

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: P690869

Luminaire Tested: **CRTK2-C01-5TLD-U-T3-7040-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P690869
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-C01-5TLD-U-T3-7040-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K 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: 6600 lumens
Efficiency: N/A
Efficacy: 110.0 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): 60
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



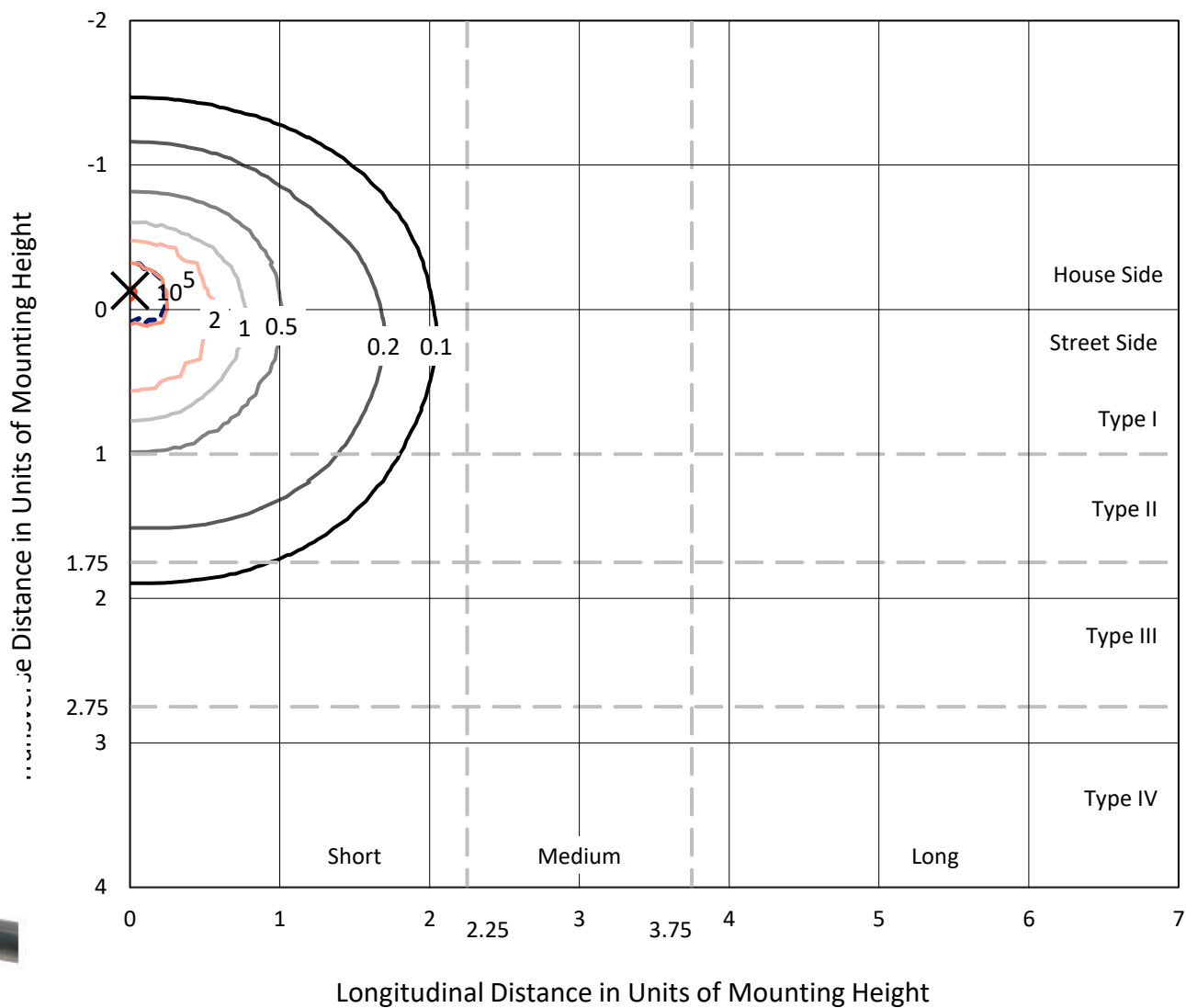
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

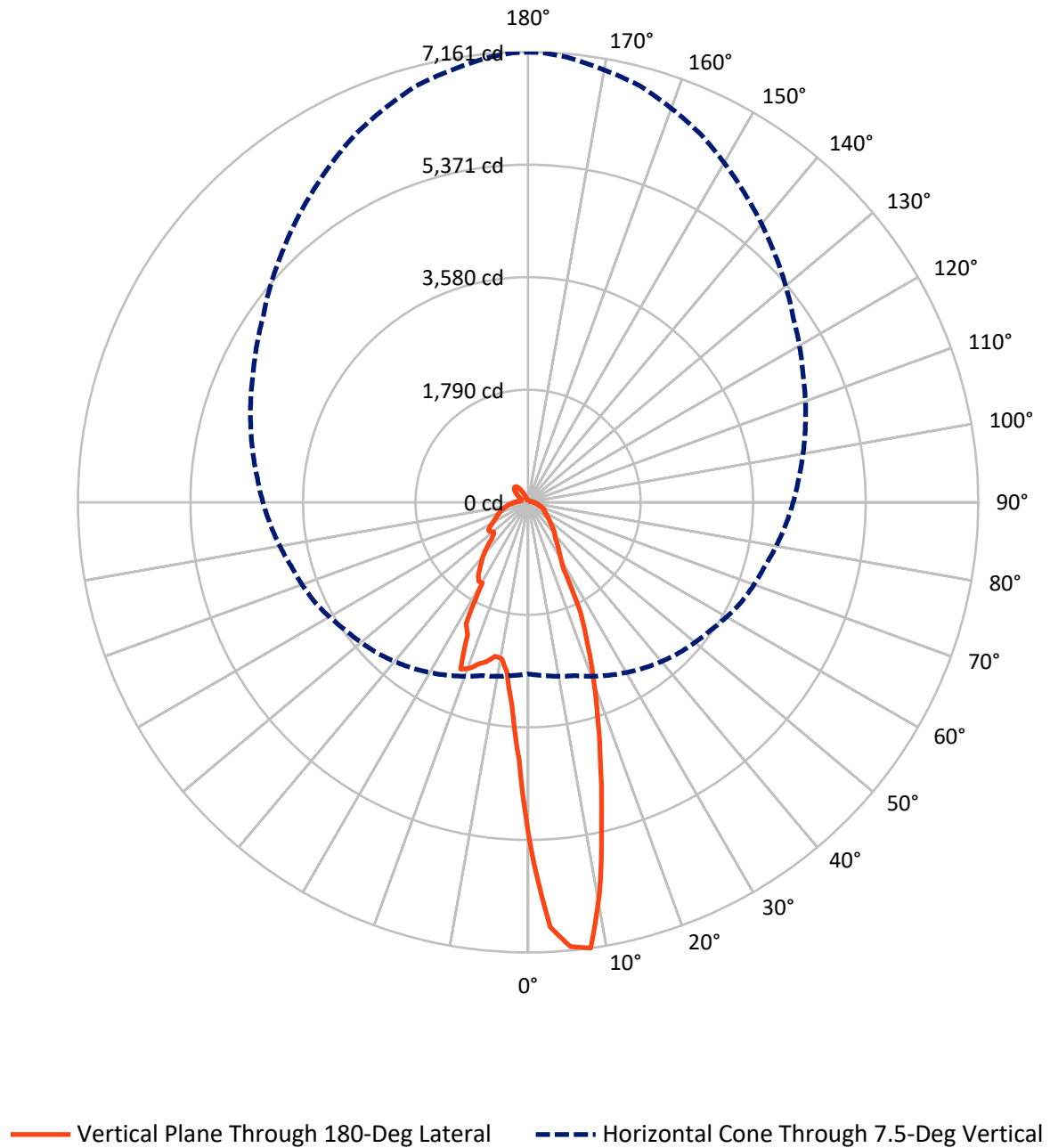


Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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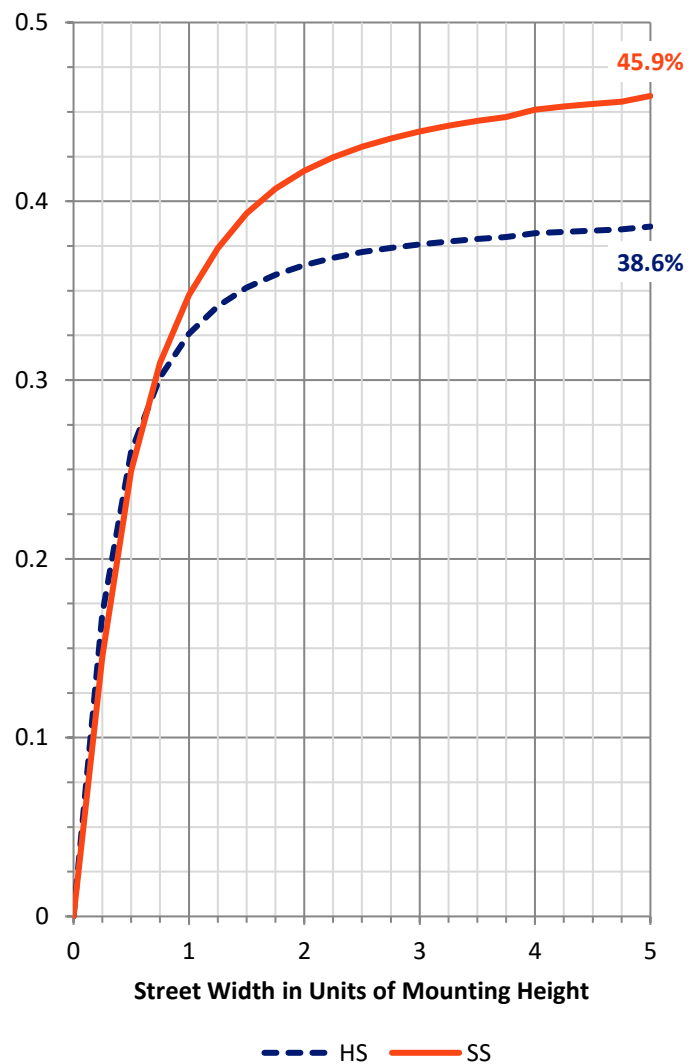
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2613.1	272.5	2885.6
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	3116.0	598.4	3714.4
	% Fixture	47.2	9.1	56.3
Total	Lumens	5729.1	870.9	6600.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.2	6.7
10°-20°	946.0	14.3
20°-30°	1044.6	15.8
30°-40°	757.6	11.5
40°-50°	638.3	9.7
50°-60°	651.6	9.9
60°-70°	555.4	8.4
70°-80°	414.0	6.3
80°-90°	279.4	4.2
90°-100°	167.0	2.5
100°-110°	96.1	1.5
110°-120°	89.8	1.4
120°-130°	130.8	2.0
130°-140°	177.8	2.7
140°-150°	144.7	2.2
150°-160°	57.7	0.9
160°-170°	7.0	0.1
170°-180°	0.0	0.0
0°-90°	5729.1	86.8
0°-180°	6600.0	100.0

Coefficient of Utilization



