

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: P691213

Luminaire Tested: **CRTK2-C015-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691213
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-C015-5TLD-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: 3702 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B2 - U3 - G1

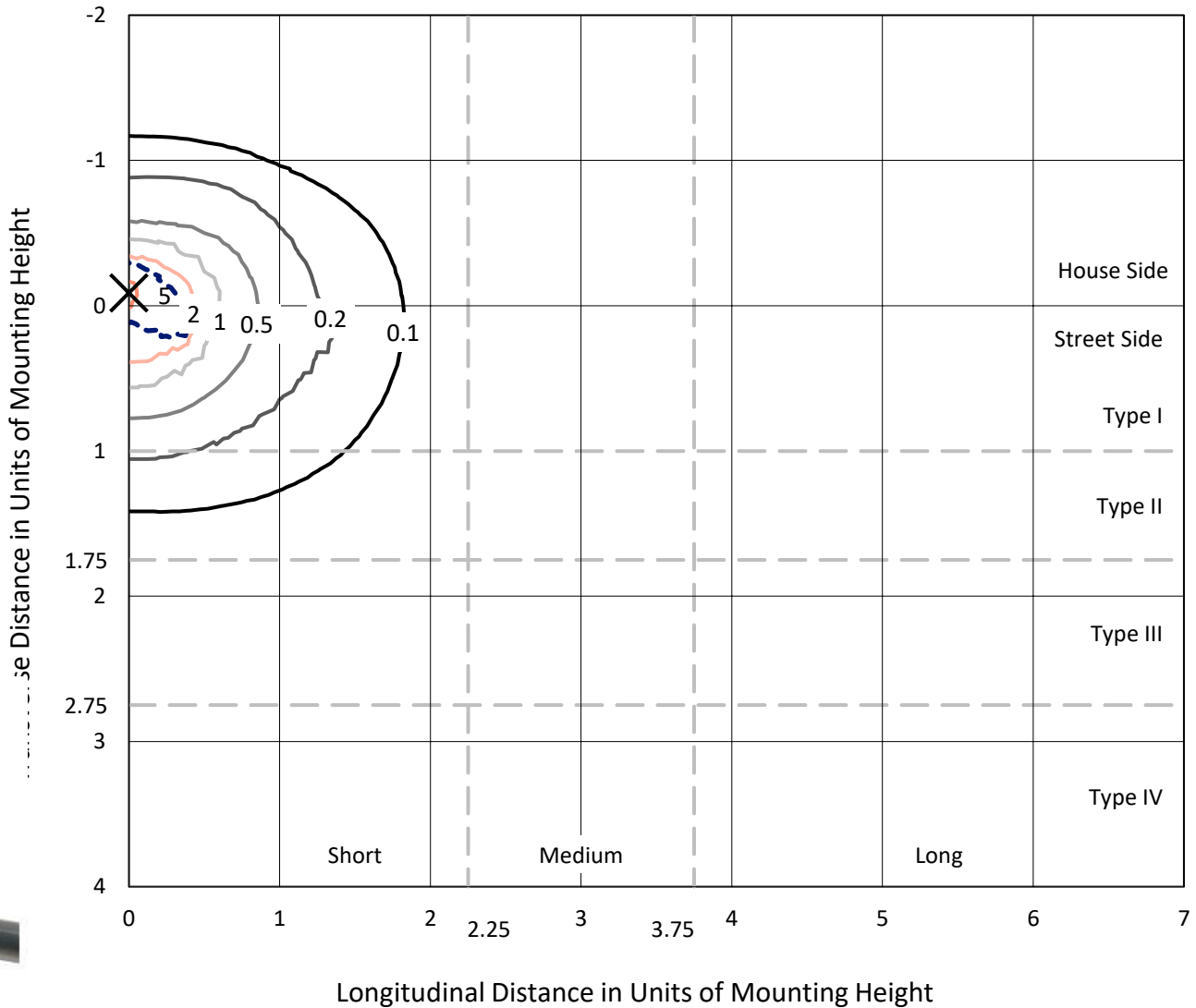
Input Watts (W): 32.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

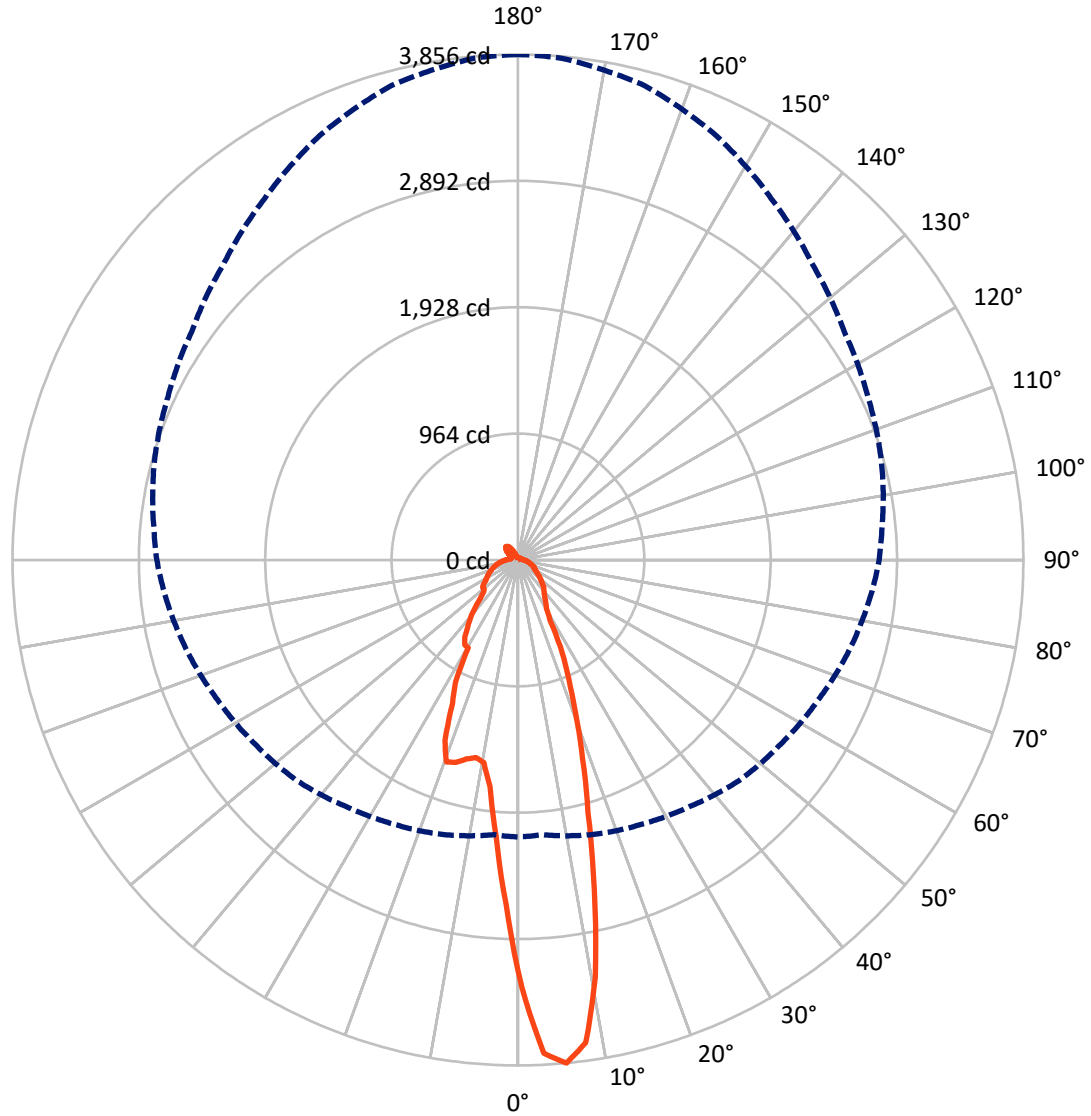
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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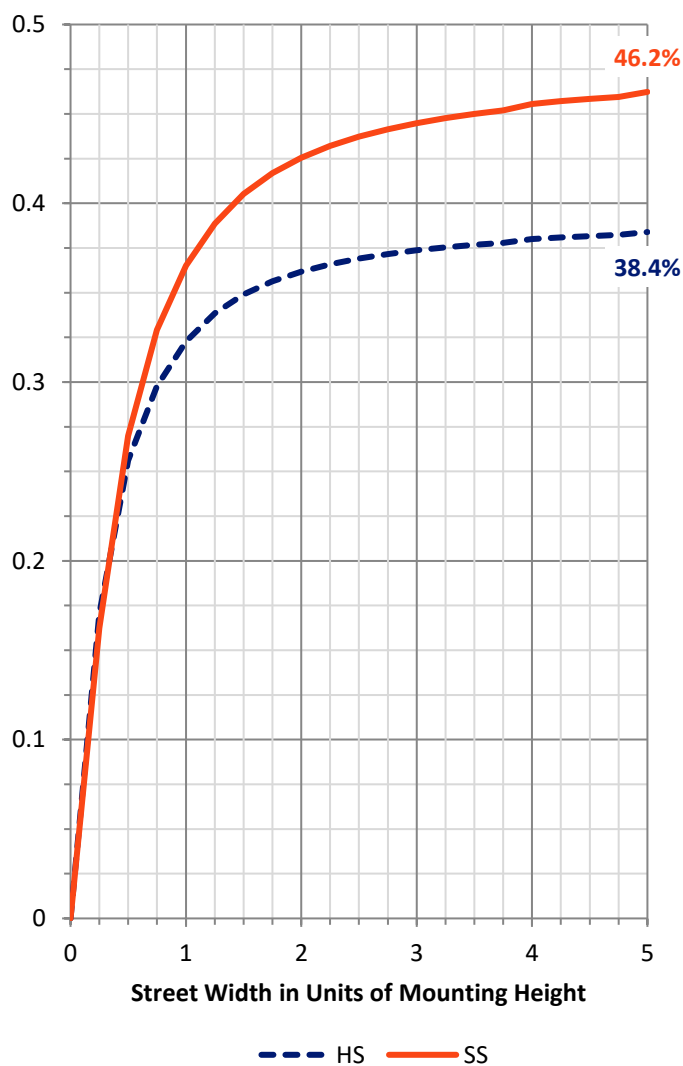
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1458.9	171.3	1630.2
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	1753.4	318.4	2071.8
	% Fixture	47.4	8.6	56.0
Total	Lumens	3212.3	489.7	3702.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.9	6.8
10°-20°	534.5	14.4
20°-30°	581.7	15.7
30°-40°	425.8	11.5
40°-50°	358.0	9.7
50°-60°	363.6	9.8
60°-70°	309.1	8.3
70°-80°	230.6	6.2
80°-90°	157.0	4.2
90°-100°	94.3	2.5
100°-110°	54.0	1.5
110°-120°	49.8	1.3
120°-130°	72.3	2.0
130°-140°	99.4	2.7
140°-150°	82.3	2.2
150°-160°	33.5	0.9
160°-170°	4.2	0.1
170°-180°	0.0	0.0
0°-90°	3212.3	86.8
0°-180°	3702.0	100.0

Coefficient of Utilization



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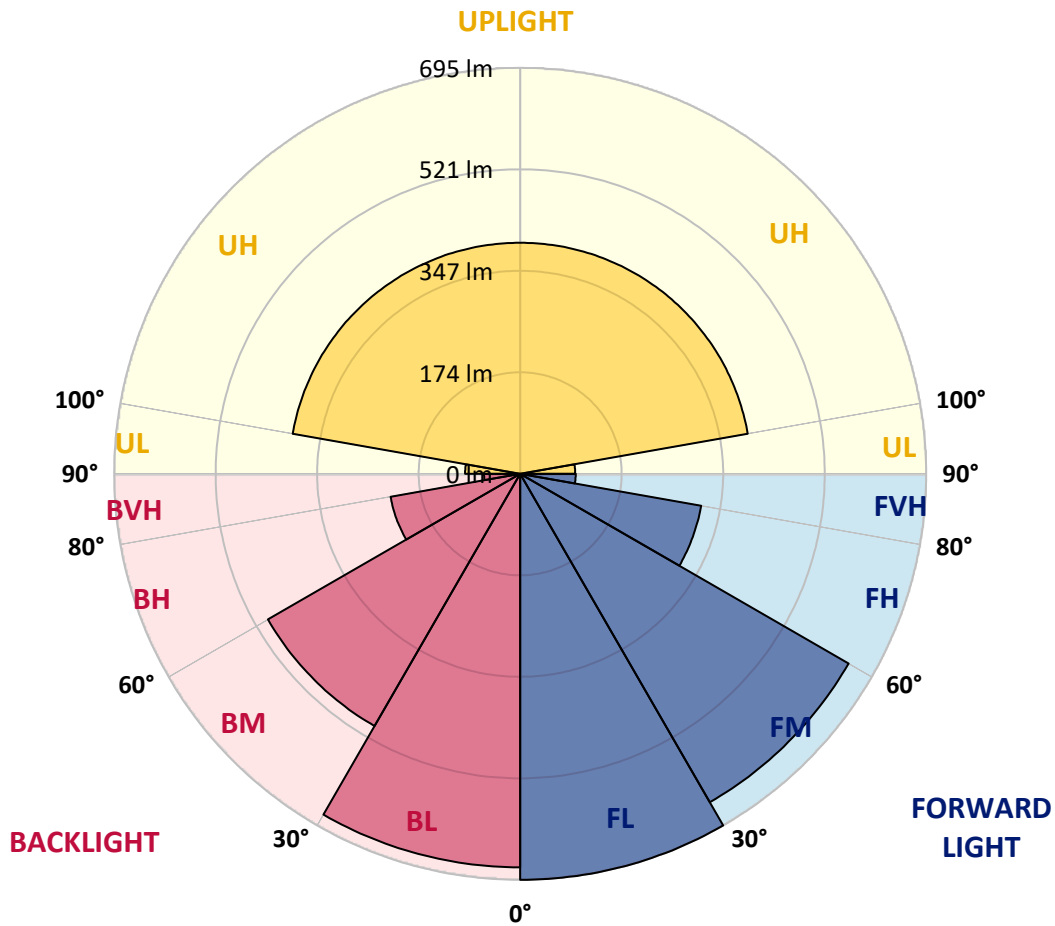
