

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: P691490

Luminaire Tested: **CRTK2-C016-D-U-T2-7050-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-7)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C016-D-U-T2-7050-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K LED WITH TYPE II OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4940 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B2 - U4 - G2

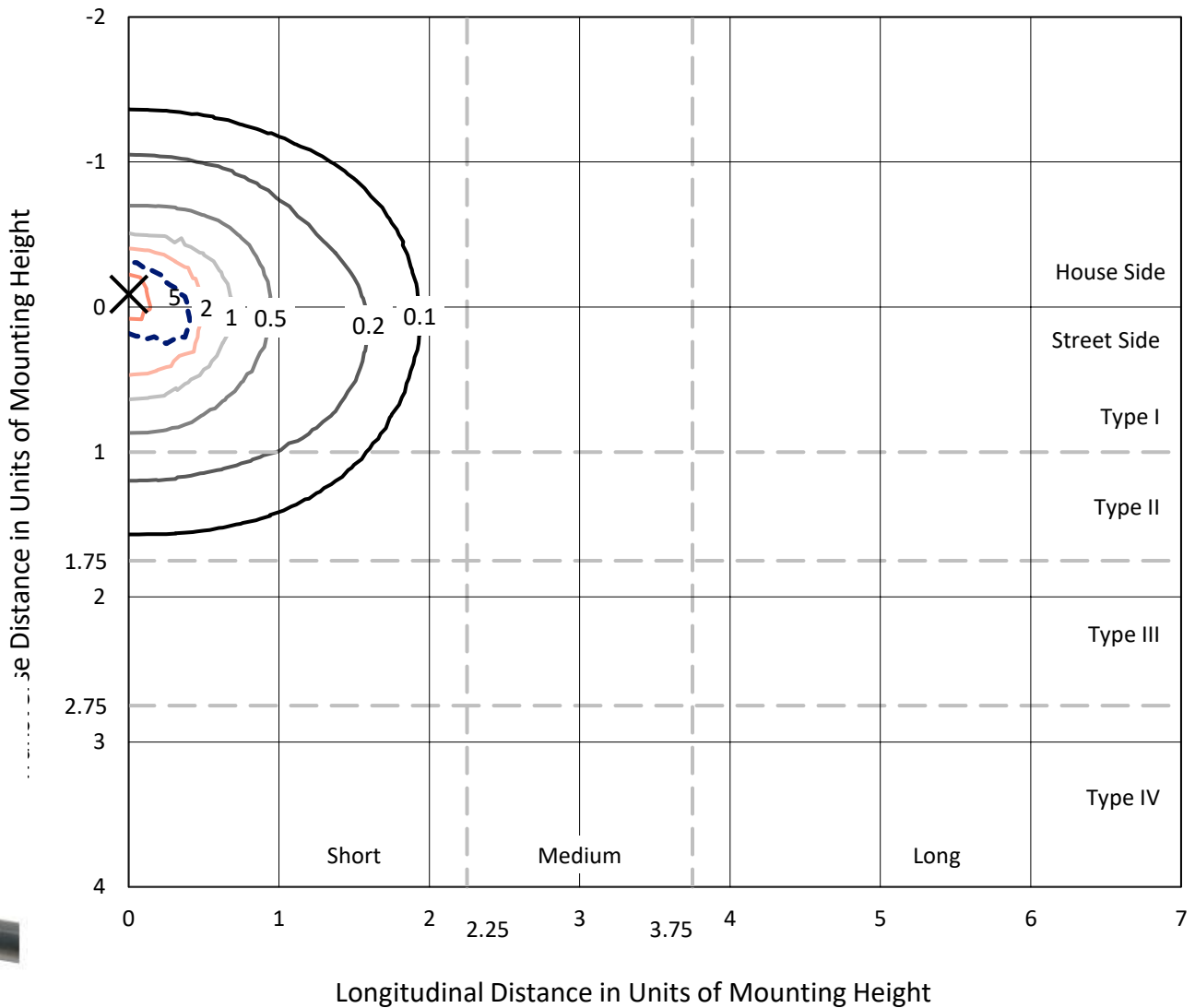
Input Watts (W): 41.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

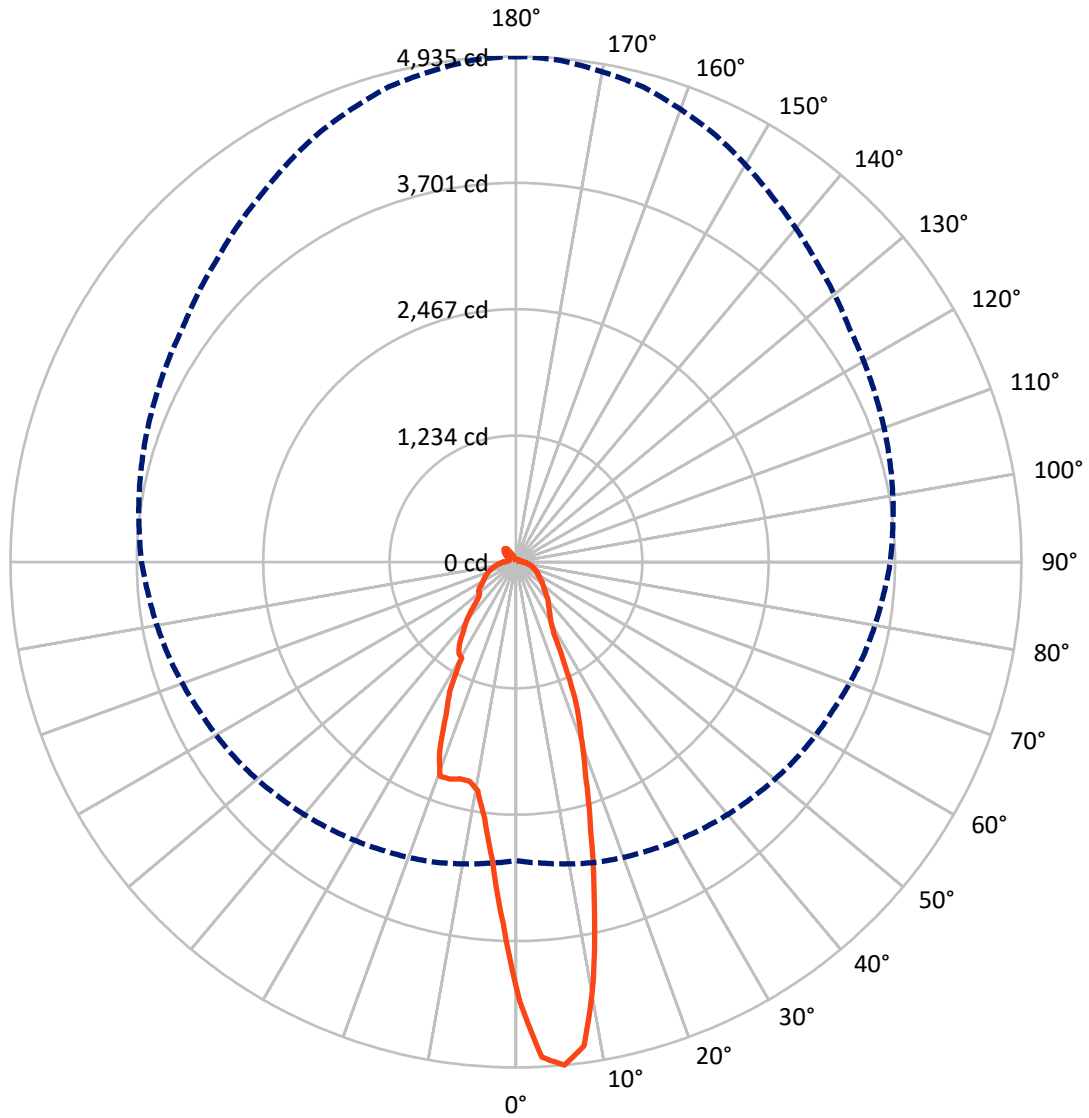
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 179-Deg Lateral - - - Horizontal Cone Through 5-Deg Vertical

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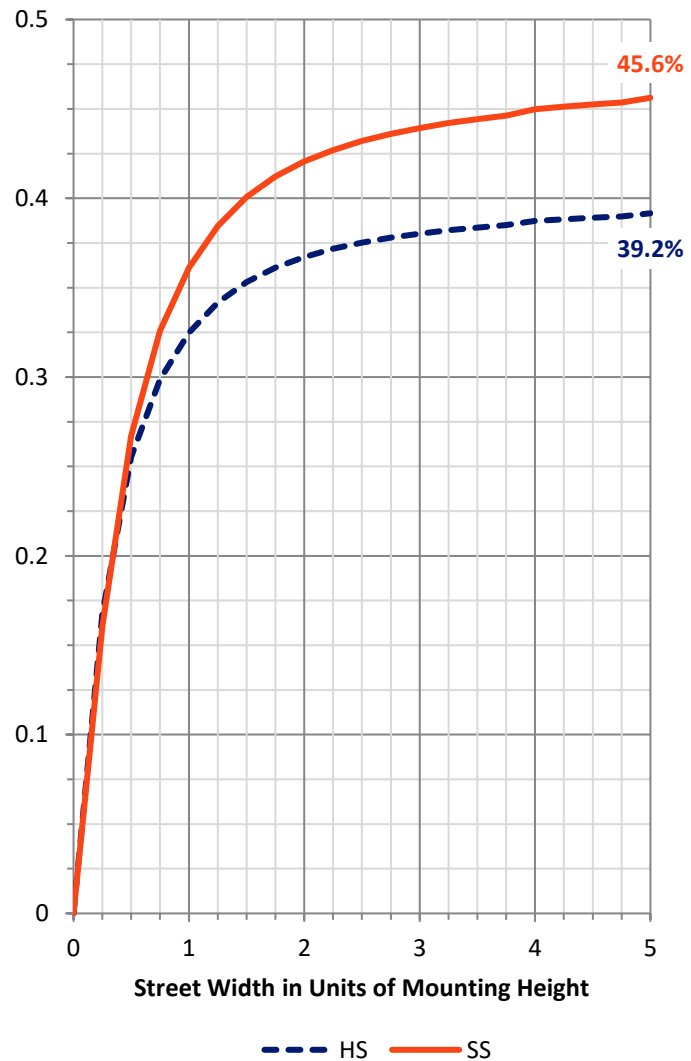
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1987.9	241.7	2229.6
	% Fixture	40.2	4.9	45.1
Street Side	Lumens	2307.3	403.0	2710.4
	% Fixture	46.7	8.2	54.9
Total	Lumens	4295.3	644.8	4940.0
	% Fixture	86.9	13.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.1	6.8
10°-20°	715.0	14.5
20°-30°	776.8	15.7
30°-40°	574.9	11.6
40°-50°	481.5	9.7
50°-60°	484.1	9.8
60°-70°	412.1	8.3
70°-80°	307.8	6.2
80°-90°	207.8	4.2
90°-100°	124.2	2.5
100°-110°	71.8	1.5
110°-120°	66.1	1.3
120°-130°	95.5	1.9
130°-140°	130.7	2.6
140°-150°	107.7	2.2
150°-160°	43.4	0.9
160°-170°	5.3	0.1
170°-180°	0.0	0.0
0°-90°	4295.3	86.9
0°-180°	4940.0	100.0



