

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: P691665

Luminaire Tested: **CRTK2-C018-D-U-T2-7040-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691665
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-D-U-T2-7040-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K 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: 5130 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B2 - U4 - G2

Input Watts (W): 50.4
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



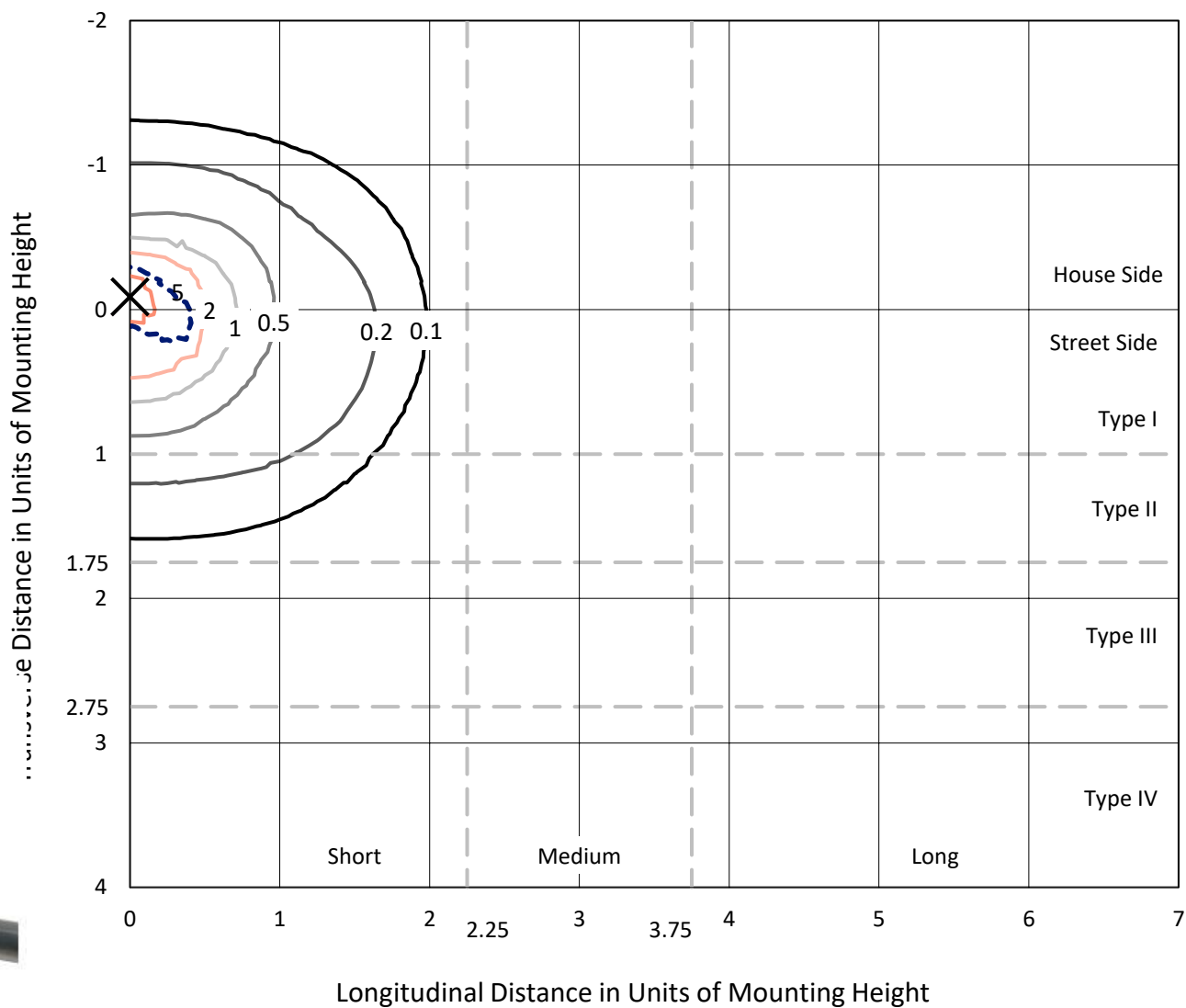
REPORT NUMBER: P691665

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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

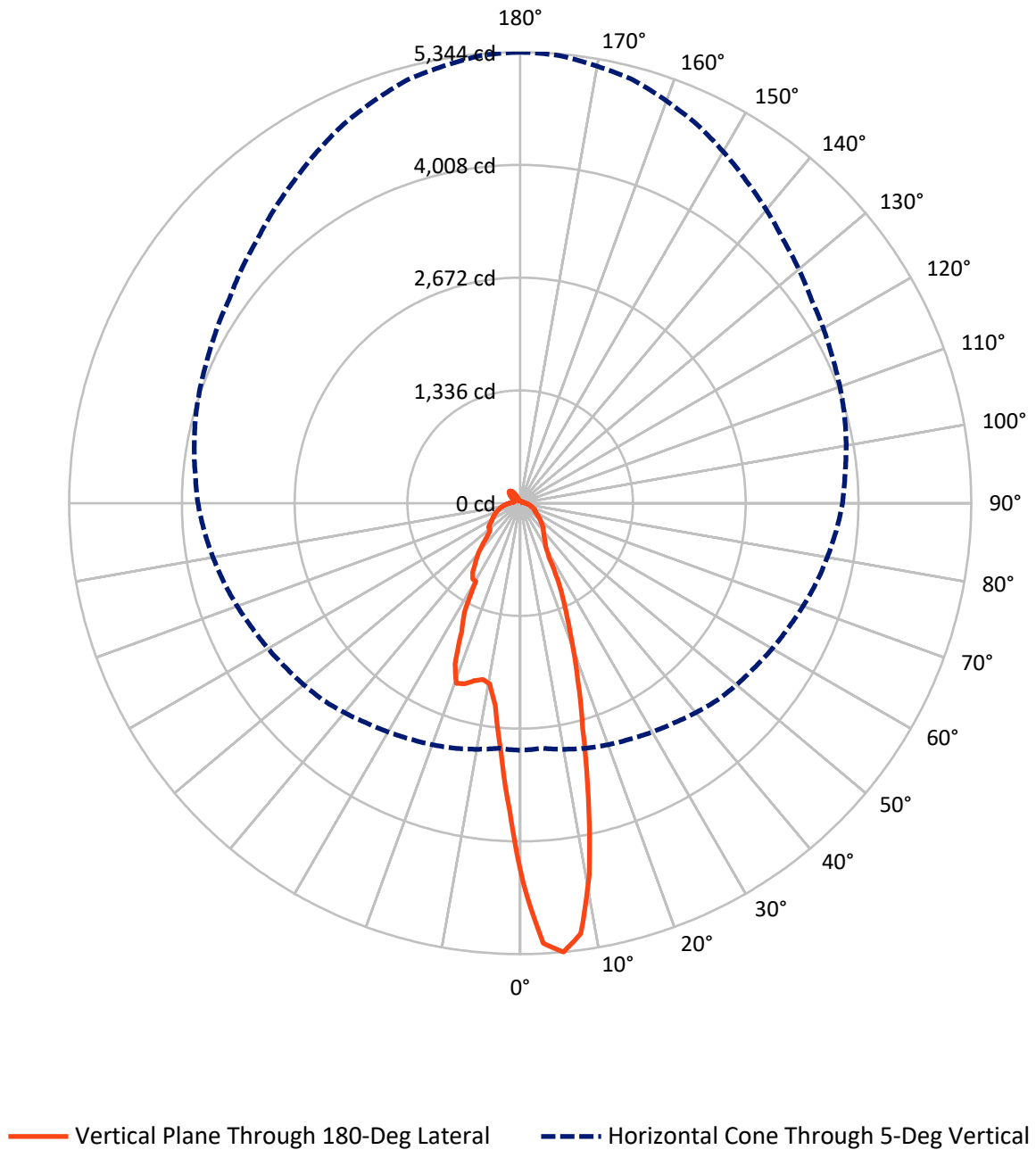


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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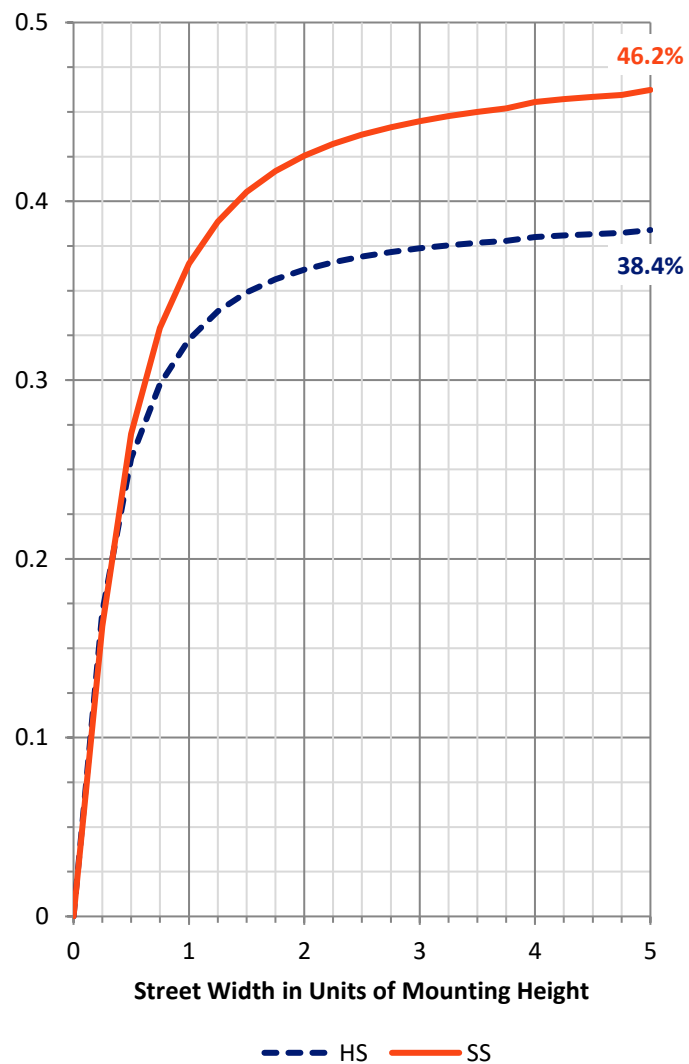
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2021.7	237.4	2259.0
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	2429.7	441.2	2871.0
	% Fixture	47.4	8.6	56.0
Total	Lumens	4451.4	678.6	5130.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.1	6.8
10°-20°	740.7	14.4
20°-30°	806.1	15.7
30°-40°	590.1	11.5
40°-50°	496.1	9.7
50°-60°	503.8	9.8
60°-70°	428.3	8.3
70°-80°	319.6	6.2
80°-90°	217.5	4.2
90°-100°	130.6	2.5
100°-110°	74.9	1.5
110°-120°	69.0	1.3
120°-130°	100.2	2.0
130°-140°	137.8	2.7
140°-150°	114.0	2.2
150°-160°	46.4	0.9
160°-170°	5.8	0.1
170°-180°	0.0	0.0
0°-90°	4451.4	86.8
0°-180°	5130.0	100.0

Coefficient of Utilization