CATALOG NUMBER: CRTK2-C015-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	694.8	18.8			
FM (30°-60°)	649.0	17.5			
FH (60°-80°)	314.5	8.5			G0/660
FVH (80°-90°)	95.1	2.6			G1/100
BL (0°-30°)	673.4	18.2	B2/1000		
BM (30°-60°)	498.4	13.5	B1/1000		
BH (60°-80°)	225.2	6.1	B1/500		G1/500
BVH (80°-90°)	61.9	1.7			G1/100
UL (90°-100°)	94.3	2.5		U3/500	
UH (100°-180°)	395.4	10.7		U3/500	

BUG Rating: B2-U3-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3254.3	3254.3	3254.3	3254.3	3254.3	3254.3	3254.3	3254.3	3254.3	3254.3	3254.3
2.5°	2624.6	2619.6	2655.9	2664.1	2667.4	2705.3	2756.5	2791.1	2853.7	2914.7	2939.4
5°	2113.5	2103.6	2169.6	2225.6	2293.2	2382.2	2448.2	2527.3	2621.3	2711.9	2754.8
7.5°	1742.6	1755.8	1849.7	1965.1	2073.9	2179.4	2260.2	2327.8	2382.2	2439.9	2451.5
10°	1567.8	1579.4	1671.7	1782.1	1882.7	1989.9	2059.1	2116.8	2151.4	2194.3	2209.1
12.5°	1539.8	1548.0	1610.7	1688.2	1764.0	1861.3	1948.6	2012.9	2052.5	2087.1	2090.4
15°	1567.8	1571.1	1609.0	1660.1	1726.1	1806.9	1907.4	1980.0	2024.5	2039.3	2036.0
17.5°	1614.0	1614.0	1632.1	1675.0	1737.6	1815.1	1910.7	1984.9	2031.1	2037.7	2024.5
20°	1633.8	1637.1	1648.6	1696.4	1752.5	1823.3	1919.0	1981.6	2017.9	1999.7	1976.7
22.5°	1485.4	1478.8	1510.1	1610.7	1736.0	1862.9	1953.6	2024.5	2044.3	1983.3	1933.8
25°	1201.8	1205.1	1224.9	1274.4	1371.6	1488.7	1689.8	1905.8	2055.8	2032.7	1958.5
27.5°	1048.5	1038.6	1043.6	1051.8	1038.6	1013.9	1037.0	1032.0	1028.7	1088.1	1094.7