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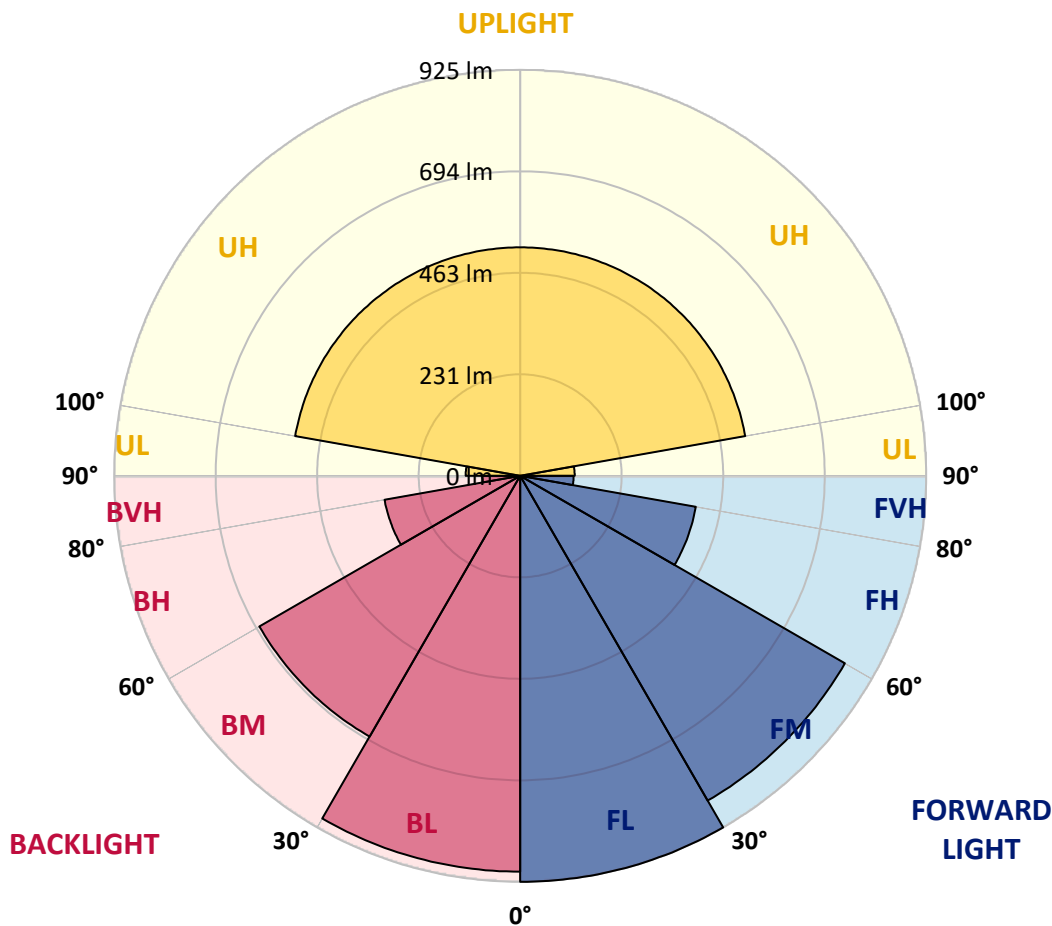
CATALOG NUMBER: CRTK2-C016-D-U-T2-7050-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	925.0	18.7			
FM (30°-60°)	854.3	17.3			
FH (60°-80°)	406.3	8.2			G0/660
FVH (80°-90°)	121.7	2.5			G2/225
BL (0°-30°)	901.9	18.3	B2/1000		
BM (30°-60°)	686.2	13.9	B1/1000		
BH (60°-80°)	313.7	6.3	B1/500		G1/500
BVH (80°-90°)	86.1	1.7			G1/100
UL (90°-100°)	124.2	2.5		U3/500	
UH (100°-180°)	520.5	10.5		U4/1000	

BUG Rating: B2-U4-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4286.7	4286.7	4286.7	4286.7	4286.7	4286.7	4286.7	4286.7	4286.7	4286.7	4286.7
2.5°	3534.0	3553.8	3597.3	3619.1	3640.9	3668.7	3710.3	3741.9	3815.2	3882.6	3910.3
5°	2915.9	2951.6	3034.8	3102.1	3177.4	3256.6	3341.8	3417.1	3514.1	3603.3	3654.8
7.5°	2505.9	2535.6	2634.6	2765.4	2898.1	3009.0	3096.2	3153.6	3197.2	3232.9	3270.5
10°	2256.3	2282.0	2381.1	2497.9	2610.8	2713.9	2787.1	2842.6	2858.5	2894.1	2911.9
12.5°	2184.9	2196.8	2266.2	2347.4	2416.7	2517.7	2604.9	2664.3	2690.1	2721.8	2731.7
15°	2186.9	2186.9	2226.5	2278.1	2341.4	2418.7	2515.8	2587.1	2624.7	2642.5	2640.6
17.5°	2216.6	2214.7	2232.5	2274.1	2327.6	2404.8	2503.9	2577.2	2620.8	2626.7	2620.8
20°	2216.6	2218.6	2224.6	2272.1	2323.6	2392.9	2494.0	2555.4	2589.1	2571.2	2551.4
22.5°	1990.8	1988.8	2040.3	2141.4	2280.0	2424.6	2515.8	2591.0	2599.0	2533.6	2480.1
25°	1644.2	1630.3	1660.0	1705.6	1798.7	1967.0	2157.2	2442.5	2612.8	2575.2	2494.0
