

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: P691728

Luminaire Tested: **CRTK2-C018-D-U-T5R-7040-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691728
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-C018-D-U-T5R-7040-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE V ROUND OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6071 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type V - Short
BUG Rating: B3 - U4 - G2

Input Watts (W): 50.4
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

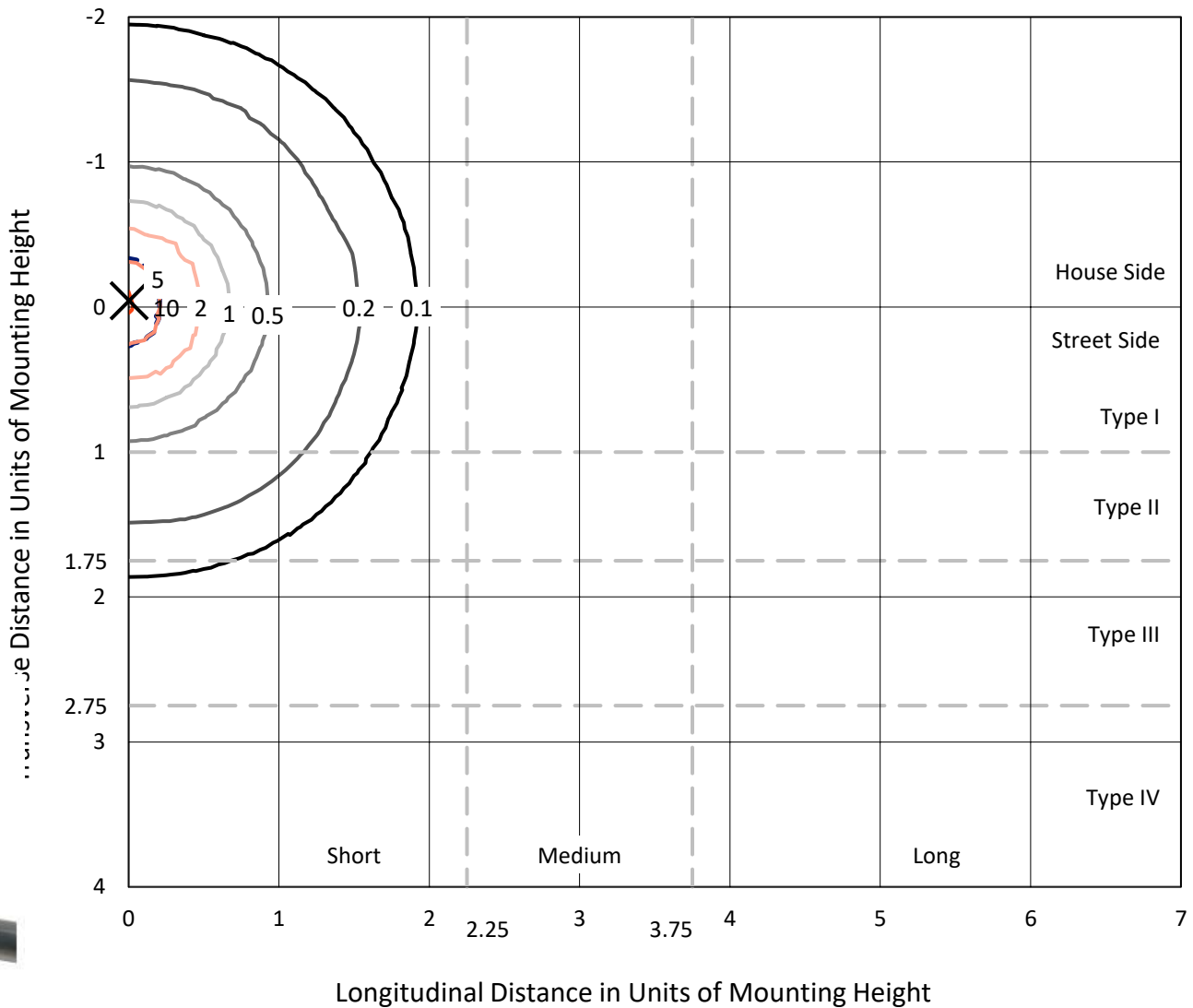


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

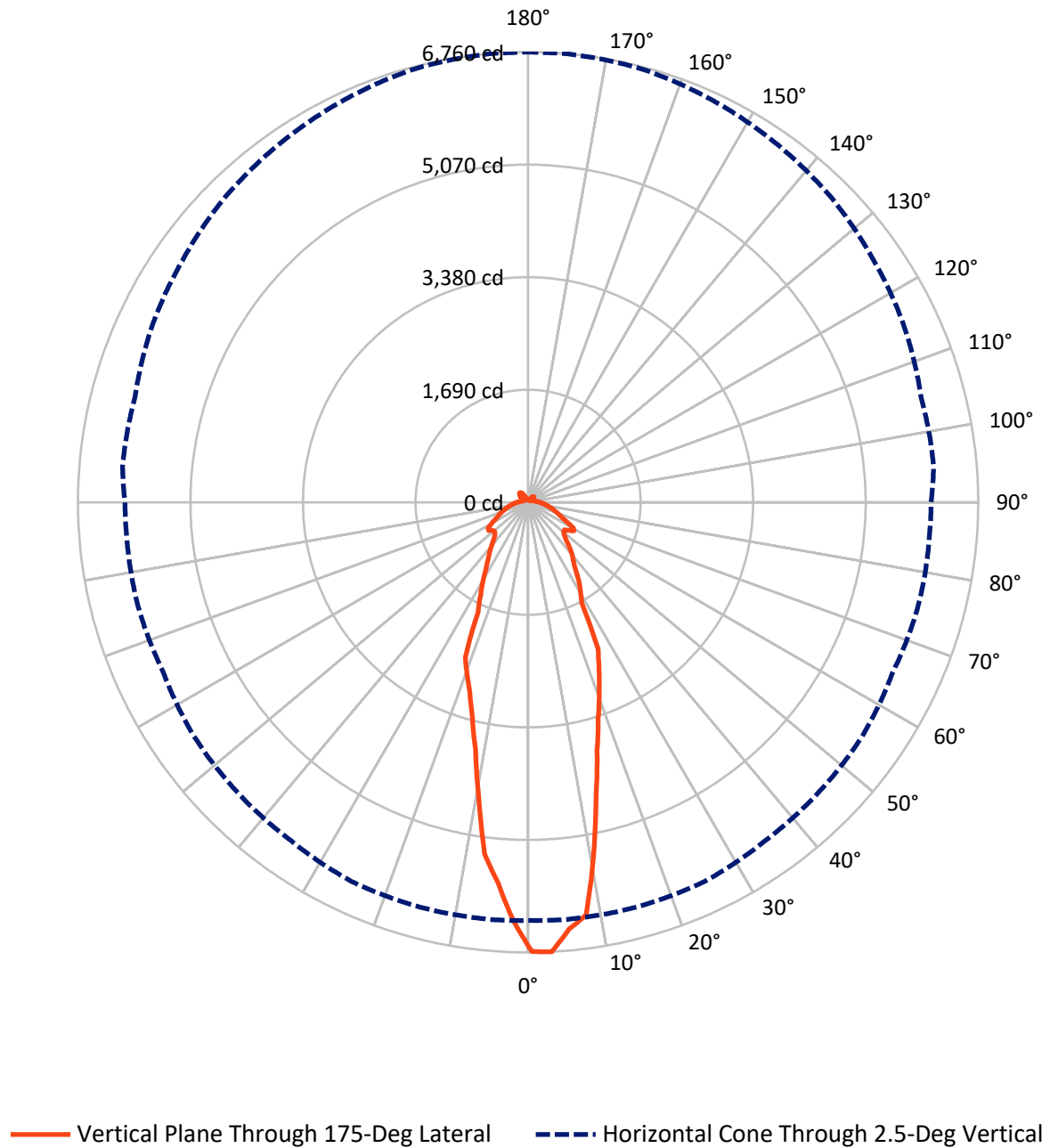


Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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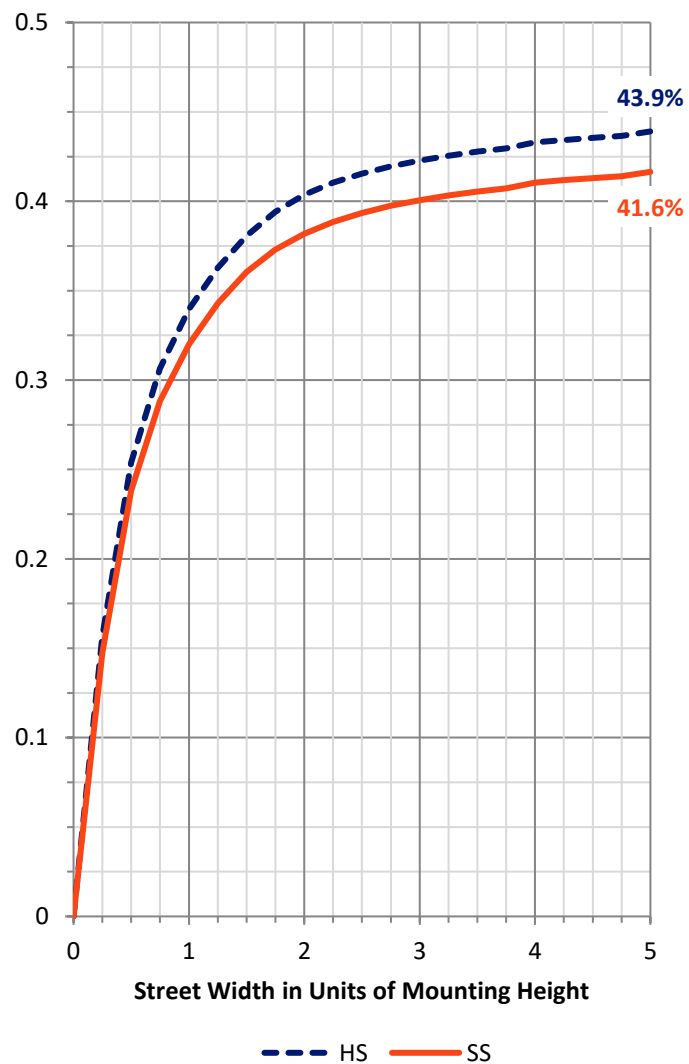
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2747.6	363.0	3110.6
	% Fixture	45.3	6.0	51.2
Street Side	Lumens	2587.9	372.5	2960.4
	% Fixture	42.6	6.1	48.8
Total	Lumens	5335.5	735.5	6071.0
	% Fixture	87.9	12.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.3	8.3
10°-20°	881.6	14.5
20°-30°	874.2	14.4
30°-40°	673.9	11.1
40°-50°	577.7	9.5
50°-60°	646.1	10.6
60°-70°	553.6	9.1
70°-80°	380.9	6.3
80°-90°	245.2	4.0
90°-100°	146.9	2.4
100°-110°	87.4	1.4
110°-120°	80.9	1.3
120°-130°	115.5	1.9
130°-140°	149.2	2.5
140°-150°	110.5	1.8
150°-160°	40.4	0.7
160°-170°	4.7	0.1
170°-180°	0.0	0.0
0°-90°	5335.5	87.9
0°-180°	6071.0	100.0

Coefficient of Utilization



