

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: P691046

Luminaire Tested: **CRTK2-C013-5TLD-U-T3-7030-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-15)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C013-5TLD-U-T3-7030-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K LED WITH TYPE III OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2890 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - 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



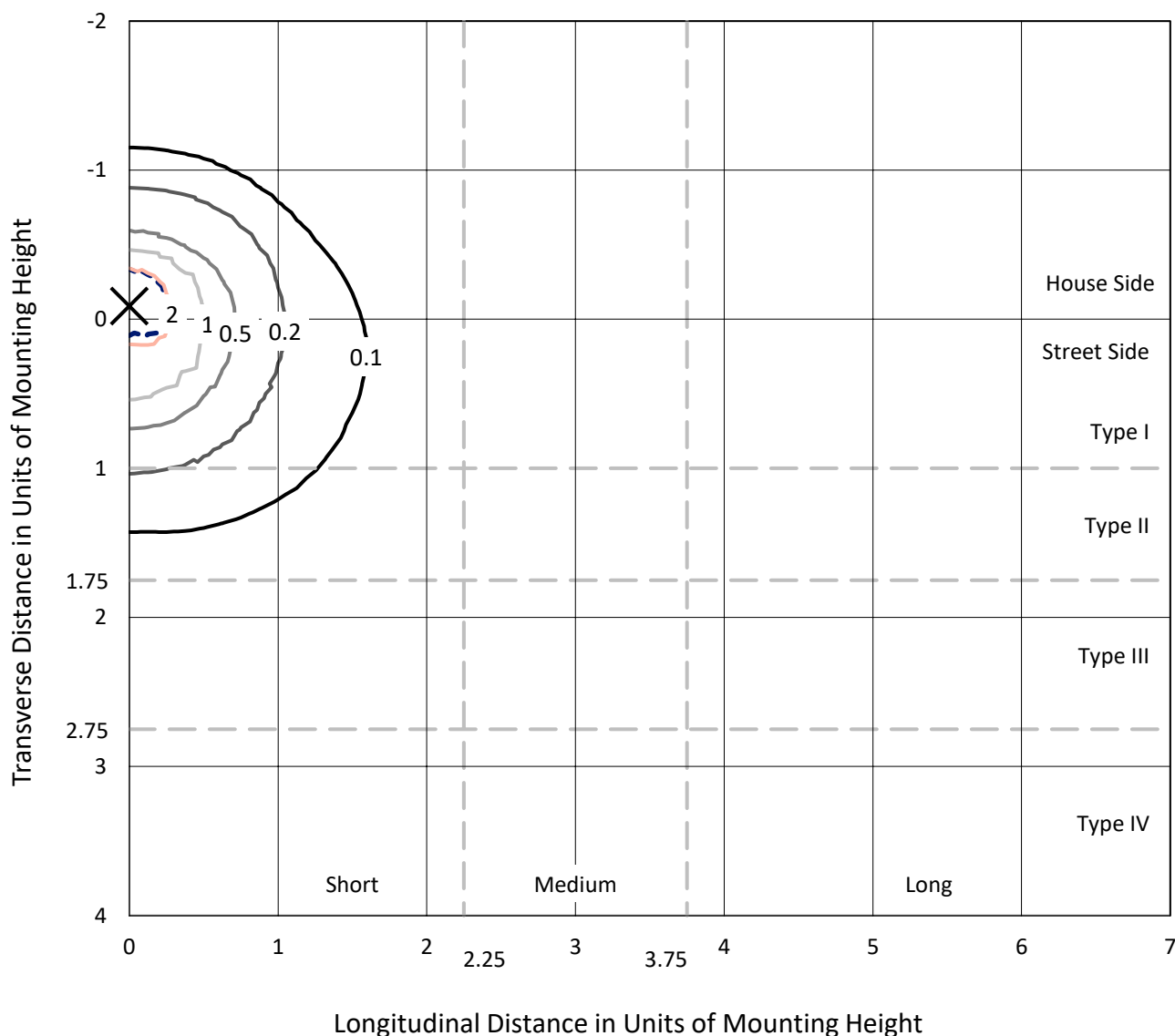
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

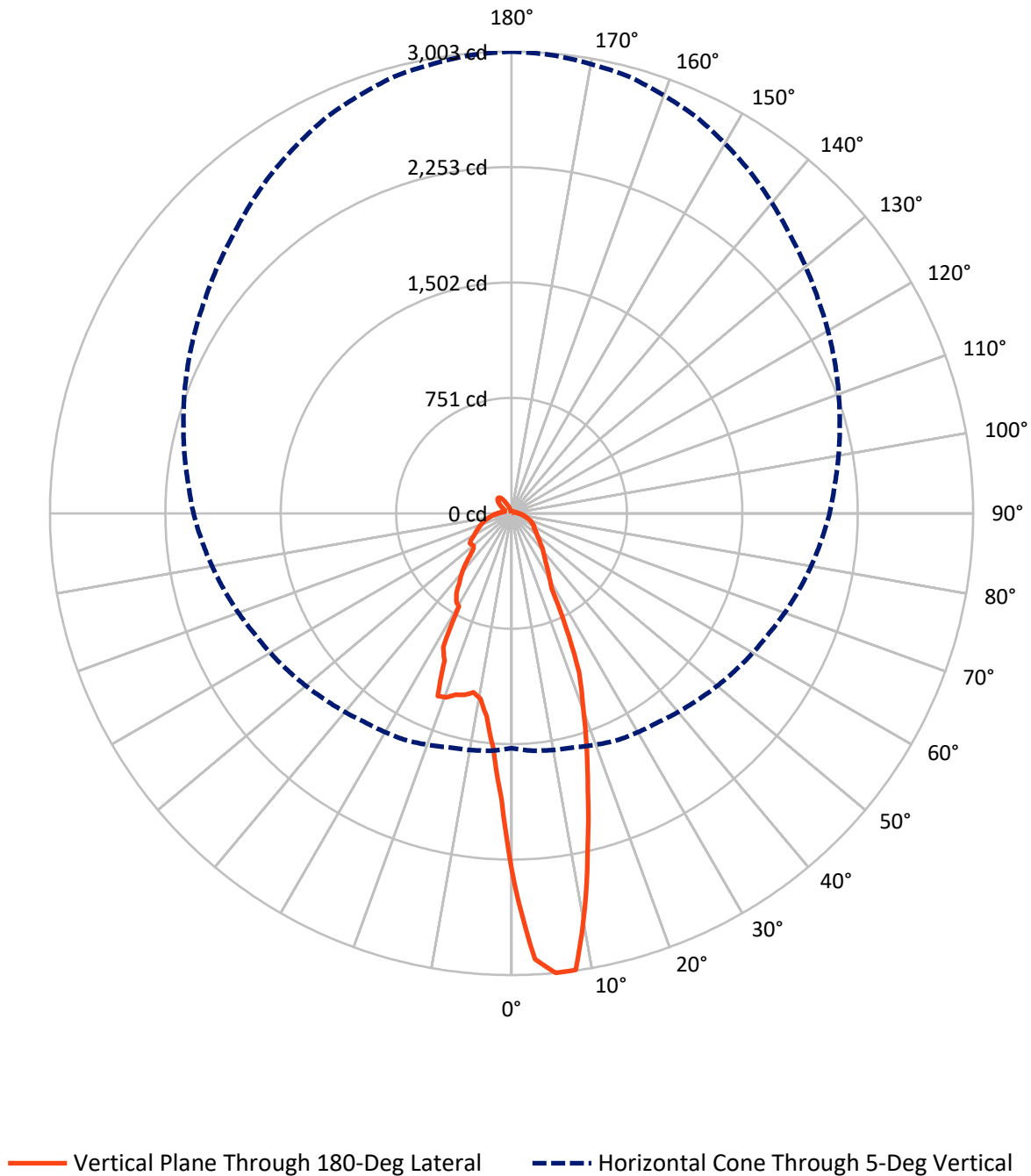


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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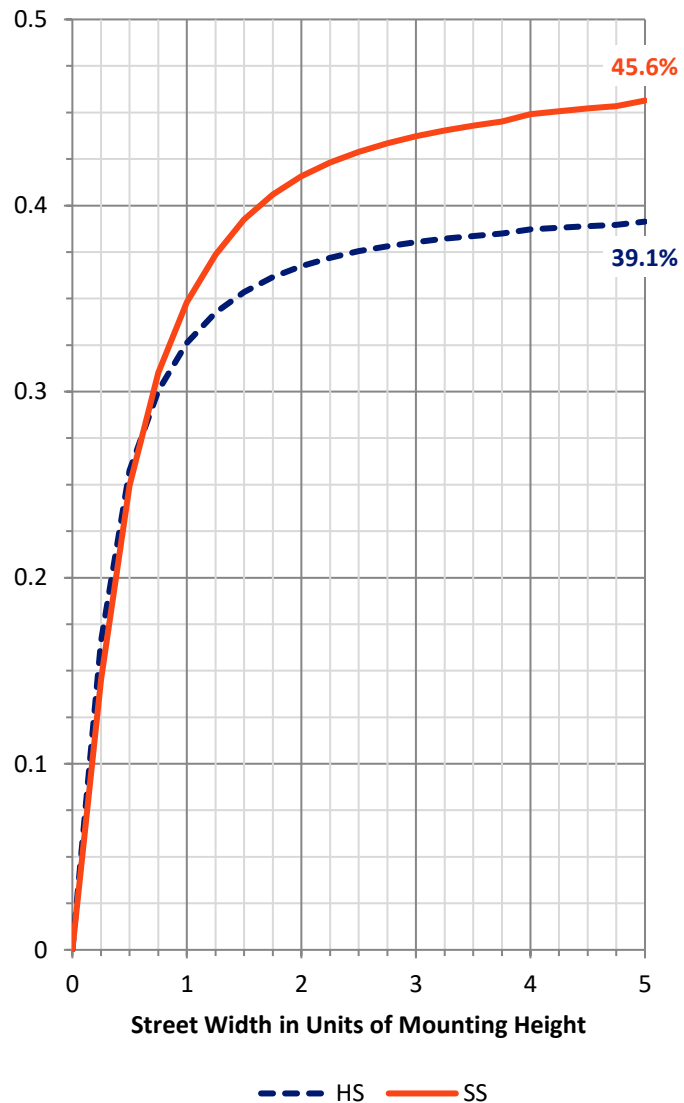
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1161.5	124.5	1286.1
	% Fixture	40.2	4.3	44.5
Street Side	Lumens	1355.5	248.4	1603.9
	% Fixture	46.9	8.6	55.5
Total	Lumens	2517.0	373.0	2890.0
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.3	6.7
10°-20°	416.6	14.4
20°-30°	458.7	15.9
30°-40°	337.1	11.7
40°-50°	282.4	9.8
50°-60°	283.4	9.8
60°-70°	242.7	8.4
70°-80°	180.8	6.3
80°-90°	121.0	4.2
90°-100°	71.9	2.5
100°-110°	41.7	1.4
110°-120°	38.8	1.3
120°-130°	56.3	1.9
130°-140°	75.7	2.6
140°-150°	61.3	2.1
150°-160°	24.2	0.8
160°-170°	2.9	0.1
170°-180°	0.0	0.0
0°-90°	2517.0	87.1
0°-180°	2890.0	100.0

Coefficient of Utilization



