

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: P691521

Luminaire Tested: **CRTK2-C016-D-U-T3-7050-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691521
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-C016-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: 4538 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B2 - U3 - G2

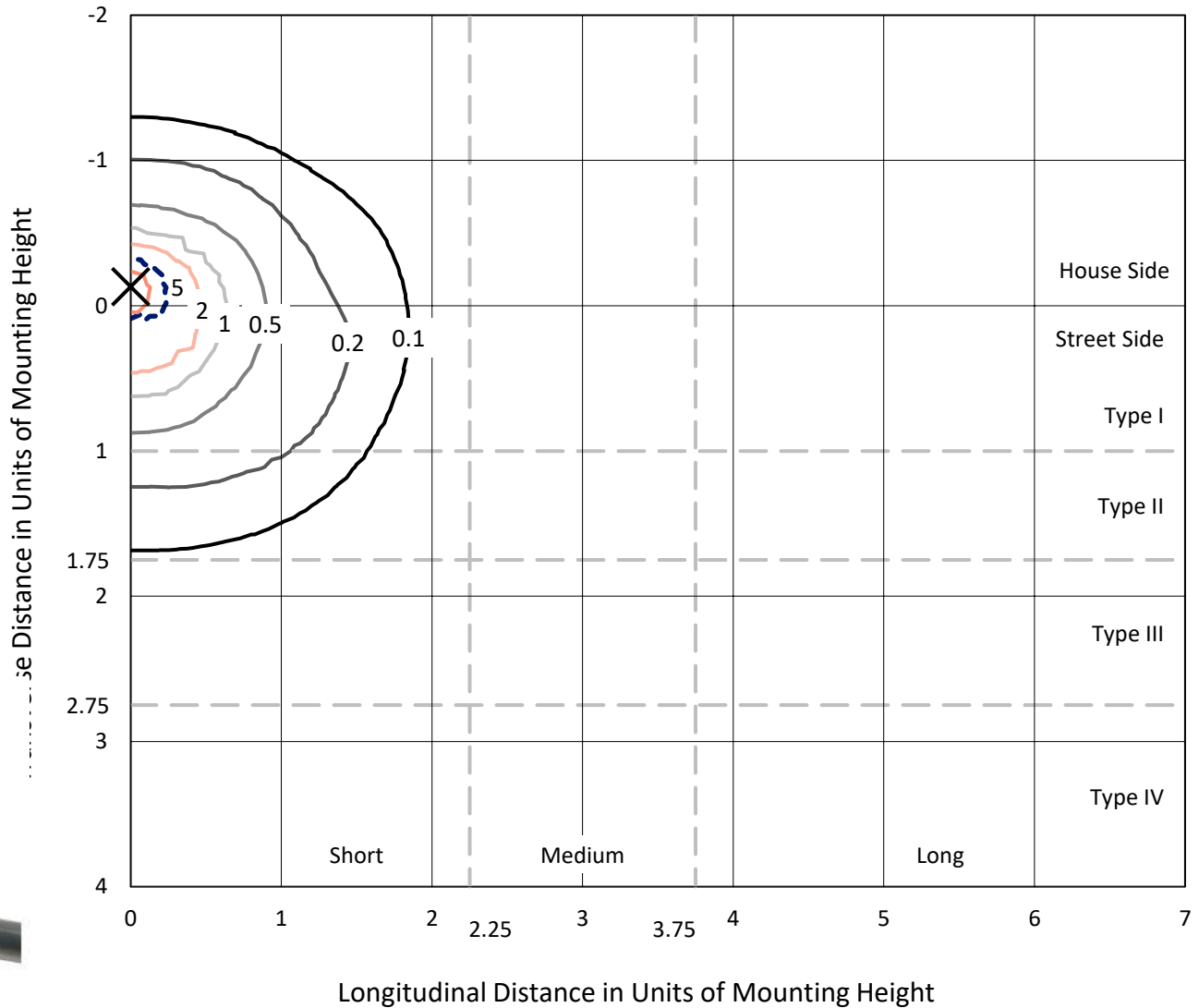
Input Watts (W): 41.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

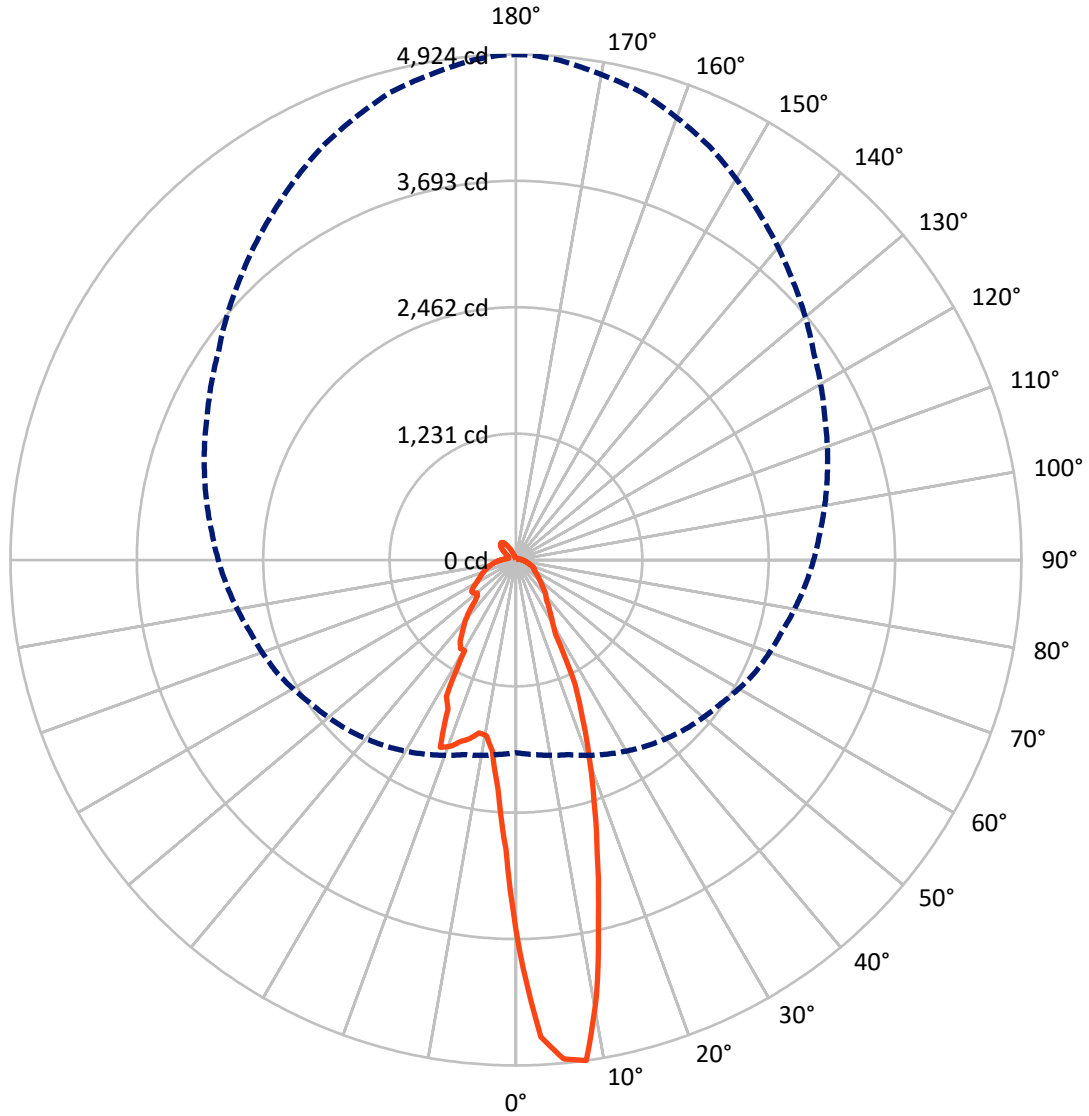
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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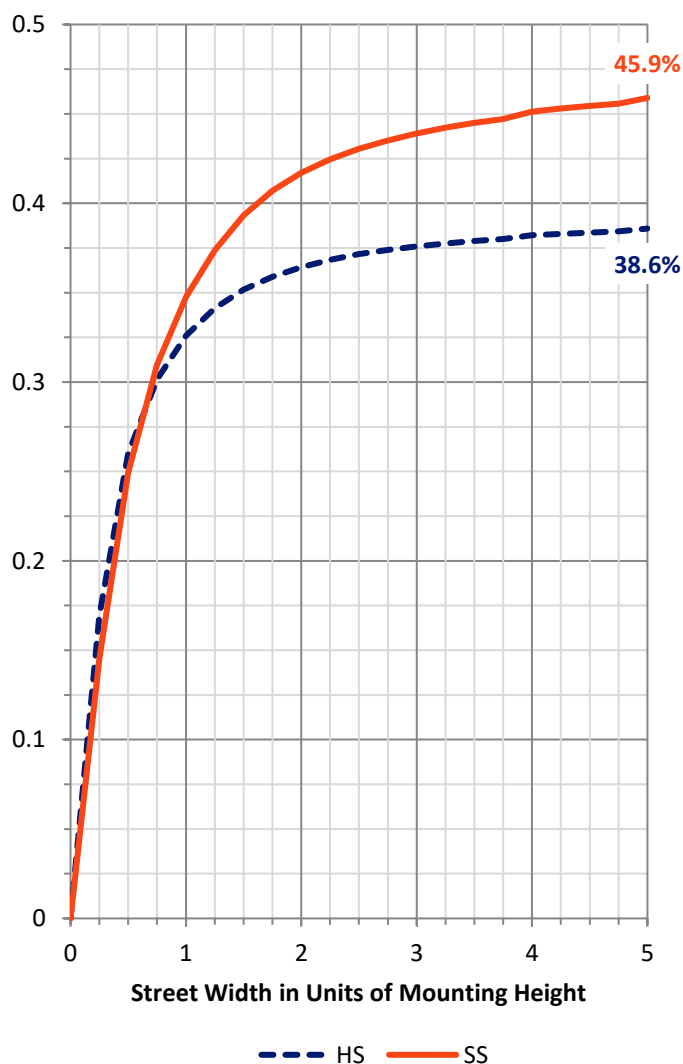
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1796.7	187.4	1984.0
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	2142.5	411.5	2554.0
	% Fixture	47.2	9.1	56.3
Total	Lumens	3939.2	598.8	4538.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.0	6.7
10°-20°	650.4	14.3
20°-30°	718.2	15.8
30°-40°	520.9	11.5
40°-50°	438.9	9.7
50°-60°	448.0	9.9
60°-70°	381.8	8.4
70°-80°	284.7	6.3
80°-90°	192.1	4.2
90°-100°	114.9	2.5
100°-110°	66.1	1.5
110°-120°	61.7	1.4
120°-130°	89.9	2.0
130°-140°	122.2	2.7
140°-150°	99.5	2.2
150°-160°	39.7	0.9
160°-170°	4.8	0.1
170°-180°	0.0	0.0
0°-90°	3939.2	86.8
0°-180°	4538.0	100.0

Coefficient of Utilization



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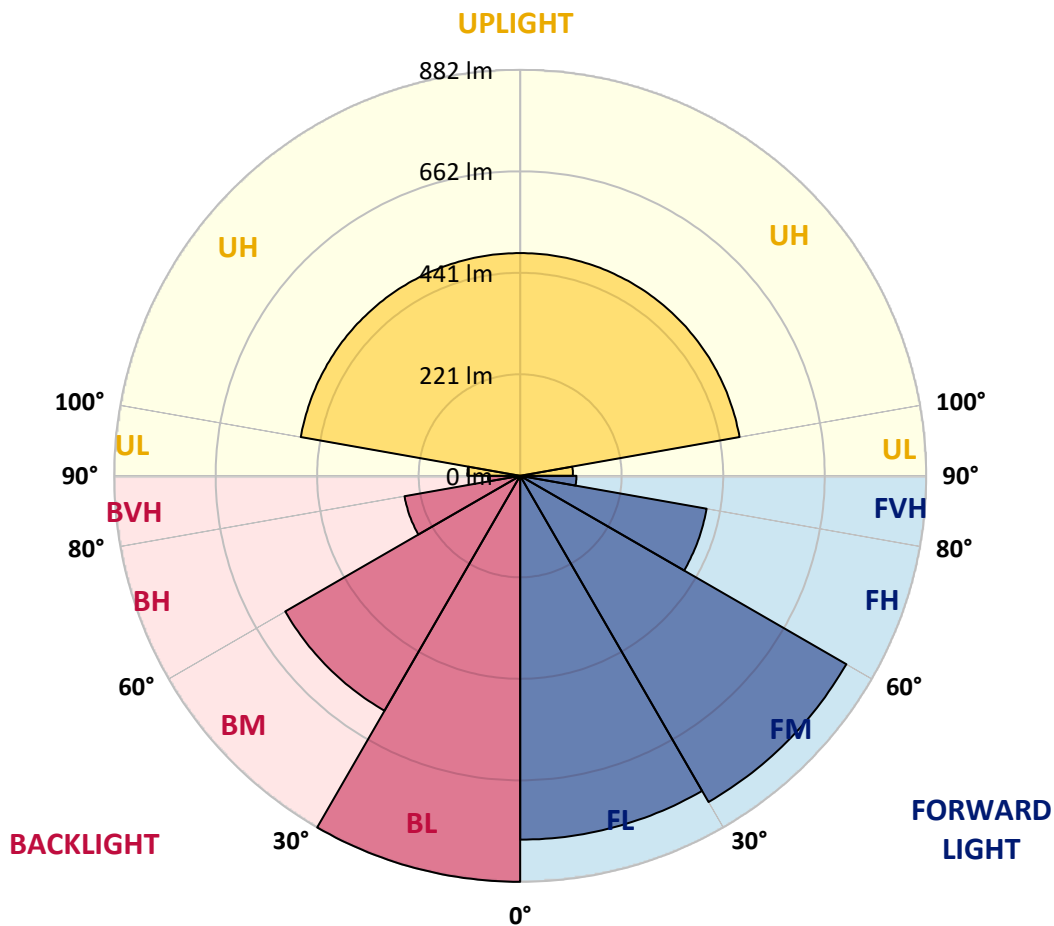
