

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: P691382

Luminaire Tested: **CRTK2-C016-5TLD-U-T2-7030-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691382
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-T2-7030-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K LED WITH TYPE II OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4982 lumens
Efficiency: N/A
Efficacy: 116.4 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): 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



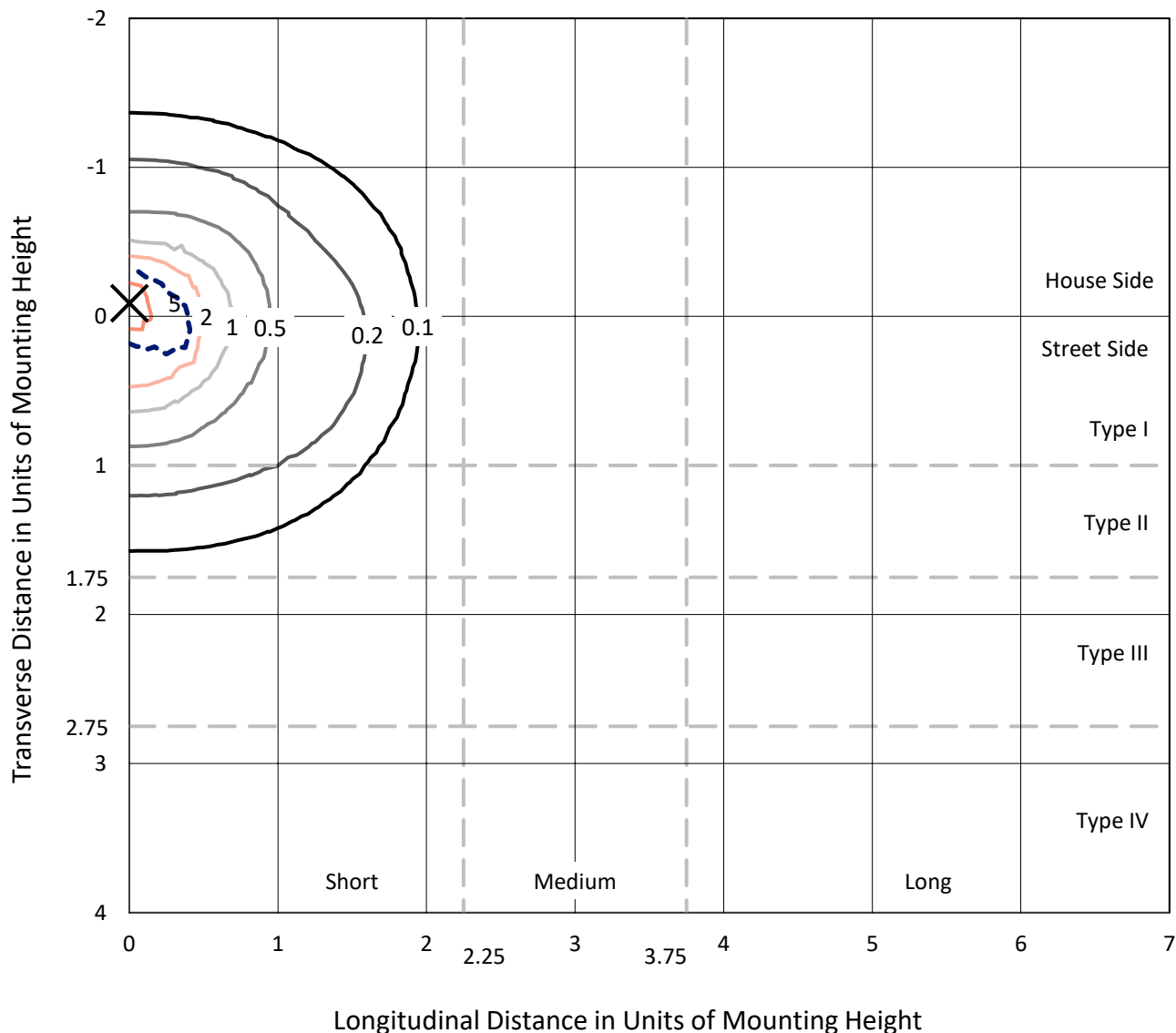
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

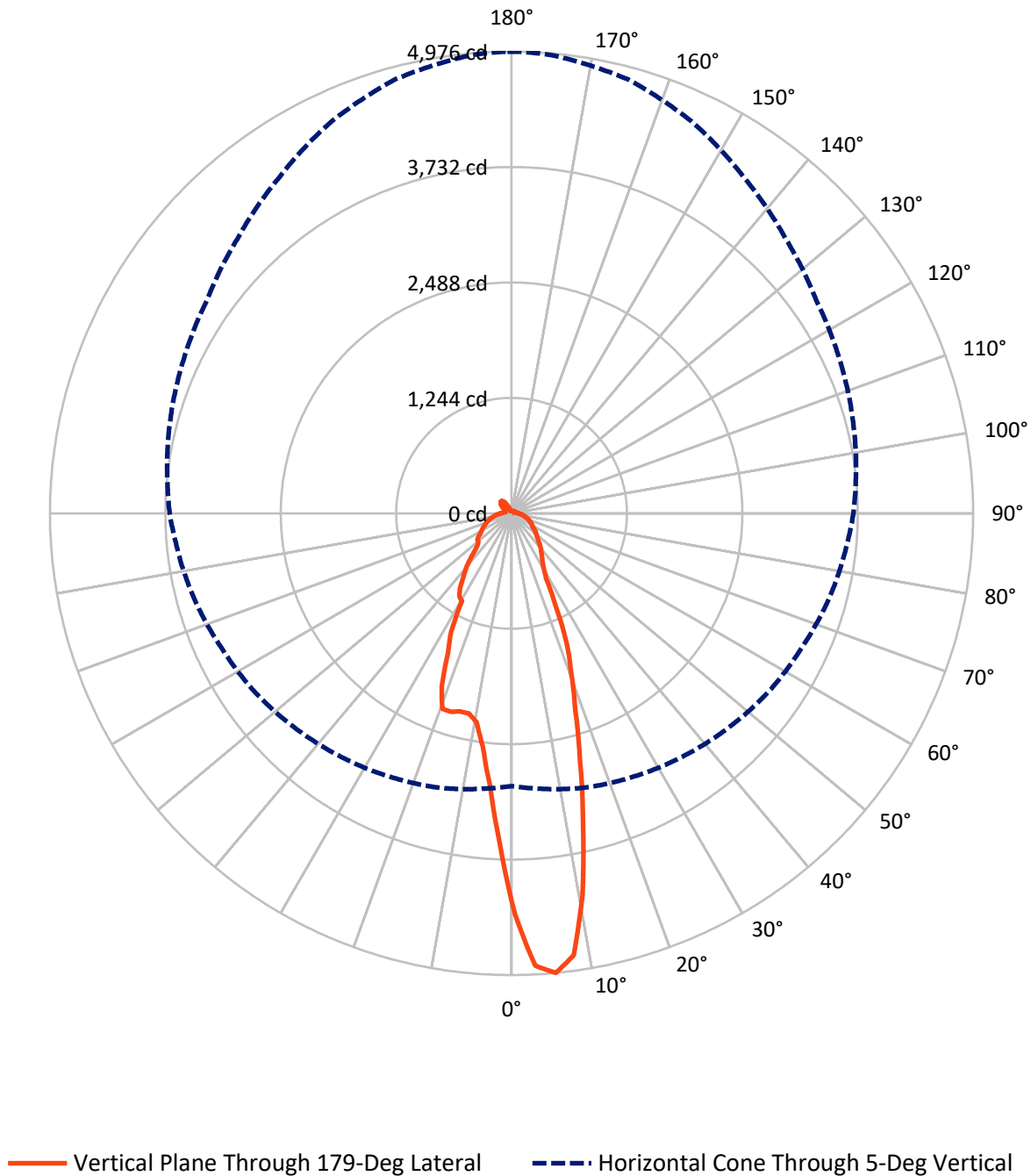


Based on 25 foot mounting height. Maximum calculated value = 7.5 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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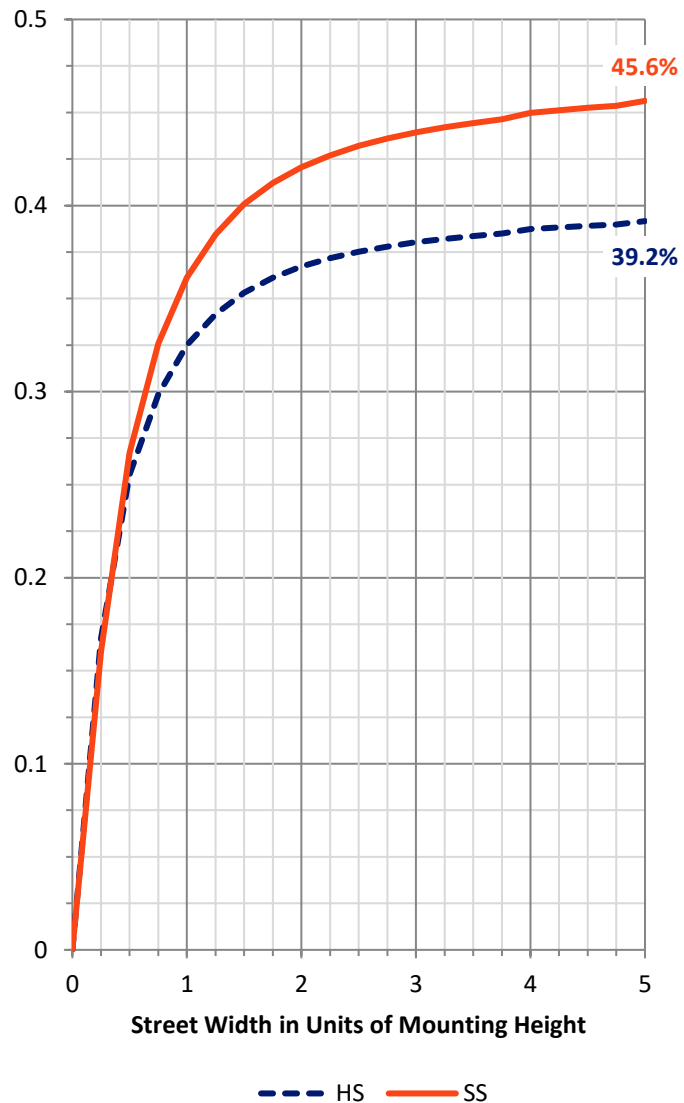
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2004.8	243.7	2248.6
	% Fixture	40.2	4.9	45.1
Street Side	Lumens	2327.0	406.5	2733.4
	% Fixture	46.7	8.2	54.9
Total	Lumens	4331.8	650.2	4982.0
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.0	6.8
10°-20°	721.1	14.5
20°-30°	783.4	15.7
30°-40°	579.8	11.6
40°-50°	485.6	9.7
50°-60°	488.2	9.8
60°-70°	415.6	8.3
70°-80°	310.5	6.2
80°-90°	209.6	4.2
90°-100°	125.3	2.5
100°-110°	72.4	1.5
110°-120°	66.6	1.3
120°-130°	96.3	1.9
130°-140°	131.8	2.6
140°-150°	108.7	2.2
150°-160°	43.8	0.9
160°-170°	5.4	0.1
170°-180°	0.0	0.0
0°-90°	4331.8	86.9
