

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: P691705

Luminaire Tested: **CRTK2-C018-D-U-T3-7050-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-16)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C018-D-U-T3-7050-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K LED WITH TYPE III OPTIC AND NEMA REFRACTOR WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5293 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B3 - U4 - G2

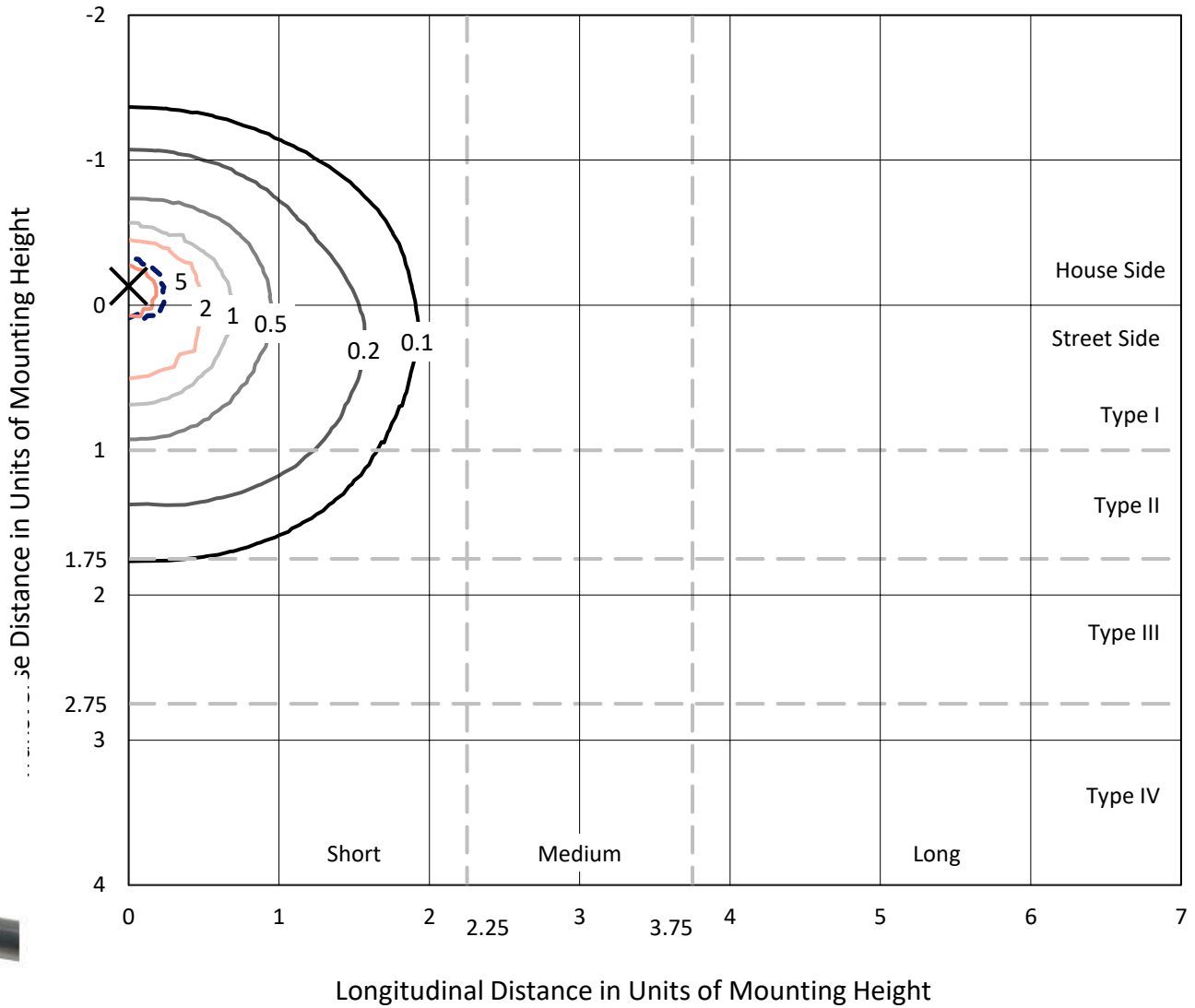
Input Watts (W): 50.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

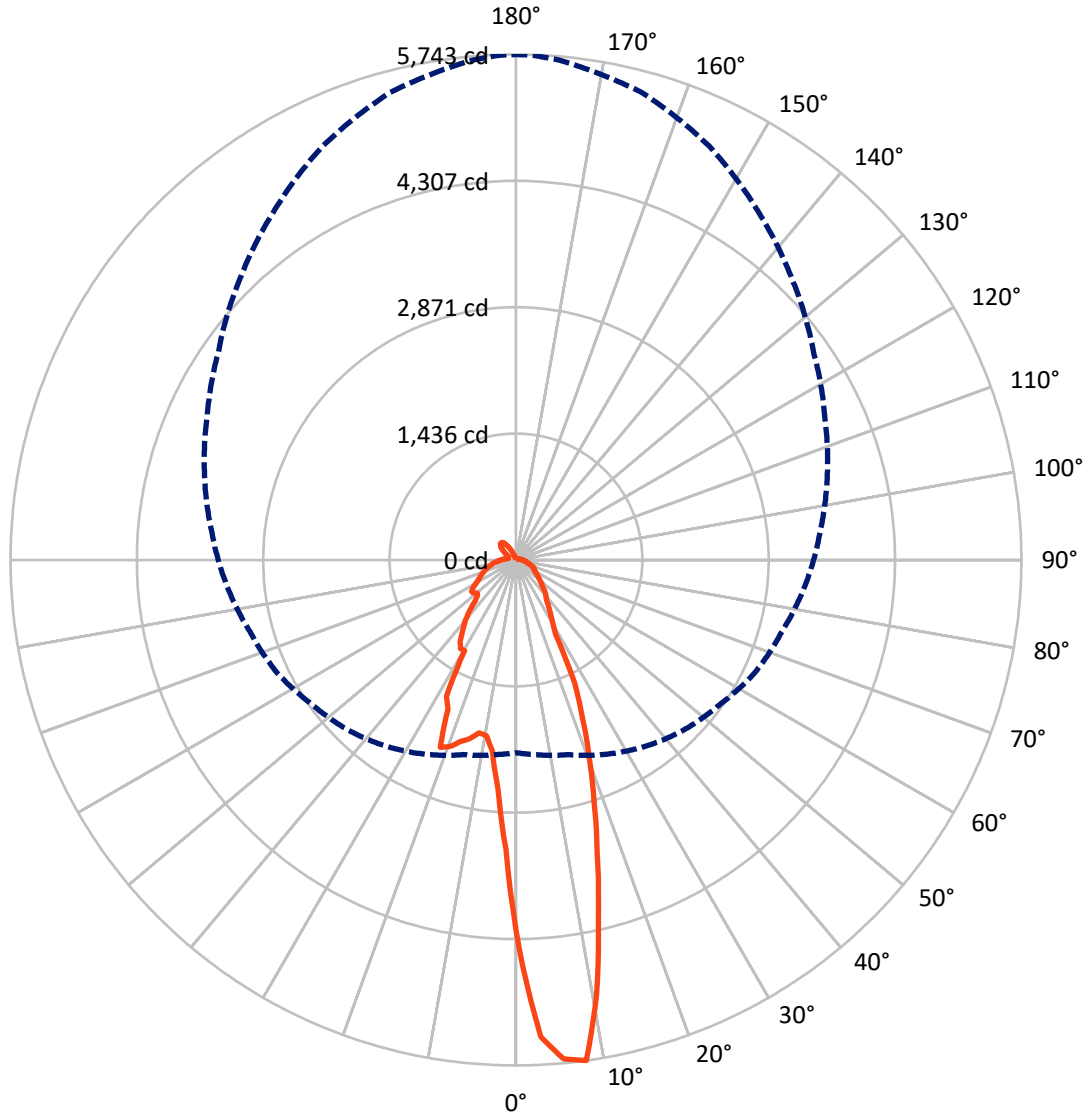
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 180-Deg Lateral - - - Horizontal Cone Through 7.5-Deg Vertical

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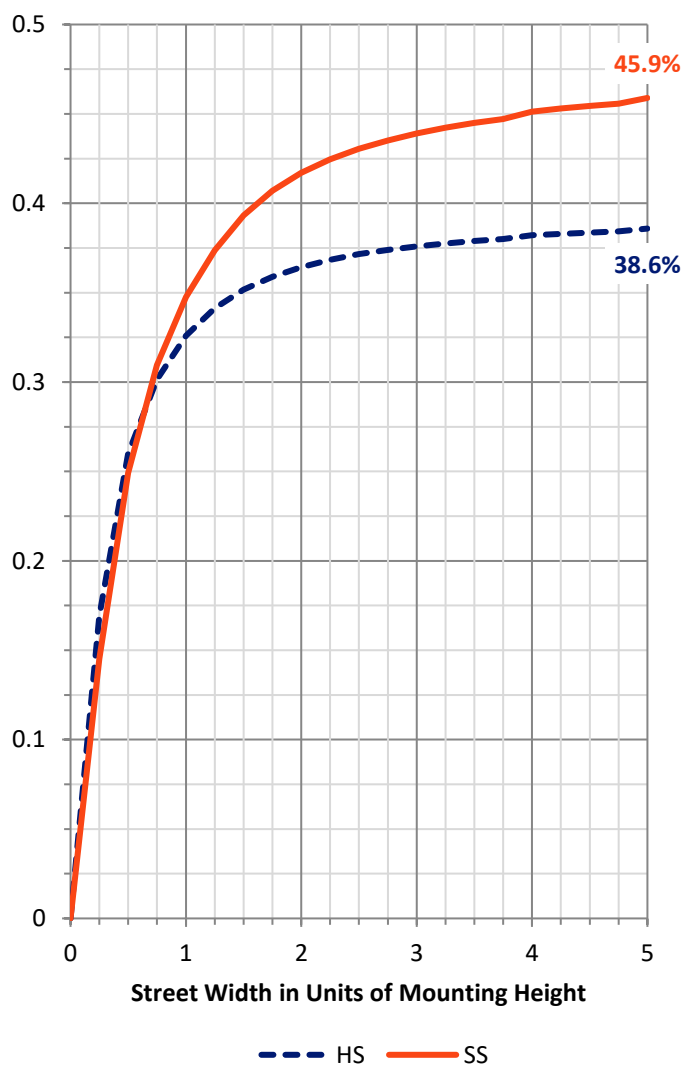
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2095.6	218.5	2314.1
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	2499.0	479.9	2978.9
	% Fixture	47.2	9.1	56.3
Total	Lumens	4594.6	698.5	5293.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.6	6.7
10°-20°	758.6	14.3
20°-30°	837.7	15.8
30°-40°	607.6	11.5
40°-50°	511.9	9.7
50°-60°	522.6	9.9
60°-70°	445.4	8.4
70°-80°	332.0	6.3
80°-90°	224.1	4.2
90°-100°	134.0	2.5
100°-110°	77.1	1.5
110°-120°	72.0	1.4
120°-130°	104.9	2.0
130°-140°	142.6	2.7
140°-150°	116.0	2.2
150°-160°	46.3	0.9
160°-170°	5.6	0.1
170°-180°	0.0	0.0
0°-90°	4594.6	86.8
0°-180°	5293.0	100.0

Coefficient of Utilization