27.5°	1426.3	1408.4	1434.2	1414.4	1404.5	1392.6	1380.7	1347.0	1368.8	1388.6	1475.8
30°	1075.6	1079.6	1085.5	1097.4	1121.2	1168.7	1218.3	1248.0	1273.7	1325.2	1319.3
32.5°	1051.9	1049.9	1051.9	1063.8	1075.6	1105.4	1135.1	1150.9	1170.7	1220.2	1208.4
35°	972.6	968.7	982.5	988.5	986.5	994.4	1024.1	1042.0	1059.8	1091.5	1079.6
37.5°	855.8	859.7	889.4	905.3	911.2	929.0	952.8	968.7	990.5	1014.2	1008.3
40°	768.6	766.6	798.3	820.1	834.0	861.7	897.4	921.1	956.8	976.6	962.7
42.5°	661.6	669.5	693.3	715.1	719.1	732.9	764.6	792.4	835.9	865.7	857.7
45°	556.6	562.6	582.4	600.2	614.1	631.9	655.7	679.5	715.1	738.9	736.9
47.5°	491.3	497.2	513.1	534.8	554.7	580.4	604.2	628.0	661.6	679.5	673.5
50°	465.5	469.5	487.3	511.1	540.8	572.5	604.2	629.9	661.6	673.5	663.6
52.5°	463.5	463.5	485.3	521.0	562.6	606.2	647.8	683.4	713.1	713.1	693.3
55°	435.8	439.8	467.5	515.0	578.4	649.7	723.0	790.4	830.0	822.1	784.4
57.5°	396.2	398.2	427.9	473.4	540.8	628.0	727.0	812.2	859.7	869.6	830.0
60°	372.4	374.4	394.2	437.8	495.2	564.6	655.7	723.0	770.6	800.3	768.6
62.5°	352.6	352.6	372.4	402.1	449.7	501.2	552.7	598.2	635.9	657.7	639.8
65°	330.8	330.8	344.7	372.4	410.0	459.6	499.2	532.9	566.5	582.4	566.5
67.5°	309.0	309.0	322.9	348.6	382.3	423.9	463.5	495.2	528.9	540.8	528.9
70°	287.2	287.2	301.1	322.9	354.6	394.2	423.9	457.6	489.3	497.2	487.3
72.5°	265.4	265.4	279.3	299.1	326.9	364.5	392.2	418.0	447.7	453.6	443.7
75°	245.6	245.6	255.5	275.3	301.1	334.8	362.5	386.3	410.0	410.0	402.1
77.5°	223.8	225.8	233.7	251.6	275.3	307.0	332.8	354.6	374.4	374.4	364.5
