

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: P691406

Luminaire Tested: **CRTK2-C016-5TLD-U-T2-8027-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691406
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-C016-5TLD-U-T2-8027-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K LED WITH TYPE II OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4505 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B2 - U3 - G2

Input Watts (W): 42.8
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

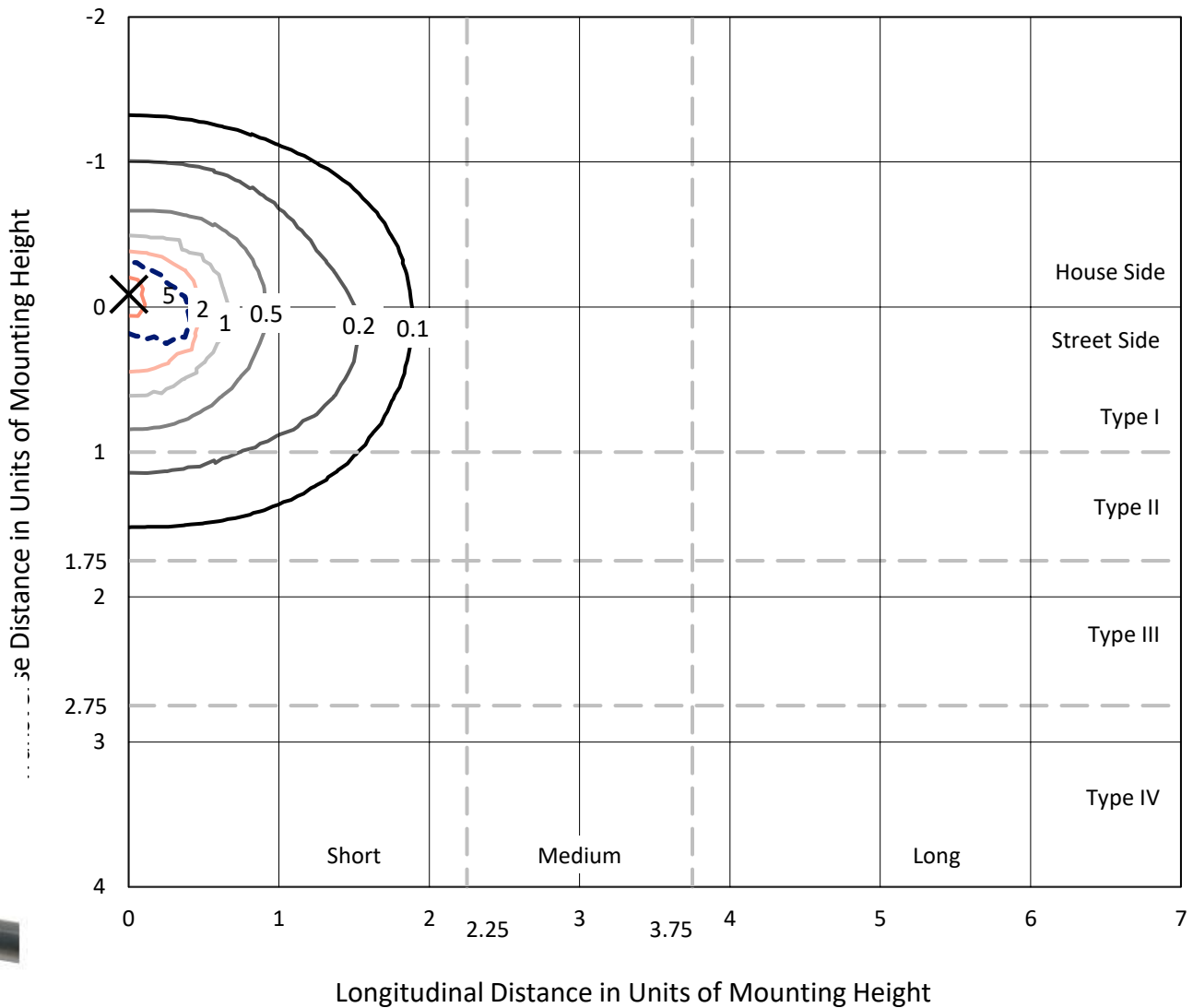


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

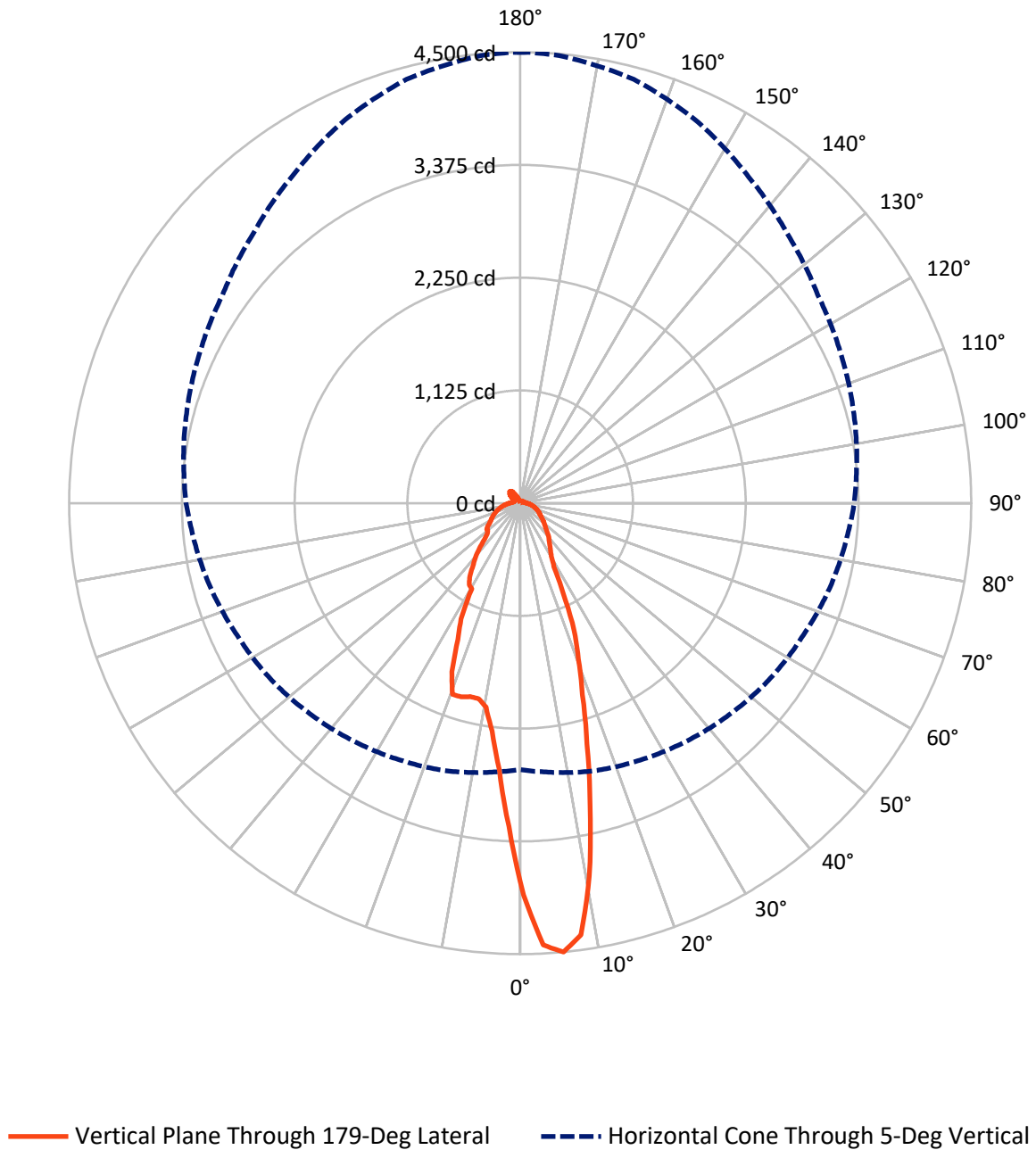


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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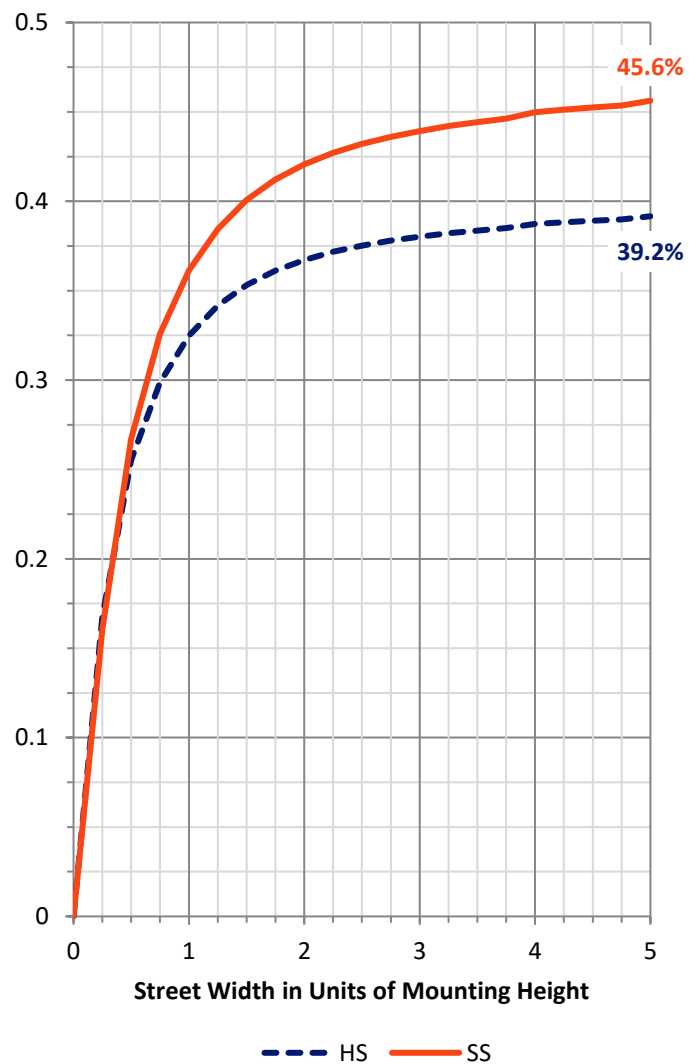
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1812.9	220.4	2033.3
	% Fixture	40.2	4.9	45.1
Street Side	Lumens	2104.2	367.5	2471.7
	% Fixture	46.7	8.2	54.9
Total	Lumens	3917.0	587.9	4505.0
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.6	6.8
10°-20°	652.1	14.5
20°-30°	708.4	15.7
30°-40°	524.3	11.6
40°-50°	439.1	9.7
50°-60°	441.5	9.8
60°-70°	375.8	8.3
70°-80°	280.7	6.2
80°-90°	189.5	4.2
90°-100°	113.3	2.5
100°-110°	65.4	1.5
110°-120°	60.2	1.3
120°-130°	87.1	1.9
130°-140°	119.2	2.6
140°-150°	98.2	2.2
150°-160°	39.6	0.9
160°-170°	4.9	0.1
170°-180°	0.0	0.0
0°-90°	3917.0	86.9
0°-180°	4505.0	100.0

Coefficient of Utilization