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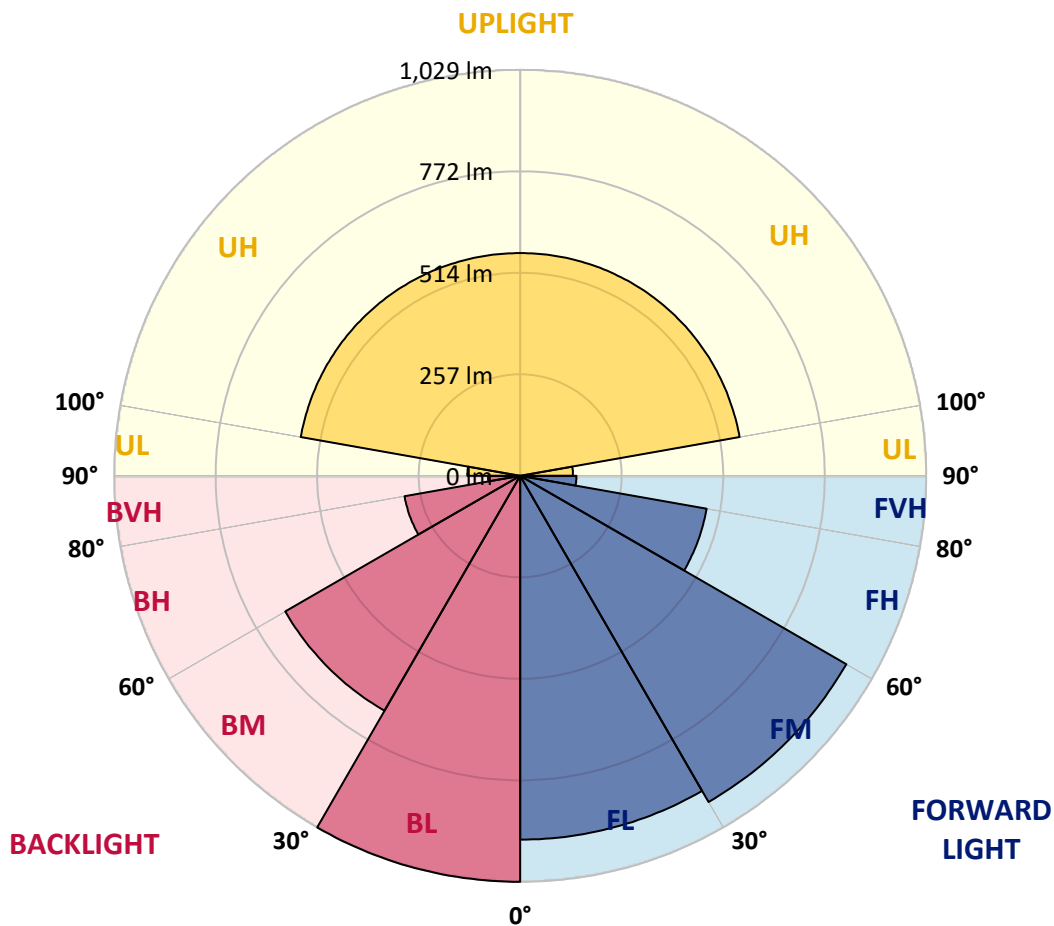
CATALOG NUMBER: CRTK2-C018-D-U-T3-7050-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	922.0	17.4			
FM (30°-60°)	954.6	18.0			
FH (60°-80°)	479.8	9.1			G0/660
FVH (80°-90°)	142.6	2.7			G2/225
BL (0°-30°)	1028.9	19.4	B3/2500		
BM (30°-60°)	687.5	13.0	B1/1000		
BH (60°-80°)	297.6	5.6	B1/500		G1/500
BVH (80°-90°)	81.5	1.5			G1/100
UL (90°-100°)	134.0	2.5		U3/500	
UH (100°-180°)	564.5	10.7		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°	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0
2.5°	3284.8	3361.1	3368.0	3451.1	3513.5	3571.3	3612.8	3733.0	3855.4	3970.9	4037.9
5°	2608.0	2645.0	2711.9	2802.0	2917.5	3007.6	3137.0	3305.6	3467.3	3670.6	3769.9
7.5°	2189.9	2217.6	2289.2	2434.7	2580.3	2718.9	2843.6	3005.3	3130.1	3298.7	3381.8
10°	2023.6	2039.7	2099.8	2201.4	2340.0	2455.5	2564.1	2686.5	2797.4	2952.2	3012.2
12.5°	2007.4	2014.3	2062.8	2134.4	2215.3	2310.0	2400.1	2504.0	2621.9	2744.3	2790.5
15°	2095.2	2090.6	2106.7	2148.3	2194.5	2268.4	2351.6	2446.3	2559.5	2649.6	2686.5
17.5°	2157.5	2155.2	2185.3	2203.7	2247.6	2291.5	2374.7	2448.6	2559.5	2631.1	2651.9
20°	2247.6	2252.3	2261.5	2296.1	2314.6	2344.7	2395.5	2439.4	2534.1	2575.7	2571.0
22.5°	2296.1	2293.8	2333.1	2414.0	2434.7	2450.9	2460.2	2478.6	2531.8	2529.5	2494.8
25°	1861.9	1866.5	1875.7	1945.0	2032.8	2176.0	2293.8	2478.6	2578.0	2541.0	2467.1
27.5°	1739.4	1725.6	1677.1	1637.8	1520.0	1441.4	1367.5	1335.2	1351.4	1379.1	1455.3
