

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: P588457

Luminaire Tested: **ARC-CA6-50-740-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588457
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-CA6-50-740-U-55-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR
Light Source: (6) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5274.1 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U3 - 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



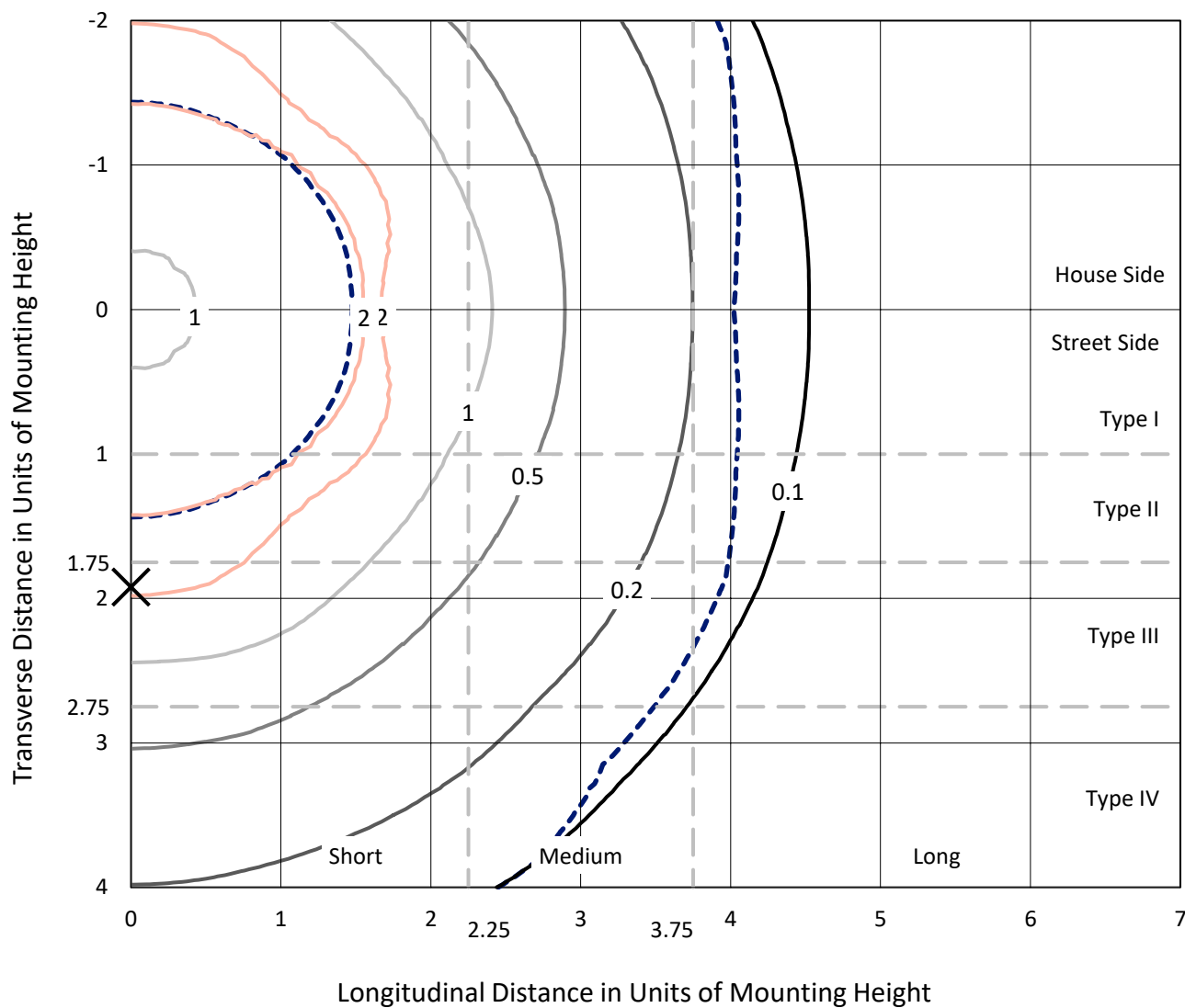
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

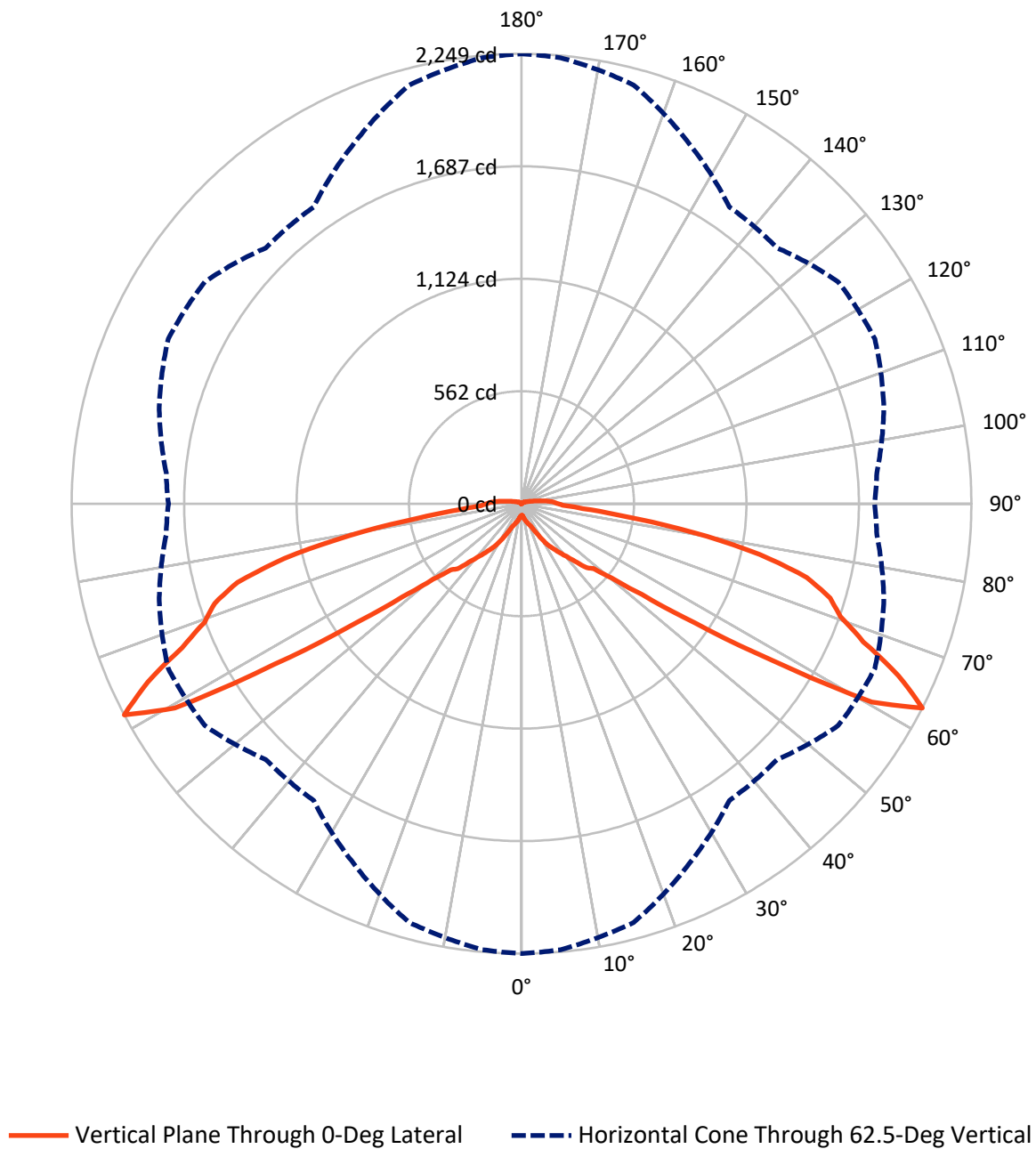


Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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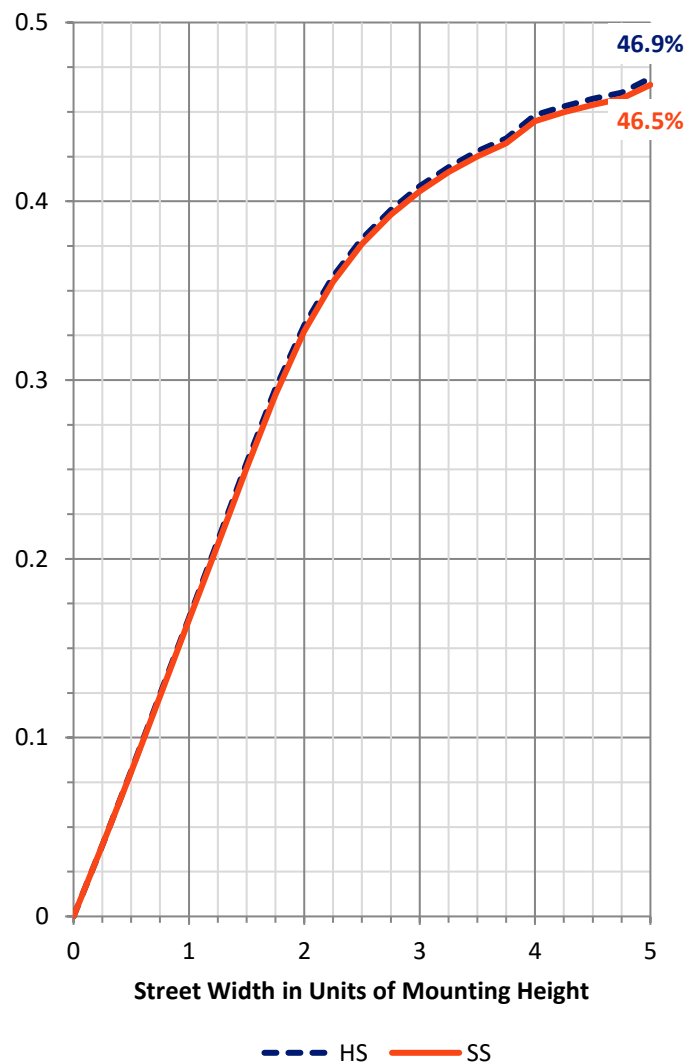
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2535.7	101.3	2637.1
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	2535.7	101.3	2637.1
	% Fixture	48.1	1.9	50.0
Total	Lumens	5071.4	202.7	5274.1
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	0.1
10°-20°	26.6	0.5
20°-30°	70.1	1.3
30°-40°	159.5	3.0
40°-50°	322.7	6.1
50°-60°	955.2	18.1
