

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: P691169

Luminaire Tested: **CRTK2-C013-D-U-T5R-7030-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-23)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C013-D-U-T5R-7030-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K LED WITH TYPE V ROUND OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2582 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type V - Short
BUG Rating: B2 - U3 - G1

Input Watts (W): 20.4
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



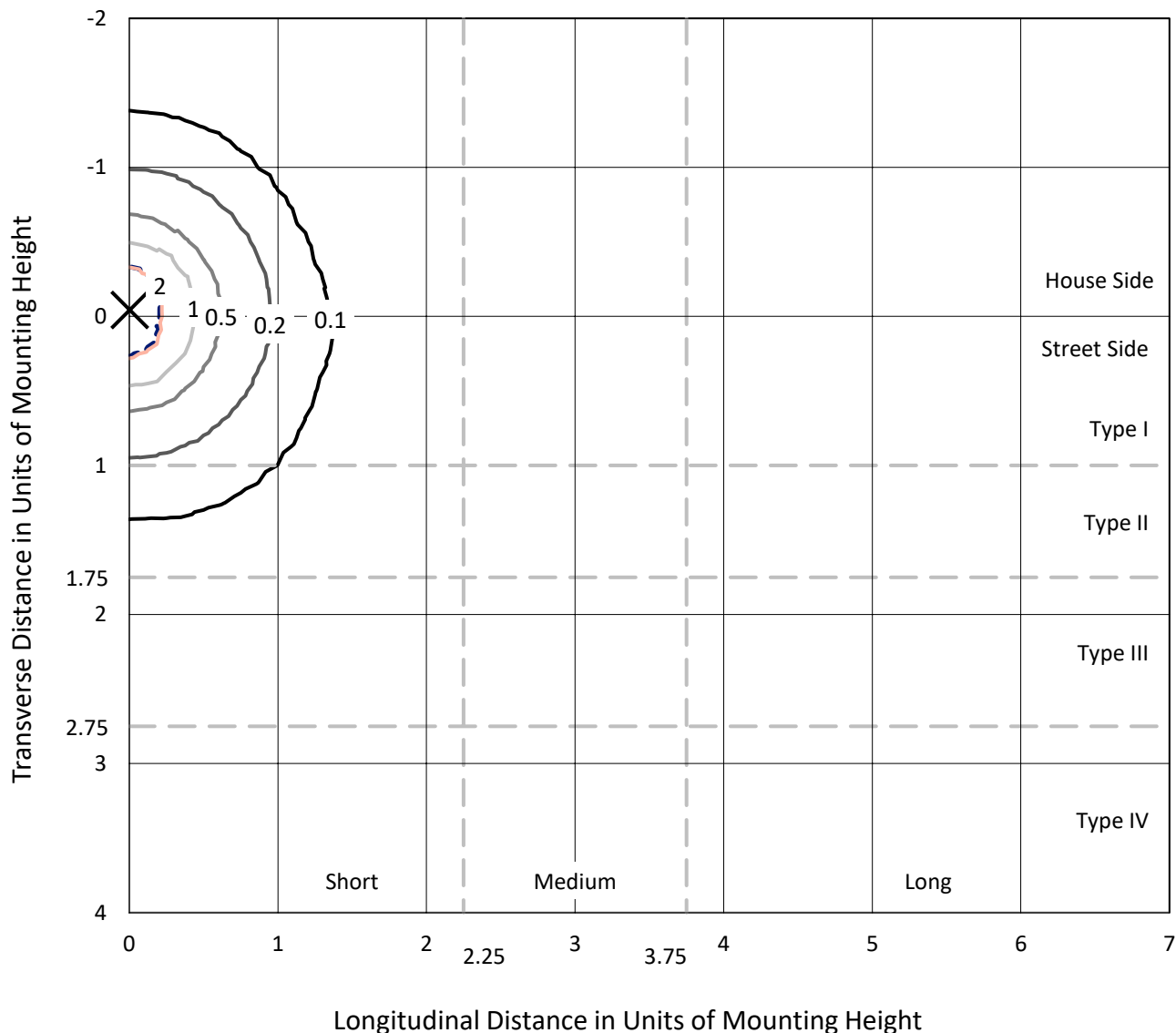
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

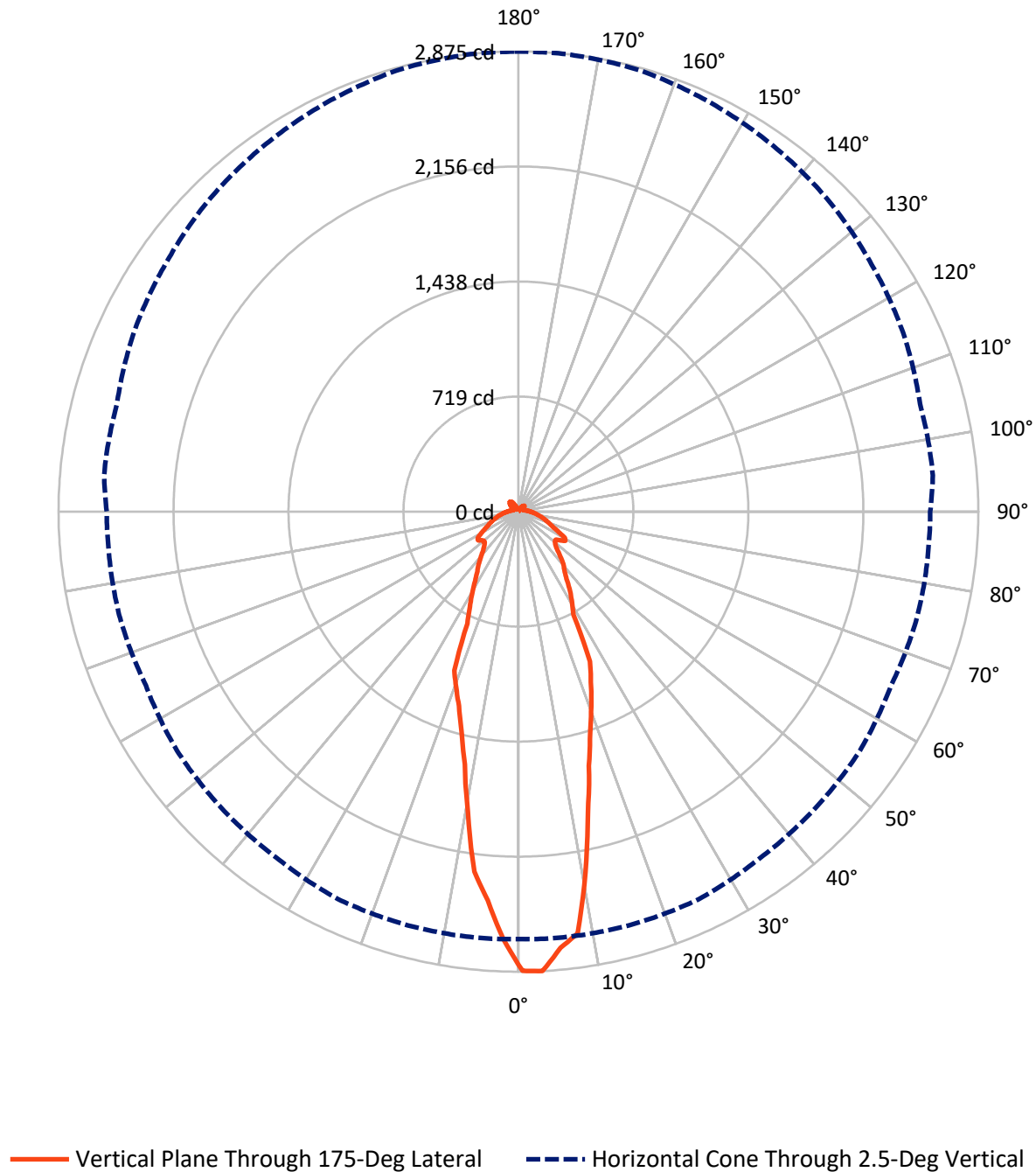


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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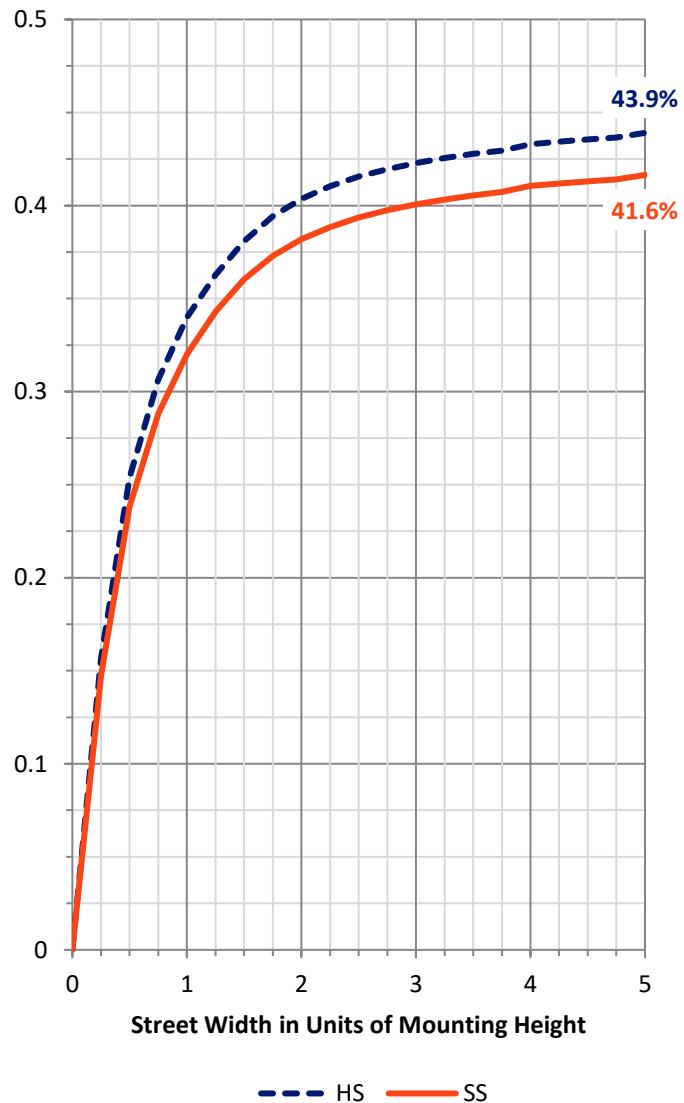
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1168.6	154.4	1322.9
	% Fixture	45.3	6.0	51.2
Street Side	Lumens	1100.6	158.4	1259.1
	% Fixture	42.6	6.1	48.8
Total	Lumens	2269.2	312.8	2582.0
	% Fixture	87.9	12.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.6	8.3
10°-20°	374.9	14.5
20°-30°	371.8	14.4
30°-40°	286.6	11.1
40°-50°	245.7	9.5
50°-60°	274.8	10.6
60°-70°	235.4	9.1
70°-80°	162.0	6.3
80°-90°	104.3	4.0
90°-100°	62.5	2.4
100°-110°	37.2	1.4
110°-120°	34.4	1.3
120°-130°	49.1	1.9
130°-140°	63.5	2.5
140°-150°	47.0	1.8
150°-160°	17.2	0.7
160°-170°	2.0	0.1
170°-180°	0.0	0.0
0°-90°	2269.2	87.9
