

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: P588449

Luminaire Tested: **ARC-CA6-50-727-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588449
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-CA6-50-727-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: 4931 lumens
Efficiency: N/A
Efficacy: 91.3 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

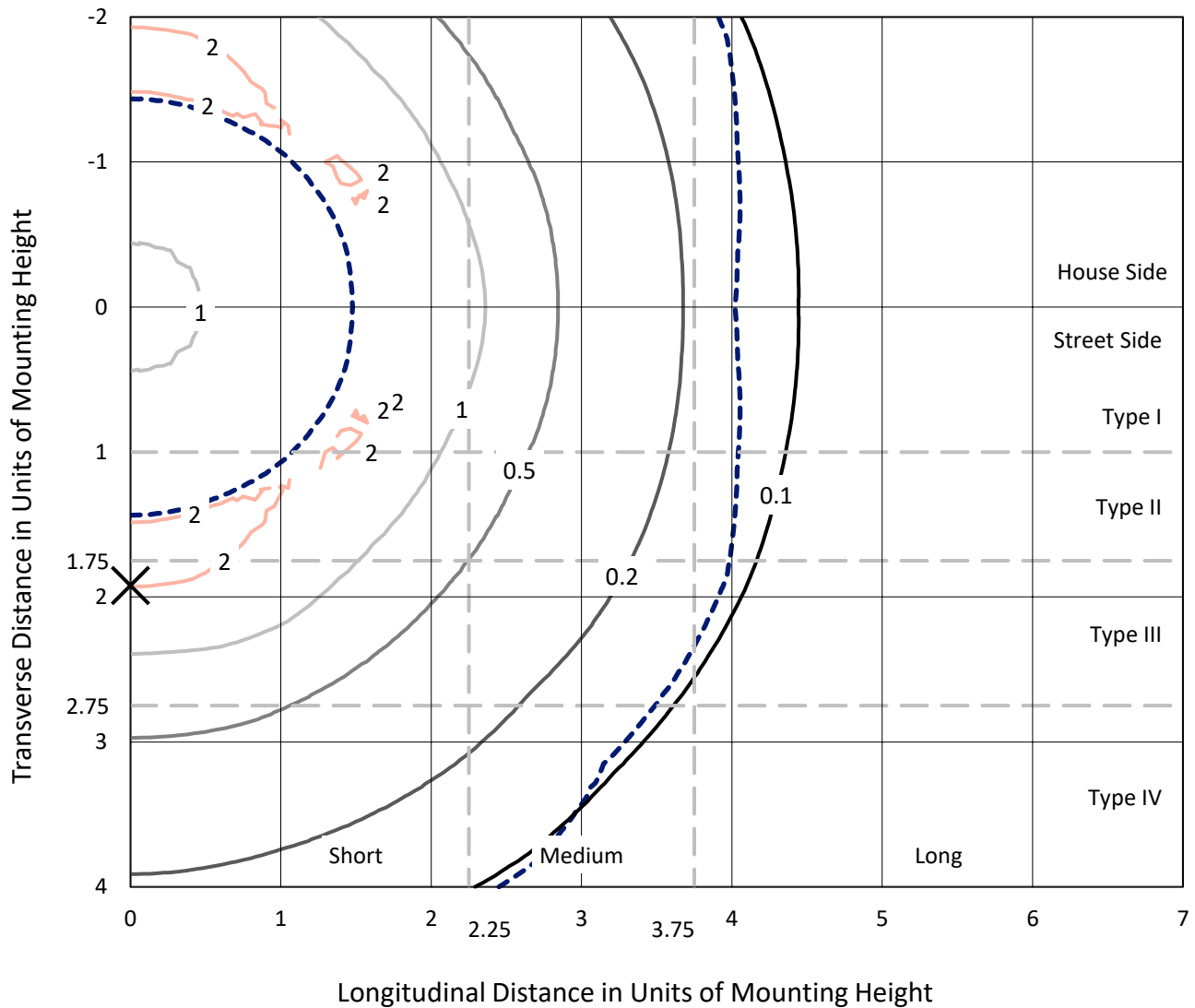