80°	202.1	204.0	212.0	227.8	249.6	279.3	303.1	322.9	340.7	340.7	330.8
82.5°	180.3	182.2	190.2	204.0	223.8	251.6	275.3	295.2	311.0	309.0	299.1
85°	160.5	162.4	168.4	180.3	198.1	225.8	247.6	265.4	279.3	277.3	269.4
87.5°	140.6	142.6	148.6	158.5	174.3	200.1	221.9	237.7	249.6	247.6	239.7
90°	122.8	122.8	128.8	138.7	152.5	174.3	194.1	208.0	219.9	215.9	208.0
92.5°	107.0	109.0	112.9	120.8	132.7	152.5	170.4	182.2	194.1	192.1	184.2
95°	95.1	95.1	99.0	105.0	114.9	130.7	148.6	158.5	166.4	166.4	160.5
97.5°	83.2	85.2	87.2	91.1	99.0	110.9	124.8	134.7	140.6	140.6	136.7
100°	75.3	77.3	77.3	81.2	85.2	93.1	103.0	110.9	116.9	116.9	114.9
102.5°	71.3	71.3	71.3	73.3	75.3	79.2	85.2	89.1	93.1	95.1	93.1
105°	67.4	67.4	67.4	69.3	69.3	73.3	75.3	79.2	81.2	81.2	79.2
107.5°	65.4	65.4	67.4	67.4	67.4	69.3	73.3	73.3	75.3	73.3	73.3
110°	67.4	67.4	67.4	67.4	67.4	69.3	71.3	71.3	71.3	71.3	69.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	69.3	69.3	69.3	69.3	71.3	71.3	71.3	73.3	73.3	71.3	71.3
115°	75.3	75.3	75.3	75.3	75.3	77.3	77.3	77.3	77.3	75.3	73.3
117.5°	81.2	81.2	81.2	83.2	83.2	85.2	83.2	85.2	83.2	81.2	81.2
120°	91.1	91.1	93.1	95.1	97.1	97.1	95.1	97.1	97.1	93.1	91.1
122.5°	103.0	103.0	105.0	110.9	112.9	114.9	112.9	112.9	112.9	109.0	107.0
125°	114.9	116.9	120.8	128.8	134.7	138.7	134.7	136.7	136.7	130.7	128.8
127.5°	128.8	130.7	138.7	150.5	160.5	164.4	162.4	164.4	166.4	156.5	152.5
130°	142.6	142.6	154.5	172.3	186.2	192.1	194.1	196.1	198.1	188.2	180.3
