

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: P691765

Luminaire Tested: **CRTK2-C01H-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691765
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-C01H-5TLD-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: 7598 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B3 - U4 - G2

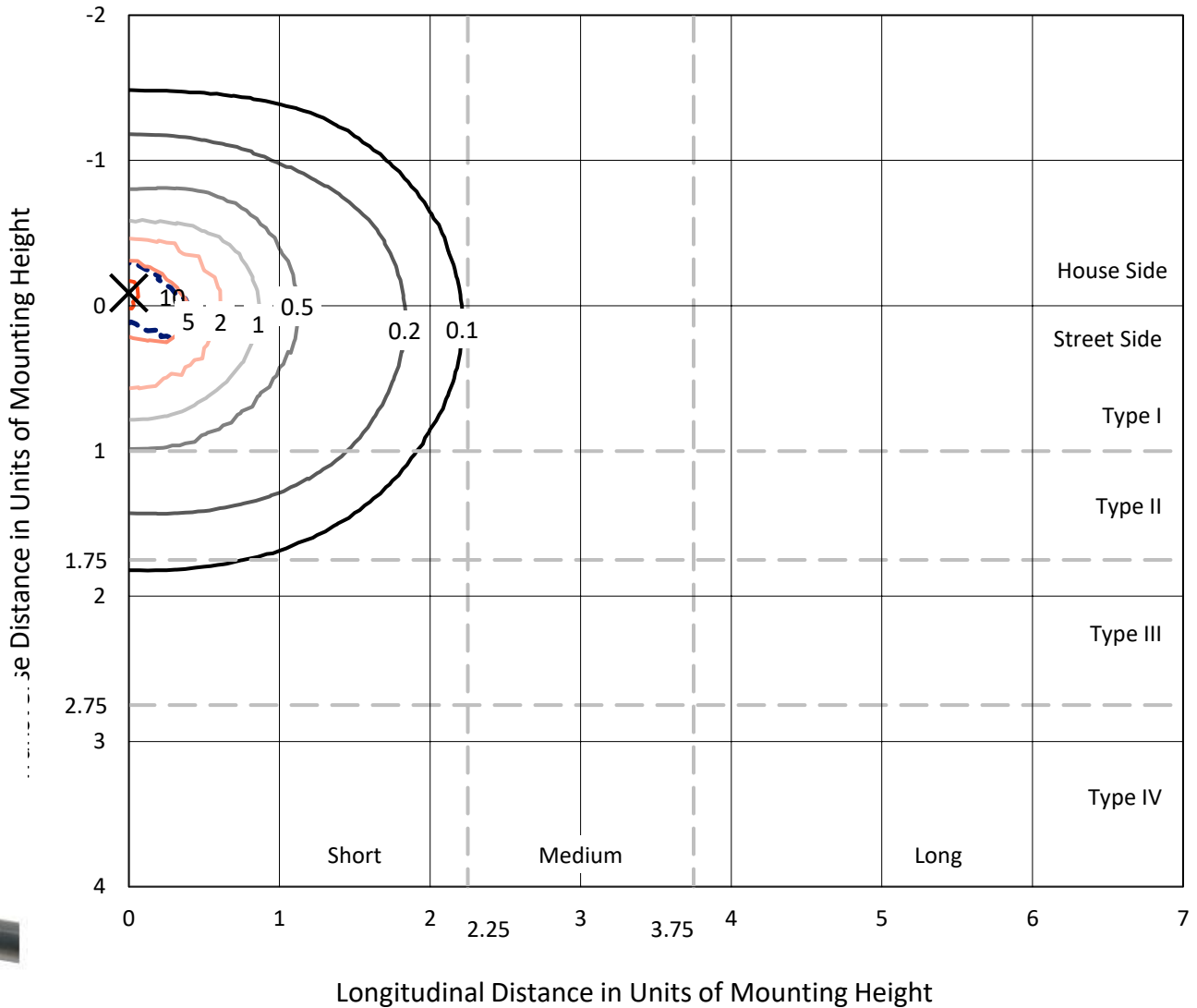
Input Watts (W): 74.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

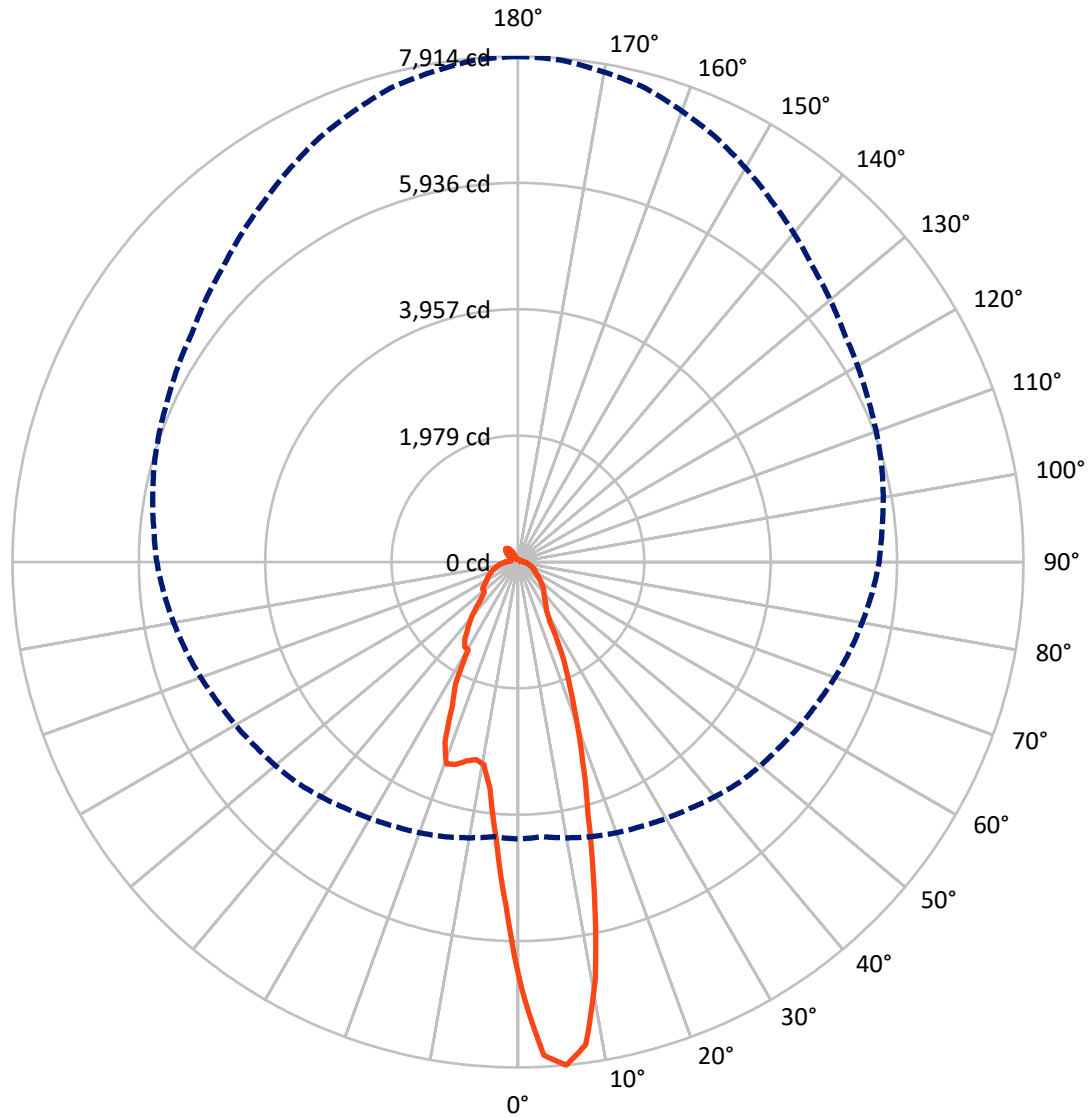
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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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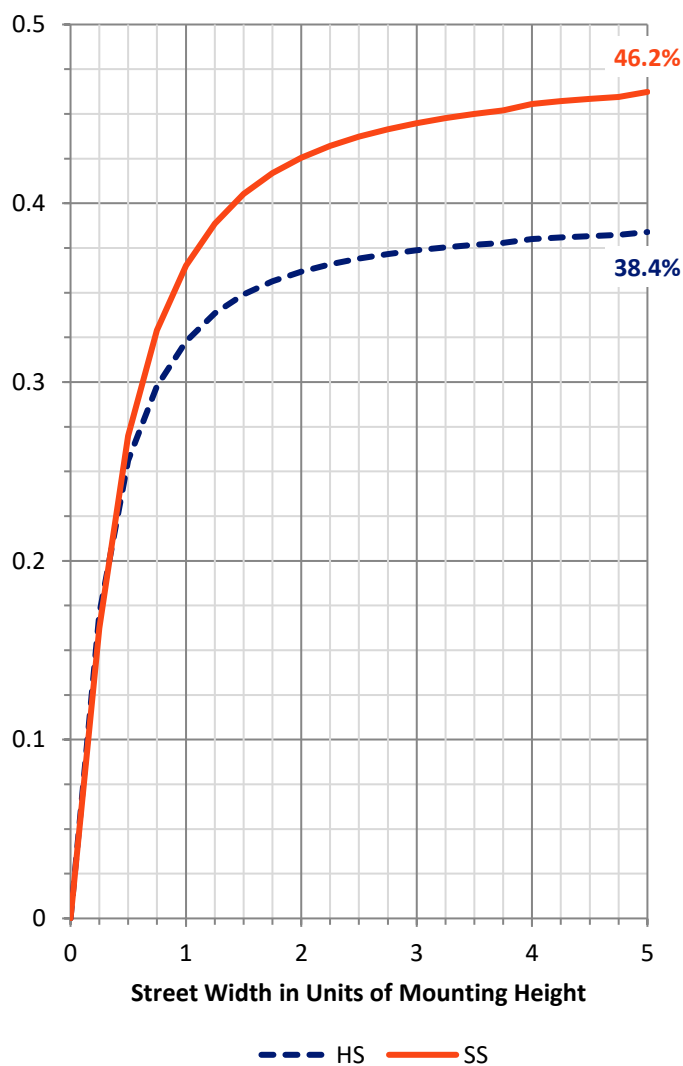
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2994.3	351.6	3345.9
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	3598.7	653.5	4252.2
	% Fixture	47.4	8.6	56.0
Total	Lumens	6592.9	1005.1	7598.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.0	6.8
10°-20°	1097.1	14.4
20°-30°	1194.0	15.7
30°-40°	874.0	11.5
40°-50°	734.8	9.7
50°-60°	746.2	9.8
60°-70°	634.3	8.3
70°-80°	473.3	6.2
80°-90°	322.2	4.2
90°-100°	193.5	2.5
100°-110°	110.9	1.5
110°-120°	102.1	1.3
120°-130°	148.4	2.0
130°-140°	204.0	2.7
140°-150°	168.9	2.2
150°-160°	68.7	0.9
160°-170°	8.5	0.1
170°-180°	0.0	0.0
0°-90°	6592.9	86.8
0°-180°	7598.0	100.0

Coefficient of Utilization



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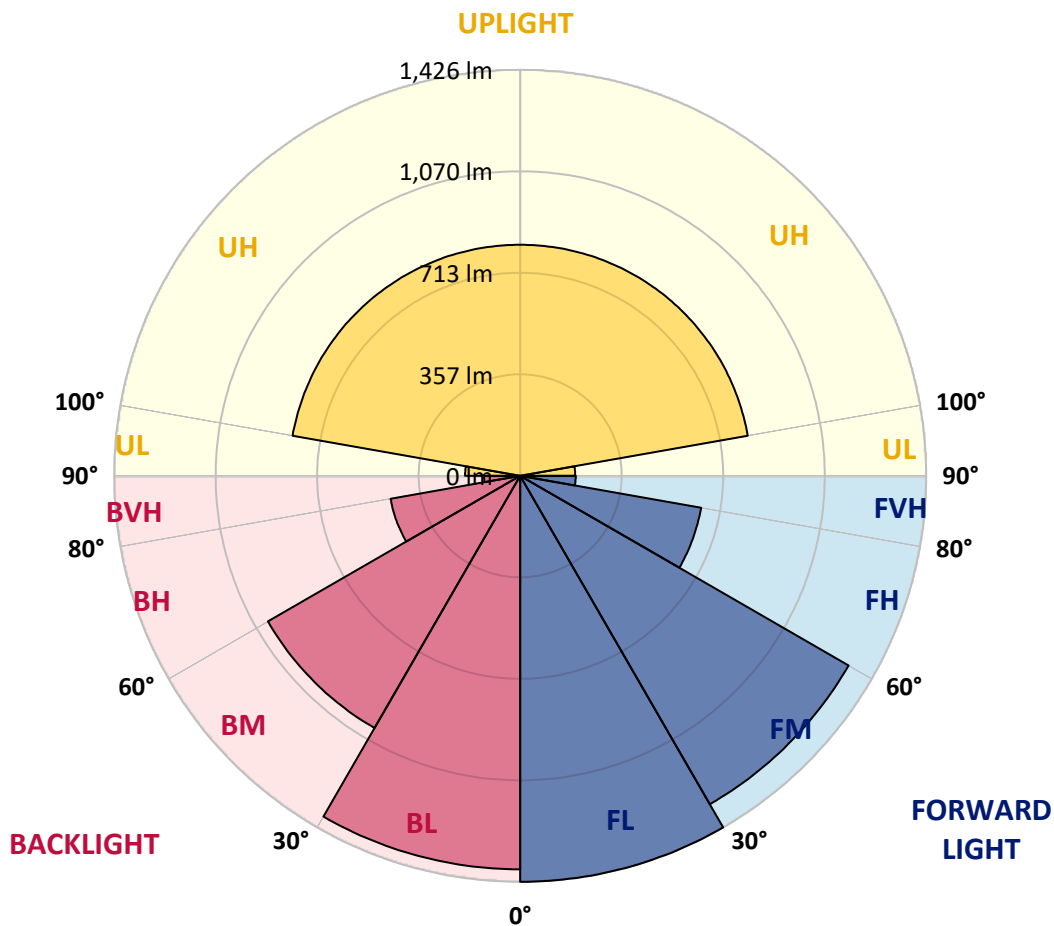
CATALOG NUMBER: CRTK2-C01H-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1426.0	18.8			