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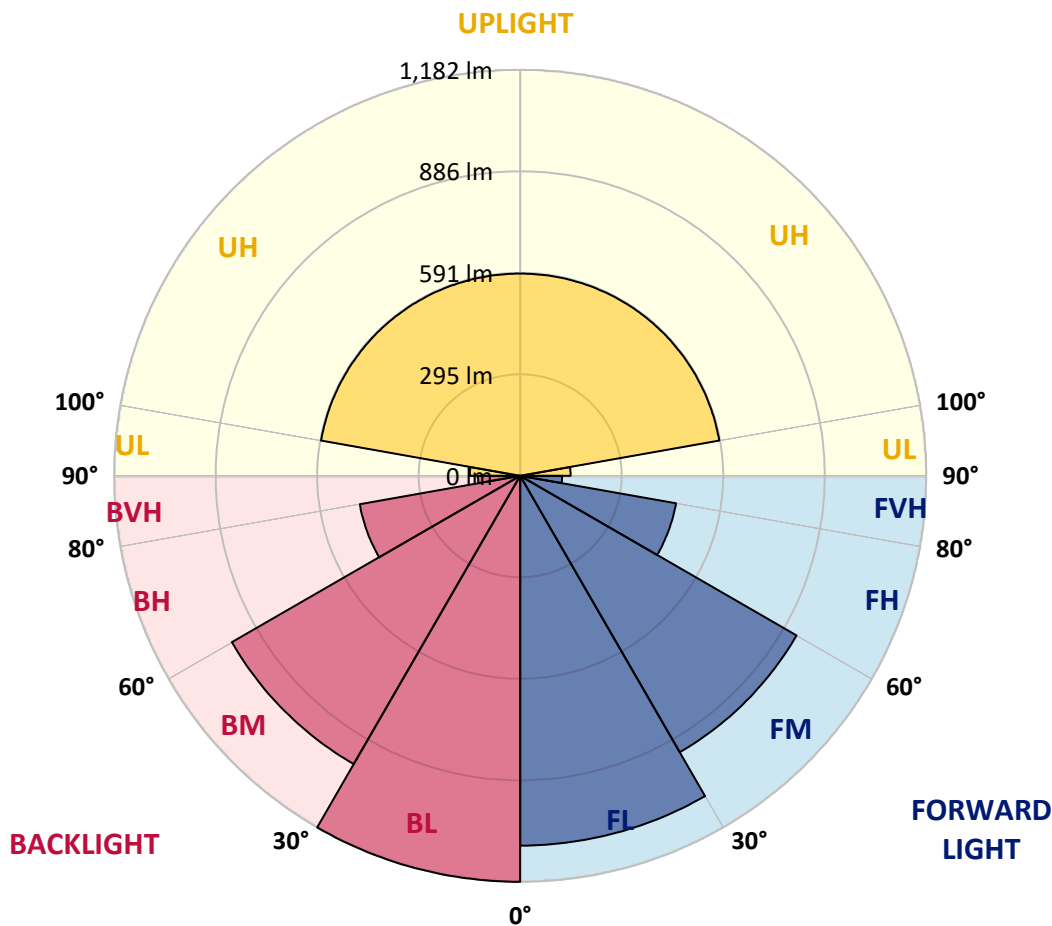
CATALOG NUMBER: CRTK2-C018-D-U-T5R-7040-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1076.3	17.7			
FM	(30°-60°)	928.9	15.3			
FH	(60°-80°)	460.5	7.6			G0/660
FVH	(80°-90°)	122.2	2.0			G2/225
BL	(0°-30°)	1181.7	19.5	B3/2500		
BM	(30°-60°)	968.9	16.0	B1/1000		
BH	(60°-80°)	474.0	7.8	B1/500		G0/660
BVH	(80°-90°)	123.0	2.0			G2/225
UL	(90°-100°)	146.9	2.4		U3/500	
UH	(100°-180°)	588.6	9.7		U4/1000	

BUG Rating: B3-U4-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6746.7	6746.7	6746.7	6746.7	6746.7	6746.7	6746.7	6746.7	6746.7	6746.7	6746.7
2.5°	6280.8	6289.9	6292.2	6280.8	6205.4	6166.6	6125.5	6043.3	6061.5	6050.1	6052.4
5°	5696.1	5732.6	5675.5	5659.6	5545.4	5460.9	5378.6	5289.6	5269.0	5232.5	5246.2
7.5°	5307.8	5328.4	5234.7	5138.8	4956.1	4825.9	4688.9	4551.9	4449.1	4410.3	4426.2
10°	4419.4	4487.9	4394.3	4296.1	4122.5	3967.2	3823.3	3688.5	3594.9	3565.2	3569.8
12.5°	3757.1	3795.9	3715.9	3649.7	3455.6	3307.1	3174.7	3049.0	2973.7	2941.7	2941.7
15°	3318.5	3334.5	3272.9	3145.0	2998.8	2864.0	2752.1	2660.8	2599.1	2587.7	2592.3
17.5°	2987.4	2987.4	2925.7	2825.2	2713.3	2594.5	2516.9	2448.4	2421.0	2430.1	2432.4
20°	2738.4	2740.7	2685.9	2587.7	2491.8	2384.4	2320.5	2272.5	2256.5	2272.5	2274.8
22.5°	2503.2	2514.6	2455.2	2382.1	2277.1	2192.6	2140.0	2087.5	2078.4	2085.2	2085.2
25°	1811.1	1811.1	1790.6	1733.5	1756.3	1765.5	1827.1	1959.6	1932.2	1957.3	1955.0
27.5°	1562.2	1571.3	1530.2	1480.0	1427.5	1365.8	1354.4	1342.9	1331.5	1384.1	1402.3
