

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: P691590

Luminaire Tested: **CRTK2-C018-5TLD-U-T2-8027-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691590
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-C018-5TLD-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: 5777 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B3 - U4 - G2

Input Watts (W): 53.7
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



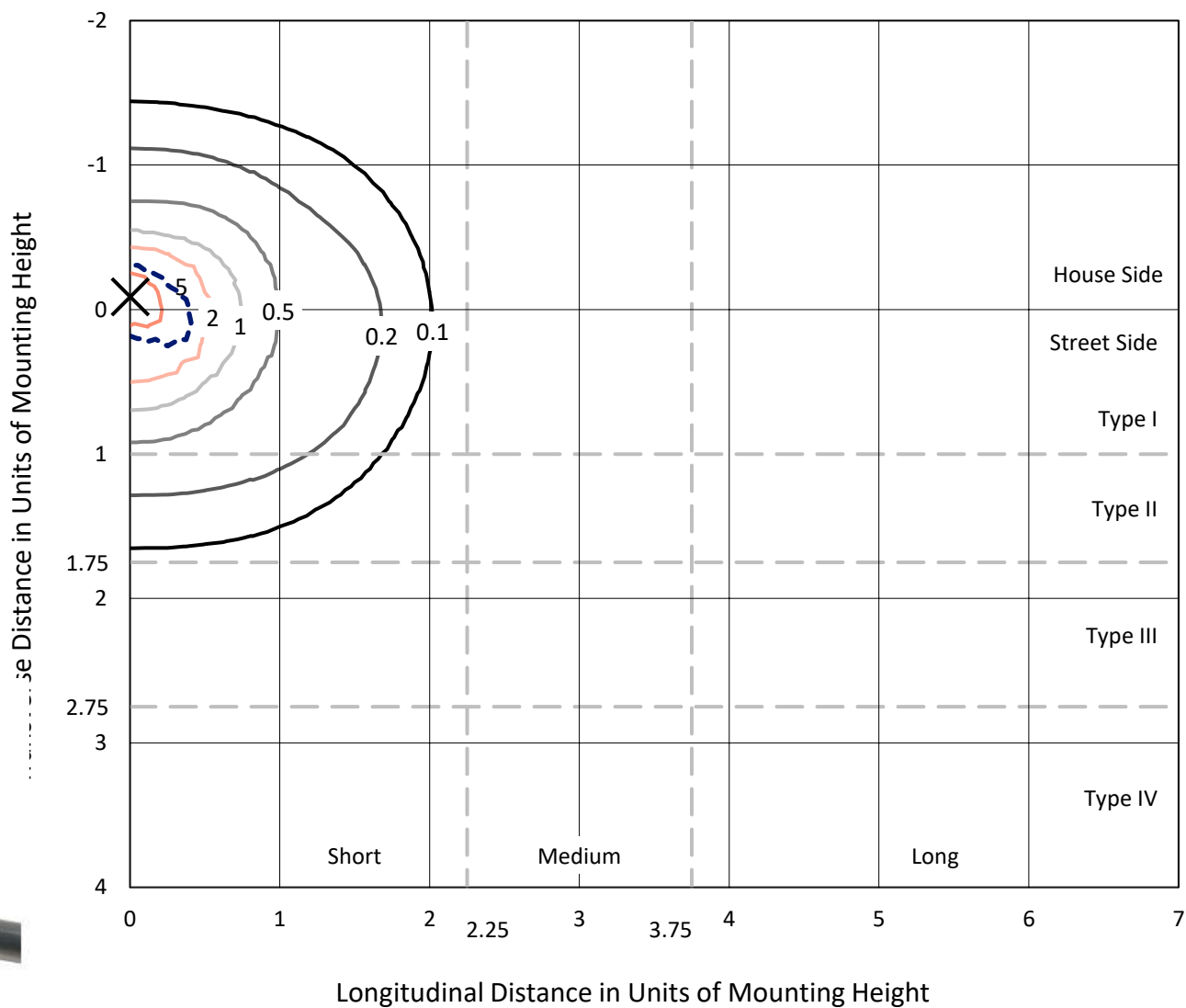
REPORT NUMBER: P691590

CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-8027-RMARROA5

