

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: P691573

Luminaire Tested: **CRTK2-C018-5TLD-U-T2-7040-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691573
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-T2-7040-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: 5924 lumens
Efficiency: N/A
Efficacy: 110.3 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

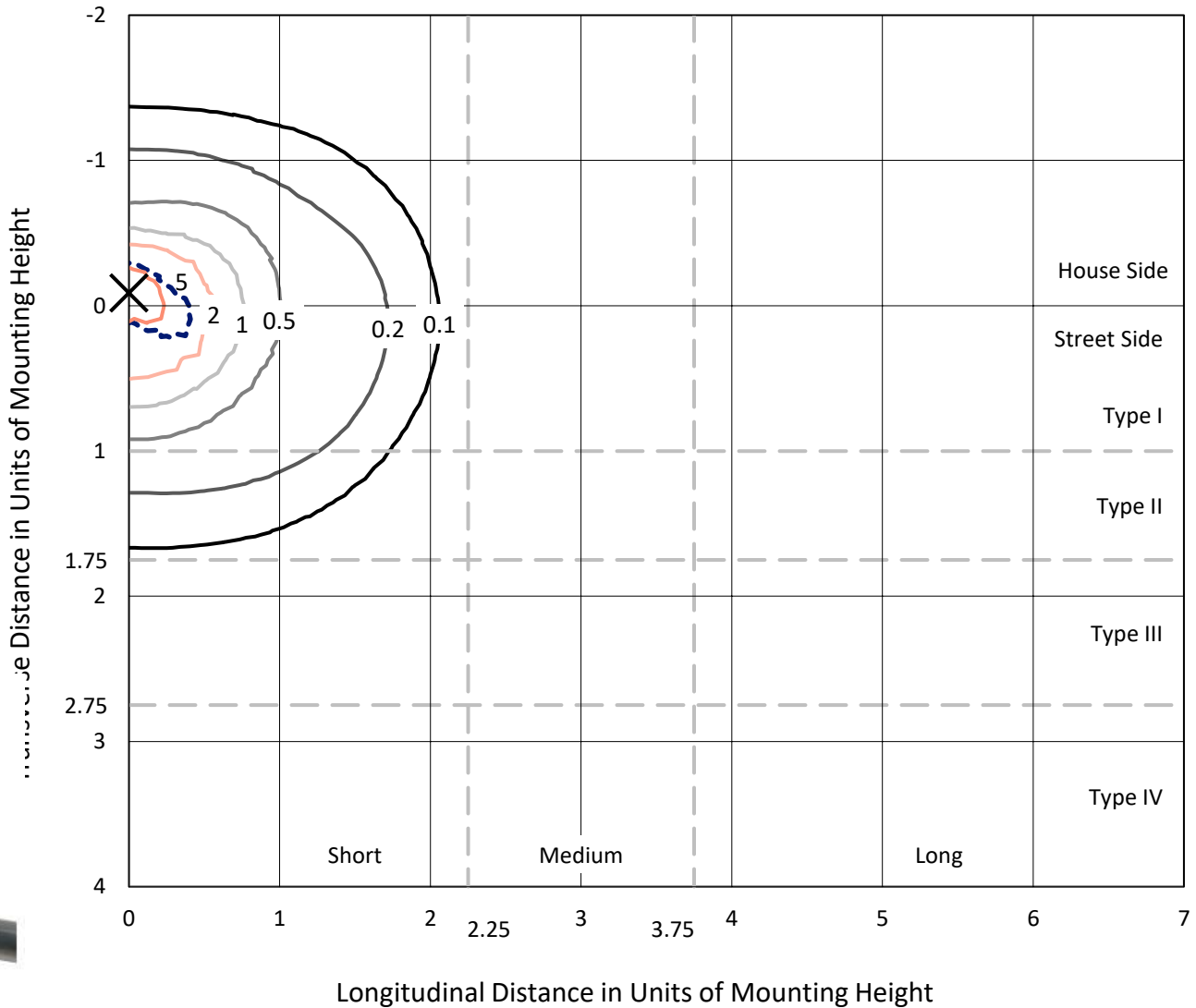


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

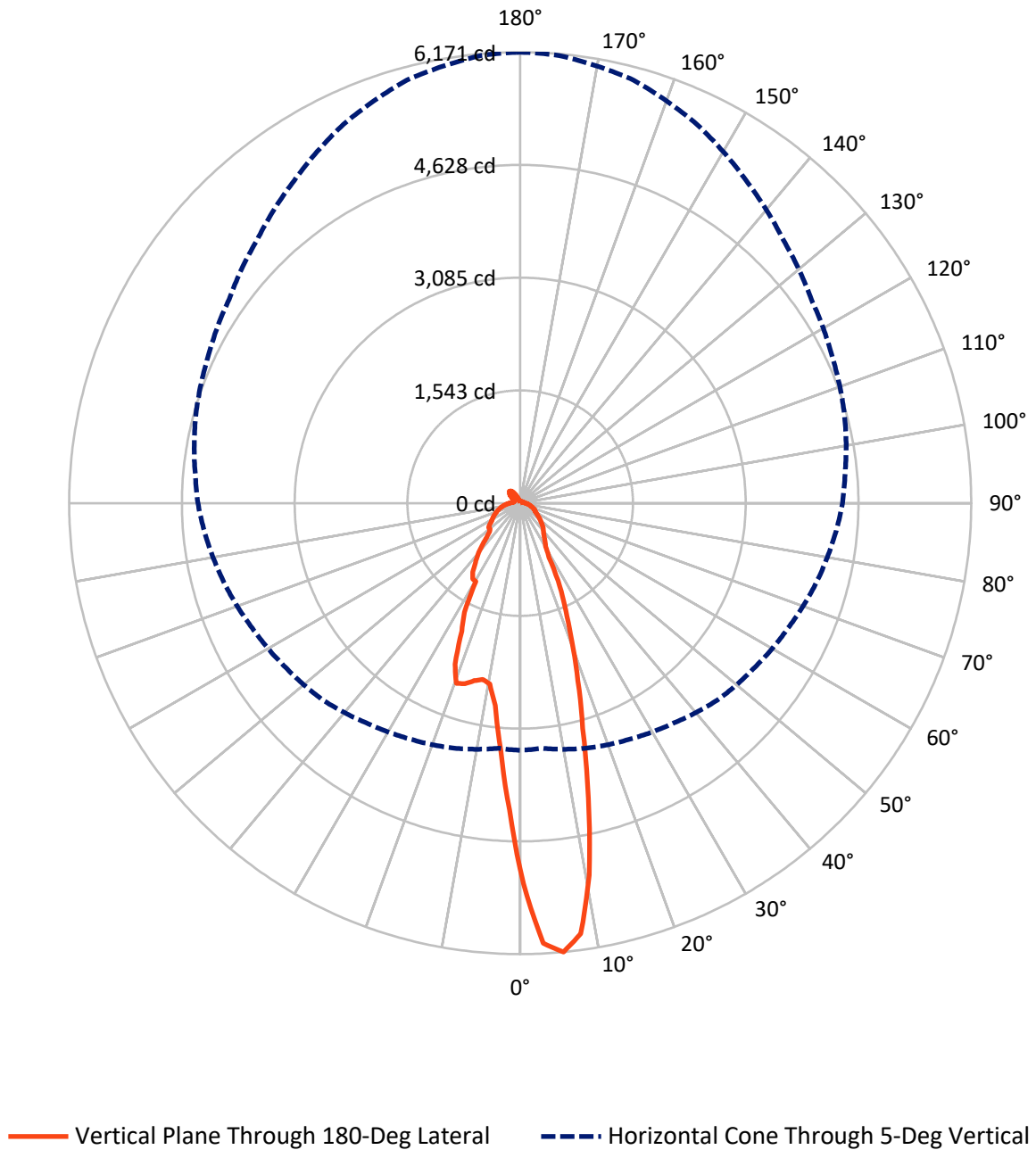


Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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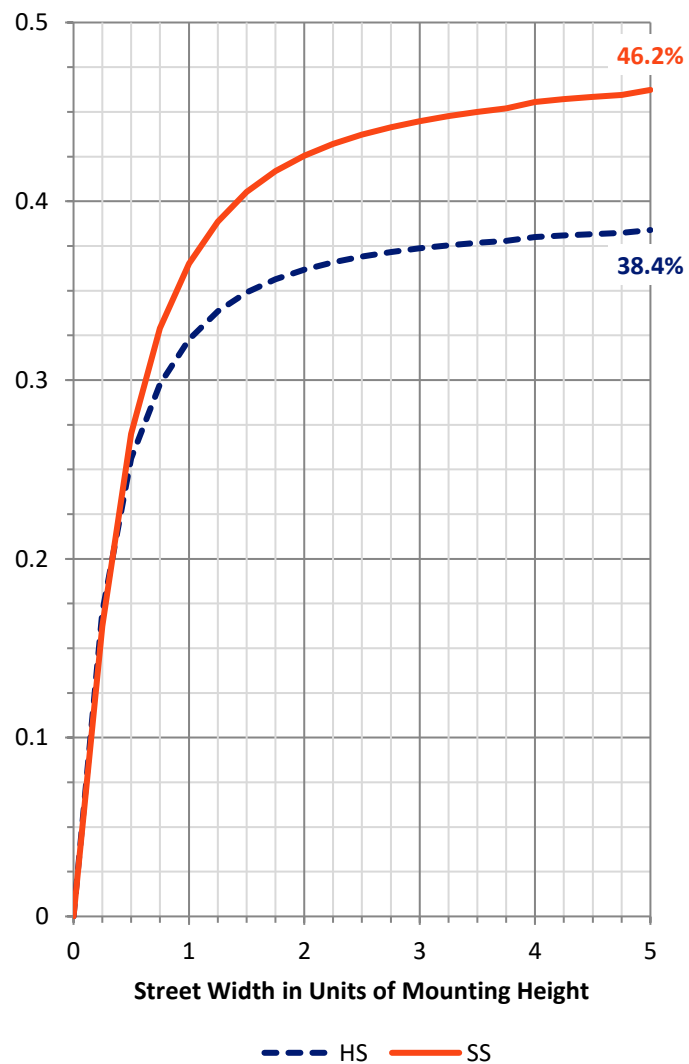
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2334.6	274.1	2608.7
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	2805.8	509.5	3315.3
	% Fixture	47.4	8.6	56.0
Total	Lumens	5140.4	783.6	5924.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.1	6.8
10°-20°	855.4	14.4
20°-30°	930.9	15.7
30°-40°	681.4	11.5
40°-50°	572.9	9.7
50°-60°	581.8	9.8
60°-70°	494.6	8.3
70°-80°	369.0	6.2
80°-90°	251.2	4.2
90°-100°	150.9	2.5
100°-110°	86.5	1.5
110°-120°	79.6	1.3
120°-130°	115.7	2.0
130°-140°	159.1	2.7
140°-150°	131.7	2.2
150°-160°	53.6	0.9
160°-170°	6.7	0.1
170°-180°	0.0	0.0
0°-90°	5140.4	86.8
0°-180°	5924.0	100.0

Coefficient of Utilization



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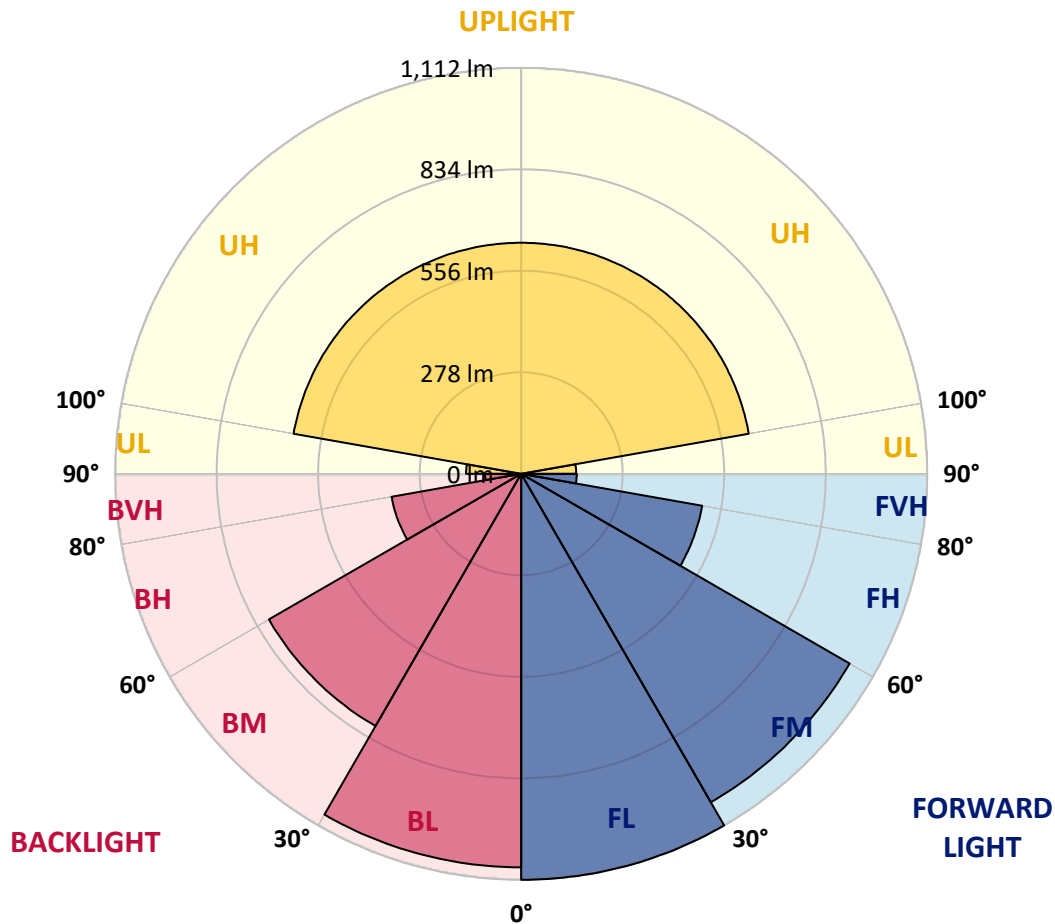
CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-7040-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1111.9	18.8			
FM	(30°-60°)	1038.6	17.5			
FH	(60°-80°)	503.3	8.5			G0/660
FVH	(80°-90°)	152.1	2.6			G2/225
BL	(0°-30°)	1077.6	18.2	B3/2500		
BM	(30°-60°)	797.6	13.5	B1/1000		
BH	(60°-80°)	360.4	6.1	B1/500		G1/500
BVH	(80°-90°)	99.1	1.7			G1/100
UL	(90°-100°)	150.9	2.5		U3/500	
UH	(100°-180°)	632.8	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°	5207.6	5207.6	5207.6	5207.6	5207.6	5207.6	5207.6	5207.6	5207.6	5207.6	5207.6
2.5°	4199.9	4192.0	4250.0	4263.2	4268.5	4329.1	4410.9	4466.3	4566.6	4664.2	4703.7
5°	3382.1	3366.2	3471.8	3561.4	3669.6	3812.1	3917.6	4044.2	4194.6	4339.7	4408.3
7.5°	2788.5	2809.6	2960.0	3144.6	3318.7	3487.6	3616.8	3725.0	3812.1	3904.4	3922.9
10°	2508.8	2527.3	2675.0	2851.8	3012.7	3184.2	3295.0	3387.3	3442.7	3511.3	3535.1
12.5°	2464.0	2477.2	2577.4	2701.4	2822.8	2978.4	3118.2	3221.1	3284.4	3339.8	3345.1
15°	2508.8	2514.1	2574.8	2656.6	2762.1	2891.4	3052.3	3168.4	3239.6	3263.3	3258.1
17.5°	2582.7	2582.7	2611.7	2680.3	2780.6	2904.6	3057.6	3176.3	3250.2	3260.7	3239.6
20°	2614.4	2619.6	2638.1	2714.6	2804.3	2917.7	3070.8	3171.0	3229.0	3200.0	3163.1
22.5°	2376.9	2366.4	2416.5	2577.4	2777.9	2981.1	3126.2	3239.6	3271.3	3173.6	3094.5
25°	1923.2	1928.5	1960.1	2039.3	2194.9	2382.2	2704.1	3049.7	3289.7	3252.8	3134.1
27.5°	1677.8	1662.0	1669.9	1683.1	1662.0	1622.4	1659.4	1651.5	1646.2	1741.2	1751.7
30°	1232.0	1234.6	1247.8	1271.6	1321.7	1395.6	1474.7	1519.6	1559.1	1633.0	1622.4