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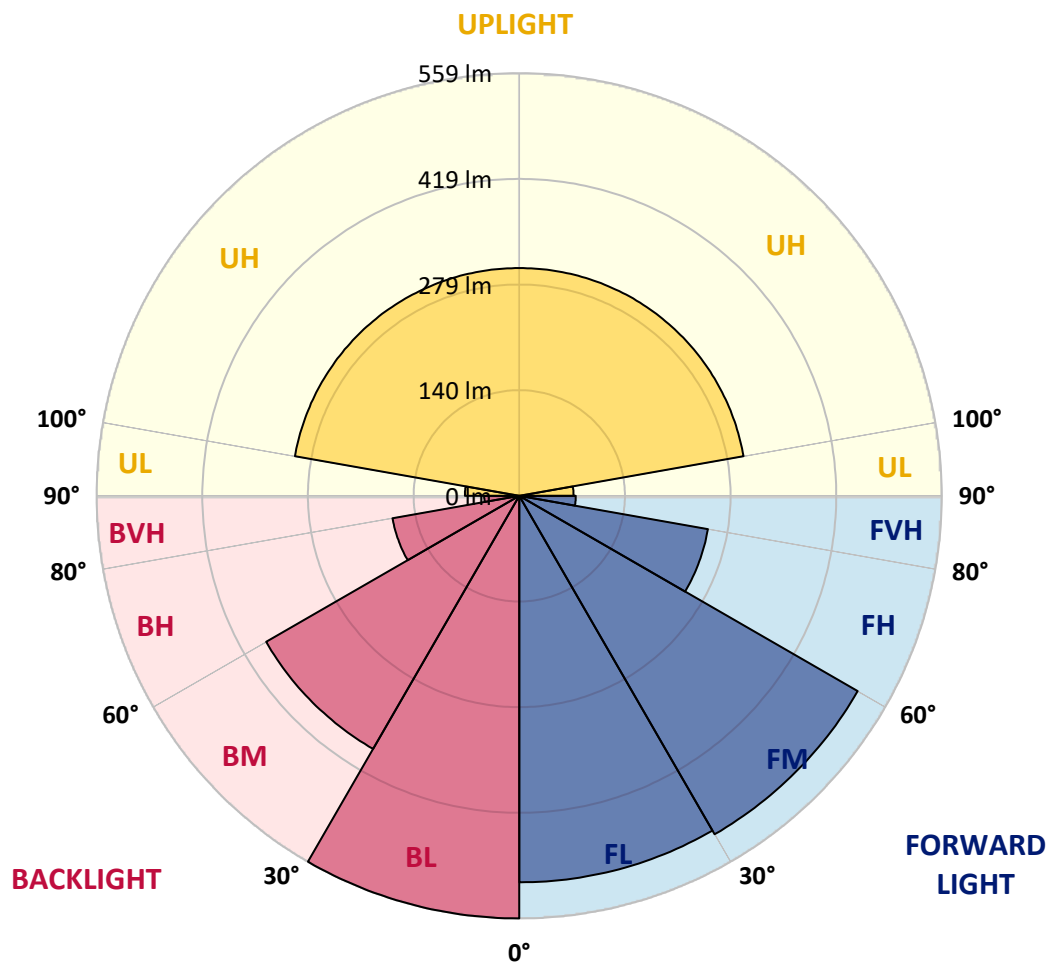
CATALOG NUMBER: CRTK2-C013-5TLD-U-T3-7030-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	511.0	17.7			
FM	(30°-60°)	516.6	17.9			
FH	(60°-80°)	253.3	8.8			G0/660
FVH	(80°-90°)	74.7	2.6			G1/100
BL	(0°-30°)	558.7	19.3	B2/1000		
BM	(30°-60°)	386.3	13.4	B1/1000		
BH	(60°-80°)	170.2	5.9	B1/500		G1/500
BVH	(80°-90°)	46.3	1.6			G1/100
UL	(90°-100°)	71.9	2.5		U3/500	
UH	(100°-180°)	301.1	10.4		U3/500	

BUG Rating: B2-U3-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2419.2	2419.2	2419.2	2419.2	2419.2	2419.2	2419.2	2419.2	2419.2	2419.2	2419.2
2.5°	1863.8	1891.3	1905.1	1946.4	1960.2	1986.6	2026.7	2066.9	2134.6	2185.1	2224.1
5°	1527.5	1550.5	1575.7	1628.5	1659.5	1714.6	1778.8	1847.7	1934.9	2023.3	2069.2
7.5°	1331.3	1337.0	1373.7	1438.0	1494.2	1552.7	1622.8	1682.4	1742.1	1814.4	1860.3
10°	1223.4	1231.4	1255.5	1304.9	1353.1	1401.3	1456.3	1502.2	1563.1	1623.9	1651.4
12.5°	1191.2	1194.7	1215.3	1244.0	1275.0	1306.0	1348.5	1389.8	1443.7	1496.5	1514.9
15°	1219.9	1219.9	1223.4	1234.9	1250.9	1275.0	1307.2	1342.7	1392.1	1431.1	1450.6
17.5°	1233.7	1234.9	1244.0	1246.3	1261.2	1271.6	1300.3	1327.8	1374.9	1407.0	1417.3
20°	1270.4	1270.4	1271.6	1277.3	1279.6	1285.3	1298.0	1312.9	1351.9	1369.1	1366.8
22.5°	1281.9	1277.3	1295.7	1329.0	1327.8	1329.0	1317.5	1320.9	1342.7	1335.8	1319.8
25°	1052.4	1046.6	1067.3	1088.0	1117.8	1155.7	1249.8	1323.2	1350.8	1329.0	1293.4