60°-70°	1794.5	34.0
70°-80°	1333.9	25.3
80°-90°	402.7	7.6
90°-100°	130.7	2.5
100°-110°	45.8	0.9
110°-120°	17.7	0.3
120°-130°	7.0	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°	5071.4	96.2
0°-180°	5274.1	100.0

Coefficient of Utilization



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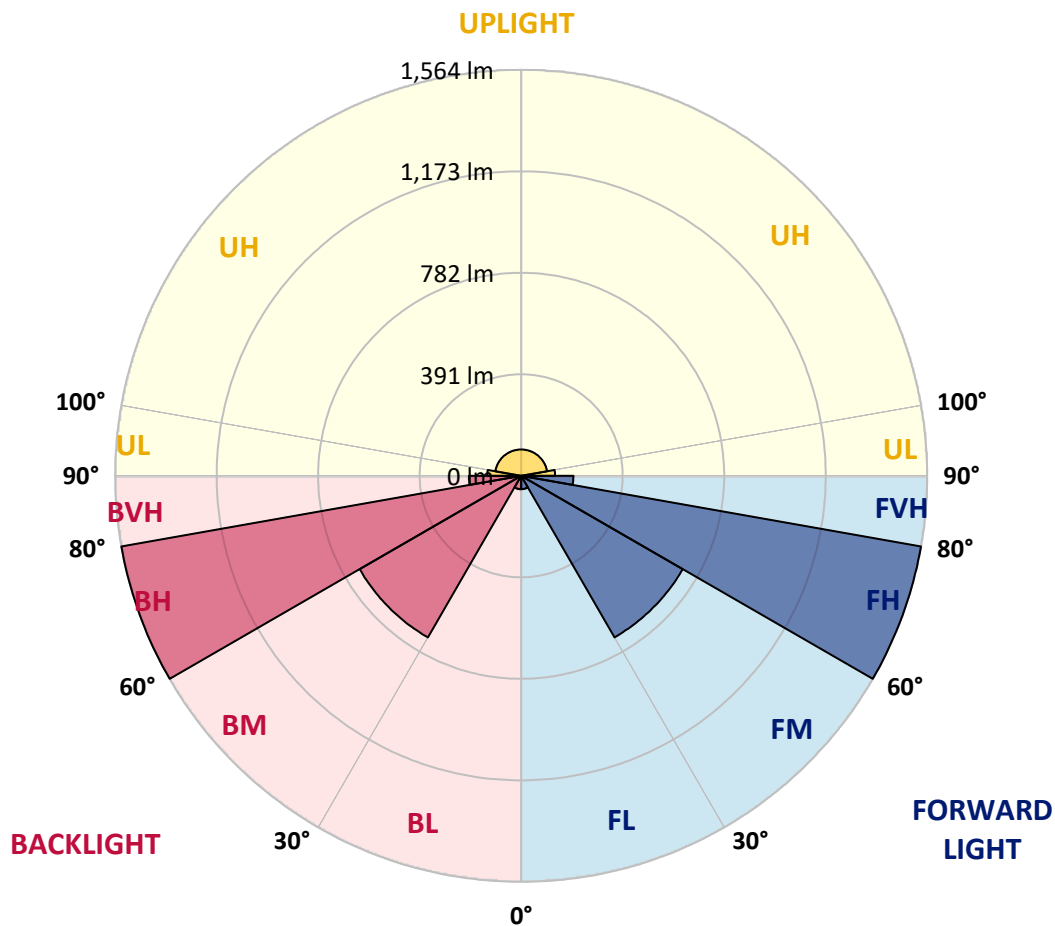
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	51.5	1.0			
FM	(30°-60°)	718.7	13.6			
FH	(60°-80°)	1564.2	29.7			G1/1800
FVH	(80°-90°)	201.3	3.8			G2/225
BL	(0°-30°)	51.5	1.0	B0/110		
BM	(30°-60°)	718.7	13.6	B1/1000		
BH	(60°-80°)	1564.2	29.7	B3/2500		G1/1800
BVH	(80°-90°)	201.3	3.8			G2/225
UL	(90°-100°)	130.7	2.5		U3/500	
UH	(100°-180°)	101.3	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°	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
2.5°	59.0	59.0	59.0	58.0	57.0	57.0	57.0	57.0	56.0	56.0	56.0
5°	62.0	62.0	61.0	60.0	60.0	59.0	60.0	59.0	59.0	59.0	60.0
7.5°	69.0	69.0	68.0	68.0	68.0	67.0	67.0	67.0	67.0	66.0	67.0
10°	77.0	77.0	77.0	77.0	77.0	76.0	76.0	75.0	75.0	75.0	75.0
12.5°	86.0	85.0	85.0	86.0	85.0	84.0	84.0	84.0	83.0	83.0	83.0
15°	94.0	94.0	93.0	93.0	93.0	92.0	92.0	91.0	91.0	90.0	90.0