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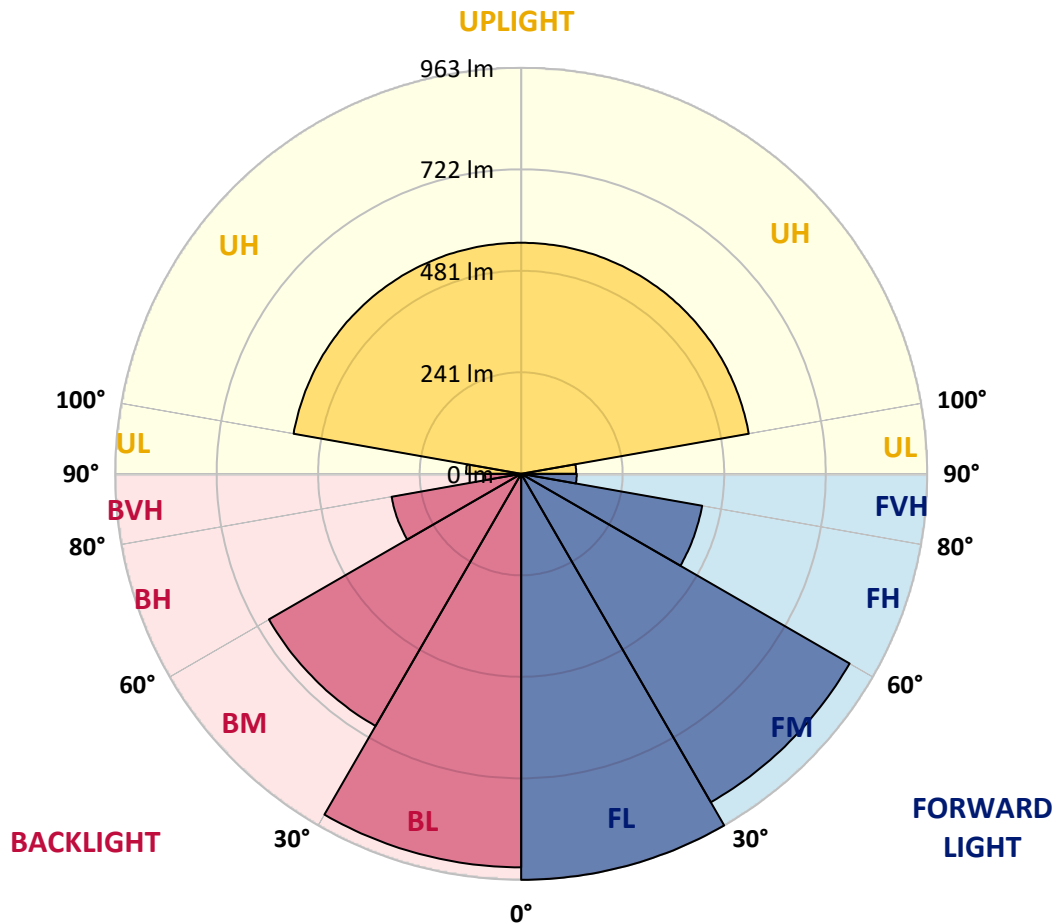
CATALOG NUMBER: CRTK2-C018-D-U-T2-7040-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	962.8	18.8			
FM	(30°-60°)	899.4	17.5			
FH	(60°-80°)	435.8	8.5			G0/660
FVH	(80°-90°)	131.7	2.6			G2/225
BL	(0°-30°)	933.1	18.2	B2/1000		
BM	(30°-60°)	690.7	13.5	B1/1000		
BH	(60°-80°)	312.1	6.1	B1/500		G1/500
BVH	(80°-90°)	85.8	1.7			G1/100
UL	(90°-100°)	130.6	2.5		U3/500	
UH	(100°-180°)	548.0	10.7		U4/1000	

BUG Rating: B2-U4-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4509.6	4509.6	4509.6	4509.6	4509.6	4509.6	4509.6	4509.6	4509.6	4509.6	4509.6
2.5°	3637.0	3630.1	3680.4	3691.8	3696.4	3748.9	3819.7	3867.7	3954.5	4039.0	4073.3
5°	2928.8	2915.0	3006.4	3084.1	3177.8	3301.1	3392.5	3502.2	3632.4	3758.0	3817.4
7.5°	2414.7	2433.0	2563.2	2723.1	2873.9	3020.1	3132.1	3225.7	3301.1	3381.1	3397.1
10°	2172.6	2188.6	2316.5	2469.6	2608.9	2757.4	2853.4	2933.3	2981.3	3040.7	3061.3
12.5°	2133.7	2145.2	2232.0	2339.3	2444.4	2579.2	2700.3	2789.4	2844.2	2892.2	2896.8
15°	2172.6	2177.1	2229.7	2300.5	2391.9	2503.8	2643.2	2743.7	2805.4	2826.0	2821.4
17.5°	2236.5	2236.5	2261.7	2321.1	2407.9	2515.3	2647.8	2750.6	2814.5	2823.7	2805.4
20°	2264.0	2268.5	2284.5	2350.8	2428.4	2526.7	2659.2	2746.0	2796.3	2771.1	2739.1
22.5°	2058.4	2049.2	2092.6	2232.0	2405.6	2581.5	2707.2	2805.4	2832.8	2748.3	2679.7
25°	1665.4	1670.0	1697.4	1765.9	1900.7	2062.9	2341.6	2640.9	2848.8	2816.8	2714.0