30°	1379.5	1384.1	1349.8	1315.5	1272.1	1237.9	1228.7	1228.7	1217.3	1258.4	1256.2
32.5°	1205.9	1199.1	1189.9	1157.9	1130.5	1100.8	1107.7	1103.1	1103.1	1139.7	1142.0
35°	1068.9	1066.6	1059.7	1036.9	1009.5	986.7	993.5	998.1	995.8	1018.6	1018.6
37.5°	968.4	970.7	966.1	957.0	929.6	911.3	915.9	911.3	918.1	934.1	934.1
40°	870.2	870.2	872.5	870.2	851.9	845.1	858.8	851.9	867.9	879.3	874.7
42.5°	776.5	778.8	783.4	778.8	767.4	760.5	767.4	769.7	792.5	808.5	806.2
45°	717.2	717.2	719.4	717.2	708.0	701.2	701.2	694.3	710.3	719.4	717.2
47.5°	678.3	678.3	682.9	680.6	676.0	669.2	664.6	655.5	662.3	669.2	662.3
50°	664.6	664.6	673.8	673.8	671.5	664.6	657.8	646.3	648.6	653.2	644.1
52.5°	685.2	685.2	701.2	708.0	708.0	696.6	687.5	671.5	671.5	676.0	662.3
55°	728.6	728.6	753.7	767.4	769.7	769.7	758.3	742.3	744.6	753.7	740.0
57.5°	712.6	714.9	735.4	753.7	765.1	772.0	772.0	762.8	769.7	792.5	785.7
60°	637.2	641.8	655.5	671.5	692.0	698.9	698.9	696.6	708.0	735.4	735.4
62.5°	566.4	568.7	575.5	589.3	600.7	605.2	605.2	596.1	609.8	623.5	618.9
65°	511.6	509.3	523.0	534.4	541.3	548.1	541.3	532.2	539.0	548.1	545.9
67.5°	465.9	465.9	477.3	486.5	491.0	497.9	493.3	488.8	497.9	502.5	497.9
70°	422.5	424.8	433.9	440.8	445.4	452.2	445.4	443.1	452.2	456.8	454.5
72.5°	379.1	381.4	388.3	397.4	402.0	404.3	402.0	399.7	406.5	411.1	411.1
75°	340.3	342.6	347.2	356.3	356.3	360.9	358.6	356.3	363.1	367.7	367.7
77.5°	303.8	308.3	310.6	317.5	319.7	322.0	319.7	319.7	324.3	328.9	331.2
