

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: P691850

Luminaire Tested: **CRTK2-C01H-D-U-T2-7040-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-7)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C01H-D-U-T2-7040-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE II OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8056 lumens
Efficiency: N/A
Efficacy: 114.8 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



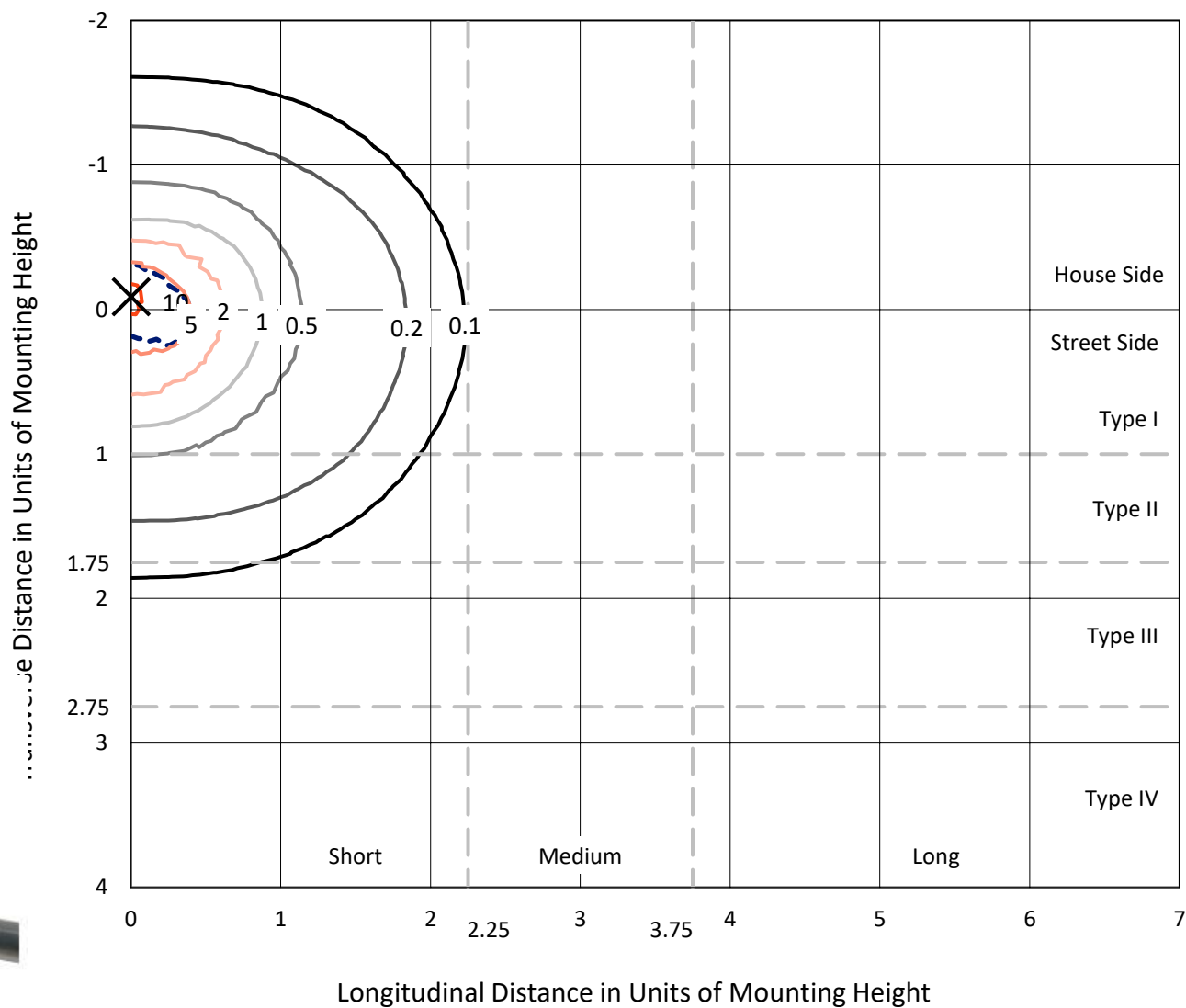
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



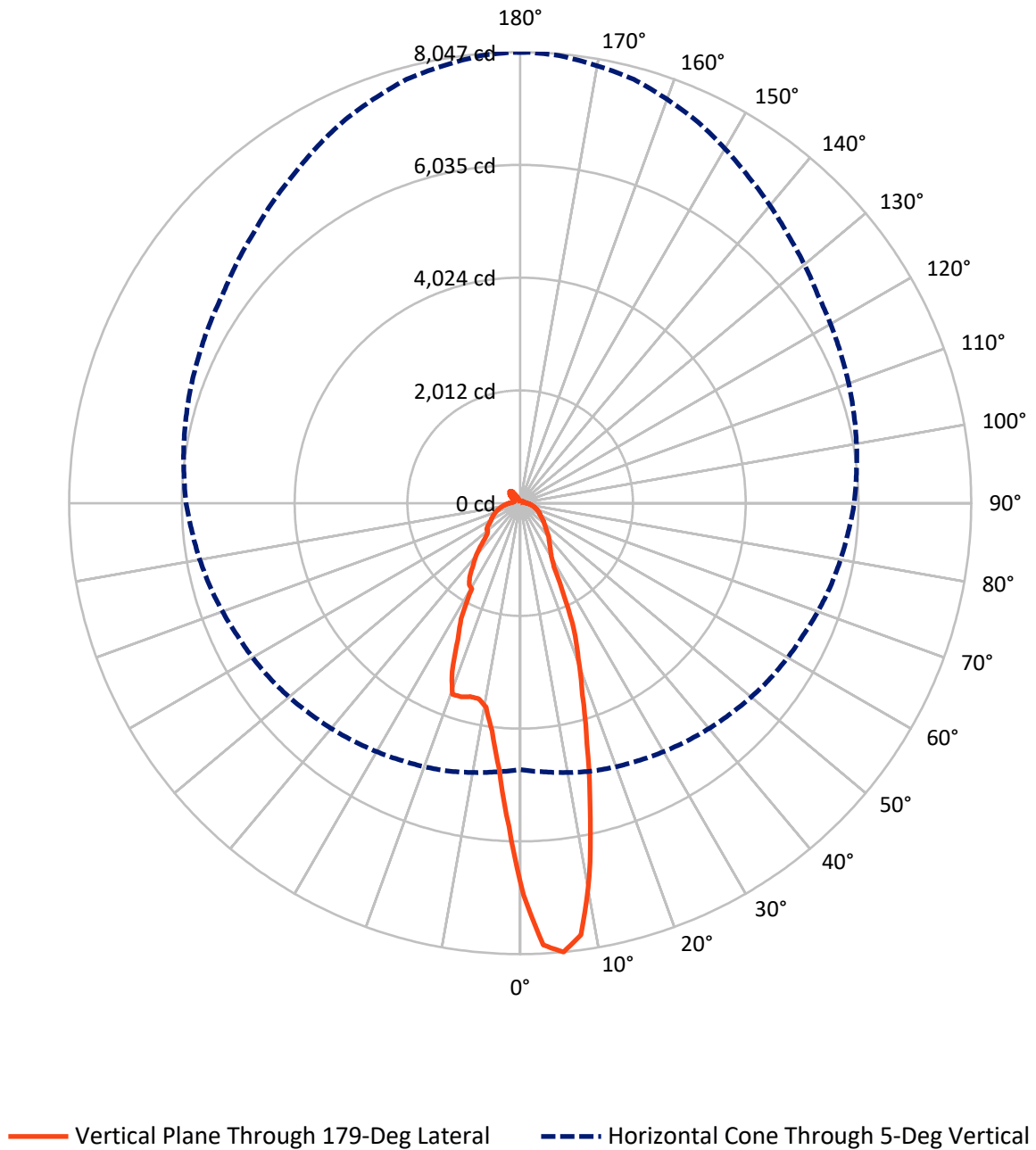
Based on 25 foot mounting height. Maximum calculated value = 12.2 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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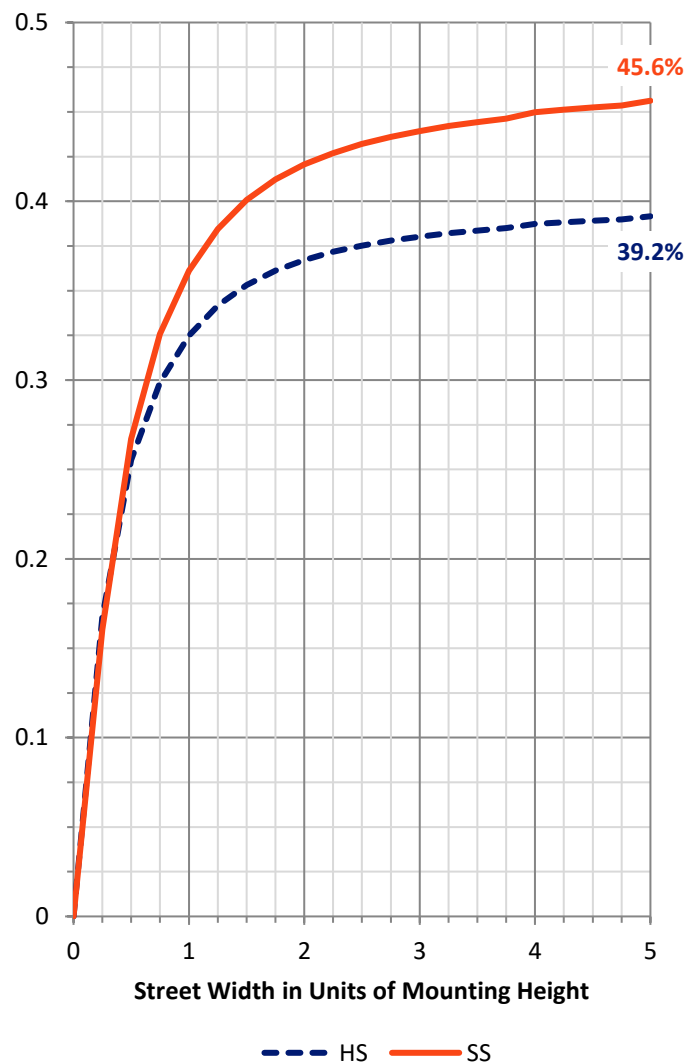
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3241.8	394.2	3636.0
	% Fixture	40.2	4.9	45.1
Street Side	Lumens	3762.8	657.3	4420.0
	% Fixture	46.7	8.2	54.9
Total	Lumens	7004.6	1051.4	8056.0
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.5	6.8
10°-20°	1166.0	14.5
20°-30°	1266.7	15.7
30°-40°	937.6	11.6
40°-50°	785.2	9.7
50°-60°	789.4	9.8
60°-70°	672.1	8.3
70°-80°	502.0	6.2
80°-90°	338.9	4.2
90°-100°	202.6	2.5
100°-110°	117.0	1.5
110°-120°	107.7	1.3
120°-130°	155.8	1.9
130°-140°	213.2	2.6
140°-150°	175.7	2.2
150°-160°	70.7	0.9
160°-170°	8.7	0.1
170°-180°	0.0	0.0
0°-90°	7004.6	86.9
0°-180°	8056.0	100.0

Coefficient of Utilization



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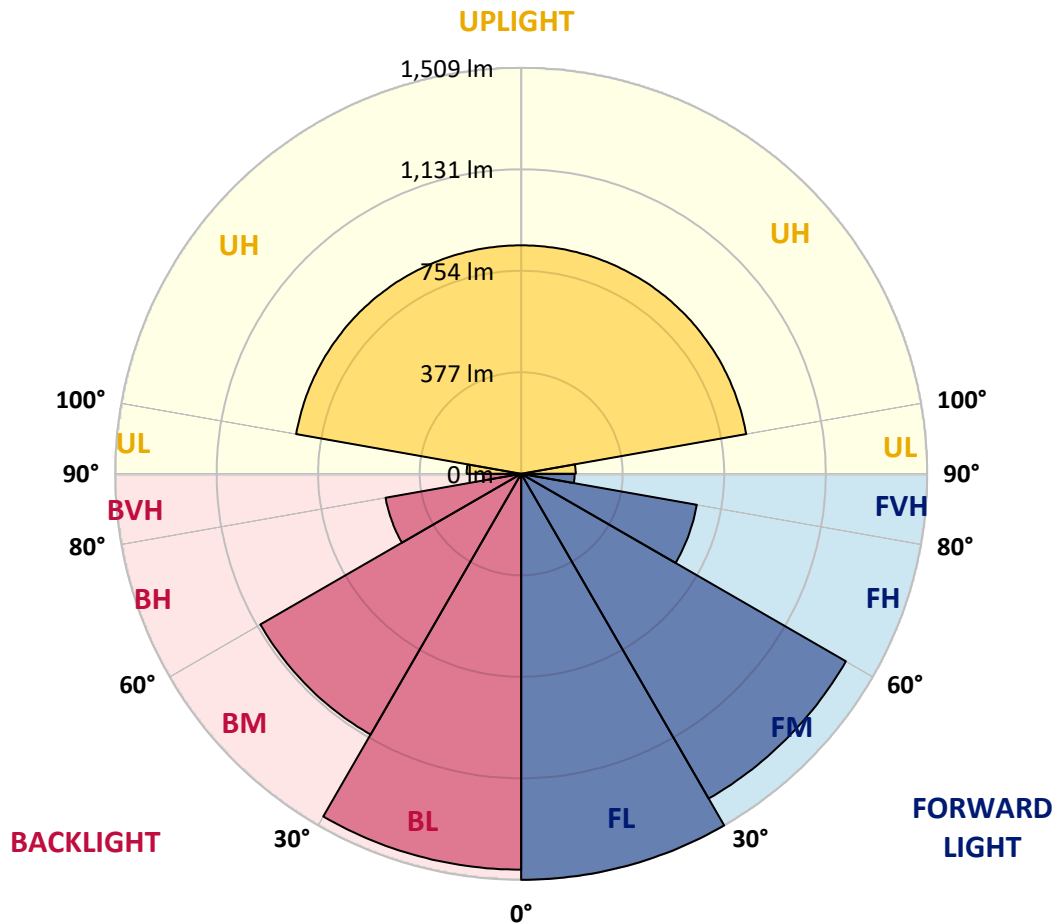