30°	1185.0	1187.3	1192.0	1198.9	1210.4	1240.5	1261.3	1263.6	1279.7	1325.9	1309.8
32.5°	1187.3	1189.7	1182.7	1189.7	1185.0	1196.6	1194.3	1185.0	1198.9	1240.5	1224.3
35°	1115.7	1111.1	1115.7	1118.0	1092.6	1083.4	1081.1	1074.2	1083.4	1104.2	1090.3
37.5°	1004.9	1002.5	1023.3	1034.9	1014.1	1014.1	1009.5	1000.2	1007.2	1025.6	1007.2
40°	907.8	910.1	940.2	958.7	951.7	958.7	965.6	963.3	979.4	986.4	963.3
42.5°	801.6	797.0	827.0	840.8	827.0	831.6	829.3	831.6	863.9	877.8	861.6
45°	669.9	676.8	690.7	709.2	706.9	713.8	711.5	716.1	736.9	743.8	732.3
47.5°	596.0	600.6	616.8	637.6	649.1	660.7	660.7	663.0	676.8	679.1	667.6
50°	579.8	584.4	605.2	628.3	646.8	660.7	667.6	665.3	672.2	667.6	651.4
52.5°	607.5	607.5	639.9	667.6	690.7	716.1	725.3	716.1	716.1	697.6	672.2
55°	619.1	621.4	660.7	709.2	753.1	799.3	829.3	827.0	824.7	794.6	748.4
57.5°	582.1	589.1	628.3	683.8	743.8	817.7	861.6	868.6	868.6	829.3	778.5
60°	529.0	533.6	563.6	609.8	669.9	725.3	771.5	776.2	790.0	769.2	723.0
62.5°	485.1	489.7	515.1	549.8	593.7	628.3	642.2	642.2	649.1	642.2	609.8
65°	452.8	455.1	475.9	505.9	535.9	563.6	577.5	572.9	582.1	572.9	547.5
67.5°	422.7	422.7	441.2	464.3	492.0	524.4	533.6	538.2	547.5	535.9	512.8
70°	392.7	395.0	413.5	432.0	457.4	480.5	489.7	492.0	503.6	489.7	473.6
72.5°	367.3	367.3	383.5	401.9	420.4	443.5	450.5	455.1	462.0	448.1	434.3
75°	337.3	339.6	353.4	369.6	385.8	408.9	415.8	418.1	425.0	408.9	395.0
77.5°	309.5	311.9	323.4	337.3	353.4	371.9	378.8	383.5	385.8	371.9	358.1
