

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: P691614

Luminaire Tested: **CRTK2-C018-5TLD-U-T3-7050-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691614
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-C018-5TLD-U-T3-7050-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K LED WITH TYPE III OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6720 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B3 - U4 - G2

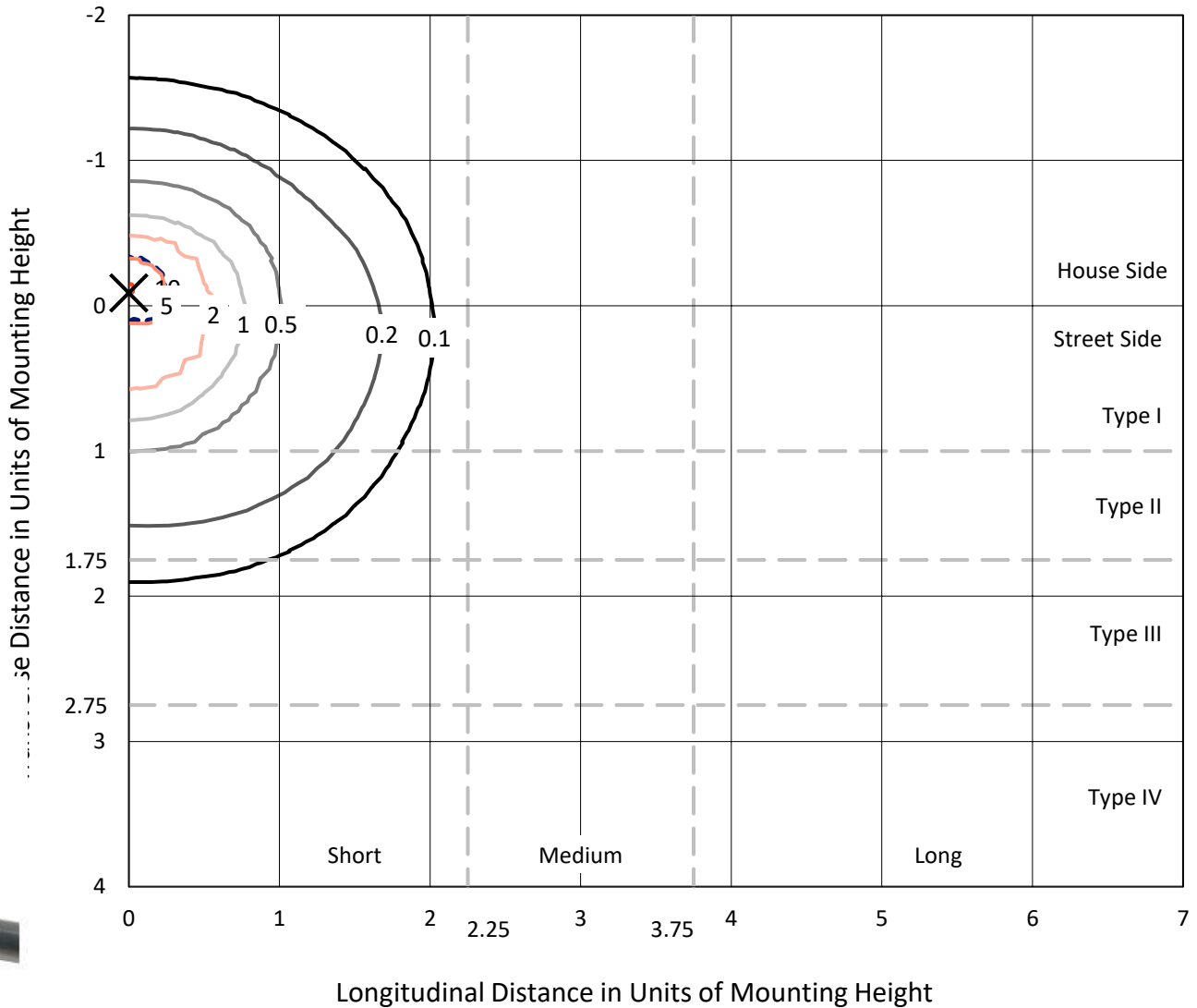
Input Watts (W): 53.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

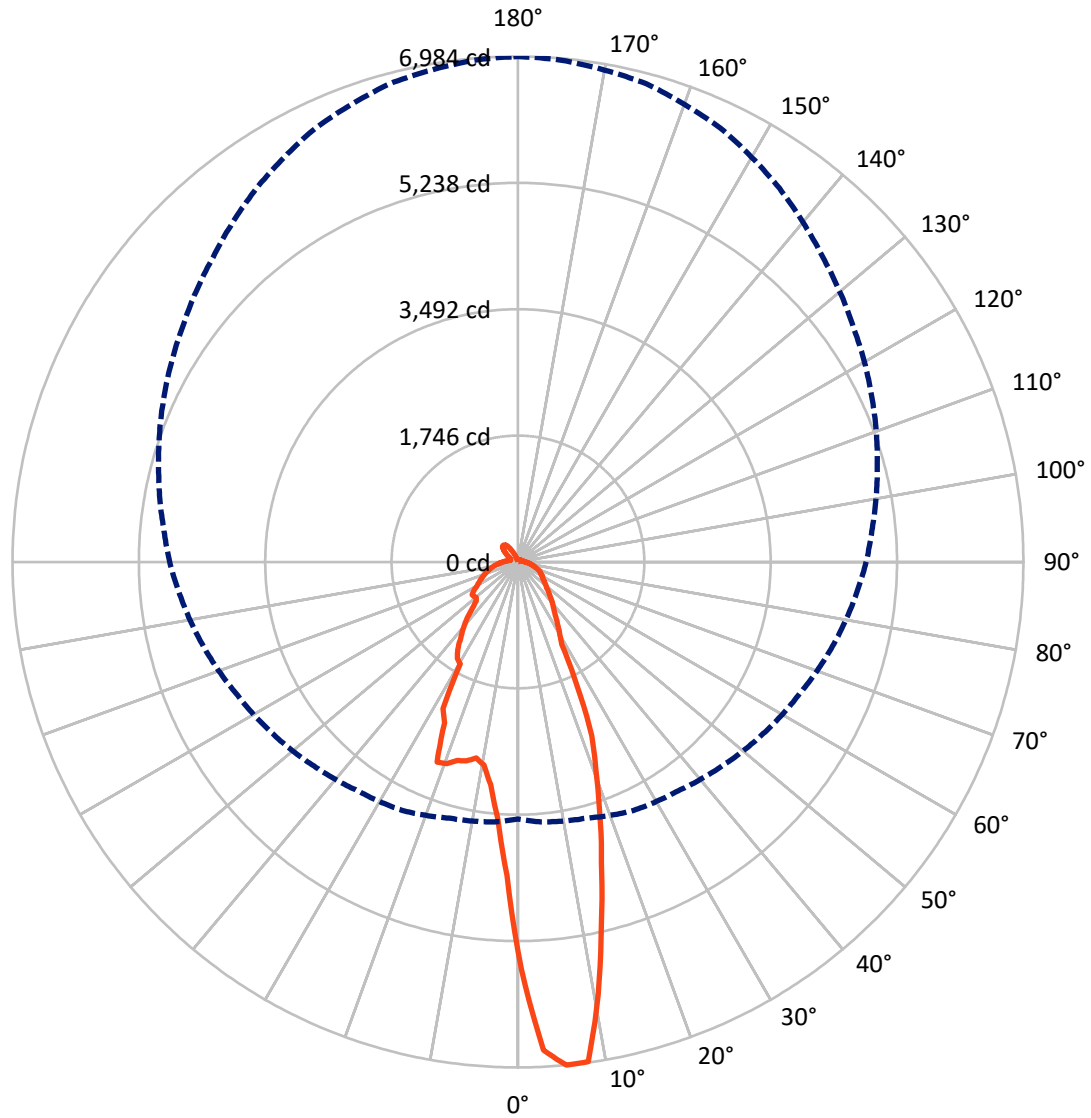
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 180-Deg Lateral - - - Horizontal Cone Through 5-Deg Vertical

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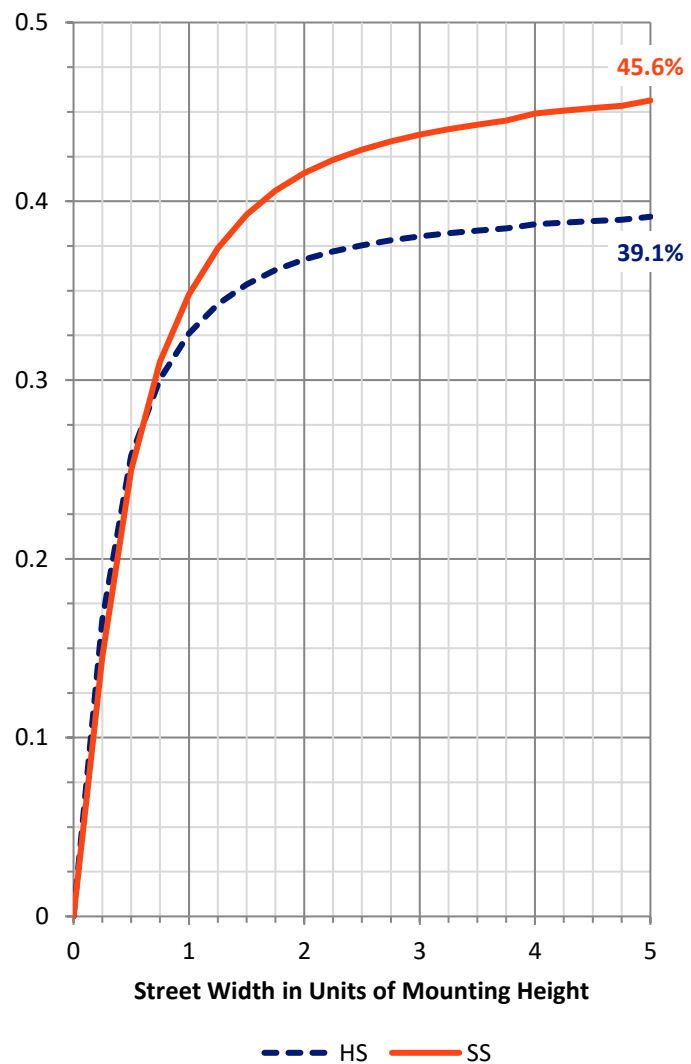
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2700.9	289.6	2990.5
	% Fixture	40.2	4.3	44.5
Street Side	Lumens	3151.9	577.6	3729.5
	% Fixture	46.9	8.6	55.5
Total	Lumens	5852.8	867.2	6720.0
	% Fixture	87.1	12.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.7	6.7
10°-20°	968.8	14.4
20°-30°	1066.7	15.9
30°-40°	783.8	11.7
40°-50°	656.7	9.8
50°-60°	658.9	9.8
60°-70°	564.3	8.4
70°-80°	420.5	6.3
80°-90°	281.3	4.2
90°-100°	167.1	2.5
100°-110°	97.0	1.4
110°-120°	90.2	1.3
120°-130°	130.9	1.9
130°-140°	176.1	2.6
140°-150°	142.6	2.1
150°-160°	56.4	0.8
160°-170°	6.9	0.1
170°-180°	0.0	0.0
0°-90°	5852.8	87.1
0°-180°	6720.0	100.0



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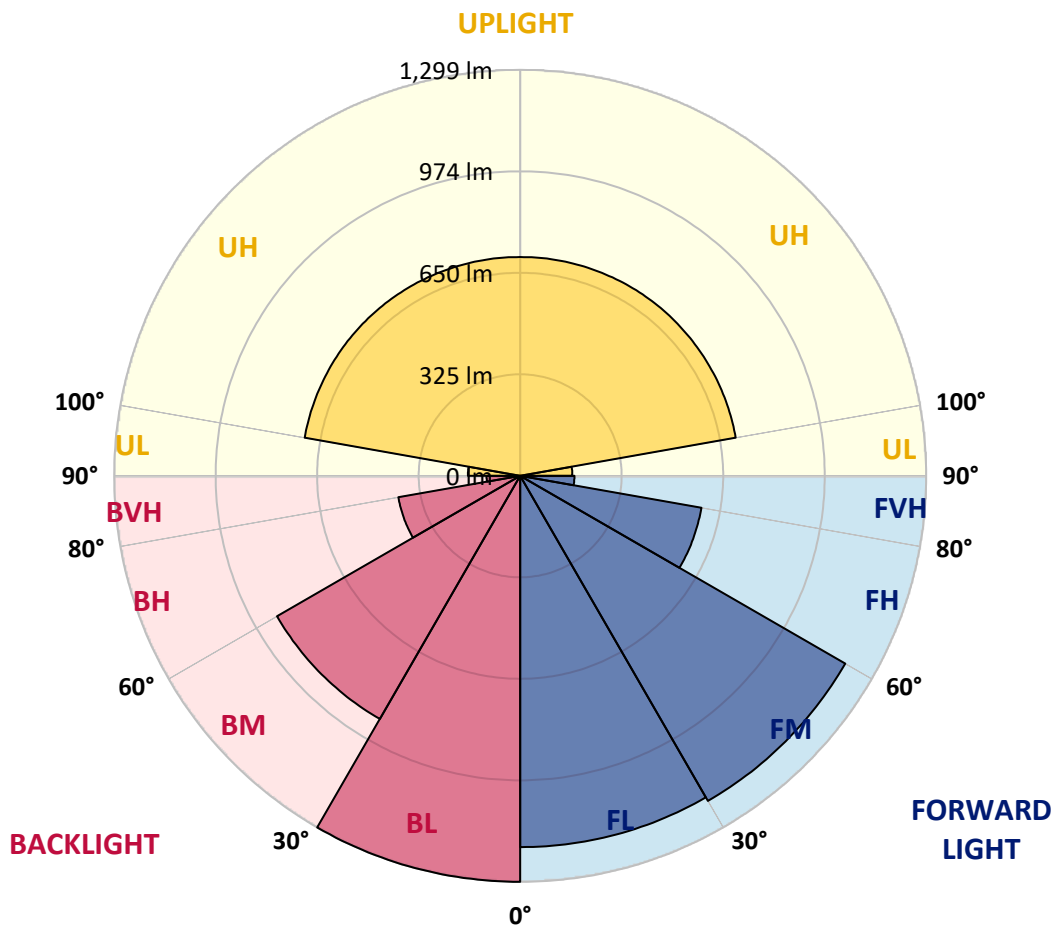
