

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: P691489

Luminaire Tested: **CRTK2-C016-D-U-T2-7050-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691489  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CRTK2-C016-D-U-T2-7050-RMARROA5-HSS-CRTK2  
Description: CARETAKER AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K LED WITH TYPE II OPTIC AND NEMA REFRACTOR WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

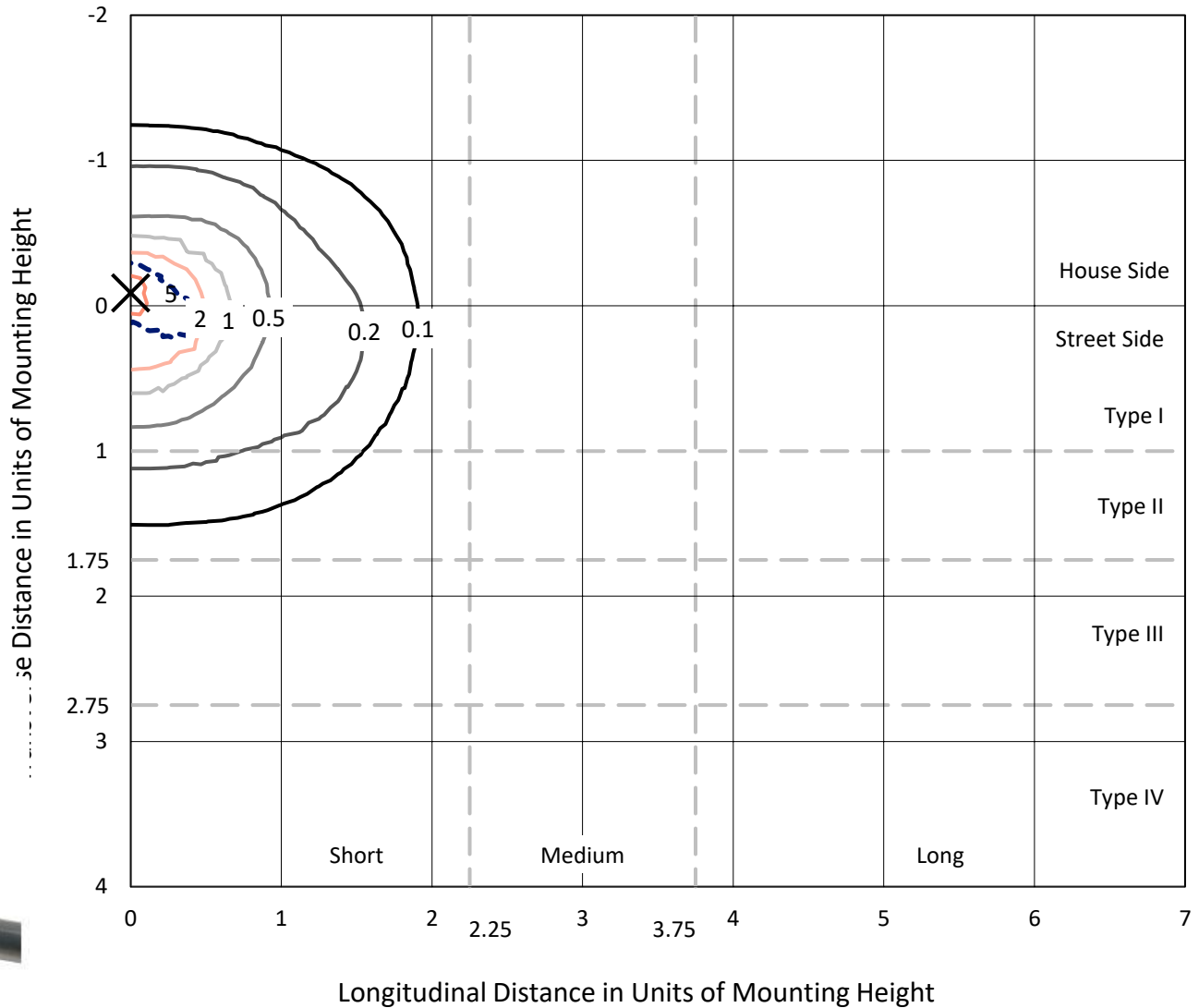
Lumens per Lamp: N/A  
Luminaire Lumens: 4448 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')  
IES Classification: Type I - Short  
BUG Rating: B2 - U3 - G2  
  
Input Watts (W): 41.6  
Input Voltage (V): NR  
Input Current (Ain): 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

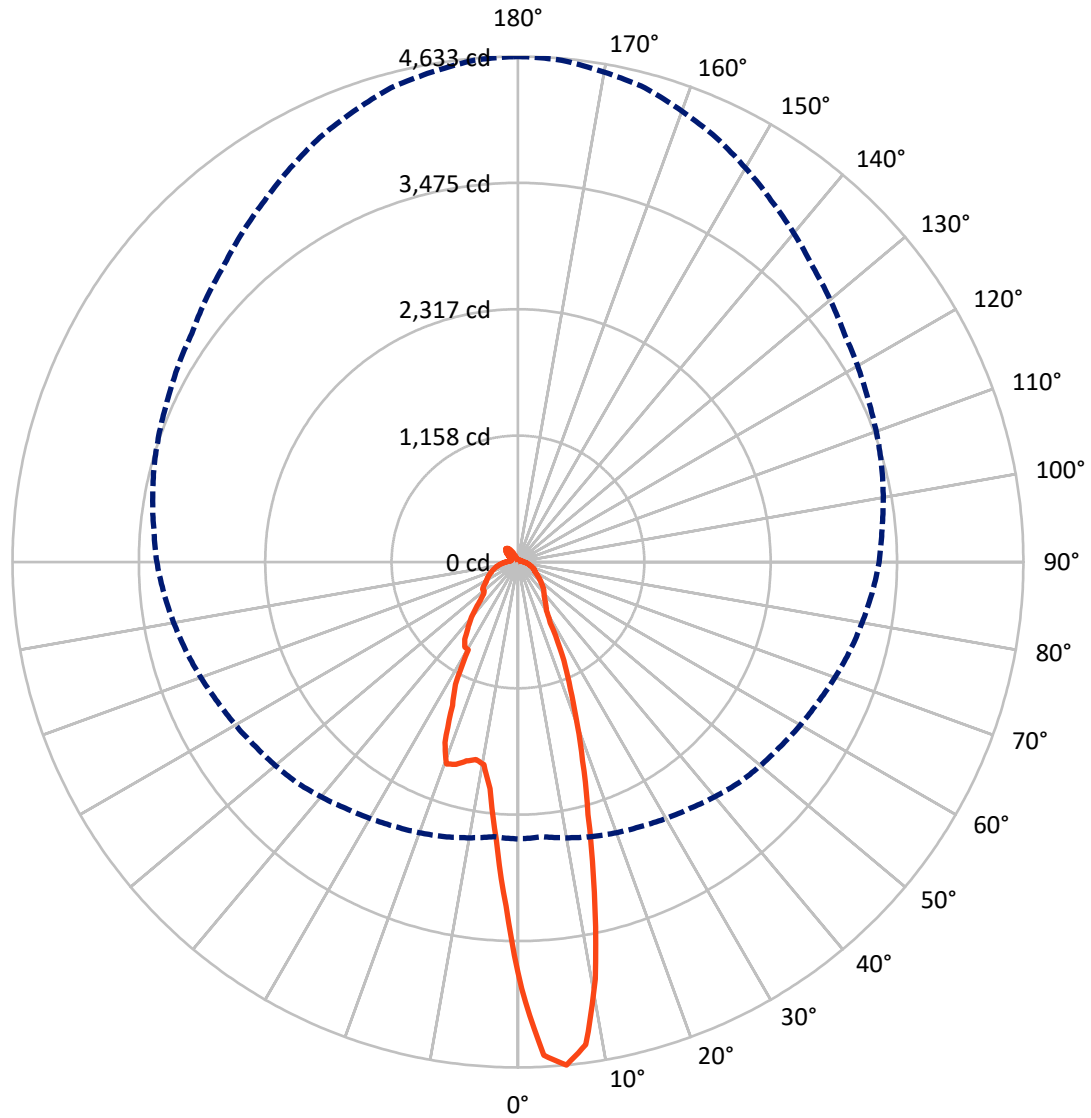
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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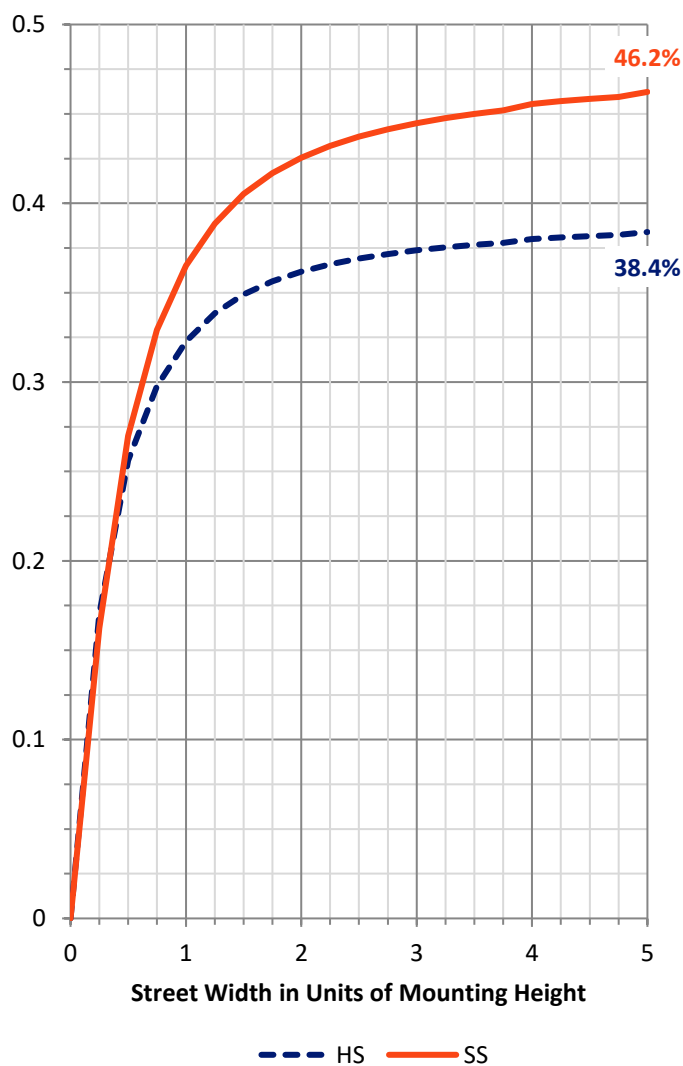
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1752.9	205.8	1958.7
	% Fixture	39.4	4.6	44.0
<b>Street Side</b>	Lumens	2106.7	382.6	2489.3
	% Fixture	47.4	8.6	56.0
<b>Total</b>	Lumens	3859.6	588.4	4448.0
	% Fixture	86.8	13.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.7	6.8
10°-20°	642.3	14.4
20°-30°	699.0	15.7
30°-40°	511.6	11.5
40°-50°	430.2	9.7
50°-60°	436.8	9.8
60°-70°	371.3	8.3
70°-80°	277.1	6.2
80°-90°	188.6	4.2
90°-100°	113.3	2.5
100°-110°	64.9	1.5
110°-120°	59.8	1.3
120°-130°	86.9	2.0