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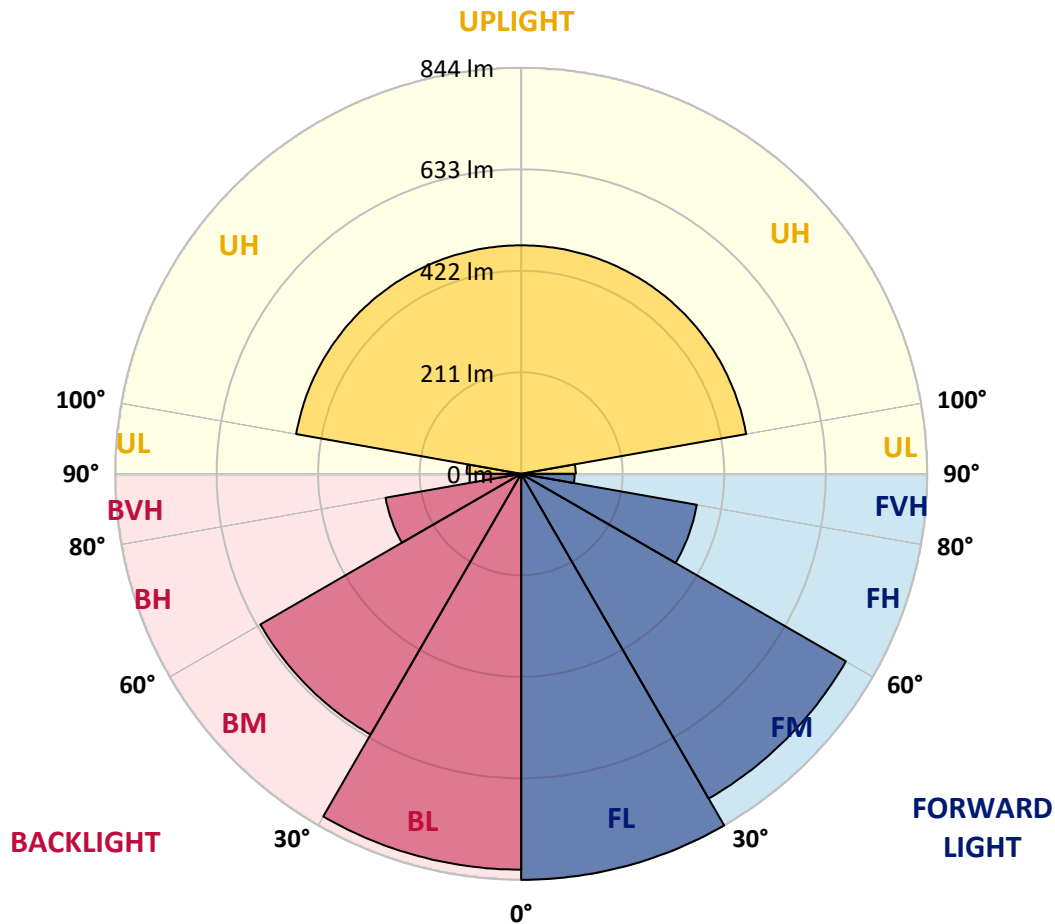
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	843.6	18.7			
FM	(30°-60°)	779.1	17.3			
FH	(60°-80°)	370.5	8.2			G0/660
FVH	(80°-90°)	111.0	2.5			G2/225
BL	(0°-30°)	822.5	18.3	B2/1000		
BM	(30°-60°)	625.8	13.9	B1/1000		
BH	(60°-80°)	286.0	6.3	B1/500		G1/500
BVH	(80°-90°)	78.6	1.7			G1/100
UL	(90°-100°)	113.3	2.5		U3/500	
UH	(100°-180°)	474.7	10.5		U3/500	

BUG Rating: B2-U3-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2
2.5°	3222.8	3240.8	3280.6	3300.4	3320.3	3345.6	3383.5	3412.4	3479.3	3540.7	3566.0
5°	2659.1	2691.7	2767.5	2829.0	2897.6	2969.9	3047.5	3116.2	3204.7	3286.0	3333.0
7.5°	2285.2	2312.3	2402.6	2521.8	2642.9	2744.0	2823.5	2875.9	2915.7	2948.2	2982.5
10°	2057.6	2081.1	2171.4	2278.0	2380.9	2474.9	2541.7	2592.3	2606.8	2639.3	2655.5
12.5°	1992.6	2003.4	2066.6	2140.7	2203.9	2296.0	2375.5	2429.7	2453.2	2482.1	2491.1
15°	1994.4	1994.4	2030.5	2077.5	2135.3	2205.7	2294.2	2359.3	2393.6	2409.8	2408.0
17.5°	2021.5	2019.6	2035.9	2073.8	2122.6	2193.1	2283.4	2350.2	2390.0	2395.4	2390.0
20°	2021.5	2023.3	2028.7	2072.0	2119.0	2182.2	2274.4	2330.4	2361.1	2344.8	2326.7
22.5°	1815.5	1813.7	1860.7	1952.8	2079.3	2211.1	2294.2	2362.9	2370.1	2310.5	2261.7
25°	1499.4	1486.7	1513.8	1555.4	1640.3	1793.8	1967.3	2227.4	2382.8	2348.4	2274.4
27.5°	1300.7	1284.4	1307.9	1289.8	1280.8	1270.0	1259.1	1228.4	1248.3	1266.3	1345.8