80°	271.8	274.1	276.4	283.2	283.2	285.5	283.2	283.2	287.8	294.6	294.6
82.5°	242.1	244.4	246.7	251.2	248.9	251.2	251.2	251.2	255.8	262.7	262.7
85°	212.4	217.0	217.0	221.5	221.5	221.5	221.5	223.8	226.1	233.0	233.0
87.5°	187.3	189.6	191.8	194.1	194.1	196.4	196.4	198.7	201.0	205.6	207.8
90°	162.2	164.4	166.7	166.7	166.7	169.0	169.0	171.3	173.6	178.1	180.4
92.5°	143.9	146.2	146.2	148.5	148.5	148.5	150.7	153.0	155.3	159.9	159.9
95°	127.9	130.2	130.2	130.2	130.2	132.5	132.5	134.8	137.0	141.6	141.6
97.5°	114.2	114.2	114.2	114.2	114.2	116.5	116.5	118.8	121.0	123.3	123.3
100°	100.5	100.5	100.5	100.5	100.5	100.5	100.5	102.8	102.8	107.3	107.3
102.5°	89.1	89.1	86.8	86.8	86.8	84.5	84.5	86.8	86.8	89.1	89.1
105°	79.9	79.9	79.9	79.9	77.7	77.7	77.7	77.7	77.7	79.9	79.9
107.5°	77.7	77.7	75.4	75.4	75.4	73.1	73.1	73.1	73.1	75.4	75.4
110°	75.4	75.4	75.4	75.4	73.1	73.1	70.8	70.8	70.8	73.1	73.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	77.7	77.7	77.7	75.4	75.4	73.1	73.1	73.1	73.1	73.1	75.4
115°	82.2	79.9	79.9	79.9	79.9	77.7	75.4	75.4	77.7	77.7	77.7
117.5°	89.1	86.8	86.8	89.1	86.8	84.5	82.2	82.2	84.5	84.5	86.8
120°	98.2	95.9	98.2	98.2	98.2	95.9	93.6	91.4	93.6	95.9	95.9
122.5°	109.6	107.3	109.6	111.9	111.9	109.6	105.1	105.1	107.3	109.6	111.9
125°	123.3	123.3	125.6	127.9	130.2	125.6	123.3	121.0	125.6	127.9	127.9
127.5°	139.3	137.0	141.6	148.5	150.7	146.2	141.6	139.3	143.9	148.5	148.5
130°	155.3	153.0	159.9	166.7	171.3	166.7	162.2	159.9	164.4	169.0	169.0
132.5°	169.0	166.7	175.9	185.0	189.6	187.3	182.7	178.1	185.0	189.6	187.3