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

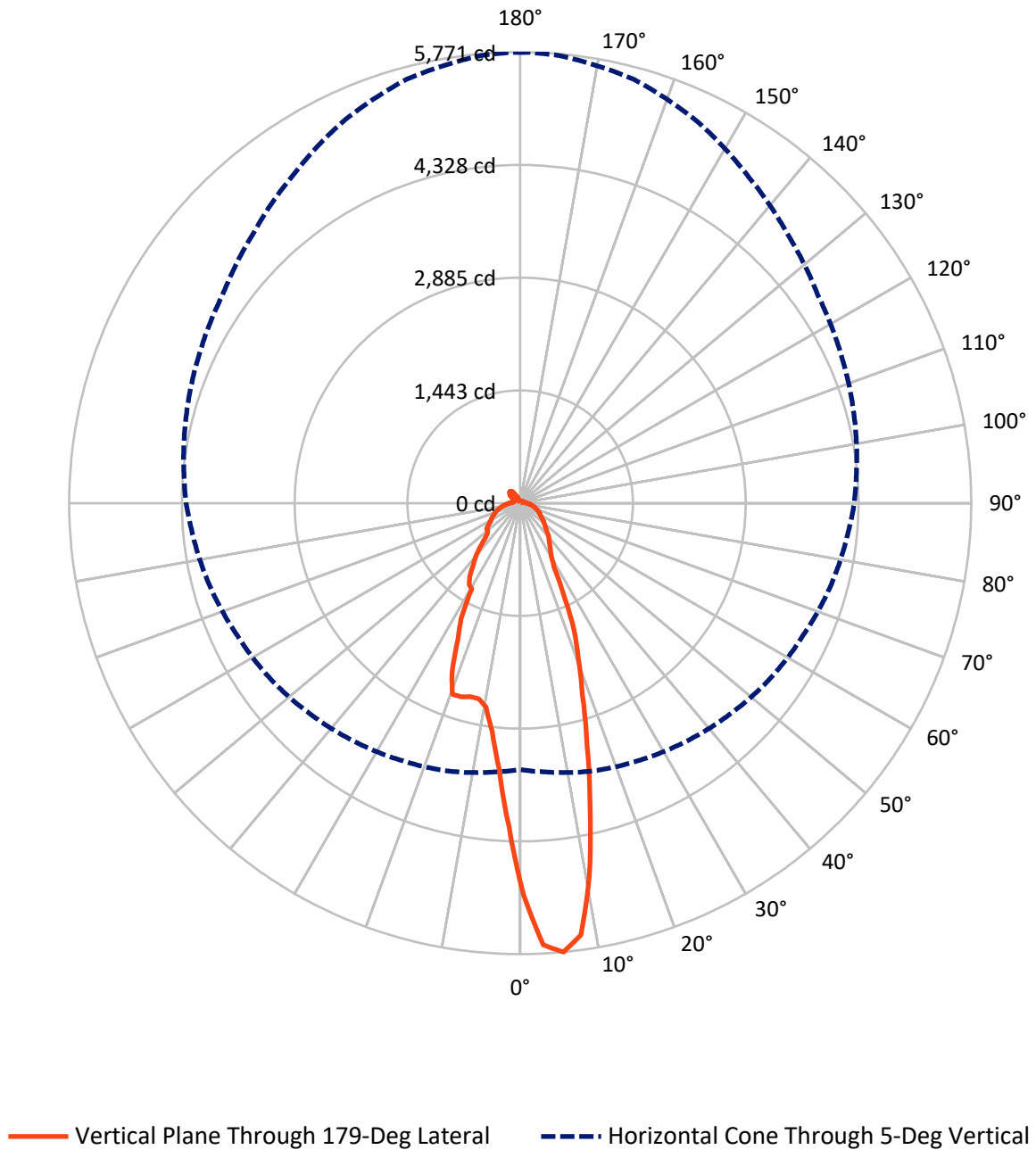


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type I - Short - N/A

REPORT NUMBER: P691590

CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-8027-RMARROA5

Luminous Intensity Polar Plot



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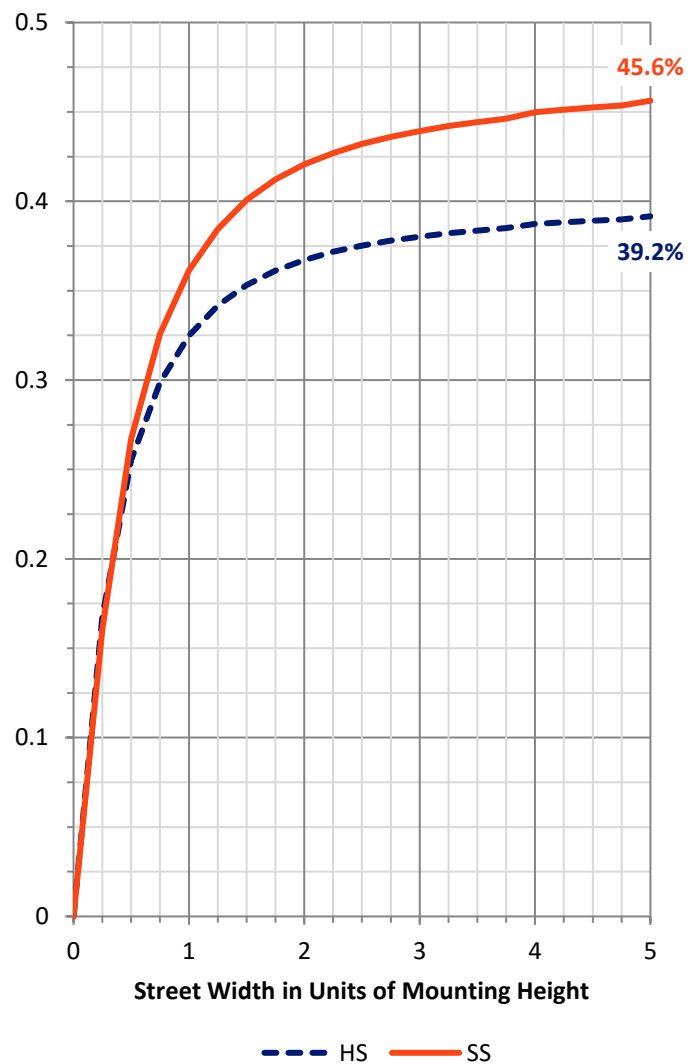
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2324.7	282.7	2607.4
	% Fixture	40.2	4.9	45.1
Street Side	Lumens	2698.3	471.3	3169.6
	% Fixture	46.7	8.2	54.9
Total	Lumens	5023.0	754.0	5777.0
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.9	6.8
10°-20°	836.2	14.5
20°-30°	908.4	15.7
30°-40°	672.3	11.6
40°-50°	563.1	9.7
50°-60°	566.1	9.8
60°-70°	482.0	8.3
70°-80°	360.0	6.2
80°-90°	243.0	4.2
90°-100°	145.2	2.5
100°-110°	83.9	1.5
110°-120°	77.3	1.3
120°-130°	111.7	1.9
130°-140°	152.9	2.6
140°-150°	126.0	2.2
150°-160°	50.7	0.9
160°-170°	6.2	0.1
170°-180°	0.0	0.0
0°-90°	5023.0	86.9
0°-180°	5777.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691590