132.5°	154.5	154.5	170.4	192.1	210.0	219.9	223.8	227.8	231.8	217.9	208.0
135°	162.4	164.4	184.2	210.0	231.8	245.6	251.6	255.5	261.5	245.6	233.7
137.5°	168.4	172.3	192.1	219.9	243.7	263.5	275.3	281.3	285.3	269.4	253.6
140°	170.4	172.3	194.1	221.9	245.6	267.4	285.3	295.2	297.1	281.3	265.4
142.5°	164.4	168.4	188.2	215.9	239.7	263.5	283.3	293.2	295.2	281.3	265.4
145°	156.5	158.5	176.3	202.1	225.8	251.6	273.4	283.3	283.3	271.4	255.5
147.5°	142.6	144.6	160.5	182.2	206.0	231.8	253.6	263.5	265.4	253.6	239.7
150°	122.8	124.8	136.7	154.5	178.3	204.0	223.8	235.7	235.7	223.8	213.9
152.5°	99.0	101.0	110.9	124.8	144.6	168.4	186.2	198.1	198.1	190.2	178.3
155°	77.3	77.3	85.2	97.1	110.9	128.8	142.6	152.5	154.5	146.6	138.7
157.5°	55.5	55.5	61.4	71.3	83.2	97.1	107.0	114.9	114.9	109.0	105.0
160°	37.6	37.6	41.6	47.5	55.5	65.4	73.3	81.2	81.2	77.3	73.3
162.5°	19.8	19.8	23.8	27.7	33.7	41.6	45.6	51.5	51.5	49.5	47.5
165°	5.9	5.9	7.9	9.9	13.9	17.8	19.8	23.8	25.8	23.8	21.8
167.5°	0.0	0.0	2.0	2.0	2.0	2.0	4.0	5.9	5.9	5.9	5.9
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



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	4286.7	4286.7	4286.7	4286.7	4286.7	4286.7	4286.7	4286.7	4286.7	4286.7	4286.7
2.5°	3940.0	4064.8	4177.8	4294.6	4439.2	4566.0	4702.7	4799.8	4841.4	4841.4	4857.2
5°	3692.4	3779.6	3870.7	3973.7	4146.1	4358.0	4601.7	4801.7	4916.6	4934.5	4932.5
7.5°	3282.4	3341.8	3434.9	3549.8	3708.3	3898.4	4211.4	4524.4	4732.4	4770.0	4756.2
