

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: P691381

Luminaire Tested: **CRTK2-C016-5TLD-U-T2-7030-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691381
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-C016-5TLD-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: 4487 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B2 - U3 - G2

Input Watts (W): 42.8
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



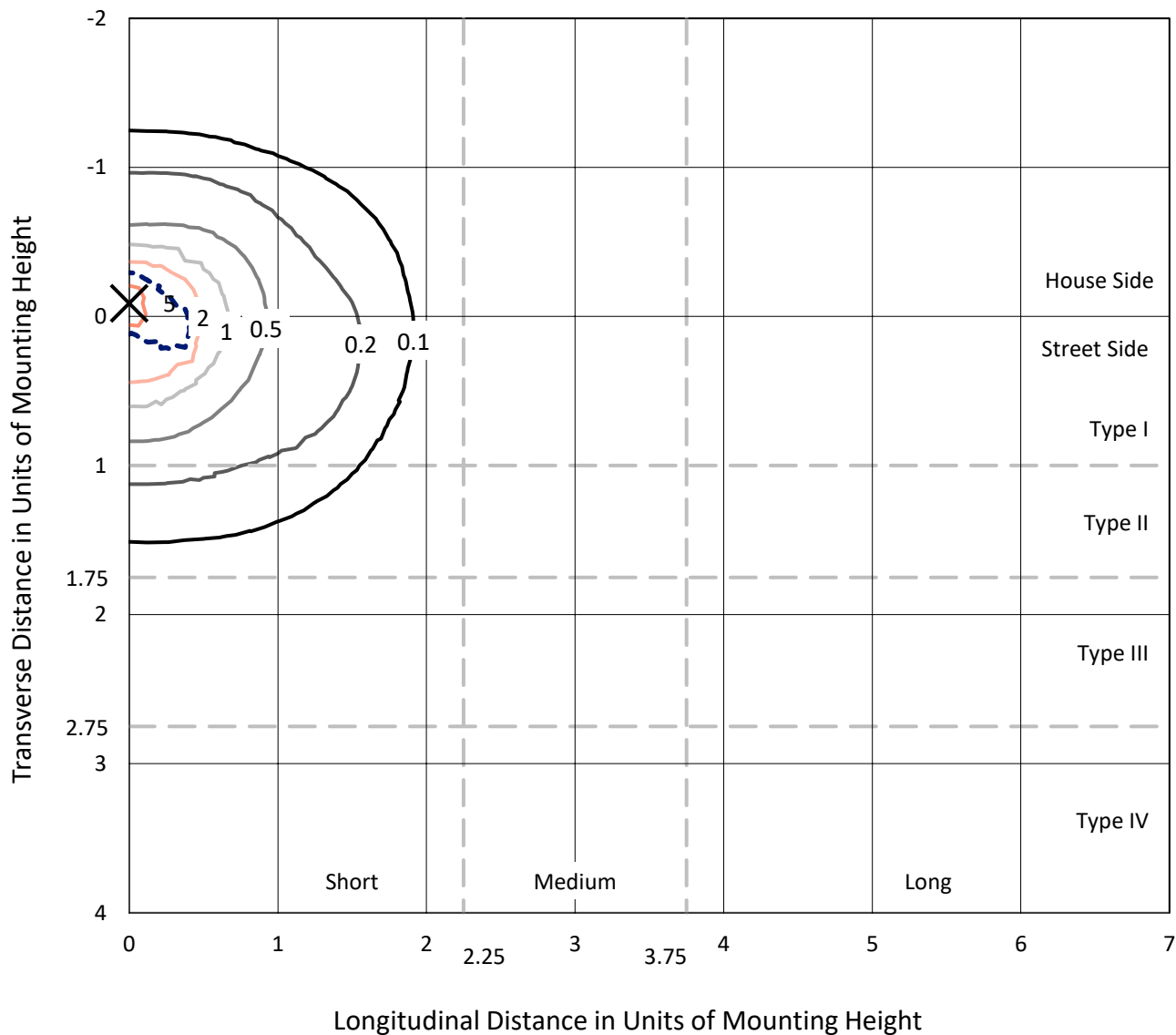
REPORT NUMBER: P691381

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



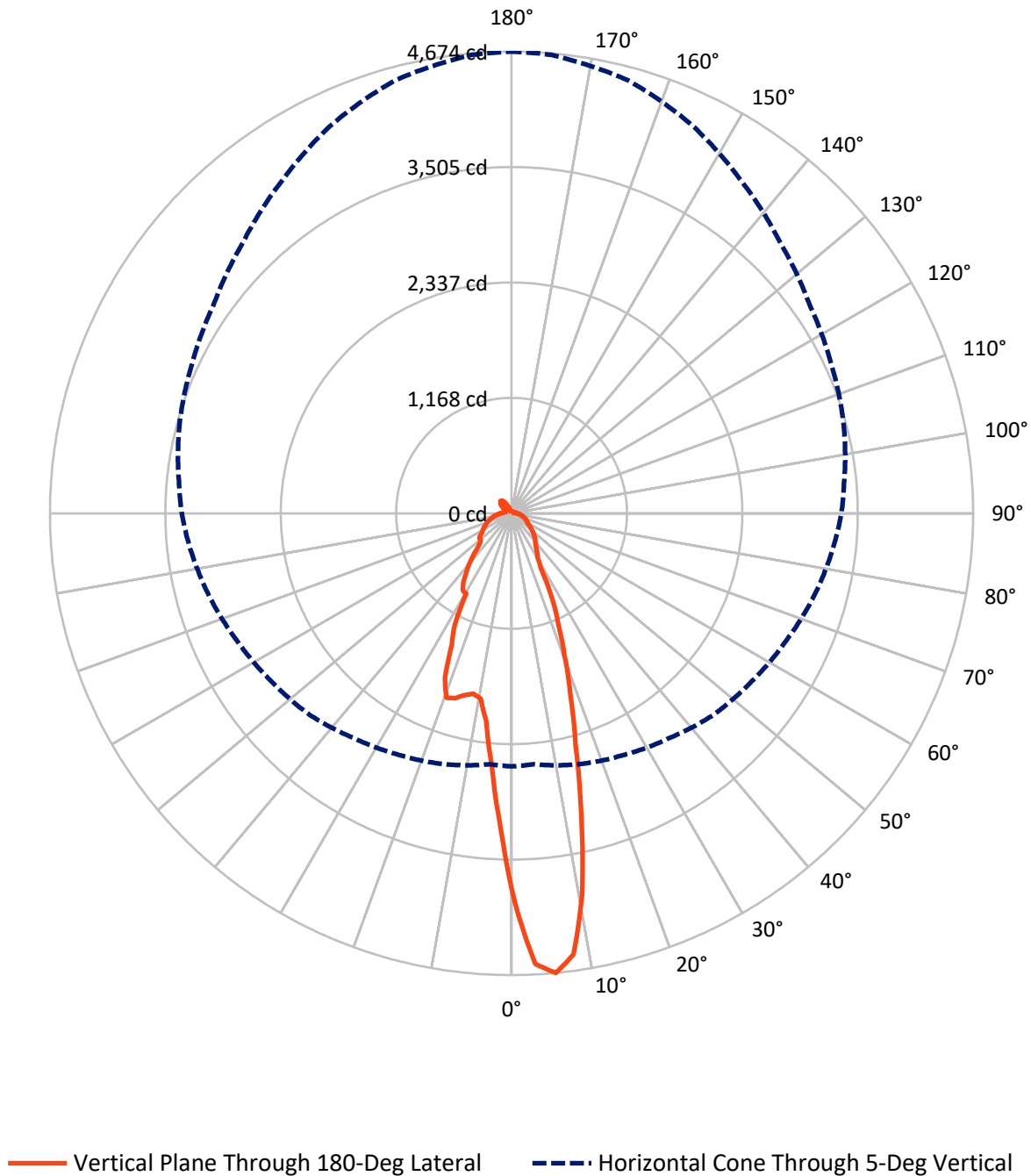
Based on 25 foot mounting height. Maximum calculated value = 7.1 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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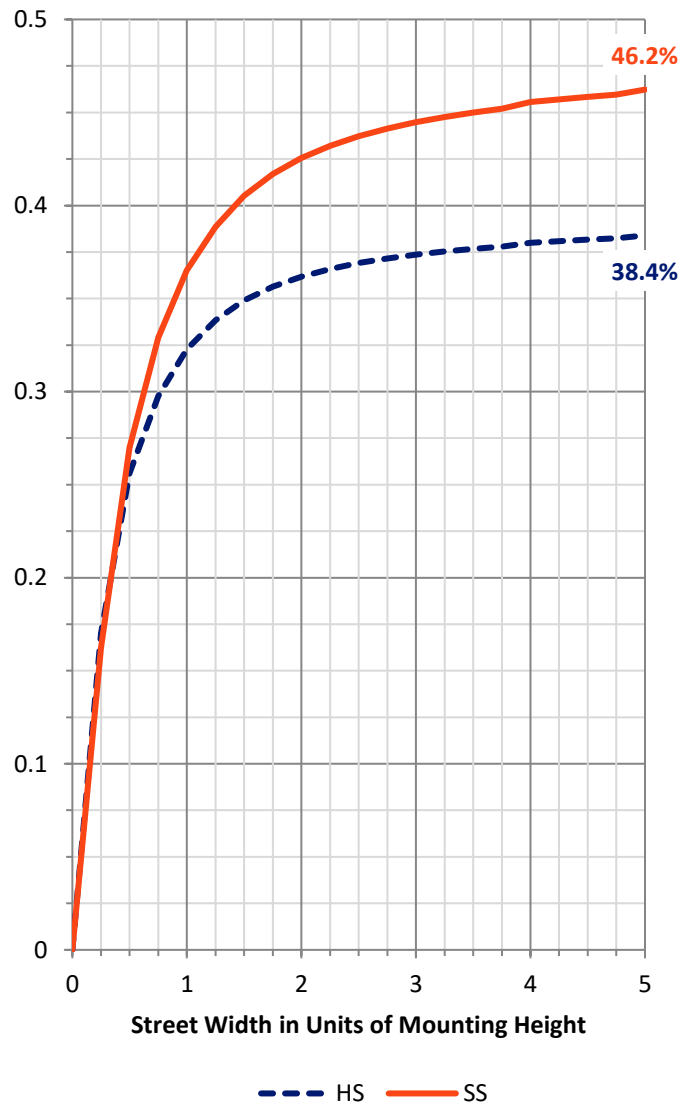
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1768.3	207.6	1975.9
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	2125.2	385.9	2511.1
	% Fixture	47.4	8.6	56.0
Total	Lumens	3893.5	593.5	4487.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.3	6.8
10°-20°	647.9	14.4
20°-30°	705.1	15.7
30°-40°	516.1	11.5
40°-50°	433.9	9.7
50°-60°	440.7	9.8
60°-70°	374.6	8.3
70°-80°	279.5	6.2
80°-90°	190.3	4.2
90°-100°	114.3	2.5
100°-110°	65.5	1.5
110°-120°	60.3	1.3
120°-130°	87.6	2.0
130°-140°	120.5	2.7
140°-150°	99.7	2.2
150°-160°	40.6	0.9
160°-170°	5.0	0.1
170°-180°	0.0	0.0
0°-90°	3893.5	86.8
0°-180°	4487.0	100.0

Coefficient of Utilization