FM (30°-60°)	1332.0	17.5			
FH (60°-80°)	645.5	8.5			G0/660
FVH (80°-90°)	195.1	2.6			G2/225
BL (0°-30°)	1382.1	18.2	B3/2500		
BM (30°-60°)	1023.0	13.5	B2/2500		
BH (60°-80°)	462.2	6.1	B1/500		G1/500
BVH (80°-90°)	127.1	1.7			G2/225
UL (90°-100°)	193.5	2.5		U3/500	
UH (100°-180°)	811.6	10.7		U4/1000	

BUG Rating: B3-U4-G2

Type I Short





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CATALOG NUMBER: CRTK2-C01H-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6679.2	6679.2	6679.2	6679.2	6679.2	6679.2	6679.2	6679.2	6679.2	6679.2	6679.2
2.5°	5386.7	5376.5	5451.0	5467.9	5474.6	5552.5	5657.4	5728.4	5857.0	5982.2	6032.9
5°	4337.8	4317.5	4452.8	4567.8	4706.6	4889.3	5024.6	5187.0	5379.9	5566.0	5654.0
7.5°	3576.4	3603.5	3796.4	4033.2	4256.5	4473.1	4638.9	4777.6	4889.3	5007.7	5031.4
10°	3217.8	3241.5	3431.0	3657.7	3864.1	4084.0	4226.1	4344.5	4415.6	4503.6	4534.0
12.5°	3160.3	3177.2	3305.8	3464.8	3620.4	3820.1	3999.4	4131.4	4212.6	4283.6	4290.4
15°	3217.8	3224.6	3302.4	3407.3	3542.6	3708.4	3914.8	4063.7	4155.0	4185.5	4178.7
17.5°	3312.5	3312.5	3349.7	3437.7	3566.3	3725.3	3921.6	4073.8	4168.6	4182.1	4155.0
20°	3353.1	3359.9	3383.6	3481.7	3596.7	3742.2	3938.5	4067.1	4141.5	4104.3	4056.9
22.5°	3048.6	3035.1	3099.4	3305.8	3562.9	3823.4	4009.5	4155.0	4195.6	4070.5	3968.9
25°	2466.6	2473.4	2514.0	2615.5	2815.1	3055.4	3468.2	3911.4	4219.3	4172.0	4019.7
27.5°	2152.0	2131.7	2141.8	2158.7	2131.7	2080.9	2128.3	2118.1	2111.4	2233.2	2246.7
