

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: P691459

Luminaire Tested: **CRTK2-C016-5TLD-U-T5R-7050-RMARROA5**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691459  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CRTK2-C016-5TLD-U-T5R-7050-RMARROA5  
Description: CARETAKER AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K LED WITH TYPE V ROUND OPTIC AND NEMA REFRACTOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

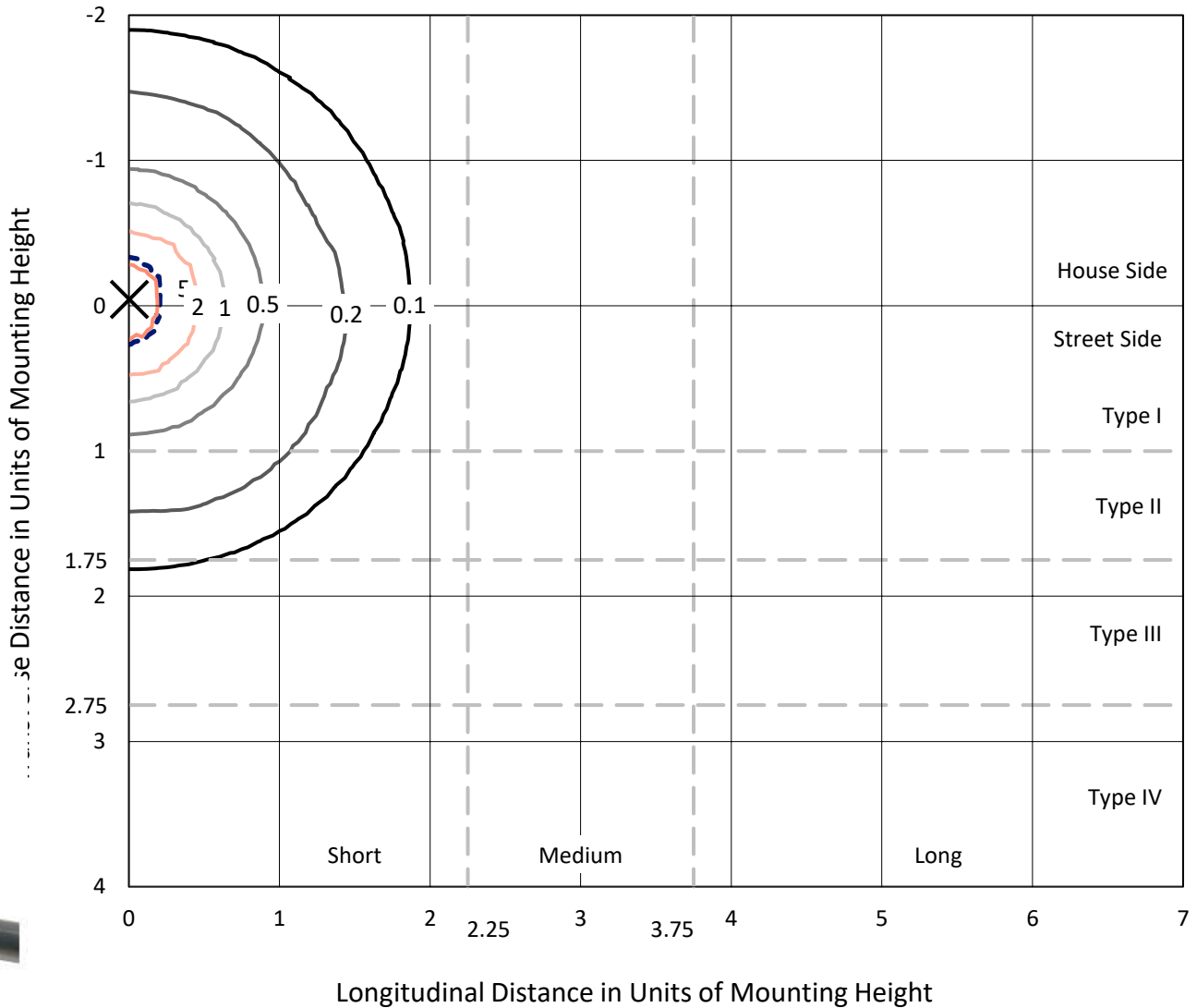
Lumens per Lamp: N/A  
Luminaire Lumens: 5531 lumens  
Efficiency: N/A  
Efficacy: 129.2 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')  
IES Classification: Type V - Short  
BUG Rating: B3 - U4 - G2  
  
Input Watts (W): 42.8  
Input Voltage (V): NR  
Input Current (Ain): 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

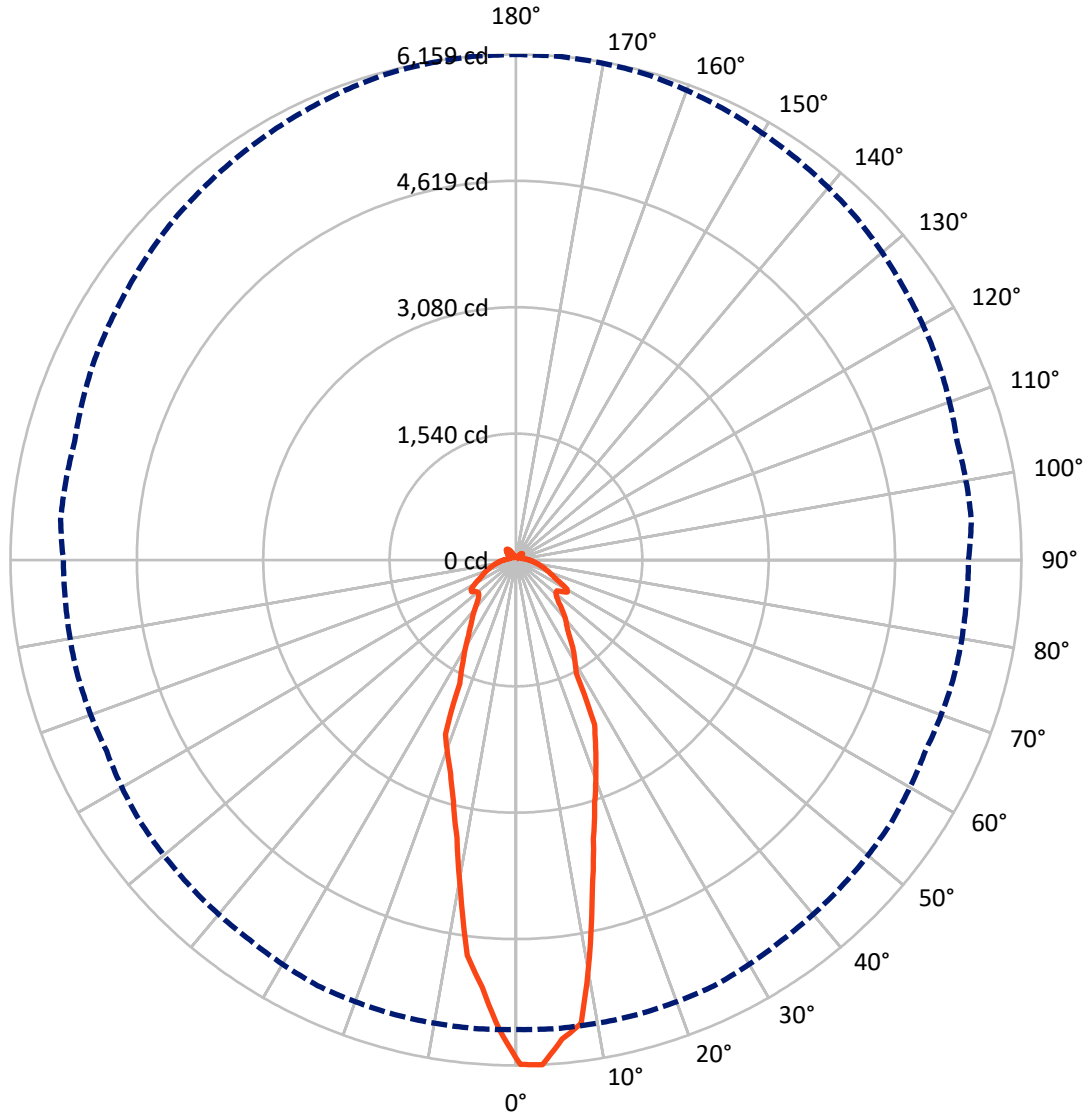
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 175-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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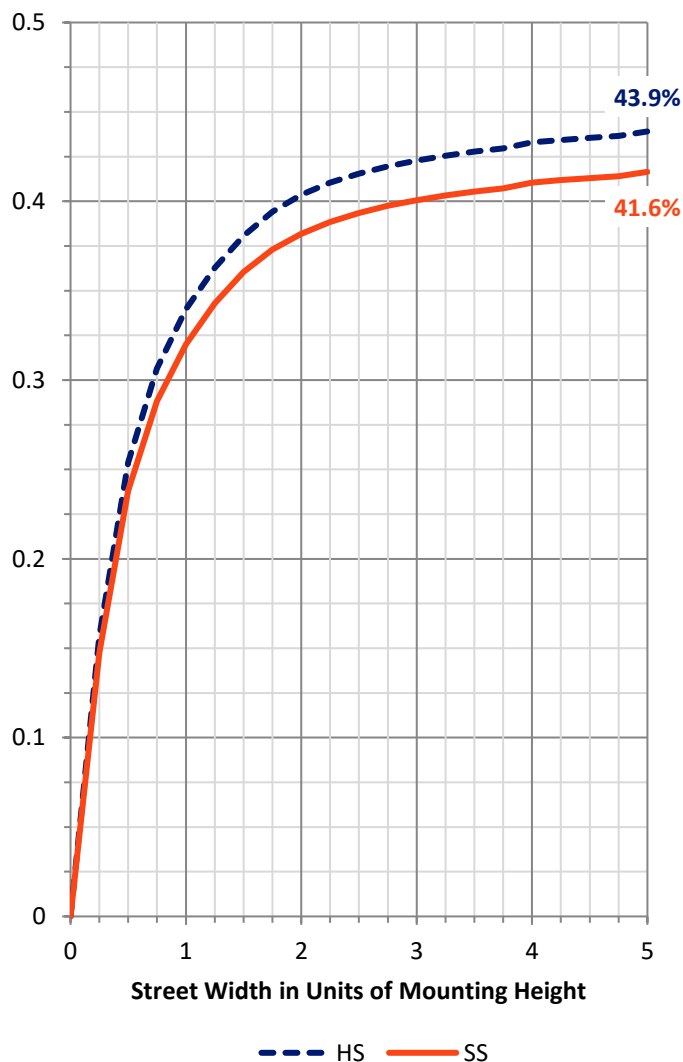
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2503.2	330.7	2833.9
	% Fixture	45.3	6.0	51.2
<b>Street Side</b>	Lumens	2357.7	339.4	2697.1
	% Fixture	42.6	6.1	48.8
<b>Total</b>	Lumens	4860.9	670.1	5531.0
	% Fixture	87.9	12.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	457.6	8.3
10°-20°	803.2	14.5
20°-30°	796.4	14.4
30°-40°	613.9	11.1
40°-50°	526.3	9.5
50°-60°	588.7	10.6
60°-70°	504.3	9.1
70°-80°	347.1	6.3
80°-90°	223.4	4.0
90°-100°	133.9	2.4
