

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: P691889

Luminaire Tested: **CRTK2-C01H-D-U-T3-7050-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691889  
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-C01H-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**

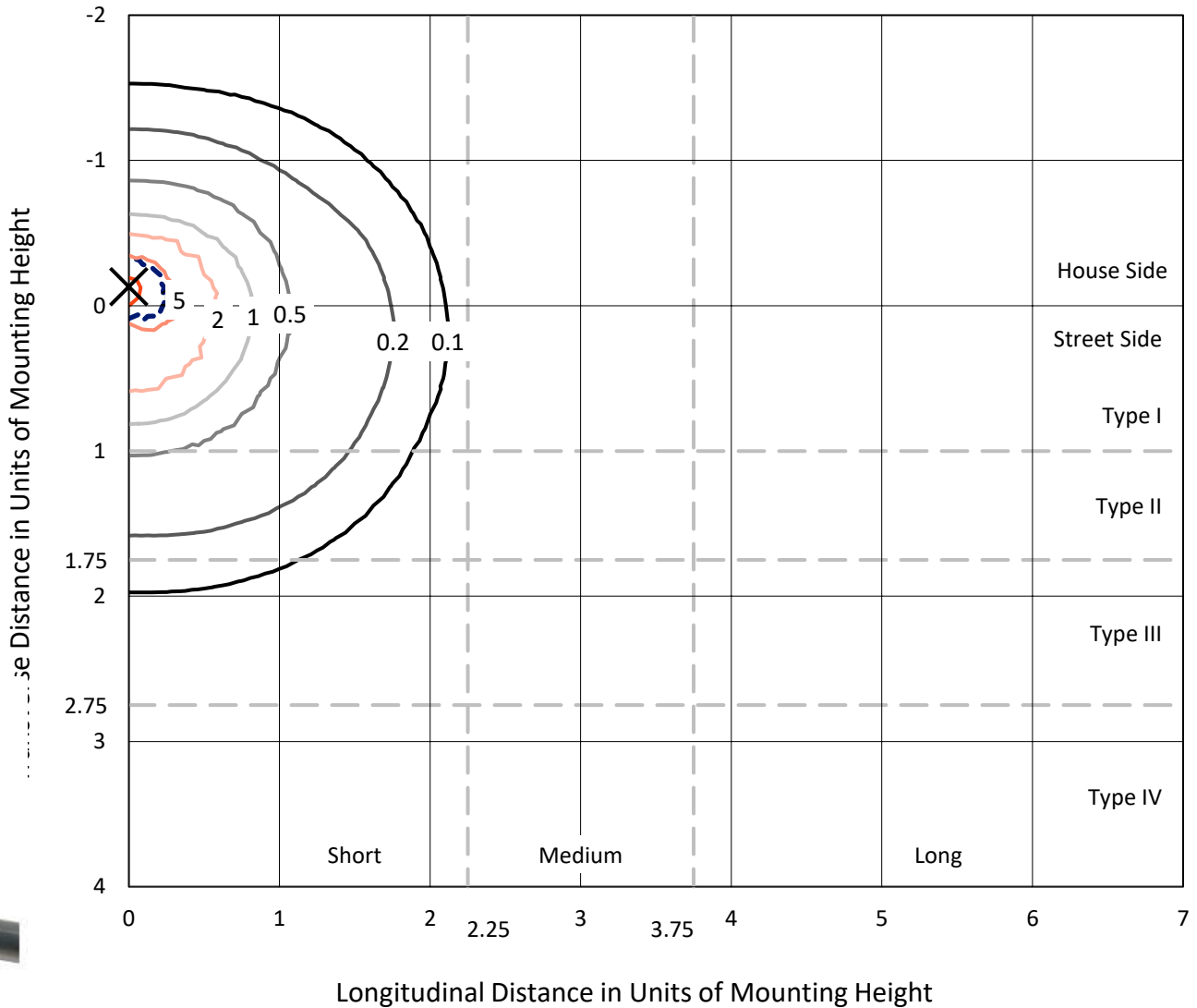
Lumens per Lamp: N/A  
Luminaire Lumens: 7487 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')  
IES Classification: Type I - Short  
BUG Rating: B3 - U4 - G2  
  
Input Watts (W): 70.2  
Input Voltage (V): NR  
Input Current (Ain): 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

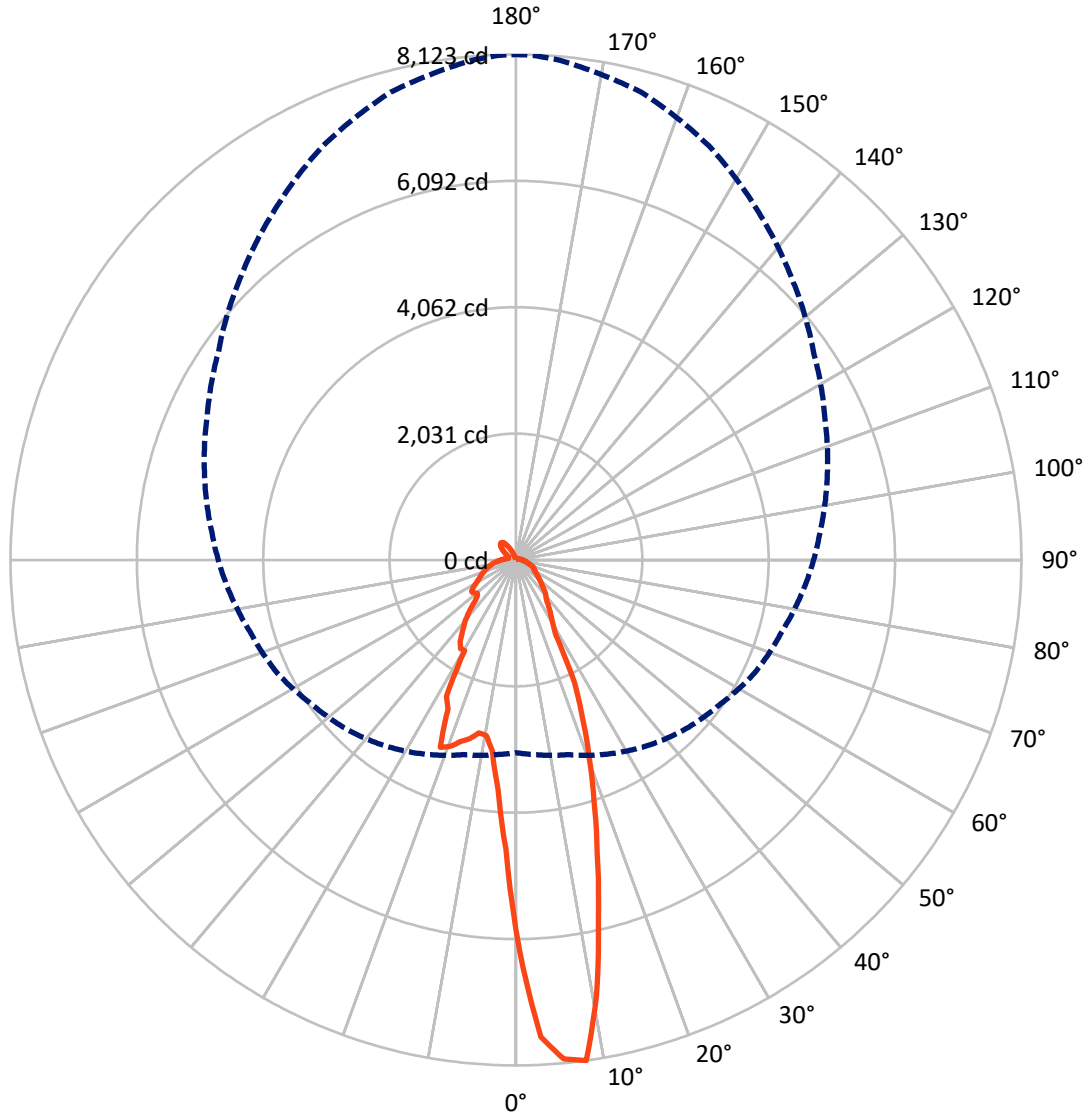
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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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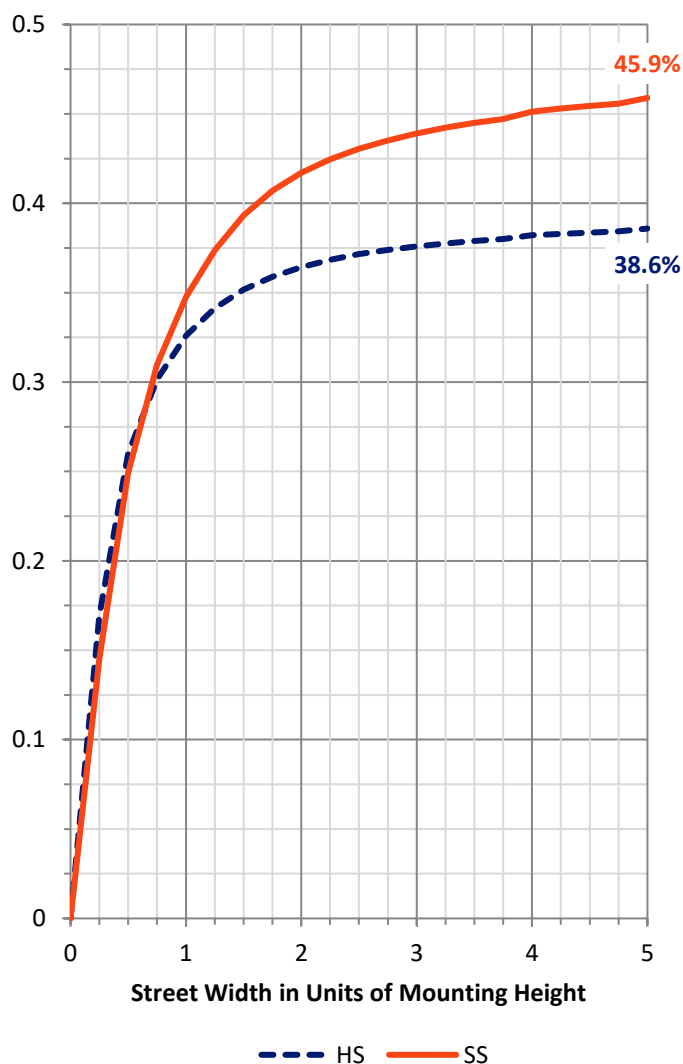
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2964.2	309.1	3273.4
	% Fixture	39.6	4.1	43.7
<b>Street Side</b>	Lumens	3534.8	678.8	4213.6
	% Fixture	47.2	9.1	56.3
<b>Total</b>	Lumens	6499.0	988.0	7487.0
	% Fixture	86.8	13.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	501.6	6.7
10°-20°	1073.1	14.3
20°-30°	1185.0	15.8
30°-40°	859.4	11.5
40°-50°	724.1	9.7
50°-60°	739.2	9.9
60°-70°	630.0	8.4
70°-80°	469.7	6.3
80°-90°	317.0	4.2
90°-100°	189.5	2.5
100°-110°	109.0	1.5
110°-120°	101.9	1.4
120°-130°	148.4	2.0
130°-140°	201.7	2.7
140°-150°	164.1	2.2
150°-160°	65.5	0.9
160°-170°	8.0	0.1
170°-180°	0.0	0.0
0°-90°	6499.0	86.8
0°-180°	7487.0	100.0