30°	1580.1	1583.5	1600.4	1630.9	1695.2	1789.9	1891.4	1948.9	1999.7	2094.4	2080.9
32.5°	1570.0	1573.4	1583.5	1610.6	1644.4	1708.7	1773.0	1796.7	1850.8	1928.6	1905.0
35°	1468.5	1458.3	1485.4	1509.1	1519.2	1546.3	1597.1	1630.9	1664.7	1718.9	1705.3
37.5°	1302.7	1306.1	1360.2	1397.4	1407.6	1444.8	1492.2	1519.2	1556.4	1603.8	1580.1
40°	1160.6	1164.0	1228.2	1268.8	1292.5	1343.3	1414.3	1448.2	1509.1	1546.3	1519.2
42.5°	998.2	1011.7	1055.7	1103.0	1116.6	1147.0	1194.4	1238.4	1316.2	1367.0	1350.0
45°	832.4	839.1	869.6	917.0	937.3	971.1	1015.1	1055.7	1116.6	1157.2	1153.8
47.5°	734.2	741.0	768.1	808.7	849.3	893.3	940.6	981.2	1038.8	1072.6	1059.1
50°	693.6	700.4	734.2	781.6	832.4	889.9	947.4	991.4	1045.5	1065.8	1048.9
52.5°	700.4	700.4	747.8	808.7	879.7	957.6	1028.6	1082.7	1126.7	1140.3	1103.0
55°	663.2	673.3	724.1	808.7	917.0	1038.8	1160.6	1275.6	1339.9	1326.4	1255.3
57.5°	605.7	615.8	653.0	744.4	859.4	1004.9	1177.5	1319.6	1397.4	1407.6	1336.5
60°	571.8	578.6	612.4	683.5	785.0	903.4	1059.1	1174.1	1262.1	1289.1	1238.4
62.5°	541.4	548.1	575.2	629.3	703.8	795.1	883.1	957.6	1028.6	1055.7	1035.4
65°	507.5	510.9	538.0	585.4	646.3	724.1	798.5	852.7	910.2	927.1	903.4
67.5°	473.7	477.1	500.8	544.8	602.3	673.3	730.9	791.8	849.3	862.8	845.9
70°	443.2	446.6	466.9	507.5	558.3	626.0	680.1	720.7	778.2	791.8	771.5
72.5°	412.8	416.2	436.5	473.7	521.1	582.0	629.3	669.9	717.3	720.7	703.8
75°	382.3	385.7	402.6	436.5	477.1	538.0	582.0	615.8	656.4	656.4	636.1
77.5°	348.5	355.3	368.8	399.3	436.5	494.0	534.6	568.4	602.3	598.9	578.6
