

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: P690970

Luminaire Tested: **CRTK2-C01-D-U-T3-7050-RMARROA5**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P690970  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CRTK2-C01-D-U-T3-7050-RMARROA5  
Description: CARETAKER AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K LED WITH TYPE III OPTIC AND NEMA REFRACTOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7344 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')  
IES Classification: Type I - Short  
BUG Rating: B3 - U4 - G2

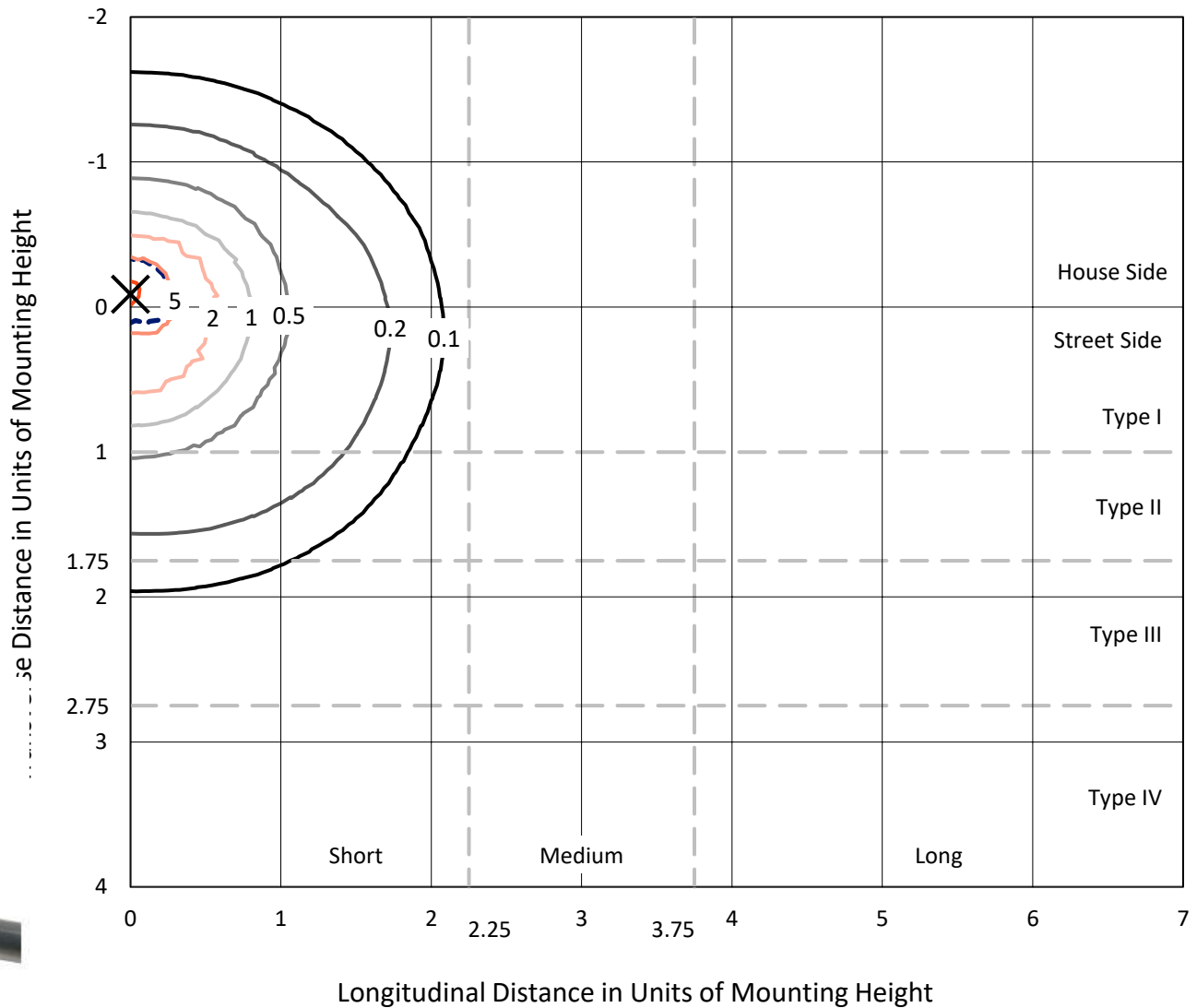
Input Watts (W): 61  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

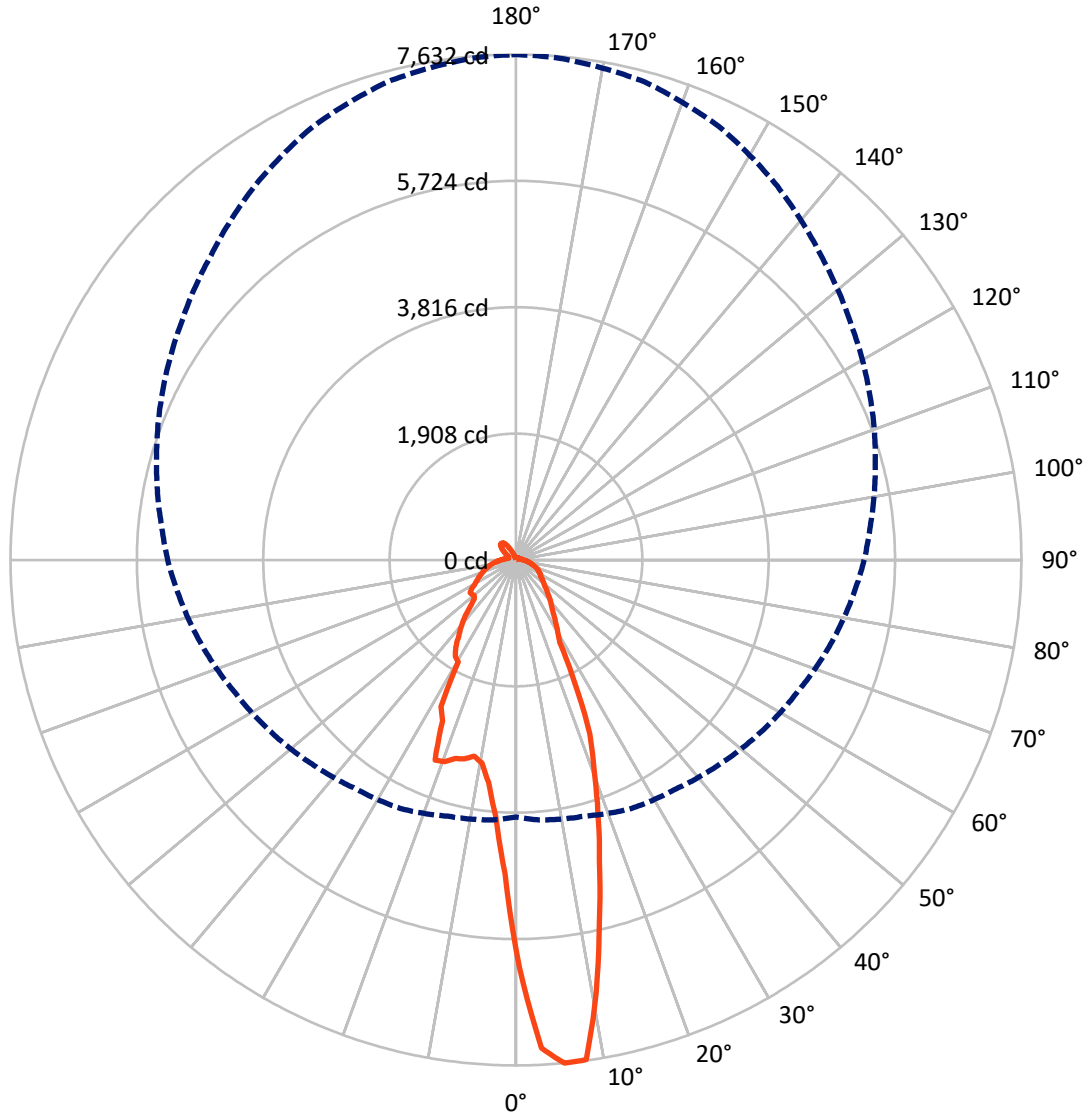
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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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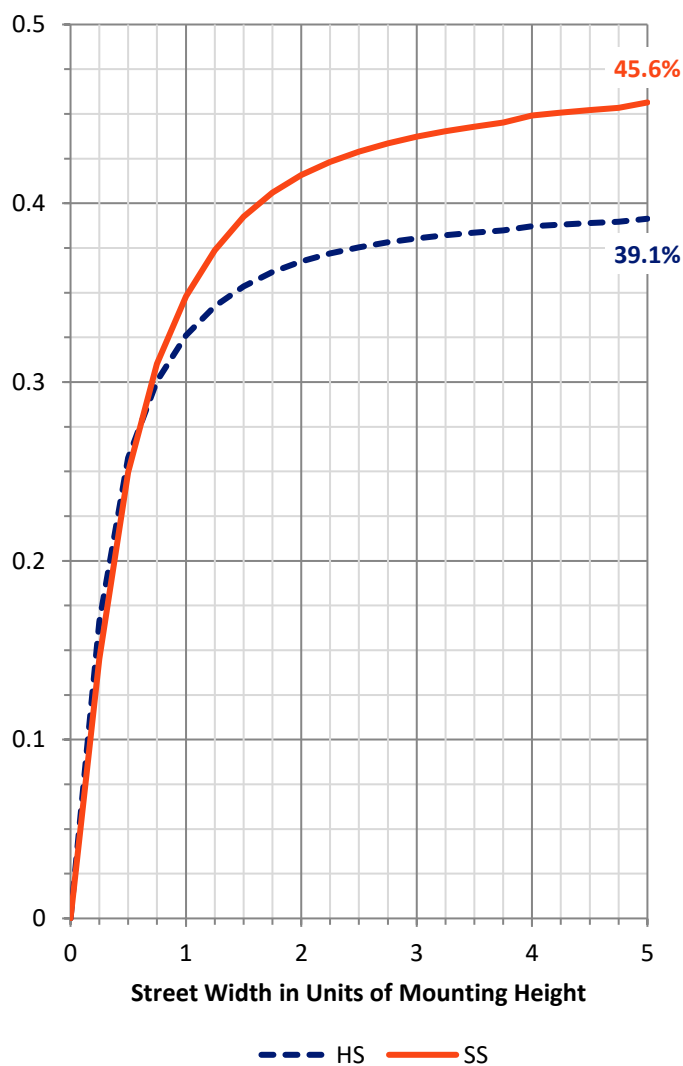
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2951.7	316.5	3268.2
	% Fixture	40.2	4.3	44.5
<b>Street Side</b>	Lumens	3444.6	631.3	4075.8
	% Fixture	46.9	8.6	55.5
<b>Total</b>	Lumens	6396.3	947.7	7344.0
	% Fixture	87.1	12.9	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	493.7	6.7
10°-20°	1058.7	14.4
20°-30°	1165.7	15.9
30°-40°	856.6	11.7
40°-50°	717.7	9.8
50°-60°	720.1	9.8
60°-70°	616.7	8.4
70°-80°	459.5	6.3
80°-90°	307.5	4.2
90°-100°	182.6	2.5
100°-110°	106.0	1.4
110°-120°	98.6	1.3
120°-130°	143.0	1.9
130°-140°	192.5	2.6
140°-150°	155.9	2.1
150°-160°	61.6	0.8
160°-170°	7.5	0.1
170°-180°	0.0	0.0
