

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: P691077

Luminaire Tested: **CRTK2-C013-5TLD-U-T5R-7030-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-23)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C013-5TLD-U-T5R-7030-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K LED WITH TYPE V ROUND OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3051 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type V - Short
BUG Rating: B2 - U3 - G1

Input Watts (W): 23.2
Input Voltage (V): NR
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: 24 FT

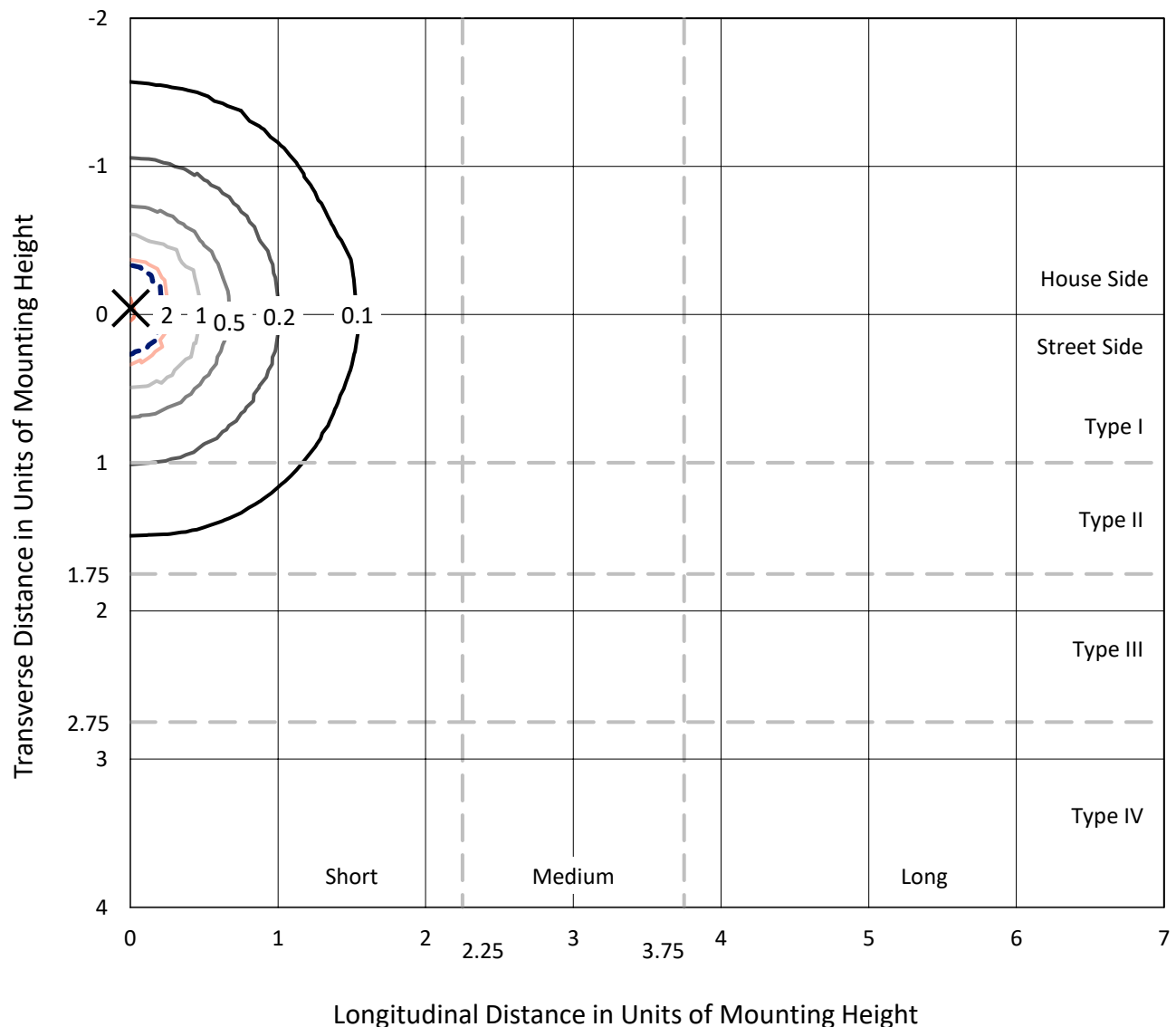


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Iso-Footcandle Lines of Horizontal Illumination

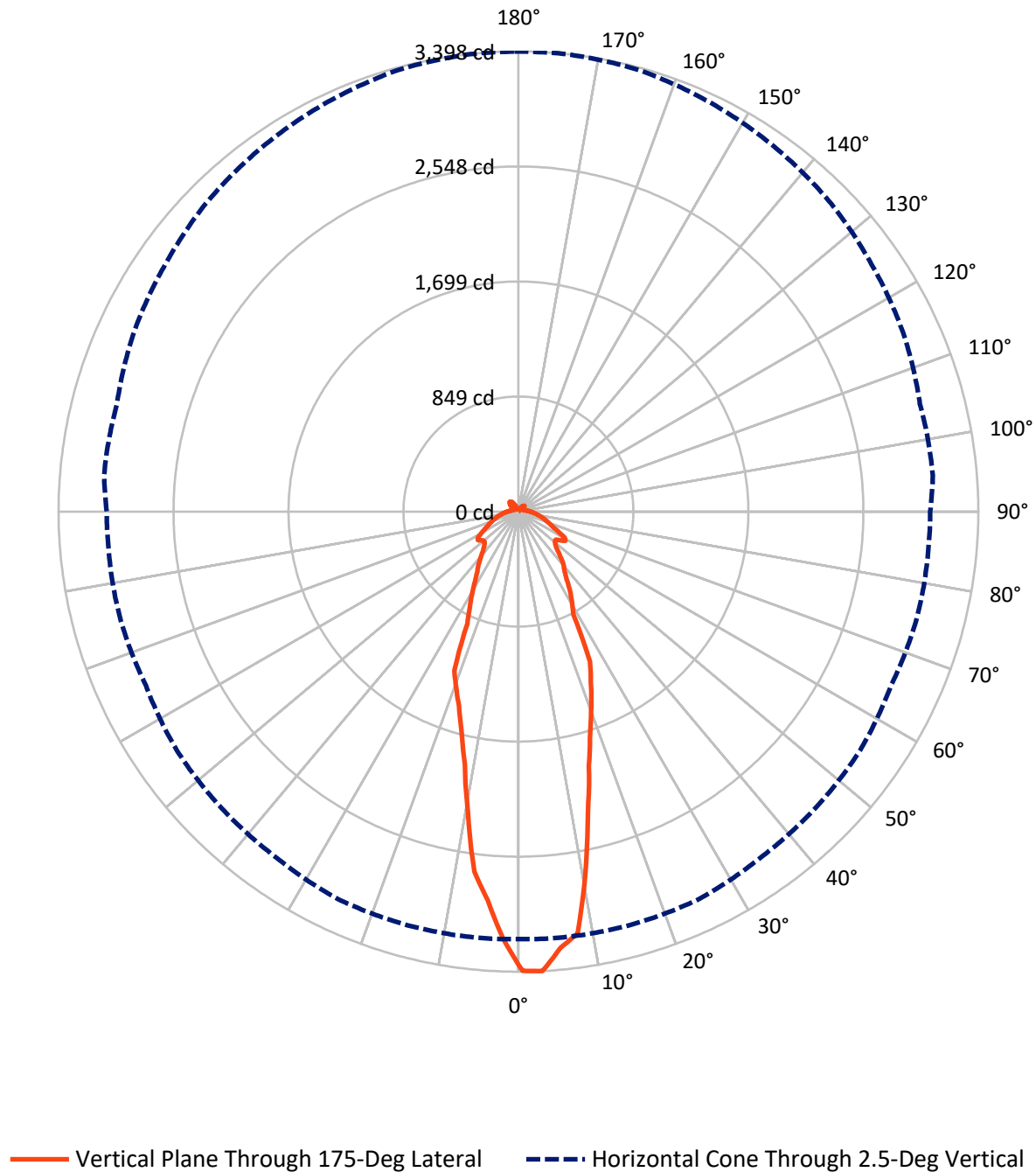
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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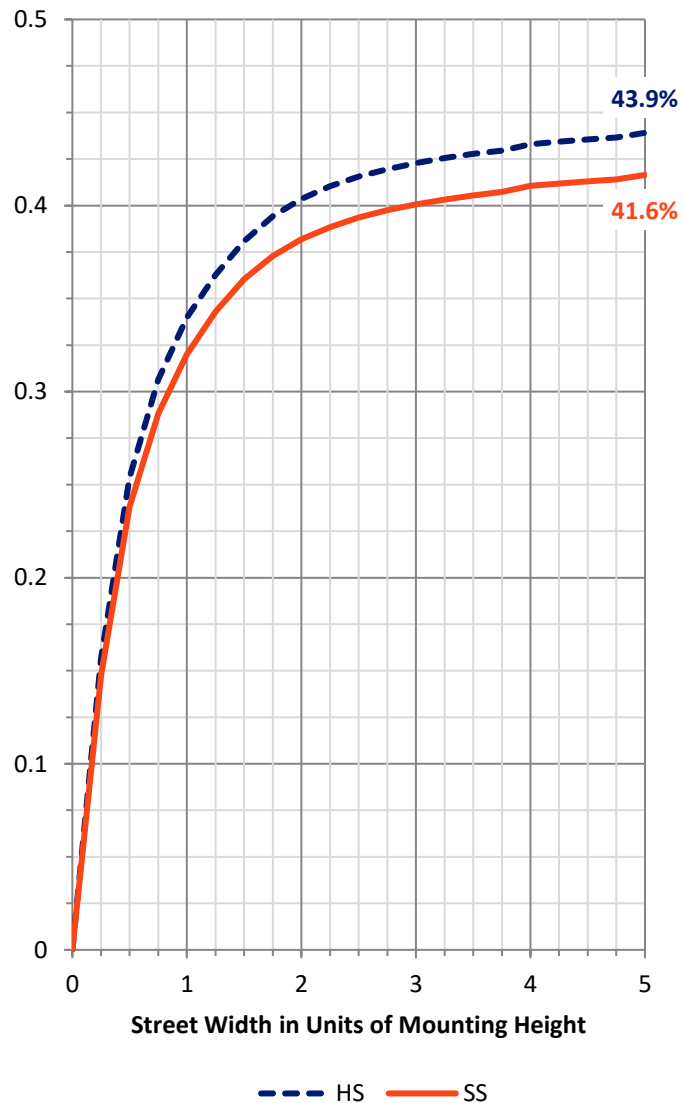
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1380.8	182.4	1563.3
	% Fixture	45.3	6.0	51.2
Street Side	Lumens	1300.5	187.2	1487.8
	% Fixture	42.6	6.1	48.8
Total	Lumens	2681.4	369.6	3051.0
	% Fixture	87.9	12.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.4	8.3
10°-20°	443.0	14.5
20°-30°	439.3	14.4
30°-40°	338.7	11.1
40°-50°	290.3	9.5
50°-60°	324.7	10.6
60°-70°	278.2	9.1
70°-80°	191.4	6.3
80°-90°	123.2	4.0
90°-100°	73.8	2.4
100°-110°	43.9	1.4
110°-120°	40.7	1.3
120°-130°	58.0	1.9
130°-140°	75.0	2.5
140°-150°	55.5	1.8
150°-160°	20.3	0.7
