

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: P691069

Luminaire Tested: **CRTK2-C013-5TLD-U-T3-8027-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691069
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-C013-5TLD-U-T3-8027-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K 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: 2378 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B1 - 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



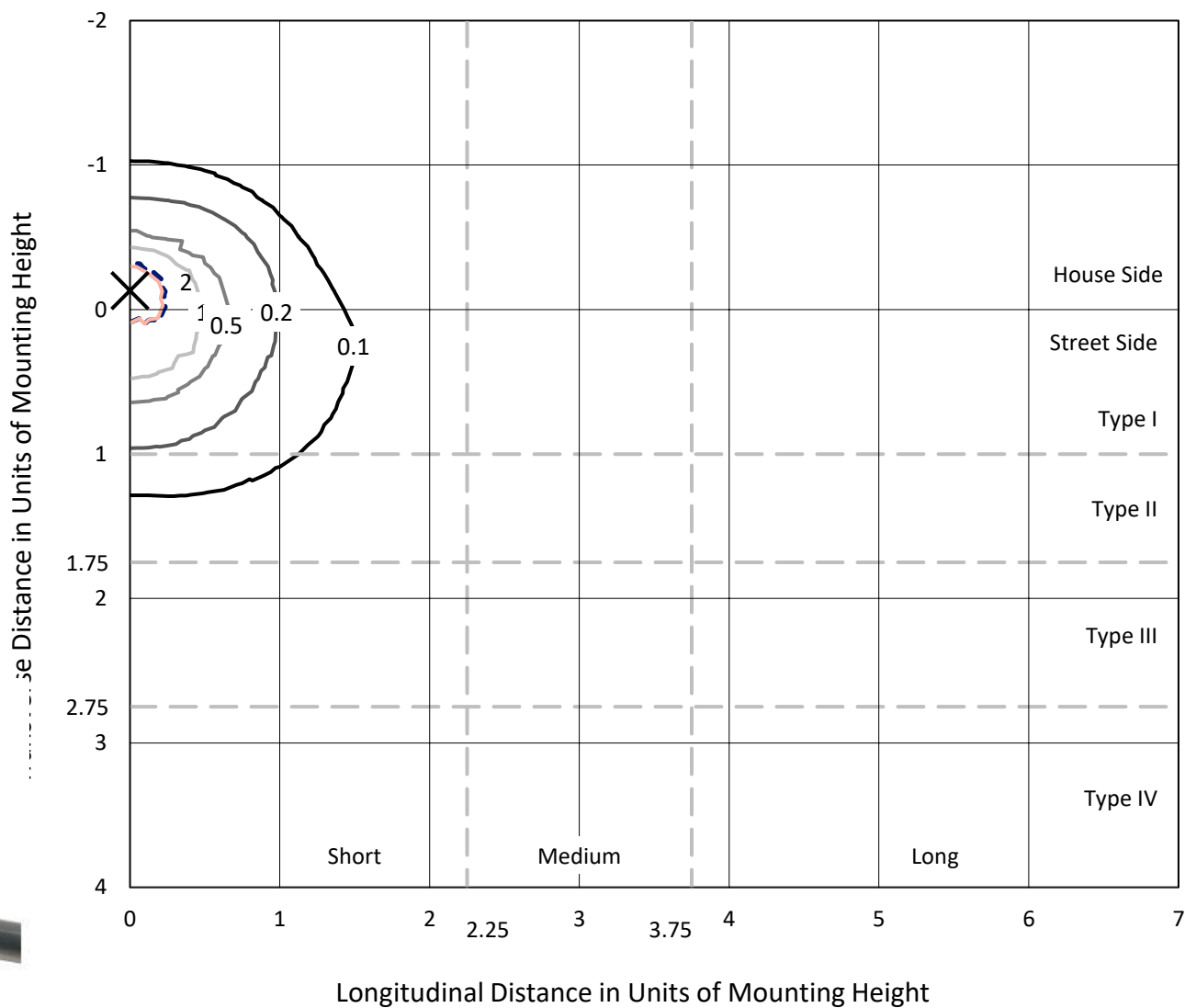
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



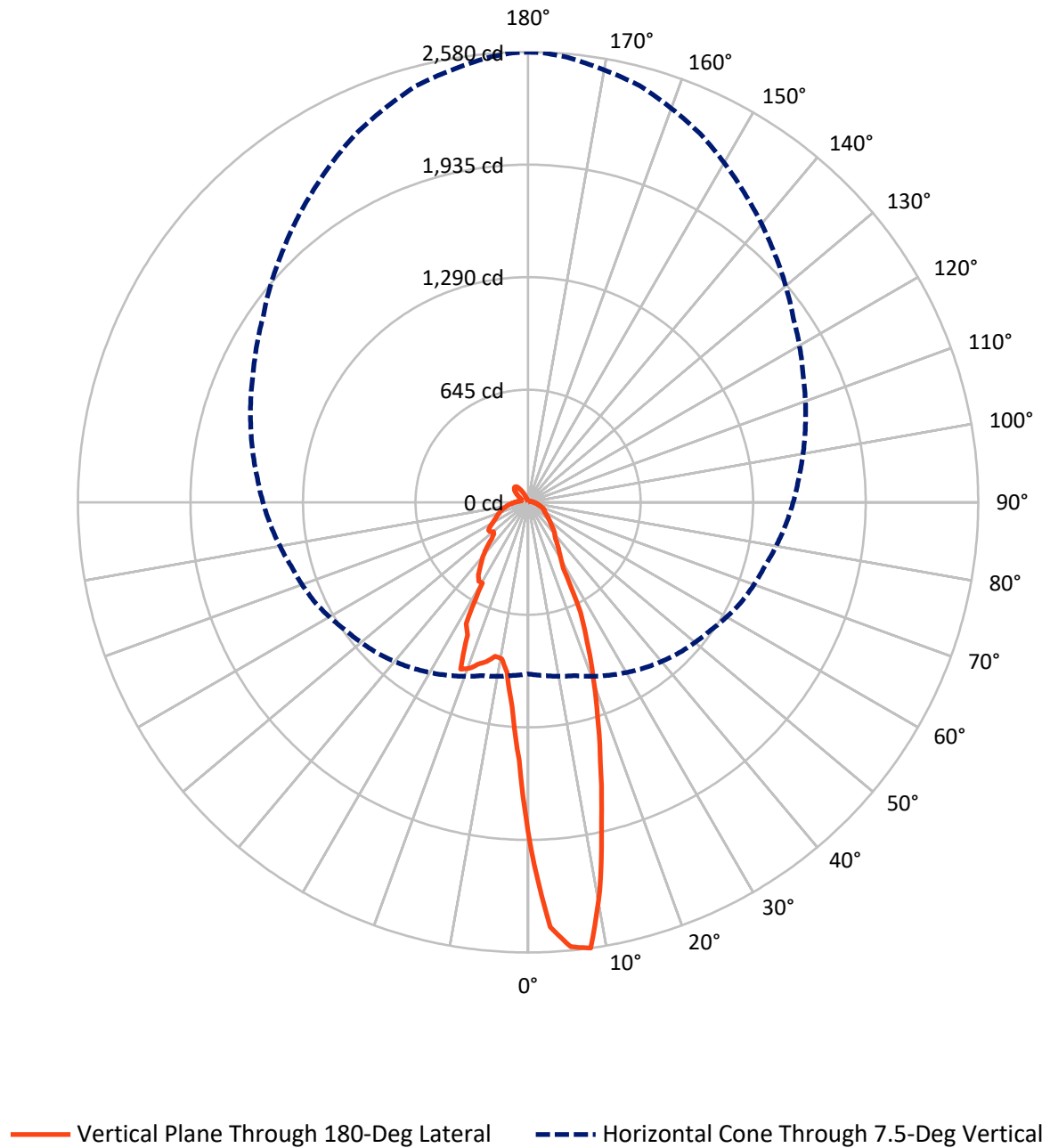
Based on 25 foot mounting height. Maximum calculated value = 4 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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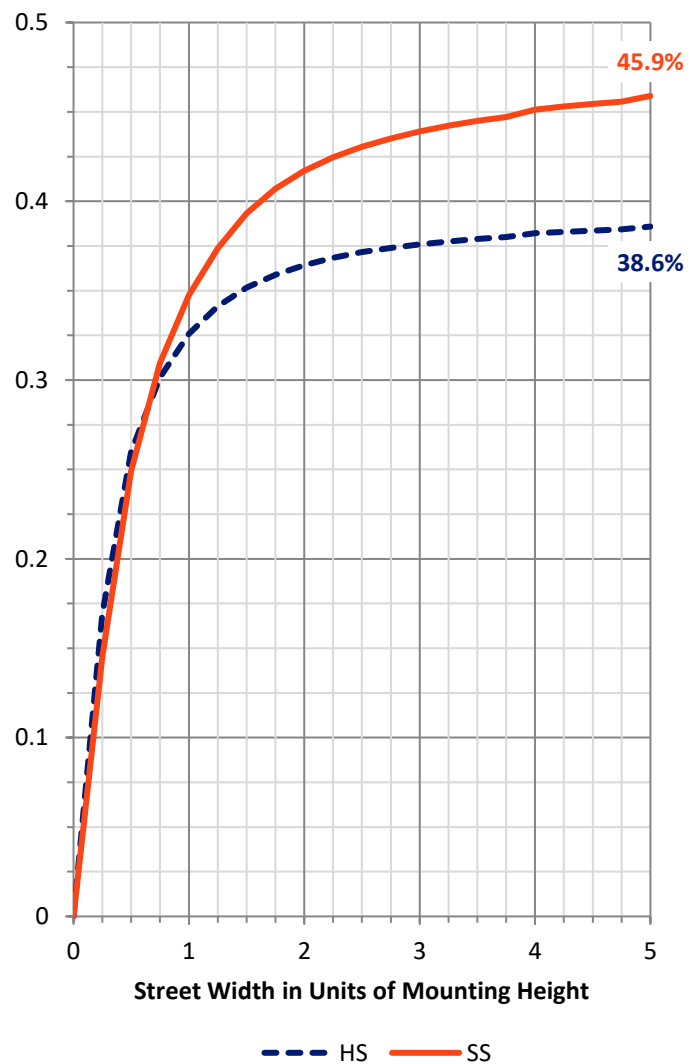
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	941.5	98.2	1039.7
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	1122.7	215.6	1338.3
	% Fixture	47.2	9.1	56.3
Total	Lumens	2064.2	313.8	2378.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	6.7
10°-20°	340.8	14.3
20°-30°	376.4	15.8
30°-40°	273.0	11.5
40°-50°	230.0	9.7
50°-60°	234.8	9.9
60°-70°	200.1	8.4
70°-80°	149.2	6.3
80°-90°	100.7	4.2
90°-100°	60.2	2.5
100°-110°	34.6	1.5
110°-120°	32.4	1.4
120°-130°	47.1	2.0
130°-140°	64.1	2.7
140°-150°	52.1	2.2
150°-160°	20.8	0.9
160°-170°	2.5	0.1
170°-180°	0.0	0.0
