

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: P691038

Luminaire Tested: **CRTK2-C013-5TLD-U-T2-8027-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691038
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-T2-8027-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K LED WITH TYPE II OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2588 lumens
Efficiency: N/A
Efficacy: 111.6 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



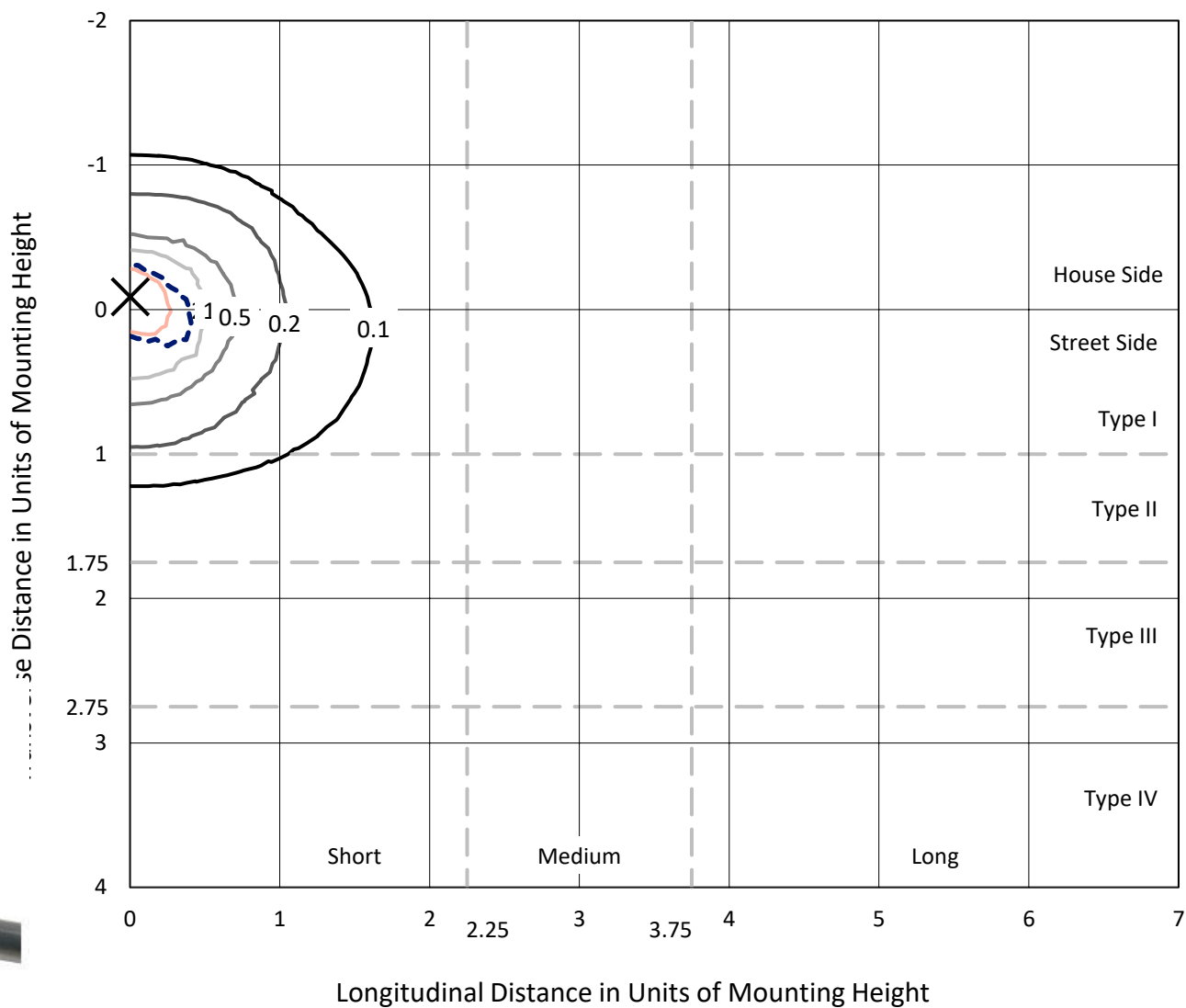
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

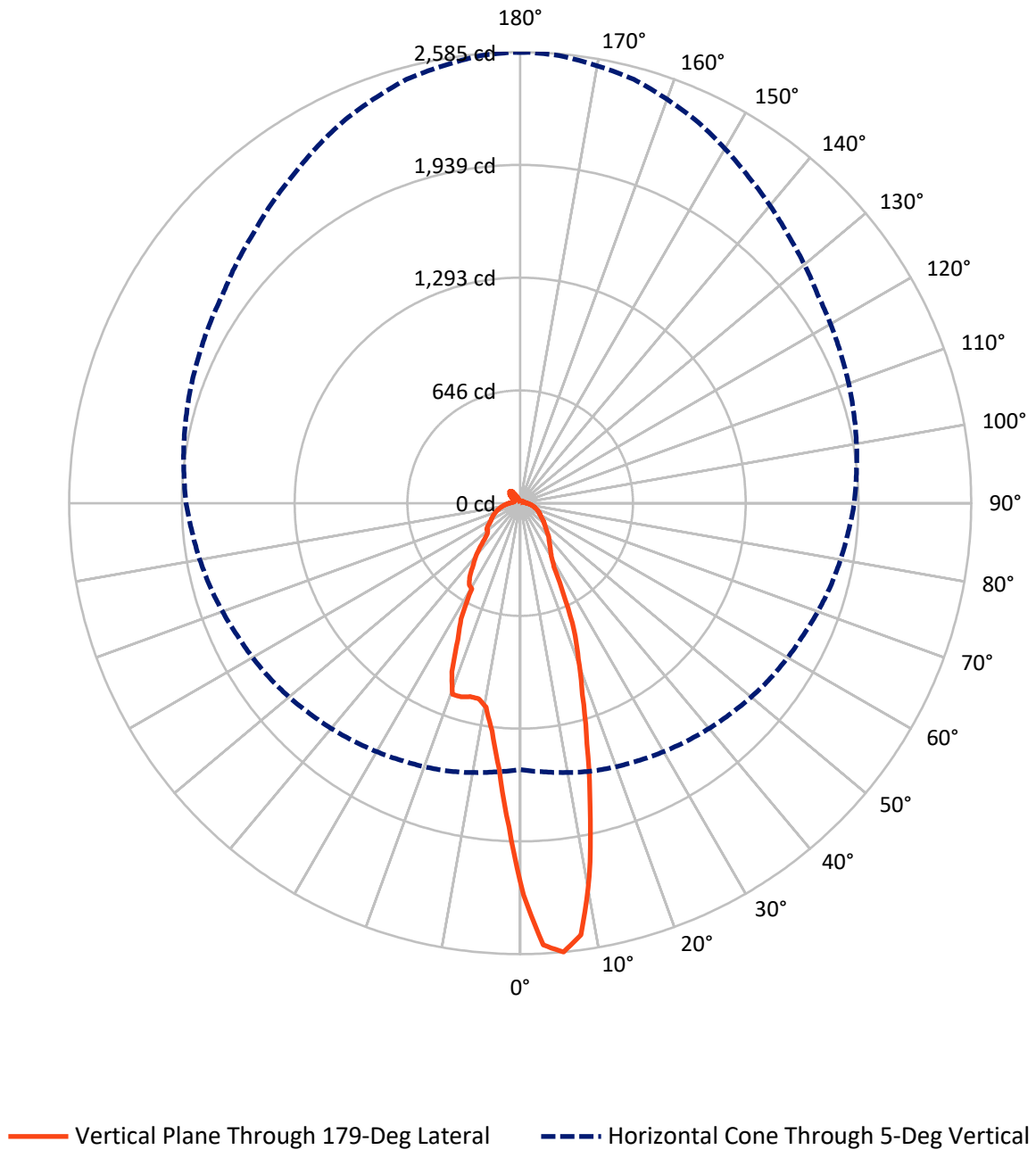


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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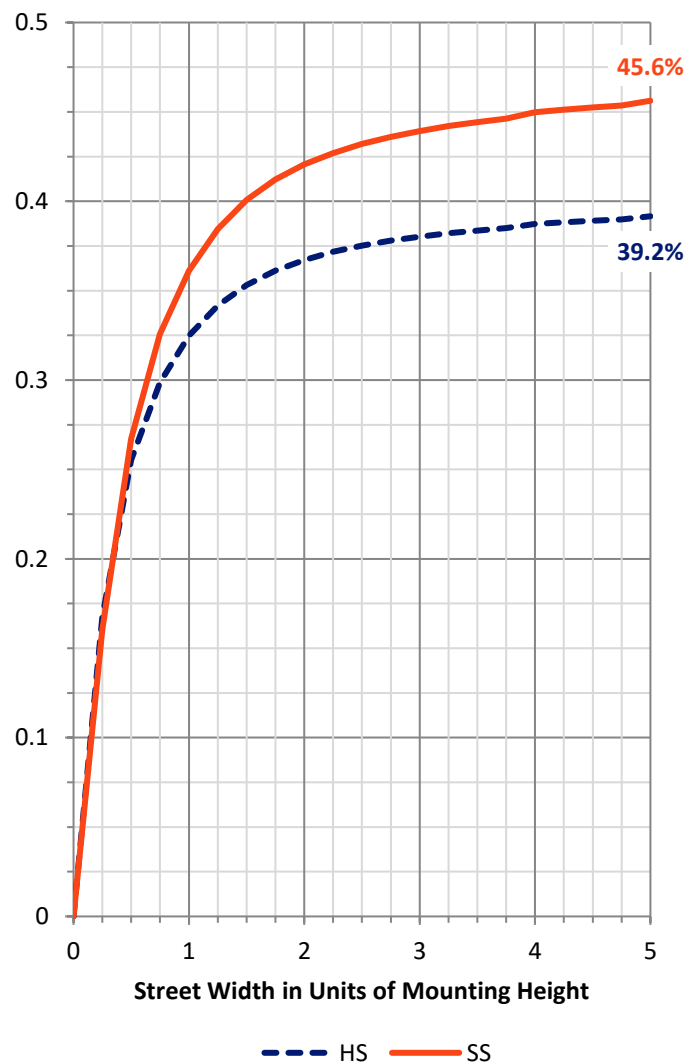
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1041.4	126.6	1168.1
	% Fixture	40.2	4.9	45.1
Street Side	Lumens	1208.8	211.2	1419.9
	% Fixture	46.7	8.2	54.9
Total	Lumens	2250.2	337.8	2588.0
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	6.8
10°-20°	374.6	14.5
20°-30°	406.9	15.7
30°-40°	301.2	11.6
40°-50°	252.3	9.7
50°-60°	253.6	9.8
60°-70°	215.9	8.3
70°-80°	161.3	6.2
80°-90°	108.9	4.2
90°-100°	65.1	2.5
100°-110°	37.6	1.5
110°-120°	34.6	1.3
120°-130°	50.0	1.9
130°-140°	68.5	2.6
140°-150°	56.4	2.2
150°-160°	22.7	0.9
160°-170°	2.8	0.1
170°-180°	0.0	0.0
0°-90°	2250.2	86.9
0°-180°	2588.0	100.0

Coefficient of Utilization