27.5°	978.9	953.7	947.9	898.6	853.8	780.4	773.5	727.6	723.0	751.7	778.1
30°	695.5	696.6	695.5	690.9	687.4	690.9	694.3	686.3	688.6	706.9	698.9
32.5°	678.3	678.3	673.7	671.4	661.0	657.6	651.9	636.9	639.2	653.0	649.6
35°	632.3	630.0	631.2	625.5	607.1	592.2	589.9	577.3	577.3	585.3	581.8
37.5°	563.5	560.0	573.8	572.7	557.7	552.0	546.3	538.2	538.2	545.1	538.2
40°	509.5	507.3	522.2	526.8	517.6	519.9	521.0	514.1	521.0	522.2	513.0
42.5°	452.2	451.0	463.6	462.5	454.5	453.3	452.2	447.6	459.1	468.2	461.3
45°	384.5	381.0	390.2	393.6	391.3	387.9	386.8	386.8	393.6	398.2	391.3
47.5°	339.7	340.8	347.7	355.8	358.1	360.4	359.2	356.9	361.5	362.7	356.9
50°	324.8	325.9	336.3	345.4	352.3	356.9	356.9	353.5	356.9	353.5	345.4
52.5°	331.7	331.7	345.4	359.2	370.7	378.7	379.9	375.3	375.3	366.1	353.5
55°	334.0	336.3	354.6	377.6	398.2	420.0	430.4	426.9	430.4	410.9	390.2
57.5°	312.2	317.9	336.3	363.8	391.3	425.8	447.6	449.9	448.7	431.5	406.3
60°	283.5	288.1	300.7	324.8	351.2	378.7	400.5	405.1	409.7	401.7	378.7
62.5°	264.0	266.3	276.6	293.8	312.2	327.1	335.1	334.0	338.6	336.3	319.0
65°	246.7	247.9	259.4	273.1	284.6	299.5	301.8	301.8	305.3	300.7	286.9
67.5°	228.4	228.4	237.6	250.2	264.0	276.6	280.0	281.2	285.8	281.2	270.8
70°	212.3	212.3	220.3	230.7	241.0	253.6	257.1	258.2	264.0	258.2	247.9
72.5°	197.4	197.4	204.3	213.5	222.6	233.0	236.4	237.6	242.2	236.4	228.4
75°	181.3	182.5	188.2	196.2	204.3	213.5	218.0	218.0	221.5	214.6	207.7