100°-110°	79.6	1.4
110°-120°	73.7	1.3
120°-130°	105.2	1.9
130°-140°	135.9	2.5
140°-150°	100.6	1.8
150°-160°	36.8	0.7
160°-170°	4.3	0.1
170°-180°	0.0	0.0
0°-90°	4860.9	87.9
0°-180°	5531.0	100.0

**Coefficient of Utilization**



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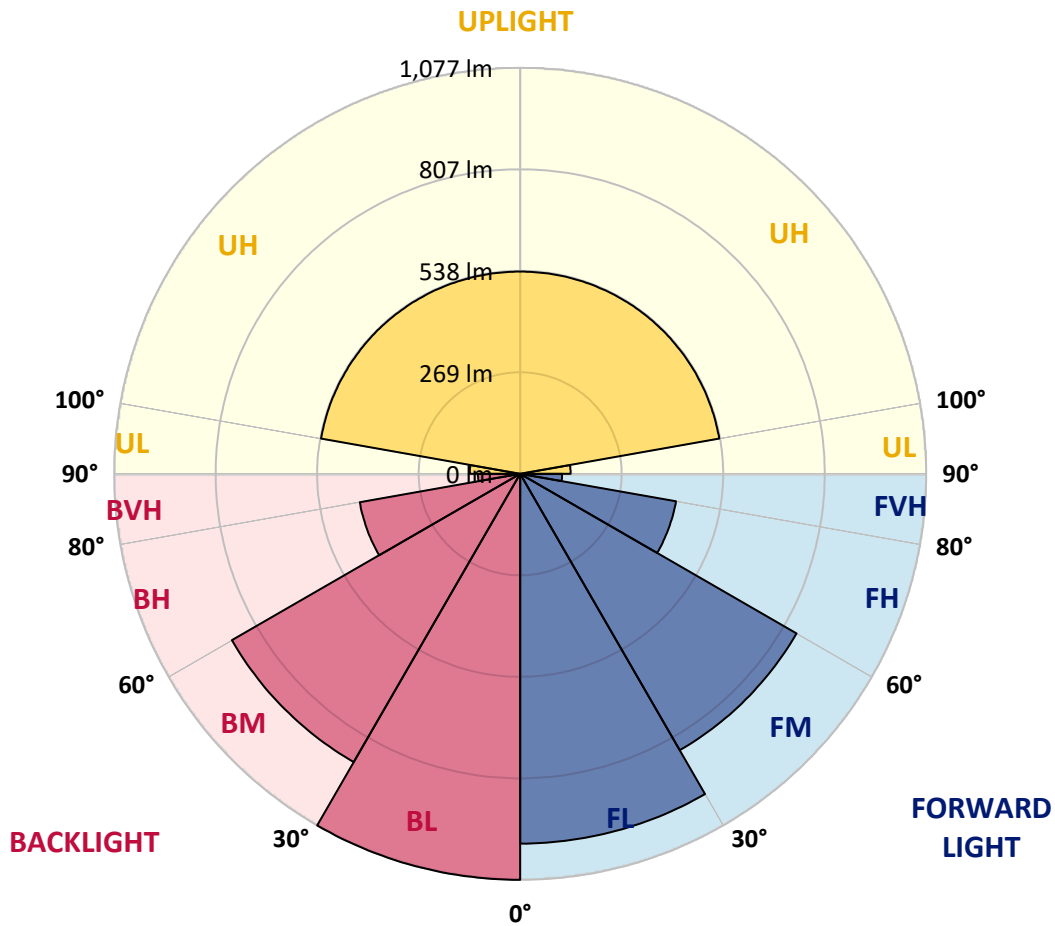
CATALOG NUMBER: CRTK2-C016-5TLD-U-T5R-7050-RMARROA5

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	980.5	17.7			
FM (30°-60°)	846.2	15.3			
FH (60°-80°)	419.5	7.6			G0/660
FVH (80°-90°)	111.3	2.0			G2/225
BL (0°-30°)	1076.6	19.5	B3/2500		
BM (30°-60°)	882.7	16.0	B1/1000		
BH (60°-80°)	431.9	7.8	B1/500		G0/660
BVH (80°-90°)	112.1	2.0			G2/225
UL (90°-100°)	133.9	2.4		U3/500	
UH (100°-180°)	536.2	9.7		U4/1000	

**BUG Rating: B3-U4-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6146.6	6146.6	6146.6	6146.6	6146.6	6146.6	6146.6	6146.6	6146.6	6146.6	6146.6
2.5°	5722.1	5730.4	5732.5	5722.1	5653.5	5618.1	5580.6	5505.7	5522.4	5512.0	5514.0
5°	5189.4	5222.7	5170.7	5156.2	5052.1	4975.1	4900.2	4819.1	4800.3	4767.0	4779.5
7.5°	4835.7	4854.4	4769.1	4681.7	4515.3	4396.7	4271.8	4147.0	4053.3	4018.0	4032.5
10°	4026.3	4088.7	4003.4	3913.9	3755.8	3614.3	3483.2	3360.4	3275.1	3248.1	3252.2
12.5°	3422.9	3458.2	3385.4	3325.1	3148.2	3013.0	2892.3	2777.8	2709.2	2680.0	2680.0
15°	3023.4	3037.9	2981.7	2865.2	2732.1	2609.3	2507.3	2424.1	2367.9	2357.5	2361.7
17.5°	2721.6	2721.6	2665.5	2573.9	2472.0	2363.8	2293.0	2230.6	2205.6	2213.9	2216.0
20°	2494.8	2496.9	2447.0	2357.5	2270.1	2172.3	2114.1	2070.4	2055.8	2070.4	2072.4