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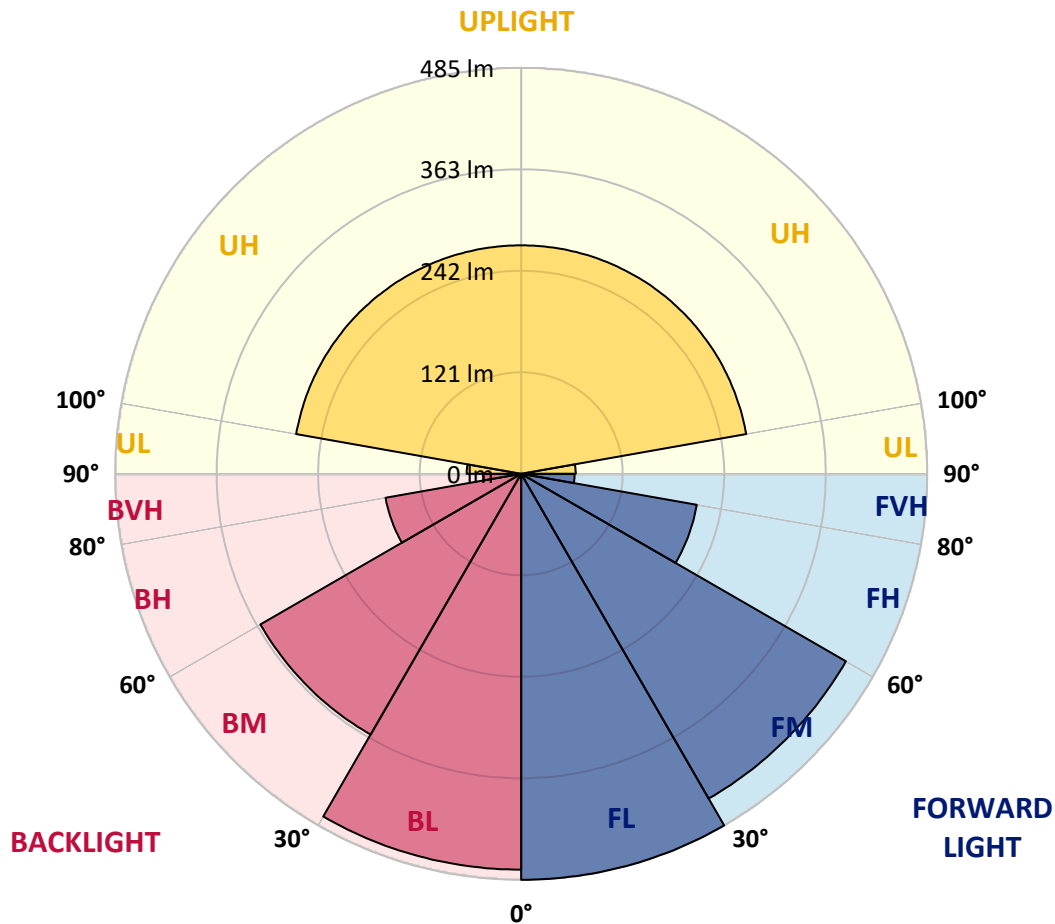
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	484.6	18.7			
FM	(30°-60°)	447.6	17.3			
FH	(60°-80°)	212.9	8.2			G0/660
FVH	(80°-90°)	63.8	2.5			G1/100
BL	(0°-30°)	472.5	18.3	B1/500		
BM	(30°-60°)	359.5	13.9	B1/1000		
BH	(60°-80°)	164.3	6.3	B1/500		G1/500
BVH	(80°-90°)	45.1	1.7			G1/100
UL	(90°-100°)	65.1	2.5		U3/500	
UH	(100°-180°)	272.7	10.5		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°	2245.7	2245.7	2245.7	2245.7	2245.7	2245.7	2245.7	2245.7	2245.7	2245.7	2245.7
2.5°	1851.4	1861.8	1884.6	1896.0	1907.4	1922.0	1943.8	1960.4	1998.8	2034.0	2048.6
5°	1527.6	1546.3	1589.9	1625.2	1664.6	1706.1	1750.7	1790.2	1841.0	1887.7	1914.7
7.5°	1312.8	1328.4	1380.2	1448.7	1518.3	1576.4	1622.0	1652.1	1675.0	1693.6	1713.4
10°	1182.0	1195.5	1247.4	1308.6	1367.8	1421.8	1460.1	1489.2	1497.5	1516.2	1525.5
12.5°	1144.7	1150.9	1187.2	1229.8	1266.1	1319.0	1364.7	1395.8	1409.3	1425.9	1431.1
15°	1145.7	1145.7	1166.5	1193.4	1226.7	1267.1	1318.0	1355.3	1375.1	1384.4	1383.4
17.5°	1161.3	1160.2	1169.6	1191.4	1219.4	1259.9	1311.7	1350.1	1373.0	1376.1	1373.0
20°	1161.3	1162.3	1165.4	1190.3	1217.3	1253.6	1306.6	1338.7	1356.4	1347.0	1336.7
22.5°	1043.0	1041.9	1068.9	1121.8	1194.5	1270.2	1318.0	1357.4	1361.6	1327.3	1299.3
25°	861.4	854.1	869.7	893.5	942.3	1030.5	1130.1	1279.6	1368.8	1349.1	1306.6
27.5°	747.2	737.9	751.3	741.0	735.8	729.6	723.3	705.7	717.1	727.5	773.1
