

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: P690937

Luminaire Tested: **CRTK2-C01-D-U-T2-7050-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P690937
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-C01-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: 6551 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B3 - U4 - G2

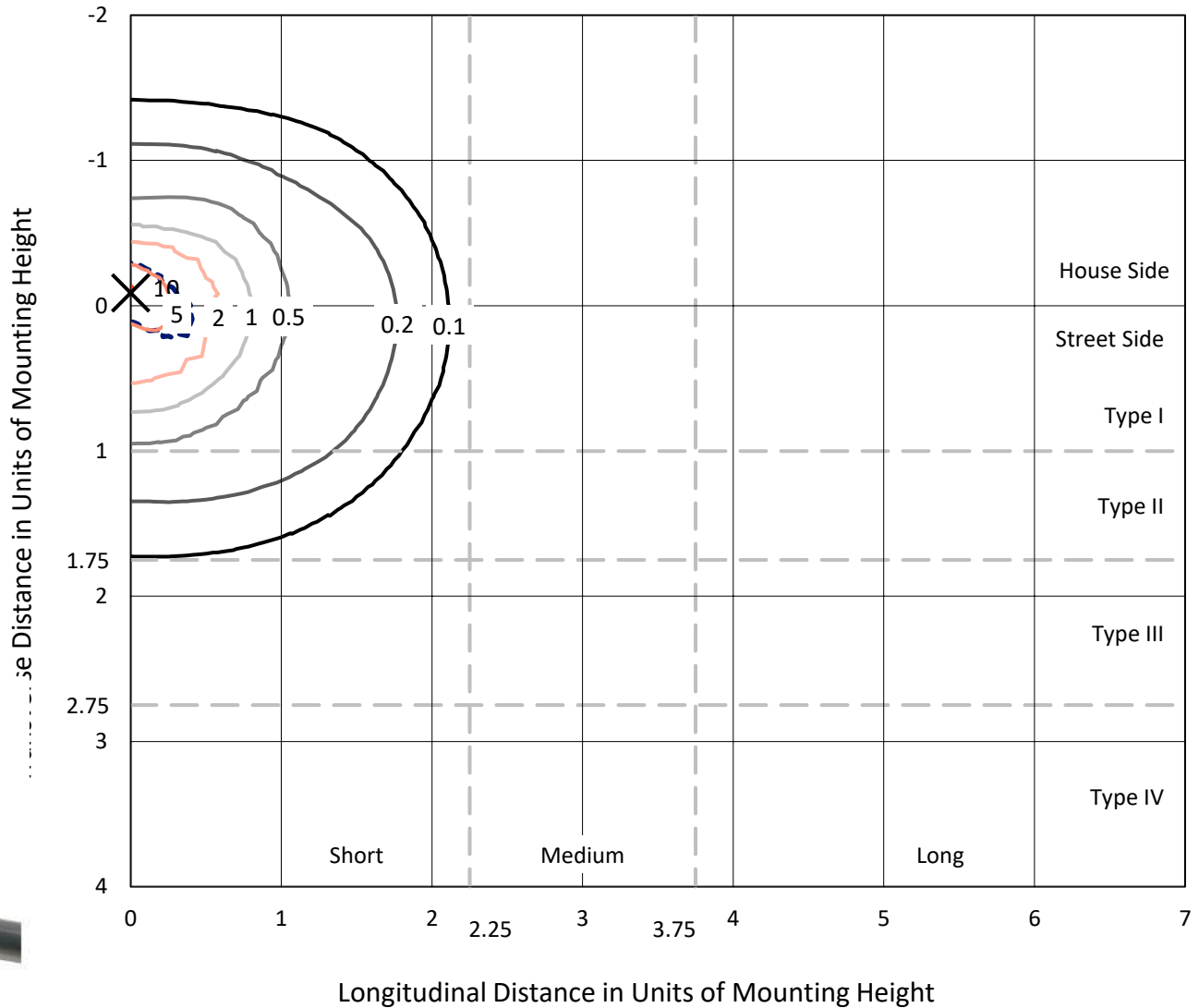
Input Watts (W): 61
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

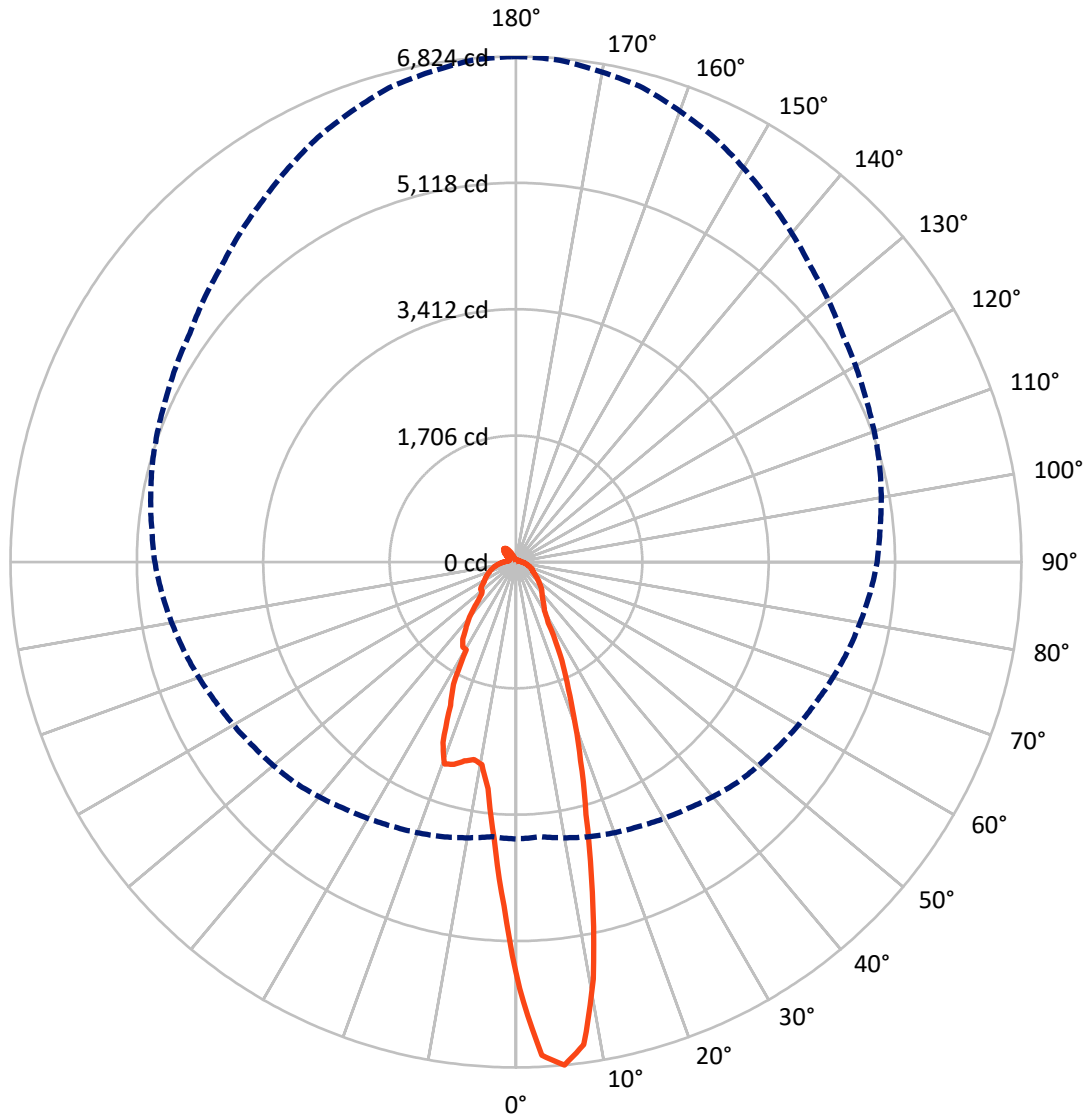
✕ Max cd
 - - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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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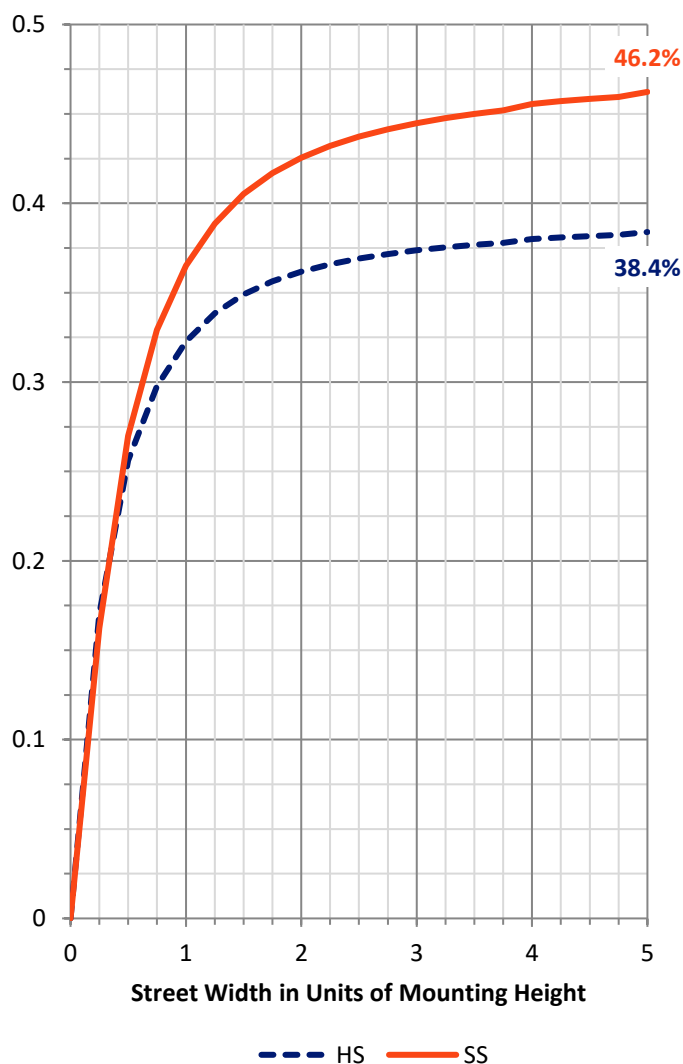
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2581.7	303.1	2884.8
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	3102.8	563.5	3666.2
	% Fixture	47.4	8.6	56.0
Total	Lumens	5684.4	866.6	6551.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.8	6.8
10°-20°	945.9	14.4
20°-30°	1029.4	15.7
30°-40°	753.6	11.5
40°-50°	633.5	9.7
50°-60°	643.4	9.8
60°-70°	546.9	8.3
70°-80°	408.1	6.2
80°-90°	277.8	4.2
90°-100°	166.8	2.5
100°-110°	95.6	1.5
110°-120°	88.0	1.3
120°-130°	127.9	2.0
130°-140°	175.9	2.7
140°-150°	145.6	2.2
150°-160°	59.2	0.9
160°-170°	7.4	0.1
170°-180°	0.0	0.0
0°-90°	5684.4	86.8
0°-180°	6551.0	100.0

Coefficient of Utilization



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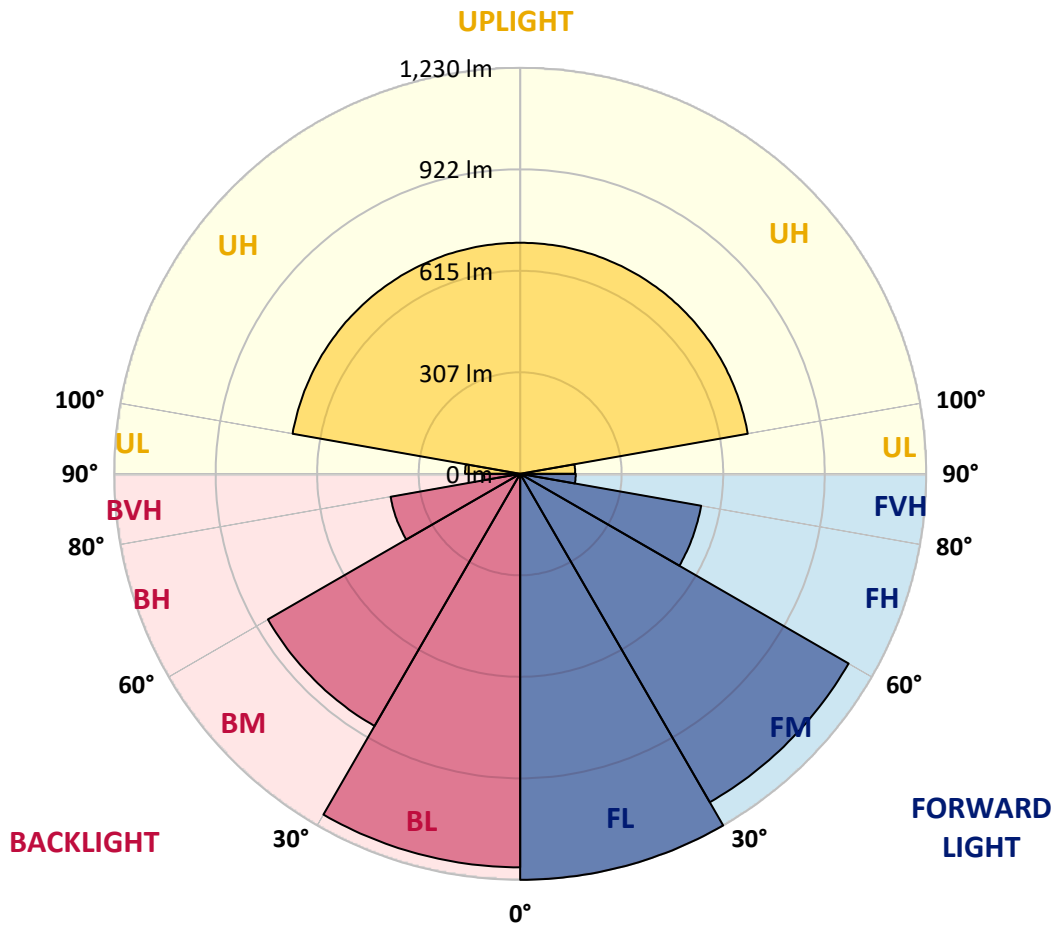
