

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: P691245

Luminaire Tested: **CRTK2-C015-5TLD-U-T3-7050-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691245
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-C015-5TLD-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: 3776 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B2 - U3 - G2

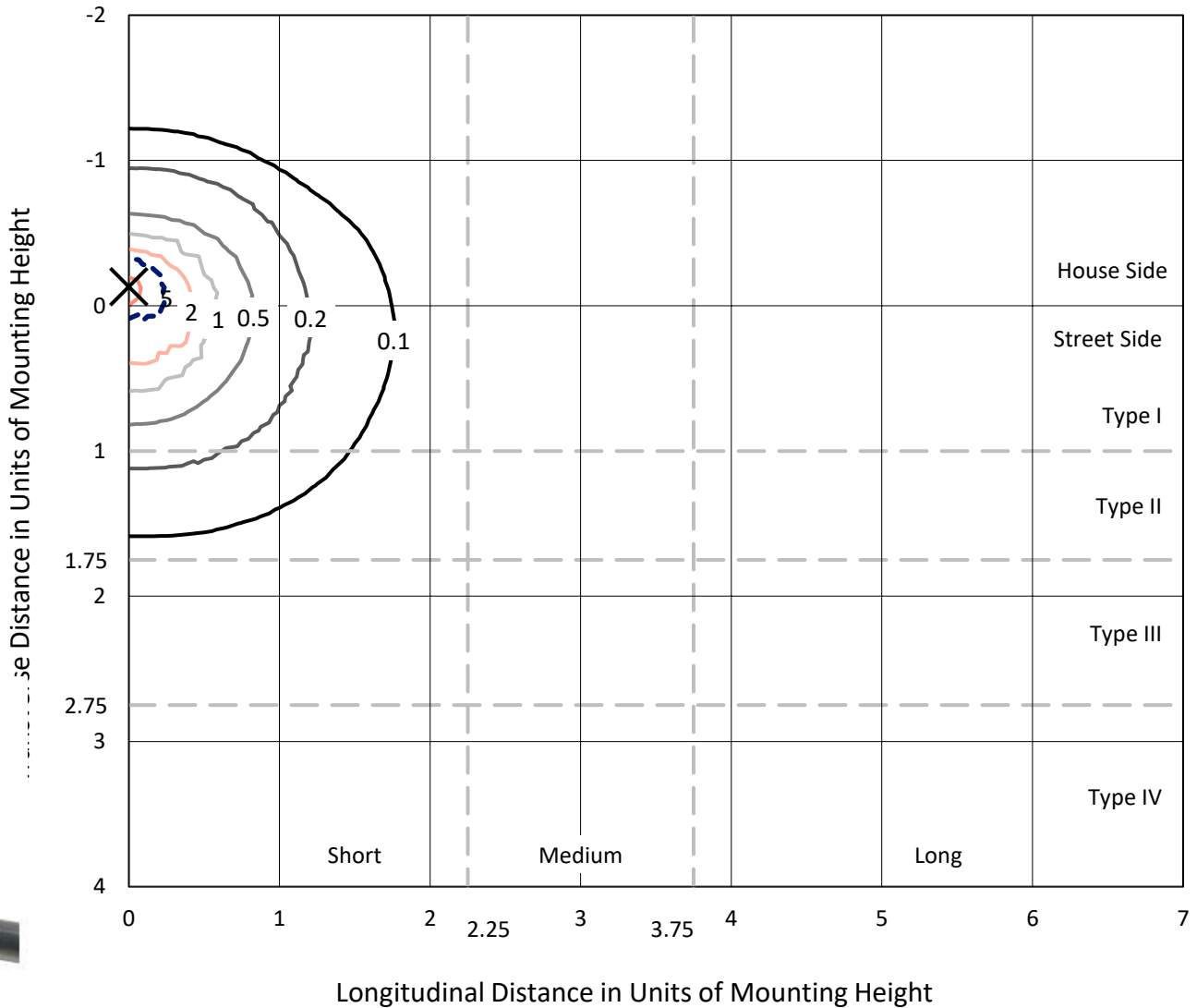
Input Watts (W): 32.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

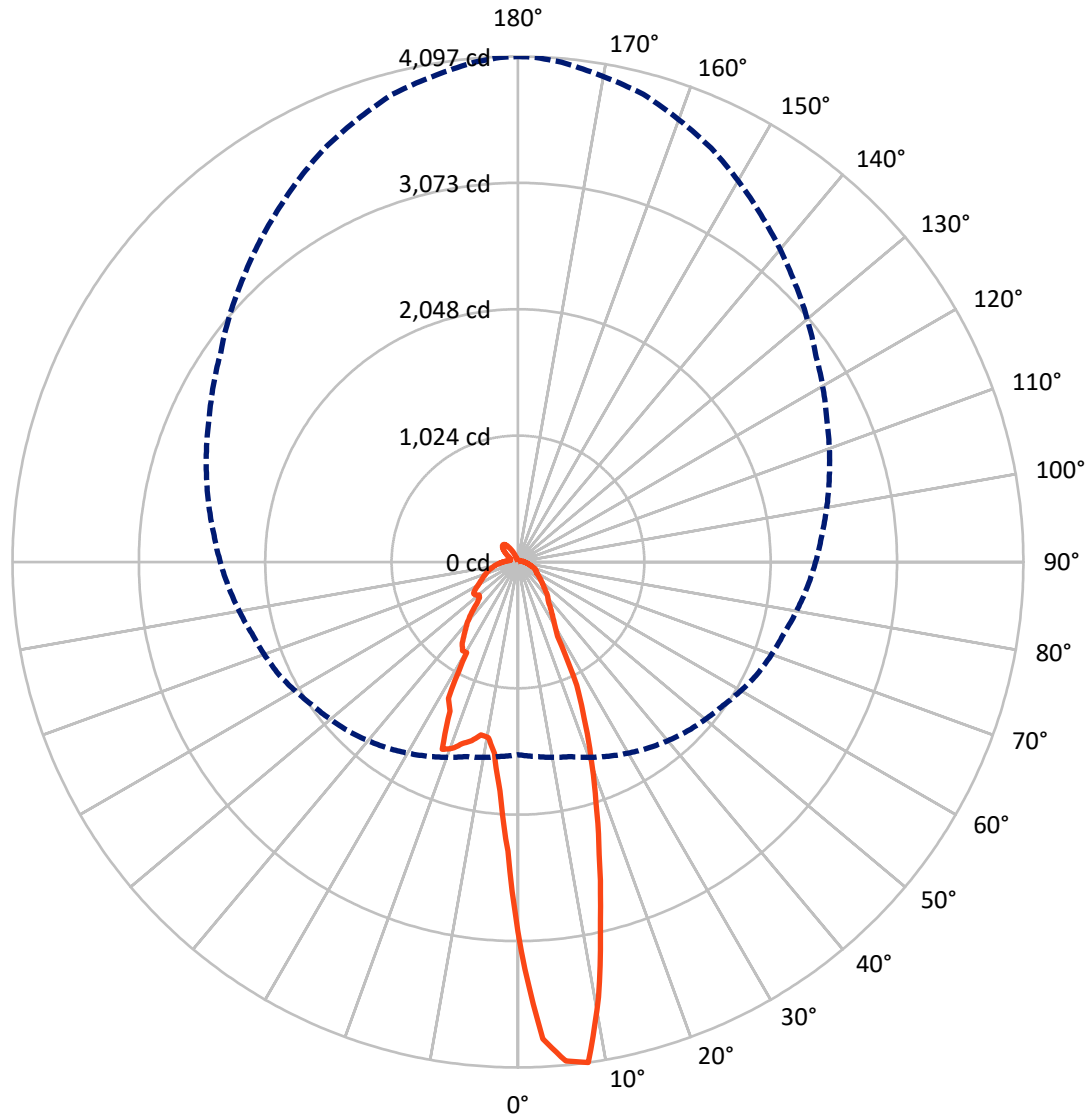
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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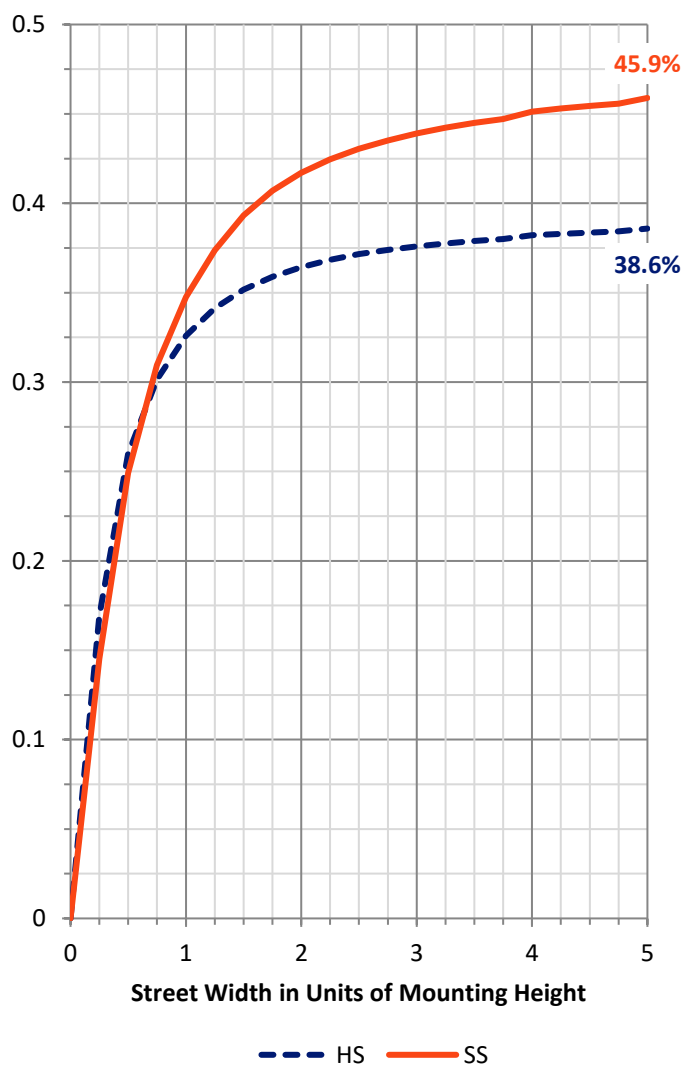
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1495.0	155.9	1650.9
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	1782.7	342.4	2125.1
	% Fixture	47.2	9.1	56.3
Total	Lumens	3277.7	498.3	3776.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.0	6.7
10°-20°	541.2	14.3
20°-30°	597.6	15.8
30°-40°	433.4	11.5
40°-50°	365.2	9.7
50°-60°	372.8	9.9
60°-70°	317.7	8.4
70°-80°	236.9	6.3
80°-90°	159.9	4.2
90°-100°	95.6	2.5
100°-110°	55.0	1.5
110°-120°	51.4	1.4
120°-130°	74.8	2.0
130°-140°	101.7	2.7
140°-150°	82.8	2.2
150°-160°	33.0	0.9
160°-170°	4.0	0.1
170°-180°	0.0	0.0
0°-90°	3277.7	86.8
0°-180°	3776.0	100.0

Coefficient of Utilization



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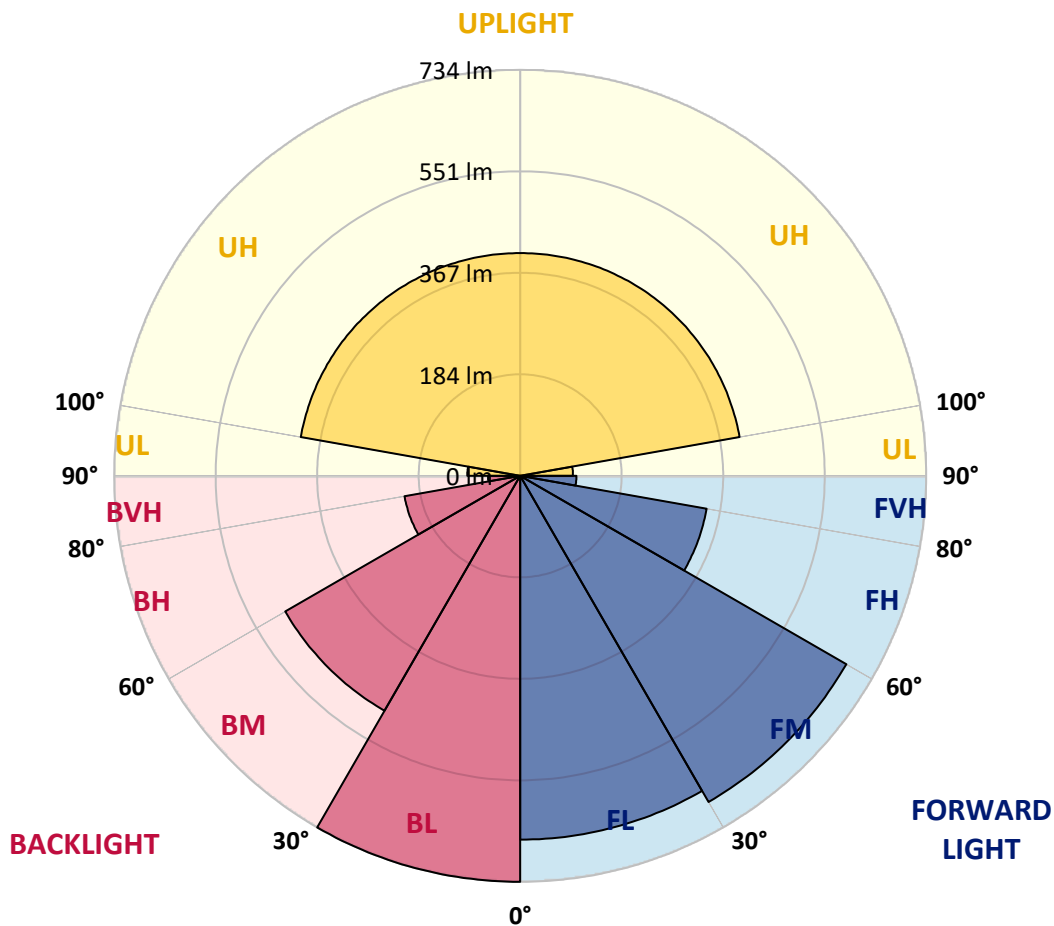