77.5°	165.3	166.4	172.1	179.0	185.9	195.1	197.4	198.5	202.0	195.1	188.2
80°	149.2	151.5	156.1	161.8	168.7	175.6	180.2	180.2	182.5	175.6	171.0
82.5°	134.3	136.6	140.0	144.6	151.5	158.4	163.0	163.0	164.1	158.4	152.6
85°	119.4	121.6	125.1	128.5	134.3	141.2	145.7	145.7	146.9	141.2	136.6
87.5°	105.6	107.9	110.2	113.6	118.2	125.1	129.7	129.7	129.7	125.1	120.5
90°	91.8	93.0	95.3	98.7	103.3	109.0	112.5	113.6	113.6	107.9	105.6
92.5°	81.5	81.5	83.8	86.1	90.7	95.3	98.7	99.8	99.8	96.4	93.0
95°	70.0	71.2	72.3	74.6	78.0	81.5	86.1	86.1	86.1	83.8	81.5
97.5°	62.0	60.8	62.0	63.1	66.6	68.9	72.3	73.4	73.4	71.2	70.0
100°	52.8	53.9	53.9	55.1	56.2	57.4	59.7	60.8	60.8	59.7	59.7
102.5°	49.3	48.2	48.2	48.2	48.2	48.2	49.3	49.3	50.5	49.3	48.2
105°	45.9	45.9	45.9	45.9	44.8	44.8	44.8	44.8	43.6	42.5	42.5
107.5°	44.8	44.8	44.8	44.8	43.6	43.6	42.5	42.5	41.3	40.2	39.0
110°	44.8	44.8	44.8	44.8	43.6	42.5	42.5	41.3	40.2	39.0	37.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	47.1	47.1	47.1	47.1	44.8	43.6	42.5	42.5	40.2	39.0	37.9
115°	51.6	51.6	50.5	50.5	49.3	47.1	45.9	44.8	43.6	41.3	40.2
117.5°	56.2	56.2	56.2	56.2	55.1	52.8	50.5	49.3	48.2	44.8	43.6
120°	64.3	64.3	64.3	65.4	63.1	60.8	58.5	56.2	55.1	51.6	49.3
122.5°	74.6	73.4	75.7	76.9	75.7	72.3	68.9	66.6	64.3	59.7	57.4
125°	84.9	84.9	87.2	90.7	90.7	87.2	82.6	79.2	76.9	70.0	66.6
127.5°	97.5	97.5	101.0	106.7	107.9	104.4	99.8	95.3	91.8	82.6	79.2
130°	109.0	109.0	115.9	122.8	126.2	122.8	118.2	112.5	107.9	97.5	91.8