135°	180.4	180.4	191.8	201.0	205.6	203.3	198.7	194.1	203.3	207.8	203.3
137.5°	187.3	187.3	201.0	210.1	214.7	214.7	212.4	207.8	217.0	219.3	212.4
140°	187.3	189.6	201.0	210.1	212.4	214.7	214.7	212.4	221.5	221.5	214.7
142.5°	180.4	182.7	194.1	203.3	205.6	207.8	210.1	207.8	214.7	214.7	210.1
145°	169.0	171.3	182.7	191.8	191.8	194.1	198.7	196.4	201.0	203.3	198.7
147.5°	153.0	155.3	164.4	169.0	171.3	175.9	180.4	180.4	182.7	185.0	182.7
150°	132.5	132.5	139.3	143.9	146.2	150.7	155.3	157.6	157.6	159.9	157.6
152.5°	105.1	105.1	109.6	114.2	116.5	123.3	125.6	127.9	130.2	132.5	130.2
155°	79.9	79.9	82.2	84.5	86.8	93.6	95.9	98.2	100.5	102.8	100.5
157.5°	57.1	57.1	59.4	61.7	63.9	68.5	70.8	73.1	73.1	75.4	75.4
160°	36.5	38.8	38.8	41.1	41.1	45.7	48.0	48.0	50.2	52.5	52.5
162.5°	18.3	20.6	20.6	22.8	25.1	27.4	29.7	29.7	32.0	32.0	32.0
165°	4.6	6.9	6.9	9.1	9.1	11.4	13.7	13.7	16.0	16.0	16.0
167.5°	0.0	2.3	2.3	2.3	2.3	2.3	2.3	4.6	4.6	4.6	4.6
170°	0.0	0.0	0.0	0.0	2.3	0.0	0.0	2.3	2.3	2.3	2.3
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°	6746.7	6746.7	6746.7	6746.7	6746.7	6746.7	6746.7	6746.7	6746.7	6746.7	6746.7
2.5°	6114.1	6109.5	6235.1	6335.6	6454.4	6548.0	6639.4	6726.1	6760.4	6758.1	6760.4
5°	5307.8	5387.8	5552.2	5714.4	5906.2	6086.6	6255.7	6367.6	6438.4	6438.4	6445.2
7.5°	4499.3	4627.2	4830.5	5088.6	5376.4	5611.6	5897.1	6098.1	6257.9	6253.4	6283.1
10°	3633.7	3734.2	3937.5	4213.8	4531.3	4803.1	5052.0	5239.3	5394.6	5385.5	5424.3
12.5°	2985.1	3055.9	3231.7	3483.0	3773.0	4035.7	4280.1	4426.2	4535.9	4533.6	4554.1