80°	318.1	321.4	335.0	362.0	395.9	450.0	490.6	517.7	548.1	544.8	527.8
82.5°	284.2	287.6	297.8	324.8	355.3	406.0	446.6	473.7	500.8	494.0	477.1
85°	250.4	253.8	267.3	287.6	318.1	365.4	402.6	429.7	450.0	443.2	429.7
87.5°	223.3	223.3	233.5	253.8	280.8	324.8	358.7	385.7	402.6	399.3	385.7
90°	192.9	196.2	203.0	219.9	243.6	280.8	314.7	338.4	355.3	348.5	335.0
92.5°	169.2	169.2	175.9	192.9	213.2	247.0	277.5	297.8	311.3	307.9	297.8
95°	145.5	148.9	152.3	165.8	182.7	209.8	236.9	257.2	270.7	267.3	260.5
97.5°	128.6	132.0	135.3	142.1	159.0	175.9	199.6	216.5	230.1	226.7	219.9
100°	118.4	118.4	118.4	125.2	135.3	148.9	165.8	179.3	186.1	189.5	182.7
102.5°	108.3	108.3	111.7	111.7	118.4	125.2	135.3	145.5	148.9	148.9	148.9
105°	104.9	104.9	108.3	108.3	111.7	115.0	121.8	125.2	128.6	128.6	125.2
107.5°	104.9	104.9	104.9	104.9	108.3	111.7	115.0	118.4	118.4	118.4	115.0
110°	108.3	108.3	108.3	108.3	108.3	111.7	111.7	115.0	115.0	111.7	111.7



REPORT NUMBER: P691765

CATALOG NUMBER: CRTK2-C01H-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	111.7	111.7	111.7	111.7	111.7	115.0	115.0	115.0	115.0	111.7	111.7
115°	118.4	118.4	118.4	121.8	121.8	121.8	121.8	121.8	121.8	118.4	115.0
117.5°	132.0	132.0	132.0	132.0	135.3	135.3	135.3	135.3	135.3	128.6	128.6
120°	148.9	145.5	148.9	152.3	155.6	155.6	155.6	155.6	155.6	148.9	145.5
122.5°	165.8	165.8	169.2	175.9	182.7	186.1	182.7	182.7	182.7	172.6	169.2
125°	186.1	186.1	196.2	209.8	219.9	223.3	219.9	219.9	219.9	209.8	203.0
127.5°	209.8	209.8	223.3	243.6	260.5	270.7	267.3	267.3	267.3	250.4	240.2