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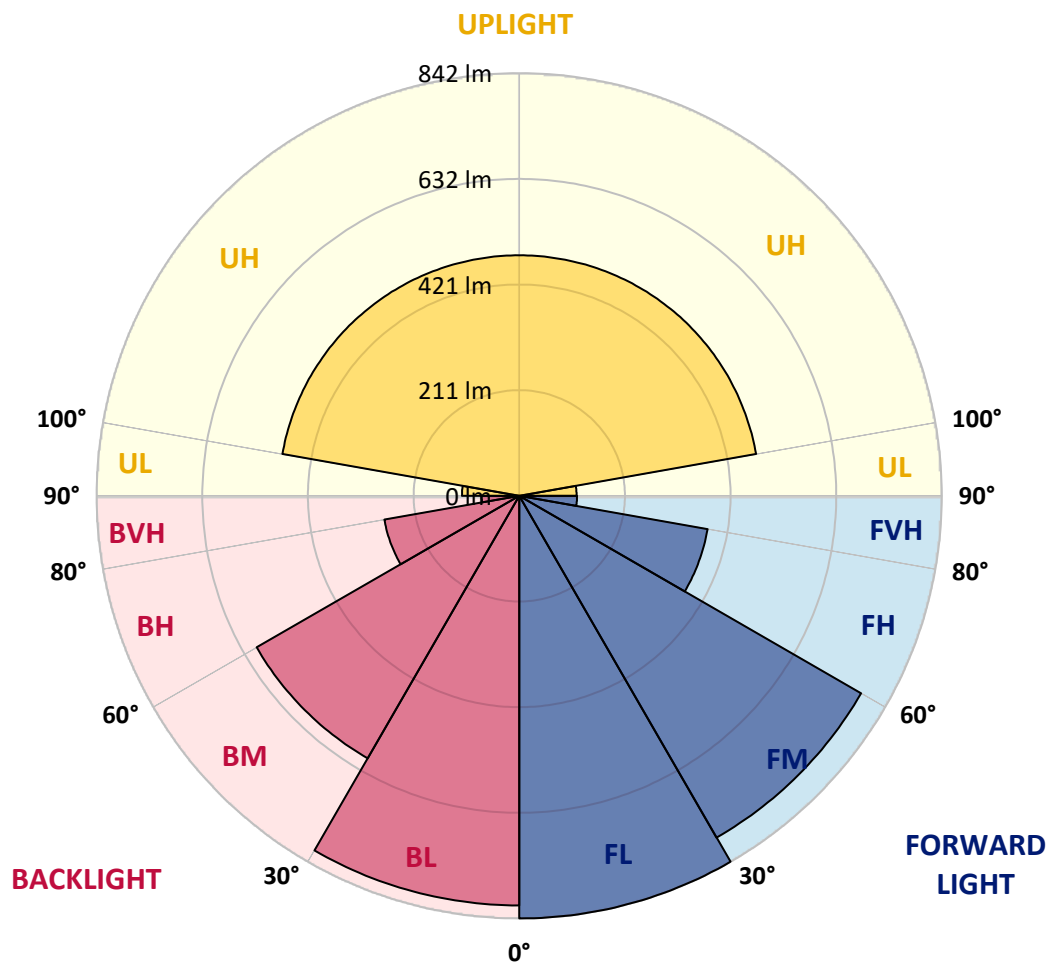
CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-7030-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	842.1	18.8			
FM	(30°-60°)	786.6	17.5			
FH	(60°-80°)	381.2	8.5			G0/660
FVH	(80°-90°)	115.2	2.6			G2/225
BL	(0°-30°)	816.2	18.2	B2/1000		
BM	(30°-60°)	604.1	13.5	B1/1000		
BH	(60°-80°)	272.9	6.1	B1/500		G1/500
BVH	(80°-90°)	75.0	1.7			G1/100
UL	(90°-100°)	114.3	2.5		U3/500	
UH	(100°-180°)	479.3	10.7		U3/500	

BUG Rating: B2-U3-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3944.4	3944.4	3944.4	3944.4	3944.4	3944.4	3944.4	3944.4	3944.4	3944.4	3944.4
2.5°	3181.1	3175.1	3219.1	3229.1	3233.0	3279.0	3341.0	3382.9	3458.8	3532.8	3562.7
5°	2561.7	2549.7	2629.6	2697.5	2779.5	2887.4	2967.3	3063.2	3177.1	3287.0	3339.0
7.5°	2112.1	2128.1	2242.0	2381.8	2513.7	2641.6	2739.5	2821.4	2887.4	2957.3	2971.3
10°	1900.3	1914.3	2026.2	2160.0	2281.9	2411.8	2495.7	2565.7	2607.6	2659.6	2677.6
12.5°	1866.3	1876.3	1952.2	2046.1	2138.0	2255.9	2361.8	2439.8	2487.7	2529.7	2533.7
15°	1900.3	1904.3	1950.2	2012.2	2092.1	2190.0	2311.9	2399.8	2453.8	2471.7	2467.7
17.5°	1956.2	1956.2	1978.2	2030.1	2106.1	2200.0	2315.9	2405.8	2461.8	2469.7	2453.8
20°	1980.2	1984.2	1998.2	2056.1	2124.1	2210.0	2325.9	2401.8	2445.8	2423.8	2395.8
22.5°	1800.4	1792.4	1830.3	1952.2	2104.1	2257.9	2367.8	2453.8	2477.7	2403.8	2343.9
25°	1456.7	1460.7	1484.6	1544.6	1662.5	1804.4	2048.1	2309.9	2491.7	2463.8	2373.8
