

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: P691455

Luminaire Tested: **CRTK2-C016-5TLD-U-T5R-7040-U0-DS-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-30)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C016-5TLD-U-T5R-7040-U0-DS-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE V ROUND OPTIC AND U0 SHIELD WITH HOUSE
SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4114 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U1 - G1

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

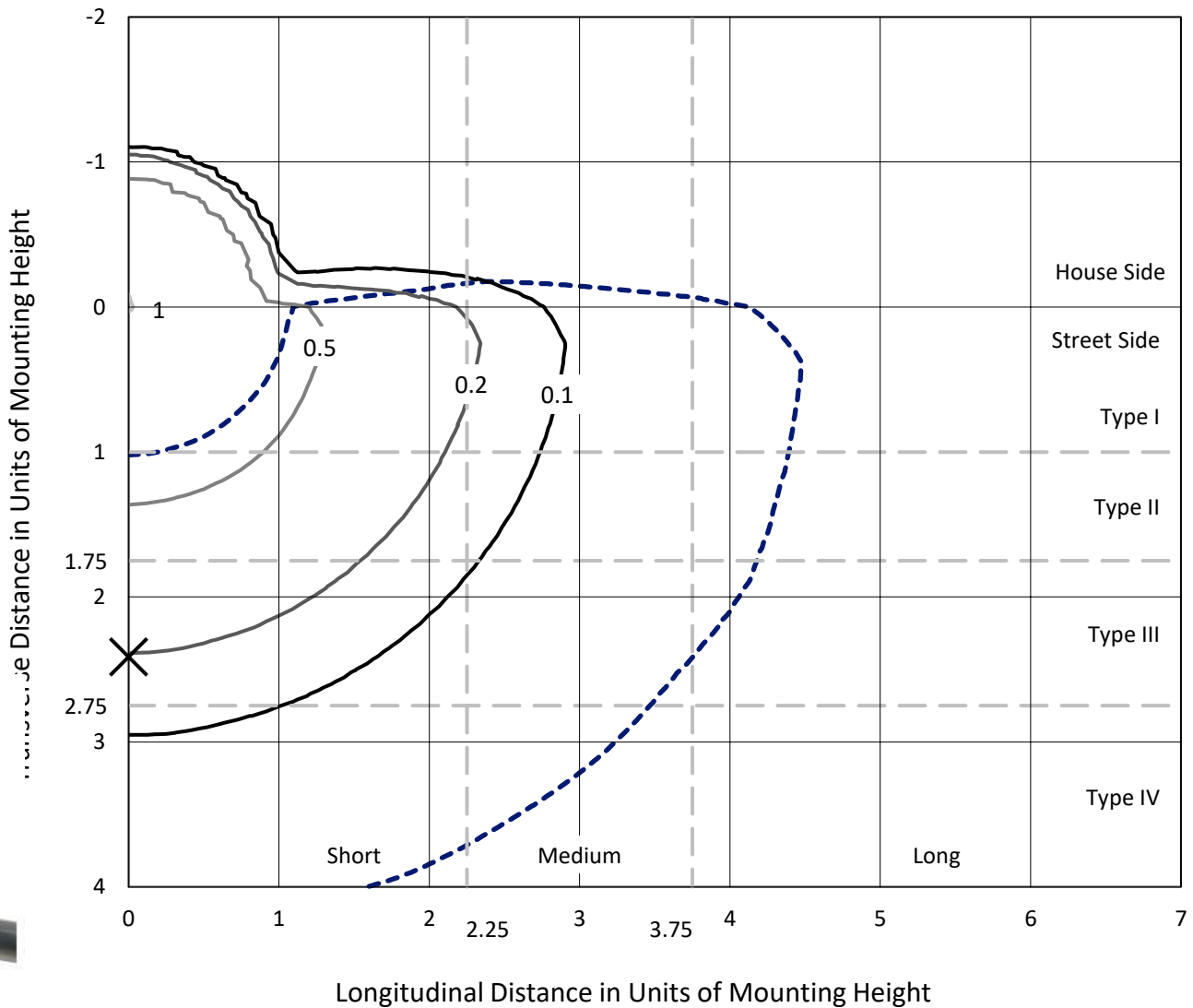


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

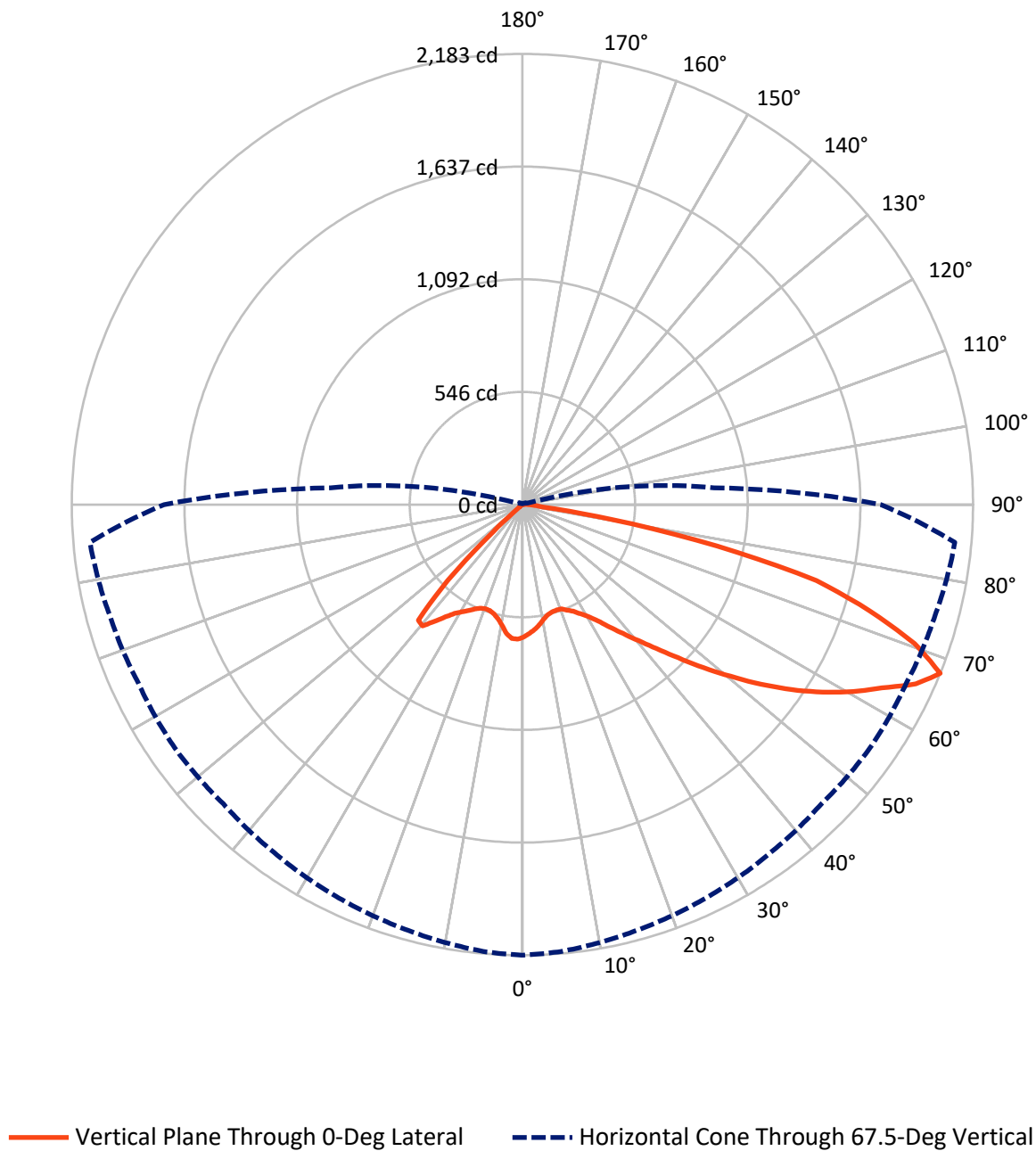


Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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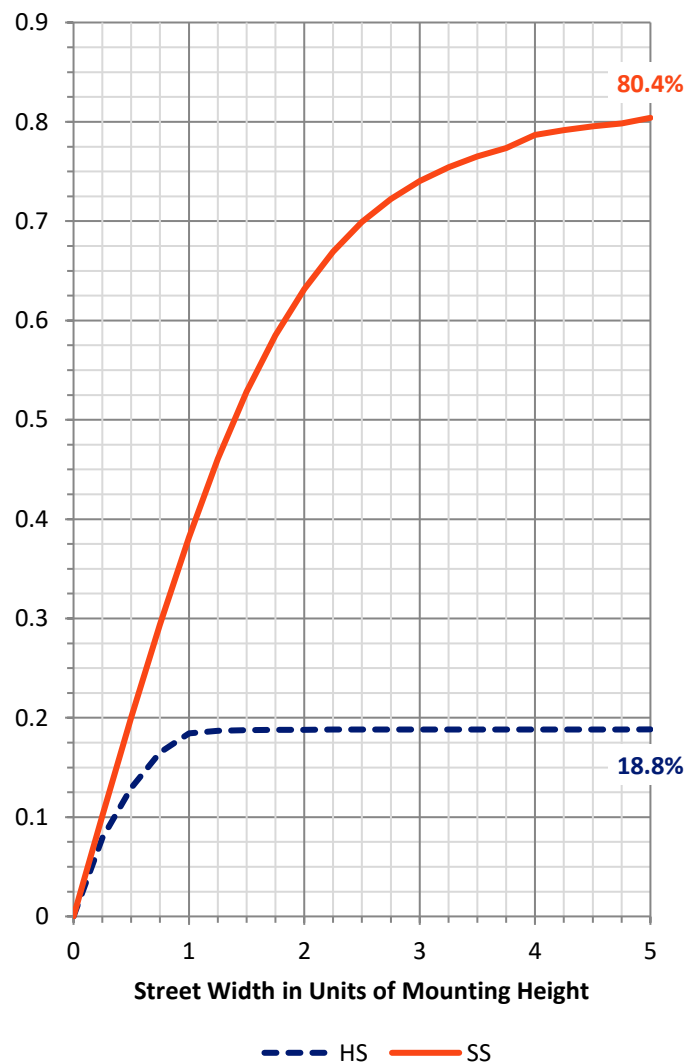
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	779.1	1.5	780.6
	% Fixture	18.9	0.0	19.0
Street Side	Lumens	3324.1	9.4	3333.4
	% Fixture	80.8	0.2	81.0
Total	Lumens	4103.2	10.9	4114.0
	% Fixture	99.7	0.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	1.4
10°-20°	151.0	3.7
20°-30°	259.0	6.3
30°-40°	437.9	10.6
40°-50°	584.3	14.2
50°-60°	741.9	18.0
60°-70°	1039.0	25.3
70°-80°	752.5	18.3
80°-90°	80.2	1.9
90°-100°	9.0	0.2
100°-110°	0.9	0.0
110°-120°	0.4	0.0
120°-130°	0.2	0.0