CATALOG NUMBER: CRTK2-C018-5TLD-U-T3-7050-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1188.1	17.7			
FM (30°-60°)	1201.2	17.9			
FH (60°-80°)	588.9	8.8			G0/660
FVH (80°-90°)	173.7	2.6			G2/225
BL (0°-30°)	1299.1	19.3	B3/2500		
BM (30°-60°)	898.3	13.4	B1/1000		
BH (60°-80°)	395.8	5.9	B1/500		G1/500
BVH (80°-90°)	107.7	1.6			G2/225
UL (90°-100°)	167.1	2.5		U3/500	
UH (100°-180°)	700.1	10.4		U4/1000	

BUG Rating: B3-U4-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5625.3	5625.3	5625.3	5625.3	5625.3	5625.3	5625.3	5625.3	5625.3	5625.3	5625.3
2.5°	4333.7	4397.8	4429.8	4525.8	4557.9	4619.2	4712.6	4806.0	4963.5	5080.9	5171.6
5°	3551.8	3605.2	3663.9	3786.7	3858.7	3986.8	4136.2	4296.4	4499.2	4704.6	4811.4
7.5°	3095.5	3108.9	3194.2	3343.7	3474.4	3610.5	3773.3	3912.1	4050.8	4219.0	4325.7
10°	2844.7	2863.3	2919.4	3034.1	3146.2	3258.3	3386.4	3493.1	3634.6	3776.0	3840.0
12.5°	2769.9	2778.0	2826.0	2892.7	2964.7	3036.8	3135.5	3231.6	3357.0	3479.8	3522.5
15°	2836.7	2836.7	2844.7	2871.4	2908.7	2964.7	3039.5	3122.2	3236.9	3327.7	3373.0
17.5°	2868.7	2871.4	2892.7	2898.0	2932.7	2956.7	3023.5	3087.5	3196.9	3271.6	3295.6
20°	2954.1	2954.1	2956.7	2970.1	2975.4	2988.8	3018.1	3052.8	3143.5	3183.6	3178.2
22.5°	2980.8	2970.1	3012.8	3090.2	3087.5	3090.2	3063.5	3071.5	3122.2	3106.2	3068.8
25°	2447.1	2433.7	2481.7	2529.8	2599.2	2687.2	2906.0	3076.8	3140.9	3090.2	3007.4
27.5°	2276.3	2217.6	2204.2	2089.5	1985.4	1814.6	1798.6	1691.9	1681.2	1747.9	1809.3