30°	563.5	565.6	568.7	574.9	587.4	612.3	638.2	653.8	667.3	694.3	691.2
32.5°	551.1	550.0	551.1	557.3	563.5	579.1	594.6	602.9	613.3	639.3	633.0
35°	509.5	507.5	514.7	517.8	516.8	521.0	536.5	545.9	555.2	571.8	565.6
37.5°	448.3	450.4	466.0	474.3	477.4	486.7	499.2	507.5	518.9	531.3	528.2
40°	402.7	401.6	418.2	429.6	436.9	451.4	470.1	482.6	501.2	511.6	504.4
42.5°	346.6	350.8	363.2	374.6	376.7	384.0	400.6	415.1	437.9	453.5	449.4
45°	291.6	294.7	305.1	314.4	321.7	331.1	343.5	356.0	374.6	387.1	386.1
47.5°	257.4	260.5	268.8	280.2	290.6	304.1	316.5	329.0	346.6	356.0	352.8
50°	243.9	246.0	255.3	267.7	283.3	299.9	316.5	330.0	346.6	352.8	347.7
52.5°	242.8	242.8	254.3	272.9	294.7	317.6	339.4	358.0	373.6	373.6	363.2
55°	228.3	230.4	244.9	269.8	303.0	340.4	378.8	414.1	434.8	430.7	411.0
57.5°	207.6	208.6	224.2	248.0	283.3	329.0	380.9	425.5	450.4	455.6	434.8
60°	195.1	196.1	206.5	229.3	259.4	295.8	343.5	378.8	403.7	419.3	402.7
62.5°	184.7	184.7	195.1	210.7	235.6	262.6	289.5	313.4	333.1	344.5	335.2
65°	173.3	173.3	180.6	195.1	214.8	240.8	261.5	279.2	296.8	305.1	296.8
67.5°	161.9	161.9	169.2	182.6	200.3	222.1	242.8	259.4	277.1	283.3	277.1
70°	150.5	150.5	157.7	169.2	185.8	206.5	222.1	239.7	256.3	260.5	255.3
72.5°	139.1	139.1	146.3	156.7	171.2	191.0	205.5	219.0	234.5	237.7	232.5
75°	128.7	128.7	133.9	144.3	157.7	175.4	189.9	202.4	214.8	214.8	210.7