CATALOG NUMBER: CRTK2-C01-D-U-T2-7050-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1229.5	18.8			
FM (30°-60°)	1148.5	17.5			
FH (60°-80°)	556.5	8.5			G0/660
FVH (80°-90°)	168.2	2.6			G2/225
BL (0°-30°)	1191.6	18.2	B3/2500		
BM (30°-60°)	882.0	13.5	B1/1000		
BH (60°-80°)	398.5	6.1	B1/500		G1/500
BVH (80°-90°)	109.6	1.7			G2/225
UL (90°-100°)	166.8	2.5		U3/500	
UH (100°-180°)	699.8	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°	5758.8	5758.8	5758.8	5758.8	5758.8	5758.8	5758.8	5758.8	5758.8	5758.8	5758.8
2.5°	4644.4	4635.6	4699.8	4714.4	4720.2	4787.3	4877.8	4939.0	5049.9	5157.8	5201.6
5°	3740.0	3722.5	3839.2	3938.4	4058.0	4215.5	4332.2	4472.3	4638.6	4799.0	4874.9
7.5°	3083.6	3107.0	3273.2	3477.5	3670.0	3856.7	3999.7	4119.3	4215.5	4317.6	4338.1
10°	2774.4	2794.8	2958.2	3153.6	3331.6	3521.2	3643.7	3745.8	3807.1	3883.0	3909.2
12.5°	2724.8	2739.4	2850.2	2987.3	3121.5	3293.7	3448.3	3562.1	3632.1	3693.3	3699.2
15°	2774.4	2780.2	2847.3	2937.7	3054.4	3197.4	3375.3	3503.7	3582.5	3608.7	3602.9
17.5°	2856.1	2856.1	2888.2	2964.0	3074.9	3212.0	3381.2	3512.5	3594.1	3605.8	3582.5
20°	2891.1	2896.9	2917.3	3001.9	3101.1	3226.6	3395.8	3506.6	3570.8	3538.7	3497.9
22.5°	2628.5	2616.8	2672.3	2850.2	3071.9	3296.6	3457.0	3582.5	3617.5	3509.5	3422.0
25°	2126.7	2132.6	2167.6	2255.1	2427.2	2634.3	2990.3	3372.4	3637.9	3597.1	3465.8
27.5°	1855.4	1837.9	1846.7	1861.3	1837.9	1794.2	1835.0	1826.2	1820.4	1925.4	1937.1
30°	1362.4	1365.3	1379.9	1406.2	1461.6	1543.3	1630.8	1680.4	1724.1	1805.8	1794.2