30°	980.9	984.5	990.0	1000.8	1022.5	1065.8	1111.0	1138.1	1161.6	1208.5	1203.1
32.5°	959.2	957.4	959.2	970.1	980.9	1008.0	1035.1	1049.6	1067.6	1112.8	1102.0
35°	887.0	883.4	896.0	901.4	899.6	906.9	934.0	950.2	966.5	995.4	984.5
37.5°	780.4	784.0	811.1	825.6	831.0	847.2	868.9	883.4	903.2	924.9	919.5
40°	700.9	699.1	728.0	747.9	760.5	785.8	818.3	840.0	872.5	890.6	878.0
42.5°	603.4	610.6	632.3	652.1	655.8	668.4	697.3	722.6	762.3	789.4	782.2
45°	507.6	513.0	531.1	547.4	560.0	576.3	597.9	619.6	652.1	673.8	672.0
47.5°	448.0	453.4	467.9	487.8	505.8	529.3	551.0	572.7	603.4	619.6	614.2
50°	424.5	428.1	444.4	466.1	493.2	522.1	551.0	574.5	603.4	614.2	605.2
52.5°	422.7	422.7	442.6	475.1	513.0	552.8	590.7	623.2	650.3	650.3	632.3
55°	397.4	401.0	426.3	469.7	527.5	592.5	659.4	720.8	756.9	749.7	715.4
57.5°	361.3	363.1	390.2	431.7	493.2	572.7	663.0	740.7	784.0	793.0	756.9
60°	339.6	341.4	359.5	399.2	451.6	514.8	597.9	659.4	702.7	729.8	700.9
62.5°	321.6	321.6	339.6	366.7	410.1	457.0	504.0	545.6	579.9	599.8	583.5
65°	301.7	301.7	314.3	339.6	373.9	419.1	455.2	485.9	516.7	531.1	516.7
67.5°	281.8	281.8	294.5	317.9	348.7	386.6	422.7	451.6	482.3	493.2	482.3
70°	261.9	261.9	274.6	294.5	323.4	359.5	386.6	417.3	446.2	453.4	444.4
72.5°	242.1	242.1	254.7	272.8	298.1	332.4	357.7	381.2	408.3	413.7	404.7
75°	224.0	224.0	233.0	251.1	274.6	305.3	330.6	352.3	373.9	373.9	366.7
77.5°	204.1	205.9	213.2	229.4	251.1	280.0	303.5	323.4	341.4	341.4	332.4