27.5°	1453.0	1439.2	1446.1	1457.5	1439.2	1405.0	1437.0	1430.1	1425.5	1507.8	1516.9
30°	1066.9	1069.2	1080.6	1101.1	1144.5	1208.5	1277.0	1315.9	1350.2	1414.1	1405.0
32.5°	1060.0	1062.3	1069.2	1087.4	1110.3	1153.7	1197.1	1213.1	1249.6	1302.2	1286.2
35°	991.5	984.6	1002.9	1018.9	1025.7	1044.0	1078.3	1101.1	1124.0	1160.5	1151.4
37.5°	879.5	881.8	918.4	943.5	950.4	975.5	1007.5	1025.7	1050.9	1082.9	1066.9
40°	783.6	785.9	829.3	856.7	872.7	907.0	954.9	977.8	1018.9	1044.0	1025.7
42.5°	673.9	683.1	712.8	744.8	753.9	774.5	806.4	836.1	888.7	922.9	911.5
45°	562.0	566.6	587.1	619.1	632.8	655.7	685.4	712.8	753.9	781.3	779.0
47.5°	495.7	500.3	518.6	546.0	573.4	603.1	635.1	662.5	701.3	724.2	715.1
50°	468.3	472.9	495.7	527.7	562.0	600.8	639.7	669.4	705.9	719.6	708.2
52.5°	472.9	472.9	504.9	546.0	594.0	646.5	694.5	731.0	760.7	769.9	744.8
55°	447.8	454.6	488.9	546.0	619.1	701.3	783.6	861.3	904.7	895.5	847.6
57.5°	408.9	415.8	440.9	502.6	580.3	678.5	795.0	891.0	943.5	950.4	902.4
60°	386.1	390.7	413.5	461.5	530.0	610.0	715.1	792.7	852.1	870.4	836.1
62.5°	365.5	370.1	388.4	424.9	475.2	536.9	596.3	646.5	694.5	712.8	699.1
65°	342.7	345.0	363.2	395.2	436.3	488.9	539.1	575.7	614.5	626.0	610.0
67.5°	319.8	322.1	338.1	367.8	406.6	454.6	493.5	534.6	573.4	582.6	571.1
70°	299.3	301.6	315.3	342.7	376.9	422.6	459.2	486.6	525.4	534.6	520.9
72.5°	278.7	281.0	294.7	319.8	351.8	392.9	424.9	452.3	484.3	486.6	475.2
75°	258.2	260.4	271.9	294.7	322.1	363.2	392.9	415.8	443.2	443.2	429.5
77.5°	235.3	239.9	249.0	269.6	294.7	333.5	361.0	383.8	406.6	404.4	390.7
