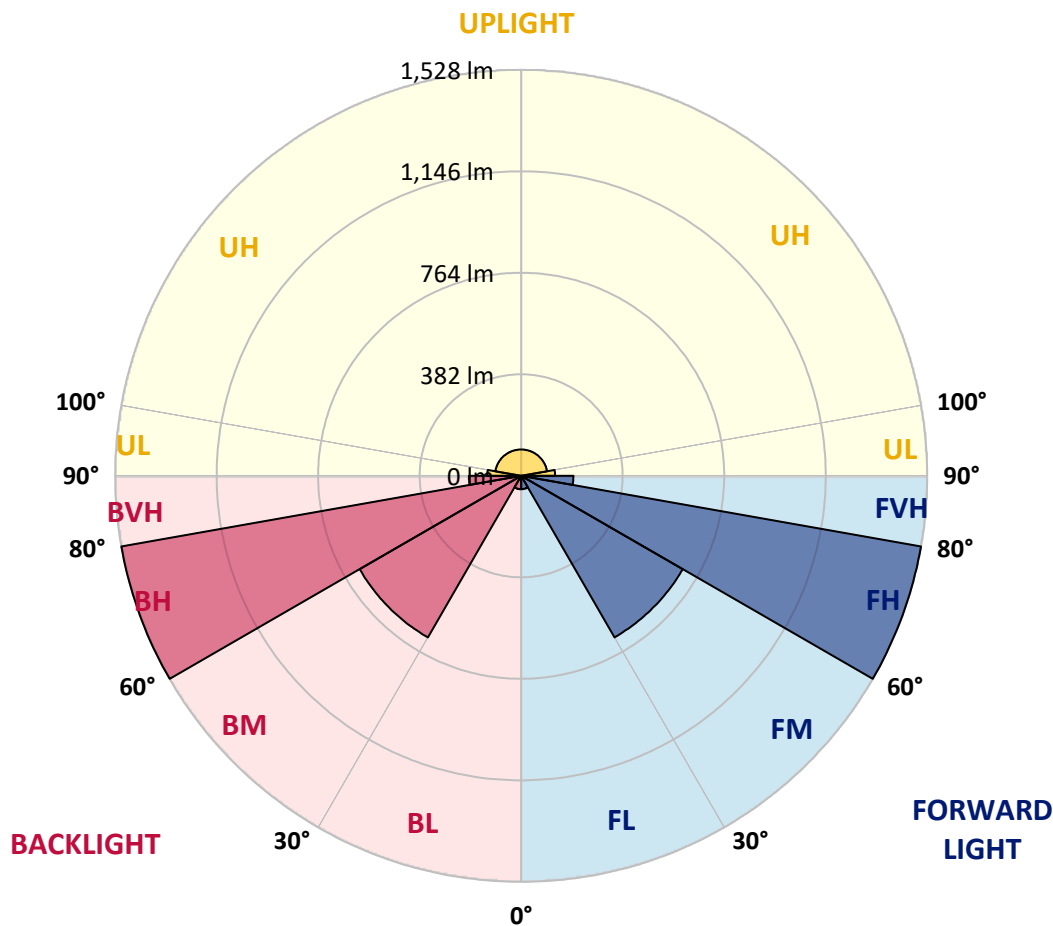
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	50.3	1.0			
FM	(30°-60°)	702.2	13.6			
FH	(60°-80°)	1528.3	29.7			G1/1800
FVH	(80°-90°)	196.7	3.8			G2/225
BL	(0°-30°)	50.3	1.0	B0/110		
BM	(30°-60°)	702.2	13.6	B1/1000		
BH	(60°-80°)	1528.3	29.7	B3/2500		G1/1800
BVH	(80°-90°)	196.7	3.8			G2/225
UL	(90°-100°)	127.7	2.5		U3/500	
UH	(100°-180°)	99.0	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°	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
2.5°	57.6	57.6	57.6	56.7	55.7	55.7	55.7	55.7	54.7	54.7	54.7
5°	60.6	60.6	59.6	58.6	58.6	57.6	58.6	57.6	57.6	57.6	58.6
7.5°	67.4	67.4	66.4	66.4	66.4	65.5	65.5	65.5	65.5	64.5	65.5
10°	75.2	75.2	75.2	75.2	75.2	74.3	74.3	73.3	73.3	73.3	73.3
12.5°	84.0	83.0	83.0	84.0	83.0	82.1	82.1	82.1	81.1	81.1	81.1
15°	91.8	91.8	90.9	90.9	90.9	89.9	89.9	88.9	88.9	87.9	87.9
17.5°	99.7	99.7	98.7	97.7	97.7	97.7	96.7	96.7	95.7	95.7	95.7
20°	109.4	108.5	107.5	106.5	105.5	105.5	105.5	105.5	104.5	103.6	103.6
22.5°	120.2	119.2	118.2	117.2	117.2	116.3	116.3	115.3	115.3	114.3	113.3
25°	142.6	142.6	138.7	137.8	137.8	138.7	137.8	136.8	134.8	131.9	131.9
27.5°	172.9	173.9	174.9	179.8	178.8	172.0	168.0	166.1	165.1	165.1	166.1
30°	207.1	208.1	211.0	215.9	213.0	204.2	194.4	190.5	193.5	197.4	198.3
32.5°	243.3	243.3	237.4	230.6	223.7	217.9	214.9	213.0	212.0	209.1	209.1
35°	271.6	266.7	248.2	225.7	218.9	222.8	234.5	238.4	223.7	210.1	208.1
37.5°	303.9	302.9	288.2	271.6	258.9	257.0	269.7	273.6	257.9	249.1	248.2
40°	338.1	340.0	342.9	336.1	316.6	310.7	303.9	299.0	299.0	299.9	298.0
42.5°	384.0	386.9	386.9	387.9	372.2	358.6	344.9	337.1	336.1	343.9	346.8
45°	445.5	445.5	438.7	425.0	418.2	408.4	399.6	391.8	387.9	388.9	391.8
47.5°	472.9	474.8	469.0	449.4	444.5	434.8	422.1	419.1	421.1	424.0	425.0
50°	568.6	563.7	523.7	482.7	468.0	477.8	496.3	501.2	482.7	464.1	459.2
52.5°	736.7	735.7	704.4	674.2	653.6	647.8	673.2	675.1	642.9	629.2	627.3
55°	1027.8	1017.1	1040.5	1055.2	1012.2	964.3	946.7	922.3	924.3	951.6	952.6
57.5°	1441.1	1447.0	1473.4	1435.3	1369.8	1334.6	1310.2	1264.3	1265.3	1289.7	1291.6
60°	1965.8	1964.8	1880.8	1734.2	1633.6	1640.4	1707.9	1717.6	1613.1	1545.7	1537.8
62.5°	2197.3	2186.6	2117.2	1939.4	1769.4	1766.5	1888.6	1904.2	1831.9	1742.0	1724.5
65°	2022.5	2013.7	2043.0	1982.4	1758.7	1701.0	1738.1	1734.2	1780.2	1821.2	1826.1