27.5°	1270.8	1258.9	1264.8	1274.8	1258.9	1228.9	1256.9	1250.9	1246.9	1318.8	1326.8
30°	933.1	935.1	945.1	963.1	1001.1	1057.0	1117.0	1150.9	1180.9	1236.9	1228.9
32.5°	927.2	929.2	935.1	951.1	971.1	1009.1	1047.0	1061.0	1093.0	1139.0	1125.0
35°	867.2	861.2	877.2	891.2	897.2	913.2	943.1	963.1	983.1	1015.1	1007.1
37.5°	769.3	771.3	803.3	825.2	831.2	853.2	881.2	897.2	919.2	947.1	933.1
40°	685.4	687.4	725.3	749.3	763.3	793.3	835.2	855.2	891.2	913.2	897.2
42.5°	589.5	597.5	623.4	651.4	659.4	677.4	705.4	731.3	777.3	807.3	797.3
45°	491.6	495.5	513.5	541.5	553.5	573.5	599.5	623.4	659.4	683.4	681.4
47.5°	433.6	437.6	453.6	477.6	501.5	527.5	555.5	579.5	613.4	633.4	625.4
50°	409.6	413.6	433.6	461.6	491.6	525.5	559.5	585.5	617.4	629.4	619.4
52.5°	413.6	413.6	441.6	477.6	519.5	565.5	607.4	639.4	665.4	673.4	651.4
55°	391.6	397.6	427.6	477.6	541.5	613.4	685.4	753.3	791.3	783.3	741.3
57.5°	357.7	363.7	385.6	439.6	507.5	593.5	695.4	779.3	825.2	831.2	789.3
60°	337.7	341.7	361.7	403.6	463.6	533.5	625.4	693.4	745.3	761.3	731.3
62.5°	319.7	323.7	339.7	371.7	415.6	469.6	521.5	565.5	607.4	623.4	611.4
65°	299.7	301.7	317.7	345.7	381.7	427.6	471.6	503.5	537.5	547.5	533.5
67.5°	279.7	281.7	295.7	321.7	355.7	397.6	431.6	467.6	501.5	509.5	499.5
70°	261.8	263.8	275.7	299.7	329.7	369.7	401.6	425.6	459.6	467.6	455.6
72.5°	243.8	245.8	257.8	279.7	307.7	343.7	371.7	395.6	423.6	425.6	415.6
75°	225.8	227.8	237.8	257.8	281.7	317.7	343.7	363.7	387.6	387.6	375.7
77.5°	205.8	209.8	217.8	235.8	257.8	291.7	315.7	335.7	355.7	353.7	341.7