130°-140°	119.4	2.7
140°-150°	98.9	2.2
150°-160°	40.2	0.9
160°-170°	5.0	0.1
170°-180°	0.0	0.0
0°-90°	3859.6	86.8
0°-180°	4448.0	100.0

**Coefficient of Utilization**



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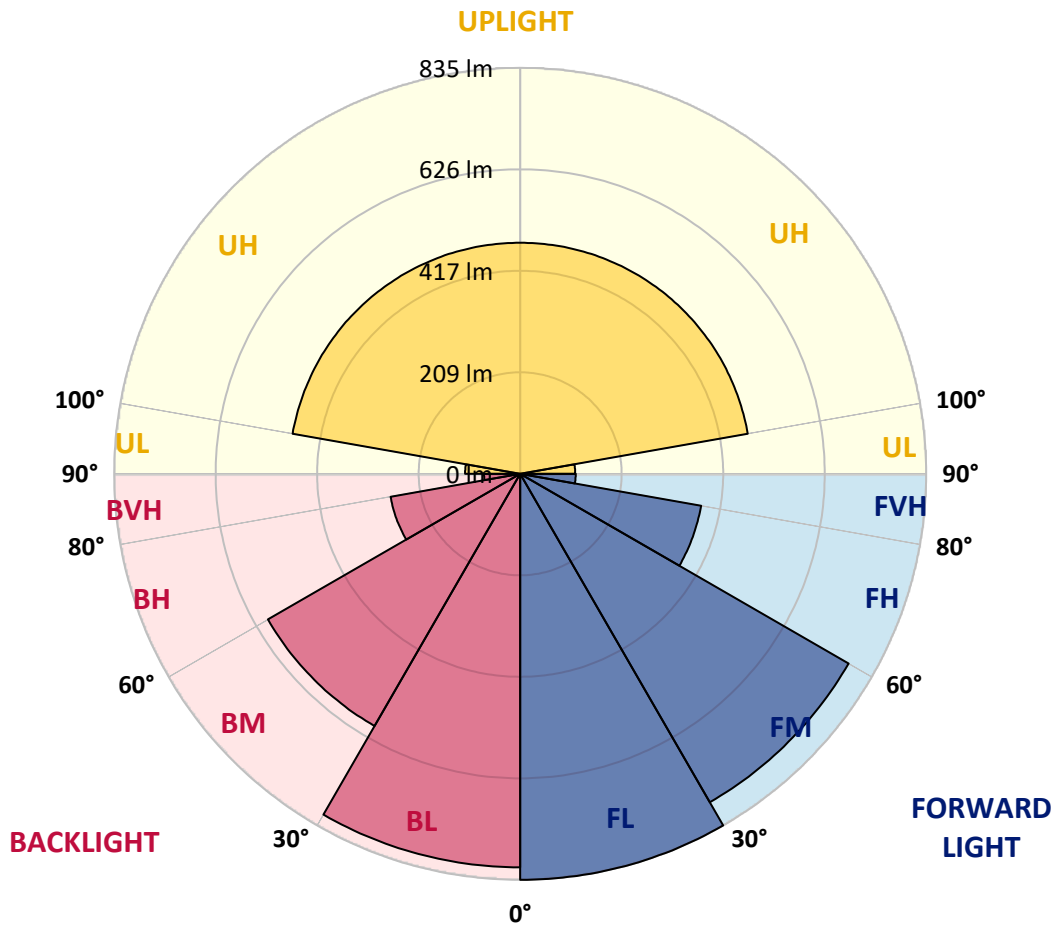
CATALOG NUMBER: CRTK2-C016-D-U-T2-7050-RMARROA5-HSS-CRTK2

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	834.8	18.8			
FM (30°-60°)	779.8	17.5			
FH (60°-80°)	377.9	8.5			G0/660
FVH (80°-90°)	114.2	2.6			G2/225
BL (0°-30°)	809.1	18.2	B2/1000		
BM (30°-60°)	598.9	13.5	B1/1000		
BH (60°-80°)	270.6	6.1	B1/500		G1/500
BVH (80°-90°)	74.4	1.7			G1/100
UL (90°-100°)	113.3	2.5		U3/500	
UH (100°-180°)	475.1	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°	3910.1	3910.1	3910.1	3910.1	3910.1	3910.1	3910.1	3910.1	3910.1	3910.1	3910.1
2.5°	3153.4	3147.5	3191.1	3201.0	3204.9	3250.5	3311.9	3353.5	3428.8	3502.1	3531.8
5°	2539.4	2527.5	2606.7	2674.1	2755.3	2862.3	2941.5	3036.6	3149.5	3258.4	3309.9
7.5°	2093.7	2109.6	2222.5	2361.1	2491.9	2618.6	2715.7	2796.9	2862.3	2931.6	2945.5
10°	1883.7	1897.6	2008.5	2141.3	2262.1	2390.8	2474.0	2543.4	2585.0	2636.5	2654.3
12.5°	1850.1	1860.0	1935.2	2028.3	2119.5	2236.3	2341.3	2418.6	2466.1	2507.7	2511.7
15°	1883.7	1887.7	1933.3	1994.7	2073.9	2171.0	2291.8	2379.0	2432.4	2450.3	2446.3
17.5°	1939.2	1939.2	1961.0	2012.5	2087.8	2180.9	2295.8	2384.9	2440.4	2448.3	2432.4
20°	1963.0	1966.9	1980.8	2038.3	2105.6	2190.8	2305.7	2380.9	2424.5	2402.7	2375.0