32.5°	1224.1	1226.7	1234.6	1255.7	1282.1	1332.2	1382.4	1400.8	1443.0	1503.7	1485.3
35°	1144.9	1137.0	1158.1	1176.6	1184.5	1205.6	1245.2	1271.6	1297.9	1340.2	1329.6
37.5°	1015.7	1018.3	1060.5	1089.5	1097.5	1126.5	1163.4	1184.5	1213.5	1250.5	1232.0
40°	904.9	907.5	957.6	989.3	1007.8	1047.3	1102.7	1129.1	1176.6	1205.6	1184.5
42.5°	778.2	788.8	823.1	860.0	870.6	894.3	931.3	965.5	1026.2	1065.8	1052.6
45°	649.0	654.3	678.0	714.9	730.8	757.1	791.4	823.1	870.6	902.2	899.6
47.5°	572.5	577.7	598.9	630.5	662.2	696.5	733.4	765.1	809.9	836.3	825.7
50°	540.8	546.1	572.5	609.4	649.0	693.8	738.7	773.0	815.2	831.0	817.8
52.5°	546.1	546.1	583.0	630.5	685.9	746.6	802.0	844.2	878.5	889.0	860.0
55°	517.1	525.0	564.6	630.5	714.9	809.9	904.9	994.6	1044.7	1034.1	978.7
57.5°	472.2	480.1	509.2	580.4	670.1	783.5	918.1	1028.9	1089.5	1097.5	1042.1
60°	445.8	451.1	477.5	532.9	612.0	704.4	825.7	915.4	984.0	1005.1	965.5
62.5°	422.1	427.4	448.5	490.7	548.7	620.0	688.5	746.6	802.0	823.1	807.3
65°	395.7	398.4	419.5	456.4	503.9	564.6	622.6	664.8	709.7	722.8	704.4
67.5°	369.3	372.0	390.4	424.7	469.6	525.0	569.8	617.3	662.2	672.7	659.5
70°	345.6	348.2	364.1	395.7	435.3	488.1	530.3	561.9	606.8	617.3	601.5
72.5°	321.8	324.5	340.3	369.3	406.3	453.8	490.7	522.3	559.3	561.9	548.7
75°	298.1	300.7	313.9	340.3	372.0	419.5	453.8	480.1	511.8	511.8	496.0
77.5°	271.7	277.0	287.6	311.3	340.3	385.2	416.8	443.2	469.6	466.9	451.1
80°	248.0	250.6	261.2	282.3	308.7	350.9	382.5	403.6	427.4	424.7	411.5