**Coefficient of Utilization**



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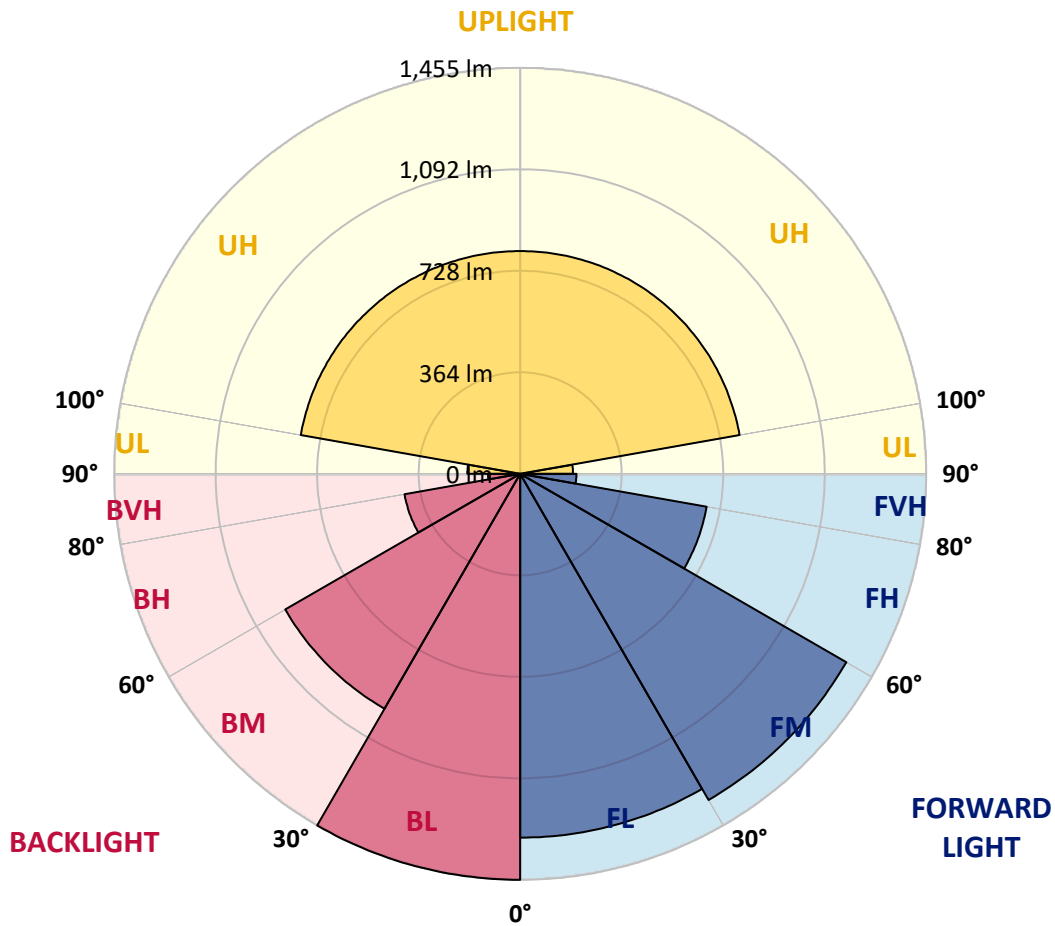
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1304.2	17.4			
FM (30°-60°)	1350.2	18.0			
FH (60°-80°)	678.7	9.1			G1/1800
FVH (80°-90°)	201.7	2.7			G2/225
BL (0°-30°)	1455.4	19.4	B3/2500		
BM (30°-60°)	972.5	13.0	B1/1000		
BH (60°-80°)	421.0	5.6	B1/500		G1/500
BVH (80°-90°)	115.3	1.5			G2/225
UL (90°-100°)	189.5	2.5		U3/500	
UH (100°-180°)	798.5	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°	6260.6	6260.6	6260.6	6260.6	6260.6	6260.6	6260.6	6260.6	6260.6	6260.6	6260.6
2.5°	4646.4	4754.2	4764.0	4881.7	4969.9	5051.6	5110.4	5280.3	5453.5	5616.9	5711.6
5°	3689.0	3741.3	3836.1	3963.5	4126.9	4254.3	4437.3	4675.8	4904.5	5192.1	5332.6
7.5°	3097.6	3136.8	3238.1	3444.0	3649.8	3845.9	4022.3	4251.0	4427.5	4666.0	4783.7
10°	2862.3	2885.2	2970.2	3113.9	3310.0	3473.4	3626.9	3800.1	3957.0	4175.9	4260.8
12.5°	2839.5	2849.3	2917.9	3019.2	3133.6	3267.5	3395.0	3542.0	3708.6	3881.8	3947.2
15°	2963.6	2957.1	2980.0	3038.8	3104.1	3208.7	3326.3	3460.3	3620.4	3747.8	3800.1
17.5°	3051.9	3048.6	3091.1	3117.2	3179.3	3241.4	3359.0	3463.6	3620.4	3721.7	3751.1
20°	3179.3	3185.8	3198.9	3247.9	3274.1	3316.5	3388.4	3450.5	3584.5	3643.3	3636.8
22.5°	3247.9	3244.6	3300.2	3414.6	3444.0	3466.8	3479.9	3506.1	3581.2	3577.9	3528.9
25°	2633.6	2640.2	2653.2	2751.3	2875.4	3078.0	3244.6	3506.1	3646.6	3594.3	3489.7
27.5°	2460.4	2440.8	2372.2	2316.7	2150.0	2038.9	1934.4	1888.6	1911.5	1950.7	2058.5