0°-180°	4982.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691382

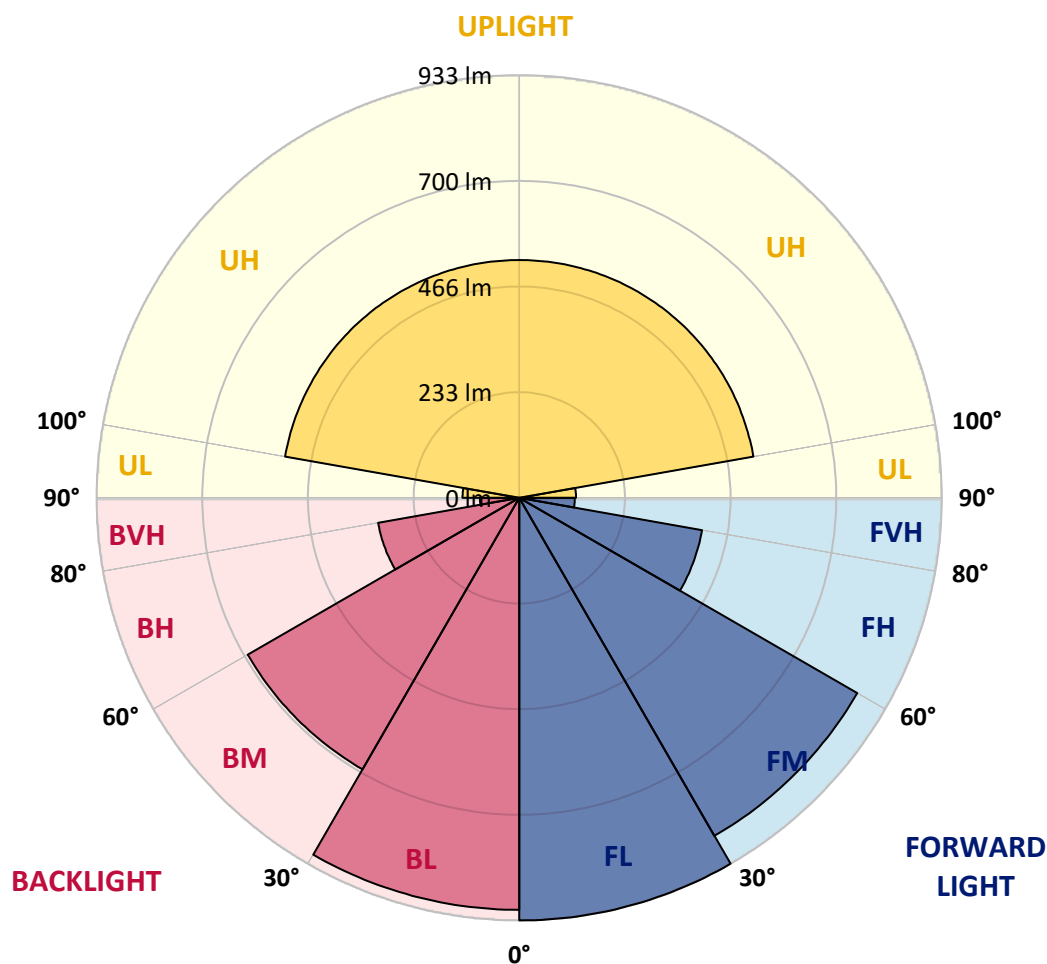
CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-7030-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	932.9	18.7			
FM	(30°-60°)	861.6	17.3			
FH	(60°-80°)	409.8	8.2			G0/660
FVH	(80°-90°)	122.7	2.5			G2/225
BL	(0°-30°)	909.6	18.3	B2/1000		
BM	(30°-60°)	692.1	13.9	B1/1000		
BH	(60°-80°)	316.3	6.3	B1/500		G1/500
BVH	(80°-90°)	86.9	1.7			G1/100
UL	(90°-100°)	125.3	2.5		U3/500	
UH	(100°-180°)	524.9	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°	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1
2.5°	3564.0	3584.0	3627.9	3649.9	3671.9	3699.8	3741.8	3773.8	3847.7	3915.6	3943.6
5°	2940.7	2976.7	3060.6	3128.5	3204.4	3284.3	3370.2	3446.1	3544.0	3633.9	3685.9
7.5°	2527.2	2557.1	2657.0	2788.9	2922.7	3034.6	3122.5	3180.4	3224.4	3260.3	3298.3
10°	2275.4	2301.4	2401.3	2519.2	2633.0	2736.9	2810.8	2866.8	2882.8	2918.7	2936.7
12.5°	2203.5	2215.5	2285.4	2367.3	2437.3	2539.1	2627.1	2687.0	2713.0	2744.9	2754.9
15°	2205.5	2205.5	2245.5	2297.4	2361.3	2439.3	2537.2	2609.1	2647.0	2665.0	2663.0
17.5°	2235.5	2233.5	2251.5	2293.4	2347.4	2425.3	2525.2	2599.1	2643.0	2649.0	2643.0
20°	2235.5	2237.5	2243.5	2291.4	2343.4	2413.3	2515.2	2577.1	2611.1	2593.1	2573.1
22.5°	2007.7	2005.7	2057.7	2159.6	2299.4	2445.3	2537.2	2613.1	2621.1	2555.1	2501.2
25°	1658.1	1644.2	1674.1	1720.1	1814.0	1983.8	2175.6	2463.2	2635.0	2597.1	2515.2