130°	233.5	233.5	253.8	280.8	307.9	314.7	318.1	321.4	321.4	301.1	287.6
132.5°	250.4	253.8	277.5	314.7	348.5	358.7	368.8	372.2	372.2	348.5	328.2
135°	267.3	270.7	301.1	345.1	382.3	406.0	416.2	419.6	422.9	395.9	372.2
137.5°	277.5	280.8	314.7	365.4	402.6	433.1	456.8	463.6	463.6	433.1	402.6
140°	277.5	280.8	318.1	365.4	406.0	443.2	470.3	483.9	483.9	453.4	426.3
142.5°	270.7	277.5	311.3	358.7	399.3	436.5	466.9	480.5	480.5	453.4	426.3
145°	257.2	260.5	294.4	335.0	375.6	419.6	453.4	466.9	466.9	439.9	412.8
147.5°	233.5	236.9	263.9	301.1	341.7	385.7	419.6	436.5	433.1	409.4	385.7
150°	203.0	203.0	226.7	257.2	297.8	338.4	372.2	389.1	389.1	365.4	345.1
152.5°	165.8	165.8	182.7	206.4	240.2	280.8	307.9	324.8	324.8	307.9	291.0
155°	128.6	128.6	142.1	159.0	186.1	216.5	236.9	253.8	253.8	240.2	226.7
157.5°	91.4	91.4	104.9	118.4	138.7	162.4	179.3	189.5	192.9	179.3	172.6
160°	60.9	60.9	67.7	77.8	94.7	111.7	121.8	132.0	135.3	125.2	121.8
162.5°	33.8	33.8	37.2	47.4	57.5	67.7	77.8	84.6	84.6	81.2	77.8
165°	10.2	10.2	13.5	16.9	23.7	30.5	33.8	37.2	40.6	40.6	37.2
167.5°	0.0	0.0	3.4	3.4	3.4	3.4	6.8	6.8	10.2	10.2	10.2
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°	6679.2	6679.2	6679.2	6679.2	6679.2	6679.2	6679.2	6679.2	6679.2	6679.2	6679.2
2.5°	6137.8	6327.3	6533.7	6733.3	6976.9	7230.7	7464.2	7623.2	7707.8	7734.9	7734.9
5°	5721.6	5894.2	6046.5	6235.9	6530.3	6912.7	7335.6	7687.5	7887.1	7910.8	7914.2
7.5°	5072.0	5214.1	5373.1	5542.3	5802.8	6144.6	6702.9	7271.3	7596.1	7657.1	7633.4