130°-140°	0.1	0.0
140°-150°	0.0	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.1	0.0
0°-90°	4103.2	99.7
0°-180°	4114.0	100.0

Coefficient of Utilization



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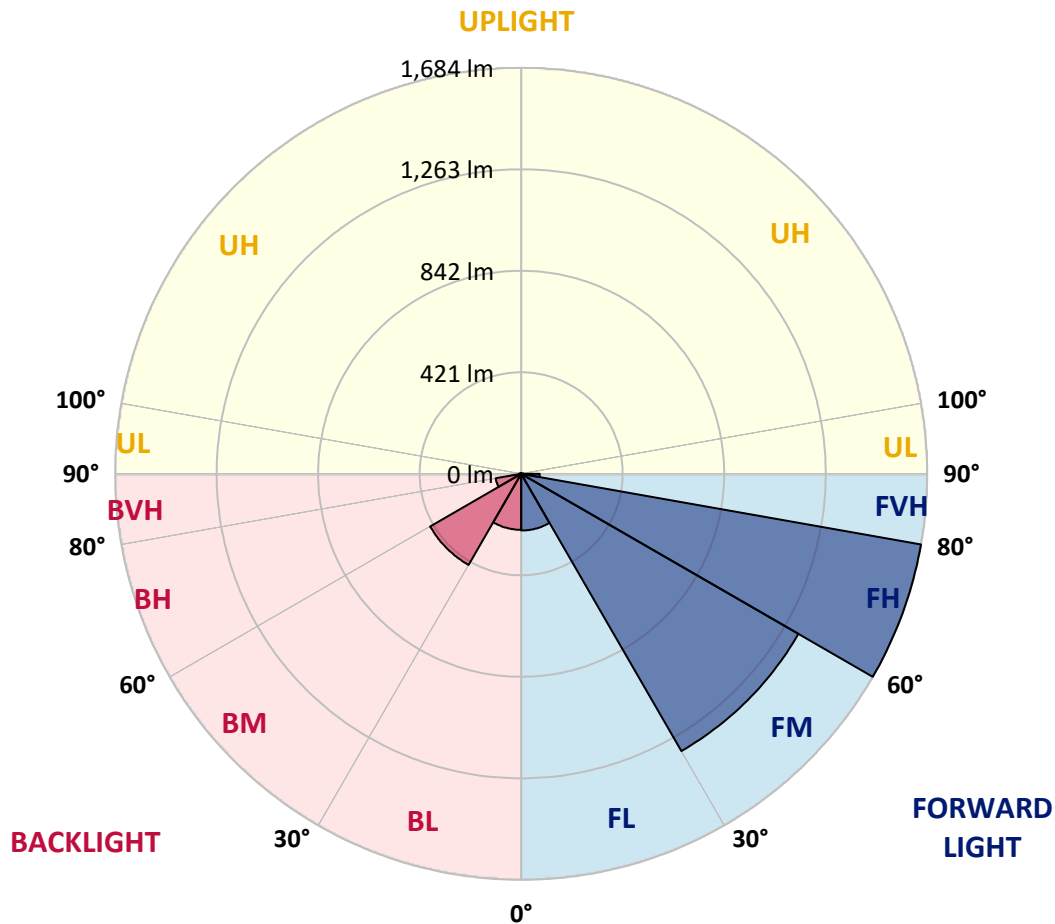
CATALOG NUMBER: CRTK2-C016-5TLD-U-T5R-7040-U0-DS-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	235.1	5.7			
FM	(30°-60°)	1327.9	32.3			
FH	(60°-80°)	1683.9	40.9			G1/1800
FVH	(80°-90°)	77.2	1.9			G1/100
BL	(0°-30°)	232.3	5.6	B1/500		
BM	(30°-60°)	436.3	10.6	B1/1000		
BH	(60°-80°)	107.6	2.6	B0/110		G0/110
BVH	(80°-90°)	3.0	0.1			G0/10
UL	(90°-100°)	9.0	0.2		U1/10	
UH	(100°-180°)	1.9	0.0		U1/10	