0°-180°	2582.0	100.0

Coefficient of Utilization



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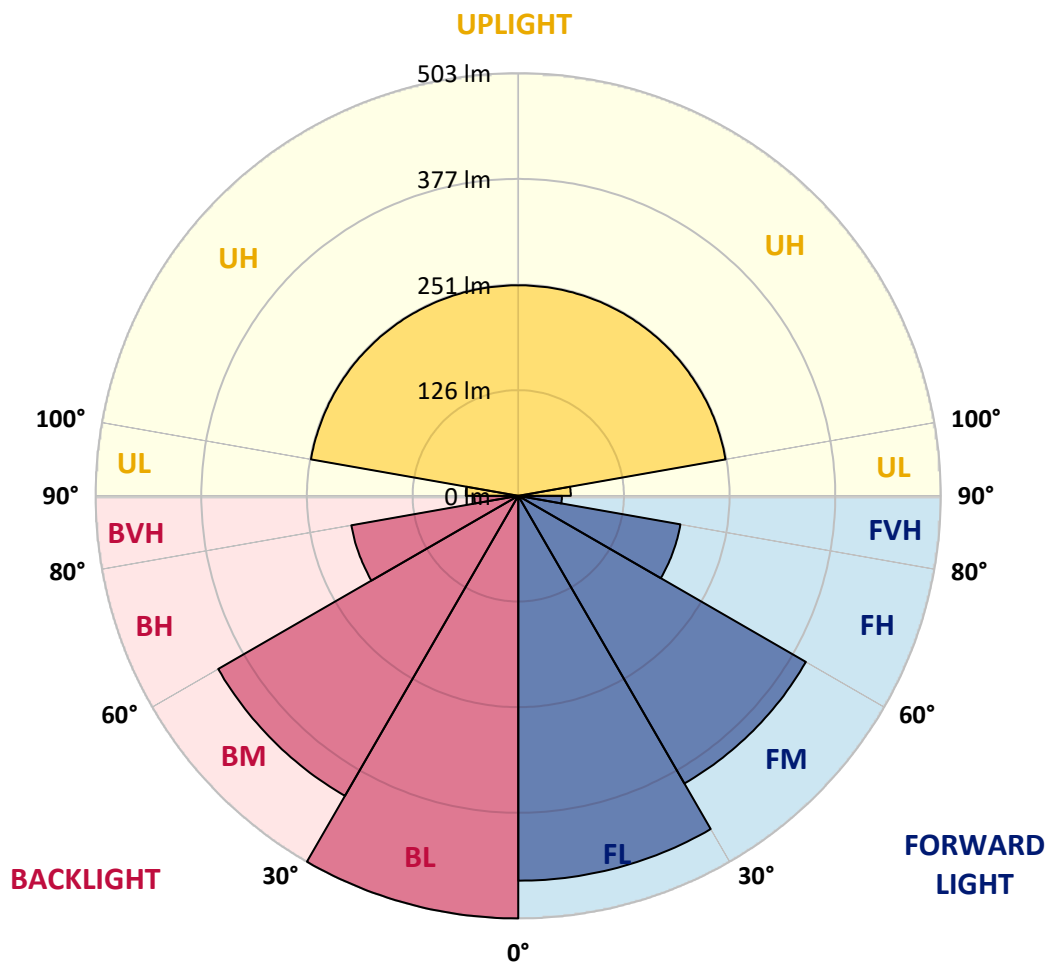
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	457.7	17.7			
FM	(30°-60°)	395.0	15.3			
FH	(60°-80°)	195.8	7.6			G0/660
FVH	(80°-90°)	52.0	2.0			G1/100
BL	(0°-30°)	502.6	19.5	B2/1000		
BM	(30°-60°)	412.1	16.0	B1/1000		
BH	(60°-80°)	201.6	7.8	B1/500		G0/660
BVH	(80°-90°)	52.3	2.0			G1/100
UL	(90°-100°)	62.5	2.4		U3/500	
UH	(100°-180°)	250.3	9.7		U3/500	

BUG Rating: B2-U3-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2869.4	2869.4	2869.4	2869.4	2869.4	2869.4	2869.4	2869.4	2869.4	2869.4	2869.4
2.5°	2671.2	2675.1	2676.1	2671.2	2639.2	2622.7	2605.2	2570.2	2578.0	2573.1	2574.1
5°	2422.6	2438.1	2413.8	2407.0	2358.4	2322.5	2287.5	2249.7	2240.9	2225.4	2231.2
7.5°	2257.4	2266.2	2226.3	2185.5	2107.8	2052.5	1994.2	1935.9	1892.2	1875.7	1882.5
10°	1879.6	1908.7	1868.9	1827.1	1753.3	1687.2	1626.0	1568.7	1528.9	1516.3	1518.2
12.5°	1597.9	1614.4	1580.4	1552.2	1469.7	1406.5	1350.2	1296.8	1264.7	1251.1	1251.1
15°	1411.4	1418.2	1391.9	1337.6	1275.4	1218.1	1170.5	1131.6	1105.4	1100.5	1102.5
17.5°	1270.5	1270.5	1244.3	1201.6	1154.0	1103.5	1070.4	1041.3	1029.6	1033.5	1034.5
20°	1164.7	1165.6	1142.3	1100.5	1059.7	1014.1	986.9	966.5	959.7	966.5	967.5
22.5°	1064.6	1069.5	1044.2	1013.1	968.4	932.5	910.2	887.8	883.9	886.8	886.8
25°	770.3	770.3	761.5	737.3	747.0	750.9	777.1	833.4	821.8	832.4	831.5