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

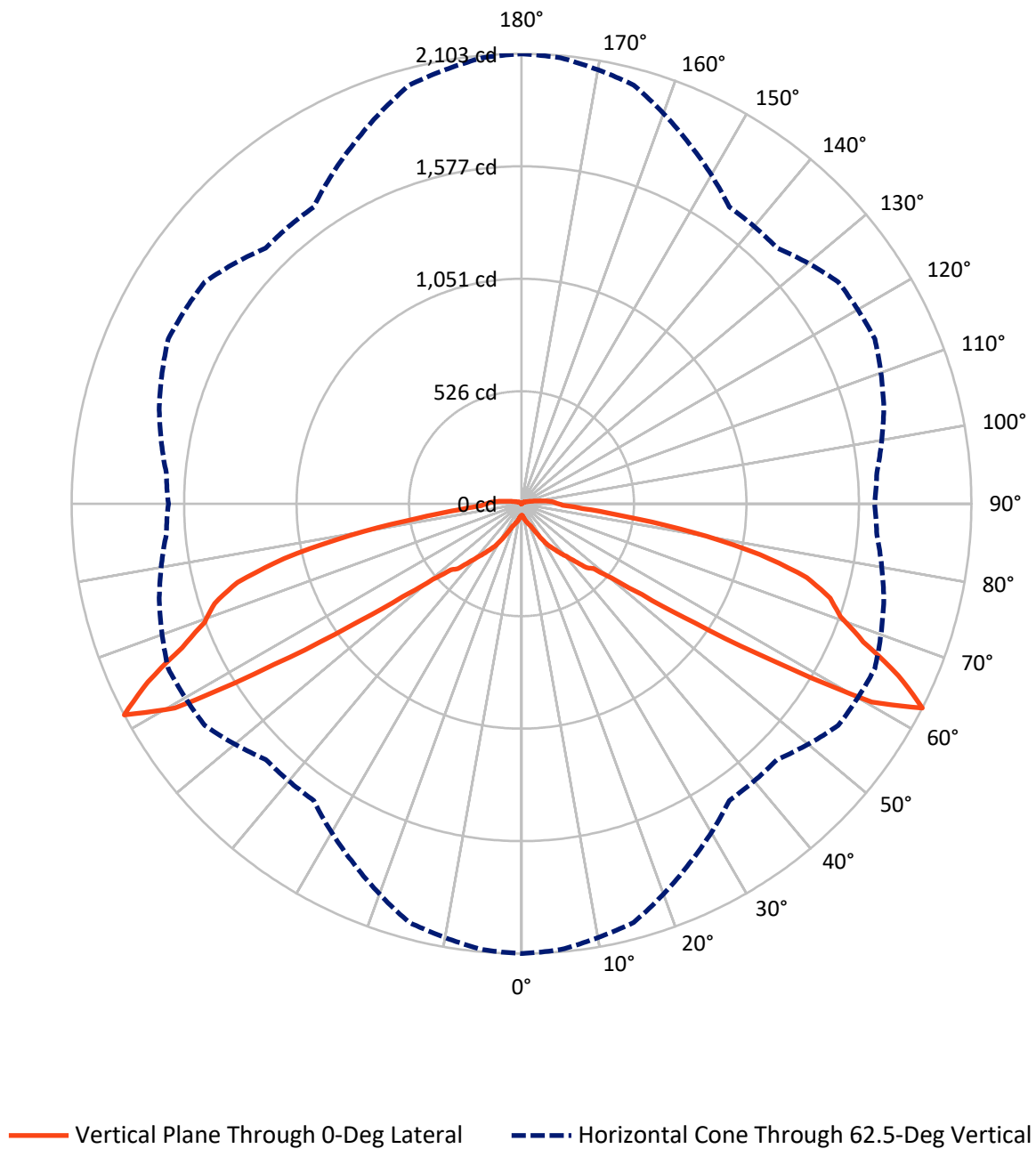


Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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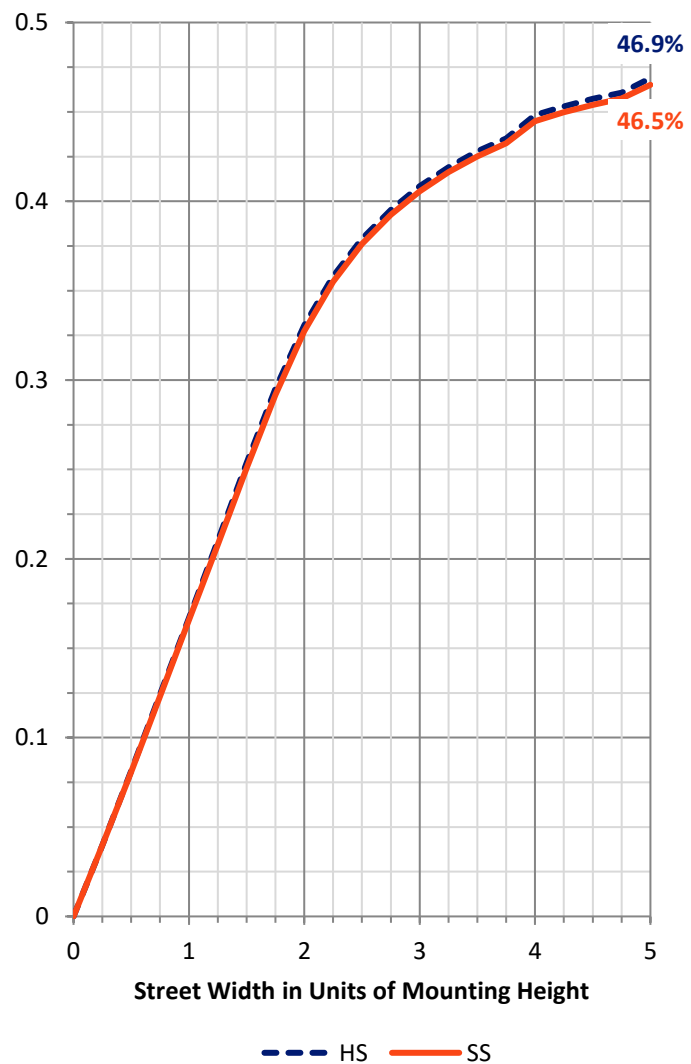
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2370.8	94.7	2465.5
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	2370.8	94.7	2465.5
	% Fixture	48.1	1.9	50.0
Total	Lumens	4741.5	189.5	4931.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.9	0.1
10°-20°	24.8	0.5
20°-30°	65.6	1.3
30°-40°	149.1	3.0
40°-50°	301.7	6.1
50°-60°	893.1	18.1
60°-70°	1677.8	34.0
70°-80°	1247.1	25.3
80°-90°	376.5	7.6
90°-100°	122.2	2.5
100°-110°	42.8	0.9
110°-120°	16.6	0.3
120°-130°	6.5	0.1
130°-140°	1.3	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°	4741.5	96.2
0°-180°	4931.0	100.0