0°-90°	6396.3	87.1
0°-180°	7344.0	100.0

**Coefficient of Utilization**



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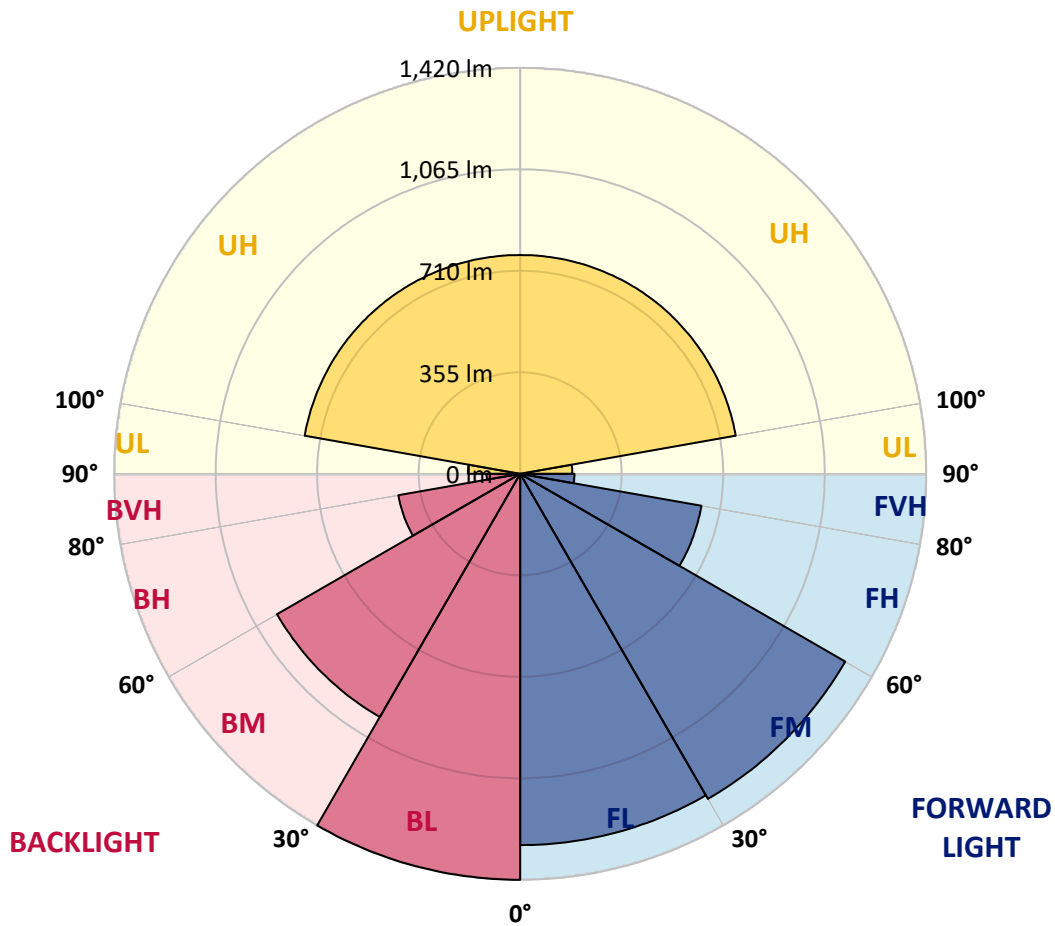
CATALOG NUMBER: CRTK2-C01-D-U-T3-7050-RMARROA5

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1298.5	17.7			
FM (30°-60°)	1312.7	17.9			
FH (60°-80°)	643.6	8.8			G0/660
FVH (80°-90°)	189.8	2.6			G2/225
BL (0°-30°)	1419.7	19.3	B3/2500		
BM (30°-60°)	981.8	13.4	B1/1000		
BH (60°-80°)	432.6	5.9	B1/500		G1/500
BVH (80°-90°)	117.7	1.6			G2/225
UL (90°-100°)	182.6	2.5		U3/500	
UH (100°-180°)	765.1	10.4		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°	6147.6	6147.6	6147.6	6147.6	6147.6	6147.6	6147.6	6147.6	6147.6	6147.6	6147.6
2.5°	4736.1	4806.1	4841.1	4946.1	4981.1	5048.2	5150.2	5252.3	5424.4	5552.7	5651.9
5°	3881.6	3940.0	4004.1	4138.3	4217.0	4357.0	4520.3	4695.3	4916.9	5141.5	5258.2
7.5°	3382.9	3397.5	3490.9	3654.2	3797.1	3945.8	4123.7	4275.3	4427.0	4610.7	4727.4
10°	3108.8	3129.2	3190.5	3315.9	3438.4	3560.8	3700.8	3817.5	3972.0	4126.6	4196.6
12.5°	3027.2	3035.9	3088.4	3161.3	3240.0	3318.8	3426.7	3531.7	3668.7	3802.9	3849.6
15°	3100.1	3100.1	3108.8	3138.0	3178.8	3240.0	3321.7	3412.1	3537.5	3636.7	3686.2
17.5°	3135.1	3138.0	3161.3	3167.1	3205.1	3231.3	3304.2	3374.2	3493.8	3575.4	3601.7
20°	3228.4	3228.4	3231.3	3245.9	3251.7	3266.3	3298.4	3336.3	3435.4	3479.2	3473.4
22.5°	3257.5	3245.9	3292.5	3377.1	3374.2	3377.1	3348.0	3356.7	3412.1	3394.6	3353.8
25°	2674.3	2659.7	2712.2	2764.7	2840.5	2936.7	3175.9	3362.5	3432.5	3377.1	3286.7