30°	769.9	771.5	779.8	794.6	825.9	872.1	921.6	949.6	974.3	1020.5	1013.9
32.5°	764.9	766.6	771.5	784.7	801.2	832.5	863.9	875.4	901.8	939.7	928.2
35°	715.5	710.5	723.7	735.3	740.2	753.4	778.1	794.6	811.1	837.5	830.9
37.5°	634.7	636.4	662.7	680.9	685.8	704.0	727.0	740.2	758.4	781.4	769.9
40°	565.5	567.1	598.4	618.2	629.8	654.5	689.1	705.6	735.3	753.4	740.2
42.5°	486.3	492.9	514.4	537.4	544.0	558.9	582.0	603.4	641.3	666.0	657.8
45°	405.6	408.9	423.7	446.8	456.7	473.1	494.6	514.4	544.0	563.8	562.2
47.5°	357.7	361.0	374.2	394.0	413.8	435.2	458.3	478.1	506.1	522.6	516.0
50°	338.0	341.3	357.7	380.8	405.6	433.6	461.6	483.0	509.4	519.3	511.1
52.5°	341.3	341.3	364.3	394.0	428.6	466.6	501.2	527.6	549.0	555.6	537.4
55°	323.1	328.1	352.8	394.0	446.8	506.1	565.5	621.5	652.8	646.2	611.6
57.5°	295.1	300.0	318.2	362.7	418.7	489.6	573.7	643.0	680.9	685.8	651.2
60°	278.6	281.9	298.4	333.0	382.5	440.2	516.0	572.1	614.9	628.1	603.4
62.5°	263.8	267.1	280.3	306.6	342.9	387.4	430.3	466.6	501.2	514.4	504.5
65°	247.3	248.9	262.1	285.2	314.9	352.8	389.1	415.4	443.5	451.7	440.2
67.5°	230.8	232.5	244.0	265.4	293.4	328.1	356.1	385.8	413.8	420.4	412.1
70°	216.0	217.6	227.5	247.3	272.0	305.0	331.4	351.2	379.2	385.8	375.9
72.5°	201.1	202.8	212.7	230.8	253.9	283.6	306.6	326.4	349.5	351.2	342.9
75°	186.3	187.9	196.2	212.7	232.5	262.1	283.6	300.0	319.8	319.8	309.9
77.5°	169.8	173.1	179.7	194.5	212.7	240.7	260.5	277.0	293.4	291.8	281.9
80°	155.0	156.6	163.2	176.4	192.9	219.3	239.0	252.2	267.1	265.4	257.2