32.5°	1353.6	1356.6	1365.3	1388.6	1417.8	1473.3	1528.7	1549.1	1595.8	1662.9	1642.5
35°	1266.1	1257.4	1280.7	1301.1	1309.9	1333.2	1377.0	1406.2	1435.3	1482.0	1470.3
37.5°	1123.2	1126.1	1172.8	1204.9	1213.6	1245.7	1286.5	1309.9	1342.0	1382.8	1362.4
40°	1000.6	1003.6	1059.0	1094.0	1114.4	1158.2	1219.4	1248.6	1301.1	1333.2	1309.9
42.5°	860.6	872.3	910.2	951.0	962.7	989.0	1029.8	1067.7	1134.8	1178.6	1164.0
45°	717.7	723.5	749.8	790.6	808.1	837.3	875.2	910.2	962.7	997.7	994.8
47.5°	633.1	638.9	662.2	697.2	732.2	770.2	811.0	846.0	895.6	924.8	913.1
50°	598.1	603.9	633.1	673.9	717.7	767.3	816.9	854.8	901.5	919.0	904.4
52.5°	603.9	603.9	644.7	697.2	758.5	825.6	886.9	933.5	971.5	983.1	951.0
55°	571.8	580.5	624.3	697.2	790.6	895.6	1000.6	1099.8	1155.3	1143.6	1082.3
57.5°	522.2	531.0	563.0	641.8	741.0	866.4	1015.2	1137.8	1204.9	1213.6	1152.3
60°	493.0	498.9	528.0	589.3	676.8	778.9	913.1	1012.3	1088.2	1111.5	1067.7
62.5°	466.8	472.6	495.9	542.6	606.8	685.6	761.4	825.6	886.9	910.2	892.7
65°	437.6	440.5	463.9	504.7	557.2	624.3	688.5	735.2	784.8	799.3	778.9
67.5°	408.4	411.3	431.8	469.7	519.3	580.5	630.1	682.7	732.2	743.9	729.3
70°	382.2	385.1	402.6	437.6	481.4	539.7	586.4	621.4	671.0	682.7	665.2
72.5°	355.9	358.8	376.3	408.4	449.3	501.8	542.6	577.6	618.5	621.4	606.8
75°	329.7	332.6	347.2	376.3	411.3	463.9	501.8	531.0	566.0	566.0	548.5
77.5°	300.5	306.3	318.0	344.2	376.3	425.9	460.9	490.1	519.3	516.4	498.9
80°	274.2	277.1	288.8	312.2	341.3	388.0	423.0	446.4	472.6	469.7	455.1