82.5°	221.6	224.2	232.2	253.3	277.0	316.6	348.2	369.3	390.4	385.2	372.0
85°	195.2	197.9	208.4	224.2	248.0	284.9	313.9	335.0	350.9	345.6	335.0
87.5°	174.1	174.1	182.0	197.9	219.0	253.3	279.6	300.7	313.9	311.3	300.7
90°	150.4	153.0	158.3	171.5	189.9	219.0	245.3	263.8	277.0	271.7	261.2
92.5°	131.9	131.9	137.2	150.4	166.2	192.6	216.3	232.2	242.7	240.1	232.2
95°	113.4	116.1	118.7	129.3	142.5	163.6	184.7	200.5	211.0	208.4	203.1
97.5°	100.2	102.9	105.5	110.8	124.0	137.2	155.6	168.8	179.4	176.8	171.5
100°	92.3	92.3	92.3	97.6	105.5	116.1	129.3	139.8	145.1	147.7	142.5
102.5°	84.4	84.4	87.1	87.1	92.3	97.6	105.5	113.4	116.1	116.1	116.1
105°	81.8	81.8	84.4	84.4	87.1	89.7	95.0	97.6	100.2	100.2	97.6
107.5°	81.8	81.8	81.8	81.8	84.4	87.1	89.7	92.3	92.3	92.3	89.7
110°	84.4	84.4	84.4	84.4	84.4	87.1	87.1	89.7	89.7	87.1	87.1

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CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	87.1	87.1	87.1	87.1	87.1	89.7	89.7	89.7	89.7	87.1	87.1
115°	92.3	92.3	92.3	95.0	95.0	95.0	95.0	95.0	95.0	92.3	89.7
117.5°	102.9	102.9	102.9	102.9	105.5	105.5	105.5	105.5	105.5	100.2	100.2
120°	116.1	113.4	116.1	118.7	121.4	121.4	121.4	121.4	121.4	116.1	113.4
122.5°	129.3	129.3	131.9	137.2	142.5	145.1	142.5	142.5	142.5	134.5	131.9
125°	145.1	145.1	153.0	163.6	171.5	174.1	171.5	171.5	171.5	163.6	158.3
127.5°	163.6	163.6	174.1	189.9	203.1	211.0	208.4	208.4	208.4	195.2	187.3
130°	182.0	182.0	197.9	219.0	240.1	245.3	248.0	250.6	250.6	234.8	224.2