15°	2603.7	2676.8	2791.0	2964.5	3204.3	3437.3	3681.7	3814.1	3875.8	3869.0	3903.2
17.5°	2448.4	2478.1	2548.9	2665.3	2838.9	3028.5	3222.6	3336.8	3407.6	3398.5	3423.6
20°	2281.6	2309.0	2357.0	2443.8	2567.1	2711.0	2875.5	3001.1	3053.6	3051.3	3067.3
22.5°	2089.8	2103.5	2156.0	2224.5	2313.6	2430.1	2555.7	2669.9	2722.4	2720.1	2736.1
25°	1957.3	1980.2	2012.1	2053.2	2114.9	2206.3	2311.3	2391.3	2439.2	2434.7	2455.2
27.5°	1429.7	1452.6	1468.6	1493.7	1496.0	1571.3	1607.9	1674.1	1717.5	1715.2	1728.9
30°	1256.2	1260.7	1274.4	1308.7	1329.2	1388.6	1461.7	1512.0	1548.5	1562.2	1571.3
32.5°	1146.5	1160.2	1176.2	1192.2	1217.3	1253.9	1311.0	1356.6	1395.5	1402.3	1418.3
35°	1020.9	1030.0	1041.5	1057.5	1073.4	1103.1	1146.5	1183.1	1212.8	1224.2	1233.3
37.5°	931.8	934.1	945.5	963.8	977.5	1002.6	1041.5	1068.9	1098.6	1100.8	1110.0
40°	872.5	874.7	886.2	902.1	918.1	934.1	968.4	993.5	1014.1	1016.3	1023.2
42.5°	803.9	810.8	815.4	822.2	833.6	847.3	877.0	890.7	904.4	906.7	915.9
45°	710.3	712.6	717.2	724.0	737.7	751.4	772.0	788.0	797.1	797.1	794.8
47.5°	657.8	660.1	660.1	669.2	680.6	694.3	712.6	726.3	730.9	730.9	730.9
50°	639.5	639.5	634.9	641.8	653.2	662.3	680.6	692.0	694.3	696.6	698.9
52.5°	653.2	648.6	634.9	641.8	653.2	662.3	680.6	685.2	685.2	689.7	692.0
55°	728.6	721.7	694.3	698.9	712.6	724.0	737.7	740.0	744.6	751.4	749.1
57.5°	776.5	781.1	749.1	756.0	781.1	790.2	806.2	803.9	813.1	822.2	824.5
60°	730.9	744.6	719.4	728.6	758.3	762.8	778.8	769.7	783.4	783.4	783.4