27.5°	2487.6	2423.5	2408.9	2283.5	2169.8	1983.1	1965.6	1849.0	1837.3	1910.2	1977.3
30°	1767.3	1770.2	1767.3	1755.6	1746.9	1755.6	1764.4	1744.0	1749.8	1796.5	1776.0
32.5°	1723.6	1723.6	1711.9	1706.1	1679.8	1671.1	1656.5	1618.6	1624.4	1659.4	1650.6
35°	1606.9	1601.1	1604.0	1589.4	1542.7	1504.8	1499.0	1466.9	1466.9	1487.3	1478.6
37.5°	1431.9	1423.2	1458.2	1455.3	1417.3	1402.8	1388.2	1367.8	1367.8	1385.3	1367.8
40°	1294.9	1289.0	1326.9	1338.6	1315.3	1321.1	1324.0	1306.5	1324.0	1326.9	1303.6
42.5°	1149.0	1146.1	1178.2	1175.3	1154.9	1152.0	1149.0	1137.4	1166.5	1189.9	1172.4
45°	977.0	968.2	991.6	1000.3	994.5	985.7	982.8	982.8	1000.3	1012.0	994.5
47.5°	863.2	866.2	883.6	904.1	909.9	915.7	912.8	907.0	918.6	921.6	907.0
50°	825.3	828.2	854.5	877.8	895.3	907.0	907.0	898.2	907.0	898.2	877.8
52.5°	842.8	842.8	877.8	912.8	942.0	962.4	965.3	953.6	953.6	930.3	898.2
55°	848.7	854.5	901.1	959.5	1012.0	1067.4	1093.6	1084.9	1093.6	1044.0	991.6
57.5°	793.2	807.8	854.5	924.5	994.5	1082.0	1137.4	1143.2	1140.3	1096.5	1032.4
60°	720.3	732.0	764.1	825.3	892.4	962.4	1017.8	1029.5	1041.1	1020.7	962.4
62.5°	670.8	676.6	702.8	746.6	793.2	831.2	851.6	848.7	860.3	854.5	810.7
65°	627.0	629.9	659.1	694.1	723.3	761.2	767.0	767.0	775.7	764.1	729.1
67.5°	580.4	580.4	603.7	635.8	670.8	702.8	711.6	714.5	726.2	714.5	688.3
70°	539.5	539.5	559.9	586.2	612.4	644.5	653.3	656.2	670.8	656.2	629.9
72.5°	501.6	501.6	519.1	542.4	565.8	592.0	600.8	603.7	615.3	600.8	580.4
75°	460.8	463.7	478.3	498.7	519.1	542.4	554.1	554.1	562.9	545.4	527.9