BUG Rating: B1-U1-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	641.9	641.9	641.9	641.9	641.9	641.9	641.9	641.9	641.9	641.9	641.9
2.5°	625.5	627.5	627.5	627.5	629.6	627.5	627.5	627.5	627.5	629.6	629.6
5°	609.0	609.0	609.0	611.1	611.1	609.0	607.0	609.0	609.0	611.1	611.1
7.5°	588.4	588.4	588.4	590.5	588.4	584.3	580.2	582.3	580.2	582.3	584.3
10°	563.7	565.8	565.8	563.7	561.7	555.5	549.3	551.4	549.3	551.4	551.4
12.5°	547.3	549.3	549.3	547.3	541.1	537.0	532.9	528.8	526.7	530.8	528.8
15°	539.1	541.1	541.1	539.1	534.9	530.8	522.6	520.5	516.4	514.4	516.4
17.5°	537.0	537.0	537.0	534.9	530.8	524.7	520.5	516.4	514.4	514.4	512.3
20°	539.1	543.2	541.1	539.1	534.9	530.8	524.7	518.5	518.5	518.5	516.4
22.5°	555.5	555.5	553.5	553.5	549.3	543.2	537.0	532.9	528.8	528.8	528.8
25°	572.0	574.0	574.0	572.0	565.8	557.6	555.5	549.3	547.3	545.2	543.2
27.5°	598.7	596.7	598.7	598.7	590.5	586.4	580.2	576.1	574.0	569.9	567.9
30°	629.6	629.6	629.6	629.6	623.4	615.2	611.1	604.9	598.7	598.7	594.6
32.5°	670.7	672.8	672.8	670.7	664.6	656.3	652.2	644.0	641.9	637.8	633.7
35°	728.3	728.3	728.3	724.2	716.0	709.8	705.7	699.5	697.5	691.3	681.0
37.5°	792.1	792.1	796.2	792.1	783.9	775.7	769.5	765.4	759.2	755.1	748.9
40°	866.2	866.2	868.3	862.1	853.8	849.7	843.6	835.3	831.2	829.2	816.8
42.5°	952.6	956.7	956.7	950.5	944.4	938.2	930.0	923.8	919.7	911.5	895.0
45°	1057.5	1055.5	1059.6	1053.4	1049.3	1047.3	1034.9	1020.5	1022.6	1004.0	985.5
47.5°	1181.0	1183.0	1181.0	1174.8	1170.7	1168.6	1156.3	1137.8	1129.5	1115.1	1080.2
50°	1306.5	1308.5	1306.5	1302.4	1306.5	1294.1	1279.7	1263.3	1261.2	1242.7	1189.2
52.5°	1444.3	1438.2	1436.1	1434.1	1429.9	1423.8	1409.4	1390.8	1392.9	1372.3	1288.0
55°	1582.2	1576.0	1565.7	1561.6	1557.5	1547.2	1534.9	1528.7	1526.6	1506.1	1392.9
57.5°	1713.9	1703.6	1689.2	1687.1	1680.9	1666.5	1660.4	1650.1	1650.1	1627.5	1469.0
60°	1839.4	1827.0	1810.6	1802.3	1792.1	1779.7	1777.7	1771.5	1773.5	1761.2	1551.3
62.5°	1954.6	1944.3	1923.7	1911.4	1894.9	1884.6	1886.7	1882.6	1890.8	1882.6	1623.3
65°	2094.5	2082.2	2057.5	2030.7	2008.1	1991.6	1985.5	1997.8	2032.8	2041.0	1720.0
67.5°	2183.0	2172.7	2135.6	2102.7	2071.9	2049.2	2055.4	2051.3	2069.8	2102.7	1736.5
70°	2016.3	2012.2	1975.2	1954.6	1932.0	1909.3	1911.4	1905.2	1919.6	1927.8	1592.5
72.5°	1759.1	1779.7	1732.4	1730.3	1715.9	1718.0	1695.4	1711.8	1701.5	1701.5	1409.4
75°	1471.1	1427.9	1413.5	1448.5	1427.9	1429.9	1425.8	1444.3	1442.3	1444.3	1226.2
77.5°	965.0	973.2	954.7	991.7	1010.2	1041.1	1055.5	1104.9	1086.3	1082.2	971.1