CATALOG NUMBER: CRTK2-C016-D-U-T3-7050-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	790.5	17.4			
FM (30°-60°)	818.4	18.0			
FH (60°-80°)	411.4	9.1			G0/660
FVH (80°-90°)	122.2	2.7			G2/225
BL (0°-30°)	882.2	19.4	B2/1000		
BM (30°-60°)	589.4	13.0	B1/1000		
BH (60°-80°)	255.2	5.6	B1/500		G1/500
BVH (80°-90°)	69.9	1.5			G1/100
UL (90°-100°)	114.9	2.5		U3/500	
UH (100°-180°)	484.0	10.7		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°	3794.6	3794.6	3794.6	3794.6	3794.6	3794.6	3794.6	3794.6	3794.6	3794.6	3794.6
2.5°	2816.3	2881.6	2887.6	2958.9	3012.3	3061.9	3097.5	3200.5	3305.5	3404.5	3461.9
5°	2236.0	2267.7	2325.1	2402.3	2501.4	2578.6	2689.5	2834.1	2972.7	3147.0	3232.2
7.5°	1877.5	1901.3	1962.7	2087.4	2212.2	2331.0	2438.0	2576.6	2683.6	2828.2	2899.5
10°	1734.9	1748.8	1800.3	1887.4	2006.2	2105.3	2198.4	2303.3	2398.4	2531.1	2582.6
12.5°	1721.1	1727.0	1768.6	1830.0	1899.3	1980.5	2057.7	2146.9	2247.9	2352.8	2392.4
15°	1796.3	1792.4	1806.2	1841.9	1881.5	1944.9	2016.2	2097.4	2194.4	2271.6	2303.3
17.5°	1849.8	1847.8	1873.6	1889.4	1927.0	1964.7	2036.0	2099.3	2194.4	2255.8	2273.6
20°	1927.0	1931.0	1938.9	1968.6	1984.5	2010.2	2053.8	2091.4	2172.6	2208.3	2204.3
22.5°	1968.6	1966.6	2000.3	2069.6	2087.4	2101.3	2109.2	2125.1	2170.6	2168.6	2138.9
25°	1596.3	1600.2	1608.2	1667.6	1742.8	1865.6	1966.6	2125.1	2210.2	2178.6	2115.2
27.5°	1491.3	1479.4	1437.8	1404.2	1303.2	1235.8	1172.5	1144.7	1158.6	1182.4	1247.7