160°-170°	2.4	0.1
170°-180°	0.0	0.0
0°-90°	2681.4	87.9
0°-180°	3051.0	100.0

Coefficient of Utilization



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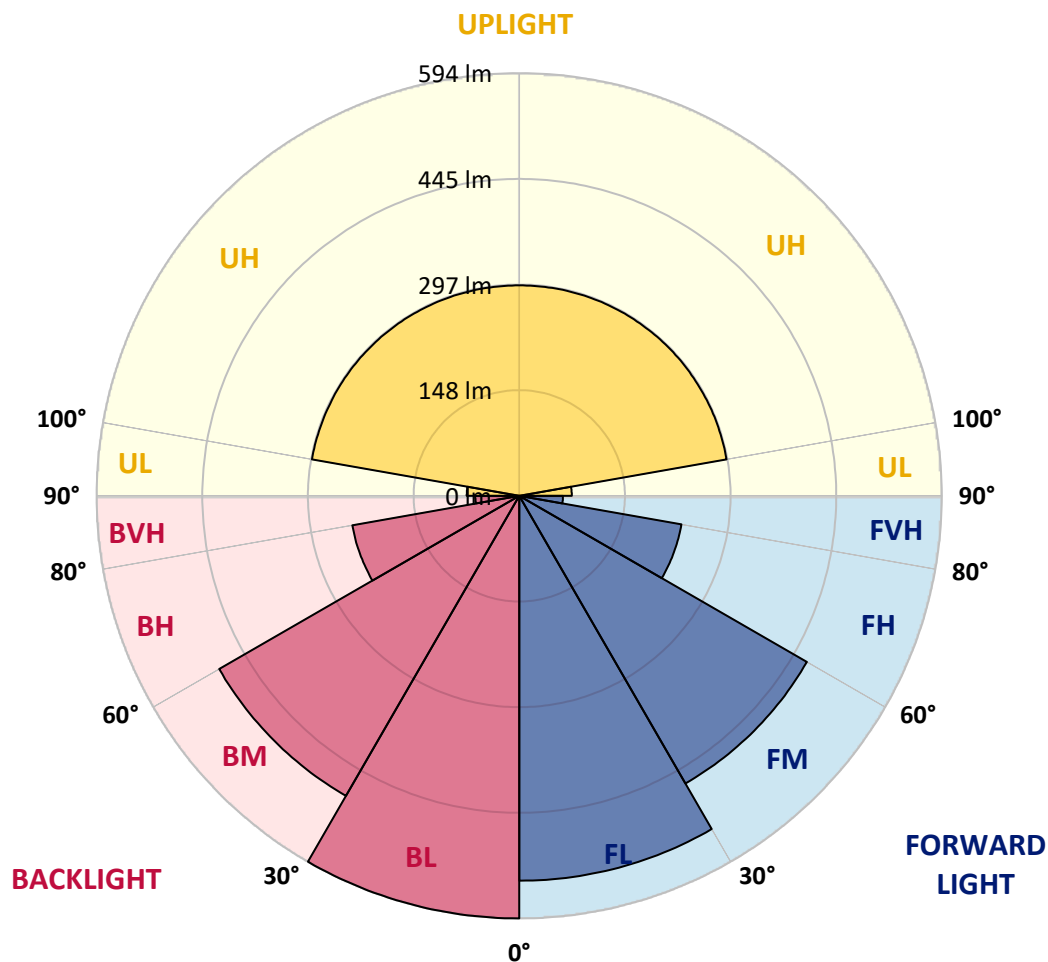
CATALOG NUMBER: CRTK2-C013-5TLD-U-T5R-7030-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	540.9	17.7			
FM	(30°-60°)	466.8	15.3			
FH	(60°-80°)	231.4	7.6			G0/660
FVH	(80°-90°)	61.4	2.0			G1/100
BL	(0°-30°)	593.9	19.5	B2/1000		
BM	(30°-60°)	486.9	16.0	B1/1000		
BH	(60°-80°)	238.2	7.8	B1/500		G0/660
BVH	(80°-90°)	61.8	2.0			G1/100
UL	(90°-100°)	73.8	2.4		U3/500	
UH	(100°-180°)	295.8	9.7		U3/500	

BUG Rating: B2-U3-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3390.6	3390.6	3390.6	3390.6	3390.6	3390.6	3390.6	3390.6	3390.6	3390.6	3390.6
2.5°	3156.4	3161.0	3162.2	3156.4	3118.5	3099.0	3078.4	3037.1	3046.2	3040.5	3041.6
5°	2862.6	2881.0	2852.3	2844.2	2786.8	2744.4	2703.0	2658.3	2648.0	2629.6	2636.5
7.5°	2667.5	2677.8	2630.7	2582.5	2490.7	2425.3	2356.4	2287.5	2235.9	2216.4	2224.4
10°	2221.0	2255.4	2208.4	2159.0	2071.8	1993.7	1921.4	1853.7	1806.6	1791.7	1794.0
12.5°	1888.1	1907.6	1867.5	1834.2	1736.6	1662.0	1595.4	1532.3	1494.4	1478.4	1478.4
15°	1667.7	1675.8	1644.8	1580.5	1507.1	1439.3	1383.1	1337.2	1306.2	1300.4	1302.7
17.5°	1501.3	1501.3	1470.3	1419.8	1363.6	1303.9	1264.9	1230.4	1216.7	1221.3	1222.4
20°	1376.2	1377.3	1349.8	1300.4	1252.2	1198.3	1166.2	1142.1	1134.0	1142.1	1143.2
22.5°	1258.0	1263.7	1233.9	1197.1	1144.3	1101.9	1075.5	1049.1	1044.5	1047.9	1047.9