80°	214.7	217.0	226.2	244.4	267.3	303.8	331.3	349.5	370.1	367.8	356.4
82.5°	191.9	194.2	201.0	219.3	239.9	274.1	301.6	319.8	338.1	333.5	322.1
85°	169.1	171.3	180.5	194.2	214.7	246.7	271.9	290.1	303.8	299.3	290.1
87.5°	150.8	150.8	157.6	171.3	189.6	219.3	242.2	260.4	271.9	269.6	260.4
90°	130.2	132.5	137.1	148.5	164.5	189.6	212.5	228.5	239.9	235.3	226.2
92.5°	114.2	114.2	118.8	130.2	143.9	166.8	187.3	201.0	210.2	207.9	201.0
95°	98.2	100.5	102.8	111.9	123.4	141.6	159.9	173.6	182.8	180.5	175.9
97.5°	86.8	89.1	91.4	95.9	107.4	118.8	134.8	146.2	155.3	153.1	148.5
100°	80.0	80.0	80.0	84.5	91.4	100.5	111.9	121.1	125.6	127.9	123.4
102.5°	73.1	73.1	75.4	75.4	80.0	84.5	91.4	98.2	100.5	100.5	100.5
105°	70.8	70.8	73.1	73.1	75.4	77.7	82.2	84.5	86.8	86.8	84.5
107.5°	70.8	70.8	70.8	70.8	73.1	75.4	77.7	80.0	80.0	80.0	77.7
110°	73.1	73.1	73.1	73.1	73.1	75.4	75.4	77.7	77.7	75.4	75.4

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CATALOG NUMBER: CRTK2-C018-D-U-T2-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	75.4	75.4	75.4	75.4	75.4	77.7	77.7	77.7	77.7	75.4	75.4
115°	80.0	80.0	80.0	82.2	82.2	82.2	82.2	82.2	82.2	80.0	77.7
117.5°	89.1	89.1	89.1	89.1	91.4	91.4	91.4	91.4	91.4	86.8	86.8
120°	100.5	98.2	100.5	102.8	105.1	105.1	105.1	105.1	105.1	100.5	98.2
122.5°	111.9	111.9	114.2	118.8	123.4	125.6	123.4	123.4	123.4	116.5	114.2
125°	125.6	125.6	132.5	141.6	148.5	150.8	148.5	148.5	148.5	141.6	137.1
127.5°	141.6	141.6	150.8	164.5	175.9	182.8	180.5	180.5	180.5	169.1	162.2