77.5°	117.3	118.3	122.5	131.8	144.3	160.9	174.3	185.8	196.1	196.1	191.0
80°	105.9	106.9	111.0	119.3	130.8	146.3	158.8	169.2	178.5	178.5	173.3
82.5°	94.4	95.5	99.6	106.9	117.3	131.8	144.3	154.6	162.9	161.9	156.7
85°	84.1	85.1	88.2	94.4	103.8	118.3	129.7	139.1	146.3	145.3	141.1
87.5°	73.7	74.7	77.8	83.0	91.3	104.8	116.2	124.5	130.8	129.7	125.6
90°	64.3	64.3	67.5	72.6	79.9	91.3	101.7	109.0	115.2	113.1	109.0
92.5°	56.0	57.1	59.2	63.3	69.5	79.9	89.2	95.5	101.7	100.7	96.5
95°	49.8	49.8	51.9	55.0	60.2	68.5	77.8	83.0	87.2	87.2	84.1
97.5°	43.6	44.6	45.7	47.7	51.9	58.1	65.4	70.6	73.7	73.7	71.6
100°	39.4	40.5	40.5	42.5	44.6	48.8	54.0	58.1	61.2	61.2	60.2
102.5°	37.4	37.4	37.4	38.4	39.4	41.5	44.6	46.7	48.8	49.8	48.8
105°	35.3	35.3	35.3	36.3	36.3	38.4	39.4	41.5	42.5	42.5	41.5
107.5°	34.2	34.2	35.3	35.3	35.3	36.3	38.4	38.4	39.4	38.4	38.4
110°	35.3	35.3	35.3	35.3	35.3	36.3	37.4	37.4	37.4	37.4	36.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	36.3	36.3	36.3	36.3	37.4	37.4	37.4	38.4	38.4	37.4	37.4
115°	39.4	39.4	39.4	39.4	39.4	40.5	40.5	40.5	40.5	39.4	38.4
117.5°	42.5	42.5	42.5	43.6	43.6	44.6	43.6	44.6	43.6	42.5	42.5
120°	47.7	47.7	48.8	49.8	50.9	50.9	49.8	50.9	50.9	48.8	47.7
122.5°	54.0	54.0	55.0	58.1	59.2	60.2	59.2	59.2	59.2	57.1	56.0
125°	60.2	61.2	63.3	67.5	70.6	72.6	70.6	71.6	71.6	68.5	67.5
127.5°	67.5	68.5	72.6	78.9	84.1	86.1	85.1	86.1	87.2	82.0	79.9
130°	74.7	74.7	80.9	90.3	97.6	100.7	101.7	102.7	103.8	98.6	94.4