10°	4540.8	4628.7	4723.5	4787.8	4970.5	5224.3	5603.2	6161.5	6560.8	6608.1	6642.0
12.5°	4293.8	4307.3	4280.2	4293.8	4354.7	4473.1	4659.2	4980.6	5241.2	5285.2	5308.8
15°	4168.6	4100.9	3992.6	3891.1	3837.0	3847.1	3887.7	4019.7	4063.7	4138.1	4104.3
17.5°	4111.1	3958.8	3789.6	3593.4	3471.6	3346.4	3278.7	3255.0	3238.1	3241.5	3271.9
20°	3965.6	3793.0	3522.3	3265.2	3068.9	2896.3	2750.9	2646.0	2588.4	2561.4	2581.7
22.5°	3813.3	3546.0	3227.9	2950.5	2669.6	2449.7	2283.9	2131.7	2047.1	2070.8	2043.7
25°	3816.7	3417.4	3038.5	2673.0	2409.1	2118.1	1854.2	1695.2	1556.4	1583.5	1620.7
27.5°	2405.7	2300.8	2030.2	1817.0	1553.1	1407.6	1275.6	1164.0	1086.1	1089.5	1079.4
30°	2040.3	1932.0	1796.7	1627.5	1427.9	1258.7	1106.4	977.9	903.4	883.1	879.7
32.5°	1884.7	1793.3	1668.1	1502.3	1319.6	1150.4	998.2	879.7	805.3	801.9	801.9
35°	1678.3	1593.7	1488.8	1346.7	1191.0	1035.4	893.3	791.8	730.9	730.9	727.5
37.5°	1549.7	1475.2	1373.7	1241.8	1103.0	947.4	822.2	730.9	666.6	663.2	666.6
40°	1482.0	1404.2	1306.1	1180.9	1042.1	893.3	774.8	680.1	632.7	629.3	626.0
42.5°	1346.7	1285.8	1201.2	1086.1	964.3	832.4	720.7	636.1	595.5	592.1	595.5
45°	1143.7	1099.7	1042.1	957.6	856.0	744.4	646.3	582.0	541.4	541.4	541.4
47.5°	1048.9	1008.3	944.0	859.4	771.5	666.6	585.4	531.2	494.0	494.0	494.0
50°	1025.2	974.5	889.9	795.1	700.4	609.0	534.6	480.5	453.4	450.0	453.4
52.5°	1059.1	981.2	866.2	754.5	649.6	561.7	490.6	439.9	412.8	412.8	412.8
55°	1180.9	1038.8	886.5	744.4	619.2	521.1	450.0	399.3	372.2	368.8	372.2