0°-90°	2064.2	86.8
0°-180°	2378.0	100.0

Coefficient of Utilization



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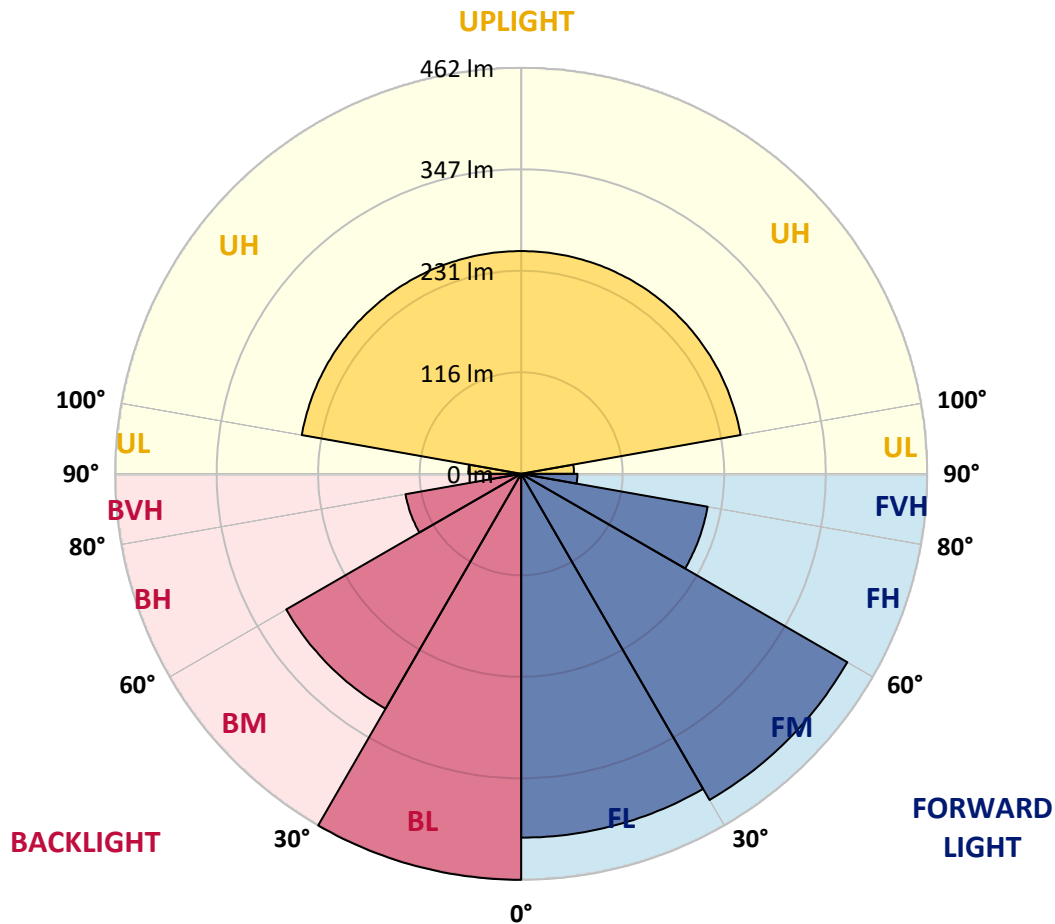
CATALOG NUMBER: CRTK2-C013-5TLD-U-T3-8027-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	414.3	17.4			
FM	(30°-60°)	428.9	18.0			
FH	(60°-80°)	215.6	9.1			G0/660
FVH	(80°-90°)	64.1	2.7			G1/100
BL	(0°-30°)	462.3	19.4	B1/500		
BM	(30°-60°)	308.9	13.0	B1/1000		
BH	(60°-80°)	133.7	5.6	B1/500		G1/500
BVH	(80°-90°)	36.6	1.5			G1/100
UL	(90°-100°)	60.2	2.5		U3/500	
UH	(100°-180°)	253.6	10.7		U3/500	

BUG Rating: B1-U3-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5
2.5°	1475.8	1510.0	1513.1	1550.5	1578.5	1604.5	1623.2	1677.1	1732.1	1784.0	1814.1
5°	1171.7	1188.3	1218.4	1258.9	1310.8	1351.2	1409.4	1485.1	1557.8	1649.1	1693.7
7.5°	983.9	996.3	1028.5	1093.9	1159.2	1221.5	1277.6	1350.2	1406.2	1482.0	1519.4
10°	909.1	916.4	943.4	989.0	1051.3	1103.2	1152.0	1207.0	1256.8	1326.3	1353.3
12.5°	901.9	905.0	926.8	958.9	995.3	1037.8	1078.3	1125.0	1177.9	1232.9	1253.7
15°	941.3	939.2	946.5	965.2	985.9	1019.1	1056.5	1099.1	1149.9	1190.4	1207.0
17.5°	969.3	968.3	981.8	990.1	1009.8	1029.5	1066.9	1100.1	1149.9	1182.1	1191.4
20°	1009.8	1011.9	1016.0	1031.6	1039.9	1053.4	1076.2	1095.9	1138.5	1157.2	1155.1
22.5°	1031.6	1030.6	1048.2	1084.5	1093.9	1101.1	1105.3	1113.6	1137.5	1136.4	1120.8
25°	836.5	838.6	842.7	873.8	913.3	977.6	1030.6	1113.6	1158.2	1141.6	1108.4