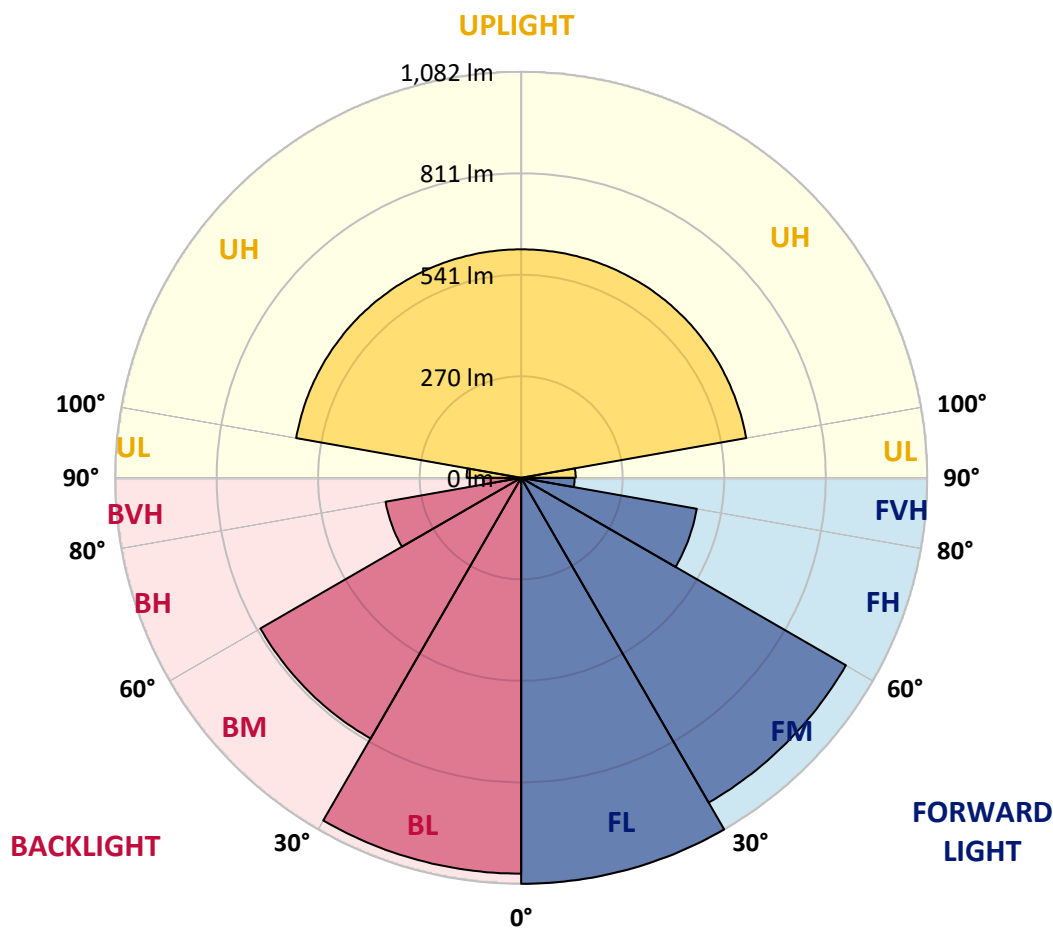
CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-8027-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1081.8	18.7			
FM	(30°-60°)	999.1	17.3			
FH	(60°-80°)	475.2	8.2			G0/660
FVH	(80°-90°)	142.3	2.5			G2/225
BL	(0°-30°)	1054.7	18.3	B3/2500		
BM	(30°-60°)	802.5	13.9	B1/1000		
BH	(60°-80°)	366.8	6.3	B1/500		G1/500
BVH	(80°-90°)	100.7	1.7			G2/225
UL	(90°-100°)	145.2	2.5		U3/500	
UH	(100°-180°)	608.7	10.5		U4/1000	

