

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: P691565

Luminaire Tested: **CRTK2-C018-5TLD-U-T2-7030-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-8)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C018-5TLD-U-T2-7030-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K LED WITH TYPE II OPTIC AND NEMA REFRACTOR WITH HOUSE
SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5754 lumens
Efficiency: N/A
Efficacy: 107.2 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



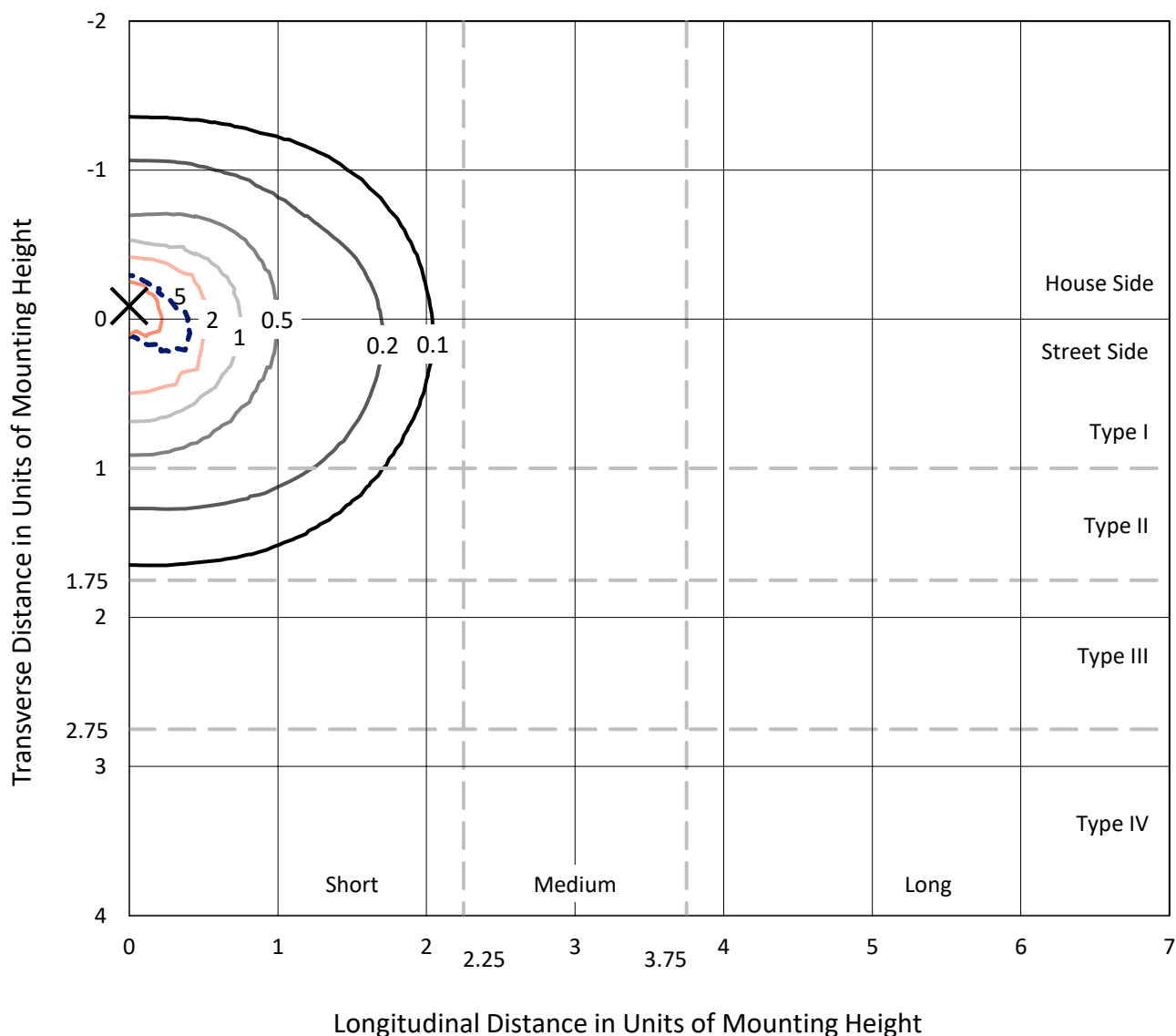
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



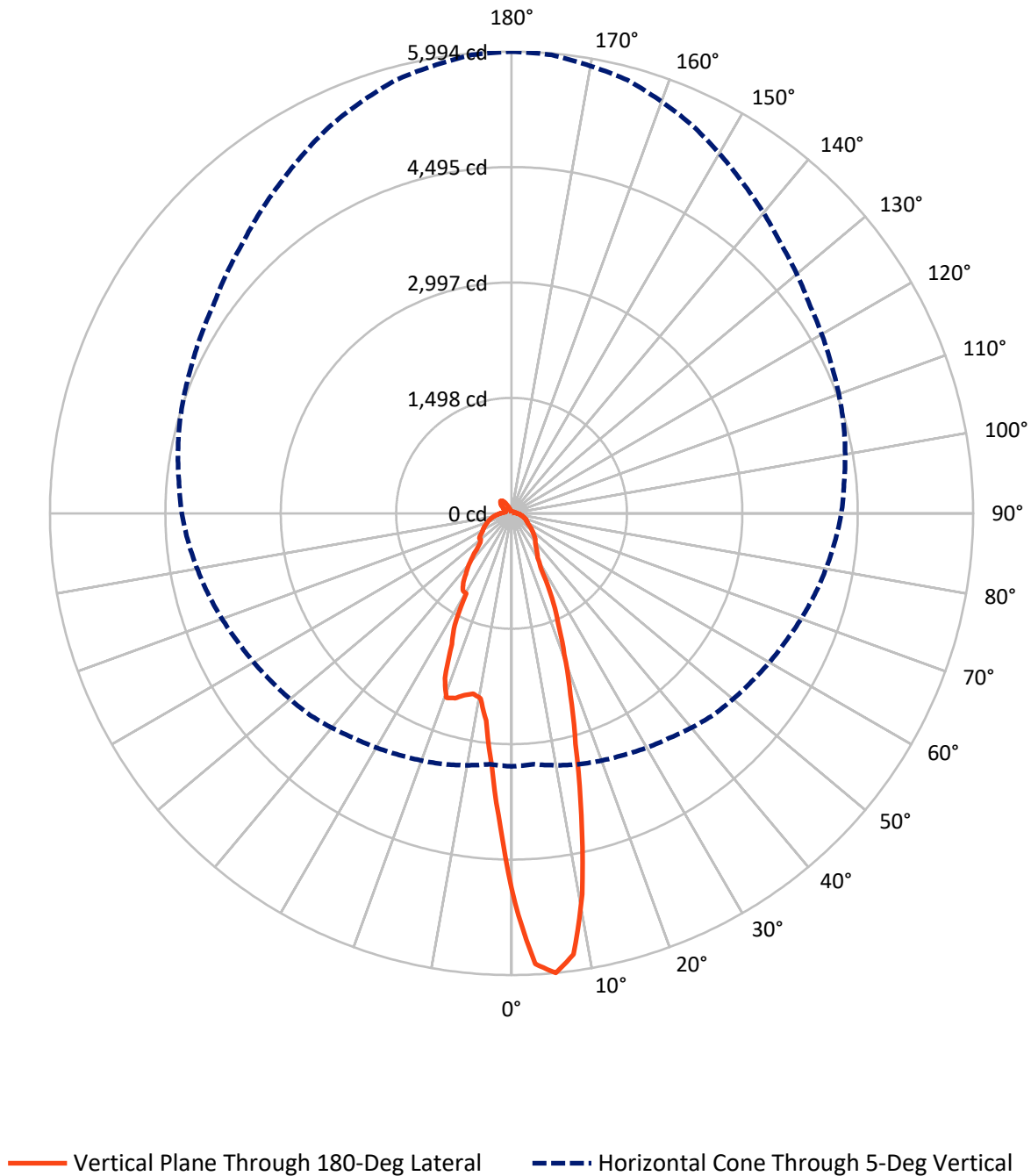
Based on 25 foot mounting height. Maximum calculated value = 9.1 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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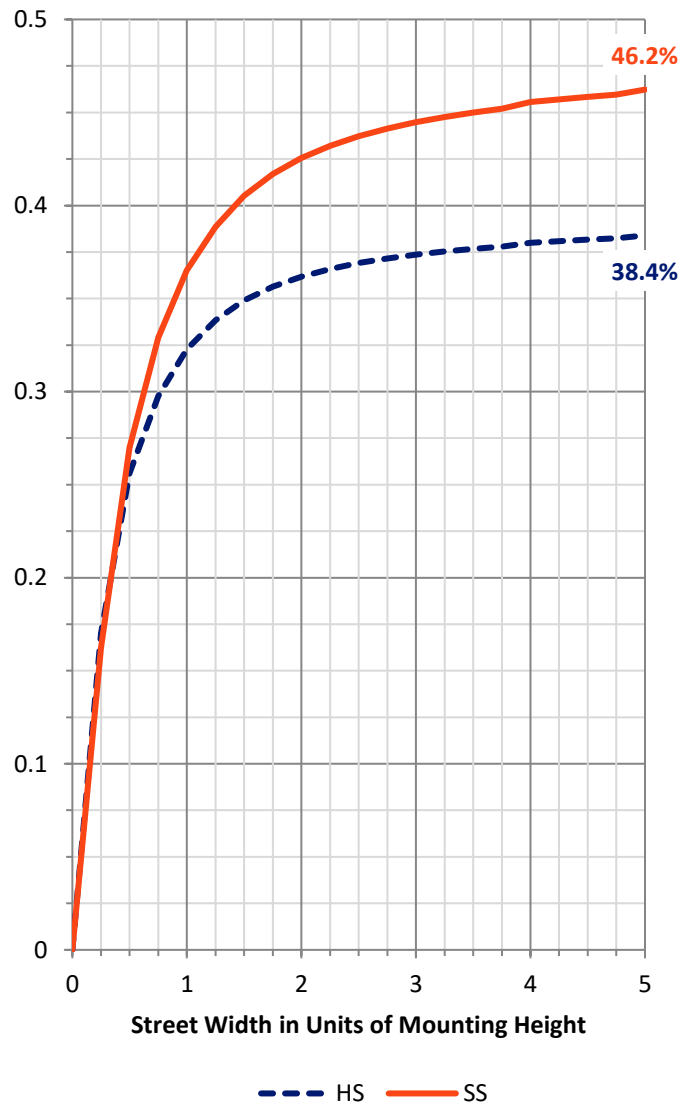
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2267.6	266.2	2533.8
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	2725.3	494.9	3220.2
	% Fixture	47.4	8.6	56.0
Total	Lumens	4992.9	761.1	5754.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.6	6.8
10°-20°	830.8	14.4
20°-30°	904.2	15.7
30°-40°	661.9	11.5
40°-50°	556.5	9.7
50°-60°	565.1	9.8
60°-70°	480.4	8.3
70°-80°	358.5	6.2
80°-90°	244.0	4.2
90°-100°	146.5	2.5
100°-110°	84.0	1.5
110°-120°	77.3	1.3
120°-130°	112.3	2.0
130°-140°	154.5	2.7
140°-150°	127.9	2.2
150°-160°	52.0	0.9
160°-170°	6.5	0.1
170°-180°	0.0	0.0
0°-90°	4992.9	86.8
0°-180°	5754.0	100.0

Coefficient of Utilization