82.5°	245.1	248.0	256.7	280.1	306.3	350.1	385.1	408.4	431.8	425.9	411.3
85°	215.9	218.8	230.5	248.0	274.2	315.1	347.2	370.5	388.0	382.2	370.5
87.5°	192.5	192.5	201.3	218.8	242.1	280.1	309.2	332.6	347.2	344.2	332.6
90°	166.3	169.2	175.0	189.6	210.0	242.1	271.3	291.7	306.3	300.5	288.8
92.5°	145.9	145.9	151.7	166.3	183.8	213.0	239.2	256.7	268.4	265.5	256.7
95°	125.4	128.4	131.3	142.9	157.5	180.9	204.2	221.7	233.4	230.5	224.6
97.5°	110.9	113.8	116.7	122.5	137.1	151.7	172.1	186.7	198.4	195.5	189.6
100°	102.1	102.1	102.1	107.9	116.7	128.4	142.9	154.6	160.5	163.4	157.5
102.5°	93.4	93.4	96.3	96.3	102.1	107.9	116.7	125.4	128.4	128.4	128.4
105°	90.4	90.4	93.4	93.4	96.3	99.2	105.0	107.9	110.9	110.9	107.9
107.5°	90.4	90.4	90.4	90.4	93.4	96.3	99.2	102.1	102.1	102.1	99.2
110°	93.4	93.4	93.4	93.4	93.4	96.3	96.3	99.2	99.2	96.3	96.3



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CATALOG NUMBER: CRTK2-C01-D-U-T2-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	96.3	96.3	96.3	96.3	96.3	99.2	99.2	99.2	99.2	96.3	96.3
115°	102.1	102.1	102.1	105.0	105.0	105.0	105.0	105.0	105.0	102.1	99.2
117.5°	113.8	113.8	113.8	113.8	116.7	116.7	116.7	116.7	116.7	110.9	110.9
120°	128.4	125.4	128.4	131.3	134.2	134.2	134.2	134.2	134.2	128.4	125.4
122.5°	142.9	142.9	145.9	151.7	157.5	160.5	157.5	157.5	157.5	148.8	145.9
125°	160.5	160.5	169.2	180.9	189.6	192.5	189.6	189.6	189.6	180.9	175.0
127.5°	180.9	180.9	192.5	210.0	224.6	233.4	230.5	230.5	230.5	215.9	207.1