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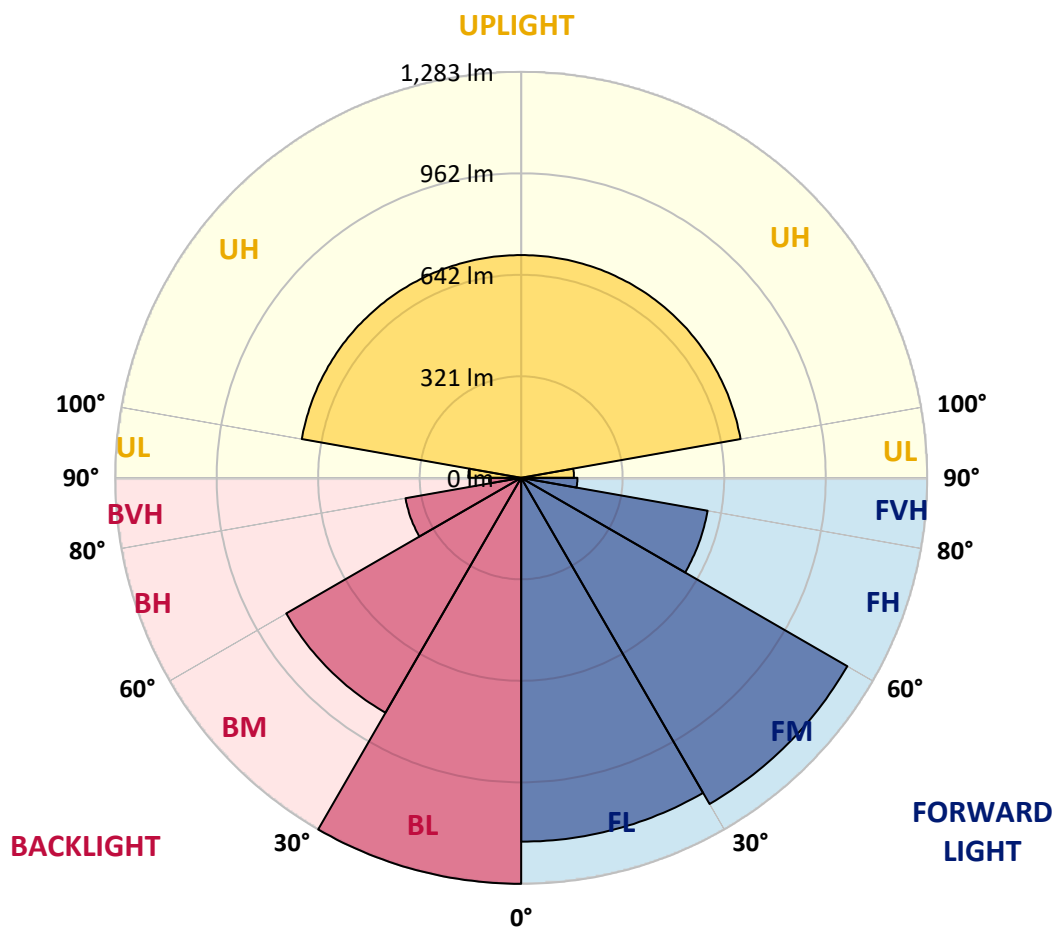
CATALOG NUMBER: CRTK2-C01-5TLD-U-T3-7040-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1149.7	17.4			
FM	(30°-60°)	1190.3	18.0			
FH	(60°-80°)	598.3	9.1			G0/660
FVH	(80°-90°)	177.8	2.7			G2/225
BL	(0°-30°)	1283.0	19.4	B3/2500		
BM	(30°-60°)	857.3	13.0	B1/1000		
BH	(60°-80°)	371.1	5.6	B1/500		G1/500
BVH	(80°-90°)	101.7	1.5			G2/225
UL	(90°-100°)	167.0	2.5		U3/500	
UH	(100°-180°)	703.9	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°	5518.9	5518.9	5518.9	5518.9	5518.9	5518.9	5518.9	5518.9	5518.9	5518.9	5518.9
2.5°	4095.9	4191.0	4199.6	4303.3	4381.1	4453.1	4505.0	4654.7	4807.4	4951.4	5035.0
5°	3252.0	3298.1	3381.6	3493.9	3638.0	3750.3	3911.6	4121.9	4323.5	4577.0	4700.8
7.5°	2730.6	2765.2	2854.5	3036.0	3217.4	3390.2	3545.8	3747.4	3903.0	4113.2	4216.9
10°	2523.2	2543.4	2618.3	2745.0	2917.9	3061.9	3197.3	3349.9	3488.2	3681.2	3756.1
12.5°	2503.1	2511.7	2572.2	2661.5	2762.3	2880.4	2992.7	3122.4	3269.3	3421.9	3479.5
15°	2612.5	2606.8	2626.9	2678.8	2736.4	2828.6	2932.3	3050.4	3191.5	3303.8	3349.9
17.5°	2690.3	2687.4	2724.9	2747.9	2802.6	2857.4	2961.1	3053.2	3191.5	3280.8	3306.7
20°	2802.6	2808.4	2819.9	2863.1	2886.2	2923.6	2987.0	3041.7	3159.8	3211.7	3205.9
22.5°	2863.1	2860.2	2909.2	3010.0	3036.0	3056.1	3067.6	3090.7	3156.9	3154.1	3110.8
25°	2321.6	2327.4	2338.9	2425.3	2534.8	2713.3	2860.2	3090.7	3214.5	3168.5	3076.3
27.5°	2169.0	2151.7	2091.2	2042.2	1895.3	1797.4	1705.2	1664.9	1685.0	1719.6	1814.7