80°	187.8	189.8	197.8	213.8	233.8	265.8	289.7	305.7	323.7	321.7	311.7
82.5°	167.8	169.8	175.8	191.8	209.8	239.8	263.8	279.7	295.7	291.7	281.7
85°	147.9	149.9	157.9	169.8	187.8	215.8	237.8	253.8	265.8	261.8	253.8
87.5°	131.9	131.9	137.9	149.9	165.8	191.8	211.8	227.8	237.8	235.8	227.8
90°	113.9	115.9	119.9	129.9	143.9	165.8	185.8	199.8	209.8	205.8	197.8
92.5°	99.9	99.9	103.9	113.9	125.9	145.9	163.9	175.8	183.8	181.8	175.8
95°	85.9	87.9	89.9	97.9	107.9	123.9	139.9	151.9	159.9	157.9	153.9
97.5°	75.9	77.9	79.9	83.9	93.9	103.9	117.9	127.9	135.9	133.9	129.9
100°	69.9	69.9	69.9	73.9	79.9	87.9	97.9	105.9	109.9	111.9	107.9
102.5°	63.9	63.9	65.9	65.9	69.9	73.9	79.9	85.9	87.9	87.9	87.9
105°	61.9	61.9	63.9	63.9	65.9	67.9	71.9	73.9	75.9	75.9	73.9
107.5°	61.9	61.9	61.9	61.9	63.9	65.9	67.9	69.9	69.9	69.9	67.9
110°	63.9	63.9	63.9	63.9	63.9	65.9	65.9	67.9	67.9	65.9	65.9



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CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	65.9	65.9	65.9	65.9	65.9	67.9	67.9	67.9	67.9	65.9	65.9
115°	69.9	69.9	69.9	71.9	71.9	71.9	71.9	71.9	71.9	69.9	67.9
117.5°	77.9	77.9	77.9	77.9	79.9	79.9	79.9	79.9	79.9	75.9	75.9
120°	87.9	85.9	87.9	89.9	91.9	91.9	91.9	91.9	91.9	87.9	85.9
122.5°	97.9	97.9	99.9	103.9	107.9	109.9	107.9	107.9	107.9	101.9	99.9
125°	109.9	109.9	115.9	123.9	129.9	131.9	129.9	129.9	129.9	123.9	119.9
127.5°	123.9	123.9	131.9	143.9	153.9	159.9	157.9	157.9	157.9	147.9	141.9