30°	1617.1	1619.8	1617.1	1606.5	1598.5	1606.5	1614.5	1595.8	1601.1	1643.8	1625.1
32.5°	1577.1	1577.1	1566.4	1561.1	1537.1	1529.1	1515.7	1481.0	1486.4	1518.4	1510.4
35°	1470.4	1465.0	1467.7	1454.4	1411.7	1377.0	1371.6	1342.3	1342.3	1361.0	1353.0
37.5°	1310.3	1302.2	1334.3	1331.6	1296.9	1283.6	1270.2	1251.5	1251.5	1267.6	1251.5
40°	1184.8	1179.5	1214.2	1224.9	1203.5	1208.8	1211.5	1195.5	1211.5	1214.2	1192.8
42.5°	1051.4	1048.7	1078.1	1075.4	1056.7	1054.1	1051.4	1040.7	1067.4	1088.8	1072.8
45°	894.0	886.0	907.3	915.3	910.0	902.0	899.3	899.3	915.3	926.0	910.0
47.5°	789.9	792.6	808.6	827.2	832.6	837.9	835.3	829.9	840.6	843.3	829.9
50°	755.2	757.9	781.9	803.2	819.2	829.9	829.9	821.9	829.9	821.9	803.2
52.5°	771.2	771.2	803.2	835.3	861.9	880.6	883.3	872.6	872.6	851.3	821.9
55°	776.5	781.9	824.6	878.0	926.0	976.7	1000.7	992.7	1000.7	955.3	907.3
57.5°	725.8	739.2	781.9	845.9	910.0	990.0	1040.7	1046.1	1043.4	1003.4	944.7
60°	659.1	669.8	699.2	755.2	816.6	880.6	931.3	942.0	952.7	934.0	880.6
62.5°	613.8	619.1	643.1	683.1	725.8	760.5	779.2	776.5	787.2	781.9	741.9
65°	573.7	576.4	603.1	635.1	661.8	696.5	701.8	701.8	709.8	699.2	667.1
67.5°	531.0	531.0	552.4	581.7	613.8	643.1	651.1	653.8	664.5	653.8	629.8
70°	493.7	493.7	512.4	536.4	560.4	589.7	597.8	600.4	613.8	600.4	576.4
72.5°	459.0	459.0	475.0	496.3	517.7	541.7	549.7	552.4	563.1	549.7	531.0
75°	421.6	424.3	437.6	456.3	475.0	496.3	507.0	507.0	515.0	499.0	483.0
77.5°	384.3	386.9	400.3	416.3	432.3	453.7	459.0	461.7	469.7	453.7	437.6