77.5°	420.0	422.9	437.5	454.9	472.4	495.8	501.6	504.5	513.3	495.8	478.3
80°	379.1	385.0	396.6	411.2	428.7	446.2	457.9	457.9	463.7	446.2	434.5
82.5°	341.2	347.0	355.8	367.5	385.0	402.5	414.1	414.1	417.0	402.5	387.9
85°	303.3	309.1	317.9	326.6	341.2	358.7	370.4	370.4	373.3	358.7	347.0
87.5°	268.3	274.1	280.0	288.7	300.4	317.9	329.5	329.5	329.5	317.9	306.2
90°	233.3	236.2	242.1	250.8	262.5	277.1	285.8	288.7	288.7	274.1	268.3
92.5°	207.1	207.1	212.9	218.7	230.4	242.1	250.8	253.7	253.7	245.0	236.2
95°	177.9	180.8	183.7	189.6	198.3	207.1	218.7	218.7	218.7	212.9	207.1
97.5°	157.5	154.6	157.5	160.4	169.1	175.0	183.7	186.6	186.6	180.8	177.9
100°	134.2	137.1	137.1	140.0	142.9	145.8	151.6	154.6	154.6	151.6	151.6
102.5°	125.4	122.5	122.5	122.5	122.5	122.5	125.4	125.4	128.3	125.4	122.5
105°	116.7	116.7	116.7	116.7	113.7	113.7	113.7	113.7	110.8	107.9	107.9
107.5°	113.7	113.7	113.7	113.7	110.8	110.8	107.9	107.9	105.0	102.1	99.2
110°	113.7	113.7	113.7	113.7	110.8	107.9	107.9	105.0	102.1	99.2	96.2



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 CATALOG NUMBER: CRTK2-C01-D-U-T3-7050-RMARROA5

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	119.6	119.6	119.6	119.6	113.7	110.8	107.9	107.9	102.1	99.2	96.2
115°	131.2	131.2	128.3	128.3	125.4	119.6	116.7	113.7	110.8	105.0	102.1
117.5°	142.9	142.9	142.9	142.9	140.0	134.2	128.3	125.4	122.5	113.7	110.8
120°	163.3	163.3	163.3	166.2	160.4	154.6	148.7	142.9	140.0	131.2	125.4
122.5°	189.6	186.6	192.5	195.4	192.5	183.7	175.0	169.1	163.3	151.6	145.8
125°	215.8	215.8	221.6	230.4	230.4	221.6	210.0	201.2	195.4	177.9	169.1