27.5°	781.5	775.3	753.5	735.8	682.9	647.6	614.4	599.9	607.1	619.6	653.8
30°	532.4	533.4	535.5	538.6	543.8	557.3	566.7	567.7	575.0	595.7	588.4
32.5°	533.4	534.5	531.4	534.5	532.4	537.6	536.6	532.4	538.6	557.3	550.0
35°	501.3	499.2	501.3	502.3	490.9	486.7	485.7	482.6	486.7	496.1	489.9
37.5°	451.5	450.4	459.8	464.9	455.6	455.6	453.5	449.4	452.5	460.8	452.5
40°	407.9	408.9	422.4	430.7	427.6	430.7	433.8	432.8	440.0	443.1	432.8
42.5°	360.1	358.0	371.5	377.8	371.5	373.6	372.6	373.6	388.1	394.4	387.1
45°	301.0	304.1	310.3	318.6	317.6	320.7	319.6	321.7	331.1	334.2	329.0
47.5°	267.8	269.8	277.1	286.4	291.6	296.8	296.8	297.9	304.1	305.1	299.9
50°	260.5	262.6	271.9	282.3	290.6	296.8	299.9	298.9	302.0	299.9	292.7
52.5°	272.9	272.9	287.5	299.9	310.3	321.7	325.9	321.7	321.7	313.4	302.0
55°	278.1	279.2	296.8	318.6	338.3	359.1	372.6	371.5	370.5	357.0	336.3
57.5°	261.5	264.6	282.3	307.2	334.2	367.4	387.1	390.2	390.2	372.6	349.7
60°	237.7	239.7	253.2	274.0	301.0	325.9	346.6	348.7	354.9	345.6	324.8
62.5°	217.9	220.0	231.4	247.0	266.7	282.3	288.5	288.5	291.6	288.5	274.0
65°	203.4	204.5	213.8	227.3	240.8	253.2	259.5	257.4	261.5	257.4	246.0
67.5°	189.9	189.9	198.2	208.6	221.1	235.6	239.7	241.8	246.0	240.8	230.4
70°	176.4	177.5	185.8	194.1	205.5	215.9	220.0	221.1	226.2	220.0	212.8
72.5°	165.0	165.0	172.3	180.6	188.9	199.3	202.4	204.5	207.6	201.3	195.1