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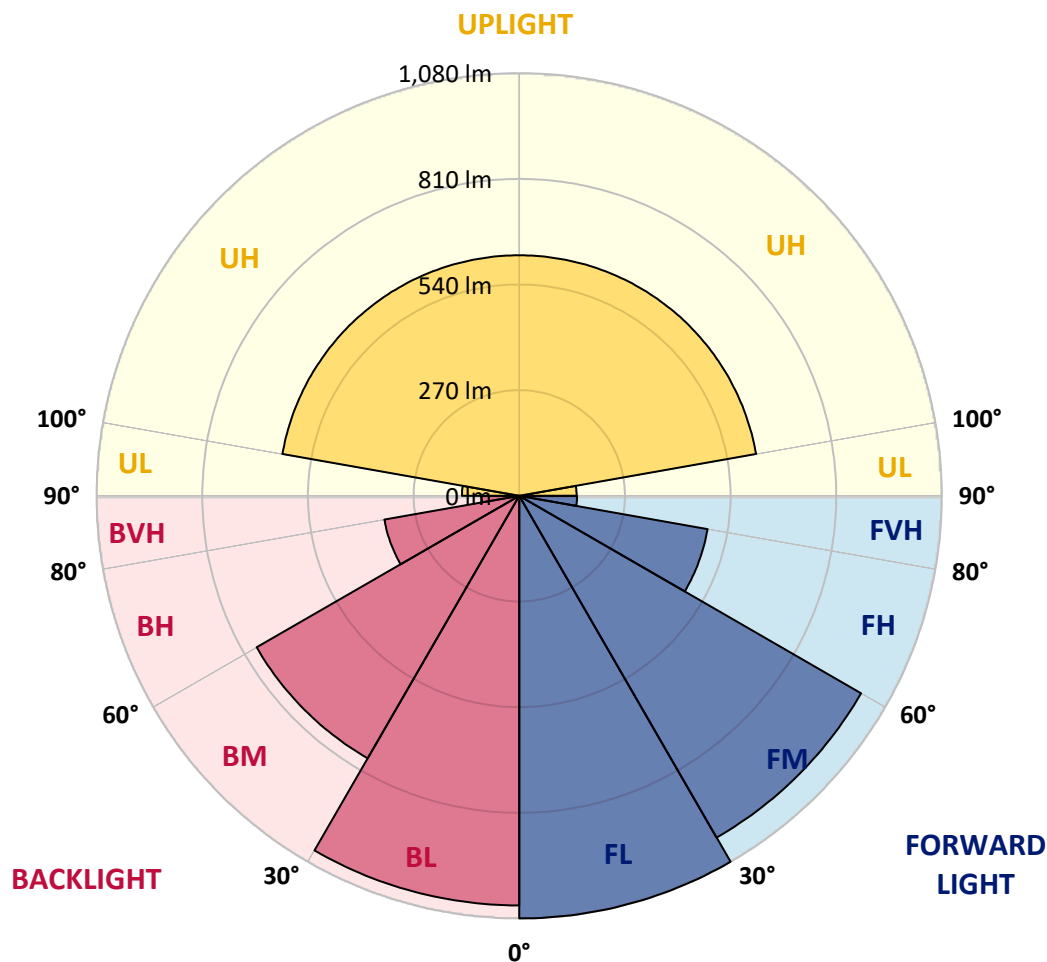
CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-7030-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1079.9	18.8			
FM	(30°-60°)	1008.8	17.5			
FH	(60°-80°)	488.8	8.5			G0/660
FVH	(80°-90°)	147.8	2.6			G2/225
BL	(0°-30°)	1046.6	18.2	B3/2500		
BM	(30°-60°)	774.7	13.5	B1/1000		
BH	(60°-80°)	350.0	6.1	B1/500		G1/500
BVH	(80°-90°)	96.2	1.7			G1/100
UL	(90°-100°)	146.5	2.5		U3/500	
UH	(100°-180°)	614.6	10.7		U4/1000	

BUG Rating: B3-U4-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5058.2	5058.2	5058.2	5058.2	5058.2	5058.2	5058.2	5058.2	5058.2	5058.2	5058.2
2.5°	4079.3	4071.7	4128.0	4140.8	4146.0	4204.9	4284.3	4338.1	4435.5	4530.3	4568.8
5°	3285.0	3269.6	3372.1	3459.2	3564.3	3702.7	3805.2	3928.2	4074.2	4215.2	4281.8
7.5°	2708.5	2729.0	2875.0	3054.4	3223.5	3387.5	3513.1	3618.1	3702.7	3792.4	3810.3
10°	2436.8	2454.8	2598.3	2770.0	2926.3	3092.8	3200.4	3290.1	3343.9	3410.6	3433.6
12.5°	2393.3	2406.1	2503.5	2623.9	2741.8	2893.0	3028.8	3128.7	3190.2	3244.0	3249.1
15°	2436.8	2442.0	2500.9	2580.3	2682.8	2808.4	2964.7	3077.4	3146.6	3169.7	3164.6
17.5°	2508.6	2508.6	2536.8	2603.4	2700.8	2821.2	2969.8	3085.1	3156.9	3167.1	3146.6
20°	2539.3	2544.5	2562.4	2636.7	2723.8	2834.0	2982.6	3080.0	3136.4	3108.2	3072.3
22.5°	2308.7	2298.5	2347.2	2503.5	2698.2	2895.5	3036.4	3146.6	3177.4	3082.6	3005.7
25°	1868.0	1873.1	1903.9	1980.7	2131.9	2313.9	2626.5	2962.1	3195.3	3159.4	3044.1