80°	184.3	186.1	193.3	207.7	227.6	254.7	276.4	294.5	310.7	310.7	301.7
82.5°	164.4	166.2	173.4	186.1	204.1	229.4	251.1	269.2	283.6	281.8	272.8
85°	146.3	148.1	153.6	164.4	180.6	205.9	225.8	242.1	254.7	252.9	245.7
87.5°	128.3	130.1	135.5	144.5	159.0	182.5	202.3	216.8	227.6	225.8	218.6
90°	112.0	112.0	117.4	126.5	139.1	159.0	177.0	189.7	200.5	196.9	189.7
92.5°	97.6	99.4	103.0	110.2	121.0	139.1	155.4	166.2	177.0	175.2	168.0
95°	86.7	86.7	90.3	95.7	104.8	119.2	135.5	144.5	151.7	151.7	146.3
97.5°	75.9	77.7	79.5	83.1	90.3	101.2	113.8	122.8	128.3	128.3	124.6
100°	68.6	70.5	70.5	74.1	77.7	84.9	93.9	101.2	106.6	106.6	104.8
102.5°	65.0	65.0	65.0	66.8	68.6	72.3	77.7	81.3	84.9	86.7	84.9
105°	61.4	61.4	61.4	63.2	63.2	66.8	68.6	72.3	74.1	74.1	72.3
107.5°	59.6	59.6	61.4	61.4	61.4	63.2	66.8	66.8	68.6	66.8	66.8
110°	61.4	61.4	61.4	61.4	61.4	63.2	65.0	65.0	65.0	65.0	63.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	63.2	63.2	63.2	63.2	65.0	65.0	65.0	66.8	66.8	65.0	65.0
115°	68.6	68.6	68.6	68.6	68.6	70.5	70.5	70.5	70.5	68.6	66.8
117.5°	74.1	74.1	74.1	75.9	75.9	77.7	75.9	77.7	75.9	74.1	74.1
120°	83.1	83.1	84.9	86.7	88.5	88.5	86.7	88.5	88.5	84.9	83.1
122.5°	93.9	93.9	95.7	101.2	103.0	104.8	103.0	103.0	103.0	99.4	97.6
125°	104.8	106.6	110.2	117.4	122.8	126.5	122.8	124.6	124.6	119.2	117.4
127.5°	117.4	119.2	126.5	137.3	146.3	149.9	148.1	149.9	151.7	142.7	139.1
130°	130.1	130.1	140.9	157.2	169.8	175.2	177.0	178.8	180.6	171.6	164.4