80°	346.9	352.2	362.9	376.3	392.3	408.3	419.0	419.0	424.3	408.3	397.6
82.5°	312.2	317.6	325.6	336.2	352.2	368.3	378.9	378.9	381.6	368.3	354.9
85°	277.5	282.9	290.9	298.9	312.2	328.2	338.9	338.9	341.6	328.2	317.6
87.5°	245.5	250.8	256.2	264.2	274.9	290.9	301.5	301.5	301.5	290.9	280.2
90°	213.5	216.2	221.5	229.5	240.2	253.5	261.5	264.2	264.2	250.8	245.5
92.5°	189.5	189.5	194.8	200.1	210.8	221.5	229.5	232.2	232.2	224.2	216.2
95°	162.8	165.4	168.1	173.5	181.5	189.5	200.1	200.1	200.1	194.8	189.5
97.5°	144.1	141.4	144.1	146.8	154.8	160.1	168.1	170.8	170.8	165.4	162.8
100°	122.8	125.4	125.4	128.1	130.8	133.4	138.8	141.4	141.4	138.8	138.8
102.5°	114.7	112.1	112.1	112.1	112.1	112.1	114.7	114.7	117.4	114.7	112.1
105°	106.7	106.7	106.7	106.7	104.1	104.1	104.1	104.1	101.4	98.7	98.7
107.5°	104.1	104.1	104.1	104.1	101.4	101.4	98.7	98.7	96.1	93.4	90.7
110°	104.1	104.1	104.1	104.1	101.4	98.7	98.7	96.1	93.4	90.7	88.1



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CATALOG NUMBER: CRTK2-C018-5TLD-U-T3-7050-RMARROA5

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	109.4	109.4	109.4	109.4	104.1	101.4	98.7	98.7	93.4	90.7	88.1
115°	120.1	120.1	117.4	117.4	114.7	109.4	106.7	104.1	101.4	96.1	93.4
117.5°	130.8	130.8	130.8	130.8	128.1	122.8	117.4	114.7	112.1	104.1	101.4
120°	149.4	149.4	149.4	152.1	146.8	141.4	136.1	130.8	128.1	120.1	114.7
122.5°	173.5	170.8	176.1	178.8	176.1	168.1	160.1	154.8	149.4	138.8	133.4
125°	197.5	197.5	202.8	210.8	210.8	202.8	192.1	184.1	178.8	162.8	154.8
127.5°	226.8	226.8	234.8	248.2	250.8	242.8	232.2	221.5	213.5	192.1	184.1