22.5°	2280.5	2290.9	2236.8	2170.2	2074.5	1997.5	1949.7	1901.8	1893.5	1899.7	1899.7
25°	1650.1	1650.1	1631.3	1579.3	1600.1	1608.4	1664.6	1785.3	1760.3	1783.2	1781.1
27.5°	1423.2	1431.6	1394.1	1348.3	1300.5	1244.3	1233.9	1223.5	1213.1	1260.9	1277.6
30°	1256.8	1260.9	1229.7	1198.5	1159.0	1127.8	1119.5	1119.5	1109.1	1146.5	1144.4
32.5°	1098.6	1092.4	1084.1	1055.0	1030.0	1002.9	1009.2	1005.0	1005.0	1038.3	1040.4
35°	973.8	971.7	965.5	944.7	919.7	898.9	905.1	909.3	907.2	928.0	928.0
37.5°	882.2	884.3	880.2	871.8	846.9	830.2	834.4	830.2	836.5	851.0	851.0
40°	792.8	792.8	794.9	792.8	776.1	769.9	782.4	776.1	790.7	801.1	796.9
42.5°	707.5	709.5	713.7	709.5	699.1	692.9	699.1	701.2	722.0	736.6	734.5
45°	653.4	653.4	655.4	653.4	645.0	638.8	638.8	632.6	647.1	655.4	653.4
47.5°	618.0	618.0	622.2	620.1	615.9	609.7	605.5	597.2	603.4	609.7	603.4
50°	605.5	605.5	613.8	613.8	611.7	605.5	599.3	588.9	590.9	595.1	586.8
52.5°	624.2	624.2	638.8	645.0	645.0	634.6	626.3	611.7	611.7	615.9	603.4
55°	663.8	663.8	686.7	699.1	701.2	701.2	690.8	676.3	678.3	686.7	674.2
57.5°	649.2	651.3	670.0	686.7	697.1	703.3	703.3	695.0	701.2	722.0	715.8
60°	580.5	584.7	597.2	611.7	630.5	636.7	636.7	634.6	645.0	670.0	670.0
62.5°	516.0	518.1	524.4	536.8	547.2	551.4	551.4	543.1	555.6	568.1	563.9
65°	466.1	464.0	476.5	486.9	493.1	499.4	493.1	484.8	491.1	499.4	497.3
67.5°	424.5	424.5	434.9	443.2	447.4	453.6	449.4	445.3	453.6	457.8	453.6
70°	384.9	387.0	395.3	401.6	405.8	412.0	405.8	403.7	412.0	416.2	414.1
72.5°	345.4	347.5	353.7	362.1	366.2	368.3	366.2	364.1	370.4	374.5	374.5