22.5°	1784.7	1776.8	1814.4	1935.2	2085.8	2238.3	2347.3	2432.4	2456.2	2382.9	2323.5
25°	1444.0	1448.0	1471.7	1531.2	1648.0	1788.7	2030.3	2289.8	2470.1	2442.3	2353.2
27.5°	1259.8	1247.9	1253.9	1263.8	1247.9	1218.2	1245.9	1240.0	1236.0	1307.3	1315.3
30°	925.0	927.0	936.9	954.7	992.4	1047.8	1107.3	1140.9	1170.7	1226.1	1218.2
32.5°	919.1	921.1	927.0	942.9	962.7	1000.3	1037.9	1051.8	1083.5	1129.1	1115.2
35°	859.7	853.7	869.6	883.4	889.4	905.2	934.9	954.7	974.6	1006.3	998.3
37.5°	762.6	764.6	796.3	818.1	824.0	845.8	873.5	889.4	911.2	938.9	925.0
40°	679.4	681.4	719.0	742.8	756.7	786.4	828.0	847.8	883.4	905.2	889.4
42.5°	584.3	592.3	618.0	645.7	653.7	671.5	699.2	725.0	770.5	800.2	790.3
45°	487.3	491.2	509.1	536.8	548.7	568.5	594.2	618.0	653.7	677.4	675.5
47.5°	429.8	433.8	449.6	473.4	497.2	522.9	550.7	574.4	608.1	627.9	620.0
50°	406.1	410.0	429.8	457.6	487.3	521.0	554.6	580.4	612.1	624.0	614.1
52.5°	410.0	410.0	437.8	473.4	515.0	560.6	602.2	633.9	659.6	667.5	645.7
55°	388.2	394.2	423.9	473.4	536.8	608.1	679.4	746.8	784.4	776.5	734.9
57.5°	354.6	360.5	382.3	435.8	503.1	588.3	689.3	772.5	818.1	824.0	782.4
60°	334.8	338.7	358.5	400.1	459.5	528.9	620.0	687.3	738.8	754.7	725.0
62.5°	316.9	320.9	336.7	368.4	412.0	465.5	517.0	560.6	602.2	618.0	606.1
65°	297.1	299.1	314.9	342.7	378.3	423.9	467.5	499.2	532.8	542.7	528.9
67.5°	277.3	279.3	293.2	318.9	352.6	394.2	427.9	463.5	497.2	505.1	495.2
70°	259.5	261.5	273.4	297.1	326.8	366.4	398.1	421.9	455.6	463.5	451.6
