

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: P691014

Luminaire Tested: **CRTK2-C013-5TLD-U-T2-7030-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691014
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-C013-5TLD-U-T2-7030-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K LED WITH TYPE II OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2862 lumens
Efficiency: N/A
Efficacy: 123.4 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): 23.2
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



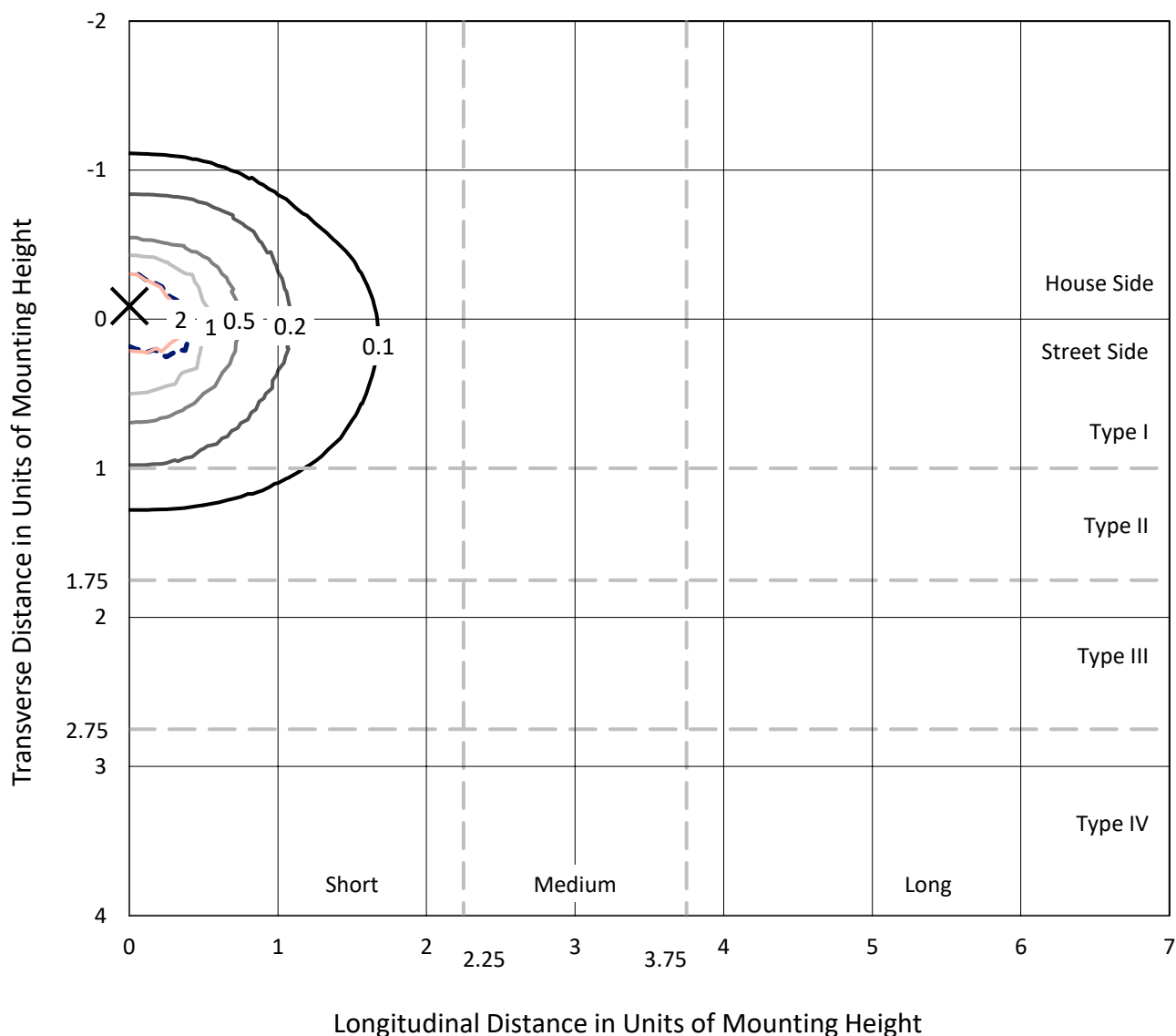
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

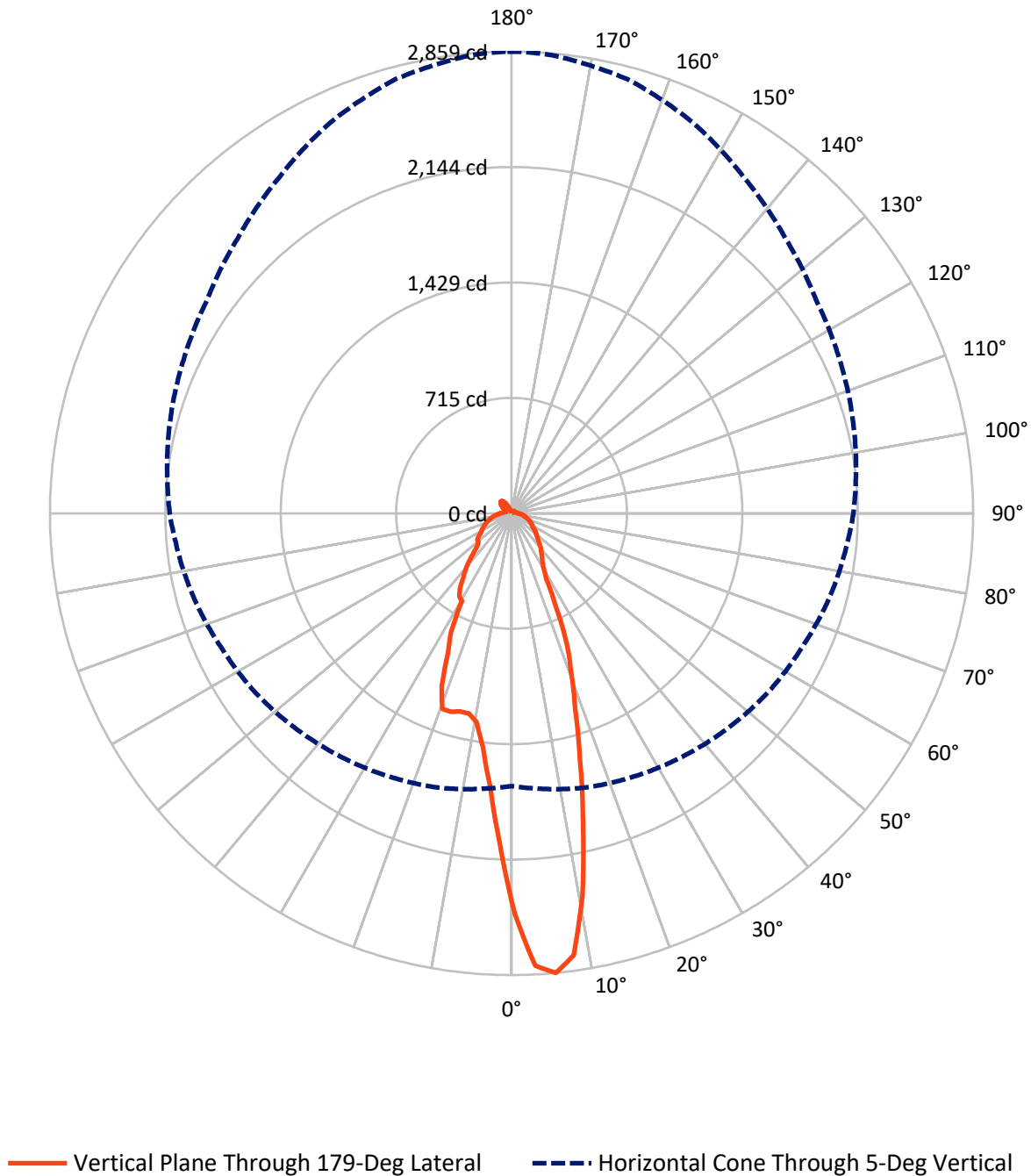


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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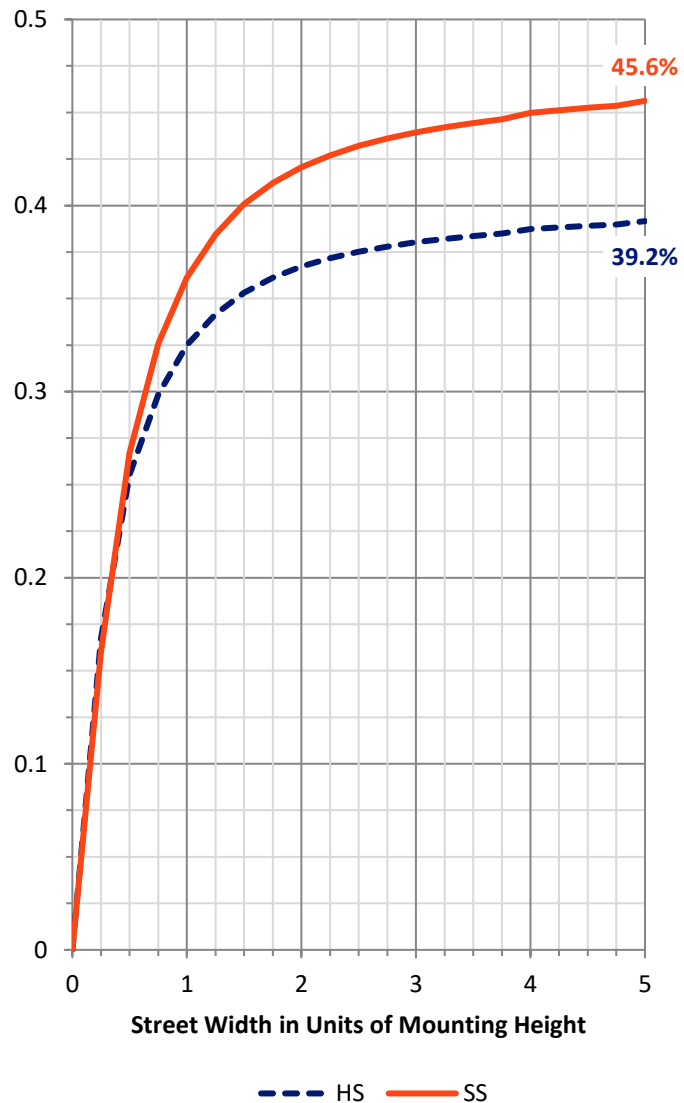
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1151.7	140.0	1291.7
	% Fixture	40.2	4.9	45.1
Street Side	Lumens	1336.8	233.5	1570.3
	% Fixture	46.7	8.2	54.9
Total	Lumens	2488.5	373.5	2862.0
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.2	6.8
10°-20°	414.3	14.5
20°-30°	450.0	15.7
30°-40°	333.1	11.6
40°-50°	279.0	9.7
50°-60°	280.5	9.8
60°-70°	238.8	8.3
70°-80°	178.4	6.2
80°-90°	120.4	4.2
90°-100°	72.0	2.5
100°-110°	41.6	1.5
110°-120°	38.3	1.3
120°-130°	55.3	1.9
130°-140°	75.7	2.6
140°-150°	62.4	2.2
150°-160°	25.1	0.9
160°-170°	3.1	0.1
170°-180°	0.0	0.0
0°-90°	2488.5	86.9
0°-180°	2862.0	100.0