CATALOG NUMBER: CRTK2-C015-5TLD-U-T3-7050-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	657.8	17.4			
FM (30°-60°)	681.0	18.0			
FH (60°-80°)	342.3	9.1			G0/660
FVH (80°-90°)	101.7	2.7			G2/225
BL (0°-30°)	734.0	19.4	B2/1000		
BM (30°-60°)	490.5	13.0	B1/1000		
BH (60°-80°)	212.3	5.6	B1/500		G1/500
BVH (80°-90°)	58.2	1.5			G1/100
UL (90°-100°)	95.6	2.5		U3/500	
UH (100°-180°)	402.7	10.7		U3/500	

BUG Rating: B2-U3-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3157.5	3157.5	3157.5	3157.5	3157.5	3157.5	3157.5	3157.5	3157.5	3157.5	3157.5
2.5°	2343.4	2397.8	2402.7	2462.0	2506.5	2547.7	2577.4	2663.1	2750.4	2832.8	2880.6
5°	1860.5	1886.9	1934.7	1999.0	2081.4	2145.6	2237.9	2358.2	2473.6	2618.6	2689.4
7.5°	1562.3	1582.0	1633.1	1736.9	1840.8	1939.6	2028.6	2144.0	2233.0	2353.3	2412.6
10°	1443.6	1455.1	1498.0	1570.5	1669.4	1751.8	1829.2	1916.6	1995.7	2106.1	2148.9
12.5°	1432.1	1437.0	1471.6	1522.7	1580.4	1647.9	1712.2	1786.4	1870.4	1957.8	1990.7
15°	1494.7	1491.4	1502.9	1532.6	1565.5	1618.3	1677.6	1745.2	1825.9	1890.2	1916.6
17.5°	1539.2	1537.5	1559.0	1572.1	1603.5	1634.8	1694.1	1746.8	1825.9	1877.0	1891.8
20°	1603.5	1606.7	1613.3	1638.1	1651.2	1672.7	1708.9	1740.2	1807.8	1837.5	1834.2
22.5°	1638.1	1636.4	1664.4	1722.1	1736.9	1748.5	1755.1	1768.2	1806.1	1804.5	1779.8
25°	1328.2	1331.5	1338.1	1387.6	1450.2	1552.4	1636.4	1768.2	1839.1	1812.7	1760.0
27.5°	1240.9	1231.0	1196.4	1168.4	1084.3	1028.3	975.6	952.5	964.0	983.8	1038.2