132.5°	80.9	80.9	89.2	100.7	110.0	115.2	117.3	119.3	121.4	114.2	109.0
135°	85.1	86.1	96.5	110.0	121.4	128.7	131.8	133.9	137.0	128.7	122.5
137.5°	88.2	90.3	100.7	115.2	127.6	138.0	144.3	147.4	149.4	141.1	132.8
140°	89.2	90.3	101.7	116.2	128.7	140.1	149.4	154.6	155.7	147.4	139.1
142.5°	86.1	88.2	98.6	113.1	125.6	138.0	148.4	153.6	154.6	147.4	139.1
145°	82.0	83.0	92.4	105.9	118.3	131.8	143.2	148.4	148.4	142.2	133.9
147.5°	74.7	75.8	84.1	95.5	107.9	121.4	132.8	138.0	139.1	132.8	125.6
150°	64.3	65.4	71.6	80.9	93.4	106.9	117.3	123.5	123.5	117.3	112.1
152.5°	51.9	52.9	58.1	65.4	75.8	88.2	97.6	103.8	103.8	99.6	93.4
155°	40.5	40.5	44.6	50.9	58.1	67.5	74.7	79.9	80.9	76.8	72.6
157.5°	29.1	29.1	32.2	37.4	43.6	50.9	56.0	60.2	60.2	57.1	55.0
160°	19.7	19.7	21.8	24.9	29.1	34.2	38.4	42.5	42.5	40.5	38.4
162.5°	10.4	10.4	12.5	14.5	17.6	21.8	23.9	27.0	27.0	25.9	24.9
165°	3.1	3.1	4.2	5.2	7.3	9.3	10.4	12.5	13.5	12.5	11.4
167.5°	0.0	0.0	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°	179°	180°
0°	2245.7	2245.7	2245.7	2245.7	2245.7	2245.7	2245.7	2245.7	2245.7	2245.7	2245.7
2.5°	2064.1	2129.5	2188.7	2249.9	2325.7	2392.1	2463.7	2514.5	2536.3	2536.3	2544.6
5°	1934.4	1980.1	2027.8	2081.8	2172.1	2283.1	2410.8	2515.6	2575.8	2585.1	2584.1
7.5°	1719.6	1750.7	1799.5	1859.7	1942.7	2042.3	2206.3	2370.3	2479.2	2499.0	2491.7
10°	1530.7	1559.8	1588.8	1611.7	1670.8	1749.7	1870.1	2029.9	2155.5	2175.2	2159.6