CATALOG NUMBER: CRTK2-C01H-D-U-T2-7040-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1508.5	18.7			
FM	(30°-60°)	1393.2	17.3			
FH	(60°-80°)	662.6	8.2			G1/1800
FVH	(80°-90°)	198.5	2.5			G2/225
BL	(0°-30°)	1470.8	18.3	B3/2500		
BM	(30°-60°)	1119.1	13.9	B2/2500		
BH	(60°-80°)	511.5	6.3	B2/1000		G2/1000
BVH	(80°-90°)	140.5	1.7			G2/225
UL	(90°-100°)	202.6	2.5		U3/500	
UH	(100°-180°)	848.9	10.5		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°	6990.6	6990.6	6990.6	6990.6	6990.6	6990.6	6990.6	6990.6	6990.6	6990.6	6990.6
2.5°	5763.1	5795.4	5866.4	5902.0	5937.5	5982.7	6050.6	6102.3	6221.8	6331.6	6376.8
5°	4755.2	4813.3	4949.0	5058.8	5181.6	5310.8	5449.7	5572.5	5730.8	5876.1	5960.1
7.5°	4086.5	4134.9	4296.5	4509.7	4726.1	4907.0	5049.1	5142.8	5213.9	5272.0	5333.4
10°	3679.4	3721.4	3883.0	4073.6	4257.7	4425.7	4545.2	4635.6	4661.5	4719.6	4748.7
12.5°	3563.1	3582.5	3695.6	3828.0	3941.1	4105.9	4248.0	4344.9	4386.9	4438.6	4454.7
15°	3566.4	3566.4	3631.0	3715.0	3818.4	3944.3	4102.6	4218.9	4280.3	4309.4	4306.1
17.5°	3614.8	3611.6	3640.7	3708.5	3795.7	3921.7	4083.2	4202.8	4273.8	4283.5	4273.8
20°	3614.8	3618.1	3627.8	3705.3	3789.3	3902.3	4067.1	4167.2	4222.2	4193.1	4160.8
22.5°	3246.6	3243.3	3327.3	3492.1	3718.2	3954.0	4102.6	4225.4	4238.3	4131.7	4044.5
25°	2681.2	2658.6	2707.1	2781.4	2933.2	3207.8	3517.9	3983.1	4260.9	4199.5	4067.1
27.5°	2325.9	2296.8	2338.8	2306.5	2290.4	2271.0	2251.6	2196.7	2232.2	2264.5	2406.7