132.5°	118.2	119.4	127.4	136.6	141.2	140.0	134.3	129.7	125.1	112.5	105.6
135°	127.4	128.5	137.7	149.2	154.9	154.9	150.3	144.6	138.9	125.1	117.1
137.5°	132.0	133.1	144.6	156.1	163.0	165.3	163.0	157.2	151.5	136.6	126.2
140°	132.0	134.3	145.7	157.2	164.1	167.6	167.6	161.8	156.1	142.3	132.0
142.5°	128.5	130.8	141.2	152.6	159.5	164.1	165.3	160.7	154.9	141.2	130.8
145°	121.6	122.8	133.1	143.5	150.3	156.1	158.4	154.9	148.0	136.6	126.2
147.5°	110.2	110.2	119.4	127.4	136.6	142.3	145.7	143.5	137.7	127.4	118.2
150°	94.1	94.1	101.0	109.0	117.1	123.9	127.4	127.4	121.6	113.6	104.4
152.5°	74.6	75.7	80.3	87.2	95.3	101.0	105.6	105.6	102.1	95.3	87.2
155°	57.4	57.4	60.8	65.4	72.3	78.0	81.5	81.5	79.2	73.4	68.9
157.5°	41.3	41.3	43.6	48.2	52.8	57.4	60.8	60.8	58.5	55.1	51.6
160°	27.5	27.5	28.7	32.1	35.6	39.0	41.3	42.5	41.3	39.0	35.6
162.5°	14.9	14.9	16.1	18.4	20.7	24.1	25.2	26.4	26.4	24.1	23.0
165°	4.6	4.6	4.6	6.9	8.0	10.3	11.5	12.6	12.6	12.6	11.5
167.5°	1.1	1.1	1.1	1.1	1.1	1.1	2.3	3.4	3.4	3.4	3.4
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	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

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	2419.2	2419.2	2419.2	2419.2	2419.2	2419.2	2419.2	2419.2	2419.2	2419.2	2419.2
2.5°	2260.8	2345.8	2439.9	2536.3	2635.0	2727.9	2806.0	2867.9	2901.2	2909.2	2904.7
5°	2110.5	2210.3	2320.5	2433.0	2561.5	2709.6	2845.0	2942.5	2993.0	3001.1	3003.4
7.5°	1895.9	1983.1	2091.0	2220.7	2382.5	2540.9	2749.7	2895.5	2977.0	2998.8	2998.8