10°	2921.8	2977.3	3032.8	3076.4	3189.3	3339.8	3569.6	3874.7	4114.4	4152.0	4122.3
12.5°	2737.6	2755.5	2753.5	2779.2	2824.8	2900.1	3016.9	3193.2	3357.7	3393.3	3367.6
15°	2640.6	2614.8	2575.2	2529.6	2525.7	2537.6	2567.3	2638.6	2707.9	2737.6	2717.8
17.5°	2600.9	2539.5	2458.3	2369.2	2309.7	2254.3	2216.6	2192.9	2202.8	2204.8	2188.9
20°	2507.8	2434.5	2303.8	2177.0	2081.9	1984.9	1901.7	1840.3	1830.4	1820.5	1808.6
22.5°	2402.9	2278.1	2121.6	1967.0	1826.4	1697.6	1604.5	1531.2	1503.5	1513.4	1507.5
25°	2381.1	2173.1	1982.9	1733.3	1555.0	1410.4	1236.1	1117.2	1063.8	1093.5	1073.7
27.5°	1428.2	1434.2	1327.2	1176.7	1047.9	962.7	885.5	822.1	786.4	786.4	790.4
30°	1293.5	1236.1	1164.8	1071.7	958.8	873.6	788.4	719.1	681.4	671.5	675.5
32.5°	1182.6	1143.0	1075.6	986.5	883.5	796.3	707.2	643.8	608.1	606.2	604.2
35°	1063.8	1022.2	966.7	889.4	800.3	719.1	641.8	586.4	554.7	556.6	556.6
37.5°	982.5	944.9	895.4	822.1	740.9	659.6	590.3	538.8	513.1	513.1	511.1
40°	940.9	897.4	843.9	776.5	701.2	616.1	550.7	501.2	479.4	479.4	477.4
42.5°	849.8	812.2	776.5	707.2	631.9	562.6	501.2	457.6	435.8	435.8	435.8
45°	721.1	699.3	671.5	624.0	562.6	505.1	453.6	412.0	394.2	392.2	392.2
47.5°	665.6	641.8	608.1	564.6	515.0	461.6	412.0	382.3	364.5	364.5	364.5
50°	649.7	622.0	576.4	524.9	473.4	425.9	382.3	354.6	338.7	338.7	340.7
52.5°	671.5	626.0	564.6	501.2	447.7	394.2	356.6	328.8	316.9	316.9	315.0
55°	746.8	661.6	572.5	495.2	427.9	370.4	330.8	301.1	287.2	287.2	287.2
57.5°	788.4	687.4	578.4	487.3	410.0	352.6	311.0	279.3	265.4	265.4	265.4