132.5°	195.2	197.9	216.3	245.3	271.7	279.6	287.6	290.2	290.2	271.7	255.9
135°	208.4	211.0	234.8	269.1	298.1	316.6	324.5	327.1	329.8	308.7	290.2
137.5°	216.3	219.0	245.3	284.9	313.9	337.7	356.1	361.4	361.4	337.7	313.9
140°	216.3	219.0	248.0	284.9	316.6	345.6	366.7	377.2	377.2	353.5	332.4
142.5°	211.0	216.3	242.7	279.6	311.3	340.3	364.1	374.6	374.6	353.5	332.4
145°	200.5	203.1	229.5	261.2	292.8	327.1	353.5	364.1	364.1	343.0	321.8
147.5°	182.0	184.7	205.8	234.8	266.4	300.7	327.1	340.3	337.7	319.2	300.7
150°	158.3	158.3	176.8	200.5	232.2	263.8	290.2	303.4	303.4	284.9	269.1
152.5°	129.3	129.3	142.5	160.9	187.3	219.0	240.1	253.3	253.3	240.1	226.9
155°	100.2	100.2	110.8	124.0	145.1	168.8	184.7	197.9	197.9	187.3	176.8
157.5°	71.2	71.2	81.8	92.3	108.2	126.6	139.8	147.7	150.4	139.8	134.5
160°	47.5	47.5	52.8	60.7	73.9	87.1	95.0	102.9	105.5	97.6	95.0
162.5°	26.4	26.4	29.0	36.9	44.8	52.8	60.7	66.0	66.0	63.3	60.7
165°	7.9	7.9	10.6	13.2	18.5	23.7	26.4	29.0	31.7	31.7	29.0
167.5°	0.0	0.0	2.6	2.6	2.6	2.6	5.3	5.3	7.9	7.9	7.9
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°	5207.6	5207.6	5207.6	5207.6	5207.6	5207.6	5207.6	5207.6	5207.6	5207.6	5207.6
2.5°	4785.5	4933.3	5094.2	5249.8	5439.8	5637.6	5819.7	5943.7	6009.6	6030.7	6030.7
5°	4461.0	4595.6	4714.3	4862.0	5091.5	5389.7	5719.4	5993.8	6149.4	6167.9	6170.5
7.5°	3954.5	4065.3	4189.3	4321.2	4524.4	4790.8	5226.1	5669.3	5922.6	5970.0	5951.6