130°	253.5	253.5	269.5	285.5	293.5	285.5	274.9	261.5	250.8	226.8	213.5
132.5°	274.9	277.5	296.2	317.6	328.2	325.6	312.2	301.5	290.9	261.5	245.5
135°	296.2	298.9	320.2	346.9	360.3	360.3	349.6	336.2	322.9	290.9	272.2
137.5°	306.9	309.6	336.2	362.9	378.9	384.3	378.9	365.6	352.2	317.6	293.5
140°	306.9	312.2	338.9	365.6	381.6	389.6	389.6	376.3	362.9	330.9	306.9
142.5°	298.9	304.2	328.2	354.9	370.9	381.6	384.3	373.6	360.3	328.2	304.2
145°	282.9	285.5	309.6	333.6	349.6	362.9	368.3	360.3	344.2	317.6	293.5
147.5°	256.2	256.2	277.5	296.2	317.6	330.9	338.9	333.6	320.2	296.2	274.9
150°	218.8	218.8	234.8	253.5	272.2	288.2	296.2	296.2	282.9	264.2	242.8
152.5°	173.5	176.1	186.8	202.8	221.5	234.8	245.5	245.5	237.5	221.5	202.8
155°	133.4	133.4	141.4	152.1	168.1	181.5	189.5	189.5	184.1	170.8	160.1
157.5°	96.1	96.1	101.4	112.1	122.8	133.4	141.4	141.4	136.1	128.1	120.1
160°	64.0	64.0	66.7	74.7	82.7	90.7	96.1	98.7	96.1	90.7	82.7
162.5°	34.7	34.7	37.4	42.7	48.0	56.0	58.7	61.4	61.4	56.0	53.4
165°	10.7	10.7	10.7	16.0	18.7	24.0	26.7	29.4	29.4	29.4	26.7
167.5°	2.7	2.7	2.7	2.7	2.7	2.7	5.3	8.0	8.0	8.0	8.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	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°	5625.3	5625.3	5625.3	5625.3	5625.3	5625.3	5625.3	5625.3	5625.3	5625.3	5625.3
2.5°	5257.0	5454.5	5673.3	5897.5	6127.0	6343.1	6524.6	6668.7	6746.1	6764.8	6754.1
5°	4907.4	5139.6	5395.8	5657.3	5956.2	6300.4	6615.3	6842.1	6959.6	6978.2	6983.6
7.5°	4408.4	4611.2	4862.1	5163.6	5539.9	5908.2	6393.8	6732.7	6922.2	6972.9	6972.9