17.5°	102.0	102.0	101.0	100.0	100.0	100.0	99.0	99.0	98.0	98.0	98.0
20°	112.0	111.0	110.0	109.0	108.0	108.0	108.0	108.0	107.0	106.0	106.0
22.5°	123.0	122.0	121.0	120.0	120.0	119.0	119.0	118.0	118.0	117.0	116.0
25°	146.0	146.0	142.0	141.0	141.0	142.0	141.0	140.0	138.0	135.0	135.0
27.5°	177.0	178.0	179.0	184.0	183.0	176.0	172.0	170.0	169.0	169.0	170.0
30°	212.0	213.0	216.0	221.0	218.0	209.0	199.0	195.0	198.0	202.0	203.0
32.5°	249.0	249.0	243.0	236.0	229.0	223.0	220.0	218.0	217.0	214.0	214.0
35°	278.0	273.0	254.0	231.0	224.0	228.0	240.0	244.0	229.0	215.0	213.0
37.5°	311.0	310.0	295.0	278.0	265.0	263.0	276.0	280.0	264.0	255.0	254.0
40°	346.0	348.0	351.0	344.0	324.0	318.0	311.0	306.0	306.0	307.0	305.0
42.5°	393.0	396.0	396.0	397.0	381.0	367.0	353.0	345.0	344.0	352.0	355.0
45°	456.0	456.0	449.0	435.0	428.0	418.0	409.0	401.0	397.0	398.0	401.0
47.5°	484.0	486.0	480.0	460.0	455.0	445.0	432.0	429.0	431.0	434.0	435.0
50°	582.0	577.0	536.0	494.0	479.0	489.0	508.0	513.0	494.0	475.0	470.0
52.5°	754.0	753.0	721.0	690.0	669.0	663.0	689.0	691.0	658.0	644.0	642.0