57.5°	1262.1	1082.7	893.3	734.2	598.9	494.0	416.2	362.0	335.0	331.6	335.0
60°	1191.0	1045.5	862.8	707.2	582.0	473.7	392.5	338.4	311.3	307.9	307.9
62.5°	988.0	903.4	771.5	639.5	538.0	443.2	368.8	318.1	291.0	287.6	291.0
65°	876.3	801.9	686.9	582.0	494.0	412.8	348.5	304.5	277.5	277.5	277.5
67.5°	815.4	747.8	639.5	538.0	456.8	382.3	321.4	280.8	257.2	257.2	257.2
70°	744.4	676.7	578.6	487.2	412.8	348.5	294.4	253.8	233.5	230.1	233.5
72.5°	683.5	615.8	524.5	439.9	372.2	314.7	267.3	230.1	213.2	209.8	213.2
75°	615.8	551.5	463.6	389.1	331.6	280.8	240.2	206.4	192.9	189.5	189.5
77.5°	558.3	497.4	416.2	348.5	297.8	250.4	213.2	189.5	175.9	172.6	172.6
80°	507.5	450.0	372.2	311.3	263.9	223.3	192.9	169.2	155.6	155.6	155.6
82.5°	453.4	402.6	331.6	274.1	233.5	199.6	169.2	148.9	138.7	138.7	138.7
85°	409.4	358.7	291.0	243.6	203.0	172.6	148.9	132.0	121.8	121.8	121.8
87.5°	362.0	318.1	257.2	213.2	179.3	152.3	128.6	111.7	108.3	104.9	104.9
90°	314.7	274.1	219.9	182.7	152.3	128.6	108.3	94.7	91.4	88.0	88.0
92.5°	280.8	243.6	199.6	165.8	138.7	115.0	101.5	88.0	84.6	84.6	81.2
95°	243.6	213.2	175.9	148.9	125.2	108.3	94.7	84.6	81.2	81.2	77.8
97.5°	209.8	182.7	155.6	135.3	115.0	101.5	88.0	81.2	74.4	74.4	74.4
100°	175.9	155.6	135.3	115.0	104.9	91.4	81.2	74.4	71.1	67.7	67.7
102.5°	142.1	128.6	111.7	101.5	88.0	77.8	71.1	64.3	60.9	60.9	60.9
105°	121.8	111.7	101.5	91.4	81.2	71.1	64.3	57.5	54.1	54.1	54.1
107.5°	111.7	104.9	94.7	84.6	77.8	67.7	60.9	50.8	47.4	50.8	50.8
110°	108.3	101.5	91.4	84.6	74.4	67.7	60.9	47.4	44.0	47.4	47.4