75°	151.5	152.6	158.8	166.1	173.3	183.7	186.8	187.8	191.0	183.7	177.5
77.5°	139.1	140.1	145.3	151.5	158.8	167.1	170.2	172.3	173.3	167.1	160.9
80°	126.6	127.7	131.8	138.0	144.3	152.6	154.6	155.7	157.7	150.5	146.3
82.5°	115.2	115.2	118.3	123.5	129.7	137.0	140.1	141.1	142.2	136.0	131.8
85°	101.7	101.7	104.8	110.0	115.2	122.5	125.6	126.6	126.6	121.4	117.3
87.5°	90.3	90.3	92.4	96.5	100.7	107.9	111.0	113.1	112.1	107.9	103.8
90°	78.9	78.9	81.0	84.1	88.2	94.4	97.6	98.6	98.6	93.4	90.3
92.5°	68.5	68.5	70.6	73.7	76.8	82.0	85.1	87.2	87.2	83.0	79.9
95°	59.2	59.2	60.2	63.3	66.4	70.6	72.6	74.7	74.7	72.6	69.5
97.5°	50.9	50.9	51.9	54.0	56.0	59.2	61.2	63.3	63.3	62.3	60.2
100°	44.6	44.6	44.6	45.7	47.7	48.8	50.9	52.9	52.9	51.9	50.9
102.5°	40.5	40.5	40.5	40.5	40.5	41.5	41.5	42.6	42.6	42.6	41.5
105°	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	37.4	36.3	35.3
107.5°	38.4	37.4	37.4	37.4	37.4	36.3	36.3	36.3	35.3	34.2	33.2
110°	38.4	38.4	38.4	38.4	37.4	36.3	36.3	35.3	34.2	33.2	32.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	40.5	40.5	40.5	39.4	38.4	38.4	37.4	36.3	35.3	33.2	32.2
115°	43.6	43.6	43.6	43.6	42.6	40.5	39.4	38.4	36.3	35.3	34.2
117.5°	48.8	48.8	48.8	48.8	46.7	45.7	43.6	42.6	40.5	38.4	37.4
120°	55.0	55.0	56.0	56.0	55.0	52.9	49.8	48.8	46.7	43.6	41.5
122.5°	64.3	63.3	65.4	65.4	65.4	63.3	59.2	57.1	55.0	50.9	48.8
125°	73.7	73.7	75.8	77.8	78.9	75.8	71.6	68.5	65.4	60.2	57.1
127.5°	84.1	84.1	88.2	92.4	94.4	91.3	86.1	83.0	78.9	71.6	67.5