10°	1669.8	1746.7	1814.4	1928.0	2069.2	2217.2	2395.1	2529.4	2612.0	2638.4	2615.5
12.5°	1542.4	1575.7	1621.6	1705.4	1793.7	1906.2	2060.0	2147.2	2201.2	2217.2	2203.5
15°	1460.9	1478.1	1497.7	1533.2	1595.2	1665.2	1755.9	1809.8	1843.1	1862.6	1855.7
17.5°	1421.9	1421.9	1418.5	1426.5	1442.6	1474.7	1536.7	1556.2	1571.1	1579.1	1574.6
20°	1362.2	1343.9	1329.0	1306.0	1296.8	1295.7	1310.6	1331.3	1330.1	1331.3	1322.1
22.5°	1302.6	1264.7	1228.0	1193.5	1154.5	1135.0	1121.2	1128.1	1122.4	1128.1	1122.4
25°	1273.9	1197.0	1123.5	1039.8	969.7	915.8	880.2	858.4	821.7	835.5	822.9
27.5°	790.7	758.6	727.6	665.6	607.1	586.4	569.2	560.0	553.2	556.6	554.3
30°	685.1	658.7	634.6	602.5	557.7	530.2	509.5	491.2	485.4	486.6	485.4
32.5°	635.8	615.1	585.3	552.0	511.8	477.4	453.3	436.1	426.9	432.7	428.1
35°	569.2	548.6	523.3	492.3	457.9	426.9	404.0	387.9	377.6	379.9	378.7
37.5°	525.6	506.1	484.3	451.0	421.2	391.3	368.4	352.3	342.0	344.3	342.0
40°	500.4	478.6	455.6	425.8	395.9	364.9	343.1	324.8	314.5	314.5	314.5
42.5°	448.7	431.5	412.0	381.0	354.6	328.2	306.4	292.6	281.2	282.3	280.0
45°	383.3	370.7	355.8	335.1	313.3	292.6	274.3	264.0	254.8	255.9	254.8
47.5°	350.0	338.6	321.3	305.3	285.8	267.4	251.3	238.7	231.8	233.0	230.7
50°	337.4	323.6	304.1	282.3	264.0	245.6	229.5	220.3	213.5	214.6	213.5
52.5°	342.0	320.2	292.6	266.3	244.4	226.1	213.5	203.1	198.5	199.7	197.4
55°	371.8	334.0	292.6	259.4	231.8	211.2	198.5	187.1	182.5	182.5	182.5