30°	1676.2	1679.5	1686.0	1695.8	1712.2	1754.7	1784.1	1787.3	1810.2	1875.6	1852.7
32.5°	1679.5	1682.8	1673.0	1682.8	1676.2	1692.6	1689.3	1676.2	1695.8	1754.7	1731.8
35°	1578.2	1571.7	1578.2	1581.5	1545.5	1532.5	1529.2	1519.4	1532.5	1561.9	1542.3
37.5°	1421.4	1418.1	1447.5	1463.8	1434.4	1434.4	1427.9	1414.8	1424.6	1450.8	1424.6
40°	1284.1	1287.4	1329.9	1356.0	1346.2	1356.0	1365.8	1362.6	1385.4	1395.2	1362.6
42.5°	1133.8	1127.3	1169.8	1189.4	1169.8	1176.3	1173.0	1176.3	1222.1	1241.7	1218.8
45°	947.6	957.4	977.0	1003.1	999.9	1009.7	1006.4	1012.9	1042.3	1052.1	1035.8
47.5°	843.0	849.6	872.4	901.8	918.2	934.5	934.5	937.8	957.4	960.7	944.3
50°	820.1	826.7	856.1	888.8	914.9	934.5	944.3	941.0	950.8	944.3	921.4
52.5°	859.4	859.4	905.1	944.3	977.0	1012.9	1026.0	1012.9	1012.9	986.8	950.8
55°	875.7	879.0	934.5	1003.1	1065.2	1130.6	1173.0	1169.8	1166.5	1124.0	1058.7
57.5°	823.4	833.2	888.8	967.2	1052.1	1156.7	1218.8	1228.6	1228.6	1173.0	1101.2
60°	748.3	754.8	797.3	862.6	947.6	1026.0	1091.4	1097.9	1117.5	1088.1	1022.7
62.5°	686.2	692.7	728.7	777.7	839.8	888.8	908.4	908.4	918.2	908.4	862.6
65°	640.4	643.7	673.1	715.6	758.1	797.3	816.9	810.3	823.4	810.3	774.4
67.5°	598.0	598.0	624.1	656.8	696.0	741.7	754.8	761.3	774.4	758.1	725.4
70°	555.5	558.7	584.9	611.0	647.0	679.6	692.7	696.0	712.3	692.7	669.8
72.5°	519.5	519.5	542.4	568.5	594.7	627.4	637.2	643.7	653.5	633.9	614.3
75°	477.1	480.3	499.9	522.8	545.7	578.4	588.2	591.4	601.2	578.4	558.7
77.5°	437.8	441.1	457.5	477.1	499.9	526.1	535.9	542.4	545.7	526.1	506.5