27.5°	1438.4	1420.4	1446.4	1426.4	1416.4	1404.4	1392.4	1358.5	1380.5	1400.4	1488.3
30°	1084.8	1088.8	1094.8	1106.8	1130.7	1178.7	1228.6	1258.6	1284.6	1336.5	1330.5
32.5°	1060.8	1058.8	1060.8	1072.8	1084.8	1114.7	1144.7	1160.7	1180.7	1230.6	1218.6
35°	980.9	976.9	990.9	996.9	994.9	1002.9	1032.8	1050.8	1068.8	1100.8	1088.8
37.5°	863.0	867.0	897.0	913.0	919.0	936.9	960.9	976.9	998.9	1022.9	1016.9
40°	775.1	773.1	805.1	827.1	841.1	869.0	905.0	929.0	964.9	984.9	970.9
42.5°	667.3	675.2	699.2	721.2	725.2	739.2	771.1	799.1	843.1	873.0	865.0
45°	561.4	567.4	587.3	605.3	619.3	637.3	661.3	685.2	721.2	745.2	743.2
47.5°	495.4	501.4	517.4	539.4	559.4	585.3	609.3	633.3	667.3	685.2	679.2
50°	469.5	473.5	491.4	515.4	545.4	577.4	609.3	635.3	667.3	679.2	669.2
52.5°	467.5	467.5	489.5	525.4	567.4	611.3	653.3	689.2	719.2	719.2	699.2
55°	439.5	443.5	471.5	519.4	583.3	655.3	729.2	797.1	837.1	829.1	791.1
57.5°	399.6	401.5	431.5	477.5	545.4	633.3	733.2	819.1	867.0	877.0	837.1
60°	375.6	377.6	397.6	441.5	499.4	569.4	661.3	729.2	777.1	807.1	775.1
62.5°	355.6	355.6	375.6	405.5	453.5	505.4	557.4	603.3	641.3	663.3	645.3
65°	333.6	333.6	347.6	375.6	413.5	463.5	503.4	537.4	571.4	587.3	571.4
67.5°	311.7	311.7	325.6	351.6	385.6	427.5	467.5	499.4	533.4	545.4	533.4
70°	289.7	289.7	303.7	325.6	357.6	397.6	427.5	461.5	493.4	501.4	491.4
72.5°	267.7	267.7	281.7	301.7	329.6	367.6	395.6	421.5	451.5	457.5	447.5
75°	247.7	247.7	257.7	277.7	303.7	337.6	365.6	389.6	413.5	413.5	405.5