80°	281.8	284.1	293.4	307.2	321.1	339.6	344.2	346.5	351.1	335.0	325.7
82.5°	256.4	256.4	263.3	274.9	288.8	304.9	311.9	314.2	316.5	302.6	293.4
85°	226.4	226.4	233.3	244.9	256.4	272.6	279.5	281.8	281.8	270.3	261.0
87.5°	201.0	201.0	205.6	214.8	224.1	240.2	247.2	251.8	249.5	240.2	231.0
90°	175.6	175.6	180.2	187.1	196.4	210.2	217.1	219.5	219.5	207.9	201.0
92.5°	152.5	152.5	157.1	164.0	170.9	182.5	189.4	194.0	194.0	184.8	177.9
95°	131.7	131.7	134.0	140.9	147.8	157.1	161.7	166.3	166.3	161.7	154.8
97.5°	113.2	113.2	115.5	120.1	124.7	131.7	136.3	140.9	140.9	138.6	134.0
100°	99.3	99.3	99.3	101.6	106.3	108.6	113.2	117.8	117.8	115.5	113.2
102.5°	90.1	90.1	90.1	90.1	90.1	92.4	92.4	94.7	94.7	94.7	92.4
105°	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	83.2	80.9	78.5
107.5°	85.5	83.2	83.2	83.2	83.2	80.9	80.9	80.9	78.5	76.2	73.9
110°	85.5	85.5	85.5	85.5	83.2	80.9	80.9	78.5	76.2	73.9	71.6



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CATALOG NUMBER: CRTK2-C018-D-U-T3-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	90.1	90.1	90.1	87.8	85.5	85.5	83.2	80.9	78.5	73.9	71.6
115°	97.0	97.0	97.0	97.0	94.7	90.1	87.8	85.5	80.9	78.5	76.2
117.5°	108.6	108.6	108.6	108.6	104.0	101.6	97.0	94.7	90.1	85.5	83.2
120°	122.4	122.4	124.7	124.7	122.4	117.8	110.9	108.6	104.0	97.0	92.4
122.5°	143.2	140.9	145.5	145.5	145.5	140.9	131.7	127.1	122.4	113.2	108.6
125°	164.0	164.0	168.6	173.3	175.6	168.6	159.4	152.5	145.5	134.0	127.1