72.5°	241.7	243.6	255.5	277.3	305.0	340.7	368.4	392.2	419.9	421.9	412.0
75°	223.8	225.8	235.7	255.5	279.3	314.9	340.7	360.5	384.3	384.3	372.4
77.5°	204.0	208.0	215.9	233.7	255.5	289.2	313.0	332.8	352.6	350.6	338.7
80°	186.2	188.2	196.1	211.9	231.8	263.4	287.2	303.1	320.9	318.9	309.0
82.5°	166.4	168.4	174.3	190.2	208.0	237.7	261.5	277.3	293.2	289.2	279.3
85°	146.6	148.6	156.5	168.4	186.2	213.9	235.7	251.6	263.4	259.5	251.6
87.5°	130.7	130.7	136.7	148.6	164.4	190.2	210.0	225.8	235.7	233.7	225.8
90°	112.9	114.9	118.8	128.8	142.6	164.4	184.2	198.1	208.0	204.0	196.1
92.5°	99.0	99.0	103.0	112.9	124.8	144.6	162.4	174.3	182.2	180.3	174.3
95°	85.2	87.2	89.1	97.1	107.0	122.8	138.7	150.5	158.5	156.5	152.5
97.5°	75.3	77.3	79.2	83.2	93.1	103.0	116.9	126.8	134.7	132.7	128.8
100°	69.3	69.3	69.3	73.3	79.2	87.2	97.1	105.0	108.9	110.9	107.0
102.5°	63.4	63.4	65.4	65.4	69.3	73.3	79.2	85.2	87.2	87.2	87.2
105°	61.4	61.4	63.4	63.4	65.4	67.3	71.3	73.3	75.3	75.3	73.3
107.5°	61.4	61.4	61.4	61.4	63.4	65.4	67.3	69.3	69.3	69.3	67.3
110°	63.4	63.4	63.4	63.4	63.4	65.4	65.4	67.3	67.3	65.4	65.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	65.4	65.4	65.4	65.4	65.4	67.3	67.3	67.3	67.3	65.4	65.4
115°	69.3	69.3	69.3	71.3	71.3	71.3	71.3	71.3	71.3	69.3	67.3
117.5°	77.3	77.3	77.3	77.3	79.2	79.2	79.2	79.2	79.2	75.3	75.3
120°	87.2	85.2	87.2	89.1	91.1	91.1	91.1	91.1	91.1	87.2	85.2
122.5°	97.1	97.1	99.0	103.0	107.0	108.9	107.0	107.0	107.0	101.0	99.0
125°	108.9	108.9	114.9	122.8	128.8	130.7	128.8	128.8	128.8	122.8	118.8