77.5°	225.7	227.7	235.7	253.7	277.7	309.7	335.6	357.6	377.6	377.6	367.6
80°	203.8	205.8	213.8	229.7	251.7	281.7	305.7	325.6	343.6	343.6	333.6
82.5°	181.8	183.8	191.8	205.8	225.7	253.7	277.7	297.7	313.6	311.7	301.7
85°	161.8	163.8	169.8	181.8	199.8	227.7	249.7	267.7	281.7	279.7	271.7
87.5°	141.8	143.8	149.8	159.8	175.8	201.8	223.7	239.7	251.7	249.7	241.7
90°	123.9	123.9	129.9	139.8	153.8	175.8	195.8	209.8	221.8	217.8	209.8
92.5°	107.9	109.9	113.9	121.9	133.8	153.8	171.8	183.8	195.8	193.8	185.8
95°	95.9	95.9	99.9	105.9	115.9	131.9	149.8	159.8	167.8	167.8	161.8
97.5°	83.9	85.9	87.9	91.9	99.9	111.9	125.9	135.8	141.8	141.8	137.8
100°	75.9	77.9	77.9	81.9	85.9	93.9	103.9	111.9	117.9	117.9	115.9
102.5°	71.9	71.9	71.9	73.9	75.9	79.9	85.9	89.9	93.9	95.9	93.9
105°	67.9	67.9	67.9	69.9	69.9	73.9	75.9	79.9	81.9	81.9	79.9
107.5°	65.9	65.9	67.9	67.9	67.9	69.9	73.9	73.9	75.9	73.9	73.9
110°	67.9	67.9	67.9	67.9	67.9	69.9	71.9	71.9	71.9	71.9	69.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	69.9	69.9	69.9	69.9	71.9	71.9	71.9	73.9	73.9	71.9	71.9
115°	75.9	75.9	75.9	75.9	75.9	77.9	77.9	77.9	77.9	75.9	73.9
117.5°	81.9	81.9	81.9	83.9	83.9	85.9	83.9	85.9	83.9	81.9	81.9
120°	91.9	91.9	93.9	95.9	97.9	97.9	95.9	97.9	97.9	93.9	91.9
122.5°	103.9	103.9	105.9	111.9	113.9	115.9	113.9	113.9	113.9	109.9	107.9
125°	115.9	117.9	121.9	129.9	135.8	139.8	135.8	137.8	137.8	131.9	129.9
127.5°	129.9	131.9	139.8	151.8	161.8	165.8	163.8	165.8	167.8	157.8	153.8