82.5°	138.5	140.1	145.1	158.3	173.1	197.8	217.6	230.8	244.0	240.7	232.5
85°	122.0	123.6	130.2	140.1	155.0	178.0	196.2	209.4	219.3	216.0	209.4
87.5°	108.8	108.8	113.8	123.6	136.8	158.3	174.8	187.9	196.2	194.5	187.9
90°	94.0	95.6	98.9	107.2	118.7	136.8	153.3	164.9	173.1	169.8	163.2
92.5°	82.4	82.4	85.7	94.0	103.9	120.3	135.2	145.1	151.7	150.0	145.1
95°	70.9	72.5	74.2	80.8	89.0	102.2	115.4	125.3	131.9	130.2	126.9
97.5°	62.6	64.3	65.9	69.2	77.5	85.7	97.3	105.5	112.1	110.5	107.2
100°	57.7	57.7	57.7	61.0	65.9	72.5	80.8	87.4	90.7	92.3	89.0
102.5°	52.8	52.8	54.4	54.4	57.7	61.0	65.9	70.9	72.5	72.5	72.5
105°	51.1	51.1	52.8	52.8	54.4	56.1	59.3	61.0	62.6	62.6	61.0
107.5°	51.1	51.1	51.1	51.1	52.8	54.4	56.1	57.7	57.7	57.7	56.1
110°	52.8	52.8	52.8	52.8	52.8	54.4	54.4	56.1	56.1	54.4	54.4



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CATALOG NUMBER: CRTK2-C015-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	54.4	54.4	54.4	54.4	54.4	56.1	56.1	56.1	56.1	54.4	54.4
115°	57.7	57.7	57.7	59.3	59.3	59.3	59.3	59.3	59.3	57.7	56.1
117.5°	64.3	64.3	64.3	64.3	65.9	65.9	65.9	65.9	65.9	62.6	62.6
120°	72.5	70.9	72.5	74.2	75.8	75.8	75.8	75.8	75.8	72.5	70.9
122.5°	80.8	80.8	82.4	85.7	89.0	90.7	89.0	89.0	89.0	84.1	82.4
125°	90.7	90.7	95.6	102.2	107.2	108.8	107.2	107.2	107.2	102.2	98.9
127.5°	102.2	102.2	108.8	118.7	126.9	131.9	130.2	130.2	130.2	122.0	117.1
130°	113.8	113.8	123.6	136.8	150.0	153.3	155.0	156.6	156.6	146.7	140.1