80°	398.6	401.9	415.0	434.6	454.2	480.3	486.9	490.1	496.7	473.8	460.7
82.5°	362.7	362.7	372.5	388.8	408.4	431.3	441.1	444.4	447.7	428.0	415.0
85°	320.2	320.2	330.0	346.4	362.7	385.6	395.4	398.6	398.6	382.3	369.2
87.5°	284.3	284.3	290.8	303.9	316.9	339.8	349.6	356.2	352.9	339.8	326.8
90°	248.3	248.3	254.9	264.7	277.7	297.3	307.1	310.4	310.4	294.1	284.3
92.5°	215.7	215.7	222.2	232.0	241.8	258.1	267.9	274.5	274.5	261.4	251.6
95°	186.2	186.2	189.5	199.3	209.1	222.2	228.7	235.3	235.3	228.7	218.9
97.5°	160.1	160.1	163.4	169.9	176.4	186.2	192.8	199.3	199.3	196.1	189.5
100°	140.5	140.5	140.5	143.8	150.3	153.6	160.1	166.6	166.6	163.4	160.1
102.5°	127.4	127.4	127.4	127.4	127.4	130.7	130.7	134.0	134.0	134.0	130.7
105°	120.9	120.9	120.9	120.9	120.9	120.9	120.9	120.9	117.6	114.4	111.1
107.5°	120.9	117.6	117.6	117.6	117.6	114.4	114.4	114.4	111.1	107.8	104.6
110°	120.9	120.9	120.9	120.9	117.6	114.4	114.4	111.1	107.8	104.6	101.3



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CATALOG NUMBER: CRTK2-C01H-D-U-T3-7050-RMARROA5-HSS-CRTK2

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	127.4	127.4	127.4	124.2	120.9	120.9	117.6	114.4	111.1	104.6	101.3
115°	137.2	137.2	137.2	137.2	134.0	127.4	124.2	120.9	114.4	111.1	107.8
117.5°	153.6	153.6	153.6	153.6	147.0	143.8	137.2	134.0	127.4	120.9	117.6
120°	173.2	173.2	176.4	176.4	173.2	166.6	156.8	153.6	147.0	137.2	130.7
122.5°	202.6	199.3	205.9	205.9	205.9	199.3	186.2	179.7	173.2	160.1	153.6
125°	232.0	232.0	238.5	245.1	248.3	238.5	225.5	215.7	205.9	189.5	179.7