130°	201.3	201.3	218.8	242.1	265.5	271.3	274.2	277.1	277.1	259.6	248.0
132.5°	215.9	218.8	239.2	271.3	300.5	309.2	318.0	320.9	320.9	300.5	283.0
135°	230.5	233.4	259.6	297.6	329.7	350.1	358.8	361.7	364.7	341.3	320.9
137.5°	239.2	242.1	271.3	315.1	347.2	373.4	393.8	399.7	399.7	373.4	347.2
140°	239.2	242.1	274.2	315.1	350.1	382.2	405.5	417.2	417.2	390.9	367.6
142.5°	233.4	239.2	268.4	309.2	344.2	376.3	402.6	414.3	414.3	390.9	367.6
145°	221.7	224.6	253.8	288.8	323.8	361.7	390.9	402.6	402.6	379.3	355.9
147.5°	201.3	204.2	227.6	259.6	294.7	332.6	361.7	376.3	373.4	353.0	332.6
150°	175.0	175.0	195.5	221.7	256.7	291.7	320.9	335.5	335.5	315.1	297.6
152.5°	142.9	142.9	157.5	178.0	207.1	242.1	265.5	280.1	280.1	265.5	250.9
155°	110.9	110.9	122.5	137.1	160.5	186.7	204.2	218.8	218.8	207.1	195.5
157.5°	78.8	78.8	90.4	102.1	119.6	140.0	154.6	163.4	166.3	154.6	148.8
160°	52.5	52.5	58.3	67.1	81.7	96.3	105.0	113.8	116.7	107.9	105.0
162.5°	29.2	29.2	32.1	40.8	49.6	58.3	67.1	72.9	72.9	70.0	67.1
165°	8.8	8.8	11.7	14.6	20.4	26.3	29.2	32.1	35.0	35.0	32.1
167.5°	0.0	0.0	2.9	2.9	2.9	2.9	5.8	5.8	8.8	8.8	8.8
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°	5758.8	5758.8	5758.8	5758.8	5758.8	5758.8	5758.8	5758.8	5758.8	5758.8	5758.8
2.5°	5292.0	5455.4	5633.4	5805.5	6015.5	6234.3	6435.6	6572.7	6645.7	6669.0	6669.0
5°	4933.2	5082.0	5213.3	5376.6	5630.4	5960.1	6324.8	6628.2	6800.3	6820.7	6823.6
7.5°	4373.1	4495.6	4632.7	4778.6	5003.2	5297.9	5779.2	6269.3	6549.4	6601.9	6581.5