62.5°	621.2	625.8	612.1	625.8	653.2	653.2	664.6	657.8	662.3	657.8	660.1
65°	543.6	541.3	525.3	543.6	552.7	557.3	566.4	568.7	568.7	564.1	564.1
67.5°	495.6	491.0	477.3	481.9	491.0	493.3	507.0	509.3	507.0	507.0	509.3
70°	452.2	445.4	431.7	433.9	440.8	443.1	454.5	459.1	456.8	454.5	456.8
72.5°	408.8	402.0	388.3	388.3	395.1	399.7	408.8	413.4	408.8	408.8	411.1
75°	367.7	360.9	347.2	347.2	351.7	354.0	365.4	367.7	365.4	363.1	365.4
77.5°	331.2	326.6	312.9	312.9	315.2	317.5	324.3	326.6	324.3	322.0	324.3
80°	296.9	290.1	280.9	278.6	280.9	280.9	287.8	290.1	285.5	285.5	287.8
82.5°	264.9	258.1	248.9	248.9	246.7	248.9	253.5	255.8	253.5	251.2	253.5
85°	235.2	230.7	221.5	219.3	219.3	219.3	223.8	223.8	221.5	221.5	221.5
87.5°	207.8	203.3	194.1	194.1	191.8	194.1	196.4	196.4	194.1	194.1	194.1
90°	180.4	175.9	169.0	169.0	166.7	169.0	171.3	171.3	169.0	169.0	169.0
92.5°	159.9	157.6	150.7	150.7	148.5	150.7	150.7	150.7	148.5	148.5	148.5
95°	141.6	139.3	134.8	132.5	132.5	132.5	132.5	132.5	130.2	130.2	130.2
97.5°	123.3	121.0	116.5	116.5	114.2	116.5	116.5	116.5	114.2	114.2	114.2
100°	107.3	105.1	102.8	102.8	100.5	100.5	100.5	100.5	100.5	100.5	100.5
102.5°	89.1	89.1	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
105°	79.9	79.9	79.9	79.9	82.2	82.2	82.2	79.9	79.9	79.9	79.9
107.5°	75.4	75.4	75.4	77.7	77.7	77.7	79.9	75.4	73.1	73.1	73.1
110°	73.1	73.1	75.4	75.4	77.7	77.7	79.9	70.8	68.5	68.5	68.5

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	75.4	75.4	75.4	77.7	79.9	79.9	82.2	70.8	68.5	68.5	68.5
115°	79.9	79.9	79.9	82.2	84.5	86.8	86.8	75.4	70.8	70.8	73.1