12.5°	1434.2	1443.5	1442.5	1456.0	1479.9	1519.3	1580.5	1672.9	1759.0	1777.7	1764.2
15°	1383.4	1369.9	1349.1	1325.2	1323.2	1329.4	1345.0	1382.3	1418.6	1434.2	1423.8
17.5°	1362.6	1330.4	1287.9	1241.2	1210.0	1181.0	1161.3	1148.8	1154.0	1155.0	1146.7
20°	1313.8	1275.4	1206.9	1140.5	1090.7	1039.9	996.3	964.1	958.9	953.7	947.5
22.5°	1258.8	1193.4	1111.5	1030.5	956.8	889.4	840.6	802.2	787.7	792.9	789.7
25°	1247.4	1138.4	1038.8	908.1	814.7	738.9	647.6	585.3	557.3	572.9	562.5
27.5°	748.2	751.3	695.3	616.4	549.0	504.4	463.9	430.7	412.0	412.0	414.1
30°	677.7	647.6	610.2	561.4	502.3	457.7	413.0	376.7	357.0	351.8	353.9
32.5°	619.6	598.8	563.5	516.8	462.8	417.2	370.5	337.3	318.6	317.6	316.5
35°	557.3	535.5	506.4	466.0	419.3	376.7	336.2	307.2	290.6	291.6	291.6
37.5°	514.7	495.0	469.1	430.7	388.1	345.6	309.3	282.3	268.8	268.8	267.7
40°	492.9	470.1	442.1	406.8	367.4	322.7	288.5	262.6	251.1	251.1	250.1
42.5°	445.2	425.5	406.8	370.5	331.1	294.7	262.6	239.7	228.3	228.3	228.3
45°	377.8	366.3	351.8	326.9	294.7	264.6	237.7	215.9	206.5	205.5	205.5
47.5°	348.7	336.2	318.6	295.8	269.8	241.8	215.9	200.3	191.0	191.0	191.0
50°	340.4	325.9	302.0	275.0	248.0	223.1	200.3	185.8	177.5	177.5	178.5
52.5°	351.8	327.9	295.8	262.6	234.5	206.5	186.8	172.3	166.0	166.0	165.0
55°	391.2	346.6	299.9	259.4	224.2	194.1	173.3	157.7	150.5	150.5	150.5
57.5°	413.0	360.1	303.0	255.3	214.8	184.7	162.9	146.3	139.1	139.1	139.1