30°	845.4	847.0	850.3	855.3	863.5	884.9	899.8	901.4	913.0	945.9	934.4
32.5°	847.0	848.7	843.7	848.7	845.4	853.6	852.0	845.4	855.3	884.9	873.4
35°	796.0	792.7	796.0	797.6	779.5	772.9	771.2	766.3	772.9	787.7	777.8
37.5°	716.9	715.2	730.0	738.3	723.4	723.4	720.2	713.6	718.5	731.7	718.5
40°	647.6	649.3	670.7	683.9	679.0	683.9	688.8	687.2	698.7	703.7	687.2
42.5°	571.8	568.5	590.0	599.9	590.0	593.3	591.6	593.3	616.3	626.2	614.7
45°	477.9	482.8	492.7	505.9	504.3	509.2	507.6	510.9	525.7	530.6	522.4
47.5°	425.2	428.5	440.0	454.8	463.1	471.3	471.3	473.0	482.8	484.5	476.3
50°	413.6	416.9	431.8	448.2	461.4	471.3	476.3	474.6	479.6	476.3	464.7
52.5°	433.4	433.4	456.5	476.3	492.7	510.9	517.5	510.9	510.9	497.7	479.6
55°	441.6	443.3	471.3	505.9	537.2	570.2	591.6	590.0	588.3	566.9	533.9
57.5°	415.3	420.2	448.2	487.8	530.6	583.4	614.7	619.6	619.6	591.6	555.4
60°	377.4	380.7	402.1	435.1	477.9	517.5	550.4	553.7	563.6	548.8	515.8
62.5°	346.1	349.4	367.5	392.2	423.5	448.2	458.1	458.1	463.1	458.1	435.1
65°	323.0	324.6	339.5	360.9	382.3	402.1	412.0	408.7	415.3	408.7	390.6
67.5°	301.6	301.6	314.8	331.2	351.0	374.1	380.7	384.0	390.6	382.3	365.8
70°	280.2	281.8	295.0	308.2	326.3	342.8	349.4	351.0	359.3	349.4	337.8
72.5°	262.0	262.0	273.6	286.7	299.9	316.4	321.3	324.6	329.6	319.7	309.8
75°	240.6	242.2	252.1	263.7	275.2	291.7	296.6	298.3	303.2	291.7	281.8
77.5°	220.8	222.5	230.7	240.6	252.1	265.3	270.3	273.6	275.2	265.3	255.4