Coefficient of Utilization



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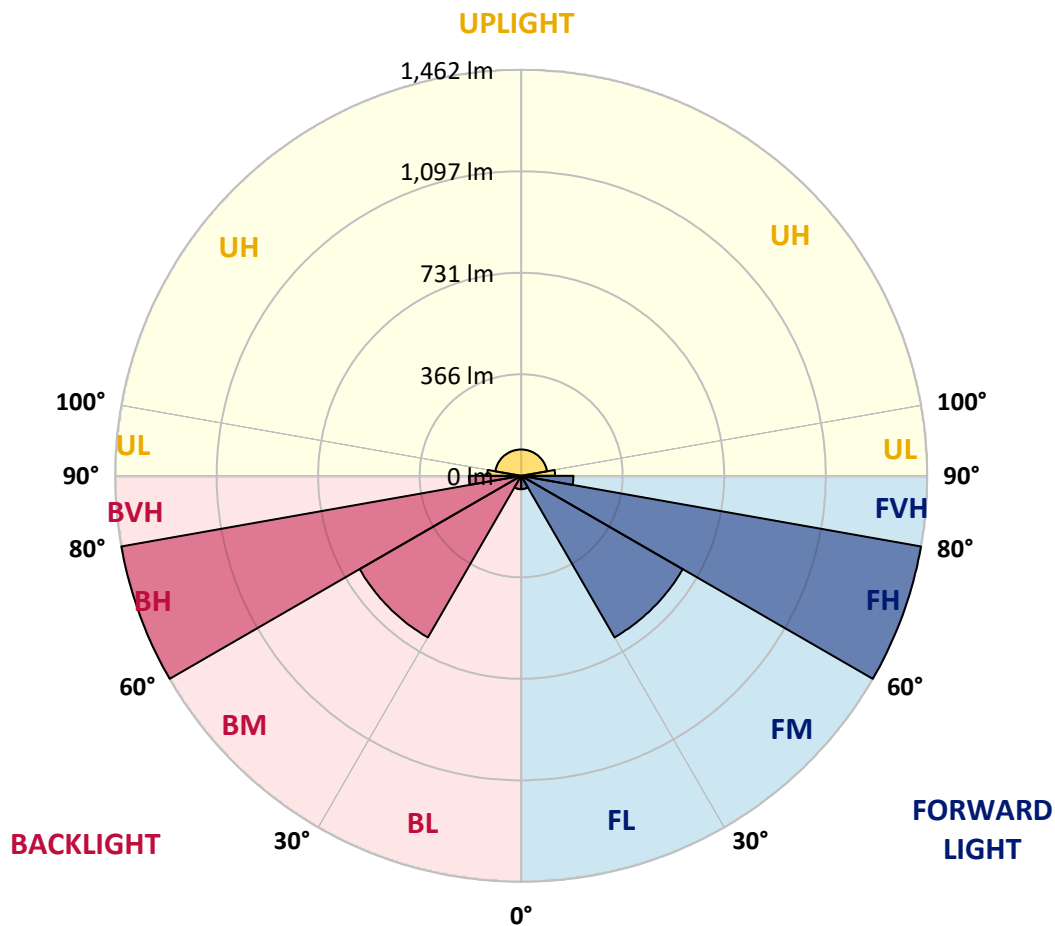
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	48.1	1.0			
FM	(30°-60°)	671.9	13.6			
FH	(60°-80°)	1462.4	29.7			G1/1800
FVH	(80°-90°)	188.2	3.8			G2/225
BL	(0°-30°)	48.1	1.0	B0/110		
BM	(30°-60°)	671.9	13.6	B1/1000		
BH	(60°-80°)	1462.4	29.7	B3/2500		G1/1800
BVH	(80°-90°)	188.2	3.8			G2/225
UL	(90°-100°)	122.2	2.5		U3/500	
UH	(100°-180°)	94.7	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°	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
2.5°	55.2	55.2	55.2	54.2	53.3	53.3	53.3	53.3	52.4	52.4	52.4
5°	58.0	58.0	57.0	56.1	56.1	55.2	56.1	55.2	55.2	55.2	56.1
7.5°	64.5	64.5	63.6	63.6	63.6	62.6	62.6	62.6	62.6	61.7	62.6
10°	72.0	72.0	72.0	72.0	72.0	71.1	71.1	70.1	70.1	70.1	70.1
12.5°	80.4	79.5	79.5	80.4	79.5	78.5	78.5	78.5	77.6	77.6	77.6
15°	87.9	87.9	86.9	86.9	86.9	86.0	86.0	85.1	85.1	84.1	84.1
17.5°	95.4	95.4	94.4	93.5	93.5	93.5	92.6	92.6	91.6	91.6	91.6
20°	104.7	103.8	102.8	101.9	101.0	101.0	101.0	101.0	100.0	99.1	99.1
22.5°	115.0	114.1	113.1	112.2	112.2	111.3	111.3	110.3	110.3	109.4	108.5
25°	136.5	136.5	132.8	131.8	131.8	132.8	131.8	130.9	129.0	126.2	126.2
27.5°	165.5	166.4	167.4	172.0	171.1	164.5	160.8	158.9	158.0	158.0	158.9
30°	198.2	199.1	201.9	206.6	203.8	195.4	186.1	182.3	185.1	188.9	189.8
32.5°	232.8	232.8	227.2	220.6	214.1	208.5	205.7	203.8	202.9	200.1	200.1
35°	259.9	255.2	237.5	216.0	209.4	213.2	224.4	228.1	214.1	201.0	199.1
37.5°	290.8	289.8	275.8	259.9	247.8	245.9	258.0	261.8	246.8	238.4	237.5
40°	323.5	325.4	328.2	321.6	302.9	297.3	290.8	286.1	286.1	287.0	285.2
42.5°	367.4	370.2	370.2	371.2	356.2	343.1	330.0	322.6	321.6	329.1	331.9
45°	426.3	426.3	419.8	406.7	400.2	390.8	382.4	374.9	371.2	372.1	374.9
47.5°	452.5	454.4	448.8	430.1	425.4	416.0	403.9	401.1	403.0	405.8	406.7
50°	544.1	539.5	501.1	461.9	447.8	457.2	474.9	479.6	461.9	444.1	439.4
52.5°	704.9	704.0	674.1	645.1	625.5	619.9	644.2	646.0	615.2	602.1	600.2
55°	983.6	973.3	995.7	1009.7	968.6	922.8	906.0	882.6	884.5	910.6	911.6
57.5°	1379.0	1384.6	1409.9	1373.4	1310.8	1277.1	1253.8	1209.8	1210.7	1234.1	1236.0
60°	1881.1	1880.2	1799.8	1659.5	1563.2	1569.8	1634.3	1643.6	1543.6	1479.1	1471.6
62.5°	2102.7	2092.4	2026.0	1855.9	1693.2	1690.4	1807.2	1822.2	1753.0	1667.0	1650.2
65°	1935.3	1926.9	1955.0	1897.0	1682.9	1627.7	1663.3	1659.5	1703.5	1742.7	1747.4