130°	94.4	94.4	100.7	106.9	110.0	107.9	102.7	98.6	93.4	84.1	78.9
132.5°	103.8	103.8	111.0	119.3	123.5	122.5	117.3	113.1	109.0	97.6	90.3
135°	111.0	112.1	121.4	130.8	136.0	137.0	131.8	126.6	121.4	109.0	100.7
137.5°	115.2	117.3	126.6	138.0	143.2	146.3	143.2	138.0	131.8	118.3	109.0
140°	116.2	117.3	127.7	139.1	144.3	148.4	148.4	142.2	137.0	123.5	113.1
142.5°	113.1	114.2	124.5	134.9	140.1	145.3	146.3	141.1	136.0	123.5	113.1
145°	105.9	107.9	117.3	125.6	132.8	138.0	140.1	137.0	130.8	119.3	110.0
147.5°	96.5	97.6	105.9	113.1	120.4	126.6	129.7	126.6	121.4	111.0	102.7
150°	82.0	83.0	89.3	95.5	103.8	110.0	114.2	112.1	107.9	99.6	91.3
152.5°	66.4	66.4	71.6	76.8	84.1	90.3	94.4	93.4	90.3	83.0	76.8
155°	50.9	50.9	54.0	58.1	64.3	68.5	72.6	72.6	70.6	65.4	60.2
157.5°	36.3	36.3	39.4	42.6	46.7	50.9	54.0	54.0	52.9	48.8	45.7
160°	23.9	23.9	25.9	28.0	32.2	34.2	37.4	37.4	36.3	34.2	32.2
162.5°	12.5	12.5	14.5	15.6	18.7	20.8	22.8	23.9	23.9	21.8	20.8
165°	4.2	4.2	4.2	5.2	7.3	9.3	10.4	11.4	11.4	10.4	10.4
167.5°	1.0	1.0	1.0	1.0	1.0	1.0	2.1	3.1	3.1	3.1	3.1
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°	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5
2.5°	1846.3	1940.7	2021.7	2106.8	2201.2	2281.1	2362.1	2406.7	2445.1	2437.8	2437.8
5°	1737.3	1831.8	1930.3	2034.1	2161.8	2292.5	2417.1	2506.3	2553.0	2560.3	2559.3
7.5°	1556.7	1644.9	1738.4	1853.5	2003.0	2162.8	2332.0	2472.1	2560.3	2576.9	2580.0