25°	910.2	910.2	899.9	871.2	882.7	887.2	918.2	984.8	971.0	983.7	982.5
27.5°	785.1	789.7	769.0	743.8	717.4	686.4	680.6	674.9	669.2	695.6	704.7
30°	693.3	695.6	678.3	661.1	639.3	622.1	617.5	617.5	611.8	632.4	631.3
32.5°	606.0	602.6	598.0	581.9	568.2	553.2	556.7	554.4	554.4	572.7	573.9
35°	537.2	536.0	532.6	521.1	507.3	495.8	499.3	501.6	500.4	511.9	511.9
37.5°	486.7	487.8	485.5	480.9	467.2	458.0	460.3	458.0	461.4	469.4	469.4
40°	437.3	437.3	438.5	437.3	428.1	424.7	431.6	428.1	436.2	441.9	439.6
42.5°	390.2	391.4	393.7	391.4	385.7	382.2	385.7	386.8	398.3	406.3	405.2
45°	360.4	360.4	361.6	360.4	355.8	352.4	352.4	348.9	357.0	361.6	360.4
47.5°	340.9	340.9	343.2	342.0	339.7	336.3	334.0	329.4	332.9	336.3	332.9
50°	334.0	334.0	338.6	338.6	337.5	334.0	330.6	324.8	326.0	328.3	323.7
52.5°	344.3	344.3	352.4	355.8	355.8	350.1	345.5	337.5	337.5	339.7	332.9
55°	366.1	366.1	378.8	385.7	386.8	386.8	381.1	373.0	374.2	378.8	371.9
57.5°	358.1	359.3	369.6	378.8	384.5	388.0	388.0	383.4	386.8	398.3	394.8
60°	320.2	322.5	329.4	337.5	347.8	351.2	351.2	350.1	355.8	369.6	369.6
62.5°	284.7	285.8	289.2	296.1	301.9	304.2	304.2	299.6	306.5	313.3	311.1
65°	257.1	256.0	262.8	268.6	272.0	275.5	272.0	267.4	270.9	275.5	274.3
67.5°	234.1	234.1	239.9	244.5	246.8	250.2	247.9	245.6	250.2	252.5	250.2
70°	212.3	213.5	218.1	221.5	223.8	227.3	223.8	222.7	227.3	229.6	228.4
72.5°	190.5	191.7	195.1	199.7	202.0	203.2	202.0	200.9	204.3	206.6	206.6