127.5°	122.8	122.8	130.7	142.6	152.5	158.5	156.5	156.5	156.5	146.6	140.6
130°	136.7	136.7	148.6	164.4	180.3	184.2	186.2	188.2	188.2	176.3	168.4
132.5°	146.6	148.6	162.4	184.2	204.0	210.0	215.9	217.9	217.9	204.0	192.1
135°	156.5	158.5	176.3	202.0	223.8	237.7	243.6	245.6	247.6	231.8	217.9
137.5°	162.4	164.4	184.2	213.9	235.7	253.5	267.4	271.4	271.4	253.5	235.7
140°	162.4	164.4	186.2	213.9	237.7	259.5	275.3	283.3	283.3	265.4	249.6
142.5°	158.5	162.4	182.2	210.0	233.7	255.5	273.4	281.3	281.3	265.4	249.6
145°	150.5	152.5	172.3	196.1	219.9	245.6	265.4	273.4	273.4	257.5	241.7
147.5°	136.7	138.7	154.5	176.3	200.1	225.8	245.6	255.5	253.5	239.7	225.8
150°	118.8	118.8	132.7	150.5	174.3	198.1	217.9	227.8	227.8	213.9	202.0
152.5°	97.1	97.1	107.0	120.8	140.6	164.4	180.3	190.2	190.2	180.3	170.3
155°	75.3	75.3	83.2	93.1	108.9	126.8	138.7	148.6	148.6	140.6	132.7
157.5°	53.5	53.5	61.4	69.3	81.2	95.1	105.0	110.9	112.9	105.0	101.0
160°	35.7	35.7	39.6	45.6	55.5	65.4	71.3	77.3	79.2	73.3	71.3
162.5°	19.8	19.8	21.8	27.7	33.7	39.6	45.6	49.5	49.5	47.5	45.6
165°	5.9	5.9	7.9	9.9	13.9	17.8	19.8	21.8	23.8	23.8	21.8
167.5°	0.0	0.0	2.0	2.0	2.0	2.0	4.0	4.0	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°	179°	180°
0°	3910.1	3910.1	3910.1	3910.1	3910.1	3910.1	3910.1	3910.1	3910.1	3910.1	3910.1
2.5°	3593.2	3704.1	3824.9	3941.8	4084.4	4233.0	4369.7	4462.8	4512.3	4528.1	4528.1
5°	3349.5	3450.6	3539.7	3650.6	3823.0	4046.8	4294.4	4500.4	4617.3	4631.1	4633.1