130°	143.8	143.8	155.8	173.8	187.8	193.8	195.8	197.8	199.8	189.8	181.8
132.5°	155.8	155.8	171.8	193.8	211.8	221.8	225.7	229.7	233.7	219.8	209.8
135°	163.8	165.8	185.8	211.8	233.7	247.7	253.7	257.7	263.7	247.7	235.7
137.5°	169.8	173.8	193.8	221.8	245.7	265.7	277.7	283.7	287.7	271.7	255.7
140°	171.8	173.8	195.8	223.7	247.7	269.7	287.7	297.7	299.7	283.7	267.7
142.5°	165.8	169.8	189.8	217.8	241.7	265.7	285.7	295.7	297.7	283.7	267.7
145°	157.8	159.8	177.8	203.8	227.7	253.7	275.7	285.7	285.7	273.7	257.7
147.5°	143.8	145.8	161.8	183.8	207.8	233.7	255.7	265.7	267.7	255.7	241.7
150°	123.9	125.9	137.8	155.8	179.8	205.8	225.7	237.7	237.7	225.7	215.8
152.5°	99.9	101.9	111.9	125.9	145.8	169.8	187.8	199.8	199.8	191.8	179.8
155°	77.9	77.9	85.9	97.9	111.9	129.9	143.8	153.8	155.8	147.8	139.8
157.5°	55.9	55.9	61.9	71.9	83.9	97.9	107.9	115.9	115.9	109.9	105.9
160°	38.0	38.0	42.0	47.9	55.9	65.9	73.9	81.9	81.9	77.9	73.9
162.5°	20.0	20.0	24.0	28.0	34.0	42.0	45.9	51.9	51.9	49.9	47.9
165°	6.0	6.0	8.0	10.0	14.0	18.0	20.0	24.0	26.0	24.0	22.0
167.5°	0.0	0.0	2.0	2.0	2.0	2.0	4.0	6.0	6.0	6.0	6.0
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

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1
2.5°	3973.5	4099.4	4213.3	4331.1	4477.0	4604.8	4742.7	4840.6	4882.5	4882.5	4898.5
5°	3723.8	3811.7	3903.6	4007.5	4181.3	4395.1	4640.8	4842.6	4958.4	4976.4	4974.4
7.5°	3310.3	3370.2	3464.1	3580.0	3739.8	3931.6	4247.2	4562.9	4772.6	4810.6	4796.6