130°	157.6	157.6	171.3	189.6	207.9	212.5	214.7	217.0	217.0	203.3	194.2
132.5°	169.1	171.3	187.3	212.5	235.3	242.2	249.0	251.3	251.3	235.3	221.6
135°	180.5	182.8	203.3	233.0	258.2	274.1	281.0	283.3	285.6	267.3	251.3
137.5°	187.3	189.6	212.5	246.7	271.9	292.4	308.4	313.0	313.0	292.4	271.9
140°	187.3	189.6	214.7	246.7	274.1	299.3	317.5	326.7	326.7	306.1	287.8
142.5°	182.8	187.3	210.2	242.2	269.6	294.7	315.3	324.4	324.4	306.1	287.8
145°	173.6	175.9	198.8	226.2	253.6	283.3	306.1	315.3	315.3	297.0	278.7
147.5°	157.6	159.9	178.2	203.3	230.7	260.4	283.3	294.7	292.4	276.4	260.4
150°	137.1	137.1	153.1	173.6	201.0	228.5	251.3	262.7	262.7	246.7	233.0
152.5°	111.9	111.9	123.4	139.4	162.2	189.6	207.9	219.3	219.3	207.9	196.5
155°	86.8	86.8	95.9	107.4	125.6	146.2	159.9	171.3	171.3	162.2	153.1
157.5°	61.7	61.7	70.8	80.0	93.7	109.7	121.1	127.9	130.2	121.1	116.5
160°	41.1	41.1	45.7	52.5	64.0	75.4	82.2	89.1	91.4	84.5	82.2
162.5°	22.8	22.8	25.1	32.0	38.8	45.7	52.5	57.1	57.1	54.8	52.5
165°	6.9	6.9	9.1	11.4	16.0	20.6	22.8	25.1	27.4	27.4	25.1
167.5°	0.0	0.0	2.3	2.3	2.3	2.3	4.6	4.6	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

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	4509.6	4509.6	4509.6	4509.6	4509.6	4509.6	4509.6	4509.6	4509.6	4509.6	4509.6
2.5°	4144.1	4272.1	4411.4	4546.2	4710.7	4882.0	5039.7	5147.0	5204.1	5222.4	5222.4
5°	3863.1	3979.6	4082.4	4210.4	4409.1	4667.3	4952.8	5190.4	5325.2	5341.2	5343.5
7.5°	3424.5	3520.4	3627.8	3742.0	3918.0	4148.7	4525.6	4909.4	5128.7	5169.9	5153.9