75°	310.0	312.1	316.3	324.6	324.6	328.8	326.7	324.6	330.8	335.0	335.0
77.5°	276.7	280.9	283.0	289.2	291.3	293.4	291.3	291.3	295.5	299.6	301.7
80°	247.6	249.7	251.8	258.0	258.0	260.1	258.0	258.0	262.2	268.4	268.4
82.5°	220.6	222.6	224.7	228.9	226.8	228.9	228.9	228.9	233.0	239.3	239.3
85°	193.5	197.7	197.7	201.8	201.8	201.8	201.8	203.9	206.0	212.2	212.2
87.5°	170.6	172.7	174.8	176.9	176.9	178.9	178.9	181.0	183.1	187.3	189.4
90°	147.7	149.8	151.9	151.9	151.9	154.0	154.0	156.1	158.1	162.3	164.4
92.5°	131.1	133.2	133.2	135.3	135.3	135.3	137.3	139.4	141.5	145.7	145.7
95°	116.5	118.6	118.6	118.6	118.6	120.7	120.7	122.8	124.8	129.0	129.0
97.5°	104.0	104.0	104.0	104.0	104.0	106.1	106.1	108.2	110.3	112.4	112.4
100°	91.6	91.6	91.6	91.6	91.6	91.6	91.6	93.6	93.6	97.8	97.8
102.5°	81.2	81.2	79.1	79.1	79.1	77.0	77.0	79.1	79.1	81.2	81.2
105°	72.8	72.8	72.8	72.8	70.7	70.7	70.7	70.7	70.7	72.8	72.8
107.5°	70.7	70.7	68.7	68.7	68.7	66.6	66.6	66.6	66.6	68.7	68.7
110°	68.7	68.7	68.7	68.7	66.6	66.6	64.5	64.5	64.5	66.6	66.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	70.7	70.7	70.7	68.7	68.7	66.6	66.6	66.6	66.6	66.6	68.7
115°	74.9	72.8	72.8	72.8	72.8	70.7	68.7	68.7	70.7	70.7	70.7
117.5°	81.2	79.1	79.1	81.2	79.1	77.0	74.9	74.9	77.0	77.0	79.1
120°	89.5	87.4	89.5	89.5	89.5	87.4	85.3	83.2	85.3	87.4	87.4
122.5°	99.9	97.8	99.9	102.0	102.0	99.9	95.7	95.7	97.8	99.9	102.0
125°	112.4	112.4	114.4	116.5	118.6	114.4	112.4	110.3	114.4	116.5	116.5
127.5°	126.9	124.8	129.0	135.3	137.3	133.2	129.0	126.9	131.1	135.3	135.3