10°	2946.7	3002.6	3058.6	3102.5	3216.4	3368.2	3600.0	3907.6	4149.3	4187.3	4157.3
12.5°	2760.9	2778.9	2776.9	2802.9	2848.8	2924.7	3042.6	3220.4	3386.2	3422.2	3396.2
15°	2663.0	2637.0	2597.1	2551.1	2547.1	2559.1	2589.1	2661.0	2730.9	2760.9	2740.9
17.5°	2623.1	2561.1	2479.2	2389.3	2329.4	2273.4	2235.5	2211.5	2221.5	2223.5	2207.5
20°	2529.2	2455.2	2323.4	2195.5	2099.6	2001.8	1917.8	1855.9	1845.9	1835.9	1824.0
22.5°	2423.3	2297.4	2139.6	1983.8	1841.9	1712.1	1618.2	1544.3	1516.3	1526.3	1520.3
25°	2401.3	2191.5	1999.8	1748.0	1568.2	1422.4	1246.6	1126.7	1072.8	1102.8	1082.8
27.5°	1440.4	1446.4	1338.5	1186.7	1056.8	970.9	893.0	829.1	793.1	793.1	797.1
30°	1304.5	1246.6	1174.7	1080.8	966.9	881.0	795.1	725.2	687.2	677.2	681.2
32.5°	1192.7	1152.7	1084.8	994.9	891.0	803.1	713.2	649.3	613.3	611.3	609.3
35°	1072.8	1030.8	974.9	897.0	807.1	725.2	647.3	591.3	559.4	561.4	561.4
37.5°	990.9	952.9	903.0	829.1	747.2	665.3	595.3	543.4	517.4	517.4	515.4
40°	948.9	905.0	851.0	783.1	707.2	621.3	555.4	505.4	483.5	483.5	481.5
42.5°	857.0	819.1	783.1	713.2	637.3	567.4	505.4	461.5	439.5	439.5	439.5
45°	727.2	705.2	677.2	629.3	567.4	509.4	457.5	415.5	397.6	395.6	395.6
47.5°	671.2	647.3	613.3	569.4	519.4	465.5	415.5	385.6	367.6	367.6	367.6
50°	655.3	627.3	581.3	529.4	477.5	429.5	385.6	357.6	341.6	341.6	343.6
52.5°	677.2	631.3	569.4	505.4	451.5	397.6	359.6	331.6	319.6	319.6	317.6
55°	753.2	667.3	577.4	499.4	431.5	373.6	333.6	303.7	289.7	289.7	289.7
57.5°	795.1	693.2	583.3	491.4	413.5	355.6	313.6	281.7	267.7	267.7	267.7