57.5°	382.2	340.8	289.2	251.3	221.5	200.8	185.9	174.4	169.8	169.8	169.8
60°	358.1	322.5	275.4	239.9	212.3	192.8	180.2	172.1	168.7	168.7	168.7
62.5°	306.4	283.5	247.9	219.2	198.5	181.3	168.7	158.4	154.9	153.8	153.8
65°	277.7	255.9	226.1	202.0	183.6	169.8	158.4	150.3	145.7	145.7	145.7
67.5°	259.4	238.7	211.2	188.2	171.0	156.1	145.7	137.7	135.4	134.3	134.3
70°	238.7	219.2	191.7	171.0	154.9	142.3	132.0	125.1	122.8	122.8	121.6
72.5°	218.0	199.7	173.3	153.8	138.9	127.4	118.2	112.5	110.2	109.0	109.0
75°	198.5	180.2	156.1	137.7	123.9	113.6	105.6	99.8	97.5	97.5	97.5
77.5°	180.2	163.0	140.0	122.8	111.3	101.0	94.1	89.5	87.2	87.2	87.2
80°	163.0	145.7	125.1	109.0	97.5	89.5	83.8	79.2	76.9	78.0	76.9
82.5°	144.6	130.8	111.3	96.4	87.2	79.2	73.4	70.0	67.7	68.9	67.7
85°	129.7	115.9	97.5	84.9	75.7	68.9	64.3	60.8	58.5	59.7	58.5
87.5°	114.8	102.1	86.1	74.6	66.6	60.8	55.1	52.8	51.6	51.6	50.5
90°	98.7	87.2	73.4	64.3	56.2	51.6	47.1	44.8	43.6	42.5	42.5
92.5°	87.2	78.0	65.4	57.4	50.5	47.1	42.5	40.2	39.0	39.0	39.0
95°	76.9	68.9	58.5	51.6	47.1	42.5	39.0	37.9	36.7	36.7	35.6
97.5°	66.6	59.7	52.8	47.1	42.5	39.0	35.6	34.4	33.3	33.3	33.3
100°	56.2	51.6	45.9	41.3	37.9	35.6	32.1	31.0	29.8	29.8	29.8
102.5°	47.1	43.6	39.0	35.6	33.3	31.0	28.7	27.5	26.4	26.4	26.4
105°	41.3	37.9	35.6	32.1	29.8	27.5	26.4	24.1	23.0	23.0	23.0
107.5°	37.9	35.6	33.3	31.0	28.7	26.4	24.1	21.8	20.7	20.7	20.7
110°	36.7	34.4	32.1	29.8	27.5	25.2	24.1	20.7	19.5	19.5	19.5