30°	1754.1	1760.6	1770.3	1789.7	1828.4	1905.9	1986.7	2035.2	2077.2	2161.1	2151.5
32.5°	1715.4	1712.1	1715.4	1734.7	1754.1	1802.6	1851.0	1876.9	1909.2	1989.9	1970.6
35°	1586.1	1579.7	1602.3	1612.0	1608.7	1621.7	1670.1	1699.2	1728.3	1780.0	1760.6
37.5°	1395.5	1402.0	1450.5	1476.3	1486.0	1515.1	1553.8	1579.7	1615.2	1654.0	1644.3
40°	1253.4	1250.2	1301.9	1337.4	1360.0	1405.2	1463.4	1502.1	1560.3	1592.6	1570.0
42.5°	1079.0	1091.9	1130.6	1166.2	1172.6	1195.3	1246.9	1292.2	1363.2	1411.7	1398.8
45°	907.7	917.4	949.7	978.8	1001.4	1030.5	1069.3	1108.0	1166.2	1204.9	1201.7
47.5°	801.1	810.8	836.7	872.2	904.5	946.5	985.3	1024.0	1079.0	1108.0	1098.3
50°	759.1	765.6	794.7	833.4	881.9	933.6	985.3	1027.3	1079.0	1098.3	1082.2
52.5°	755.9	755.9	791.5	849.6	917.4	988.5	1056.3	1114.5	1162.9	1162.9	1130.6
55°	710.7	717.2	762.4	839.9	943.3	1059.6	1179.1	1288.9	1353.5	1340.6	1279.2
57.5°	646.1	649.3	697.8	772.1	881.9	1024.0	1185.6	1324.5	1402.0	1418.2	1353.5
60°	607.3	610.5	642.9	713.9	807.6	920.7	1069.3	1179.1	1256.6	1305.1	1253.4
62.5°	575.0	575.0	607.3	655.8	733.3	817.3	901.3	975.6	1037.0	1072.5	1043.4
65°	539.5	539.5	562.1	607.3	668.7	749.5	814.1	869.0	923.9	949.7	923.9
67.5°	503.9	503.9	526.6	568.6	623.5	691.3	755.9	807.6	862.5	881.9	862.5
70°	468.4	468.4	491.0	526.6	578.2	642.9	691.3	746.2	797.9	810.8	794.7
72.5°	432.9	432.9	455.5	487.8	533.0	594.4	639.6	681.6	730.1	739.8	723.6
75°	400.6	400.6	416.7	449.0	491.0	545.9	591.2	629.9	668.7	668.7	655.8
77.5°	365.0	368.3	381.2	410.3	449.0	500.7	542.7	578.2	610.5	610.5	594.4