127.5°	264.7	264.7	277.7	290.8	297.3	287.5	271.2	261.4	248.3	225.5	212.4
130°	297.3	297.3	316.9	336.6	346.4	339.8	323.5	310.4	294.1	264.7	248.3
132.5°	326.8	326.8	349.6	375.8	388.8	385.6	369.2	356.2	343.1	307.1	284.3
135°	349.6	352.9	382.3	411.7	428.0	431.3	415.0	398.6	382.3	343.1	316.9
137.5°	362.7	369.2	398.6	434.6	450.9	460.7	450.9	434.6	415.0	372.5	343.1
140°	366.0	369.2	401.9	437.8	454.2	467.3	467.3	447.7	431.3	388.8	356.2
142.5°	356.2	359.4	392.1	424.8	441.1	457.5	460.7	444.4	428.0	388.8	356.2
145°	333.3	339.8	369.2	395.4	418.2	434.6	441.1	431.3	411.7	375.8	346.4
147.5°	303.9	307.1	333.3	356.2	379.0	398.6	408.4	398.6	382.3	349.6	323.5
150°	258.1	261.4	281.0	300.6	326.8	346.4	359.4	352.9	339.8	313.7	287.5
152.5°	209.1	209.1	225.5	241.8	264.7	284.3	297.3	294.1	284.3	261.4	241.8
155°	160.1	160.1	169.9	183.0	202.6	215.7	228.7	228.7	222.2	205.9	189.5
157.5°	114.4	114.4	124.2	134.0	147.0	160.1	169.9	169.9	166.6	153.6	143.8
160°	75.2	75.2	81.7	88.2	101.3	107.8	117.6	117.6	114.4	107.8	101.3
162.5°	39.2	39.2	45.7	49.0	58.8	65.4	71.9	75.2	75.2	68.6	65.4
165°	13.1	13.1	13.1	16.3	22.9	29.4	32.7	35.9	35.9	32.7	32.7
167.5°	3.3	3.3	3.3	3.3	3.3	3.3	6.5	9.8	9.8	9.8	9.8
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°	178°	180°
0°	6260.6	6260.6	6260.6	6260.6	6260.6	6260.6	6260.6	6260.6	6260.6	6260.6	6260.6
2.5°	5812.9	6110.3	6365.1	6633.1	6930.4	7182.0	7436.9	7577.4	7698.3	7675.4	7675.4
5°	5469.8	5767.2	6077.6	6404.3	6806.2	7218.0	7610.1	7891.1	8038.1	8061.0	8057.7