60°	740.9	657.7	554.7	471.5	396.2	336.8	293.2	263.5	249.6	247.6	245.6
62.5°	620.0	568.5	495.2	425.9	366.5	315.0	279.3	249.6	235.7	235.7	233.7
65°	552.7	509.1	445.7	386.3	336.8	293.2	259.5	235.7	221.9	219.9	219.9
67.5°	515.0	475.4	412.0	356.6	311.0	271.4	239.7	217.9	208.0	204.0	204.0
70°	473.4	429.9	374.4	324.9	283.3	247.6	221.9	200.1	190.2	188.2	186.2
72.5°	431.8	392.2	340.7	293.2	255.5	225.8	202.1	182.2	172.3	170.4	170.4
75°	388.3	350.6	301.1	261.5	229.8	202.1	180.3	164.4	156.5	154.5	152.5
77.5°	352.6	318.9	271.4	233.7	204.0	182.2	162.4	148.6	140.6	140.6	138.7
80°	318.9	287.2	241.7	208.0	182.2	160.5	144.6	132.7	126.8	124.8	124.8
82.5°	287.2	255.5	213.9	184.2	160.5	142.6	126.8	116.9	110.9	110.9	110.9
85°	257.5	227.8	190.2	162.4	140.6	124.8	110.9	101.0	97.1	95.1	97.1
87.5°	227.8	200.1	168.4	142.6	122.8	107.0	95.1	87.2	83.2	83.2	83.2
90°	200.1	174.3	144.6	120.8	105.0	91.1	81.2	73.3	71.3	69.3	69.3
92.5°	176.3	154.5	128.8	109.0	93.1	83.2	73.3	67.4	63.4	63.4	63.4
95°	154.5	134.7	114.9	97.1	85.2	75.3	67.4	61.4	59.4	59.4	59.4
97.5°	132.7	116.9	101.0	87.2	77.3	69.3	61.4	57.4	55.5	53.5	55.5
100°	110.9	99.0	87.2	77.3	69.3	61.4	55.5	51.5	49.5	49.5	49.5
102.5°	89.1	83.2	73.3	65.4	59.4	55.5	49.5	45.6	43.6	43.6	43.6
105°	77.3	71.3	65.4	59.4	55.5	49.5	45.6	41.6	39.6	39.6	39.6
107.5°	71.3	67.4	61.4	57.4	51.5	47.5	43.6	37.6	35.7	35.7	35.7
110°	69.3	65.4	61.4	55.5	51.5	47.5	43.6	35.7	33.7	33.7	33.7