60°	747.2	663.3	559.4	475.5	399.6	339.6	295.7	265.7	251.7	249.7	247.7
62.5°	625.3	573.4	499.4	429.5	369.6	317.6	281.7	251.7	237.7	237.7	235.7
65°	557.4	513.4	449.5	389.6	339.6	295.7	261.7	237.7	223.7	221.8	221.8
67.5°	519.4	479.5	415.5	359.6	313.6	273.7	241.7	219.8	209.8	205.8	205.8
70°	477.5	433.5	377.6	327.6	285.7	249.7	223.7	201.8	191.8	189.8	187.8
72.5°	435.5	395.6	343.6	295.7	257.7	227.7	203.8	183.8	173.8	171.8	171.8
75°	391.6	353.6	303.7	263.7	231.7	203.8	181.8	165.8	157.8	155.8	153.8
77.5°	355.6	321.6	273.7	235.7	205.8	183.8	163.8	149.8	141.8	141.8	139.8
80°	321.6	289.7	243.7	209.8	183.8	161.8	145.8	133.8	127.9	125.9	125.9
82.5°	289.7	257.7	215.8	185.8	161.8	143.8	127.9	117.9	111.9	111.9	111.9
85°	259.7	229.7	191.8	163.8	141.8	125.9	111.9	101.9	97.9	95.9	97.9
87.5°	229.7	201.8	169.8	143.8	123.9	107.9	95.9	87.9	83.9	83.9	83.9
90°	201.8	175.8	145.8	121.9	105.9	91.9	81.9	73.9	71.9	69.9	69.9
92.5°	177.8	155.8	129.9	109.9	93.9	83.9	73.9	67.9	63.9	63.9	63.9
95°	155.8	135.8	115.9	97.9	85.9	75.9	67.9	61.9	59.9	59.9	59.9
97.5°	133.8	117.9	101.9	87.9	77.9	69.9	61.9	57.9	55.9	53.9	55.9
100°	111.9	99.9	87.9	77.9	69.9	61.9	55.9	51.9	49.9	49.9	49.9
102.5°	89.9	83.9	73.9	65.9	59.9	55.9	49.9	45.9	44.0	44.0	44.0
105°	77.9	71.9	65.9	59.9	55.9	49.9	45.9	42.0	40.0	40.0	40.0
107.5°	71.9	67.9	61.9	57.9	51.9	47.9	44.0	38.0	36.0	36.0	36.0
110°	69.9	65.9	61.9	55.9	51.9	47.9	44.0	36.0	34.0	34.0	34.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	69.9	65.9	61.9	57.9	53.9	47.9	44.0	36.0	32.0	32.0	32.0