127.5°	187.1	187.1	196.4	205.6	210.2	203.3	191.7	184.8	175.6	159.4	150.2
130°	210.2	210.2	224.1	237.9	244.9	240.2	228.7	219.5	207.9	187.1	175.6
132.5°	231.0	231.0	247.2	265.7	274.9	272.6	261.0	251.8	242.6	217.1	201.0
135°	247.2	249.5	270.3	291.1	302.6	304.9	293.4	281.8	270.3	242.6	224.1
137.5°	256.4	261.0	281.8	307.2	318.8	325.7	318.8	307.2	293.4	263.3	242.6
140°	258.7	261.0	284.1	309.5	321.1	330.3	330.3	316.5	304.9	274.9	251.8
142.5°	251.8	254.1	277.2	300.3	311.9	323.4	325.7	314.2	302.6	274.9	251.8
145°	235.6	240.2	261.0	279.5	295.7	307.2	311.9	304.9	291.1	265.7	244.9
147.5°	214.8	217.1	235.6	251.8	268.0	281.8	288.8	281.8	270.3	247.2	228.7
150°	182.5	184.8	198.7	212.5	231.0	244.9	254.1	249.5	240.2	221.8	203.3
152.5°	147.8	147.8	159.4	170.9	187.1	201.0	210.2	207.9	201.0	184.8	170.9
155°	113.2	113.2	120.1	129.4	143.2	152.5	161.7	161.7	157.1	145.5	134.0
157.5°	80.9	80.9	87.8	94.7	104.0	113.2	120.1	120.1	117.8	108.6	101.6
160°	53.1	53.1	57.8	62.4	71.6	76.2	83.2	83.2	80.9	76.2	71.6
162.5°	27.7	27.7	32.3	34.7	41.6	46.2	50.8	53.1	53.1	48.5	46.2
165°	9.2	9.2	9.2	11.6	16.2	20.8	23.1	25.4	25.4	23.1	23.1
167.5°	2.3	2.3	2.3	2.3	2.3	2.3	4.6	6.9	6.9	6.9	6.9
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°	178°	180°
0°	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0
2.5°	4109.5	4319.7	4499.9	4689.3	4899.5	5077.4	5257.6	5356.9	5442.4	5426.2	5426.2
5°	3866.9	4077.2	4296.6	4527.6	4811.7	5102.8	5380.0	5578.7	5682.6	5698.8	5696.5
7.5°	3465.0	3661.4	3869.3	4125.7	4458.3	4814.0	5190.6	5502.4	5698.8	5735.7	5742.7