55°	1052.0	1041.0	1065.0	1080.0	1036.0	987.0	969.0	944.0	946.0	974.0	975.0
57.5°	1475.0	1481.0	1508.0	1469.0	1402.0	1366.0	1341.0	1294.0	1295.0	1320.0	1322.0
60°	2011.9	2010.9	1924.9	1775.0	1672.0	1679.0	1748.0	1758.0	1651.0	1582.0	1574.0
62.5°	2248.9	2237.9	2166.9	1984.9	1811.0	1808.0	1932.9	1948.9	1875.0	1783.0	1765.0
65°	2069.9	2060.9	2090.9	2028.9	1800.0	1741.0	1779.0	1775.0	1822.0	1864.0	1869.0
67.5°	1843.0	1845.0	1916.9	1898.0	1739.0	1639.0	1591.0	1585.0	1673.0	1771.0	1784.0
70°	1691.0	1691.0	1742.0	1665.0	1589.0	1524.0	1474.0	1443.0	1500.0	1516.0	1515.0
72.5°	1613.0	1606.0	1570.0	1496.0	1438.0	1381.0	1396.0	1373.0	1346.0	1304.0	1300.0
75°	1474.0	1466.0	1416.0	1381.0	1339.0	1268.0	1281.0	1258.0	1213.0	1175.0	1169.0
77.5°	1218.0	1218.0	1186.0	1160.0	1148.0	1087.0	1081.0	1070.0	1025.0	1004.0	996.0
80°	872.0	870.0	857.0	848.0	863.0	827.0	811.0	811.0	793.0	774.0	765.0
82.5°	519.0	512.0	512.0	515.0	506.0	483.0	487.0	510.0	508.0	497.0	489.0
85°	307.0	303.0	300.0	296.0	288.0	272.0	272.0	274.0	276.0	277.0	273.0
87.5°	205.0	204.0	204.0	204.0	195.0	184.0	189.0	192.0	190.0	189.0	188.0
90°	179.0	180.0	179.0	175.0	167.0	157.0	159.0	163.0	161.0	161.0	160.0