132.5°	122.0	123.6	135.2	153.3	169.8	174.8	179.7	181.3	181.3	169.8	159.9
135°	130.2	131.9	146.7	168.2	186.3	197.8	202.8	204.4	206.1	192.9	181.3
137.5°	135.2	136.8	153.3	178.0	196.2	211.0	222.6	225.9	225.9	211.0	196.2
140°	135.2	136.8	155.0	178.0	197.8	216.0	229.2	235.7	235.7	220.9	207.7
142.5°	131.9	135.2	151.7	174.8	194.5	212.7	227.5	234.1	234.1	220.9	207.7
145°	125.3	126.9	143.4	163.2	183.0	204.4	220.9	227.5	227.5	214.3	201.1
147.5°	113.8	115.4	128.6	146.7	166.5	187.9	204.4	212.7	211.0	199.5	187.9
150°	98.9	98.9	110.5	125.3	145.1	164.9	181.3	189.6	189.6	178.0	168.2
152.5°	80.8	80.8	89.0	100.6	117.1	136.8	150.0	158.3	158.3	150.0	141.8
155°	62.6	62.6	69.2	77.5	90.7	105.5	115.4	123.6	123.6	117.1	110.5
157.5°	44.5	44.5	51.1	57.7	67.6	79.1	87.4	92.3	94.0	87.4	84.1
160°	29.7	29.7	33.0	37.9	46.2	54.4	59.3	64.3	65.9	61.0	59.3
162.5°	16.5	16.5	18.1	23.1	28.0	33.0	37.9	41.2	41.2	39.6	37.9
165°	4.9	4.9	6.6	8.2	11.5	14.8	16.5	18.1	19.8	19.8	18.1
167.5°	0.0	0.0	1.6	1.6	1.6	1.6	3.3	3.3	4.9	4.9	4.9
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°	3254.3	3254.3	3254.3	3254.3	3254.3	3254.3	3254.3	3254.3	3254.3	3254.3	3254.3
2.5°	2990.6	3082.9	3183.4	3280.7	3399.4	3523.0	3636.8	3714.3	3755.5	3768.7	3768.7
5°	2787.8	2871.9	2946.0	3038.4	3181.8	3368.1	3574.2	3745.6	3842.9	3854.4	3856.1
7.5°	2471.2	2540.5	2618.0	2700.4	2827.3	2993.8	3265.9	3542.8	3701.1	3730.8	3719.2