130°	141.5	139.4	145.7	151.9	156.1	151.9	147.7	145.7	149.8	154.0	154.0
132.5°	154.0	151.9	160.2	168.5	172.7	170.6	166.5	162.3	168.5	172.7	170.6
135°	164.4	164.4	174.8	183.1	187.3	185.2	181.0	176.9	185.2	189.4	185.2
137.5°	170.6	170.6	183.1	191.4	195.6	195.6	193.5	189.4	197.7	199.8	193.5
140°	170.6	172.7	183.1	191.4	193.5	195.6	195.6	193.5	201.8	201.8	195.6
142.5°	164.4	166.5	176.9	185.2	187.3	189.4	191.4	189.4	195.6	195.6	191.4
145°	154.0	156.1	166.5	174.8	174.8	176.9	181.0	178.9	183.1	185.2	181.0
147.5°	139.4	141.5	149.8	154.0	156.1	160.2	164.4	164.4	166.5	168.5	166.5
150°	120.7	120.7	126.9	131.1	133.2	137.3	141.5	143.6	143.6	145.7	143.6
152.5°	95.7	95.7	99.9	104.0	106.1	112.4	114.4	116.5	118.6	120.7	118.6
155°	72.8	72.8	74.9	77.0	79.1	85.3	87.4	89.5	91.6	93.6	91.6
157.5°	52.0	52.0	54.1	56.2	58.3	62.4	64.5	66.6	66.6	68.7	68.7
160°	33.3	35.4	35.4	37.5	37.5	41.6	43.7	43.7	45.8	47.9	47.9
162.5°	16.6	18.7	18.7	20.8	22.9	25.0	27.1	27.1	29.1	29.1	29.1
165°	4.2	6.2	6.2	8.3	8.3	10.4	12.5	12.5	14.6	14.6	14.6
167.5°	0.0	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	4.2	4.2
170°	0.0	0.0	0.0	0.0	2.1	0.0	0.0	2.1	2.1	2.1	2.1
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°	6146.6	6146.6	6146.6	6146.6	6146.6	6146.6	6146.6	6146.6	6146.6	6146.6	6146.6
2.5°	5570.2	5566.1	5680.5	5772.1	5880.3	5965.6	6048.8	6127.9	6159.1	6157.0	6159.1
5°	4835.7	4908.5	5058.4	5206.1	5380.9	5545.3	5699.2	5801.2	5865.7	5865.7	5871.9
7.5°	4099.1	4215.6	4400.8	4636.0	4898.1	5112.5	5372.6	5555.7	5701.3	5697.2	5724.2