30°	1477.7	1480.5	1486.3	1494.9	1509.3	1546.8	1572.7	1575.6	1595.7	1653.4	1633.2
32.5°	1480.5	1483.4	1474.8	1483.4	1477.7	1492.1	1489.2	1477.7	1494.9	1546.8	1526.6
35°	1391.2	1385.5	1391.2	1394.1	1362.4	1350.9	1348.0	1339.4	1350.9	1376.8	1359.6
37.5°	1253.0	1250.1	1276.0	1290.4	1264.5	1264.5	1258.7	1247.2	1255.9	1278.9	1255.9
40°	1132.0	1134.9	1172.3	1195.4	1186.7	1195.4	1204.0	1201.1	1221.3	1229.9	1201.1
42.5°	999.5	993.7	1031.2	1048.5	1031.2	1036.9	1034.1	1036.9	1077.3	1094.6	1074.4
45°	835.3	844.0	861.2	884.3	881.4	890.0	887.2	892.9	918.9	927.5	913.1
47.5°	743.1	748.9	769.1	795.0	809.4	823.8	823.8	826.7	844.0	846.8	832.4
50°	723.0	728.7	754.7	783.5	806.5	823.8	832.4	829.6	838.2	832.4	812.3
52.5°	757.5	757.5	797.9	832.4	861.2	892.9	904.4	892.9	892.9	869.9	838.2
55°	772.0	774.8	823.8	884.3	939.0	996.6	1034.1	1031.2	1028.3	990.9	933.3
57.5°	725.9	734.5	783.5	852.6	927.5	1019.7	1074.4	1083.0	1083.0	1034.1	970.7
60°	659.6	665.4	702.8	760.4	835.3	904.4	962.1	967.8	985.1	959.2	901.6
62.5°	604.9	610.6	642.3	685.5	740.3	783.5	800.8	800.8	809.4	800.8	760.4
65°	564.6	567.4	593.4	630.8	668.3	702.8	720.1	714.3	725.9	714.3	682.7
67.5°	527.1	527.1	550.2	579.0	613.5	653.9	665.4	671.1	682.7	668.3	639.5
70°	489.7	492.6	515.6	538.6	570.3	599.1	610.6	613.5	627.9	610.6	590.5
72.5°	458.0	458.0	478.1	501.2	524.2	553.0	561.7	567.4	576.1	558.8	541.5
75°	420.5	423.4	440.7	460.9	481.0	509.8	518.5	521.4	530.0	509.8	492.6
77.5°	386.0	388.9	403.3	420.5	440.7	463.7	472.4	478.1	481.0	463.7	446.5