75°	171.0	172.2	174.5	179.1	179.1	181.4	180.2	179.1	182.5	184.8	184.8
77.5°	152.7	155.0	156.1	159.5	160.7	161.8	160.7	160.7	163.0	165.3	166.4
80°	136.6	137.7	138.9	142.3	142.3	143.5	142.3	142.3	144.6	148.1	148.1
82.5°	121.7	122.8	124.0	126.3	125.1	126.3	126.3	126.3	128.6	132.0	132.0
85°	106.7	109.0	109.0	111.3	111.3	111.3	111.3	112.5	113.6	117.1	117.1
87.5°	94.1	95.3	96.4	97.6	97.6	98.7	98.7	99.9	101.0	103.3	104.4
90°	81.5	82.6	83.8	83.8	83.8	84.9	84.9	86.1	87.2	89.5	90.7
92.5°	72.3	73.5	73.5	74.6	74.6	74.6	75.8	76.9	78.0	80.3	80.3
95°	64.3	65.4	65.4	65.4	65.4	66.6	66.6	67.7	68.9	71.2	71.2
97.5°	57.4	57.4	57.4	57.4	57.4	58.5	58.5	59.7	60.8	62.0	62.0
100°	50.5	50.5	50.5	50.5	50.5	50.5	50.5	51.7	51.7	53.9	53.9
102.5°	44.8	44.8	43.6	43.6	43.6	42.5	42.5	43.6	43.6	44.8	44.8
105°	40.2	40.2	40.2	40.2	39.0	39.0	39.0	39.0	39.0	40.2	40.2
107.5°	39.0	39.0	37.9	37.9	37.9	36.7	36.7	36.7	36.7	37.9	37.9
110°	37.9	37.9	37.9	37.9	36.7	36.7	35.6	35.6	35.6	36.7	36.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	39.0	39.0	39.0	37.9	37.9	36.7	36.7	36.7	36.7	36.7	37.9
115°	41.3	40.2	40.2	40.2	40.2	39.0	37.9	37.9	39.0	39.0	39.0
117.5°	44.8	43.6	43.6	44.8	43.6	42.5	41.3	41.3	42.5	42.5	43.6
120°	49.4	48.2	49.4	49.4	49.4	48.2	47.1	45.9	47.1	48.2	48.2
122.5°	55.1	53.9	55.1	56.2	56.2	55.1	52.8	52.8	53.9	55.1	56.2
125°	62.0	62.0	63.1	64.3	65.4	63.1	62.0	60.8	63.1	64.3	64.3
127.5°	70.0	68.9	71.2	74.6	75.8	73.5	71.2	70.0	72.3	74.6	74.6
130°	78.0	76.9	80.3	83.8	86.1	83.8	81.5	80.3	82.6	84.9	84.9