Coefficient of Utilization



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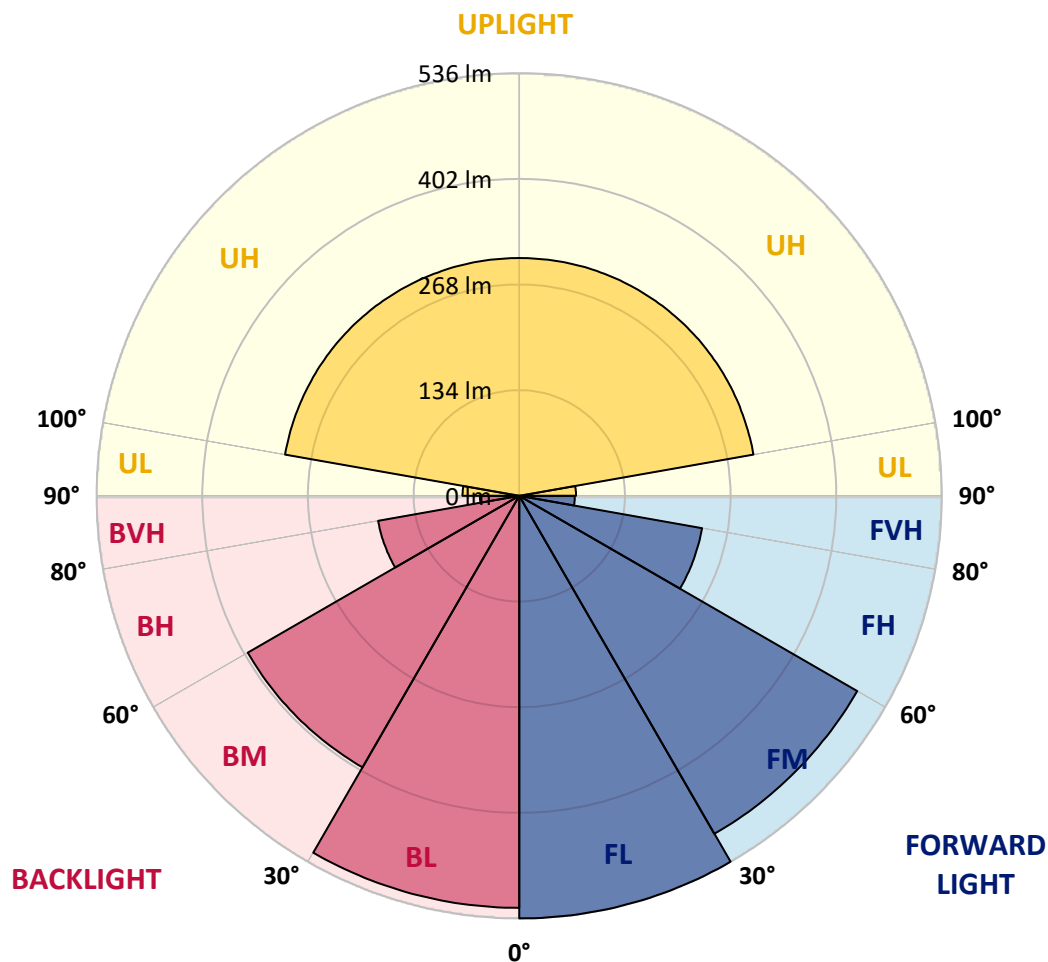
CATALOG NUMBER: CRTK2-C013-5TLD-U-T2-7030-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	535.9	18.7			
FM	(30°-60°)	494.9	17.3			
FH	(60°-80°)	235.4	8.2			G0/660
FVH	(80°-90°)	70.5	2.5			G1/100
BL	(0°-30°)	522.5	18.3	B2/1000		
BM	(30°-60°)	397.6	13.9	B1/1000		
BH	(60°-80°)	181.7	6.3	B1/500		G1/500
BVH	(80°-90°)	49.9	1.7			G1/100
UL	(90°-100°)	72.0	2.5		U3/500	
UH	(100°-180°)	301.6	10.5		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°	2483.5	2483.5	2483.5	2483.5	2483.5	2483.5	2483.5	2483.5	2483.5	2483.5	2483.5
2.5°	2047.4	2058.9	2084.1	2096.8	2109.4	2125.4	2149.5	2167.9	2210.4	2249.4	2265.5
5°	1689.3	1710.0	1758.2	1797.2	1840.8	1886.7	1936.1	1979.7	2035.9	2087.6	2117.4
7.5°	1451.8	1469.0	1526.4	1602.1	1679.0	1743.3	1793.8	1827.1	1852.3	1873.0	1894.8
10°	1307.2	1322.1	1379.5	1447.2	1512.6	1572.3	1614.7	1646.9	1656.1	1676.7	1687.0
12.5°	1265.9	1272.7	1312.9	1360.0	1400.1	1458.7	1509.2	1543.6	1558.5	1576.9	1582.6
15°	1267.0	1267.0	1290.0	1319.8	1356.5	1401.3	1457.5	1498.8	1520.6	1531.0	1529.8
17.5°	1284.2	1283.1	1293.4	1317.5	1348.5	1393.2	1450.6	1493.1	1518.3	1521.8	1518.3
20°	1284.2	1285.4	1288.8	1316.4	1346.2	1386.4	1444.9	1480.5	1500.0	1489.6	1478.2
22.5°	1153.4	1152.2	1182.1	1240.6	1320.9	1404.7	1457.5	1501.1	1505.7	1467.8	1436.9