27.5°	664.4	668.3	650.8	629.4	607.1	580.9	576.0	571.2	566.3	588.6	596.4
30°	586.7	588.6	574.1	559.5	541.0	526.5	522.6	522.6	517.7	535.2	534.2
32.5°	512.9	510.0	506.1	492.5	480.8	468.2	471.1	469.2	469.2	484.7	485.7
35°	454.6	453.6	450.7	441.0	429.3	419.6	422.5	424.5	423.5	433.2	433.2
37.5°	411.9	412.8	410.9	407.0	395.3	387.6	389.5	387.6	390.5	397.3	397.3
40°	370.1	370.1	371.1	370.1	362.3	359.4	365.2	362.3	369.1	374.0	372.0
42.5°	330.3	331.2	333.2	331.2	326.4	323.5	326.4	327.3	337.1	343.9	342.9
45°	305.0	305.0	306.0	305.0	301.1	298.2	298.2	295.3	302.1	306.0	305.0
47.5°	288.5	288.5	290.4	289.5	287.5	284.6	282.7	278.8	281.7	284.6	281.7
50°	282.7	282.7	286.5	286.5	285.6	282.7	279.7	274.9	275.9	277.8	273.9
52.5°	291.4	291.4	298.2	301.1	301.1	296.3	292.4	285.6	285.6	287.5	281.7
55°	309.9	309.9	320.5	326.4	327.3	327.3	322.5	315.7	316.7	320.5	314.7
57.5°	303.1	304.0	312.8	320.5	325.4	328.3	328.3	324.4	327.3	337.1	334.1
60°	271.0	273.0	278.8	285.6	294.3	297.2	297.2	296.3	301.1	312.8	312.8
62.5°	240.9	241.9	244.8	250.6	255.5	257.4	257.4	253.5	259.4	265.2	263.2
65°	217.6	216.6	222.4	227.3	230.2	233.1	230.2	226.3	229.2	233.1	232.2
67.5°	198.2	198.2	203.0	206.9	208.8	211.8	209.8	207.9	211.8	213.7	211.8
70°	179.7	180.7	184.6	187.5	189.4	192.3	189.4	188.4	192.3	194.3	193.3
72.5°	161.2	162.2	165.1	169.0	171.0	171.9	171.0	170.0	172.9	174.8	174.8
75°	144.7	145.7	147.6	151.5	151.5	153.5	152.5	151.5	154.4	156.4	156.4