BUG Rating: B3-U4-G2

Type I Short



REPORT NUMBER: P691590

CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-8027-RMARROA5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0
2.5°	4132.7	4155.9	4206.9	4232.3	4257.8	4290.2	4338.9	4376.0	4461.7	4540.4	4572.9
5°	3410.0	3451.7	3549.0	3627.7	3715.7	3808.4	3908.0	3996.0	4109.6	4213.8	4274.0
7.5°	2930.4	2965.2	3081.0	3233.9	3389.1	3518.8	3620.8	3687.9	3738.9	3780.6	3824.6
10°	2638.5	2668.7	2784.5	2921.2	3053.2	3173.7	3259.4	3324.2	3342.8	3384.5	3405.3
12.5°	2555.2	2569.1	2650.1	2745.1	2826.2	2944.3	3046.3	3115.8	3145.9	3182.9	3194.5
15°	2557.5	2557.5	2603.8	2664.0	2738.2	2828.5	2942.0	3025.4	3069.4	3090.3	3088.0
17.5°	2592.2	2589.9	2610.7	2659.4	2721.9	2812.3	2928.1	3013.8	3064.8	3071.7	3064.8
20°	2592.2	2594.5	2601.5	2657.1	2717.3	2798.4	2916.5	2988.3	3027.7	3006.9	2983.7
22.5°	2328.1	2325.8	2386.0	2504.2	2666.3	2835.5	2942.0	3030.0	3039.3	2962.9	2900.3
25°	1922.7	1906.5	1941.3	1994.5	2103.4	2300.3	2522.7	2856.3	3055.5	3011.5	2916.5
27.5°	1667.9	1647.1	1677.2	1654.0	1642.4	1628.5	1614.6	1575.3	1600.7	1623.9	1725.8
30°	1257.9	1262.5	1269.5	1283.4	1311.2	1366.8	1424.7	1459.4	1489.5	1549.8	1542.8
32.5°	1230.1	1227.8	1230.1	1244.0	1257.9	1292.6	1327.4	1345.9	1369.1	1427.0	1413.1
35°	1137.4	1132.8	1149.0	1156.0	1153.6	1162.9	1197.7	1218.5	1239.4	1276.4	1262.5
37.5°	1000.7	1005.4	1040.1	1058.7	1065.6	1086.5	1114.3	1132.8	1158.3	1186.1	1179.1
40°	898.8	896.5	933.6	959.1	975.3	1007.7	1049.4	1077.2	1118.9	1142.1	1125.8
42.5°	773.7	783.0	810.8	836.3	840.9	857.1	894.2	926.6	977.6	1012.3	1003.1
45°	650.9	657.9	681.1	701.9	718.1	739.0	766.8	794.6	836.3	864.1	861.8
47.5°	574.5	581.5	600.0	625.5	648.6	678.7	706.5	734.3	773.7	794.6	787.6
50°	544.4	549.0	569.9	597.7	632.4	669.5	706.5	736.7	773.7	787.6	776.0
52.5°	542.1	542.1	567.6	609.3	657.9	708.9	757.5	799.2	834.0	834.0	810.8
55°	509.6	514.3	546.7	602.3	676.4	759.8	845.5	924.3	970.6	961.4	917.4
57.5°	463.3	465.6	500.4	553.7	632.4	734.3	850.2	949.8	1005.4	1017.0	970.6
60°	435.5	437.8	461.0	512.0	579.1	660.2	766.8	845.5	901.1	935.9	898.8
62.5°	412.3	412.3	435.5	470.3	525.9	586.1	646.3	699.6	743.6	769.1	748.2
65°	386.9	386.9	403.1	435.5	479.5	537.4	583.8	623.2	662.5	681.1	662.5
67.5°	361.4	361.4	377.6	407.7	447.1	495.7	542.1	579.1	618.5	632.4	618.5
70°	335.9	335.9	352.1	377.6	414.7	461.0	495.7	535.1	572.2	581.5	569.9
72.5°	310.4	310.4	326.6	349.8	382.2	426.2	458.7	488.8	523.5	530.5	518.9
75°	287.3	287.3	298.8	322.0	352.1	391.5	423.9	451.7	479.5	479.5	470.3
77.5°	261.8	264.1	273.4	294.2	322.0	359.1	389.2	414.7	437.8	437.8	426.2
80°	236.3	238.6	247.9	266.4	291.9	326.6	354.4	377.6	398.4	398.4	386.9
82.5°	210.8	213.1	222.4	238.6	261.8	294.2	322.0	345.2	363.7	361.4	349.8
85°	187.6	190.0	196.9	210.8	231.7	264.1	289.6	310.4	326.6	324.3	315.1
87.5°	164.5	166.8	173.7	185.3	203.9	234.0	259.5	278.0	291.9	289.6	280.3
90°	143.6	143.6	150.6	162.2	178.4	203.9	227.0	243.2	257.1	252.5	243.2
92.5°	125.1	127.4	132.0	141.3	155.2	178.4	199.2	213.1	227.0	224.7	215.4
95°	111.2	111.2	115.8	122.8	134.4	152.9	173.7	185.3	194.6	194.6	187.6
97.5°	97.3	99.6	101.9	106.6	115.8	129.7	145.9	157.5	164.5	164.5	159.8
100°	88.0	90.3	90.3	95.0	99.6	108.9	120.5	129.7	136.7	136.7	134.4
102.5°	83.4	83.4	83.4	85.7	88.0	92.7	99.6	104.2	108.9	111.2	108.9
105°	78.8	78.8	78.8	81.1	81.1	85.7	88.0	92.7	95.0	95.0	92.7
107.5°	76.4	76.4	78.8	78.8	78.8	81.1	85.7	85.7	88.0	85.7	85.7
110°	78.8	78.8	78.8	78.8	78.8	81.1	83.4	83.4	83.4	83.4	81.1