80°	201.0	202.7	209.3	219.2	229.1	242.2	245.5	247.2	250.5	239.0	232.4
82.5°	182.9	182.9	187.9	196.1	206.0	217.5	222.5	224.1	225.8	215.9	209.3
85°	161.5	161.5	166.4	174.7	182.9	194.5	199.4	201.0	201.0	192.8	186.2
87.5°	143.4	143.4	146.7	153.3	159.9	171.4	176.3	179.6	178.0	171.4	164.8
90°	125.2	125.2	128.5	133.5	140.1	150.0	154.9	156.6	156.6	148.3	143.4
92.5°	108.8	108.8	112.1	117.0	121.9	130.2	135.1	138.4	138.4	131.8	126.9
95°	93.9	93.9	95.6	100.5	105.5	112.1	115.4	118.7	118.7	115.4	110.4
97.5°	80.7	80.7	82.4	85.7	89.0	93.9	97.2	100.5	100.5	98.9	95.6
100°	70.9	70.9	70.9	72.5	75.8	77.5	80.7	84.0	84.0	82.4	80.7
102.5°	64.3	64.3	64.3	64.3	64.3	65.9	65.9	67.6	67.6	67.6	65.9
105°	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	59.3	57.7	56.0
107.5°	61.0	59.3	59.3	59.3	59.3	57.7	57.7	57.7	56.0	54.4	52.7
110°	61.0	61.0	61.0	61.0	59.3	57.7	57.7	56.0	54.4	52.7	51.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	64.3	64.3	64.3	62.6	61.0	61.0	59.3	57.7	56.0	52.7	51.1
115°	69.2	69.2	69.2	69.2	67.6	64.3	62.6	61.0	57.7	56.0	54.4
117.5°	77.5	77.5	77.5	77.5	74.2	72.5	69.2	67.6	64.3	61.0	59.3
120°	87.3	87.3	89.0	89.0	87.3	84.0	79.1	77.5	74.2	69.2	65.9
122.5°	102.2	100.5	103.8	103.8	103.8	100.5	93.9	90.6	87.3	80.7	77.5
125°	117.0	117.0	120.3	123.6	125.2	120.3	113.7	108.8	103.8	95.6	90.6
127.5°	133.5	133.5	140.1	146.7	150.0	145.0	136.8	131.8	125.2	113.7	107.1
130°	150.0	150.0	159.9	169.7	174.7	171.4	163.1	156.6	148.3	133.5	125.2