10°	3065.8	3125.2	3189.2	3232.6	3356.0	3527.3	3783.2	4160.1	4429.7	4461.7	4484.5
12.5°	2899.1	2908.2	2889.9	2899.1	2940.2	3020.1	3145.8	3362.8	3538.7	3568.4	3584.4
15°	2814.5	2768.8	2695.7	2627.2	2590.6	2597.5	2624.9	2714.0	2743.7	2794.0	2771.1
17.5°	2775.7	2672.9	2558.7	2426.2	2343.9	2259.4	2213.7	2197.7	2186.3	2188.6	2209.1
20°	2677.5	2560.9	2378.2	2204.6	2072.1	1955.5	1857.3	1786.5	1747.7	1729.4	1743.1
22.5°	2574.7	2394.2	2179.4	1992.1	1802.5	1654.0	1542.1	1439.2	1382.1	1398.1	1379.9
25°	2576.9	2307.4	2051.5	1804.8	1626.6	1430.1	1251.9	1144.5	1050.9	1069.2	1094.3
27.5°	1624.3	1553.5	1370.7	1226.8	1048.6	950.4	861.3	785.9	733.3	735.6	728.8
30°	1377.6	1304.5	1213.1	1098.9	964.1	849.8	747.0	660.2	610.0	596.3	594.0
32.5°	1272.5	1210.8	1126.3	1014.3	891.0	776.7	673.9	594.0	543.7	541.4	541.4
35°	1133.1	1076.0	1005.2	909.2	804.2	699.1	603.1	534.6	493.5	493.5	491.2
37.5°	1046.3	996.1	927.5	838.4	744.8	639.7	555.1	493.5	450.1	447.8	450.1
40°	1000.6	948.1	881.8	797.3	703.6	603.1	523.2	459.2	427.2	424.9	422.6
42.5°	909.2	868.1	811.0	733.3	651.1	562.0	486.6	429.5	402.1	399.8	402.1
45°	772.2	742.5	703.6	646.5	578.0	502.6	436.3	392.9	365.5	365.5	365.5
47.5°	708.2	680.8	637.4	580.3	520.9	450.1	395.2	358.7	333.5	333.5	333.5
50°	692.2	657.9	600.8	536.9	472.9	411.2	361.0	324.4	306.1	303.8	306.1
52.5°	715.1	662.5	584.8	509.4	438.6	379.2	331.3	297.0	278.7	278.7	278.7
55°	797.3	701.3	598.5	502.6	418.1	351.8	303.8	269.6	251.3	249.0	251.3
57.5°	852.1	731.0	603.1	495.7	404.4	333.5	281.0	244.4	226.2	223.9	226.2