7.5°	4901.3	5179.0	5473.1	5835.8	6306.3	6809.5	7342.1	7783.2	8061.0	8113.3	8123.1
10°	4339.3	4548.4	4796.7	5045.1	5466.6	5927.3	6404.3	6757.2	7028.4	7067.6	7113.4
12.5°	4002.7	4117.1	4277.2	4450.4	4724.8	5061.4	5453.5	5656.1	5829.3	5848.9	5891.3
15°	3829.5	3885.1	3924.3	3986.4	4149.8	4358.9	4538.6	4737.9	4809.8	4858.8	4881.7
17.5°	3760.9	3754.4	3715.2	3715.2	3728.2	3806.7	3921.0	3989.6	4035.4	4058.3	4064.8
20°	3620.4	3561.6	3483.2	3378.6	3323.1	3296.9	3326.3	3342.7	3329.6	3313.3	3342.7
22.5°	3473.4	3349.2	3208.7	3087.8	2944.0	2855.8	2770.9	2741.5	2705.5	2728.4	2728.4
25°	3427.6	3208.7	2983.2	2780.7	2565.0	2418.0	2261.1	2205.6	2150.0	2195.8	2195.8
27.5°	2025.9	2025.9	1898.4	1728.5	1542.3	1463.8	1401.8	1365.8	1343.0	1352.8	1352.8
30°	1813.5	1728.5	1650.1	1542.3	1398.5	1303.7	1222.1	1173.0	1150.2	1143.6	1150.2
32.5°	1682.8	1617.4	1522.7	1414.8	1287.4	1182.8	1091.4	1042.3	1006.4	1012.9	1016.2
35°	1506.3	1437.7	1356.0	1254.7	1146.9	1048.9	967.2	918.2	885.5	885.5	888.8
37.5°	1395.2	1326.6	1248.2	1156.7	1052.1	957.4	882.2	823.4	794.0	790.7	790.7
40°	1326.6	1258.0	1186.1	1094.6	996.6	898.6	823.4	771.1	735.2	735.2	738.5
42.5°	1202.4	1137.1	1075.0	993.3	905.1	820.1	748.3	702.5	666.6	660.0	666.6
45°	1012.9	977.0	928.0	872.4	797.3	728.7	663.3	624.1	594.7	594.7	591.4
47.5°	928.0	892.0	839.8	784.2	722.1	653.5	601.2	565.3	539.1	539.1	539.1
50°	895.3	856.1	790.7	728.7	656.8	598.0	552.2	516.3	496.7	496.7	493.4
52.5°	911.6	849.6	764.6	676.4	607.8	548.9	503.2	467.3	450.9	450.9	447.7
55°	999.9	888.8	764.6	656.8	575.1	509.7	464.0	424.8	408.4	408.4	408.4