30°	1016.0	1018.0	1021.9	1027.9	1037.8	1063.5	1081.4	1083.3	1097.2	1136.8	1122.9
32.5°	1018.0	1020.0	1014.0	1020.0	1016.0	1025.9	1023.9	1016.0	1027.9	1063.5	1049.7
35°	956.6	952.6	956.6	958.6	936.8	928.9	926.9	920.9	928.9	946.7	934.8
37.5°	861.5	859.5	877.4	887.3	869.4	869.4	865.5	857.6	863.5	879.3	863.5
40°	778.3	780.3	806.1	821.9	816.0	821.9	827.8	825.9	839.7	845.7	825.9
42.5°	687.2	683.3	709.0	720.9	709.0	713.0	711.0	713.0	740.7	752.6	738.7
45°	574.3	580.3	592.2	608.0	606.0	612.0	610.0	614.0	631.8	637.7	627.8
47.5°	511.0	514.9	528.8	546.6	556.5	566.4	566.4	568.4	580.3	582.3	572.4
50°	497.1	501.1	518.9	538.7	554.5	566.4	572.4	570.4	576.3	572.4	558.5
52.5°	520.9	520.9	548.6	572.4	592.2	614.0	621.9	614.0	614.0	598.1	576.3
55°	530.8	532.8	566.4	608.0	645.6	685.3	711.0	709.0	707.0	681.3	641.7
57.5°	499.1	505.0	538.7	586.2	637.7	701.1	738.7	744.7	744.7	711.0	667.4
60°	453.5	457.5	483.2	522.9	574.3	621.9	661.5	665.4	677.3	659.5	619.9
62.5°	415.9	419.9	441.7	471.4	509.0	538.7	550.6	550.6	556.5	550.6	522.9
65°	388.2	390.2	408.0	433.7	459.5	483.2	495.1	491.2	499.1	491.2	469.4
67.5°	362.4	362.4	378.3	398.1	421.8	449.6	457.5	461.5	469.4	459.5	439.7
70°	336.7	338.7	354.5	370.4	392.1	411.9	419.9	421.8	431.7	419.9	406.0
72.5°	314.9	314.9	328.8	344.6	360.5	380.3	386.2	390.2	396.1	384.2	372.3
75°	289.2	291.1	303.0	316.9	330.7	350.5	356.5	358.5	364.4	350.5	338.7
77.5°	265.4	267.4	277.3	289.2	303.0	318.9	324.8	328.8	330.7	318.9	307.0