115°	73.9	69.9	65.9	61.9	55.9	49.9	45.9	36.0	32.0	32.0	32.0
117.5°	79.9	75.9	71.9	65.9	59.9	53.9	45.9	36.0	34.0	34.0	34.0
120°	89.9	85.9	79.9	73.9	65.9	57.9	49.9	38.0	32.0	34.0	34.0
122.5°	103.9	99.9	91.9	81.9	73.9	63.9	51.9	40.0	30.0	34.0	34.0
125°	123.9	117.9	105.9	93.9	81.9	69.9	55.9	42.0	32.0	36.0	36.0
127.5°	145.8	137.8	121.9	105.9	91.9	75.9	59.9	44.0	34.0	36.0	36.0
130°	171.8	157.8	137.8	117.9	99.9	81.9	63.9	45.9	36.0	36.0	36.0
132.5°	197.8	177.8	151.8	129.9	107.9	85.9	65.9	45.9	36.0	36.0	36.0
135°	219.8	195.8	165.8	137.8	111.9	87.9	67.9	45.9	36.0	36.0	36.0
137.5°	239.7	207.8	173.8	141.8	113.9	87.9	65.9	45.9	34.0	34.0	34.0
140°	249.7	213.8	177.8	141.8	111.9	85.9	61.9	42.0	32.0	32.0	32.0
142.5°	249.7	211.8	173.8	137.8	107.9	81.9	57.9	40.0	28.0	30.0	30.0
145°	241.7	203.8	165.8	129.9	99.9	73.9	51.9	34.0	26.0	26.0	26.0
147.5°	223.7	187.8	151.8	117.9	89.9	63.9	45.9	30.0	22.0	20.0	22.0
150°	199.8	165.8	131.9	101.9	75.9	53.9	38.0	24.0	18.0	18.0	18.0
152.5°	167.8	137.8	109.9	83.9	59.9	42.0	28.0	18.0	14.0	14.0	14.0
155°	131.9	107.9	85.9	63.9	45.9	32.0	22.0	14.0	10.0	10.0	10.0
157.5°	99.9	81.9	63.9	45.9	34.0	24.0	16.0	10.0	8.0	8.0	8.0
160°	69.9	55.9	44.0	32.0	22.0	16.0	10.0	6.0	4.0	4.0	4.0
162.5°	44.0	36.0	28.0	18.0	14.0	10.0	6.0	4.0	2.0	2.0	2.0
165°	20.0	18.0	12.0	8.0	6.0	4.0	2.0	2.0	0.0	0.0	0.0
167.5°	6.0	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)