10°	3310.5	3402.1	3587.3	3839.0	4128.3	4375.9	4602.7	4773.3	4914.8	4906.5	4941.8
12.5°	2719.6	2784.1	2944.3	3173.2	3437.4	3676.7	3899.4	4032.5	4132.4	4130.3	4149.1
15°	2372.1	2438.7	2542.7	2700.8	2919.3	3131.6	3354.2	3474.9	3531.1	3524.8	3556.0
17.5°	2230.6	2257.6	2322.1	2428.3	2586.4	2759.1	2936.0	3040.0	3104.5	3096.2	3119.1
20°	2078.7	2103.7	2147.4	2226.4	2338.8	2469.9	2619.7	2734.1	2782.0	2779.9	2794.5
22.5°	1903.9	1916.4	1964.2	2026.7	2107.8	2213.9	2328.4	2432.4	2480.3	2478.2	2492.8
25°	1783.2	1804.0	1833.2	1870.6	1926.8	2010.0	2105.7	2178.6	2222.3	2218.1	2236.8
27.5°	1302.6	1323.4	1337.9	1360.8	1362.9	1431.6	1464.9	1525.2	1564.7	1562.7	1575.1
30°	1144.4	1148.6	1161.1	1192.3	1211.0	1265.1	1331.7	1377.5	1410.8	1423.2	1431.6
32.5°	1044.5	1057.0	1071.6	1086.2	1109.1	1142.3	1194.4	1236.0	1271.4	1277.6	1292.2
35°	930.1	938.4	948.8	963.4	978.0	1005.0	1044.5	1077.8	1104.9	1115.3	1123.6
37.5°	849.0	851.0	861.4	878.1	890.6	913.5	948.8	973.8	1000.9	1002.9	1011.3
40°	794.9	796.9	807.3	821.9	836.5	851.0	882.2	905.1	923.9	925.9	932.2
42.5°	732.4	738.7	742.8	749.1	759.5	772.0	799.0	811.5	824.0	826.1	834.4
45°	647.1	649.2	653.4	659.6	672.1	684.6	703.3	717.9	726.2	726.2	724.1
47.5°	599.3	601.3	601.3	609.7	620.1	632.6	649.2	661.7	665.8	665.8	665.8
50°	582.6	582.6	578.5	584.7	595.1	603.4	620.1	630.5	632.6	634.6	636.7
52.5°	595.1	590.9	578.5	584.7	595.1	603.4	620.1	624.2	624.2	628.4	630.5
55°	663.8	657.5	632.6	636.7	649.2	659.6	672.1	674.2	678.3	684.6	682.5
57.5°	707.5	711.6	682.5	688.7	711.6	719.9	734.5	732.4	740.8	749.1	751.2