25°	952.5	944.5	961.7	988.1	1042.1	1139.6	1249.8	1415.0	1513.7	1491.9	1444.9
27.5°	826.3	816.0	830.9	819.4	813.7	806.8	799.9	780.4	793.0	804.5	855.0
30°	623.2	625.5	628.9	635.8	649.6	677.1	705.8	723.0	737.9	767.8	764.3
32.5°	609.4	608.3	609.4	616.3	623.2	640.4	657.6	666.8	678.3	707.0	700.1
35°	563.5	561.2	569.2	572.7	571.5	576.1	593.3	603.7	614.0	632.4	625.5
37.5°	495.8	498.1	515.3	524.5	527.9	538.2	552.0	561.2	573.8	587.6	584.2
40°	445.3	444.1	462.5	475.1	483.2	499.2	519.9	533.7	554.3	565.8	557.8
42.5°	383.3	387.9	401.7	414.3	416.6	424.6	443.0	459.1	484.3	501.5	496.9
45°	322.5	325.9	337.4	347.7	355.8	366.1	379.9	393.6	414.3	428.1	426.9
47.5°	284.6	288.1	297.2	309.9	321.3	336.3	350.0	363.8	383.3	393.6	390.2
50°	269.7	272.0	282.3	296.1	313.3	331.7	350.0	365.0	383.3	390.2	384.5
52.5°	268.5	268.5	281.2	301.8	325.9	351.2	375.3	395.9	413.2	413.2	401.7
55°	252.5	254.8	270.8	298.4	335.1	376.4	418.9	457.9	480.9	476.3	454.5
57.5°	229.5	230.7	247.9	274.3	313.3	363.8	421.2	470.5	498.1	503.8	480.9
60°	215.8	216.9	228.4	253.6	286.9	327.1	379.9	418.9	446.4	463.6	445.3
62.5°	204.3	204.3	215.8	233.0	260.5	290.4	320.2	346.6	368.4	381.0	370.7
65°	191.7	191.7	199.7	215.8	237.6	266.3	289.2	308.7	328.2	337.4	328.2
67.5°	179.0	179.0	187.1	202.0	221.5	245.6	268.5	286.9	306.4	313.3	306.4
70°	166.4	166.4	174.4	187.1	205.4	228.4	245.6	265.1	283.5	288.1	282.3
72.5°	153.8	153.8	161.8	173.3	189.4	211.2	227.2	242.2	259.4	262.8	257.1