132.5°	164.8	164.8	176.3	189.5	196.1	194.5	186.2	179.6	173.0	154.9	143.4
135°	176.3	178.0	192.8	207.6	215.9	217.5	209.3	201.0	192.8	173.0	159.9
137.5°	182.9	186.2	201.0	219.2	227.4	232.4	227.4	219.2	209.3	187.9	173.0
140°	184.6	186.2	202.7	220.8	229.1	235.7	235.7	225.8	217.5	196.1	179.6
142.5°	179.6	181.3	197.8	214.2	222.5	230.7	232.4	224.1	215.9	196.1	179.6
145°	168.1	171.4	186.2	199.4	210.9	219.2	222.5	217.5	207.6	189.5	174.7
147.5°	153.3	154.9	168.1	179.6	191.2	201.0	206.0	201.0	192.8	176.3	163.1
150°	130.2	131.8	141.7	151.6	164.8	174.7	181.3	178.0	171.4	158.2	145.0
152.5°	105.5	105.5	113.7	121.9	133.5	143.4	150.0	148.3	143.4	131.8	121.9
155°	80.7	80.7	85.7	92.3	102.2	108.8	115.4	115.4	112.1	103.8	95.6
157.5°	57.7	57.7	62.6	67.6	74.2	80.7	85.7	85.7	84.0	77.5	72.5
160°	37.9	37.9	41.2	44.5	51.1	54.4	59.3	59.3	57.7	54.4	51.1
162.5°	19.8	19.8	23.1	24.7	29.7	33.0	36.3	37.9	37.9	34.6	33.0
165°	6.6	6.6	6.6	8.2	11.5	14.8	16.5	18.1	18.1	16.5	16.5
167.5°	1.6	1.6	1.6	1.6	1.6	1.6	3.3	4.9	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°	178°	180°
0°	3157.5	3157.5	3157.5	3157.5	3157.5	3157.5	3157.5	3157.5	3157.5	3157.5	3157.5
2.5°	2931.7	3081.7	3210.2	3345.3	3495.3	3622.2	3750.7	3821.6	3882.6	3871.0	3871.0
5°	2758.7	2908.6	3065.2	3230.0	3432.7	3640.3	3838.1	3979.8	4053.9	4065.5	4063.8
7.5°	2471.9	2612.0	2760.3	2943.2	3180.5	3434.3	3702.9	3925.4	4065.5	4091.8	4096.8