27.5°	1629.7	1614.3	1622.0	1634.8	1614.3	1575.9	1611.8	1604.1	1598.9	1691.2	1701.4
30°	1196.6	1199.2	1212.0	1235.1	1283.8	1355.5	1432.4	1475.9	1514.4	1586.1	1575.9
32.5°	1189.0	1191.5	1199.2	1219.7	1245.3	1294.0	1342.7	1360.6	1401.6	1460.6	1442.6
35°	1112.1	1104.4	1124.9	1142.8	1150.5	1171.0	1209.5	1235.1	1260.7	1301.7	1291.5
37.5°	986.5	989.1	1030.1	1058.3	1066.0	1094.1	1130.0	1150.5	1178.7	1214.6	1196.6
40°	878.9	881.5	930.2	960.9	978.8	1017.3	1071.1	1096.7	1142.8	1171.0	1150.5
42.5°	755.9	766.2	799.5	835.3	845.6	868.7	904.5	937.8	996.8	1035.2	1022.4
45°	630.4	635.5	658.5	694.4	709.8	735.4	768.7	799.5	845.6	876.3	873.8
47.5°	556.0	561.2	581.7	612.4	643.2	676.5	712.3	743.1	786.7	812.3	802.0
50°	525.3	530.4	556.0	591.9	630.4	673.9	717.5	750.8	791.8	807.2	794.3
52.5°	530.4	530.4	566.3	612.4	666.2	725.2	779.0	820.0	853.3	863.5	835.3
55°	502.2	509.9	548.4	612.4	694.4	786.7	878.9	966.0	1014.7	1004.5	950.7
57.5°	458.7	466.4	494.5	563.7	650.9	761.0	891.7	999.3	1058.3	1066.0	1012.1
60°	433.0	438.2	463.8	517.6	594.5	684.2	802.0	889.2	955.8	976.3	937.8
62.5°	410.0	415.1	435.6	476.6	533.0	602.2	668.8	725.2	779.0	799.5	784.1
65°	384.4	386.9	407.4	443.3	489.4	548.4	604.7	645.7	689.3	702.1	684.2
67.5°	358.7	361.3	379.2	412.5	456.1	509.9	553.5	599.6	643.2	653.4	640.6
70°	335.7	338.2	353.6	384.4	422.8	474.0	515.0	545.8	589.4	599.6	584.2
72.5°	312.6	315.2	330.6	358.7	394.6	440.7	476.6	507.4	543.2	545.8	533.0
75°	289.6	292.1	304.9	330.6	361.3	407.4	440.7	466.4	497.1	497.1	481.7