10°	3882.7	4061.5	4219.0	4483.1	4811.4	5155.6	5569.2	5881.5	6073.6	6135.0	6081.6
12.5°	3586.5	3663.9	3770.6	3965.5	4170.9	4432.4	4790.0	4992.8	5118.3	5155.6	5123.6
15°	3397.1	3437.1	3482.4	3565.2	3709.3	3872.1	4082.9	4208.3	4285.7	4331.0	4315.0
17.5°	3306.3	3306.3	3298.3	3317.0	3354.4	3429.1	3573.2	3618.5	3653.2	3671.9	3661.2
20°	3167.6	3124.9	3090.2	3036.8	3015.5	3012.8	3047.5	3095.5	3092.8	3095.5	3074.2
22.5°	3028.8	2940.7	2855.3	2775.3	2684.6	2639.2	2607.2	2623.2	2609.8	2623.2	2609.8
25°	2962.1	2783.3	2612.5	2417.7	2254.9	2129.5	2046.8	1996.1	1910.7	1942.7	1913.3
27.5°	1838.6	1763.9	1691.9	1547.8	1411.7	1363.6	1323.6	1302.2	1286.2	1294.2	1288.9
30°	1593.1	1531.7	1475.7	1401.0	1296.9	1232.9	1184.8	1142.1	1128.8	1131.5	1128.8
32.5°	1478.4	1430.3	1361.0	1283.6	1190.2	1110.1	1054.1	1014.0	992.7	1006.0	995.4
35°	1323.6	1275.6	1216.9	1144.8	1064.7	992.7	939.3	902.0	878.0	883.3	880.6
37.5°	1222.2	1176.8	1126.1	1048.7	979.4	910.0	856.6	819.2	795.2	800.6	795.2
40°	1163.5	1112.8	1059.4	990.0	920.6	848.6	797.9	755.2	731.2	731.2	731.2
42.5°	1043.4	1003.4	958.0	886.0	824.6	763.2	712.5	680.5	653.8	656.5	651.1
45°	891.3	861.9	827.2	779.2	728.5	680.5	637.8	613.8	592.4	595.1	592.4
47.5°	813.9	787.2	747.2	709.8	664.5	621.8	584.4	555.1	539.0	541.7	536.4
50°	784.6	752.5	707.2	656.5	613.8	571.1	533.7	512.4	496.3	499.0	496.3
52.5°	795.2	744.5	680.5	619.1	568.4	525.7	496.3	472.3	461.7	464.3	459.0
55°	864.6	776.5	680.5	603.1	539.0	491.0	461.7	435.0	424.3	424.3	424.3