80°	241.6	243.6	251.5	263.4	275.3	291.1	295.1	297.1	301.0	287.2	279.3
82.5°	219.8	219.8	225.8	235.7	247.6	261.4	267.4	269.3	271.3	259.4	251.5
85°	194.1	194.1	200.0	209.9	219.8	233.7	239.6	241.6	241.6	231.7	223.8
87.5°	172.3	172.3	176.3	184.2	192.1	206.0	211.9	215.9	213.9	206.0	198.1
90°	150.5	150.5	154.5	160.4	168.3	180.2	186.2	188.1	188.1	178.2	172.3
92.5°	130.7	130.7	134.7	140.6	146.6	156.5	162.4	166.4	166.4	158.4	152.5
95°	112.9	112.9	114.9	120.8	126.8	134.7	138.6	142.6	142.6	138.6	132.7
97.5°	97.0	97.0	99.0	103.0	106.9	112.9	116.8	120.8	120.8	118.8	114.9
100°	85.2	85.2	85.2	87.1	91.1	93.1	97.0	101.0	101.0	99.0	97.0
102.5°	77.2	77.2	77.2	77.2	77.2	79.2	79.2	81.2	81.2	81.2	79.2
105°	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	71.3	69.3	67.3
107.5°	73.3	71.3	71.3	71.3	71.3	69.3	69.3	69.3	67.3	65.4	63.4
110°	73.3	73.3	73.3	73.3	71.3	69.3	69.3	67.3	65.4	63.4	61.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	77.2	77.2	77.2	75.3	73.3	73.3	71.3	69.3	67.3	63.4	61.4
115°	83.2	83.2	83.2	83.2	81.2	77.2	75.3	73.3	69.3	67.3	65.4
117.5°	93.1	93.1	93.1	93.1	89.1	87.1	83.2	81.2	77.2	73.3	71.3
120°	105.0	105.0	106.9	106.9	105.0	101.0	95.1	93.1	89.1	83.2	79.2
122.5°	122.8	120.8	124.8	124.8	124.8	120.8	112.9	108.9	105.0	97.0	93.1
125°	140.6	140.6	144.6	148.5	150.5	144.6	136.7	130.7	124.8	114.9	108.9
127.5°	160.4	160.4	168.3	176.3	180.2	174.3	164.4	158.4	150.5	136.7	128.7
130°	180.2	180.2	192.1	204.0	209.9	206.0	196.1	188.1	178.2	160.4	150.5