132.5°	140.9	140.9	155.4	175.2	191.5	200.5	204.1	207.7	211.4	198.7	189.7
135°	148.1	149.9	168.0	191.5	211.4	224.0	229.4	233.0	238.5	224.0	213.2
137.5°	153.6	157.2	175.2	200.5	222.2	240.3	251.1	256.5	260.1	245.7	231.2
140°	155.4	157.2	177.0	202.3	224.0	243.9	260.1	269.2	271.0	256.5	242.1
142.5°	149.9	153.6	171.6	196.9	218.6	240.3	258.3	267.4	269.2	256.5	242.1
145°	142.7	144.5	160.8	184.3	205.9	229.4	249.3	258.3	258.3	247.5	233.0
147.5°	130.1	131.9	146.3	166.2	187.9	211.4	231.2	240.3	242.1	231.2	218.6
150°	112.0	113.8	124.6	140.9	162.6	186.1	204.1	215.0	215.0	204.1	195.1
152.5°	90.3	92.1	101.2	113.8	131.9	153.6	169.8	180.6	180.6	173.4	162.6
155°	70.5	70.5	77.7	88.5	101.2	117.4	130.1	139.1	140.9	133.7	126.5
157.5°	50.6	50.6	56.0	65.0	75.9	88.5	97.6	104.8	104.8	99.4	95.7
160°	34.3	34.3	37.9	43.4	50.6	59.6	66.8	74.1	74.1	70.5	66.8
162.5°	18.1	18.1	21.7	25.3	30.7	37.9	41.5	47.0	47.0	45.2	43.4
165°	5.4	5.4	7.2	9.0	12.6	16.3	18.1	21.7	23.5	21.7	19.9
167.5°	0.0	0.0	1.8	1.8	1.8	1.8	3.6	5.4	5.4	5.4	5.4
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°	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2	3909.2
2.5°	3593.1	3706.9	3809.9	3916.5	4048.3	4163.9	4288.6	4377.1	4415.0	4415.0	4429.5
5°	3367.3	3446.8	3529.9	3623.8	3781.0	3974.3	4196.5	4378.9	4483.7	4499.9	4498.1
7.5°	2993.3	3047.5	3132.4	3237.2	3381.7	3555.2	3840.6	4126.0	4315.7	4350.0	4337.4
10°	2664.6	2715.1	2765.7	2805.5	2908.4	3045.7	3255.3	3533.5	3752.1	3786.4	3759.3