57.5°	888.6	792.6	672.5	584.4	515.0	467.0	432.3	405.6	394.9	394.9	394.9
60°	832.6	749.9	640.4	557.7	493.7	448.3	419.0	400.3	392.3	392.3	392.3
62.5°	712.5	659.1	576.4	509.7	461.7	421.6	392.3	368.3	360.3	357.6	357.6
65°	645.8	595.1	525.7	469.7	427.0	394.9	368.3	349.6	338.9	338.9	338.9
67.5°	603.1	555.1	491.0	437.6	397.6	362.9	338.9	320.2	314.9	312.2	312.2
70°	555.1	509.7	445.6	397.6	360.3	330.9	306.9	290.9	285.5	285.5	282.9
72.5°	507.0	464.3	402.9	357.6	322.9	296.2	274.9	261.5	256.2	253.5	253.5
75°	461.7	419.0	362.9	320.2	288.2	264.2	245.5	232.2	226.8	226.8	226.8
77.5°	419.0	378.9	325.6	285.5	258.8	234.8	218.8	208.1	202.8	202.8	202.8
80°	378.9	338.9	290.9	253.5	226.8	208.1	194.8	184.1	178.8	181.5	178.8
82.5°	336.2	304.2	258.8	224.2	202.8	184.1	170.8	162.8	157.4	160.1	157.4
85°	301.5	269.5	226.8	197.5	176.1	160.1	149.4	141.4	136.1	138.8	136.1
87.5°	266.9	237.5	200.1	173.5	154.8	141.4	128.1	122.8	120.1	120.1	117.4
90°	229.5	202.8	170.8	149.4	130.8	120.1	109.4	104.1	101.4	98.7	98.7
92.5°	202.8	181.5	152.1	133.4	117.4	109.4	98.7	93.4	90.7	90.7	90.7
95°	178.8	160.1	136.1	120.1	109.4	98.7	90.7	88.1	85.4	85.4	82.7
97.5°	154.8	138.8	122.8	109.4	98.7	90.7	82.7	80.1	77.4	77.4	77.4
100°	130.8	120.1	106.7	96.1	88.1	82.7	74.7	72.1	69.4	69.4	69.4
102.5°	109.4	101.4	90.7	82.7	77.4	72.1	66.7	64.0	61.4	61.4	61.4
105°	96.1	88.1	82.7	74.7	69.4	64.0	61.4	56.0	53.4	53.4	53.4
107.5°	88.1	82.7	77.4	72.1	66.7	61.4	56.0	50.7	48.0	48.0	48.0
110°	85.4	80.1	74.7	69.4	64.0	58.7	56.0	48.0	45.4	45.4	45.4