60°	804.2	705.9	582.6	477.5	392.9	319.8	265.0	228.5	210.2	207.9	207.9
62.5°	667.1	610.0	520.9	431.8	363.2	299.3	249.0	214.7	196.5	194.2	196.5
65°	591.7	541.4	463.8	392.9	333.5	278.7	235.3	205.6	187.3	187.3	187.3
67.5°	550.6	504.9	431.8	363.2	308.4	258.2	217.0	189.6	173.6	173.6	173.6
70°	502.6	456.9	390.7	329.0	278.7	235.3	198.8	171.3	157.6	155.3	157.6
72.5°	461.5	415.8	354.1	297.0	251.3	212.5	180.5	155.3	143.9	141.6	143.9
75°	415.8	372.4	313.0	262.7	223.9	189.6	162.2	139.4	130.2	127.9	127.9
77.5°	376.9	335.8	281.0	235.3	201.0	169.1	143.9	127.9	118.8	116.5	116.5
80°	342.7	303.8	251.3	210.2	178.2	150.8	130.2	114.2	105.1	105.1	105.1
82.5°	306.1	271.9	223.9	185.0	157.6	134.8	114.2	100.5	93.7	93.7	93.7
85°	276.4	242.2	196.5	164.5	137.1	116.5	100.5	89.1	82.2	82.2	82.2
87.5°	244.4	214.7	173.6	143.9	121.1	102.8	86.8	75.4	73.1	70.8	70.8
90°	212.5	185.0	148.5	123.4	102.8	86.8	73.1	64.0	61.7	59.4	59.4
92.5°	189.6	164.5	134.8	111.9	93.7	77.7	68.5	59.4	57.1	57.1	54.8
95°	164.5	143.9	118.8	100.5	84.5	73.1	64.0	57.1	54.8	54.8	52.5
97.5°	141.6	123.4	105.1	91.4	77.7	68.5	59.4	54.8	50.3	50.3	50.3
100°	118.8	105.1	91.4	77.7	70.8	61.7	54.8	50.3	48.0	45.7	45.7
102.5°	95.9	86.8	75.4	68.5	59.4	52.5	48.0	43.4	41.1	41.1	41.1
105°	82.2	75.4	68.5	61.7	54.8	48.0	43.4	38.8	36.6	36.6	36.6
107.5°	75.4	70.8	64.0	57.1	52.5	45.7	41.1	34.3	32.0	34.3	34.3
110°	73.1	68.5	61.7	57.1	50.3	45.7	41.1	32.0	29.7	32.0	32.0