75°	142.3	142.3	148.0	159.5	174.4	194.0	210.0	223.8	237.6	237.6	233.0
77.5°	129.7	130.8	135.4	145.8	159.5	177.9	192.8	205.4	216.9	216.9	211.2
80°	117.1	118.2	122.8	132.0	144.6	161.8	175.6	187.1	197.4	197.4	191.7
82.5°	104.4	105.6	110.2	118.2	129.7	145.8	159.5	171.0	180.2	179.0	173.3
85°	93.0	94.1	97.6	104.4	114.8	130.8	143.5	153.8	161.8	160.7	156.1
87.5°	81.5	82.6	86.1	91.8	101.0	115.9	128.5	137.7	144.6	143.5	138.9
90°	71.2	71.2	74.6	80.3	88.4	101.0	112.5	120.5	127.4	125.1	120.5
92.5°	62.0	63.1	65.4	70.0	76.9	88.4	98.7	105.6	112.5	111.3	106.7
95°	55.1	55.1	57.4	60.8	66.6	75.7	86.1	91.8	96.4	96.4	93.0
97.5°	48.2	49.3	50.5	52.8	57.4	64.3	72.3	78.0	81.5	81.5	79.2
100°	43.6	44.8	44.8	47.1	49.3	53.9	59.7	64.3	67.7	67.7	66.6
102.5°	41.3	41.3	41.3	42.5	43.6	45.9	49.3	51.6	53.9	55.1	53.9
105°	39.0	39.0	39.0	40.2	40.2	42.5	43.6	45.9	47.1	47.1	45.9
107.5°	37.9	37.9	39.0	39.0	39.0	40.2	42.5	42.5	43.6	42.5	42.5
110°	39.0	39.0	39.0	39.0	39.0	40.2	41.3	41.3	41.3	41.3	40.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	40.2	40.2	40.2	40.2	41.3	41.3	41.3	42.5	42.5	41.3	41.3
115°	43.6	43.6	43.6	43.6	43.6	44.8	44.8	44.8	44.8	43.6	42.5
117.5°	47.1	47.1	47.1	48.2	48.2	49.3	48.2	49.3	48.2	47.1	47.1
120°	52.8	52.8	53.9	55.1	56.2	56.2	55.1	56.2	56.2	53.9	52.8
122.5°	59.7	59.7	60.8	64.3	65.4	66.6	65.4	65.4	65.4	63.1	62.0
125°	66.6	67.7	70.0	74.6	78.0	80.3	78.0	79.2	79.2	75.7	74.6
127.5°	74.6	75.7	80.3	87.2	93.0	95.3	94.1	95.3	96.4	90.7	88.4