132.5°	198.1	198.1	211.9	227.8	235.7	233.7	223.8	215.9	208.0	186.2	172.3
135°	211.9	213.9	231.7	249.5	259.4	261.4	251.5	241.6	231.7	208.0	192.1
137.5°	219.8	223.8	241.6	263.4	273.3	279.3	273.3	263.4	251.5	225.8	208.0
140°	221.8	223.8	243.6	265.4	275.3	283.2	283.2	271.3	261.4	235.7	215.9
142.5°	215.9	217.9	237.7	257.5	267.4	277.3	279.3	269.3	259.4	235.7	215.9
145°	202.0	206.0	223.8	239.6	253.5	263.4	267.4	261.4	249.5	227.8	209.9
147.5°	184.2	186.2	202.0	215.9	229.7	241.6	247.6	241.6	231.7	211.9	196.1
150°	156.5	158.4	170.3	182.2	198.1	209.9	217.9	213.9	206.0	190.1	174.3
152.5°	126.8	126.8	136.7	146.6	160.4	172.3	180.2	178.2	172.3	158.4	146.6
155°	97.0	97.0	103.0	110.9	122.8	130.7	138.6	138.6	134.7	124.8	114.9
157.5°	69.3	69.3	75.3	81.2	89.1	97.0	103.0	103.0	101.0	93.1	87.1
160°	45.6	45.6	49.5	53.5	61.4	65.4	71.3	71.3	69.3	65.4	61.4
162.5°	23.8	23.8	27.7	29.7	35.6	39.6	43.6	45.6	45.6	41.6	39.6
165°	7.9	7.9	7.9	9.9	13.9	17.8	19.8	21.8	21.8	19.8	19.8
167.5°	2.0	2.0	2.0	2.0	2.0	2.0	4.0	5.9	5.9	5.9	5.9
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°	3794.6	3794.6	3794.6	3794.6	3794.6	3794.6	3794.6	3794.6	3794.6	3794.6	3794.6
2.5°	3523.3	3703.5	3858.0	4020.4	4200.6	4353.1	4507.6	4592.8	4666.1	4652.2	4652.2
5°	3315.4	3495.6	3683.7	3881.8	4125.4	4374.9	4612.6	4782.9	4872.0	4885.9	4883.9
7.5°	2970.8	3139.1	3317.3	3537.2	3822.4	4127.4	4450.2	4717.6	4885.9	4917.6	4923.5