10°	3540.3	3608.9	3682.8	3732.9	3875.4	4073.2	4368.7	4804.0	5115.3	5152.2	5178.6
12.5°	3347.8	3358.3	3337.2	3347.8	3395.2	3487.6	3632.7	3883.3	4086.4	4120.7	4139.2
15°	3250.2	3197.4	3113.0	3033.8	2991.6	2999.5	3031.2	3134.1	3168.4	3226.4	3200.0
17.5°	3205.3	3086.6	2954.7	2801.7	2706.7	2609.1	2556.3	2537.9	2524.7	2527.3	2551.1
20°	3091.9	2957.3	2746.3	2545.8	2392.8	2258.2	2144.8	2063.0	2018.2	1997.0	2012.9
22.5°	2973.1	2764.7	2516.8	2300.4	2081.5	1910.0	1780.7	1662.0	1596.1	1614.5	1593.4
25°	2975.8	2664.5	2369.0	2084.1	1878.3	1651.5	1445.7	1321.7	1213.5	1234.6	1263.7
27.5°	1875.7	1793.9	1582.9	1416.7	1210.9	1097.5	994.6	907.5	846.8	849.5	841.6
30°	1590.8	1506.4	1400.8	1268.9	1113.3	981.4	862.7	762.4	704.4	688.5	685.9
32.5°	1469.4	1398.2	1300.6	1171.3	1028.9	897.0	778.2	685.9	627.9	625.2	625.2
35°	1308.5	1242.5	1160.8	1050.0	928.6	807.3	696.5	617.3	569.8	569.8	567.2
37.5°	1208.3	1150.2	1071.1	968.2	860.0	738.7	641.1	569.8	519.7	517.1	519.7
40°	1155.5	1094.8	1018.3	920.7	812.5	696.5	604.1	530.3	493.3	490.7	488.1
42.5°	1050.0	1002.5	936.5	846.8	751.9	649.0	561.9	496.0	464.3	461.7	464.3
45°	891.7	857.4	812.5	746.6	667.4	580.4	503.9	453.8	422.1	422.1	422.1
47.5°	817.8	786.2	736.0	670.1	601.5	519.7	456.4	414.2	385.2	385.2	385.2
50°	799.3	759.8	693.8	620.0	546.1	474.9	416.8	374.6	353.5	350.9	353.5
52.5°	825.7	765.1	675.4	588.3	506.5	437.9	382.5	343.0	321.8	321.8	321.8
55°	920.7	809.9	691.2	580.4	482.8	406.3	350.9	311.3	290.2	287.6	290.2
57.5°	984.0	844.2	696.5	572.5	466.9	385.2	324.5	282.3	261.2	258.5	261.2