130°	137.9	137.9	149.9	165.8	181.8	185.8	187.8	189.8	189.8	177.8	169.8
132.5°	147.9	149.9	163.9	185.8	205.8	211.8	217.8	219.8	219.8	205.8	193.8
135°	157.9	159.9	177.8	203.8	225.8	239.8	245.8	247.8	249.8	233.8	219.8
137.5°	163.9	165.8	185.8	215.8	237.8	255.8	269.8	273.8	273.8	255.8	237.8
140°	163.9	165.8	187.8	215.8	239.8	261.8	277.7	285.7	285.7	267.8	251.8
142.5°	159.9	163.9	183.8	211.8	235.8	257.8	275.7	283.7	283.7	267.8	251.8
145°	151.9	153.9	173.8	197.8	221.8	247.8	267.8	275.7	275.7	259.8	243.8
147.5°	137.9	139.9	155.9	177.8	201.8	227.8	247.8	257.8	255.8	241.8	227.8
150°	119.9	119.9	133.9	151.9	175.8	199.8	219.8	229.8	229.8	215.8	203.8
152.5°	97.9	97.9	107.9	121.9	141.9	165.8	181.8	191.8	191.8	181.8	171.8
155°	75.9	75.9	83.9	93.9	109.9	127.9	139.9	149.9	149.9	141.9	133.9
157.5°	54.0	54.0	61.9	69.9	81.9	95.9	105.9	111.9	113.9	105.9	101.9
160°	36.0	36.0	40.0	46.0	55.9	65.9	71.9	77.9	79.9	73.9	71.9
162.5°	20.0	20.0	22.0	28.0	34.0	40.0	46.0	50.0	50.0	48.0	46.0
165°	6.0	6.0	8.0	10.0	14.0	18.0	20.0	22.0	24.0	24.0	22.0
167.5°	0.0	0.0	2.0	2.0	2.0	2.0	4.0	4.0	6.0	6.0	6.0
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

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	3944.4	3944.4	3944.4	3944.4	3944.4	3944.4	3944.4	3944.4	3944.4	3944.4	3944.4
2.5°	3624.7	3736.6	3858.5	3976.4	4120.2	4270.1	4408.0	4501.9	4551.8	4567.8	4567.8
5°	3378.9	3480.8	3570.7	3682.6	3856.5	4082.3	4332.0	4539.9	4657.7	4671.7	4673.7
7.5°	2995.3	3079.2	3173.1	3273.0	3426.9	3628.7	3958.4	4294.1	4485.9	4521.9	4507.9