10°	3915.1	3990.9	4072.6	4128.0	4285.6	4504.4	4831.1	5312.5	5656.7	5697.5	5726.7
12.5°	3702.1	3713.8	3690.4	3702.1	3754.6	3856.7	4017.2	4294.3	4518.9	4556.9	4577.3
15°	3594.1	3535.8	3442.4	3354.9	3308.2	3317.0	3352.0	3465.8	3503.7	3567.9	3538.7
17.5°	3544.6	3413.3	3267.4	3098.2	2993.2	2885.2	2826.9	2806.5	2791.9	2794.8	2821.1
20°	3419.1	3270.3	3036.9	2815.2	2646.0	2497.2	2371.8	2281.4	2231.8	2208.4	2225.9
22.5°	3287.8	3057.4	2783.1	2543.9	2301.8	2112.1	1969.2	1837.9	1765.0	1785.4	1762.1
25°	3290.7	2946.5	2619.8	2304.7	2077.1	1826.2	1598.7	1461.6	1342.0	1365.3	1397.4
27.5°	2074.2	1983.8	1750.4	1566.6	1339.1	1213.6	1099.8	1003.6	936.5	939.4	930.6
30°	1759.1	1665.8	1549.1	1403.2	1231.1	1085.2	954.0	843.1	778.9	761.4	758.5
32.5°	1625.0	1546.2	1438.2	1295.3	1137.8	991.9	860.6	758.5	694.3	691.4	691.4
35°	1447.0	1374.1	1283.6	1161.1	1026.9	892.7	770.2	682.7	630.1	630.1	627.2
37.5°	1336.1	1272.0	1184.4	1070.7	951.0	816.9	708.9	630.1	574.7	571.8	574.7
40°	1277.8	1210.7	1126.1	1018.1	898.5	770.2	668.1	586.4	545.5	542.6	539.7
42.5°	1161.1	1108.6	1035.7	936.5	831.4	717.7	621.4	548.5	513.4	510.5	513.4
45°	986.1	948.1	898.5	825.6	738.1	641.8	557.2	501.8	466.8	466.8	466.8
47.5°	904.4	869.4	813.9	741.0	665.2	574.7	504.7	458.0	425.9	425.9	425.9
50°	884.0	840.2	767.3	685.6	603.9	525.1	460.9	414.3	390.9	388.0	390.9
52.5°	913.1	846.0	746.8	650.6	560.1	484.3	423.0	379.3	355.9	355.9	355.9
55°	1018.1	895.6	764.3	641.8	533.9	449.3	388.0	344.2	320.9	318.0	320.9
57.5°	1088.2	933.5	770.2	633.1	516.4	425.9	358.8	312.2	288.8	285.9	288.8