60°	928.6	815.2	672.7	551.4	453.8	369.3	306.0	263.8	242.7	240.1	240.1
62.5°	770.3	704.4	601.5	498.6	419.5	345.6	287.6	248.0	226.9	224.2	226.9
65°	683.3	625.2	535.5	453.8	385.2	321.8	271.7	237.4	216.3	216.3	216.3
67.5°	635.8	583.0	498.6	419.5	356.1	298.1	250.6	219.0	200.5	200.5	200.5
70°	580.4	527.6	451.1	379.9	321.8	271.7	229.5	197.9	182.0	179.4	182.0
72.5°	532.9	480.1	408.9	343.0	290.2	245.3	208.4	179.4	166.2	163.6	166.2
75°	480.1	430.0	361.4	303.4	258.5	219.0	187.3	160.9	150.4	147.7	147.7
77.5°	435.3	387.8	324.5	271.7	232.2	195.2	166.2	147.7	137.2	134.5	134.5
80°	395.7	350.9	290.2	242.7	205.8	174.1	150.4	131.9	121.4	121.4	121.4
82.5°	353.5	313.9	258.5	213.7	182.0	155.6	131.9	116.1	108.2	108.2	108.2
85°	319.2	279.6	226.9	189.9	158.3	134.5	116.1	102.9	95.0	95.0	95.0
87.5°	282.3	248.0	200.5	166.2	139.8	118.7	100.2	87.1	84.4	81.8	81.8
90°	245.3	213.7	171.5	142.5	118.7	100.2	84.4	73.9	71.2	68.6	68.6
92.5°	219.0	189.9	155.6	129.3	108.2	89.7	79.1	68.6	66.0	66.0	63.3
95°	189.9	166.2	137.2	116.1	97.6	84.4	73.9	66.0	63.3	63.3	60.7
97.5°	163.6	142.5	121.4	105.5	89.7	79.1	68.6	63.3	58.0	58.0	58.0
100°	137.2	121.4	105.5	89.7	81.8	71.2	63.3	58.0	55.4	52.8	52.8
102.5°	110.8	100.2	87.1	79.1	68.6	60.7	55.4	50.1	47.5	47.5	47.5
105°	95.0	87.1	79.1	71.2	63.3	55.4	50.1	44.8	42.2	42.2	42.2
107.5°	87.1	81.8	73.9	66.0	60.7	52.8	47.5	39.6	36.9	36.9	39.6
110°	84.4	79.1	71.2	66.0	58.0	52.8	47.5	36.9	34.3	36.9	36.9