10°	1378.2	1444.6	1523.5	1602.4	1736.3	1882.6	2034.1	2146.2	2232.4	2244.8	2259.3
12.5°	1271.3	1307.7	1358.5	1413.5	1500.7	1607.6	1732.1	1796.5	1851.5	1857.7	1871.2
15°	1216.3	1234.0	1246.4	1266.1	1318.0	1384.5	1441.5	1504.8	1527.7	1543.2	1550.5
17.5°	1194.5	1192.5	1180.0	1180.0	1184.2	1209.1	1245.4	1267.2	1281.7	1289.0	1291.0
20°	1149.9	1131.2	1106.3	1073.1	1055.5	1047.2	1056.5	1061.7	1057.5	1052.4	1061.7
22.5°	1103.2	1063.8	1019.1	980.7	935.1	907.1	880.1	870.7	859.3	866.6	866.6
25°	1088.7	1019.1	947.5	883.2	814.7	768.0	718.2	700.5	682.9	697.4	697.4
27.5°	643.4	643.4	603.0	549.0	489.9	464.9	445.2	433.8	426.5	429.7	429.7
30°	576.0	549.0	524.1	489.9	444.2	414.1	388.1	372.6	365.3	363.2	365.3
32.5°	534.5	513.7	483.6	449.4	408.9	375.7	346.6	331.1	319.6	321.7	322.8
35°	478.4	456.6	430.7	398.5	364.3	333.1	307.2	291.6	281.2	281.2	282.3
37.5°	443.1	421.4	396.4	367.4	334.2	304.1	280.2	261.5	252.2	251.2	251.2
40°	421.4	399.6	376.7	347.7	316.5	285.4	261.5	244.9	233.5	233.5	234.5
42.5°	381.9	361.2	341.4	315.5	287.5	260.5	237.7	223.1	211.7	209.6	211.7
45°	321.7	310.3	294.7	277.1	253.2	231.4	210.7	198.2	188.9	188.9	187.8
47.5°	294.7	283.3	266.7	249.1	229.4	207.6	191.0	179.5	171.2	171.2	171.2
50°	284.4	271.9	251.2	231.4	208.6	189.9	175.4	164.0	157.7	157.7	156.7
52.5°	289.6	269.8	242.9	214.8	193.0	174.4	159.8	148.4	143.2	143.2	142.2
55°	317.6	282.3	242.9	208.6	182.7	161.9	147.4	134.9	129.7	129.7	129.7