80°	329.5	332.7	345.7	371.5	407.0	455.5	494.3	526.6	555.6	555.6	539.5
82.5°	294.0	297.2	310.1	332.7	365.0	410.3	449.0	481.3	507.2	503.9	487.8
85°	261.7	264.9	274.6	294.0	323.0	368.3	403.8	432.9	455.5	452.3	439.3
87.5°	229.4	232.6	242.3	258.4	284.3	326.3	361.8	387.6	407.0	403.8	390.9
90°	200.3	200.3	210.0	226.1	248.7	284.3	316.6	339.2	358.6	352.1	339.2
92.5°	174.4	177.7	184.1	197.1	216.4	248.7	277.8	297.2	316.6	313.4	300.4
95°	155.1	155.1	161.5	171.2	187.4	213.2	242.3	258.4	271.4	271.4	261.7
97.5°	135.7	138.9	142.1	148.6	161.5	180.9	203.5	219.7	229.4	229.4	222.9
100°	122.8	126.0	126.0	132.4	138.9	151.8	168.0	180.9	190.6	190.6	187.4
102.5°	116.3	116.3	116.3	119.5	122.8	129.2	138.9	145.4	151.8	155.1	151.8
105°	109.8	109.8	109.8	113.1	113.1	119.5	122.8	129.2	132.4	132.4	129.2
107.5°	106.6	106.6	109.8	109.8	109.8	113.1	119.5	119.5	122.8	119.5	119.5
110°	109.8	109.8	109.8	109.8	109.8	113.1	116.3	116.3	116.3	116.3	113.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	113.1	113.1	113.1	113.1	116.3	116.3	116.3	119.5	119.5	116.3	116.3
115°	122.8	122.8	122.8	122.8	122.8	126.0	126.0	126.0	126.0	122.8	119.5
117.5°	132.4	132.4	132.4	135.7	135.7	138.9	135.7	138.9	135.7	132.4	132.4
120°	148.6	148.6	151.8	155.1	158.3	158.3	155.1	158.3	158.3	151.8	148.6
122.5°	168.0	168.0	171.2	180.9	184.1	187.4	184.1	184.1	184.1	177.7	174.4
125°	187.4	190.6	197.1	210.0	219.7	226.1	219.7	222.9	222.9	213.2	210.0
127.5°	210.0	213.2	226.1	245.5	261.7	268.1	264.9	268.1	271.4	255.2	248.7
130°	232.6	232.6	252.0	281.0	303.7	313.4	316.6	319.8	323.0	306.9	294.0