10°	2212.4	2255.3	2301.4	2332.8	2421.8	2545.4	2730.1	3002.1	3196.6	3219.7	3236.2
12.5°	2092.1	2098.7	2085.5	2092.1	2121.7	2179.4	2270.1	2426.7	2553.7	2575.1	2586.6
15°	2031.1	1998.1	1945.3	1895.9	1869.5	1874.5	1894.2	1958.5	1980.0	2016.2	1999.7
17.5°	2003.0	1928.9	1846.4	1750.8	1691.5	1630.5	1597.5	1585.9	1577.7	1579.4	1594.2
20°	1932.2	1848.1	1716.2	1590.9	1495.3	1411.2	1340.3	1289.2	1261.2	1248.0	1257.9
22.5°	1858.0	1727.7	1572.8	1437.6	1300.7	1193.6	1112.8	1038.6	997.4	1008.9	995.8
25°	1859.6	1665.1	1480.4	1302.4	1173.8	1032.0	903.4	825.9	758.4	771.5	789.7
27.5°	1172.2	1121.0	989.2	885.3	756.7	685.8	621.5	567.1	529.2	530.8	525.9
30°	994.1	941.3	875.4	793.0	695.7	613.3	539.1	476.4	440.2	430.3	428.6
32.5°	918.3	873.8	812.8	732.0	643.0	560.5	486.3	428.6	392.4	390.7	390.7
35°	817.7	776.5	725.4	656.1	580.3	504.5	435.2	385.8	356.1	356.1	354.4
37.5°	755.1	718.8	669.3	605.0	537.4	461.6	400.6	356.1	324.8	323.1	324.8
40°	722.1	684.2	636.4	575.4	507.8	435.2	377.5	331.4	308.3	306.6	305.0
42.5°	656.1	626.5	585.3	529.2	469.8	405.6	351.2	309.9	290.2	288.5	290.2
45°	557.2	535.8	507.8	466.6	417.1	362.7	314.9	283.6	263.8	263.8	263.8
47.5°	511.1	491.3	460.0	418.7	375.9	324.8	285.2	258.8	240.7	240.7	240.7
50°	499.5	474.8	433.6	387.4	341.3	296.7	260.5	234.1	220.9	219.3	220.9
52.5°	516.0	478.1	422.0	367.6	316.5	273.7	239.0	214.3	201.1	201.1	201.1
55°	575.4	506.1	431.9	362.7	301.7	253.9	219.3	194.5	181.3	179.7	181.3
57.5°	614.9	527.6	435.2	357.7	291.8	240.7	202.8	176.4	163.2	161.6	163.2