REPORT NUMBER: P691590

CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-8027-RMARROA5

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	81.1	81.1	81.1	81.1	83.4	83.4	83.4	85.7	85.7	83.4	83.4
115°	88.0	88.0	88.0	88.0	88.0	90.3	90.3	90.3	90.3	88.0	85.7
117.5°	95.0	95.0	95.0	97.3	97.3	99.6	97.3	99.6	97.3	95.0	95.0
120°	106.6	106.6	108.9	111.2	113.5	113.5	111.2	113.5	113.5	108.9	106.6
122.5°	120.5	120.5	122.8	129.7	132.0	134.4	132.0	132.0	132.0	127.4	125.1
125°	134.4	136.7	141.3	150.6	157.5	162.2	157.5	159.8	159.8	152.9	150.6
127.5°	150.6	152.9	162.2	176.1	187.6	192.3	190.0	192.3	194.6	183.0	178.4
130°	166.8	166.8	180.7	201.5	217.8	224.7	227.0	229.3	231.7	220.1	210.8
132.5°	180.7	180.7	199.2	224.7	245.6	257.1	261.8	266.4	271.0	254.8	243.2
135°	190.0	192.3	215.4	245.6	271.0	287.3	294.2	298.8	305.8	287.3	273.4
137.5°	196.9	201.5	224.7	257.1	284.9	308.1	322.0	328.9	333.6	315.1	296.5
140°	199.2	201.5	227.0	259.5	287.3	312.7	333.6	345.2	347.5	328.9	310.4
142.5°	192.3	196.9	220.1	252.5	280.3	308.1	331.3	342.8	345.2	328.9	310.4
145°	183.0	185.3	206.2	236.3	264.1	294.2	319.7	331.3	331.3	317.4	298.8
147.5°	166.8	169.1	187.6	213.1	240.9	271.0	296.5	308.1	310.4	296.5	280.3
150°	143.6	145.9	159.8	180.7	208.5	238.6	261.8	275.7	275.7	261.8	250.2
152.5°	115.8	118.1	129.7	145.9	169.1	196.9	217.8	231.7	231.7	222.4	208.5
155°	90.3	90.3	99.6	113.5	129.7	150.6	166.8	178.4	180.7	171.4	162.2
157.5°	64.9	64.9	71.8	83.4	97.3	113.5	125.1	134.4	134.4	127.4	122.8
160°	44.0	44.0	48.6	55.6	64.9	76.4	85.7	95.0	95.0	90.3	85.7
162.5°	23.2	23.2	27.8	32.4	39.4	48.6	53.3	60.2	60.2	57.9	55.6
165°	6.9	6.9	9.3	11.6	16.2	20.8	23.2	27.8	30.1	27.8	25.5
167.5°	0.0	0.0	2.3	2.3	2.3	2.3	4.6	6.9	6.9	6.9	6.9
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