80°	351.4	354.3	365.8	383.1	400.4	423.4	429.2	432.1	437.8	417.7	406.1
82.5°	319.7	319.7	328.4	342.8	360.1	380.2	388.9	391.7	394.6	377.3	365.8
85°	282.3	282.3	290.9	305.3	319.7	339.9	348.5	351.4	351.4	337.0	325.5
87.5°	250.6	250.6	256.4	267.9	279.4	299.6	308.2	314.0	311.1	299.6	288.0
90°	218.9	218.9	224.7	233.3	244.8	262.1	270.8	273.6	273.6	259.2	250.6
92.5°	190.1	190.1	195.9	204.5	213.2	227.6	236.2	242.0	242.0	230.4	221.8
95°	164.2	164.2	167.1	175.7	184.3	195.9	201.6	207.4	207.4	201.6	193.0
97.5°	141.1	141.1	144.0	149.8	155.5	164.2	169.9	175.7	175.7	172.8	167.1
100°	123.9	123.9	123.9	126.7	132.5	135.4	141.1	146.9	146.9	144.0	141.1
102.5°	112.3	112.3	112.3	112.3	112.3	115.2	115.2	118.1	118.1	118.1	115.2
105°	106.6	106.6	106.6	106.6	106.6	106.6	106.6	106.6	103.7	100.8	97.9
107.5°	106.6	103.7	103.7	103.7	103.7	100.8	100.8	100.8	97.9	95.1	92.2
110°	106.6	106.6	106.6	106.6	103.7	100.8	100.8	97.9	95.1	92.2	89.3

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CATALOG NUMBER: CRTK2-C01-5TLD-U-T3-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	112.3	112.3	112.3	109.5	106.6	106.6	103.7	100.8	97.9	92.2	89.3
115°	121.0	121.0	121.0	121.0	118.1	112.3	109.5	106.6	100.8	97.9	95.1
117.5°	135.4	135.4	135.4	135.4	129.6	126.7	121.0	118.1	112.3	106.6	103.7
120°	152.7	152.7	155.5	155.5	152.7	146.9	138.3	135.4	129.6	121.0	115.2
122.5°	178.6	175.7	181.5	181.5	181.5	175.7	164.2	158.4	152.7	141.1	135.4
125°	204.5	204.5	210.3	216.0	218.9	210.3	198.7	190.1	181.5	167.1	158.4