127.5°	247.9	247.9	256.6	271.2	274.1	265.4	253.7	242.1	233.3	210.0	201.2
130°	277.1	277.1	294.5	312.0	320.8	312.0	300.4	285.8	274.1	247.9	233.3
132.5°	300.4	303.3	323.7	347.0	358.7	355.8	341.2	329.5	317.9	285.8	268.3
135°	323.7	326.6	350.0	379.1	393.7	393.7	382.0	367.5	352.9	317.9	297.5
137.5°	335.4	338.3	367.5	396.6	414.1	420.0	414.1	399.5	385.0	347.0	320.8
140°	335.4	341.2	370.4	399.5	417.0	425.8	425.8	411.2	396.6	361.6	335.4
142.5°	326.6	332.5	358.7	387.9	405.4	417.0	420.0	408.3	393.7	358.7	332.5
145°	309.1	312.0	338.3	364.5	382.0	396.6	402.5	393.7	376.2	347.0	320.8
147.5°	280.0	280.0	303.3	323.7	347.0	361.6	370.4	364.5	350.0	323.7	300.4
150°	239.1	239.1	256.6	277.1	297.5	315.0	323.7	323.7	309.1	288.7	265.4
152.5°	189.6	192.5	204.1	221.6	242.1	256.6	268.3	268.3	259.6	242.1	221.6
155°	145.8	145.8	154.6	166.2	183.7	198.3	207.1	207.1	201.2	186.6	175.0
157.5°	105.0	105.0	110.8	122.5	134.2	145.8	154.6	154.6	148.7	140.0	131.2
160°	70.0	70.0	72.9	81.7	90.4	99.2	105.0	107.9	105.0	99.2	90.4
162.5°	37.9	37.9	40.8	46.7	52.5	61.2	64.2	67.1	67.1	61.2	58.3
165°	11.7	11.7	11.7	17.5	20.4	26.2	29.2	32.1	32.1	32.1	29.2
167.5°	2.9	2.9	2.9	2.9	2.9	2.9	5.8	8.7	8.7	8.7	8.7
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	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°	6147.6	6147.6	6147.6	6147.6	6147.6	6147.6	6147.6	6147.6	6147.6	6147.6	6147.6
2.5°	5745.2	5961.0	6200.1	6445.1	6695.9	6932.1	7130.4	7287.9	7372.5	7392.9	7381.2
5°	5363.1	5616.9	5896.8	6182.6	6509.3	6885.5	7229.6	7477.5	7605.8	7626.2	7632.0