REPORT NUMBER: P691590

CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-8027-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0	5013.0
2.5°	4607.6	4753.6	4885.6	5022.3	5191.4	5339.6	5499.5	5613.0	5661.6	5661.6	5680.2
5°	4318.0	4420.0	4526.5	4647.0	4848.5	5096.4	5381.3	5615.3	5749.7	5770.5	5768.2
7.5°	3838.5	3908.0	4016.9	4151.3	4336.6	4559.0	4925.0	5291.0	5534.2	5578.2	5562.0
10°	3416.9	3481.8	3546.6	3597.6	3729.6	3905.7	4174.4	4531.2	4811.5	4855.5	4820.7
12.5°	3201.5	3222.3	3220.0	3250.1	3303.4	3391.4	3528.1	3734.3	3926.5	3968.2	3938.1
15°	3088.0	3057.8	3011.5	2958.2	2953.6	2967.5	3002.2	3085.6	3166.7	3201.5	3178.3
17.5°	3041.6	2969.8	2874.8	2770.6	2701.1	2636.2	2592.2	2564.4	2576.0	2578.3	2559.8
20°	2932.7	2847.0	2694.1	2545.9	2434.7	2321.2	2223.9	2152.1	2140.5	2128.9	2115.0
22.5°	2810.0	2664.0	2481.0	2300.3	2135.9	1985.3	1876.4	1790.7	1758.3	1769.8	1762.9
25°	2784.5	2541.3	2318.9	2027.0	1818.5	1649.4	1445.5	1306.5	1244.0	1278.7	1255.6
27.5°	1670.2	1677.2	1552.1	1376.0	1225.5	1125.8	1035.5	961.4	919.7	919.7	924.3
30°	1512.7	1445.5	1362.1	1253.3	1121.2	1021.6	922.0	840.9	796.9	785.3	789.9
32.5°	1383.0	1336.6	1257.9	1153.6	1033.2	931.3	827.0	752.9	711.2	708.9	706.5
35°	1244.0	1195.3	1130.5	1040.1	935.9	840.9	750.6	685.7	648.6	650.9	650.9
37.5°	1149.0	1105.0	1047.1	961.4	866.4	771.4	690.3	630.1	600.0	600.0	597.7
40°	1100.4	1049.4	986.8	908.1	820.1	720.4	644.0	586.1	560.6	560.6	558.3
42.5°	993.8	949.8	908.1	827.0	739.0	657.9	586.1	535.1	509.6	509.6	509.6
45°	843.2	817.7	785.3	729.7	657.9	590.7	530.5	481.8	461.0	458.7	458.7
47.5°	778.4	750.6	711.2	660.2	602.3	539.8	481.8	447.1	426.2	426.2	426.2
50°	759.8	727.4	674.1	613.9	553.7	498.1	447.1	414.7	396.1	396.1	398.4
52.5°	785.3	732.0	660.2	586.1	523.5	461.0	417.0	384.5	370.6	370.6	368.3
55°	873.3	773.7	669.5	579.1	500.4	433.2	386.9	352.1	335.9	335.9	335.9
57.5°	922.0	803.8	676.4	569.9	479.5	412.3	363.7	326.6	310.4	310.4	310.4
60°	866.4	769.1	648.6	551.3	463.3	393.8	342.8	308.1	291.9	289.6	287.3
62.5°	725.1	664.8	579.1	498.1	428.6	368.3	326.6	291.9	275.7	275.7	273.4
65°	646.3	595.4	521.2	451.7	393.8	342.8	303.5	275.7	259.5	257.1	257.1
67.5°	602.3	556.0	481.8	417.0	363.7	317.4	280.3	254.8	243.2	238.6	238.6
70°	553.7	502.7	437.8	379.9	331.3	289.6	259.5	234.0	222.4	220.1	217.8
72.5°	505.0	458.7	398.4	342.8	298.8	264.1	236.3	213.1	201.5	199.2	199.2
75°	454.0	410.0	352.1	305.8	268.7	236.3	210.8	192.3	183.0	180.7	178.4
77.5°	412.3	373.0	317.4	273.4	238.6	213.1	190.0	173.7	164.5	164.5	162.2
80°	373.0	335.9	282.6	243.2	213.1	187.6	169.1	155.2	148.3	145.9	145.9
82.5°	335.9	298.8	250.2	215.4	187.6	166.8	148.3	136.7	129.7	129.7	129.7
85°	301.2	266.4	222.4	190.0	164.5	145.9	129.7	118.1	113.5	111.2	113.5
87.5°	266.4	234.0	196.9	166.8	143.6	125.1	111.2	101.9	97.3	97.3	97.3
90°	234.0	203.9	169.1	141.3	122.8	106.6	95.0	85.7	83.4	81.1	81.1
92.5°	206.2	180.7	150.6	127.4	108.9	97.3	85.7	78.8	74.1	74.1	74.1
95°	180.7	157.5	134.4	113.5	99.6	88.0	78.8	71.8	69.5	69.5	69.5
97.5°	155.2	136.7	118.1	101.9	90.3	81.1	71.8	67.2	64.9	62.5	64.9
100°	129.7	115.8	101.9	90.3	81.1	71.8	64.9	60.2	57.9	57.9	57.9
102.5°	104.2	97.3	85.7	76.4	69.5	64.9	57.9	53.3	51.0	51.0	51.0
105°	90.3	83.4	76.4	69.5	64.9	57.9	53.3	48.6	46.3	46.3	46.3
107.5°	83.4	78.8	71.8	67.2	60.2	55.6	51.0	44.0	41.7	41.7	41.7
110°	81.1	76.4	71.8	64.9	60.2	55.6	51.0	41.7	39.4	39.4	39.4