10°	2188.5	2293.9	2419.2	2544.4	2757.0	2989.4	3230.0	3407.9	3544.7	3564.5	3587.6
12.5°	2018.7	2076.4	2157.2	2244.5	2382.9	2552.7	2750.4	2852.6	2939.9	2949.8	2971.2
15°	1931.4	1959.4	1979.2	2010.5	2092.9	2198.4	2289.0	2389.5	2425.8	2450.5	2462.0
17.5°	1896.8	1893.5	1873.7	1873.7	1880.3	1919.9	1977.5	2012.1	2035.2	2046.7	2050.0
20°	1825.9	1796.3	1756.7	1704.0	1676.0	1662.8	1677.6	1685.8	1679.3	1671.0	1685.8
22.5°	1751.8	1689.1	1618.3	1557.3	1484.8	1440.3	1397.5	1382.6	1364.5	1376.0	1376.0
25°	1728.7	1618.3	1504.6	1402.4	1293.6	1219.5	1140.4	1112.4	1084.3	1107.4	1107.4
27.5°	1021.7	1021.7	957.5	871.8	777.8	738.3	707.0	688.8	677.3	682.2	682.2
30°	914.6	871.8	832.2	777.8	705.3	657.5	616.3	591.6	580.1	576.8	580.1
32.5°	848.7	815.7	767.9	713.6	649.3	596.6	550.4	525.7	507.6	510.9	512.5
35°	759.7	725.1	683.9	632.8	578.4	529.0	487.8	463.1	446.6	446.6	448.2
37.5°	703.7	669.1	629.5	583.4	530.6	482.8	444.9	415.3	400.5	398.8	398.8
40°	669.1	634.5	598.2	552.1	502.6	453.2	415.3	388.9	370.8	370.8	372.4
42.5°	606.4	573.5	542.2	501.0	456.5	413.6	377.4	354.3	336.2	332.9	336.2
45°	510.9	492.7	468.0	440.0	402.1	367.5	334.5	314.8	299.9	299.9	298.3
47.5°	468.0	449.9	423.5	395.5	364.2	329.6	303.2	285.1	271.9	271.9	271.9
50°	451.5	431.8	398.8	367.5	331.2	301.6	278.5	260.4	250.5	250.5	248.8
52.5°	459.8	428.5	385.6	341.1	306.5	276.9	253.8	235.7	227.4	227.4	225.8
55°	504.3	448.2	385.6	331.2	290.0	257.1	234.0	214.2	206.0	206.0	206.0