12.5°	2496.6	2512.8	2511.0	2534.5	2576.0	2644.7	2751.3	2912.0	3062.0	3094.5	3071.0
15°	2408.0	2384.6	2348.4	2306.9	2303.3	2314.1	2341.2	2406.2	2469.5	2496.6	2478.5
17.5°	2371.9	2315.9	2241.8	2160.6	2106.4	2055.8	2021.5	1999.8	2008.8	2010.6	1996.2
20°	2287.0	2220.2	2100.9	1985.3	1898.6	1810.1	1734.2	1678.2	1669.2	1660.2	1649.3
22.5°	2191.3	2077.5	1934.7	1793.8	1665.6	1548.2	1463.3	1396.4	1371.1	1380.2	1374.7
25°	2171.4	1981.7	1808.3	1580.7	1418.1	1286.2	1127.2	1018.9	970.1	997.2	979.1
27.5°	1302.5	1307.9	1210.3	1073.1	955.6	878.0	807.5	749.7	717.2	717.2	720.8
30°	1179.6	1127.2	1062.2	977.3	874.3	796.7	719.0	655.8	621.4	612.4	616.0
32.5°	1078.5	1042.3	980.9	899.6	805.7	726.2	644.9	587.1	554.6	552.8	551.0
35°	970.1	932.1	881.6	811.1	729.8	655.8	585.3	534.7	505.8	507.6	507.6
37.5°	896.0	861.7	816.5	749.7	675.6	601.6	538.3	491.4	467.9	467.9	466.1
40°	858.1	818.3	769.6	708.1	639.5	561.8	502.2	457.0	437.2	437.2	435.4
42.5°	775.0	740.7	708.1	644.9	576.3	513.0	457.0	417.3	397.4	397.4	397.4
45°	657.6	637.7	612.4	569.0	513.0	460.7	413.7	375.7	359.5	357.7	357.7
47.5°	607.0	585.3	554.6	514.8	469.7	420.9	375.7	348.7	332.4	332.4	332.4
50°	592.5	567.2	525.7	478.7	431.7	388.4	348.7	323.4	308.9	308.9	310.7
52.5°	612.4	570.8	514.8	457.0	408.3	359.5	325.2	299.9	289.0	289.0	287.2
55°	681.0	603.4	522.1	451.6	390.2	337.8	301.7	274.6	261.9	261.9	261.9
57.5°	719.0	626.8	527.5	444.4	373.9	321.6	283.6	254.7	242.1	242.1	242.1