10°	2630.1	2756.9	2907.4	3057.9	3313.4	3592.6	3881.8	4095.7	4260.1	4283.8	4311.6
12.5°	2426.1	2495.4	2592.5	2697.4	2863.8	3067.8	3305.5	3428.2	3533.2	3545.1	3570.8
15°	2321.1	2354.8	2378.6	2416.2	2515.2	2642.0	2750.9	2871.7	2915.3	2945.0	2958.9
17.5°	2279.6	2275.6	2251.8	2251.8	2259.8	2307.3	2376.6	2418.2	2445.9	2459.8	2463.7
20°	2194.4	2158.7	2111.2	2047.8	2014.2	1998.3	2016.2	2026.1	2018.1	2008.2	2026.1
22.5°	2105.3	2030.0	1944.9	1871.6	1784.4	1731.0	1679.5	1661.6	1639.9	1653.7	1653.7
25°	2077.5	1944.9	1808.2	1685.4	1554.7	1465.6	1370.5	1336.8	1303.2	1330.9	1330.9
27.5°	1227.9	1227.9	1150.7	1047.7	934.8	887.3	849.6	827.8	814.0	819.9	819.9
30°	1099.2	1047.7	1000.2	934.8	847.7	790.2	740.7	711.0	697.1	693.2	697.1
32.5°	1020.0	980.3	922.9	857.6	780.3	716.9	661.5	631.8	610.0	614.0	615.9
35°	913.0	871.4	821.9	760.5	695.2	635.7	586.2	556.5	536.7	536.7	538.7
37.5°	845.7	804.1	756.6	701.1	637.7	580.3	534.7	499.1	481.3	479.3	479.3
40°	804.1	762.5	718.9	663.5	604.1	544.6	499.1	467.4	445.6	445.6	447.6
42.5°	728.8	689.2	651.6	602.1	548.6	497.1	453.5	425.8	404.0	400.1	404.0
45°	614.0	592.2	562.5	528.8	483.2	441.7	402.0	378.3	360.5	360.5	358.5
47.5°	562.5	540.7	509.0	475.3	437.7	396.1	364.4	342.6	326.8	326.8	326.8
50°	542.7	518.9	479.3	441.7	398.1	362.4	334.7	312.9	301.0	301.0	299.1
52.5°	552.6	514.9	463.4	410.0	368.4	332.7	305.0	283.2	273.3	273.3	271.3
55°	606.0	538.7	463.4	398.1	348.6	309.0	281.2	257.5	247.6	247.6	247.6
57.5°	627.8	552.6	459.5	386.2	330.7	289.2	255.5	233.7	223.8	223.8	221.8