60°	1026.9	901.5	743.9	609.7	501.8	408.4	338.4	291.7	268.4	265.5	265.5
62.5°	851.9	778.9	665.2	551.4	463.9	382.2	318.0	274.2	250.9	248.0	250.9
65°	755.6	691.4	592.2	501.8	425.9	355.9	300.5	262.6	239.2	239.2	239.2
67.5°	703.1	644.7	551.4	463.9	393.8	329.7	277.1	242.1	221.7	221.7	221.7
70°	641.8	583.5	498.9	420.1	355.9	300.5	253.8	218.8	201.3	198.4	201.3
72.5°	589.3	531.0	452.2	379.3	320.9	271.3	230.5	198.4	183.8	180.9	183.8
75°	531.0	475.5	399.7	335.5	285.9	242.1	207.1	178.0	166.3	163.4	163.4
77.5°	481.4	428.8	358.8	300.5	256.7	215.9	183.8	163.4	151.7	148.8	148.8
80°	437.6	388.0	320.9	268.4	227.6	192.5	166.3	145.9	134.2	134.2	134.2
82.5°	390.9	347.2	285.9	236.3	201.3	172.1	145.9	128.4	119.6	119.6	119.6
85°	353.0	309.2	250.9	210.0	175.0	148.8	128.4	113.8	105.0	105.0	105.0
87.5°	312.2	274.2	221.7	183.8	154.6	131.3	110.9	96.3	93.4	90.4	90.4
90°	271.3	236.3	189.6	157.5	131.3	110.9	93.4	81.7	78.8	75.9	75.9
92.5°	242.1	210.0	172.1	142.9	119.6	99.2	87.5	75.9	72.9	72.9	70.0
95°	210.0	183.8	151.7	128.4	107.9	93.4	81.7	72.9	70.0	70.0	67.1
97.5°	180.9	157.5	134.2	116.7	99.2	87.5	75.9	70.0	64.2	64.2	64.2
100°	151.7	134.2	116.7	99.2	90.4	78.8	70.0	64.2	61.3	58.3	58.3
102.5°	122.5	110.9	96.3	87.5	75.9	67.1	61.3	55.4	52.5	52.5	52.5
105°	105.0	96.3	87.5	78.8	70.0	61.3	55.4	49.6	46.7	46.7	46.7
107.5°	96.3	90.4	81.7	72.9	67.1	58.3	52.5	43.8	40.8	43.8	43.8
110°	93.4	87.5	78.8	72.9	64.2	58.3	52.5	40.8	37.9	40.8	40.8