60°	388.1	344.5	290.6	247.0	207.6	176.4	153.6	138.0	130.8	129.7	128.7
62.5°	324.8	297.8	259.4	223.1	192.0	165.0	146.3	130.8	123.5	123.5	122.5
65°	289.5	266.7	233.5	202.4	176.4	153.6	135.9	123.5	116.2	115.2	115.2
67.5°	269.8	249.1	215.9	186.8	162.9	142.2	125.6	114.2	109.0	106.9	106.9
70°	248.0	225.2	196.1	170.2	148.4	129.7	116.2	104.8	99.6	98.6	97.6
72.5°	226.2	205.5	178.5	153.6	133.9	118.3	105.9	95.5	90.3	89.2	89.2
75°	203.4	183.7	157.7	137.0	120.4	105.9	94.4	86.1	82.0	80.9	79.9
77.5°	184.7	167.1	142.2	122.5	106.9	95.5	85.1	77.8	73.7	73.7	72.6
80°	167.1	150.5	126.6	109.0	95.5	84.1	75.8	69.5	66.4	65.4	65.4
82.5°	150.5	133.9	112.1	96.5	84.1	74.7	66.4	61.2	58.1	58.1	58.1
85°	134.9	119.3	99.6	85.1	73.7	65.4	58.1	52.9	50.9	49.8	50.9
87.5°	119.3	104.8	88.2	74.7	64.3	56.0	49.8	45.7	43.6	43.6	43.6
90°	104.8	91.3	75.8	63.3	55.0	47.7	42.5	38.4	37.4	36.3	36.3
92.5°	92.4	80.9	67.5	57.1	48.8	43.6	38.4	35.3	33.2	33.2	33.2
95°	80.9	70.6	60.2	50.9	44.6	39.4	35.3	32.2	31.1	31.1	31.1
97.5°	69.5	61.2	52.9	45.7	40.5	36.3	32.2	30.1	29.1	28.0	29.1
100°	58.1	51.9	45.7	40.5	36.3	32.2	29.1	27.0	25.9	25.9	25.9
102.5°	46.7	43.6	38.4	34.2	31.1	29.1	25.9	23.9	22.8	22.8	22.8
105°	40.5	37.4	34.2	31.1	29.1	25.9	23.9	21.8	20.8	20.8	20.8
107.5°	37.4	35.3	32.2	30.1	27.0	24.9	22.8	19.7	18.7	18.7	18.7
110°	36.3	34.2	32.2	29.1	27.0	24.9	22.8	18.7	17.6	17.6	17.6

REPORT NUMBER: P691038