7.5°	2969.2	3052.4	3145.5	3244.6	3397.1	3597.1	3924.0	4256.8	4446.9	4482.6	4468.7
10°	2658.2	2709.7	2765.2	2802.8	2909.8	3058.4	3280.2	3607.1	3840.8	3868.5	3888.3
12.5°	2513.6	2521.6	2505.7	2513.6	2549.3	2618.6	2727.6	2915.7	3068.3	3094.0	3107.9
15°	2440.4	2400.7	2337.4	2277.9	2246.2	2252.2	2275.9	2353.2	2379.0	2422.5	2402.7
17.5°	2406.7	2317.5	2218.5	2103.6	2032.3	1959.0	1919.4	1905.5	1895.6	1897.6	1915.4
20°	2321.5	2220.5	2062.0	1911.5	1796.6	1695.6	1610.4	1549.0	1515.3	1499.5	1511.4
22.5°	2232.4	2075.9	1889.7	1727.3	1562.9	1434.1	1337.0	1247.9	1198.4	1212.3	1196.4
25°	2234.4	2000.6	1778.8	1564.8	1410.3	1240.0	1085.5	992.4	911.2	927.0	948.8
27.5°	1408.4	1346.9	1188.5	1063.7	909.2	824.0	746.8	681.4	635.8	637.8	631.9
30°	1194.4	1131.0	1051.8	952.8	835.9	736.9	647.7	572.5	528.9	517.0	515.0
32.5°	1103.3	1049.8	976.5	879.5	772.5	673.5	584.3	515.0	471.4	469.5	469.5
35°	982.5	933.0	871.6	788.4	697.2	606.1	522.9	463.5	427.9	427.9	425.9
37.5°	907.2	863.6	804.2	727.0	645.7	554.6	481.3	427.9	390.2	388.2	390.2
40°	867.6	822.0	764.6	691.3	610.1	522.9	453.6	398.1	370.4	368.4	366.4
42.5°	788.4	752.7	703.2	635.8	564.5	487.3	421.9	372.4	348.6	346.6	348.6
45°	669.5	643.8	610.1	560.6	501.1	435.8	378.3	340.7	316.9	316.9	316.9
47.5°	614.1	590.3	552.6	503.1	451.6	390.2	342.7	311.0	289.2	289.2	289.2
50°	600.2	570.5	521.0	465.5	410.0	356.5	313.0	281.3	265.4	263.4	265.4
52.5°	620.0	574.4	507.1	441.7	380.3	328.8	287.2	257.5	241.7	241.7	241.7
55°	691.3	608.1	519.0	435.8	362.5	305.0	263.4	233.7	217.9	215.9	217.9