57.5°	329.0	289.6	240.8	202.4	173.3	151.5	133.9	122.5	117.3	117.3	116.2
60°	308.2	275.0	230.4	194.1	166.1	144.3	127.7	116.2	110.0	110.0	109.0
62.5°	262.6	238.7	204.5	177.5	155.7	136.0	121.4	110.0	104.8	104.8	104.8
65°	235.6	214.8	187.8	164.0	144.3	127.7	114.2	104.8	99.6	99.6	99.6
67.5°	220.0	202.4	175.4	152.6	132.8	117.3	104.8	96.5	92.4	91.3	92.4
70°	203.4	184.7	159.8	138.0	120.4	105.9	94.4	86.1	82.0	82.0	82.0
72.5°	185.8	168.1	144.3	124.5	106.9	95.5	84.1	76.8	72.6	72.6	71.6
75°	169.2	151.5	128.7	110.0	95.5	84.1	74.7	68.5	64.3	64.3	64.3
77.5°	153.6	137.0	115.2	98.6	85.1	75.8	66.4	61.2	58.1	58.1	57.1
80°	139.1	123.5	102.7	88.2	75.8	67.5	59.2	55.0	51.9	51.9	51.9
82.5°	124.5	110.0	91.3	77.8	67.5	59.2	52.9	48.8	46.7	45.7	46.7
85°	111.0	97.6	81.0	68.5	59.2	51.9	46.7	42.6	40.5	40.5	40.5
87.5°	98.6	86.1	71.6	60.2	51.9	45.7	40.5	37.4	36.3	35.3	35.3
90°	85.1	73.7	61.2	51.9	44.6	39.4	34.2	32.2	30.1	30.1	30.1
92.5°	75.8	66.4	55.0	46.7	40.5	36.3	32.2	30.1	28.0	28.0	28.0
95°	66.4	58.1	48.8	42.6	37.4	33.2	30.1	28.0	27.0	27.0	27.0
97.5°	57.1	50.9	43.6	38.4	34.2	31.1	28.0	25.9	24.9	24.9	24.9
100°	47.7	43.6	38.4	34.2	31.1	28.0	24.9	23.9	22.8	22.8	22.8
102.5°	39.4	36.3	32.2	29.1	25.9	23.9	21.8	20.8	19.7	19.7	19.7
105°	34.2	32.2	29.1	25.9	23.9	21.8	19.7	17.6	17.6	17.6	17.6
107.5°	32.2	29.1	27.0	24.9	22.8	19.7	18.7	16.6	15.6	15.6	15.6
110°	31.1	29.1	27.0	23.9	21.8	19.7	17.6	15.6	14.5	14.5	14.5