132.5°	84.9	83.8	88.4	93.0	95.3	94.1	91.8	89.5	93.0	95.3	94.1
135°	90.7	90.7	96.4	101.0	103.3	102.2	99.9	97.6	102.2	104.4	102.2
137.5°	94.1	94.1	101.0	105.6	107.9	107.9	106.7	104.4	109.0	110.2	106.7
140°	94.1	95.3	101.0	105.6	106.7	107.9	107.9	106.7	111.3	111.3	107.9
142.5°	90.7	91.8	97.6	102.2	103.3	104.4	105.6	104.4	107.9	107.9	105.6
145°	84.9	86.1	91.8	96.4	96.4	97.6	99.9	98.7	101.0	102.2	99.9
147.5°	76.9	78.0	82.6	84.9	86.1	88.4	90.7	90.7	91.8	93.0	91.8
150°	66.6	66.6	70.0	72.3	73.5	75.8	78.0	79.2	79.2	80.3	79.2
152.5°	52.8	52.8	55.1	57.4	58.5	62.0	63.1	64.3	65.4	66.6	65.4
155°	40.2	40.2	41.3	42.5	43.6	47.1	48.2	49.4	50.5	51.7	50.5
157.5°	28.7	28.7	29.8	31.0	32.1	34.4	35.6	36.7	36.7	37.9	37.9
160°	18.4	19.5	19.5	20.7	20.7	23.0	24.1	24.1	25.3	26.4	26.4
162.5°	9.2	10.3	10.3	11.5	12.6	13.8	14.9	14.9	16.1	16.1	16.1
165°	2.3	3.4	3.4	4.6	4.6	5.7	6.9	6.9	8.0	8.0	8.0
167.5°	0.0	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3	2.3	2.3
170°	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.1	1.1	1.1	1.1
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
0°	3390.6	3390.6	3390.6	3390.6	3390.6	3390.6	3390.6	3390.6	3390.6	3390.6	3390.6
2.5°	3072.6	3070.3	3133.5	3184.0	3243.7	3290.7	3336.6	3380.2	3397.5	3396.3	3397.5
5°	2667.5	2707.6	2790.3	2871.8	2968.2	3058.9	3143.8	3200.0	3235.6	3235.6	3239.1
7.5°	2261.1	2325.4	2427.6	2557.3	2701.9	2820.1	2963.6	3064.6	3144.9	3142.7	3157.6