77.5°	263.9	269.1	279.3	302.4	330.6	374.1	404.9	430.5	456.1	453.5	438.2
80°	240.9	243.4	253.7	274.2	299.8	340.8	371.5	392.0	415.1	412.5	399.7
82.5°	215.2	217.8	225.5	246.0	269.1	307.5	338.2	358.7	379.2	374.1	361.3
85°	189.6	192.2	202.4	217.8	240.9	276.7	304.9	325.4	340.8	335.7	325.4
87.5°	169.1	169.1	176.8	192.2	212.7	246.0	271.6	292.1	304.9	302.4	292.1
90°	146.1	148.6	153.7	166.6	184.5	212.7	238.3	256.2	269.1	263.9	253.7
92.5°	128.1	128.1	133.2	146.1	161.4	187.1	210.1	225.5	235.7	233.2	225.5
95°	110.2	112.7	115.3	125.6	138.4	158.9	179.4	194.7	205.0	202.4	197.3
97.5°	97.4	99.9	102.5	107.6	120.4	133.2	151.2	164.0	174.2	171.7	166.6
100°	89.7	89.7	89.7	94.8	102.5	112.7	125.6	135.8	140.9	143.5	138.4
102.5°	82.0	82.0	84.6	84.6	89.7	94.8	102.5	110.2	112.7	112.7	112.7
105°	79.4	79.4	82.0	82.0	84.6	87.1	92.2	94.8	97.4	97.4	94.8
107.5°	79.4	79.4	79.4	79.4	82.0	84.6	87.1	89.7	89.7	89.7	87.1
110°	82.0	82.0	82.0	82.0	82.0	84.6	84.6	87.1	87.1	84.6	84.6



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CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	84.6	84.6	84.6	84.6	84.6	87.1	87.1	87.1	87.1	84.6	84.6
115°	89.7	89.7	89.7	92.2	92.2	92.2	92.2	92.2	92.2	89.7	87.1
117.5°	99.9	99.9	99.9	99.9	102.5	102.5	102.5	102.5	102.5	97.4	97.4
120°	112.7	110.2	112.7	115.3	117.9	117.9	117.9	117.9	117.9	112.7	110.2
122.5°	125.6	125.6	128.1	133.2	138.4	140.9	138.4	138.4	138.4	130.7	128.1
125°	140.9	140.9	148.6	158.9	166.6	169.1	166.6	166.6	166.6	158.9	153.7
127.5°	158.9	158.9	169.1	184.5	197.3	205.0	202.4	202.4	202.4	189.6	181.9