127.5°	233.3	233.3	244.8	256.4	262.1	253.5	239.1	230.4	218.9	198.7	187.2
130°	262.1	262.1	279.4	296.7	305.3	299.6	285.2	273.6	259.2	233.3	218.9
132.5°	288.0	288.0	308.2	331.2	342.8	339.9	325.5	314.0	302.4	270.8	250.6
135°	308.2	311.1	337.0	362.9	377.3	380.2	365.8	351.4	337.0	302.4	279.4
137.5°	319.7	325.5	351.4	383.1	397.5	406.1	397.5	383.1	365.8	328.4	302.4
140°	322.6	325.5	354.3	386.0	400.4	411.9	411.9	394.6	380.2	342.8	314.0
142.5°	314.0	316.8	345.6	374.5	388.9	403.3	406.1	391.7	377.3	342.8	314.0
145°	293.8	299.6	325.5	348.5	368.7	383.1	388.9	380.2	362.9	331.2	305.3
147.5°	267.9	270.8	293.8	314.0	334.1	351.4	360.1	351.4	337.0	308.2	285.2
150°	227.6	230.4	247.7	265.0	288.0	305.3	316.8	311.1	299.6	276.5	253.5
152.5°	184.3	184.3	198.7	213.2	233.3	250.6	262.1	259.2	250.6	230.4	213.2
155°	141.1	141.1	149.8	161.3	178.6	190.1	201.6	201.6	195.9	181.5	167.1
157.5°	100.8	100.8	109.5	118.1	129.6	141.1	149.8	149.8	146.9	135.4	126.7
160°	66.2	66.2	72.0	77.8	89.3	95.1	103.7	103.7	100.8	95.1	89.3
162.5°	34.6	34.6	40.3	43.2	51.8	57.6	63.4	66.2	66.2	60.5	57.6
165°	11.5	11.5	11.5	14.4	20.2	25.9	28.8	31.7	31.7	28.8	28.8
167.5°	2.9	2.9	2.9	2.9	2.9	2.9	5.8	8.6	8.6	8.6	8.6
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°	5518.9	5518.9	5518.9	5518.9	5518.9	5518.9	5518.9	5518.9	5518.9	5518.9	5518.9
2.5°	5124.3	5386.4	5611.0	5847.2	6109.4	6331.1	6555.8	6679.7	6786.2	6766.1	6766.1
5°	4821.8	5083.9	5357.6	5645.6	5999.9	6362.8	6708.5	6956.2	7085.8	7106.0	7103.1
7.5°	4320.6	4565.5	4824.7	5144.4	5559.2	6002.8	6472.3	6861.1	7106.0	7152.1	7160.7