130°	82.6	82.6	89.5	99.8	107.9	111.3	112.5	113.6	114.8	109.0	104.4
132.5°	89.5	89.5	98.7	111.3	121.7	127.4	129.7	132.0	134.3	126.2	120.5
135°	94.1	95.3	106.7	121.7	134.3	142.3	145.8	148.0	151.5	142.3	135.4
137.5°	97.6	99.8	111.3	127.4	141.2	152.6	159.5	163.0	165.3	156.1	146.9
140°	98.7	99.8	112.5	128.5	142.3	154.9	165.3	171.0	172.1	163.0	153.8
142.5°	95.3	97.6	109.0	125.1	138.9	152.6	164.1	169.9	171.0	163.0	153.8
145°	90.7	91.8	102.1	117.1	130.8	145.8	158.4	164.1	164.1	157.2	148.0
147.5°	82.6	83.8	93.0	105.6	119.4	134.3	146.9	152.6	153.8	146.9	138.9
150°	71.2	72.3	79.2	89.5	103.3	118.2	129.7	136.6	136.6	129.7	123.9
152.5°	57.4	58.5	64.3	72.3	83.8	97.6	107.9	114.8	114.8	110.2	103.3
155°	44.8	44.8	49.3	56.2	64.3	74.6	82.6	88.4	89.5	84.9	80.3
157.5°	32.1	32.1	35.6	41.3	48.2	56.2	62.0	66.6	66.6	63.1	60.8
160°	21.8	21.8	24.1	27.5	32.1	37.9	42.5	47.1	47.1	44.8	42.5
162.5°	11.5	11.5	13.8	16.1	19.5	24.1	26.4	29.8	29.8	28.7	27.5
165°	3.4	3.4	4.6	5.7	8.0	10.3	11.5	13.8	14.9	13.8	12.6
167.5°	0.0	0.0	1.1	1.1	1.1	1.1	2.3	3.4	3.4	3.4	3.4
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°	2483.5	2483.5	2483.5	2483.5	2483.5	2483.5	2483.5	2483.5	2483.5	2483.5	2483.5
2.5°	2282.7	2355.0	2420.4	2488.1	2571.9	2645.3	2724.5	2780.8	2804.9	2804.9	2814.0
5°	2139.2	2189.7	2242.5	2302.2	2402.0	2524.8	2666.0	2781.9	2848.5	2858.8	2857.6
7.5°	1901.7	1936.1	1990.0	2056.6	2148.4	2258.6	2439.9	2621.2	2741.7	2763.5	2755.5