7.5°	4817.8	5039.4	5313.6	5643.1	6054.3	6456.8	6987.5	7357.9	7565.0	7620.4	7620.4
10°	4243.3	4438.7	4610.7	4899.4	5258.2	5634.4	6086.4	6427.6	6637.6	6704.7	6646.3
12.5°	3919.6	4004.1	4120.8	4333.7	4558.2	4844.0	5234.8	5456.5	5593.5	5634.4	5599.4
15°	3712.5	3756.2	3805.8	3896.2	4053.7	4231.6	4462.0	4599.1	4683.6	4733.2	4715.7
17.5°	3613.3	3613.3	3604.6	3625.0	3665.8	3747.5	3905.0	3954.5	3992.5	4012.9	4001.2
20°	3461.7	3415.0	3377.1	3318.8	3295.5	3292.5	3330.5	3382.9	3380.0	3382.9	3359.6
22.5°	3310.0	3213.8	3120.5	3033.0	2933.8	2884.3	2849.3	2866.8	2852.2	2866.8	2852.2
25°	3237.1	3041.7	2855.1	2642.2	2464.3	2327.2	2236.8	2181.4	2088.1	2123.1	2091.0
27.5°	2009.4	1927.7	1849.0	1691.5	1542.7	1490.2	1446.5	1423.2	1405.7	1414.4	1408.6
30°	1741.1	1674.0	1612.7	1531.1	1417.3	1347.3	1294.9	1248.2	1233.6	1236.5	1233.6
32.5°	1615.6	1563.2	1487.3	1402.8	1300.7	1213.2	1152.0	1108.2	1084.9	1099.5	1087.8
35°	1446.5	1394.0	1329.8	1251.1	1163.6	1084.9	1026.5	985.7	959.5	965.3	962.4
37.5°	1335.7	1286.1	1230.7	1146.1	1070.3	994.5	936.1	895.3	869.1	874.9	869.1
40°	1271.5	1216.1	1157.8	1082.0	1006.1	927.4	872.0	825.3	799.1	799.1	799.1
42.5°	1140.3	1096.5	1047.0	968.2	901.1	834.1	778.7	743.7	714.5	717.4	711.6
45°	974.1	942.0	904.1	851.6	796.2	743.7	697.0	670.8	647.4	650.3	647.4
47.5°	889.5	860.3	816.6	775.7	726.2	679.5	638.7	606.6	589.1	592.0	586.2
50°	857.4	822.4	772.8	717.4	670.8	624.1	583.3	559.9	542.4	545.4	542.4
52.5°	869.1	813.7	743.7	676.6	621.2	574.5	542.4	516.2	504.5	507.4	501.6
55°	944.9	848.7	743.7	659.1	589.1	536.6	504.5	475.4	463.7	463.7	463.7