10°	3825.2	4009.5	4228.4	4447.4	4818.9	5225.1	5645.6	5956.7	6195.8	6230.3	6270.7
12.5°	3528.5	3629.3	3770.5	3923.1	4165.1	4461.8	4807.4	4986.0	5138.7	5155.9	5193.4
15°	3375.8	3424.8	3459.4	3514.1	3658.1	3842.5	4000.9	4176.6	4240.0	4283.2	4303.3
17.5°	3315.4	3309.6	3275.0	3275.0	3286.5	3355.7	3456.5	3517.0	3557.3	3577.5	3583.2
20°	3191.5	3139.6	3070.5	2978.3	2929.4	2906.3	2932.3	2946.7	2935.1	2920.7	2946.7
22.5°	3061.9	2952.4	2828.6	2722.0	2595.3	2517.5	2442.6	2416.7	2385.0	2405.1	2405.1
25°	3021.6	2828.6	2629.8	2451.2	2261.1	2131.5	1993.2	1944.3	1895.3	1935.6	1935.6
27.5°	1785.9	1785.9	1673.5	1523.7	1359.6	1290.4	1235.7	1204.0	1183.8	1192.5	1192.5
30°	1598.6	1523.7	1454.6	1359.6	1232.8	1149.3	1077.3	1034.1	1013.9	1008.1	1013.9
32.5°	1483.4	1425.8	1342.3	1247.2	1134.9	1042.7	962.1	918.9	887.2	892.9	895.8
35°	1327.9	1267.4	1195.4	1106.1	1011.0	924.6	852.6	809.4	780.6	780.6	783.5
37.5°	1229.9	1169.4	1100.3	1019.7	927.5	844.0	777.7	725.9	699.9	697.1	697.1
40°	1169.4	1109.0	1045.6	964.9	878.5	792.1	725.9	679.8	648.1	648.1	651.0
42.5°	1060.0	1002.4	947.7	875.6	797.9	723.0	659.6	619.3	587.6	581.8	587.6
45°	892.9	861.2	818.0	769.1	702.8	642.3	584.7	550.2	524.2	524.2	521.4
47.5°	818.0	786.4	740.3	691.3	636.6	576.1	530.0	498.3	475.3	475.3	475.3
50°	789.2	754.7	697.1	642.3	579.0	527.1	486.8	455.1	437.8	437.8	434.9
52.5°	803.6	748.9	674.0	596.2	535.8	483.9	443.6	411.9	397.5	397.5	394.6
55°	881.4	783.5	674.0	579.0	507.0	449.3	409.0	374.5	360.1	360.1	360.1