10°	3067.7	3215.5	3391.1	3566.6	3864.6	4190.3	4527.6	4777.1	4968.8	4996.5	5028.9
12.5°	2829.8	2910.6	3023.8	3146.2	3340.3	3578.2	3855.4	3998.6	4121.0	4134.9	4164.9
15°	2707.3	2746.6	2774.3	2818.2	2933.7	3081.5	3208.6	3349.5	3400.3	3435.0	3451.1
17.5°	2658.8	2654.2	2626.5	2626.5	2635.7	2691.2	2772.0	2820.5	2852.9	2869.0	2873.6
20°	2559.5	2517.9	2462.5	2388.5	2349.3	2330.8	2351.6	2363.1	2353.9	2342.3	2363.1
22.5°	2455.5	2367.8	2268.4	2183.0	2081.3	2018.9	1958.9	1938.1	1912.7	1928.9	1928.9
25°	2423.2	2268.4	2109.0	1965.8	1813.4	1709.4	1598.5	1559.3	1520.0	1552.3	1552.3
27.5°	1432.2	1432.2	1342.1	1222.0	1090.3	1034.9	991.0	965.6	949.4	956.3	956.3
30°	1282.1	1222.0	1166.6	1090.3	988.7	921.7	863.9	829.3	813.1	808.5	813.1
32.5°	1189.7	1143.5	1076.5	1000.2	910.1	836.2	771.5	736.9	711.5	716.1	718.4
35°	1064.9	1016.4	958.7	887.0	810.8	741.5	683.8	649.1	626.0	626.0	628.3
37.5°	986.4	937.9	882.4	817.7	743.8	676.8	623.7	582.1	561.3	559.0	559.0
40°	937.9	889.4	838.5	773.9	704.6	635.3	582.1	545.2	519.8	519.8	522.1
42.5°	850.1	803.9	760.0	702.2	639.9	579.8	529.0	496.7	471.2	466.6	471.2
45°	716.1	690.7	656.0	616.8	563.6	515.1	468.9	441.2	420.4	420.4	418.1
47.5°	656.0	630.6	593.7	554.4	510.5	462.0	425.0	399.6	381.2	381.2	381.2
50°	632.9	605.2	559.0	515.1	464.3	422.7	390.4	365.0	351.1	351.1	348.8
52.5°	644.5	600.6	540.5	478.2	429.7	388.1	355.7	330.3	318.8	318.8	316.5
55°	706.9	628.3	540.5	464.3	406.6	360.4	328.0	300.3	288.8	288.8	288.8