CATALOG NUMBER: CRTK2-C013-5TLD-U-T2-8027-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	36.3	34.2	32.2	30.1	28.0	24.9	22.8	18.7	16.6	16.6	16.6
115°	38.4	36.3	34.2	32.2	29.1	25.9	23.9	18.7	16.6	16.6	16.6
117.5°	41.5	39.4	37.4	34.2	31.1	28.0	23.9	18.7	17.6	17.6	17.6
120°	46.7	44.6	41.5	38.4	34.2	30.1	25.9	19.7	16.6	17.6	17.6
122.5°	54.0	51.9	47.7	42.5	38.4	33.2	27.0	20.8	15.6	17.6	17.6
125°	64.3	61.2	55.0	48.8	42.5	36.3	29.1	21.8	16.6	18.7	18.7
127.5°	75.8	71.6	63.3	55.0	47.7	39.4	31.1	22.8	17.6	18.7	18.7
130°	89.2	82.0	71.6	61.2	51.9	42.5	33.2	23.9	18.7	18.7	18.7
132.5°	102.7	92.4	78.9	67.5	56.0	44.6	34.2	23.9	18.7	18.7	18.7
135°	114.2	101.7	86.1	71.6	58.1	45.7	35.3	23.9	18.7	18.7	18.7
137.5°	124.5	107.9	90.3	73.7	59.2	45.7	34.2	23.9	17.6	17.6	17.6
140°	129.7	111.0	92.4	73.7	58.1	44.6	32.2	21.8	16.6	16.6	16.6
142.5°	129.7	110.0	90.3	71.6	56.0	42.5	30.1	20.8	14.5	15.6	15.6
145°	125.6	105.9	86.1	67.5	51.9	38.4	27.0	17.6	13.5	13.5	13.5
147.5°	116.2	97.6	78.9	61.2	46.7	33.2	23.9	15.6	11.4	10.4	11.4
150°	103.8	86.1	68.5	52.9	39.4	28.0	19.7	12.5	9.3	9.3	9.3
152.5°	87.2	71.6	57.1	43.6	31.1	21.8	14.5	9.3	7.3	7.3	7.3
155°	68.5	56.0	44.6	33.2	23.9	16.6	11.4	7.3	5.2	5.2	5.2
157.5°	51.9	42.5	33.2	23.9	17.6	12.5	8.3	5.2	4.2	4.2	4.2
160°	36.3	29.1	22.8	16.6	11.4	8.3	5.2	3.1	2.1	2.1	2.1
162.5°	22.8	18.7	14.5	9.3	7.3	5.2	3.1	2.1	1.0	1.0	1.0
165°	10.4	9.3	6.2	4.2	3.1	2.1	1.0	1.0	0.0	0.0	0.0
167.5°	3.1	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)