130°	176.8	176.8	192.2	212.7	233.2	238.3	240.9	243.4	243.4	228.1	217.8
132.5°	189.6	192.2	210.1	238.3	263.9	271.6	279.3	281.9	281.9	263.9	248.6
135°	202.4	205.0	228.1	261.4	289.6	307.5	315.2	317.7	320.3	299.8	281.9
137.5°	210.1	212.7	238.3	276.7	304.9	328.0	345.9	351.0	351.0	328.0	304.9
140°	210.1	212.7	240.9	276.7	307.5	335.7	356.2	366.4	366.4	343.4	322.9
142.5°	205.0	210.1	235.7	271.6	302.4	330.6	353.6	363.9	363.9	343.4	322.9
145°	194.7	197.3	222.9	253.7	284.4	317.7	343.4	353.6	353.6	333.1	312.6
147.5°	176.8	179.4	199.9	228.1	258.8	292.1	317.7	330.6	328.0	310.1	292.1
150°	153.7	153.7	171.7	194.7	225.5	256.2	281.9	294.7	294.7	276.7	261.4
152.5°	125.6	125.6	138.4	156.3	181.9	212.7	233.2	246.0	246.0	233.2	220.4
155°	97.4	97.4	107.6	120.4	140.9	164.0	179.4	192.2	192.2	181.9	171.7
157.5°	69.2	69.2	79.4	89.7	105.1	123.0	135.8	143.5	146.1	135.8	130.7
160°	46.1	46.1	51.2	58.9	71.7	84.6	92.2	99.9	102.5	94.8	92.2
162.5°	25.6	25.6	28.2	35.9	43.6	51.2	58.9	64.1	64.1	61.5	58.9
165°	7.7	7.7	10.2	12.8	17.9	23.1	25.6	28.2	30.7	30.7	28.2
167.5°	0.0	0.0	2.6	2.6	2.6	2.6	5.1	5.1	7.7	7.7	7.7
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°	5058.2	5058.2	5058.2	5058.2	5058.2	5058.2	5058.2	5058.2	5058.2	5058.2	5058.2
2.5°	4648.2	4791.7	4948.0	5099.2	5283.7	5475.9	5652.7	5773.1	5837.2	5857.7	5857.7
5°	4333.0	4463.7	4579.0	4722.5	4945.4	5235.0	5555.3	5821.8	5973.0	5990.9	5993.5
7.5°	3841.0	3948.7	4069.1	4197.2	4394.5	4653.3	5076.1	5506.6	5752.6	5798.7	5780.8