10°	2681.6	2733.5	2789.5	2827.4	2935.3	3085.2	3309.0	3638.7	3874.5	3902.4	3922.4
12.5°	2535.7	2543.7	2527.7	2535.7	2571.7	2641.6	2751.5	2941.3	3095.2	3121.2	3135.1
15°	2461.8	2421.8	2357.8	2297.9	2265.9	2271.9	2295.9	2373.8	2399.8	2443.8	2423.8
17.5°	2427.8	2337.9	2238.0	2122.1	2050.1	1976.2	1936.2	1922.2	1912.3	1914.3	1932.2
20°	2341.9	2240.0	2080.1	1928.2	1812.3	1710.4	1624.5	1562.6	1528.6	1512.6	1524.6
22.5°	2251.9	2094.1	1906.3	1742.4	1576.6	1446.7	1348.8	1258.9	1208.9	1222.9	1206.9
25°	2253.9	2018.2	1794.4	1578.6	1422.7	1250.9	1095.0	1001.1	919.2	935.1	957.1
27.5°	1420.7	1358.8	1198.9	1073.0	917.2	831.2	753.3	687.4	641.4	643.4	637.4
30°	1204.9	1141.0	1061.0	961.1	843.2	743.3	653.4	577.5	533.5	521.5	519.5
32.5°	1113.0	1059.0	985.1	887.2	779.3	679.4	589.5	519.5	475.6	473.6	473.6
35°	991.1	941.1	879.2	795.3	703.4	611.4	527.5	467.6	431.6	431.6	429.6
37.5°	915.2	871.2	811.3	733.3	651.4	559.5	485.6	431.6	393.6	391.6	393.6
40°	875.2	829.2	771.3	697.4	615.4	527.5	457.6	401.6	373.7	371.7	369.7
42.5°	795.3	759.3	709.4	641.4	569.5	491.6	425.6	375.7	351.7	349.7	351.7
45°	675.4	649.4	615.4	565.5	505.5	439.6	381.7	343.7	319.7	319.7	319.7
47.5°	619.4	595.5	557.5	507.5	455.6	393.6	345.7	313.7	291.7	291.7	291.7
50°	605.4	575.5	525.5	469.6	413.6	359.7	315.7	283.7	267.8	265.8	267.8
52.5°	625.4	579.5	511.5	445.6	383.6	331.7	289.7	259.8	243.8	243.8	243.8
55°	697.4	613.4	523.5	439.6	365.7	307.7	265.8	235.8	219.8	217.8	219.8
57.5°	745.3	639.4	527.5	433.6	353.7	291.7	245.8	213.8	197.8	195.8	197.8