10°	1692.8	1724.9	1757.0	1782.3	1847.7	1934.9	2068.1	2244.8	2383.7	2405.5	2388.3
12.5°	1586.0	1596.4	1595.2	1610.1	1636.5	1680.2	1747.9	1850.0	1945.3	1965.9	1951.0
15°	1529.8	1514.9	1491.9	1465.5	1463.3	1470.1	1487.4	1528.7	1568.8	1586.0	1574.6
17.5°	1506.9	1471.3	1424.2	1372.6	1338.2	1306.0	1284.2	1270.4	1276.2	1277.3	1268.2
20°	1452.9	1410.5	1334.7	1261.3	1206.2	1149.9	1101.7	1066.2	1060.4	1054.7	1047.8
22.5°	1392.1	1319.8	1229.1	1139.6	1058.1	983.5	929.6	887.1	871.1	876.8	873.4
25°	1379.5	1259.0	1148.8	1004.2	900.9	817.1	716.1	647.3	616.3	633.5	622.0
27.5°	827.5	830.9	768.9	681.7	607.1	557.8	513.0	476.3	455.6	455.6	457.9
30°	749.4	716.1	674.8	620.9	555.5	506.1	456.8	416.6	394.8	389.1	391.3
32.5°	685.1	662.2	623.2	571.5	511.9	461.4	409.7	373.0	352.3	351.2	350.0
35°	616.3	592.2	560.1	515.3	463.6	416.6	371.8	339.7	321.3	322.5	322.5
37.5°	569.2	547.4	518.7	476.3	429.2	382.2	342.0	312.2	297.2	297.2	296.1
40°	545.1	519.9	488.9	449.9	406.3	356.9	319.0	290.4	277.7	277.7	276.6
42.5°	492.3	470.5	449.9	409.7	366.1	325.9	290.4	265.1	252.5	252.5	252.5
45°	417.7	405.1	389.1	361.5	325.9	292.7	262.8	238.7	228.4	227.2	227.2
47.5°	385.6	371.8	352.3	327.1	298.4	267.4	238.7	221.5	211.2	211.2	211.2
50°	376.4	360.4	334.0	304.1	274.3	246.7	221.5	205.4	196.2	196.2	197.4
52.5°	389.1	362.7	327.1	290.4	259.4	228.4	206.6	190.5	183.6	183.6	182.5
55°	432.7	383.3	331.7	286.9	247.9	214.6	191.7	174.4	166.4	166.4	166.4