132.5°	252.0	252.0	277.8	313.4	342.4	358.6	365.0	371.5	378.0	355.3	339.2
135°	264.9	268.1	300.4	342.4	378.0	400.6	410.3	416.7	426.4	400.6	381.2
137.5°	274.6	281.0	313.4	358.6	397.3	429.6	449.0	458.7	465.2	439.3	413.5
140°	277.8	281.0	316.6	361.8	400.6	436.1	465.2	481.3	484.6	458.7	432.9
142.5°	268.1	274.6	306.9	352.1	390.9	429.6	461.9	478.1	481.3	458.7	432.9
145°	255.2	258.4	287.5	329.5	368.3	410.3	445.8	461.9	461.9	442.6	416.7
147.5°	232.6	235.8	261.7	297.2	336.0	378.0	413.5	429.6	432.9	413.5	390.9
150°	200.3	203.5	222.9	252.0	290.7	332.7	365.0	384.4	384.4	365.0	348.9
152.5°	161.5	164.8	180.9	203.5	235.8	274.6	303.7	323.0	323.0	310.1	290.7
155°	126.0	126.0	138.9	158.3	180.9	210.0	232.6	248.7	252.0	239.1	226.1
157.5°	90.5	90.5	100.1	116.3	135.7	158.3	174.4	187.4	187.4	177.7	171.2
160°	61.4	61.4	67.8	77.5	90.5	106.6	119.5	132.4	132.4	126.0	119.5
162.5°	32.3	32.3	38.8	45.2	54.9	67.8	74.3	84.0	84.0	80.8	77.5
165°	9.7	9.7	12.9	16.2	22.6	29.1	32.3	38.8	42.0	38.8	35.5
167.5°	0.0	0.0	3.2	3.2	3.2	3.2	6.5	9.7	9.7	9.7	9.7
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°	6990.6	6990.6	6990.6	6990.6	6990.6	6990.6	6990.6	6990.6	6990.6	6990.6	6990.6
2.5°	6425.3	6628.8	6812.9	7003.5	7239.4	7446.1	7669.0	7827.3	7895.1	7895.1	7921.0
5°	6021.5	6163.6	6312.2	6480.2	6761.3	7106.9	7504.3	7830.5	8017.9	8047.0	8043.7
7.5°	5352.8	5449.7	5601.5	5788.9	6047.3	6357.5	6867.9	7378.3	7717.5	7778.8	7756.2
10°	4764.9	4855.3	4945.8	5016.8	5201.0	5446.5	5821.2	6318.7	6709.6	6771.0	6722.5