57.5°	1035.8	911.6	758.1	637.2	545.7	477.1	421.5	385.6	369.2	369.2	366.0
60°	970.5	865.9	725.4	611.0	522.8	454.2	401.9	366.0	346.4	346.4	343.1
62.5°	826.7	751.5	643.7	558.7	490.1	428.0	382.3	346.4	330.0	330.0	330.0
65°	741.7	676.4	591.4	516.3	454.2	401.9	359.4	330.0	313.7	313.7	313.7
67.5°	692.7	637.2	552.2	480.3	418.2	369.2	330.0	303.9	290.8	287.5	290.8
70°	640.4	581.6	503.2	434.6	379.0	333.3	297.3	271.2	258.1	258.1	258.1
72.5°	584.9	529.3	454.2	392.1	336.6	300.6	264.7	241.8	228.7	228.7	225.5
75°	532.6	477.1	405.2	346.4	300.6	264.7	235.3	215.7	202.6	202.6	202.6
77.5°	483.6	431.3	362.7	310.4	267.9	238.5	209.1	192.8	183.0	183.0	179.7
80°	437.8	388.8	323.5	277.7	238.5	212.4	186.2	173.2	163.4	163.4	163.4
82.5°	392.1	346.4	287.5	245.1	212.4	186.2	166.6	153.6	147.0	143.8	147.0
85°	349.6	307.1	254.9	215.7	186.2	163.4	147.0	134.0	127.4	127.4	127.4
87.5°	310.4	271.2	225.5	189.5	163.4	143.8	127.4	117.6	114.4	111.1	111.1
90°	267.9	232.0	192.8	163.4	140.5	124.2	107.8	101.3	94.8	94.8	94.8
92.5°	238.5	209.1	173.2	147.0	127.4	114.4	101.3	94.8	88.2	88.2	88.2
95°	209.1	183.0	153.6	134.0	117.6	104.6	94.8	88.2	85.0	85.0	85.0
97.5°	179.7	160.1	137.2	120.9	107.8	98.0	88.2	81.7	78.4	78.4	78.4
100°	150.3	137.2	120.9	107.8	98.0	88.2	78.4	75.2	71.9	71.9	71.9
102.5°	124.2	114.4	101.3	91.5	81.7	75.2	68.6	65.4	62.1	62.1	62.1
105°	107.8	101.3	91.5	81.7	75.2	68.6	62.1	55.5	55.5	55.5	55.5
107.5°	101.3	91.5	85.0	78.4	71.9	62.1	58.8	52.3	49.0	49.0	49.0
110°	98.0	91.5	85.0	75.2	68.6	62.1	55.5	49.0	45.7	45.7	45.7