10°	3438.7	3505.4	3577.1	3625.8	3764.2	3956.4	4243.3	4666.1	4968.5	5004.4	5030.0
12.5°	3251.7	3261.9	3241.4	3251.7	3297.8	3387.5	3528.4	3771.9	3969.2	4002.5	4020.4
15°	3156.9	3105.6	3023.6	2946.8	2905.8	2913.5	2944.2	3044.1	3077.4	3133.8	3108.2
17.5°	3113.3	2998.0	2869.9	2721.3	2629.0	2534.2	2483.0	2465.0	2452.2	2454.8	2477.8
20°	3003.1	2872.5	2667.5	2472.7	2324.1	2193.4	2083.2	2003.8	1960.2	1939.7	1955.1
22.5°	2887.8	2685.4	2444.5	2234.4	2021.7	1855.2	1729.6	1614.3	1550.3	1568.2	1547.7
25°	2890.4	2588.0	2301.0	2024.3	1824.4	1604.1	1404.2	1283.8	1178.7	1199.2	1227.4
27.5°	1821.9	1742.4	1537.4	1376.0	1176.1	1066.0	966.0	881.5	822.5	825.1	817.4
30°	1545.1	1463.1	1360.6	1232.5	1081.3	953.2	837.9	740.5	684.2	668.8	666.2
32.5°	1427.3	1358.1	1263.3	1137.7	999.3	871.2	755.9	666.2	609.9	607.3	607.3
35°	1271.0	1206.9	1127.5	1019.8	902.0	784.1	676.5	599.6	553.5	553.5	550.9
37.5°	1173.6	1117.2	1040.3	940.4	835.3	717.5	622.7	553.5	504.8	502.2	504.8
40°	1122.3	1063.4	989.1	894.3	789.2	676.5	586.8	515.0	479.2	476.6	474.0
42.5°	1019.8	973.7	909.7	822.5	730.3	630.4	545.8	481.7	451.0	448.4	451.0
45°	866.1	832.8	789.2	725.2	648.3	563.7	489.4	440.7	410.0	410.0	410.0
47.5°	794.3	763.6	714.9	650.9	584.2	504.8	443.3	402.3	374.1	374.1	374.1
50°	776.4	738.0	673.9	602.2	530.4	461.2	404.9	363.9	343.4	340.8	343.4
52.5°	802.0	743.1	656.0	571.4	492.0	425.4	371.5	333.1	312.6	312.6	312.6
55°	894.3	786.7	671.3	563.7	468.9	394.6	340.8	302.4	281.9	279.3	281.9
57.5°	955.8	820.0	676.5	556.0	453.5	374.1	315.2	274.2	253.7	251.1	253.7