57.5°	732.3	644.5	535.9	450.5	385.8	337.3	298.0	272.6	261.0	261.0	258.7
60°	686.1	612.2	512.8	432.0	369.6	321.1	284.1	258.7	244.9	244.9	242.6
62.5°	584.4	531.3	455.1	395.0	346.5	302.6	270.3	244.9	233.3	233.3	233.3
65°	524.4	478.2	418.1	365.0	321.1	284.1	254.1	233.3	221.8	221.8	221.8
67.5°	489.7	450.5	390.4	339.6	295.7	261.0	233.3	214.8	205.6	203.3	205.6
70°	452.8	411.2	355.7	307.2	268.0	235.6	210.2	191.7	182.5	182.5	182.5
72.5°	413.5	374.2	321.1	277.2	237.9	212.5	187.1	170.9	161.7	161.7	159.4
75°	376.5	337.3	286.4	244.9	212.5	187.1	166.3	152.5	143.2	143.2	143.2
77.5°	341.9	304.9	256.4	219.5	189.4	168.6	147.8	136.3	129.4	129.4	127.1
80°	309.5	274.9	228.7	196.4	168.6	150.2	131.7	122.4	115.5	115.5	115.5
82.5°	277.2	244.9	203.3	173.3	150.2	131.7	117.8	108.6	104.0	101.6	104.0
85°	247.2	217.1	180.2	152.5	131.7	115.5	104.0	94.7	90.1	90.1	90.1
87.5°	219.5	191.7	159.4	134.0	115.5	101.6	90.1	83.2	80.9	78.5	78.5
90°	189.4	164.0	136.3	115.5	99.3	87.8	76.2	71.6	67.0	67.0	67.0
92.5°	168.6	147.8	122.4	104.0	90.1	80.9	71.6	67.0	62.4	62.4	62.4
95°	147.8	129.4	108.6	94.7	83.2	73.9	67.0	62.4	60.1	60.1	60.1
97.5°	127.1	113.2	97.0	85.5	76.2	69.3	62.4	57.8	55.4	55.4	55.4
100°	106.3	97.0	85.5	76.2	69.3	62.4	55.4	53.1	50.8	50.8	50.8
102.5°	87.8	80.9	71.6	64.7	57.8	53.1	48.5	46.2	43.9	43.9	43.9
105°	76.2	71.6	64.7	57.8	53.1	48.5	43.9	39.3	39.3	39.3	39.3
107.5°	71.6	64.7	60.1	55.4	50.8	43.9	41.6	37.0	34.7	34.7	34.7
110°	69.3	64.7	60.1	53.1	48.5	43.9	39.3	34.7	32.3	32.3	32.3