60°	675.6	599.8	505.8	429.9	361.3	307.1	267.4	240.3	227.6	225.8	224.0
62.5°	565.4	518.5	451.6	388.4	334.2	287.2	254.7	227.6	215.0	215.0	213.2
65°	504.0	464.3	406.5	352.3	307.1	267.4	236.6	215.0	202.3	200.5	200.5
67.5°	469.7	433.6	375.7	325.2	283.6	247.5	218.6	198.7	189.7	186.1	186.1
70°	431.7	392.0	341.4	296.3	258.3	225.8	202.3	182.5	173.4	171.6	169.8
72.5°	393.8	357.7	310.7	267.4	233.0	205.9	184.3	166.2	157.2	155.4	155.4
75°	354.1	319.7	274.6	238.5	209.6	184.3	164.4	149.9	142.7	140.9	139.1
77.5°	321.6	290.8	247.5	213.2	186.1	166.2	148.1	135.5	128.3	128.3	126.5
80°	290.8	261.9	220.4	189.7	166.2	146.3	131.9	121.0	115.6	113.8	113.8
82.5°	261.9	233.0	195.1	168.0	146.3	130.1	115.6	106.6	101.2	101.2	101.2
85°	234.8	207.7	173.4	148.1	128.3	113.8	101.2	92.1	88.5	86.7	88.5
87.5°	207.7	182.5	153.6	130.1	112.0	97.6	86.7	79.5	75.9	75.9	75.9
90°	182.5	159.0	131.9	110.2	95.7	83.1	74.1	66.8	65.0	63.2	63.2
92.5°	160.8	140.9	117.4	99.4	84.9	75.9	66.8	61.4	57.8	57.8	57.8
95°	140.9	122.8	104.8	88.5	77.7	68.6	61.4	56.0	54.2	54.2	54.2
97.5°	121.0	106.6	92.1	79.5	70.5	63.2	56.0	52.4	50.6	48.8	50.6
100°	101.2	90.3	79.5	70.5	63.2	56.0	50.6	47.0	45.2	45.2	45.2
102.5°	81.3	75.9	66.8	59.6	54.2	50.6	45.2	41.5	39.7	39.7	39.7
105°	70.5	65.0	59.6	54.2	50.6	45.2	41.5	37.9	36.1	36.1	36.1
107.5°	65.0	61.4	56.0	52.4	47.0	43.4	39.7	34.3	32.5	32.5	32.5
110°	63.2	59.6	56.0	50.6	47.0	43.4	39.7	32.5	30.7	30.7	30.7