57.5°	913.1	803.6	668.3	561.7	481.0	420.5	371.6	339.9	325.5	325.5	322.6
60°	855.5	763.3	639.5	538.6	460.9	400.4	354.3	322.6	305.3	305.3	302.4
62.5°	728.7	662.5	567.4	492.6	432.1	377.3	337.0	305.3	290.9	290.9	290.9
65°	653.9	596.2	521.4	455.1	400.4	354.3	316.8	290.9	276.5	276.5	276.5
67.5°	610.6	561.7	486.8	423.4	368.7	325.5	290.9	267.9	256.4	253.5	256.4
70°	564.6	512.7	443.6	383.1	334.1	293.8	262.1	239.1	227.6	227.6	227.6
72.5°	515.6	466.6	400.4	345.6	296.7	265.0	233.3	213.2	201.6	201.6	198.7
75°	469.5	420.5	357.2	305.3	265.0	233.3	207.4	190.1	178.6	178.6	178.6
77.5°	426.3	380.2	319.7	273.6	236.2	210.3	184.3	169.9	161.3	161.3	158.4
80°	386.0	342.8	285.2	244.8	210.3	187.2	164.2	152.7	144.0	144.0	144.0
82.5°	345.6	305.3	253.5	216.0	187.2	164.2	146.9	135.4	129.6	126.7	129.6
85°	308.2	270.8	224.7	190.1	164.2	144.0	129.6	118.1	112.3	112.3	112.3
87.5°	273.6	239.1	198.7	167.1	144.0	126.7	112.3	103.7	100.8	97.9	97.9
90°	236.2	204.5	169.9	144.0	123.9	109.5	95.1	89.3	83.5	83.5	83.5
92.5°	210.3	184.3	152.7	129.6	112.3	100.8	89.3	83.5	77.8	77.8	77.8
95°	184.3	161.3	135.4	118.1	103.7	92.2	83.5	77.8	74.9	74.9	74.9
97.5°	158.4	141.1	121.0	106.6	95.1	86.4	77.8	72.0	69.1	69.1	69.1
100°	132.5	121.0	106.6	95.1	86.4	77.8	69.1	66.2	63.4	63.4	63.4
102.5°	109.5	100.8	89.3	80.7	72.0	66.2	60.5	57.6	54.7	54.7	54.7
105°	95.1	89.3	80.7	72.0	66.2	60.5	54.7	49.0	49.0	49.0	49.0
107.5°	89.3	80.7	74.9	69.1	63.4	54.7	51.8	46.1	43.2	43.2	43.2
110°	86.4	80.7	74.9	66.2	60.5	54.7	49.0	43.2	40.3	40.3	40.3