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	84.4	79.1	73.9	66.0	60.7	52.8	47.5	36.9	34.3	34.3	34.3
115°	87.1	84.4	76.5	71.2	63.3	55.4	47.5	36.9	34.3	34.3	34.3
117.5°	97.6	92.3	84.4	76.5	68.6	58.0	50.1	36.9	34.3	34.3	34.3
120°	108.2	102.9	95.0	84.4	73.9	63.3	52.8	36.9	31.7	34.3	34.3
122.5°	126.6	118.7	108.2	95.0	81.8	68.6	52.8	39.6	29.0	34.3	34.3
125°	150.4	139.8	124.0	105.5	89.7	73.9	55.4	39.6	31.7	34.3	34.3
127.5°	176.8	163.6	142.5	118.7	97.6	76.5	58.0	39.6	31.7	31.7	34.3
130°	211.0	189.9	160.9	131.9	105.5	81.8	58.0	39.6	31.7	31.7	31.7
132.5°	240.1	213.7	176.8	142.5	110.8	84.4	58.0	39.6	29.0	29.0	29.0
135°	269.1	234.8	189.9	150.4	116.1	84.4	58.0	36.9	29.0	29.0	29.0
137.5°	292.8	248.0	200.5	153.0	116.1	81.8	55.4	34.3	26.4	26.4	26.4
140°	306.0	255.9	203.1	153.0	110.8	79.1	50.1	31.7	23.7	23.7	23.7
142.5°	306.0	253.3	200.5	147.7	105.5	73.9	44.8	26.4	21.1	21.1	21.1
145°	295.5	242.7	189.9	139.8	97.6	66.0	39.6	23.7	15.8	15.8	18.5
147.5°	277.0	224.2	174.1	126.6	87.1	55.4	34.3	18.5	13.2	13.2	13.2
150°	245.3	197.9	150.4	110.8	73.9	47.5	29.0	15.8	10.6	10.6	10.6
152.5°	205.8	163.6	126.6	92.3	60.7	36.9	21.1	13.2	7.9	7.9	7.9
155°	163.6	129.3	100.2	71.2	44.8	29.0	15.8	10.6	7.9	7.9	7.9
157.5°	121.4	97.6	73.9	52.8	34.3	21.1	13.2	7.9	5.3	5.3	5.3
160°	84.4	68.6	50.1	34.3	21.1	13.2	7.9	5.3	2.6	2.6	2.6
162.5°	55.4	42.2	31.7	21.1	13.2	7.9	5.3	2.6	2.6	2.6	2.6
165°	26.4	21.1	15.8	10.6	5.3	5.3	2.6	2.6	0.0	0.0	0.0
167.5°	7.9	5.3	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)