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	93.4	87.5	81.7	72.9	67.1	58.3	52.5	40.8	37.9	37.9	37.9
115°	96.3	93.4	84.6	78.8	70.0	61.3	52.5	40.8	37.9	37.9	37.9
117.5°	107.9	102.1	93.4	84.6	75.9	64.2	55.4	40.8	37.9	37.9	37.9
120°	119.6	113.8	105.0	93.4	81.7	70.0	58.3	40.8	35.0	37.9	37.9
122.5°	140.0	131.3	119.6	105.0	90.4	75.9	58.3	43.8	32.1	37.9	37.9
125°	166.3	154.6	137.1	116.7	99.2	81.7	61.3	43.8	35.0	37.9	37.9
127.5°	195.5	180.9	157.5	131.3	107.9	84.6	64.2	43.8	35.0	35.0	37.9
130°	233.4	210.0	178.0	145.9	116.7	90.4	64.2	43.8	35.0	35.0	35.0
132.5°	265.5	236.3	195.5	157.5	122.5	93.4	64.2	43.8	32.1	32.1	32.1
135°	297.6	259.6	210.0	166.3	128.4	93.4	64.2	40.8	32.1	32.1	32.1
137.5°	323.8	274.2	221.7	169.2	128.4	90.4	61.3	37.9	29.2	29.2	29.2
140°	338.4	283.0	224.6	169.2	122.5	87.5	55.4	35.0	26.3	26.3	26.3
142.5°	338.4	280.1	221.7	163.4	116.7	81.7	49.6	29.2	23.3	23.3	23.3
145°	326.7	268.4	210.0	154.6	107.9	72.9	43.8	26.3	17.5	17.5	20.4
147.5°	306.3	248.0	192.5	140.0	96.3	61.3	37.9	20.4	14.6	14.6	14.6
150°	271.3	218.8	166.3	122.5	81.7	52.5	32.1	17.5	11.7	11.7	11.7
152.5°	227.6	180.9	140.0	102.1	67.1	40.8	23.3	14.6	8.8	8.8	8.8
155°	180.9	142.9	110.9	78.8	49.6	32.1	17.5	11.7	8.8	8.8	8.8
157.5°	134.2	107.9	81.7	58.3	37.9	23.3	14.6	8.8	5.8	5.8	5.8
160°	93.4	75.9	55.4	37.9	23.3	14.6	8.8	5.8	2.9	2.9	2.9
162.5°	61.3	46.7	35.0	23.3	14.6	8.8	5.8	2.9	2.9	2.9	2.9
165°	29.2	23.3	17.5	11.7	5.8	5.8	2.9	2.9	0.0	0.0	0.0
167.5°	8.8	5.8	2.9	2.9	2.9	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)