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CATALOG NUMBER: CRTK2-C018-D-U-T2-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	73.1	68.5	64.0	57.1	52.5	45.7	41.1	32.0	29.7	29.7	29.7
115°	75.4	73.1	66.3	61.7	54.8	48.0	41.1	32.0	29.7	29.7	29.7
117.5°	84.5	80.0	73.1	66.3	59.4	50.3	43.4	32.0	29.7	29.7	29.7
120°	93.7	89.1	82.2	73.1	64.0	54.8	45.7	32.0	27.4	29.7	29.7
122.5°	109.7	102.8	93.7	82.2	70.8	59.4	45.7	34.3	25.1	29.7	29.7
125°	130.2	121.1	107.4	91.4	77.7	64.0	48.0	34.3	27.4	29.7	29.7
127.5°	153.1	141.6	123.4	102.8	84.5	66.3	50.3	34.3	27.4	27.4	29.7
130°	182.8	164.5	139.4	114.2	91.4	70.8	50.3	34.3	27.4	27.4	27.4
132.5°	207.9	185.0	153.1	123.4	95.9	73.1	50.3	34.3	25.1	25.1	25.1
135°	233.0	203.3	164.5	130.2	100.5	73.1	50.3	32.0	25.1	25.1	25.1
137.5°	253.6	214.7	173.6	132.5	100.5	70.8	48.0	29.7	22.8	22.8	22.8
140°	265.0	221.6	175.9	132.5	95.9	68.5	43.4	27.4	20.6	20.6	20.6
142.5°	265.0	219.3	173.6	127.9	91.4	64.0	38.8	22.8	18.3	18.3	18.3
145°	255.9	210.2	164.5	121.1	84.5	57.1	34.3	20.6	13.7	13.7	16.0
147.5°	239.9	194.2	150.8	109.7	75.4	48.0	29.7	16.0	11.4	11.4	11.4
150°	212.5	171.3	130.2	95.9	64.0	41.1	25.1	13.7	9.1	9.1	9.1
152.5°	178.2	141.6	109.7	80.0	52.5	32.0	18.3	11.4	6.9	6.9	6.9
155°	141.6	111.9	86.8	61.7	38.8	25.1	13.7	9.1	6.9	6.9	6.9
157.5°	105.1	84.5	64.0	45.7	29.7	18.3	11.4	6.9	4.6	4.6	4.6
160°	73.1	59.4	43.4	29.7	18.3	11.4	6.9	4.6	2.3	2.3	2.3
162.5°	48.0	36.6	27.4	18.3	11.4	6.9	4.6	2.3	2.3	2.3	2.3
165°	22.8	18.3	13.7	9.1	4.6	4.6	2.3	2.3	0.0	0.0	0.0
167.5°	6.9	4.6	2.3	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)