117.5°	86.8	86.8	86.8	89.1	93.6	93.6	93.6	79.9	77.7	77.7	77.7
120°	95.9	98.2	98.2	100.5	105.1	107.3	102.8	91.4	77.7	84.5	84.5
122.5°	109.6	111.9	114.2	116.5	123.3	123.3	116.5	105.1	84.5	93.6	95.9
125°	127.9	130.2	132.5	137.0	143.9	143.9	134.8	118.8	95.9	105.1	107.3
127.5°	146.2	150.7	153.0	159.9	169.0	169.0	157.6	137.0	107.3	114.2	116.5
130°	166.7	171.3	175.9	185.0	196.4	191.8	182.7	155.3	116.5	121.0	121.0
132.5°	185.0	191.8	194.1	207.8	219.3	214.7	203.3	166.7	121.0	121.0	118.8
135°	198.7	203.3	205.6	219.3	230.7	223.8	210.1	171.3	118.8	114.2	114.2
137.5°	207.8	212.4	214.7	223.8	233.0	221.5	203.3	162.2	114.2	111.9	109.6
140°	212.4	212.4	212.4	219.3	223.8	210.1	187.3	146.2	102.8	107.3	107.3
142.5°	207.8	205.6	203.3	207.8	210.1	194.1	173.6	130.2	93.6	98.2	98.2
145°	196.4	191.8	189.6	191.8	191.8	173.6	150.7	111.9	82.2	84.5	84.5
147.5°	180.4	173.6	169.0	169.0	166.7	148.5	127.9	93.6	70.8	68.5	68.5
150°	155.3	148.5	143.9	143.9	137.0	121.0	102.8	73.1	57.1	57.1	57.1
152.5°	127.9	121.0	116.5	116.5	109.6	93.6	77.7	54.8	43.4	43.4	43.4
155°	100.5	93.6	89.1	86.8	82.2	70.8	57.1	41.1	32.0	32.0	32.0
157.5°	75.4	70.8	66.2	63.9	59.4	52.5	41.1	29.7	20.6	22.8	22.8
160°	52.5	48.0	45.7	43.4	41.1	34.3	27.4	18.3	11.4	11.4	11.4
162.5°	32.0	29.7	29.7	27.4	25.1	22.8	16.0	9.1	4.6	4.6	4.6
165°	16.0	16.0	13.7	13.7	11.4	9.1	6.9	2.3	0.0	0.0	0.0
167.5°	4.6	4.6	4.6	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0
170°	2.3	2.3	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)