12.5°	4464.4	4493.5	4490.3	4532.3	4606.6	4729.3	4919.9	5207.4	5475.6	5533.7	5491.7
15°	4306.1	4264.1	4199.5	4125.2	4118.8	4138.2	4186.6	4302.9	4416.0	4464.4	4432.1
17.5°	4241.5	4141.4	4008.9	3863.6	3766.7	3676.2	3614.8	3576.1	3592.2	3595.5	3569.6
20°	4089.7	3970.2	3757.0	3550.2	3395.2	3236.9	3101.2	3001.1	2984.9	2968.8	2949.4
22.5°	3918.5	3715.0	3459.8	3207.8	2978.4	2768.5	2616.6	2497.1	2451.9	2468.0	2458.3
25°	3883.0	3543.8	3233.6	2826.6	2535.9	2300.1	2015.8	1822.0	1734.7	1783.2	1750.9
27.5°	2329.1	2338.8	2164.4	1918.9	1708.9	1570.0	1444.0	1340.6	1282.5	1282.5	1288.9
30°	2109.5	2015.8	1899.5	1747.7	1563.5	1424.6	1285.7	1172.6	1111.3	1095.1	1101.6
32.5°	1928.6	1863.9	1754.1	1608.7	1440.8	1298.6	1153.3	1049.9	991.7	988.5	985.3
35°	1734.7	1666.9	1576.4	1450.5	1305.1	1172.6	1046.7	956.2	904.5	907.7	907.7
37.5°	1602.3	1540.9	1460.1	1340.6	1208.2	1075.7	962.7	878.7	836.7	836.7	833.4
40°	1534.4	1463.4	1376.2	1266.3	1143.6	1004.7	898.1	817.3	781.8	781.8	778.5
42.5°	1385.8	1324.5	1266.3	1153.3	1030.5	917.4	817.3	746.2	710.7	710.7	710.7
45°	1175.9	1140.3	1095.1	1017.6	917.4	823.8	739.8	671.9	642.9	639.6	639.6
47.5°	1085.4	1046.7	991.7	920.7	839.9	752.7	671.9	623.5	594.4	594.4	594.4
50°	1059.6	1014.4	940.1	856.1	772.1	694.5	623.5	578.2	552.4	552.4	555.6
52.5°	1095.1	1020.8	920.7	817.3	730.1	642.9	581.5	536.2	516.9	516.9	513.6
55°	1217.9	1079.0	933.6	807.6	697.8	604.1	539.5	491.0	468.4	468.4	468.4
57.5°	1285.7	1121.0	943.3	794.7	668.7	575.0	507.2	455.5	432.9	432.9	432.9