60°	665.8	678.3	655.4	663.8	690.8	695.0	709.5	701.2	713.7	713.7	713.7
62.5°	566.0	570.1	557.6	570.1	595.1	595.1	605.5	599.3	603.4	599.3	601.3
65°	495.2	493.1	478.6	495.2	503.5	507.7	516.0	518.1	518.1	514.0	514.0
67.5°	451.5	447.4	434.9	439.0	447.4	449.4	461.9	464.0	461.9	461.9	464.0
70°	412.0	405.8	393.3	395.3	401.6	403.7	414.1	418.2	416.2	414.1	416.2
72.5°	372.5	366.2	353.7	353.7	360.0	364.1	372.5	376.6	372.5	372.5	374.5
75°	335.0	328.8	316.3	316.3	320.4	322.5	332.9	335.0	332.9	330.8	332.9
77.5°	301.7	297.6	285.1	285.1	287.1	289.2	295.5	297.6	295.5	293.4	295.5
80°	270.5	264.3	255.9	253.9	255.9	255.9	262.2	264.3	260.1	260.1	262.2
82.5°	241.4	235.1	226.8	226.8	224.7	226.8	231.0	233.0	231.0	228.9	231.0
85°	214.3	210.2	201.8	199.8	199.8	199.8	203.9	203.9	201.8	201.8	201.8
87.5°	189.4	185.2	176.9	176.9	174.8	176.9	178.9	178.9	176.9	176.9	176.9
90°	164.4	160.2	154.0	154.0	151.9	154.0	156.1	156.1	154.0	154.0	154.0
92.5°	145.7	143.6	137.3	137.3	135.3	137.3	137.3	137.3	135.3	135.3	135.3
95°	129.0	126.9	122.8	120.7	120.7	120.7	120.7	120.7	118.6	118.6	118.6
97.5°	112.4	110.3	106.1	106.1	104.0	106.1	106.1	106.1	104.0	104.0	104.0
100°	97.8	95.7	93.6	93.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
102.5°	81.2	81.2	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
105°	72.8	72.8	72.8	72.8	74.9	74.9	74.9	72.8	72.8	72.8	72.8
107.5°	68.7	68.7	68.7	70.7	70.7	70.7	72.8	68.7	66.6	66.6	66.6
110°	66.6	66.6	68.7	68.7	70.7	70.7	72.8	64.5	62.4	62.4	62.4



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	68.7	68.7	68.7	70.7	72.8	72.8	74.9	64.5	62.4	62.4	62.4