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	85.4	82.7	77.4	72.1	66.7	61.4	56.0	45.4	42.7	42.7	42.7
115°	90.7	85.4	80.1	74.7	69.4	64.0	58.7	45.4	42.7	42.7	42.7
117.5°	98.7	93.4	85.4	80.1	74.7	66.7	58.7	48.0	42.7	42.7	42.7
120°	112.1	104.1	96.1	88.1	80.1	72.1	61.4	48.0	40.0	42.7	42.7
122.5°	128.1	120.1	106.7	96.1	88.1	77.4	64.0	50.7	40.0	42.7	42.7
125°	149.4	138.8	122.8	109.4	96.1	82.7	66.7	50.7	40.0	42.7	45.4
127.5°	173.5	157.4	138.8	120.1	104.1	88.1	72.1	53.4	40.0	45.4	45.4
130°	200.1	181.5	157.4	133.4	114.7	93.4	74.7	53.4	42.7	42.7	42.7
132.5°	229.5	202.8	170.8	144.1	120.1	96.1	74.7	53.4	42.7	42.7	42.7
135°	250.8	218.8	184.1	152.1	125.4	98.7	77.4	53.4	40.0	40.0	40.0
137.5°	269.5	232.2	194.8	157.4	128.1	98.7	74.7	50.7	40.0	37.4	37.4
140°	280.2	237.5	194.8	157.4	125.4	96.1	69.4	48.0	34.7	34.7	34.7
142.5°	280.2	234.8	192.1	152.1	117.4	90.7	66.7	42.7	32.0	32.0	32.0
145°	269.5	224.2	181.5	144.1	109.4	82.7	58.7	40.0	29.4	29.4	29.4
147.5°	250.8	205.5	165.4	130.8	96.1	72.1	50.7	32.0	24.0	24.0	24.0
150°	224.2	181.5	144.1	112.1	82.7	58.7	42.7	26.7	18.7	18.7	18.7
152.5°	186.8	152.1	117.4	93.4	66.7	48.0	32.0	21.3	16.0	16.0	16.0
155°	146.8	120.1	93.4	72.1	50.7	34.7	24.0	16.0	10.7	10.7	10.7
157.5°	112.1	90.7	69.4	53.4	37.4	26.7	18.7	10.7	8.0	8.0	8.0
160°	77.4	61.4	48.0	37.4	24.0	18.7	13.3	8.0	5.3	5.3	5.3
162.5°	50.7	40.0	29.4	21.3	16.0	10.7	8.0	5.3	2.7	2.7	2.7
165°	24.0	18.7	16.0	10.7	8.0	5.3	2.7	2.7	0.0	0.0	0.0
167.5°	8.0	5.3	5.3	2.7	2.7	2.7	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)