60°	1208.2	1072.5	904.5	768.8	646.1	549.2	478.1	429.6	407.0	403.8	400.6
62.5°	1011.1	927.1	807.6	694.5	597.6	513.6	455.5	407.0	384.4	384.4	381.2
65°	901.3	830.2	726.8	629.9	549.2	478.1	423.2	384.4	361.8	358.6	358.6
67.5°	839.9	775.3	671.9	581.5	507.2	442.6	390.9	355.3	339.2	332.7	332.7
70°	772.1	701.0	610.5	529.8	461.9	403.8	361.8	326.3	310.1	306.9	303.7
72.5°	704.2	639.6	555.6	478.1	416.7	368.3	329.5	297.2	281.0	277.8	277.8
75°	633.2	571.8	491.0	426.4	374.7	329.5	294.0	268.1	255.2	252.0	248.7
77.5°	575.0	520.1	442.6	381.2	332.7	297.2	264.9	242.3	229.4	229.4	226.1
80°	520.1	468.4	394.1	339.2	297.2	261.7	235.8	216.4	206.7	203.5	203.5
82.5°	468.4	416.7	348.9	300.4	261.7	232.6	206.7	190.6	180.9	180.9	180.9
85°	420.0	371.5	310.1	264.9	229.4	203.5	180.9	164.8	158.3	155.1	158.3
87.5°	371.5	326.3	274.6	232.6	200.3	174.4	155.1	142.1	135.7	135.7	135.7
90°	326.3	284.3	235.8	197.1	171.2	148.6	132.4	119.5	116.3	113.1	113.1
92.5°	287.5	252.0	210.0	177.7	151.8	135.7	119.5	109.8	103.4	103.4	103.4
95°	252.0	219.7	187.4	158.3	138.9	122.8	109.8	100.1	96.9	96.9	96.9
97.5°	216.4	190.6	164.8	142.1	126.0	113.1	100.1	93.7	90.5	87.2	90.5
100°	180.9	161.5	142.1	126.0	113.1	100.1	90.5	84.0	80.8	80.8	80.8
102.5°	145.4	135.7	119.5	106.6	96.9	90.5	80.8	74.3	71.1	71.1	71.1
105°	126.0	116.3	106.6	96.9	90.5	80.8	74.3	67.8	64.6	64.6	64.6
107.5°	116.3	109.8	100.1	93.7	84.0	77.5	71.1	61.4	58.1	58.1	58.1
110°	113.1	106.6	100.1	90.5	84.0	77.5	71.1	58.1	54.9	54.9	54.9