115°	72.8	72.8	72.8	74.9	77.0	79.1	79.1	68.7	64.5	64.5	66.6
117.5°	79.1	79.1	79.1	81.2	85.3	85.3	85.3	72.8	70.7	70.7	70.7
120°	87.4	89.5	89.5	91.6	95.7	97.8	93.6	83.2	70.7	77.0	77.0
122.5°	99.9	102.0	104.0	106.1	112.4	112.4	106.1	95.7	77.0	85.3	87.4
125°	116.5	118.6	120.7	124.8	131.1	131.1	122.8	108.2	87.4	95.7	97.8
127.5°	133.2	137.3	139.4	145.7	154.0	154.0	143.6	124.8	97.8	104.0	106.1
130°	151.9	156.1	160.2	168.5	178.9	174.8	166.5	141.5	106.1	110.3	110.3
132.5°	168.5	174.8	176.9	189.4	199.8	195.6	185.2	151.9	110.3	110.3	108.2
135°	181.0	185.2	187.3	199.8	210.2	203.9	191.4	156.1	108.2	104.0	104.0
137.5°	189.4	193.5	195.6	203.9	212.2	201.8	185.2	147.7	104.0	102.0	99.9
140°	193.5	193.5	193.5	199.8	203.9	191.4	170.6	133.2	93.6	97.8	97.8
142.5°	189.4	187.3	185.2	189.4	191.4	176.9	158.1	118.6	85.3	89.5	89.5
145°	178.9	174.8	172.7	174.8	174.8	158.1	137.3	102.0	74.9	77.0	77.0
147.5°	164.4	158.1	154.0	154.0	151.9	135.3	116.5	85.3	64.5	62.4	62.4
150°	141.5	135.3	131.1	131.1	124.8	110.3	93.6	66.6	52.0	52.0	52.0
152.5°	116.5	110.3	106.1	106.1	99.9	85.3	70.7	49.9	39.5	39.5	39.5
155°	91.6	85.3	81.2	79.1	74.9	64.5	52.0	37.5	29.1	29.1	29.1
157.5°	68.7	64.5	60.3	58.3	54.1	47.9	37.5	27.1	18.7	20.8	20.8
160°	47.9	43.7	41.6	39.5	37.5	31.2	25.0	16.6	10.4	10.4	10.4
162.5°	29.1	27.1	27.1	25.0	22.9	20.8	14.6	8.3	4.2	4.2	4.2
165°	14.6	14.6	12.5	12.5	10.4	8.3	6.2	2.1	0.0	0.0	0.0
167.5°	4.2	4.2	4.2	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
170°	2.1	2.1	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)