60°	703.4	617.4	509.5	417.6	343.7	279.7	231.8	199.8	183.8	181.8	181.8
62.5°	583.5	533.5	455.6	377.7	317.7	261.8	217.8	187.8	171.8	169.8	171.8
65°	517.5	473.6	405.6	343.7	291.7	243.8	205.8	179.8	163.9	163.9	163.9
67.5°	481.6	441.6	377.7	317.7	269.8	225.8	189.8	165.8	151.9	151.9	151.9
70°	439.6	399.6	341.7	287.7	243.8	205.8	173.8	149.9	137.9	135.9	137.9
72.5°	403.6	363.7	309.7	259.8	219.8	185.8	157.9	135.9	125.9	123.9	125.9
75°	363.7	325.7	273.8	229.8	195.8	165.8	141.9	121.9	113.9	111.9	111.9
77.5°	329.7	293.7	245.8	205.8	175.8	147.9	125.9	111.9	103.9	101.9	101.9
80°	299.7	265.8	219.8	183.8	155.9	131.9	113.9	99.9	91.9	91.9	91.9
82.5°	267.8	237.8	195.8	161.9	137.9	117.9	99.9	87.9	81.9	81.9	81.9
85°	241.8	211.8	171.8	143.9	119.9	101.9	87.9	77.9	71.9	71.9	71.9
87.5°	213.8	187.8	151.9	125.9	105.9	89.9	75.9	65.9	63.9	61.9	61.9
90°	185.8	161.9	129.9	107.9	89.9	75.9	63.9	55.9	54.0	52.0	52.0
92.5°	165.8	143.9	117.9	97.9	81.9	67.9	59.9	52.0	50.0	50.0	48.0
95°	143.9	125.9	103.9	87.9	73.9	63.9	55.9	50.0	48.0	48.0	46.0
97.5°	123.9	107.9	91.9	79.9	67.9	59.9	52.0	48.0	44.0	44.0	44.0
100°	103.9	91.9	79.9	67.9	61.9	54.0	48.0	44.0	42.0	40.0	40.0
102.5°	83.9	75.9	65.9	59.9	52.0	46.0	42.0	38.0	36.0	36.0	36.0
105°	71.9	65.9	59.9	54.0	48.0	42.0	38.0	34.0	32.0	32.0	32.0
107.5°	65.9	61.9	55.9	50.0	46.0	40.0	36.0	30.0	28.0	30.0	30.0
110°	63.9	59.9	54.0	50.0	44.0	40.0	36.0	28.0	26.0	28.0	28.0