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	86.4	80.7	74.9	69.1	63.4	54.7	51.8	40.3	37.4	37.4	37.4
115°	92.2	86.4	77.8	72.0	63.4	57.6	51.8	40.3	37.4	37.4	37.4
117.5°	97.9	92.2	83.5	77.8	69.1	60.5	51.8	40.3	37.4	37.4	37.4
120°	112.3	103.7	92.2	83.5	74.9	63.4	54.7	40.3	34.6	37.4	37.4
122.5°	126.7	118.1	103.7	92.2	80.7	69.1	54.7	40.3	34.6	37.4	37.4
125°	149.8	135.4	118.1	103.7	86.4	72.0	57.6	40.3	31.7	34.6	37.4
127.5°	175.7	158.4	135.4	115.2	95.1	74.9	57.6	40.3	31.7	34.6	34.6
130°	204.5	181.5	152.7	123.9	100.8	77.8	57.6	40.3	31.7	34.6	34.6
132.5°	233.3	201.6	167.1	135.4	106.6	80.7	57.6	37.4	31.7	31.7	31.7
135°	256.4	218.9	178.6	141.1	109.5	80.7	54.7	37.4	28.8	28.8	28.8
137.5°	276.5	233.3	187.2	144.0	109.5	77.8	51.8	34.6	25.9	25.9	25.9
140°	288.0	239.1	190.1	141.1	103.7	74.9	49.0	31.7	23.0	23.0	23.0
142.5°	288.0	236.2	184.3	138.3	97.9	69.1	43.2	25.9	20.2	20.2	20.2
145°	276.5	224.7	175.7	129.6	89.3	60.5	37.4	23.0	17.3	17.3	17.3
147.5°	259.2	207.4	161.3	118.1	80.7	51.8	31.7	20.2	14.4	14.4	14.4
150°	230.4	184.3	141.1	100.8	69.1	43.2	25.9	17.3	11.5	11.5	11.5
152.5°	193.0	152.7	118.1	83.5	57.6	34.6	23.0	11.5	8.6	8.6	8.6
155°	152.7	121.0	92.2	66.2	43.2	25.9	17.3	11.5	5.8	5.8	5.8
157.5°	115.2	89.3	69.1	49.0	31.7	20.2	11.5	8.6	5.8	5.8	5.8
160°	80.7	63.4	46.1	31.7	20.2	14.4	8.6	5.8	2.9	2.9	2.9
162.5°	51.8	40.3	28.8	20.2	11.5	8.6	5.8	2.9	2.9	2.9	0.0
165°	25.9	20.2	14.4	8.6	5.8	2.9	2.9	2.9	0.0	0.0	0.0
167.5°	5.8	5.8	5.8	2.9	2.9	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)