60°	580.3	509.4	420.4	344.6	283.6	230.8	191.2	164.9	151.7	150.0	150.0
62.5°	481.4	440.2	375.9	311.6	262.1	216.0	179.7	155.0	141.8	140.1	141.8
65°	427.0	390.7	334.7	283.6	240.7	201.1	169.8	148.4	135.2	135.2	135.2
67.5°	397.3	364.3	311.6	262.1	222.6	186.3	156.6	136.8	125.3	125.3	125.3
70°	362.7	329.7	281.9	237.4	201.1	169.8	143.4	123.6	113.8	112.1	113.8
72.5°	333.0	300.0	255.5	214.3	181.3	153.3	130.2	112.1	103.9	102.2	103.9
75°	300.0	268.7	225.9	189.6	161.6	136.8	117.1	100.6	94.0	92.3	92.3
77.5°	272.0	242.3	202.8	169.8	145.1	122.0	103.9	92.3	85.7	84.1	84.1
80°	247.3	219.3	181.3	151.7	128.6	108.8	94.0	82.4	75.8	75.8	75.8
82.5°	220.9	196.2	161.6	133.5	113.8	97.3	82.4	72.5	67.6	67.6	67.6
85°	199.5	174.8	141.8	118.7	98.9	84.1	72.5	64.3	59.3	59.3	59.3
87.5°	176.4	155.0	125.3	103.9	87.4	74.2	62.6	54.4	52.8	51.1	51.1
90°	153.3	133.5	107.2	89.0	74.2	62.6	52.8	46.2	44.5	42.9	42.9
92.5°	136.8	118.7	97.3	80.8	67.6	56.1	49.5	42.9	41.2	41.2	39.6
95°	118.7	103.9	85.7	72.5	61.0	52.8	46.2	41.2	39.6	39.6	37.9
97.5°	102.2	89.0	75.8	65.9	56.1	49.5	42.9	39.6	36.3	36.3	36.3
100°	85.7	75.8	65.9	56.1	51.1	44.5	39.6	36.3	34.6	33.0	33.0
102.5°	69.2	62.6	54.4	49.5	42.9	37.9	34.6	31.3	29.7	29.7	29.7
105°	59.3	54.4	49.5	44.5	39.6	34.6	31.3	28.0	26.4	26.4	26.4
107.5°	54.4	51.1	46.2	41.2	37.9	33.0	29.7	24.7	23.1	24.7	24.7
110°	52.8	49.5	44.5	41.2	36.3	33.0	29.7	23.1	21.4	23.1	23.1