57.5°	456.8	398.2	335.1	282.3	237.6	204.3	180.2	161.8	153.8	153.8	153.8
60°	429.2	381.0	321.3	273.1	229.5	195.1	169.9	152.6	144.6	143.5	142.3
62.5°	359.2	329.4	286.9	246.7	212.3	182.5	161.8	144.6	136.6	136.6	135.4
65°	320.2	294.9	258.2	223.8	195.1	169.9	150.3	136.6	128.5	127.4	127.4
67.5°	298.4	275.4	238.7	206.6	180.2	157.2	138.9	126.2	120.5	118.2	118.2
70°	274.3	249.0	216.9	188.2	164.1	143.5	128.5	115.9	110.2	109.0	107.9
72.5°	250.2	227.2	197.4	169.9	148.0	130.8	117.1	105.6	99.8	98.7	98.7
75°	224.9	203.1	174.4	151.5	133.1	117.1	104.4	95.3	90.7	89.5	88.4
77.5°	204.3	184.8	157.2	135.4	118.2	105.6	94.1	86.1	81.5	81.5	80.3
80°	184.8	166.4	140.0	120.5	105.6	93.0	83.8	76.9	73.4	72.3	72.3
82.5°	166.4	148.0	123.9	106.7	93.0	82.6	73.4	67.7	64.3	64.3	64.3
85°	149.2	132.0	110.2	94.1	81.5	72.3	64.3	58.5	56.2	55.1	56.2
87.5°	132.0	115.9	97.6	82.6	71.2	62.0	55.1	50.5	48.2	48.2	48.2
90°	115.9	101.0	83.8	70.0	60.8	52.8	47.1	42.5	41.3	40.2	40.2
92.5°	102.1	89.5	74.6	63.1	53.9	48.2	42.5	39.0	36.7	36.7	36.7
95°	89.5	78.0	66.6	56.2	49.3	43.6	39.0	35.6	34.4	34.4	34.4
97.5°	76.9	67.7	58.5	50.5	44.8	40.2	35.6	33.3	32.1	31.0	32.1
100°	64.3	57.4	50.5	44.8	40.2	35.6	32.1	29.8	28.7	28.7	28.7
102.5°	51.6	48.2	42.5	37.9	34.4	32.1	28.7	26.4	25.2	25.2	25.2
105°	44.8	41.3	37.9	34.4	32.1	28.7	26.4	24.1	23.0	23.0	23.0
107.5°	41.3	39.0	35.6	33.3	29.8	27.5	25.2	21.8	20.7	20.7	20.7
110°	40.2	37.9	35.6	32.1	29.8	27.5	25.2	20.7	19.5	19.5	19.5