60°	588.2	524.8	439.7	370.4	316.9	275.3	243.6	221.8	209.9	209.9	208.0
62.5°	501.1	455.5	390.2	338.7	297.1	259.4	231.7	209.9	200.0	200.0	200.0
65°	449.6	410.0	358.5	312.9	275.3	243.6	217.9	200.0	190.1	190.1	190.1
67.5°	419.9	386.2	334.7	291.1	253.5	223.8	200.0	184.2	176.3	174.3	176.3
70°	388.2	352.5	305.0	263.4	229.7	202.0	180.2	164.4	156.5	156.5	156.5
72.5°	354.5	320.8	275.3	237.7	204.0	182.2	160.4	146.6	138.6	138.6	136.7
75°	322.8	289.2	245.6	209.9	182.2	160.4	142.6	130.7	122.8	122.8	122.8
77.5°	293.1	261.4	219.8	188.1	162.4	144.6	126.8	116.8	110.9	110.9	108.9
80°	265.4	235.7	196.1	168.3	144.6	128.7	112.9	105.0	99.0	99.0	99.0
82.5°	237.7	209.9	174.3	148.5	128.7	112.9	101.0	93.1	89.1	87.1	89.1
85°	211.9	186.2	154.5	130.7	112.9	99.0	89.1	81.2	77.2	77.2	77.2
87.5°	188.1	164.4	136.7	114.9	99.0	87.1	77.2	71.3	69.3	67.3	67.3
90°	162.4	140.6	116.8	99.0	85.2	75.3	65.4	61.4	57.4	57.4	57.4
92.5°	144.6	126.8	105.0	89.1	77.2	69.3	61.4	57.4	53.5	53.5	53.5
95°	126.8	110.9	93.1	81.2	71.3	63.4	57.4	53.5	51.5	51.5	51.5
97.5°	108.9	97.0	83.2	73.3	65.4	59.4	53.5	49.5	47.5	47.5	47.5
100°	91.1	83.2	73.3	65.4	59.4	53.5	47.5	45.6	43.6	43.6	43.6
102.5°	75.3	69.3	61.4	55.5	49.5	45.6	41.6	39.6	37.6	37.6	37.6
105°	65.4	61.4	55.5	49.5	45.6	41.6	37.6	33.7	33.7	33.7	33.7
107.5°	61.4	55.5	51.5	47.5	43.6	37.6	35.6	31.7	29.7	29.7	29.7
110°	59.4	55.5	51.5	45.6	41.6	37.6	33.7	29.7	27.7	27.7	27.7