67.5°	1723.1	1725.0	1792.3	1774.5	1625.9	1532.4	1487.5	1481.9	1564.2	1655.8	1667.9
70°	1581.0	1581.0	1628.7	1556.7	1485.6	1424.8	1378.1	1349.1	1402.4	1417.4	1416.4
72.5°	1508.1	1501.5	1467.9	1398.7	1344.4	1291.2	1305.2	1283.7	1258.4	1219.2	1215.4
75°	1378.1	1370.6	1323.9	1291.2	1251.9	1185.5	1197.7	1176.2	1134.1	1098.6	1092.9
77.5°	1138.8	1138.8	1108.8	1084.5	1073.3	1016.3	1010.7	1000.4	958.3	938.7	931.2
80°	815.3	813.4	801.2	792.8	806.9	773.2	758.2	758.2	741.4	723.6	715.2
82.5°	485.2	478.7	478.7	481.5	473.1	451.6	455.3	476.8	474.9	464.7	457.2
85°	287.0	283.3	280.5	276.7	269.3	254.3	254.3	256.2	258.0	259.0	255.2
87.5°	191.7	190.7	190.7	190.7	182.3	172.0	176.7	179.5	177.6	176.7	175.8
90°	167.4	168.3	167.4	163.6	156.1	146.8	148.7	152.4	150.5	150.5	149.6
92.5°	150.5	150.5	148.7	144.9	137.4	129.0	130.0	131.8	130.9	130.0	129.0
95°	123.4	123.4	121.5	118.7	112.2	104.7	105.6	107.5	105.6	105.6	104.7
97.5°	96.3	96.3	95.4	93.5	87.9	82.3	83.2	84.1	83.2	83.2	82.3
100°	72.9	72.9	72.0	69.2	66.4	61.7	62.6	64.5	63.6	63.6	62.6
102.5°	54.2	54.2	53.3	52.4	48.6	45.8	46.7	46.7	46.7	45.8	45.8
105°	42.1	42.1	42.1	40.2	38.3	35.5	35.5	35.5	35.5	34.6	34.6
107.5°	33.7	32.7	32.7	31.8	29.9	28.0	28.0	28.0	28.0	28.0	28.0
110°	27.1	26.2	25.2	25.2	23.4	22.4	21.5	22.4	22.4	22.4	22.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	23.4	22.4	20.6	20.6	19.6	17.8	17.8	17.8	19.6	18.7	18.7
115°	20.6	19.6	16.8	16.8	15.9	15.0	15.0	15.0	16.8	15.0	15.0
117.5°	17.8	16.8	14.0	14.0	13.1	12.2	12.2	12.2	14.0	12.2	12.2
120°	13.1	13.1	11.2	11.2	11.2	10.3	10.3	10.3	11.2	10.3	10.3
122.5°	10.3	10.3	9.3	9.3	9.3	8.4	8.4	8.4	8.4	7.5	7.5
125°	10.3	12.2	7.5	7.5	6.5	6.5	6.5	5.6	6.5	5.6	5.6
127.5°	11.2	10.3	5.6	5.6	5.6	4.7	4.7	4.7	4.7	4.7	4.7
130°	3.7	5.6	3.7	3.7	3.7	3.7	3.7	3.7	2.8	2.8	2.8
132.5°	2.8	2.8	2.8	2.8	2.8	2.8	1.9	1.9	1.9	1.9	1.9
135°	1.9	1.9	1.9	1.9	1.9	1.9	0.9	0.9	0.9	0.9	0.9
137.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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	0.9	0.9	0.9	0.9	0.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
170°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9
172.5°	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
175°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9
177.5°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
180°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9

(END OF REPORT)