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	40.2	37.9	35.6	33.3	31.0	27.5	25.2	20.7	18.4	18.4	18.4
115°	42.5	40.2	37.9	35.6	32.1	28.7	26.4	20.7	18.4	18.4	18.4
117.5°	45.9	43.6	41.3	37.9	34.4	31.0	26.4	20.7	19.5	19.5	19.5
120°	51.6	49.3	45.9	42.5	37.9	33.3	28.7	21.8	18.4	19.5	19.5
122.5°	59.7	57.4	52.8	47.1	42.5	36.7	29.8	23.0	17.2	19.5	19.5
125°	71.2	67.7	60.8	53.9	47.1	40.2	32.1	24.1	18.4	20.7	20.7
127.5°	83.8	79.2	70.0	60.8	52.8	43.6	34.4	25.2	19.5	20.7	20.7
130°	98.7	90.7	79.2	67.7	57.4	47.1	36.7	26.4	20.7	20.7	20.7
132.5°	113.6	102.1	87.2	74.6	62.0	49.3	37.9	26.4	20.7	20.7	20.7
135°	126.2	112.5	95.3	79.2	64.3	50.5	39.0	26.4	20.7	20.7	20.7
137.5°	137.7	119.4	99.8	81.5	65.4	50.5	37.9	26.4	19.5	19.5	19.5
140°	143.5	122.8	102.1	81.5	64.3	49.3	35.6	24.1	18.4	18.4	18.4
142.5°	143.5	121.7	99.8	79.2	62.0	47.1	33.3	23.0	16.1	17.2	17.2
145°	138.9	117.1	95.3	74.6	57.4	42.5	29.8	19.5	14.9	14.9	14.9
147.5°	128.5	107.9	87.2	67.7	51.6	36.7	26.4	17.2	12.6	11.5	12.6
150°	114.8	95.3	75.7	58.5	43.6	31.0	21.8	13.8	10.3	10.3	10.3
152.5°	96.4	79.2	63.1	48.2	34.4	24.1	16.1	10.3	8.0	8.0	8.0
155°	75.7	62.0	49.3	36.7	26.4	18.4	12.6	8.0	5.7	5.7	5.7
157.5°	57.4	47.1	36.7	26.4	19.5	13.8	9.2	5.7	4.6	4.6	4.6
160°	40.2	32.1	25.2	18.4	12.6	9.2	5.7	3.4	2.3	2.3	2.3
162.5°	25.2	20.7	16.1	10.3	8.0	5.7	3.4	2.3	1.1	1.1	1.1
165°	11.5	10.3	6.9	4.6	3.4	2.3	1.1	1.1	0.0	0.0	0.0
167.5°	3.4	2.3	2.3	1.1	1.1	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)