10°	1826.1	1876.6	1978.8	2117.7	2277.2	2413.8	2538.9	2633.0	2711.1	2706.5	2726.0
12.5°	1500.2	1535.7	1624.1	1750.4	1896.2	2028.1	2151.0	2224.4	2279.5	2278.4	2288.7
15°	1308.5	1345.2	1402.6	1489.8	1610.4	1727.4	1850.2	1916.8	1947.8	1944.4	1961.6
17.5°	1230.4	1245.4	1280.9	1339.5	1426.7	1522.0	1619.5	1676.9	1712.5	1707.9	1720.5
20°	1146.6	1160.4	1184.5	1228.1	1290.1	1362.4	1445.1	1508.2	1534.6	1533.4	1541.5
22.5°	1050.2	1057.1	1083.5	1117.9	1162.7	1221.3	1284.4	1341.8	1368.2	1367.0	1375.1
25°	983.7	995.1	1011.2	1031.9	1062.9	1108.8	1161.6	1201.7	1225.8	1223.5	1233.9
27.5°	718.5	730.0	738.0	750.7	751.8	789.7	808.0	841.3	863.1	862.0	868.9
30°	631.3	633.6	640.5	657.7	668.0	697.9	734.6	759.8	778.2	785.1	789.7
32.5°	576.2	583.1	591.1	599.1	611.8	630.1	658.8	681.8	701.3	704.7	712.8
35°	513.1	517.7	523.4	531.4	539.5	554.4	576.2	594.6	609.5	615.2	619.8
37.5°	468.3	469.4	475.2	484.4	491.3	503.9	523.4	537.2	552.1	553.2	557.8
40°	438.5	439.6	445.3	453.4	461.4	469.4	486.7	499.3	509.6	510.8	514.2
42.5°	404.0	407.5	409.8	413.2	418.9	425.8	440.8	447.6	454.5	455.7	460.3
45°	357.0	358.1	360.4	363.8	370.7	377.6	388.0	396.0	400.6	400.6	399.4
47.5°	330.6	331.7	331.7	336.3	342.0	348.9	358.1	365.0	367.3	367.3	367.3
50°	321.4	321.4	319.1	322.5	328.3	332.9	342.0	347.8	348.9	350.1	351.2
52.5°	328.3	326.0	319.1	322.5	328.3	332.9	342.0	344.3	344.3	346.6	347.8
55°	366.1	362.7	348.9	351.2	358.1	363.8	370.7	371.9	374.2	377.6	376.5
57.5°	390.2	392.5	376.5	379.9	392.5	397.1	405.2	404.0	408.6	413.2	414.4