67.5°	1800.7	1802.6	1873.0	1854.4	1699.1	1601.4	1554.5	1548.6	1634.6	1730.3	1743.0
70°	1652.2	1652.2	1702.0	1626.8	1552.5	1489.0	1440.1	1409.9	1465.5	1481.2	1480.2
72.5°	1576.0	1569.1	1533.9	1461.6	1405.0	1349.3	1363.9	1341.5	1315.1	1274.0	1270.1
75°	1440.1	1432.3	1383.5	1349.3	1308.2	1238.9	1251.6	1229.1	1185.1	1148.0	1142.1
77.5°	1190.0	1190.0	1158.8	1133.4	1121.6	1062.0	1056.2	1045.4	1001.5	980.9	973.1
80°	852.0	850.0	837.3	828.5	843.2	808.0	792.4	792.4	774.8	756.2	747.4
82.5°	507.1	500.2	500.2	503.2	494.4	471.9	475.8	498.3	496.3	485.6	477.8
85°	299.9	296.0	293.1	289.2	281.4	265.8	265.8	267.7	269.7	270.6	266.7
87.5°	200.3	199.3	199.3	199.3	190.5	179.8	184.7	187.6	185.6	184.7	183.7
90°	174.9	175.9	174.9	171.0	163.2	153.4	155.3	159.3	157.3	157.3	156.3
92.5°	157.3	157.3	155.3	151.4	143.6	134.8	135.8	137.8	136.8	135.8	134.8
95°	129.0	129.0	127.0	124.1	117.2	109.4	110.4	112.4	110.4	110.4	109.4
97.5°	100.6	100.6	99.7	97.7	91.8	86.0	87.0	87.9	87.0	87.0	86.0
100°	76.2	76.2	75.2	72.3	69.4	64.5	65.5	67.4	66.4	66.4	65.5
102.5°	56.7	56.7	55.7	54.7	50.8	47.9	48.9	48.9	48.9	47.9	47.9
105°	44.0	44.0	44.0	42.0	40.1	37.1	37.1	37.1	37.1	36.2	36.2
107.5°	35.2	34.2	34.2	33.2	31.3	29.3	29.3	29.3	29.3	29.3	29.3
110°	28.3	27.4	26.4	26.4	24.4	23.4	22.5	23.4	23.4	23.4	23.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	24.4	23.4	21.5	21.5	20.5	18.6	18.6	18.6	20.5	19.5	19.5
115°	21.5	20.5	17.6	17.6	16.6	15.6	15.6	15.6	17.6	15.6	15.6
117.5°	18.6	17.6	14.7	14.7	13.7	12.7	12.7	12.7	14.7	12.7	12.7
120°	13.7	13.7	11.7	11.7	11.7	10.7	10.7	10.7	11.7	10.7	10.7
122.5°	10.7	10.7	9.8	9.8	9.8	8.8	8.8	8.8	8.8	7.8	7.8
125°	10.7	12.7	7.8	7.8	6.8	6.8	6.8	5.9	6.8	5.9	5.9
127.5°	11.7	10.7	5.9	5.9	5.9	4.9	4.9	4.9	4.9	4.9	4.9
130°	3.9	5.9	3.9	3.9	3.9	3.9	3.9	3.9	2.9	2.9	2.9
132.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.0	2.0	2.0	2.0	2.0
135°	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
137.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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	1.0	1.0	1.0	1.0	1.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0
170°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0
172.5°	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
175°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
177.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

(END OF REPORT)