77.5°	129.2	131.1	132.1	135.0	136.0	137.0	136.0	136.0	137.9	139.9	140.8
80°	115.6	116.6	117.5	120.4	120.4	121.4	120.4	120.4	122.4	125.3	125.3
82.5°	103.0	103.9	104.9	106.8	105.9	106.8	106.8	106.8	108.8	111.7	111.7
85°	90.3	92.3	92.3	94.2	94.2	94.2	94.2	95.2	96.2	99.1	99.1
87.5°	79.7	80.6	81.6	82.6	82.6	83.5	83.5	84.5	85.5	87.4	88.4
90°	69.0	69.9	70.9	70.9	70.9	71.9	71.9	72.9	73.8	75.8	76.7
92.5°	61.2	62.2	62.2	63.1	63.1	63.1	64.1	65.1	66.1	68.0	68.0
95°	54.4	55.4	55.4	55.4	55.4	56.3	56.3	57.3	58.3	60.2	60.2
97.5°	48.6	48.6	48.6	48.6	48.6	49.5	49.5	50.5	51.5	52.5	52.5
100°	42.7	42.7	42.7	42.7	42.7	42.7	42.7	43.7	43.7	45.7	45.7
102.5°	37.9	37.9	36.9	36.9	36.9	35.9	35.9	36.9	36.9	37.9	37.9
105°	34.0	34.0	34.0	34.0	33.0	33.0	33.0	33.0	33.0	34.0	34.0
107.5°	33.0	33.0	32.1	32.1	32.1	31.1	31.1	31.1	31.1	32.1	32.1
110°	32.1	32.1	32.1	32.1	31.1	31.1	30.1	30.1	30.1	31.1	31.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	33.0	33.0	33.0	32.1	32.1	31.1	31.1	31.1	31.1	31.1	32.1
115°	35.0	34.0	34.0	34.0	34.0	33.0	32.1	32.1	33.0	33.0	33.0
117.5°	37.9	36.9	36.9	37.9	36.9	35.9	35.0	35.0	35.9	35.9	36.9
120°	41.8	40.8	41.8	41.8	41.8	40.8	39.8	38.9	39.8	40.8	40.8
122.5°	46.6	45.7	46.6	47.6	47.6	46.6	44.7	44.7	45.7	46.6	47.6
125°	52.5	52.5	53.4	54.4	55.4	53.4	52.5	51.5	53.4	54.4	54.4
127.5°	59.3	58.3	60.2	63.1	64.1	62.2	60.2	59.3	61.2	63.1	63.1
130°	66.1	65.1	68.0	70.9	72.9	70.9	69.0	68.0	69.9	71.9	71.9
132.5°	71.9	70.9	74.8	78.7	80.6	79.7	77.7	75.8	78.7	80.6	79.7