57.5°	738.8	633.9	522.9	429.8	350.6	289.2	243.6	211.9	196.1	194.1	196.1
60°	697.2	612.1	505.1	414.0	340.7	277.3	229.8	198.1	182.2	180.3	180.3
62.5°	578.4	528.9	451.6	374.4	314.9	259.5	215.9	186.2	170.3	168.4	170.3
65°	513.0	469.5	402.1	340.7	289.2	241.7	204.0	178.3	162.4	162.4	162.4
67.5°	477.4	437.8	374.4	314.9	267.4	223.8	188.2	164.4	150.5	150.5	150.5
70°	435.8	396.2	338.7	285.2	241.7	204.0	172.3	148.6	136.7	134.7	136.7
72.5°	400.1	360.5	307.0	257.5	217.9	184.2	156.5	134.7	124.8	122.8	124.8
75°	360.5	322.9	271.4	227.8	194.1	164.4	140.6	120.8	112.9	110.9	110.9
77.5°	326.8	291.2	243.6	204.0	174.3	146.6	124.8	110.9	103.0	101.0	101.0
80°	297.1	263.4	217.9	182.2	154.5	130.7	112.9	99.0	91.1	91.1	91.1
82.5°	265.4	235.7	194.1	160.4	136.7	116.9	99.0	87.2	81.2	81.2	81.2
85°	239.7	210.0	170.3	142.6	118.8	101.0	87.2	77.3	71.3	71.3	71.3
87.5°	211.9	186.2	150.5	124.8	105.0	89.1	75.3	65.4	63.4	61.4	61.4
90°	184.2	160.4	128.8	107.0	89.1	75.3	63.4	55.5	53.5	51.5	51.5
92.5°	164.4	142.6	116.9	97.1	81.2	67.3	59.4	51.5	49.5	49.5	47.5
95°	142.6	124.8	103.0	87.2	73.3	63.4	55.5	49.5	47.5	47.5	45.6
97.5°	122.8	107.0	91.1	79.2	67.3	59.4	51.5	47.5	43.6	43.6	43.6
100°	103.0	91.1	79.2	67.3	61.4	53.5	47.5	43.6	41.6	39.6	39.6
102.5°	83.2	75.3	65.4	59.4	51.5	45.6	41.6	37.6	35.7	35.7	35.7
105°	71.3	65.4	59.4	53.5	47.5	41.6	37.6	33.7	31.7	31.7	31.7
107.5°	65.4	61.4	55.5	49.5	45.6	39.6	35.7	29.7	27.7	29.7	29.7
110°	63.4	59.4	53.5	49.5	43.6	39.6	35.7	27.7	25.8	27.7	27.7