60°	902.0	791.8	653.4	535.5	440.7	358.7	297.2	256.2	235.7	233.2	233.2
62.5°	748.2	684.2	584.2	484.3	407.4	335.7	279.3	240.9	220.4	217.8	220.4
65°	663.7	607.3	520.2	440.7	374.1	312.6	263.9	230.6	210.1	210.1	210.1
67.5°	617.5	566.3	484.3	407.4	345.9	289.6	243.4	212.7	194.7	194.7	194.7
70°	563.7	512.5	438.2	369.0	312.6	263.9	222.9	192.2	176.8	174.2	176.8
72.5°	517.6	466.4	397.2	333.1	281.9	238.3	202.4	174.2	161.4	158.9	161.4
75°	466.4	417.7	351.0	294.7	251.1	212.7	181.9	156.3	146.1	143.5	143.5
77.5°	422.8	376.7	315.2	263.9	225.5	189.6	161.4	143.5	133.2	130.7	130.7
80°	384.4	340.8	281.9	235.7	199.9	169.1	146.1	128.1	117.9	117.9	117.9
82.5°	343.4	304.9	251.1	207.6	176.8	151.2	128.1	112.7	105.1	105.1	105.1
85°	310.1	271.6	220.4	184.5	153.7	130.7	112.7	99.9	92.2	92.2	92.2
87.5°	274.2	240.9	194.7	161.4	135.8	115.3	97.4	84.6	82.0	79.4	79.4
90°	238.3	207.6	166.6	138.4	115.3	97.4	82.0	71.7	69.2	66.6	66.6
92.5°	212.7	184.5	151.2	125.6	105.1	87.1	76.9	66.6	64.1	64.1	61.5
95°	184.5	161.4	133.2	112.7	94.8	82.0	71.7	64.1	61.5	61.5	58.9
97.5°	158.9	138.4	117.9	102.5	87.1	76.9	66.6	61.5	56.4	56.4	56.4
100°	133.2	117.9	102.5	87.1	79.4	69.2	61.5	56.4	53.8	51.2	51.2
102.5°	107.6	97.4	84.6	76.9	66.6	58.9	53.8	48.7	46.1	46.1	46.1
105°	92.2	84.6	76.9	69.2	61.5	53.8	48.7	43.6	41.0	41.0	41.0
107.5°	84.6	79.4	71.7	64.1	58.9	51.2	46.1	38.4	35.9	38.4	38.4
110°	82.0	76.9	69.2	64.1	56.4	51.2	46.1	35.9	33.3	35.9	35.9