135°	76.7	76.7	81.6	85.5	87.4	86.5	84.5	82.6	86.5	88.4	86.5
137.5°	79.7	79.7	85.5	89.4	91.3	91.3	90.3	88.4	92.3	93.2	90.3
140°	79.7	80.6	85.5	89.4	90.3	91.3	91.3	90.3	94.2	94.2	91.3
142.5°	76.7	77.7	82.6	86.5	87.4	88.4	89.4	88.4	91.3	91.3	89.4
145°	71.9	72.9	77.7	81.6	81.6	82.6	84.5	83.5	85.5	86.5	84.5
147.5°	65.1	66.1	69.9	71.9	72.9	74.8	76.7	76.7	77.7	78.7	77.7
150°	56.3	56.3	59.3	61.2	62.2	64.1	66.1	67.0	67.0	68.0	67.0
152.5°	44.7	44.7	46.6	48.6	49.5	52.5	53.4	54.4	55.4	56.3	55.4
155°	34.0	34.0	35.0	35.9	36.9	39.8	40.8	41.8	42.7	43.7	42.7
157.5°	24.3	24.3	25.3	26.2	27.2	29.1	30.1	31.1	31.1	32.1	32.1
160°	15.5	16.5	16.5	17.5	17.5	19.4	20.4	20.4	21.4	22.3	22.3
162.5°	7.8	8.7	8.7	9.7	10.7	11.7	12.6	12.6	13.6	13.6	13.6
165°	1.9	2.9	2.9	3.9	3.9	4.9	5.8	5.8	6.8	6.8	6.8
167.5°	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9	1.9	1.9
170°	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0
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°	2869.4	2869.4	2869.4	2869.4	2869.4	2869.4	2869.4	2869.4	2869.4	2869.4	2869.4
2.5°	2600.3	2598.4	2651.8	2694.5	2745.0	2784.9	2823.7	2860.6	2875.2	2874.2	2875.2
5°	2257.4	2291.4	2361.4	2430.3	2511.9	2588.7	2660.5	2708.1	2738.2	2738.2	2741.2
7.5°	1913.6	1968.0	2054.4	2164.2	2286.6	2386.6	2508.0	2593.5	2661.5	2659.6	2672.2
10°	1545.4	1588.2	1674.6	1792.1	1927.2	2042.8	2148.6	2228.3	2294.3	2290.5	2307.0
12.5°	1269.6	1299.7	1374.5	1481.3	1604.7	1716.4	1820.3	1882.5	1929.1	1928.1	1936.9