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	59.4	55.5	51.5	47.5	43.6	37.6	35.6	27.7	25.7	25.7	25.7
115°	63.4	59.4	53.5	49.5	43.6	39.6	35.6	27.7	25.7	25.7	25.7
117.5°	67.3	63.4	57.4	53.5	47.5	41.6	35.6	27.7	25.7	25.7	25.7
120°	77.2	71.3	63.4	57.4	51.5	43.6	37.6	27.7	23.8	25.7	25.7
122.5°	87.1	81.2	71.3	63.4	55.5	47.5	37.6	27.7	23.8	25.7	25.7
125°	103.0	93.1	81.2	71.3	59.4	49.5	39.6	27.7	21.8	23.8	25.7
127.5°	120.8	108.9	93.1	79.2	65.4	51.5	39.6	27.7	21.8	23.8	23.8
130°	140.6	124.8	105.0	85.2	69.3	53.5	39.6	27.7	21.8	23.8	23.8
132.5°	160.4	138.6	114.9	93.1	73.3	55.5	39.6	25.7	21.8	21.8	21.8
135°	176.3	150.5	122.8	97.0	75.3	55.5	37.6	25.7	19.8	19.8	19.8
137.5°	190.1	160.4	128.7	99.0	75.3	53.5	35.6	23.8	17.8	17.8	17.8
140°	198.1	164.4	130.7	97.0	71.3	51.5	33.7	21.8	15.8	15.8	15.8
142.5°	198.1	162.4	126.8	95.1	67.3	47.5	29.7	17.8	13.9	13.9	13.9
145°	190.1	154.5	120.8	89.1	61.4	41.6	25.7	15.8	11.9	11.9	11.9
147.5°	178.2	142.6	110.9	81.2	55.5	35.6	21.8	13.9	9.9	9.9	9.9
150°	158.4	126.8	97.0	69.3	47.5	29.7	17.8	11.9	7.9	7.9	7.9
152.5°	132.7	105.0	81.2	57.4	39.6	23.8	15.8	7.9	5.9	5.9	5.9
155°	105.0	83.2	63.4	45.6	29.7	17.8	11.9	7.9	4.0	4.0	4.0
157.5°	79.2	61.4	47.5	33.7	21.8	13.9	7.9	5.9	4.0	4.0	4.0
160°	55.5	43.6	31.7	21.8	13.9	9.9	5.9	4.0	2.0	2.0	2.0
162.5°	35.6	27.7	19.8	13.9	7.9	5.9	4.0	2.0	2.0	2.0	0.0
165°	17.8	13.9	9.9	5.9	4.0	2.0	2.0	2.0	0.0	0.0	0.0
167.5°	4.0	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)