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	31.1	29.1	27.0	24.9	22.8	19.7	18.7	14.5	13.5	13.5	13.5
115°	33.2	31.1	28.0	25.9	22.8	20.8	18.7	14.5	13.5	13.5	13.5
117.5°	35.3	33.2	30.1	28.0	24.9	21.8	18.7	14.5	13.5	13.5	13.5
120°	40.5	37.4	33.2	30.1	27.0	22.8	19.7	14.5	12.5	13.5	13.5
122.5°	45.7	42.6	37.4	33.2	29.1	24.9	19.7	14.5	12.5	13.5	13.5
125°	54.0	48.8	42.6	37.4	31.1	25.9	20.8	14.5	11.4	12.5	13.5
127.5°	63.3	57.1	48.8	41.5	34.2	27.0	20.8	14.5	11.4	12.5	12.5
130°	73.7	65.4	55.0	44.6	36.3	28.0	20.8	14.5	11.4	12.5	12.5
132.5°	84.1	72.6	60.2	48.8	38.4	29.1	20.8	13.5	11.4	11.4	11.4
135°	92.4	78.9	64.3	50.9	39.4	29.1	19.7	13.5	10.4	10.4	10.4
137.5°	99.6	84.1	67.5	51.9	39.4	28.0	18.7	12.5	9.3	9.3	9.3
140°	103.8	86.1	68.5	50.9	37.4	27.0	17.6	11.4	8.3	8.3	8.3
142.5°	103.8	85.1	66.4	49.8	35.3	24.9	15.6	9.3	7.3	7.3	7.3
145°	99.6	81.0	63.3	46.7	32.2	21.8	13.5	8.3	6.2	6.2	6.2
147.5°	93.4	74.7	58.1	42.6	29.1	18.7	11.4	7.3	5.2	5.2	5.2
150°	83.0	66.4	50.9	36.3	24.9	15.6	9.3	6.2	4.2	4.2	4.2
152.5°	69.5	55.0	42.6	30.1	20.8	12.5	8.3	4.2	3.1	3.1	3.1
155°	55.0	43.6	33.2	23.9	15.6	9.3	6.2	4.2	2.1	2.1	2.1
157.5°	41.5	32.2	24.9	17.6	11.4	7.3	4.2	3.1	2.1	2.1	2.1
160°	29.1	22.8	16.6	11.4	7.3	5.2	3.1	2.1	1.0	1.0	1.0
162.5°	18.7	14.5	10.4	7.3	4.2	3.1	2.1	1.0	1.0	1.0	0.0
165°	9.3	7.3	5.2	3.1	2.1	1.0	1.0	1.0	0.0	0.0	0.0
167.5°	2.1	2.1	2.1	1.0	1.0	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)