57.5°	971.1	866.2	734.9	638.7	562.9	510.4	472.4	443.3	431.6	431.6	431.6
60°	909.9	819.5	699.9	609.5	539.5	489.9	457.9	437.5	428.7	428.7	428.7
62.5°	778.7	720.3	629.9	557.0	504.5	460.8	428.7	402.5	393.7	390.8	390.8
65°	705.8	650.3	574.5	513.3	466.6	431.6	402.5	382.0	370.4	370.4	370.4
67.5°	659.1	606.6	536.6	478.3	434.5	396.6	370.4	350.0	344.1	341.2	341.2
70°	606.6	557.0	487.0	434.5	393.7	361.6	335.4	317.9	312.0	312.0	309.1
72.5°	554.1	507.4	440.4	390.8	352.9	323.7	300.4	285.8	280.0	277.1	277.1
75°	504.5	457.9	396.6	350.0	315.0	288.7	268.3	253.7	247.9	247.9	247.9
77.5°	457.9	414.1	355.8	312.0	282.9	256.6	239.1	227.5	221.6	221.6	221.6
80°	414.1	370.4	317.9	277.1	247.9	227.5	212.9	201.2	195.4	198.3	195.4
82.5°	367.5	332.5	282.9	245.0	221.6	201.2	186.6	177.9	172.1	175.0	172.1
85°	329.5	294.5	247.9	215.8	192.5	175.0	163.3	154.6	148.7	151.6	148.7
87.5°	291.6	259.6	218.7	189.6	169.1	154.6	140.0	134.2	131.2	131.2	128.3
90°	250.8	221.6	186.6	163.3	142.9	131.2	119.6	113.7	110.8	107.9	107.9
92.5°	221.6	198.3	166.2	145.8	128.3	119.6	107.9	102.1	99.2	99.2	99.2
95°	195.4	175.0	148.7	131.2	119.6	107.9	99.2	96.2	93.3	93.3	90.4
97.5°	169.1	151.6	134.2	119.6	107.9	99.2	90.4	87.5	84.6	84.6	84.6
100°	142.9	131.2	116.7	105.0	96.2	90.4	81.7	78.7	75.8	75.8	75.8
102.5°	119.6	110.8	99.2	90.4	84.6	78.7	72.9	70.0	67.1	67.1	67.1
105°	105.0	96.2	90.4	81.7	75.8	70.0	67.1	61.2	58.3	58.3	58.3
107.5°	96.2	90.4	84.6	78.7	72.9	67.1	61.2	55.4	52.5	52.5	52.5
110°	93.3	87.5	81.7	75.8	70.0	64.2	61.2	52.5	49.6	49.6	49.6