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	36.7	35.6	33.3	31.0	28.7	26.4	24.1	19.5	18.4	18.4	18.4
115°	39.0	36.7	34.4	32.1	29.8	27.5	25.2	19.5	18.4	18.4	18.4
117.5°	42.5	40.2	36.7	34.4	32.1	28.7	25.2	20.7	18.4	18.4	18.4
120°	48.2	44.8	41.3	37.9	34.4	31.0	26.4	20.7	17.2	18.4	18.4
122.5°	55.1	51.6	45.9	41.3	37.9	33.3	27.5	21.8	17.2	18.4	18.4
125°	64.3	59.7	52.8	47.1	41.3	35.6	28.7	21.8	17.2	18.4	19.5
127.5°	74.6	67.7	59.7	51.6	44.8	37.9	31.0	23.0	17.2	19.5	19.5
130°	86.1	78.0	67.7	57.4	49.3	40.2	32.1	23.0	18.4	18.4	18.4
132.5°	98.7	87.2	73.4	62.0	51.6	41.3	32.1	23.0	18.4	18.4	18.4
135°	107.9	94.1	79.2	65.4	53.9	42.5	33.3	23.0	17.2	17.2	17.2
137.5°	115.9	99.8	83.8	67.7	55.1	42.5	32.1	21.8	17.2	16.1	16.1
140°	120.5	102.1	83.8	67.7	53.9	41.3	29.8	20.7	14.9	14.9	14.9
142.5°	120.5	101.0	82.6	65.4	50.5	39.0	28.7	18.4	13.8	13.8	13.8
145°	115.9	96.4	78.0	62.0	47.1	35.6	25.2	17.2	12.6	12.6	12.6
147.5°	107.9	88.4	71.2	56.2	41.3	31.0	21.8	13.8	10.3	10.3	10.3
150°	96.4	78.0	62.0	48.2	35.6	25.2	18.4	11.5	8.0	8.0	8.0
152.5°	80.3	65.4	50.5	40.2	28.7	20.7	13.8	9.2	6.9	6.9	6.9
155°	63.1	51.6	40.2	31.0	21.8	14.9	10.3	6.9	4.6	4.6	4.6
157.5°	48.2	39.0	29.8	23.0	16.1	11.5	8.0	4.6	3.4	3.4	3.4
160°	33.3	26.4	20.7	16.1	10.3	8.0	5.7	3.4	2.3	2.3	2.3
162.5°	21.8	17.2	12.6	9.2	6.9	4.6	3.4	2.3	1.1	1.1	1.1
165°	10.3	8.0	6.9	4.6	3.4	2.3	1.1	1.1	0.0	0.0	0.0
167.5°	3.4	2.3	2.3	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	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)