57.5°	522.4	459.8	382.3	321.3	275.2	240.6	212.6	194.5	186.2	186.2	184.6
60°	489.4	436.7	365.8	308.2	263.7	229.1	202.7	184.6	174.7	174.7	173.0
62.5°	416.9	379.0	324.6	281.8	247.2	215.9	192.8	174.7	166.4	166.4	166.4
65°	374.1	341.1	298.3	260.4	229.1	202.7	181.3	166.4	158.2	158.2	158.2
67.5°	349.4	321.3	278.5	242.2	210.9	186.2	166.4	153.3	146.7	145.0	146.7
70°	323.0	293.3	253.8	219.2	191.2	168.1	150.0	136.8	130.2	130.2	130.2
72.5°	295.0	267.0	229.1	197.8	169.7	151.6	133.5	121.9	115.4	115.4	113.7
75°	268.6	240.6	204.3	174.7	151.6	133.5	118.7	108.8	102.2	102.2	102.2
77.5°	243.9	217.5	182.9	156.6	135.1	120.3	105.5	97.2	92.3	92.3	90.6
80°	220.8	196.1	163.1	140.1	120.3	107.1	93.9	87.3	82.4	82.4	82.4
82.5°	197.8	174.7	145.0	123.6	107.1	93.9	84.0	77.5	74.2	72.5	74.2
85°	176.3	154.9	128.5	108.8	93.9	82.4	74.2	67.6	64.3	64.3	64.3
87.5°	156.6	136.8	113.7	95.6	82.4	72.5	64.3	59.3	57.7	56.0	56.0
90°	135.1	117.0	97.2	82.4	70.9	62.6	54.4	51.1	47.8	47.8	47.8
92.5°	120.3	105.5	87.3	74.2	64.3	57.7	51.1	47.8	44.5	44.5	44.5
95°	105.5	92.3	77.5	67.6	59.3	52.7	47.8	44.5	42.8	42.8	42.8
97.5°	90.6	80.7	69.2	61.0	54.4	49.4	44.5	41.2	39.6	39.6	39.6
100°	75.8	69.2	61.0	54.4	49.4	44.5	39.6	37.9	36.3	36.3	36.3
102.5°	62.6	57.7	51.1	46.1	41.2	37.9	34.6	33.0	31.3	31.3	31.3
105°	54.4	51.1	46.1	41.2	37.9	34.6	31.3	28.0	28.0	28.0	28.0
107.5°	51.1	46.1	42.8	39.6	36.3	31.3	29.7	26.4	24.7	24.7	24.7
110°	49.4	46.1	42.8	37.9	34.6	31.3	28.0	24.7	23.1	23.1	23.1