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	93.3	90.4	84.6	78.7	72.9	67.1	61.2	49.6	46.7	46.7	46.7
115°	99.2	93.3	87.5	81.7	75.8	70.0	64.2	49.6	46.7	46.7	46.7
117.5°	107.9	102.1	93.3	87.5	81.7	72.9	64.2	52.5	46.7	46.7	46.7
120°	122.5	113.7	105.0	96.2	87.5	78.7	67.1	52.5	43.7	46.7	46.7
122.5°	140.0	131.2	116.7	105.0	96.2	84.6	70.0	55.4	43.7	46.7	46.7
125°	163.3	151.6	134.2	119.6	105.0	90.4	72.9	55.4	43.7	46.7	49.6
127.5°	189.6	172.1	151.6	131.2	113.7	96.2	78.7	58.3	43.7	49.6	49.6
130°	218.7	198.3	172.1	145.8	125.4	102.1	81.7	58.3	46.7	46.7	46.7
132.5°	250.8	221.6	186.6	157.5	131.2	105.0	81.7	58.3	46.7	46.7	46.7
135°	274.1	239.1	201.2	166.2	137.1	107.9	84.6	58.3	43.7	43.7	43.7
137.5°	294.5	253.7	212.9	172.1	140.0	107.9	81.7	55.4	43.7	40.8	40.8
140°	306.2	259.6	212.9	172.1	137.1	105.0	75.8	52.5	37.9	37.9	37.9
142.5°	306.2	256.6	210.0	166.2	128.3	99.2	72.9	46.7	35.0	35.0	35.0
145°	294.5	245.0	198.3	157.5	119.6	90.4	64.2	43.7	32.1	32.1	32.1
147.5°	274.1	224.6	180.8	142.9	105.0	78.7	55.4	35.0	26.2	26.2	26.2
150°	245.0	198.3	157.5	122.5	90.4	64.2	46.7	29.2	20.4	20.4	20.4
152.5°	204.1	166.2	128.3	102.1	72.9	52.5	35.0	23.3	17.5	17.5	17.5
155°	160.4	131.2	102.1	78.7	55.4	37.9	26.2	17.5	11.7	11.7	11.7
157.5°	122.5	99.2	75.8	58.3	40.8	29.2	20.4	11.7	8.7	8.7	8.7
160°	84.6	67.1	52.5	40.8	26.2	20.4	14.6	8.7	5.8	5.8	5.8
162.5°	55.4	43.7	32.1	23.3	17.5	11.7	8.7	5.8	2.9	2.9	2.9
165°	26.2	20.4	17.5	11.7	8.7	5.8	2.9	2.9	0.0	0.0	0.0
167.5°	8.7	5.8	5.8	2.9	2.9	2.9	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)