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	98.0	91.5	85.0	78.4	71.9	62.1	58.8	45.7	42.5	42.5	42.5
115°	104.6	98.0	88.2	81.7	71.9	65.4	58.8	45.7	42.5	42.5	42.5
117.5°	111.1	104.6	94.8	88.2	78.4	68.6	58.8	45.7	42.5	42.5	42.5
120°	127.4	117.6	104.6	94.8	85.0	71.9	62.1	45.7	39.2	42.5	42.5
122.5°	143.8	134.0	117.6	104.6	91.5	78.4	62.1	45.7	39.2	42.5	42.5
125°	169.9	153.6	134.0	117.6	98.0	81.7	65.4	45.7	35.9	39.2	42.5
127.5°	199.3	179.7	153.6	130.7	107.8	85.0	65.4	45.7	35.9	39.2	39.2
130°	232.0	205.9	173.2	140.5	114.4	88.2	65.4	45.7	35.9	39.2	39.2
132.5°	264.7	228.7	189.5	153.6	120.9	91.5	65.4	42.5	35.9	35.9	35.9
135°	290.8	248.3	202.6	160.1	124.2	91.5	62.1	42.5	32.7	32.7	32.7
137.5°	313.7	264.7	212.4	163.4	124.2	88.2	58.8	39.2	29.4	29.4	29.4
140°	326.8	271.2	215.7	160.1	117.6	85.0	55.5	35.9	26.1	26.1	26.1
142.5°	326.8	267.9	209.1	156.8	111.1	78.4	49.0	29.4	22.9	22.9	22.9
145°	313.7	254.9	199.3	147.0	101.3	68.6	42.5	26.1	19.6	19.6	19.6
147.5°	294.1	235.3	183.0	134.0	91.5	58.8	35.9	22.9	16.3	16.3	16.3
150°	261.4	209.1	160.1	114.4	78.4	49.0	29.4	19.6	13.1	13.1	13.1
152.5°	218.9	173.2	134.0	94.8	65.4	39.2	26.1	13.1	9.8	9.8	9.8
155°	173.2	137.2	104.6	75.2	49.0	29.4	19.6	13.1	6.5	6.5	6.5
157.5°	130.7	101.3	78.4	55.5	35.9	22.9	13.1	9.8	6.5	6.5	6.5
160°	91.5	71.9	52.3	35.9	22.9	16.3	9.8	6.5	3.3	3.3	3.3
162.5°	58.8	45.7	32.7	22.9	13.1	9.8	6.5	3.3	3.3	3.3	0.0
165°	29.4	22.9	16.3	9.8	6.5	3.3	3.3	3.3	0.0	0.0	0.0
167.5°	6.5	6.5	6.5	3.3	3.3	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)