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	63.4	59.4	55.5	49.5	45.6	39.6	35.7	27.7	25.8	25.8	25.8
115°	65.4	63.4	57.4	53.5	47.5	41.6	35.7	27.7	25.8	25.8	25.8
117.5°	73.3	69.3	63.4	57.4	51.5	43.6	37.6	27.7	25.8	25.8	25.8
120°	81.2	77.3	71.3	63.4	55.5	47.5	39.6	27.7	23.8	25.8	25.8
122.5°	95.1	89.1	81.2	71.3	61.4	51.5	39.6	29.7	21.8	25.8	25.8
125°	112.9	105.0	93.1	79.2	67.3	55.5	41.6	29.7	23.8	25.8	25.8
127.5°	132.7	122.8	107.0	89.1	73.3	57.4	43.6	29.7	23.8	23.8	25.8
130°	158.5	142.6	120.8	99.0	79.2	61.4	43.6	29.7	23.8	23.8	23.8
132.5°	180.3	160.4	132.7	107.0	83.2	63.4	43.6	29.7	21.8	21.8	21.8
135°	202.0	176.3	142.6	112.9	87.2	63.4	43.6	27.7	21.8	21.8	21.8
137.5°	219.9	186.2	150.5	114.9	87.2	61.4	41.6	25.8	19.8	19.8	19.8
140°	229.8	192.1	152.5	114.9	83.2	59.4	37.6	23.8	17.8	17.8	17.8
142.5°	229.8	190.2	150.5	110.9	79.2	55.5	33.7	19.8	15.8	15.8	15.8
145°	221.9	182.2	142.6	105.0	73.3	49.5	29.7	17.8	11.9	11.9	13.9
147.5°	208.0	168.4	130.7	95.1	65.4	41.6	25.8	13.9	9.9	9.9	9.9
150°	184.2	148.6	112.9	83.2	55.5	35.7	21.8	11.9	7.9	7.9	7.9
152.5°	154.5	122.8	95.1	69.3	45.6	27.7	15.8	9.9	5.9	5.9	5.9
155°	122.8	97.1	75.3	53.5	33.7	21.8	11.9	7.9	5.9	5.9	5.9
157.5°	91.1	73.3	55.5	39.6	25.8	15.8	9.9	5.9	4.0	4.0	4.0
160°	63.4	51.5	37.6	25.8	15.8	9.9	5.9	4.0	2.0	2.0	2.0
162.5°	41.6	31.7	23.8	15.8	9.9	5.9	4.0	2.0	2.0	2.0	2.0
165°	19.8	15.8	11.9	7.9	4.0	4.0	2.0	2.0	0.0	0.0	0.0
167.5°	5.9	4.0	2.0	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)