15°	1107.3	1138.4	1187.0	1260.8	1362.8	1461.9	1565.8	1622.2	1648.4	1645.5	1660.0
17.5°	1041.3	1053.9	1084.0	1133.6	1207.4	1288.0	1370.6	1419.1	1449.3	1445.4	1456.1
20°	970.4	982.0	1002.4	1039.3	1091.8	1153.0	1222.9	1276.4	1298.7	1297.7	1304.5
22.5°	888.8	894.6	917.0	946.1	984.0	1033.5	1086.9	1135.5	1157.9	1156.9	1163.7
25°	832.4	842.2	855.8	873.2	899.5	938.3	983.0	1017.0	1037.4	1035.5	1044.2
27.5°	608.1	617.8	624.6	635.3	636.2	668.3	683.8	712.0	730.5	729.5	735.3
30°	534.2	536.2	542.0	556.6	565.3	590.6	621.7	643.0	658.6	664.4	668.3
32.5°	487.6	493.4	500.2	507.0	517.7	533.3	557.6	577.0	593.5	596.4	603.2
35°	434.2	438.1	442.9	449.7	456.5	469.2	487.6	503.2	515.8	520.6	524.5
37.5°	396.3	397.3	402.1	409.9	415.7	426.4	442.9	454.6	467.2	468.2	472.1
40°	371.1	372.0	376.9	383.7	390.5	397.3	411.9	422.5	431.3	432.3	435.2
42.5°	341.9	344.8	346.8	349.7	354.5	360.4	373.0	378.8	384.7	385.6	389.5
45°	302.1	303.1	305.0	307.9	313.7	319.6	328.3	335.1	339.0	339.0	338.0
47.5°	279.7	280.7	280.7	284.6	289.5	295.3	303.1	308.9	310.8	310.8	310.8
50°	272.0	272.0	270.0	273.0	277.8	281.7	289.5	294.3	295.3	296.3	297.2
52.5°	277.8	275.9	270.0	273.0	277.8	281.7	289.5	291.4	291.4	293.3	294.3
55°	309.9	306.9	295.3	297.2	303.1	307.9	313.7	314.7	316.7	319.6	318.6
57.5°	330.3	332.2	318.6	321.5	332.2	336.1	342.9	341.9	345.8	349.7	350.7
60°	310.8	316.7	306.0	309.9	322.5	324.4	331.2	327.3	333.2	333.2	333.2
62.5°	264.2	266.2	260.3	266.2	277.8	277.8	282.7	279.7	281.7	279.7	280.7