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	69.3	65.4	61.4	57.4	53.5	47.5	43.6	35.7	31.7	31.7	31.7
115°	73.3	69.3	65.4	61.4	55.5	49.5	45.6	35.7	31.7	31.7	31.7
117.5°	79.2	75.3	71.3	65.4	59.4	53.5	45.6	35.7	33.7	33.7	33.7
120°	89.1	85.2	79.2	73.3	65.4	57.4	49.5	37.6	31.7	33.7	33.7
122.5°	103.0	99.0	91.1	81.2	73.3	63.4	51.5	39.6	29.7	33.7	33.7
125°	122.8	116.9	105.0	93.1	81.2	69.3	55.5	41.6	31.7	35.7	35.7
127.5°	144.6	136.7	120.8	105.0	91.1	75.3	59.4	43.6	33.7	35.7	35.7
130°	170.4	156.5	136.7	116.9	99.0	81.2	63.4	45.6	35.7	35.7	35.7
132.5°	196.1	176.3	150.5	128.8	107.0	85.2	65.4	45.6	35.7	35.7	35.7
135°	217.9	194.1	164.4	136.7	110.9	87.2	67.4	45.6	35.7	35.7	35.7
137.5°	237.7	206.0	172.3	140.6	112.9	87.2	65.4	45.6	33.7	33.7	33.7
140°	247.6	212.0	176.3	140.6	110.9	85.2	61.4	41.6	31.7	31.7	31.7
142.5°	247.6	210.0	172.3	136.7	107.0	81.2	57.4	39.6	27.7	29.7	29.7
145°	239.7	202.1	164.4	128.8	99.0	73.3	51.5	33.7	25.8	25.8	25.8
147.5°	221.9	186.2	150.5	116.9	89.1	63.4	45.6	29.7	21.8	19.8	19.8
150°	198.1	164.4	130.7	101.0	75.3	53.5	37.6	23.8	17.8	17.8	17.8
152.5°	166.4	136.7	109.0	83.2	59.4	41.6	27.7	17.8	13.9	13.9	13.9
155°	130.7	107.0	85.2	63.4	45.6	31.7	21.8	13.9	9.9	9.9	9.9
157.5°	99.0	81.2	63.4	45.6	33.7	23.8	15.8	9.9	7.9	7.9	7.9
160°	69.3	55.5	43.6	31.7	21.8	15.8	9.9	5.9	4.0	4.0	4.0
162.5°	43.6	35.7	27.7	17.8	13.9	9.9	5.9	4.0	2.0	2.0	2.0
165°	19.8	17.8	11.9	7.9	5.9	4.0	2.0	2.0	0.0	0.0	0.0
167.5°	5.9	4.0	4.0	2.0	2.0	0.0	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)