92.5°	161.0	161.0	159.0	155.0	147.0	138.0	139.0	141.0	140.0	139.0	138.0
95°	132.0	132.0	130.0	127.0	120.0	112.0	113.0	115.0	113.0	113.0	112.0
97.5°	103.0	103.0	102.0	100.0	94.0	88.0	89.0	90.0	89.0	89.0	88.0
100°	78.0	78.0	77.0	74.0	71.0	66.0	67.0	69.0	68.0	68.0	67.0
102.5°	58.0	58.0	57.0	56.0	52.0	49.0	50.0	50.0	50.0	49.0	49.0
105°	45.0	45.0	45.0	43.0	41.0	38.0	38.0	38.0	38.0	37.0	37.0
107.5°	36.0	35.0	35.0	34.0	32.0	30.0	30.0	30.0	30.0	30.0	30.0
110°	29.0	28.0	27.0	27.0	25.0	24.0	23.0	24.0	24.0	24.0	24.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	25.0	24.0	22.0	22.0	21.0	19.0	19.0	19.0	21.0	20.0	20.0
115°	22.0	21.0	18.0	18.0	17.0	16.0	16.0	16.0	18.0	16.0	16.0
117.5°	19.0	18.0	15.0	15.0	14.0	13.0	13.0	13.0	15.0	13.0	13.0
120°	14.0	14.0	12.0	12.0	12.0	11.0	11.0	11.0	12.0	11.0	11.0
122.5°	11.0	11.0	10.0	10.0	10.0	9.0	9.0	9.0	9.0	8.0	8.0
125°	11.0	13.0	8.0	8.0	7.0	7.0	7.0	6.0	7.0	6.0	6.0
127.5°	12.0	11.0	6.0	6.0	6.0	5.0	5.0	5.0	5.0	5.0	5.0
130°	4.0	6.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	3.0	3.0
132.5°	3.0	3.0	3.0	3.0	3.0	3.0	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)