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	63.2	59.6	56.0	52.4	48.8	43.4	39.7	32.5	28.9	28.9	28.9
115°	66.8	63.2	59.6	56.0	50.6	45.2	41.5	32.5	28.9	28.9	28.9
117.5°	72.3	68.6	65.0	59.6	54.2	48.8	41.5	32.5	30.7	30.7	30.7
120°	81.3	77.7	72.3	66.8	59.6	52.4	45.2	34.3	28.9	30.7	30.7
122.5°	93.9	90.3	83.1	74.1	66.8	57.8	47.0	36.1	27.1	30.7	30.7
125°	112.0	106.6	95.7	84.9	74.1	63.2	50.6	37.9	28.9	32.5	32.5
127.5°	131.9	124.6	110.2	95.7	83.1	68.6	54.2	39.7	30.7	32.5	32.5
130°	155.4	142.7	124.6	106.6	90.3	74.1	57.8	41.5	32.5	32.5	32.5
132.5°	178.8	160.8	137.3	117.4	97.6	77.7	59.6	41.5	32.5	32.5	32.5
135°	198.7	177.0	149.9	124.6	101.2	79.5	61.4	41.5	32.5	32.5	32.5
137.5°	216.8	187.9	157.2	128.3	103.0	79.5	59.6	41.5	30.7	30.7	30.7
140°	225.8	193.3	160.8	128.3	101.2	77.7	56.0	37.9	28.9	28.9	28.9
142.5°	225.8	191.5	157.2	124.6	97.6	74.1	52.4	36.1	25.3	27.1	27.1
145°	218.6	184.3	149.9	117.4	90.3	66.8	47.0	30.7	23.5	23.5	23.5
147.5°	202.3	169.8	137.3	106.6	81.3	57.8	41.5	27.1	19.9	18.1	19.9
150°	180.6	149.9	119.2	92.1	68.6	48.8	34.3	21.7	16.3	16.3	16.3
152.5°	151.7	124.6	99.4	75.9	54.2	37.9	25.3	16.3	12.6	12.6	12.6
155°	119.2	97.6	77.7	57.8	41.5	28.9	19.9	12.6	9.0	9.0	9.0
157.5°	90.3	74.1	57.8	41.5	30.7	21.7	14.5	9.0	7.2	7.2	7.2
160°	63.2	50.6	39.7	28.9	19.9	14.5	9.0	5.4	3.6	3.6	3.6
162.5°	39.7	32.5	25.3	16.3	12.6	9.0	5.4	3.6	1.8	1.8	1.8
165°	18.1	16.3	10.8	7.2	5.4	3.6	1.8	1.8	0.0	0.0	0.0
167.5°	5.4	3.6	3.6	1.8	1.8	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)