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	69.3	64.7	60.1	55.4	50.8	43.9	41.6	32.3	30.0	30.0	30.0
115°	73.9	69.3	62.4	57.8	50.8	46.2	41.6	32.3	30.0	30.0	30.0
117.5°	78.5	73.9	67.0	62.4	55.4	48.5	41.6	32.3	30.0	30.0	30.0
120°	90.1	83.2	73.9	67.0	60.1	50.8	43.9	32.3	27.7	30.0	30.0
122.5°	101.6	94.7	83.2	73.9	64.7	55.4	43.9	32.3	27.7	30.0	30.0
125°	120.1	108.6	94.7	83.2	69.3	57.8	46.2	32.3	25.4	27.7	30.0
127.5°	140.9	127.1	108.6	92.4	76.2	60.1	46.2	32.3	25.4	27.7	27.7
130°	164.0	145.5	122.4	99.3	80.9	62.4	46.2	32.3	25.4	27.7	27.7
132.5°	187.1	161.7	134.0	108.6	85.5	64.7	46.2	30.0	25.4	25.4	25.4
135°	205.6	175.6	143.2	113.2	87.8	64.7	43.9	30.0	23.1	23.1	23.1
137.5°	221.8	187.1	150.2	115.5	87.8	62.4	41.6	27.7	20.8	20.8	20.8
140°	231.0	191.7	152.5	113.2	83.2	60.1	39.3	25.4	18.5	18.5	18.5
142.5°	231.0	189.4	147.8	110.9	78.5	55.4	34.7	20.8	16.2	16.2	16.2
145°	221.8	180.2	140.9	104.0	71.6	48.5	30.0	18.5	13.9	13.9	13.9
147.5°	207.9	166.3	129.4	94.7	64.7	41.6	25.4	16.2	11.6	11.6	11.6
150°	184.8	147.8	113.2	80.9	55.4	34.7	20.8	13.9	9.2	9.2	9.2
152.5°	154.8	122.4	94.7	67.0	46.2	27.7	18.5	9.2	6.9	6.9	6.9
155°	122.4	97.0	73.9	53.1	34.7	20.8	13.9	9.2	4.6	4.6	4.6
157.5°	92.4	71.6	55.4	39.3	25.4	16.2	9.2	6.9	4.6	4.6	4.6
160°	64.7	50.8	37.0	25.4	16.2	11.6	6.9	4.6	2.3	2.3	2.3
162.5°	41.6	32.3	23.1	16.2	9.2	6.9	4.6	2.3	2.3	2.3	0.0
165°	20.8	16.2	11.6	6.9	4.6	2.3	2.3	2.3	0.0	0.0	0.0
167.5°	4.6	4.6	4.6	2.3	2.3	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)