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CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	63.9	59.9	55.9	50.0	46.0	40.0	36.0	28.0	26.0	26.0	26.0
115°	65.9	63.9	57.9	54.0	48.0	42.0	36.0	28.0	26.0	26.0	26.0
117.5°	73.9	69.9	63.9	57.9	52.0	44.0	38.0	28.0	26.0	26.0	26.0
120°	81.9	77.9	71.9	63.9	55.9	48.0	40.0	28.0	24.0	26.0	26.0
122.5°	95.9	89.9	81.9	71.9	61.9	52.0	40.0	30.0	22.0	26.0	26.0
125°	113.9	105.9	93.9	79.9	67.9	55.9	42.0	30.0	24.0	26.0	26.0
127.5°	133.9	123.9	107.9	89.9	73.9	57.9	44.0	30.0	24.0	24.0	26.0
130°	159.9	143.9	121.9	99.9	79.9	61.9	44.0	30.0	24.0	24.0	24.0
132.5°	181.8	161.9	133.9	107.9	83.9	63.9	44.0	30.0	22.0	22.0	22.0
135°	203.8	177.8	143.9	113.9	87.9	63.9	44.0	28.0	22.0	22.0	22.0
137.5°	221.8	187.8	151.9	115.9	87.9	61.9	42.0	26.0	20.0	20.0	20.0
140°	231.8	193.8	153.9	115.9	83.9	59.9	38.0	24.0	18.0	18.0	18.0
142.5°	231.8	191.8	151.9	111.9	79.9	55.9	34.0	20.0	16.0	16.0	16.0
145°	223.8	183.8	143.9	105.9	73.9	50.0	30.0	18.0	12.0	12.0	14.0
147.5°	209.8	169.8	131.9	95.9	65.9	42.0	26.0	14.0	10.0	10.0	10.0
150°	185.8	149.9	113.9	83.9	55.9	36.0	22.0	12.0	8.0	8.0	8.0
152.5°	155.9	123.9	95.9	69.9	46.0	28.0	16.0	10.0	6.0	6.0	6.0
155°	123.9	97.9	75.9	54.0	34.0	22.0	12.0	8.0	6.0	6.0	6.0
157.5°	91.9	73.9	55.9	40.0	26.0	16.0	10.0	6.0	4.0	4.0	4.0
160°	63.9	52.0	38.0	26.0	16.0	10.0	6.0	4.0	2.0	2.0	2.0
162.5°	42.0	32.0	24.0	16.0	10.0	6.0	4.0	2.0	2.0	2.0	2.0
165°	20.0	16.0	12.0	8.0	4.0	4.0	2.0	2.0	0.0	0.0	0.0
167.5°	6.0	4.0	2.0	2.0	2.0	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)