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CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	82.0	76.9	71.7	64.1	58.9	51.2	46.1	35.9	33.3	33.3	33.3
115°	84.6	82.0	74.3	69.2	61.5	53.8	46.1	35.9	33.3	33.3	33.3
117.5°	94.8	89.7	82.0	74.3	66.6	56.4	48.7	35.9	33.3	33.3	33.3
120°	105.1	99.9	92.2	82.0	71.7	61.5	51.2	35.9	30.7	33.3	33.3
122.5°	123.0	115.3	105.1	92.2	79.4	66.6	51.2	38.4	28.2	33.3	33.3
125°	146.1	135.8	120.4	102.5	87.1	71.7	53.8	38.4	30.7	33.3	33.3
127.5°	171.7	158.9	138.4	115.3	94.8	74.3	56.4	38.4	30.7	30.7	33.3
130°	205.0	184.5	156.3	128.1	102.5	79.4	56.4	38.4	30.7	30.7	30.7
132.5°	233.2	207.6	171.7	138.4	107.6	82.0	56.4	38.4	28.2	28.2	28.2
135°	261.4	228.1	184.5	146.1	112.7	82.0	56.4	35.9	28.2	28.2	28.2
137.5°	284.4	240.9	194.7	148.6	112.7	79.4	53.8	33.3	25.6	25.6	25.6
140°	297.2	248.6	197.3	148.6	107.6	76.9	48.7	30.7	23.1	23.1	23.1
142.5°	297.2	246.0	194.7	143.5	102.5	71.7	43.6	25.6	20.5	20.5	20.5
145°	287.0	235.7	184.5	135.8	94.8	64.1	38.4	23.1	15.4	15.4	17.9
147.5°	269.1	217.8	169.1	123.0	84.6	53.8	33.3	17.9	12.8	12.8	12.8
150°	238.3	192.2	146.1	107.6	71.7	46.1	28.2	15.4	10.2	10.2	10.2
152.5°	199.9	158.9	123.0	89.7	58.9	35.9	20.5	12.8	7.7	7.7	7.7
155°	158.9	125.6	97.4	69.2	43.6	28.2	15.4	10.2	7.7	7.7	7.7
157.5°	117.9	94.8	71.7	51.2	33.3	20.5	12.8	7.7	5.1	5.1	5.1
160°	82.0	66.6	48.7	33.3	20.5	12.8	7.7	5.1	2.6	2.6	2.6
162.5°	53.8	41.0	30.7	20.5	12.8	7.7	5.1	2.6	2.6	2.6	2.6
165°	25.6	20.5	15.4	10.2	5.1	5.1	2.6	2.6	0.0	0.0	0.0
167.5°	7.7	5.1	2.6	2.6	2.6	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)