60°	367.3	374.2	361.6	366.1	381.1	383.4	391.4	386.8	393.7	393.7	393.7
62.5°	312.2	314.5	307.6	314.5	328.3	328.3	334.0	330.6	332.9	330.6	331.7
65°	273.2	272.0	264.0	273.2	277.8	280.1	284.7	285.8	285.8	283.5	283.5
67.5°	249.1	246.8	239.9	242.2	246.8	247.9	254.8	256.0	254.8	254.8	256.0
70°	227.3	223.8	216.9	218.1	221.5	222.7	228.4	230.7	229.6	228.4	229.6
72.5°	205.5	202.0	195.1	195.1	198.6	200.9	205.5	207.8	205.5	205.5	206.6
75°	184.8	181.4	174.5	174.5	176.8	177.9	183.6	184.8	183.6	182.5	183.6
77.5°	166.4	164.1	157.2	157.2	158.4	159.5	163.0	164.1	163.0	161.8	163.0
80°	149.2	145.8	141.2	140.0	141.2	141.2	144.6	145.8	143.5	143.5	144.6
82.5°	133.1	129.7	125.1	125.1	124.0	125.1	127.4	128.6	127.4	126.3	127.4
85°	118.2	115.9	111.3	110.2	110.2	110.2	112.5	112.5	111.3	111.3	111.3
87.5°	104.4	102.2	97.6	97.6	96.4	97.6	98.7	98.7	97.6	97.6	97.6
90°	90.7	88.4	84.9	84.9	83.8	84.9	86.1	86.1	84.9	84.9	84.9
92.5°	80.3	79.2	75.8	75.8	74.6	75.8	75.8	75.8	74.6	74.6	74.6
95°	71.2	70.0	67.7	66.6	66.6	66.6	66.6	66.6	65.4	65.4	65.4
97.5°	62.0	60.8	58.5	58.5	57.4	58.5	58.5	58.5	57.4	57.4	57.4
100°	53.9	52.8	51.7	51.7	50.5	50.5	50.5	50.5	50.5	50.5	50.5
102.5°	44.8	44.8	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
105°	40.2	40.2	40.2	40.2	41.3	41.3	41.3	40.2	40.2	40.2	40.2
107.5°	37.9	37.9	37.9	39.0	39.0	39.0	40.2	37.9	36.7	36.7	36.7
110°	36.7	36.7	37.9	37.9	39.0	39.0	40.2	35.6	34.4	34.4	34.4



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	37.9	37.9	37.9	39.0	40.2	40.2	41.3	35.6	34.4	34.4	34.4