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	52.8	49.5	46.2	41.2	37.9	33.0	29.7	23.1	21.4	21.4	21.4
115°	54.4	52.8	47.8	44.5	39.6	34.6	29.7	23.1	21.4	21.4	21.4
117.5°	61.0	57.7	52.8	47.8	42.9	36.3	31.3	23.1	21.4	21.4	21.4
120°	67.6	64.3	59.3	52.8	46.2	39.6	33.0	23.1	19.8	21.4	21.4
122.5°	79.1	74.2	67.6	59.3	51.1	42.9	33.0	24.7	18.1	21.4	21.4
125°	94.0	87.4	77.5	65.9	56.1	46.2	34.6	24.7	19.8	21.4	21.4
127.5°	110.5	102.2	89.0	74.2	61.0	47.8	36.3	24.7	19.8	19.8	21.4
130°	131.9	118.7	100.6	82.4	65.9	51.1	36.3	24.7	19.8	19.8	19.8
132.5°	150.0	133.5	110.5	89.0	69.2	52.8	36.3	24.7	18.1	18.1	18.1
135°	168.2	146.7	118.7	94.0	72.5	52.8	36.3	23.1	18.1	18.1	18.1
137.5°	183.0	155.0	125.3	95.6	72.5	51.1	34.6	21.4	16.5	16.5	16.5
140°	191.2	159.9	126.9	95.6	69.2	49.5	31.3	19.8	14.8	14.8	14.8
142.5°	191.2	158.3	125.3	92.3	65.9	46.2	28.0	16.5	13.2	13.2	13.2
145°	184.6	151.7	118.7	87.4	61.0	41.2	24.7	14.8	9.9	9.9	11.5
147.5°	173.1	140.1	108.8	79.1	54.4	34.6	21.4	11.5	8.2	8.2	8.2
150°	153.3	123.6	94.0	69.2	46.2	29.7	18.1	9.9	6.6	6.6	6.6
152.5°	128.6	102.2	79.1	57.7	37.9	23.1	13.2	8.2	4.9	4.9	4.9
155°	102.2	80.8	62.6	44.5	28.0	18.1	9.9	6.6	4.9	4.9	4.9
157.5°	75.8	61.0	46.2	33.0	21.4	13.2	8.2	4.9	3.3	3.3	3.3
160°	52.8	42.9	31.3	21.4	13.2	8.2	4.9	3.3	1.6	1.6	1.6
162.5°	34.6	26.4	19.8	13.2	8.2	4.9	3.3	1.6	1.6	1.6	1.6
165°	16.5	13.2	9.9	6.6	3.3	3.3	1.6	1.6	0.0	0.0	0.0
167.5°	4.9	3.3	1.6	1.6	1.6	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)