65°	231.2	230.2	223.4	231.2	235.1	237.0	240.9	241.9	241.9	239.9	239.9
67.5°	210.8	208.8	203.0	205.0	208.8	209.8	215.6	216.6	215.6	215.6	216.6
70°	192.3	189.4	183.6	184.6	187.5	188.4	193.3	195.2	194.3	193.3	194.3
72.5°	173.9	171.0	165.1	165.1	168.0	170.0	173.9	175.8	173.9	173.9	174.8
75°	156.4	153.5	147.6	147.6	149.6	150.6	155.4	156.4	155.4	154.4	155.4
77.5°	140.8	138.9	133.1	133.1	134.0	135.0	137.9	138.9	137.9	137.0	137.9
80°	126.3	123.4	119.5	118.5	119.5	119.5	122.4	123.4	121.4	121.4	122.4
82.5°	112.7	109.8	105.9	105.9	104.9	105.9	107.8	108.8	107.8	106.8	107.8
85°	100.0	98.1	94.2	93.2	93.2	93.2	95.2	95.2	94.2	94.2	94.2
87.5°	88.4	86.5	82.6	82.6	81.6	82.6	83.5	83.5	82.6	82.6	82.6
90°	76.7	74.8	71.9	71.9	70.9	71.9	72.9	72.9	71.9	71.9	71.9
92.5°	68.0	67.0	64.1	64.1	63.1	64.1	64.1	64.1	63.1	63.1	63.1
95°	60.2	59.3	57.3	56.3	56.3	56.3	56.3	56.3	55.4	55.4	55.4
97.5°	52.5	51.5	49.5	49.5	48.6	49.5	49.5	49.5	48.6	48.6	48.6
100°	45.7	44.7	43.7	43.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
102.5°	37.9	37.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
105°	34.0	34.0	34.0	34.0	35.0	35.0	35.0	34.0	34.0	34.0	34.0
107.5°	32.1	32.1	32.1	33.0	33.0	33.0	34.0	32.1	31.1	31.1	31.1
110°	31.1	31.1	32.1	32.1	33.0	33.0	34.0	30.1	29.1	29.1	29.1



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CATALOG NUMBER: CRTK2-C013-D-U-T5R-7030-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	32.1	32.1	32.1	33.0	34.0	34.0	35.0	30.1	29.1	29.1	29.1