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	108.3	101.5	94.7	84.6	77.8	67.7	60.9	47.4	44.0	44.0	44.0
115°	111.7	108.3	98.1	91.4	81.2	71.1	60.9	47.4	44.0	44.0	44.0
117.5°	125.2	118.4	108.3	98.1	88.0	74.4	64.3	47.4	44.0	44.0	44.0
120°	138.7	132.0	121.8	108.3	94.7	81.2	67.7	47.4	40.6	44.0	44.0
122.5°	162.4	152.3	138.7	121.8	104.9	88.0	67.7	50.8	37.2	44.0	44.0
125°	192.9	179.3	159.0	135.3	115.0	94.7	71.1	50.8	40.6	44.0	44.0
127.5°	226.7	209.8	182.7	152.3	125.2	98.1	74.4	50.8	40.6	40.6	44.0
130°	270.7	243.6	206.4	169.2	135.3	104.9	74.4	50.8	40.6	40.6	40.6
132.5°	307.9	274.1	226.7	182.7	142.1	108.3	74.4	50.8	37.2	37.2	37.2
135°	345.1	301.1	243.6	192.9	148.9	108.3	74.4	47.4	37.2	37.2	37.2
137.5°	375.6	318.1	257.2	196.2	148.9	104.9	71.1	44.0	33.8	33.8	33.8
140°	392.5	328.2	260.5	196.2	142.1	101.5	64.3	40.6	30.5	30.5	30.5
142.5°	392.5	324.8	257.2	189.5	135.3	94.7	57.5	33.8	27.1	27.1	27.1
145°	379.0	311.3	243.6	179.3	125.2	84.6	50.8	30.5	20.3	20.3	23.7
147.5°	355.3	287.6	223.3	162.4	111.7	71.1	44.0	23.7	16.9	16.9	16.9
150°	314.7	253.8	192.9	142.1	94.7	60.9	37.2	20.3	13.5	13.5	13.5
152.5°	263.9	209.8	162.4	118.4	77.8	47.4	27.1	16.9	10.2	10.2	10.2
155°	209.8	165.8	128.6	91.4	57.5	37.2	20.3	13.5	10.2	10.2	10.2
157.5°	155.6	125.2	94.7	67.7	44.0	27.1	16.9	10.2	6.8	6.8	6.8
160°	108.3	88.0	64.3	44.0	27.1	16.9	10.2	6.8	3.4	3.4	3.4
162.5°	71.1	54.1	40.6	27.1	16.9	10.2	6.8	3.4	3.4	3.4	3.4
165°	33.8	27.1	20.3	13.5	6.8	6.8	3.4	3.4	0.0	0.0	0.0
167.5°	10.2	6.8	3.4	3.4	3.4	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)