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	113.1	106.6	100.1	93.7	87.2	77.5	71.1	58.1	51.7	51.7	51.7
115°	119.5	113.1	106.6	100.1	90.5	80.8	74.3	58.1	51.7	51.7	51.7
117.5°	129.2	122.8	116.3	106.6	96.9	87.2	74.3	58.1	54.9	54.9	54.9
120°	145.4	138.9	129.2	119.5	106.6	93.7	80.8	61.4	51.7	54.9	54.9
122.5°	168.0	161.5	148.6	132.4	119.5	103.4	84.0	64.6	48.5	54.9	54.9
125°	200.3	190.6	171.2	151.8	132.4	113.1	90.5	67.8	51.7	58.1	58.1
127.5°	235.8	222.9	197.1	171.2	148.6	122.8	96.9	71.1	54.9	58.1	58.1
130°	277.8	255.2	222.9	190.6	161.5	132.4	103.4	74.3	58.1	58.1	58.1
132.5°	319.8	287.5	245.5	210.0	174.4	138.9	106.6	74.3	58.1	58.1	58.1
135°	355.3	316.6	268.1	222.9	180.9	142.1	109.8	74.3	58.1	58.1	58.1
137.5°	387.6	336.0	281.0	229.4	184.1	142.1	106.6	74.3	54.9	54.9	54.9
140°	403.8	345.7	287.5	229.4	180.9	138.9	100.1	67.8	51.7	51.7	51.7
142.5°	403.8	342.4	281.0	222.9	174.4	132.4	93.7	64.6	45.2	48.5	48.5
145°	390.9	329.5	268.1	210.0	161.5	119.5	84.0	54.9	42.0	42.0	42.0
147.5°	361.8	303.7	245.5	190.6	145.4	103.4	74.3	48.5	35.5	32.3	35.5
150°	323.0	268.1	213.2	164.8	122.8	87.2	61.4	38.8	29.1	29.1	29.1
152.5°	271.4	222.9	177.7	135.7	96.9	67.8	45.2	29.1	22.6	22.6	22.6
155°	213.2	174.4	138.9	103.4	74.3	51.7	35.5	22.6	16.2	16.2	16.2
157.5°	161.5	132.4	103.4	74.3	54.9	38.8	25.8	16.2	12.9	12.9	12.9
160°	113.1	90.5	71.1	51.7	35.5	25.8	16.2	9.7	6.5	6.5	6.5
162.5°	71.1	58.1	45.2	29.1	22.6	16.2	9.7	6.5	3.2	3.2	3.2
165°	32.3	29.1	19.4	12.9	9.7	6.5	3.2	3.2	0.0	0.0	0.0
167.5°	9.7	6.5	6.5	3.2	3.2	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)