115°	34.0	34.0	34.0	35.0	35.9	36.9	36.9	32.1	30.1	30.1	31.1
117.5°	36.9	36.9	36.9	37.9	39.8	39.8	39.8	34.0	33.0	33.0	33.0
120°	40.8	41.8	41.8	42.7	44.7	45.7	43.7	38.9	33.0	35.9	35.9
122.5°	46.6	47.6	48.6	49.5	52.5	52.5	49.5	44.7	35.9	39.8	40.8
125°	54.4	55.4	56.3	58.3	61.2	61.2	57.3	50.5	40.8	44.7	45.7
127.5°	62.2	64.1	65.1	68.0	71.9	71.9	67.0	58.3	45.7	48.6	49.5
130°	70.9	72.9	74.8	78.7	83.5	81.6	77.7	66.1	49.5	51.5	51.5
132.5°	78.7	81.6	82.6	88.4	93.2	91.3	86.5	70.9	51.5	51.5	50.5
135°	84.5	86.5	87.4	93.2	98.1	95.2	89.4	72.9	50.5	48.6	48.6
137.5°	88.4	90.3	91.3	95.2	99.1	94.2	86.5	69.0	48.6	47.6	46.6
140°	90.3	90.3	90.3	93.2	95.2	89.4	79.7	62.2	43.7	45.7	45.7
142.5°	88.4	87.4	86.5	88.4	89.4	82.6	73.8	55.4	39.8	41.8	41.8
145°	83.5	81.6	80.6	81.6	81.6	73.8	64.1	47.6	35.0	35.9	35.9
147.5°	76.7	73.8	71.9	71.9	70.9	63.1	54.4	39.8	30.1	29.1	29.1
150°	66.1	63.1	61.2	61.2	58.3	51.5	43.7	31.1	24.3	24.3	24.3
152.5°	54.4	51.5	49.5	49.5	46.6	39.8	33.0	23.3	18.5	18.5	18.5
155°	42.7	39.8	37.9	36.9	35.0	30.1	24.3	17.5	13.6	13.6	13.6
157.5°	32.1	30.1	28.2	27.2	25.3	22.3	17.5	12.6	8.7	9.7	9.7
160°	22.3	20.4	19.4	18.5	17.5	14.6	11.7	7.8	4.9	4.9	4.9
162.5°	13.6	12.6	12.6	11.7	10.7	9.7	6.8	3.9	1.9	1.9	1.9
165°	6.8	6.8	5.8	5.8	4.9	3.9	2.9	1.0	0.0	0.0	0.0
167.5°	1.9	1.9	1.9	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
170°	1.0	1.0	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)