REPORT NUMBER: P691590

CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-8027-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	81.1	76.4	71.8	67.2	62.5	55.6	51.0	41.7	37.1	37.1	37.1
115°	85.7	81.1	76.4	71.8	64.9	57.9	53.3	41.7	37.1	37.1	37.1
117.5°	92.7	88.0	83.4	76.4	69.5	62.5	53.3	41.7	39.4	39.4	39.4
120°	104.2	99.6	92.7	85.7	76.4	67.2	57.9	44.0	37.1	39.4	39.4
122.5°	120.5	115.8	106.6	95.0	85.7	74.1	60.2	46.3	34.7	39.4	39.4
125°	143.6	136.7	122.8	108.9	95.0	81.1	64.9	48.6	37.1	41.7	41.7
127.5°	169.1	159.8	141.3	122.8	106.6	88.0	69.5	51.0	39.4	41.7	41.7
130°	199.2	183.0	159.8	136.7	115.8	95.0	74.1	53.3	41.7	41.7	41.7
132.5°	229.3	206.2	176.1	150.6	125.1	99.6	76.4	53.3	41.7	41.7	41.7
135°	254.8	227.0	192.3	159.8	129.7	101.9	78.8	53.3	41.7	41.7	41.7
137.5°	278.0	240.9	201.5	164.5	132.0	101.9	76.4	53.3	39.4	39.4	39.4
140°	289.6	247.9	206.2	164.5	129.7	99.6	71.8	48.6	37.1	37.1	37.1
142.5°	289.6	245.6	201.5	159.8	125.1	95.0	67.2	46.3	32.4	34.7	34.7
145°	280.3	236.3	192.3	150.6	115.8	85.7	60.2	39.4	30.1	30.1	30.1
147.5°	259.5	217.8	176.1	136.7	104.2	74.1	53.3	34.7	25.5	23.2	25.5
150°	231.7	192.3	152.9	118.1	88.0	62.5	44.0	27.8	20.8	20.8	20.8
152.5°	194.6	159.8	127.4	97.3	69.5	48.6	32.4	20.8	16.2	16.2	16.2
155°	152.9	125.1	99.6	74.1	53.3	37.1	25.5	16.2	11.6	11.6	11.6
157.5°	115.8	95.0	74.1	53.3	39.4	27.8	18.5	11.6	9.3	9.3	9.3
160°	81.1	64.9	51.0	37.1	25.5	18.5	11.6	6.9	4.6	4.6	4.6
162.5°	51.0	41.7	32.4	20.8	16.2	11.6	6.9	4.6	2.3	2.3	2.3
165°	23.2	20.8	13.9	9.3	6.9	4.6	2.3	2.3	0.0	0.0	0.0
167.5°	6.9	4.6	4.6	2.3	2.3	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)