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	49.4	46.1	42.8	39.6	36.3	31.3	29.7	23.1	21.4	21.4	21.4
115°	52.7	49.4	44.5	41.2	36.3	33.0	29.7	23.1	21.4	21.4	21.4
117.5°	56.0	52.7	47.8	44.5	39.6	34.6	29.7	23.1	21.4	21.4	21.4
120°	64.3	59.3	52.7	47.8	42.8	36.3	31.3	23.1	19.8	21.4	21.4
122.5°	72.5	67.6	59.3	52.7	46.1	39.6	31.3	23.1	19.8	21.4	21.4
125°	85.7	77.5	67.6	59.3	49.4	41.2	33.0	23.1	18.1	19.8	21.4
127.5°	100.5	90.6	77.5	65.9	54.4	42.8	33.0	23.1	18.1	19.8	19.8
130°	117.0	103.8	87.3	70.9	57.7	44.5	33.0	23.1	18.1	19.8	19.8
132.5°	133.5	115.4	95.6	77.5	61.0	46.1	33.0	21.4	18.1	18.1	18.1
135°	146.7	125.2	102.2	80.7	62.6	46.1	31.3	21.4	16.5	16.5	16.5
137.5°	158.2	133.5	107.1	82.4	62.6	44.5	29.7	19.8	14.8	14.8	14.8
140°	164.8	136.8	108.8	80.7	59.3	42.8	28.0	18.1	13.2	13.2	13.2
142.5°	164.8	135.1	105.5	79.1	56.0	39.6	24.7	14.8	11.5	11.5	11.5
145°	158.2	128.5	100.5	74.2	51.1	34.6	21.4	13.2	9.9	9.9	9.9
147.5°	148.3	118.7	92.3	67.6	46.1	29.7	18.1	11.5	8.2	8.2	8.2
150°	131.8	105.5	80.7	57.7	39.6	24.7	14.8	9.9	6.6	6.6	6.6
152.5°	110.4	87.3	67.6	47.8	33.0	19.8	13.2	6.6	4.9	4.9	4.9
155°	87.3	69.2	52.7	37.9	24.7	14.8	9.9	6.6	3.3	3.3	3.3
157.5°	65.9	51.1	39.6	28.0	18.1	11.5	6.6	4.9	3.3	3.3	3.3
160°	46.1	36.3	26.4	18.1	11.5	8.2	4.9	3.3	1.6	1.6	1.6
162.5°	29.7	23.1	16.5	11.5	6.6	4.9	3.3	1.6	1.6	1.6	0.0
165°	14.8	11.5	8.2	4.9	3.3	1.6	1.6	1.6	0.0	0.0	0.0
167.5°	3.3	3.3	3.3	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)