115°	40.2	40.2	40.2	41.3	42.5	43.6	43.6	37.9	35.6	35.6	36.7
117.5°	43.6	43.6	43.6	44.8	47.1	47.1	47.1	40.2	39.0	39.0	39.0
120°	48.2	49.4	49.4	50.5	52.8	53.9	51.7	45.9	39.0	42.5	42.5
122.5°	55.1	56.2	57.4	58.5	62.0	62.0	58.5	52.8	42.5	47.1	48.2
125°	64.3	65.4	66.6	68.9	72.3	72.3	67.7	59.7	48.2	52.8	53.9
127.5°	73.5	75.8	76.9	80.3	84.9	84.9	79.2	68.9	53.9	57.4	58.5
130°	83.8	86.1	88.4	93.0	98.7	96.4	91.8	78.0	58.5	60.8	60.8
132.5°	93.0	96.4	97.6	104.4	110.2	107.9	102.2	83.8	60.8	60.8	59.7
135°	99.9	102.2	103.3	110.2	115.9	112.5	105.6	86.1	59.7	57.4	57.4
137.5°	104.4	106.7	107.9	112.5	117.1	111.3	102.2	81.5	57.4	56.2	55.1
140°	106.7	106.7	106.7	110.2	112.5	105.6	94.1	73.5	51.7	53.9	53.9
142.5°	104.4	103.3	102.2	104.4	105.6	97.6	87.2	65.4	47.1	49.4	49.4
145°	98.7	96.4	95.3	96.4	96.4	87.2	75.8	56.2	41.3	42.5	42.5
147.5°	90.7	87.2	84.9	84.9	83.8	74.6	64.3	47.1	35.6	34.4	34.4
150°	78.0	74.6	72.3	72.3	68.9	60.8	51.7	36.7	28.7	28.7	28.7
152.5°	64.3	60.8	58.5	58.5	55.1	47.1	39.0	27.5	21.8	21.8	21.8
155°	50.5	47.1	44.8	43.6	41.3	35.6	28.7	20.7	16.1	16.1	16.1
157.5°	37.9	35.6	33.3	32.1	29.8	26.4	20.7	14.9	10.3	11.5	11.5
160°	26.4	24.1	23.0	21.8	20.7	17.2	13.8	9.2	5.7	5.7	5.7
162.5°	16.1	14.9	14.9	13.8	12.6	11.5	8.0	4.6	2.3	2.3	2.3
165°	8.0	8.0	6.9	6.9	5.7	4.6	3.4	1.1	0.0	0.0	0.0
167.5°	2.3	2.3	2.3	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0
170°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)