80°	432.1	442.4	444.4	479.4	502.0	532.9	522.6	557.6	534.9	497.9	475.3
82.5°	96.7	96.7	109.0	139.9	148.1	154.3	154.3	160.5	127.6	78.2	63.8
85°	65.8	63.8	86.4	117.3	123.4	119.3	115.2	107.0	74.1	22.6	18.5
87.5°	43.2	45.3	70.0	96.7	100.8	94.6	88.5	80.2	53.5	6.2	4.1
90°	28.8	32.9	53.5	74.1	74.1	70.0	63.8	53.5	32.9	2.1	2.1
92.5°	14.4	16.5	26.7	32.9	30.9	26.7	24.7	20.6	12.3	2.1	2.1
95°	8.2	8.2	12.3	12.3	12.3	10.3	10.3	8.2	4.1	2.1	2.1
97.5°	6.2	6.2	8.2	8.2	6.2	6.2	6.2	4.1	2.1	2.1	2.1
100°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	2.1	2.1	2.1	2.1
102.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
105°	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	2.1
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	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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CATALOG NUMBER: CRTK2-C016-5TLD-U-T5R-7040-U0-DS-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	2.1
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	2.1	2.1
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	2.1	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	2.1	2.1
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	0.0	2.1	2.1
175°	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1
177.5°	0.0	0.0	0.0	0.0	0.0	2.1	0.0	2.1	2.1	2.1	2.1
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°	180°
0°	641.9	641.9	641.9	641.9	641.9	641.9	641.9	641.9	641.9	641.9
2.5°	631.6	633.7	635.8	639.9	639.9	646.0	648.1	650.2	652.2	652.2
5°	615.2	617.2	623.4	627.5	633.7	637.8	644.0	646.0	648.1	650.2
7.5°	584.3	588.4	594.6	596.7	604.9	611.1	617.2	623.4	625.5	629.6
10°	553.5	555.5	557.6	563.7	567.9	576.1	584.3	588.4	592.6	592.6
12.5°	530.8	532.9	534.9	537.0	543.2	547.3	555.5	559.6	561.7	565.8
15°	516.4	516.4	520.5	520.5	524.7	530.8	534.9	541.1	543.2	547.3
17.5°	512.3	512.3	514.4	516.4	520.5	522.6	526.7	532.9	534.9	537.0
20°	514.4	516.4	516.4	518.5	522.6	524.7	528.8	530.8	532.9	534.9
22.5°	524.7	522.6	524.7	524.7	526.7	530.8	534.9	539.1	541.1	541.1
25°	539.1	537.0	537.0	541.1	543.2	545.2	551.4	553.5	555.5	555.5
27.5°	563.7	561.7	563.7	563.7	565.8	565.8	572.0	572.0	574.0	576.1
30°	588.4	582.3	582.3	582.3	584.3	588.4	590.5	594.6	596.7	596.7
32.5°	625.5	613.1	611.1	613.1	613.1	615.2	621.4	619.3	623.4	621.4
35°	672.8	660.4	656.3	656.3	656.3	656.3	662.5	658.4	662.5	660.4
37.5°	730.4	713.9	711.9	711.9	707.8	709.8	711.9	707.8	705.7	707.8
40°	792.1	763.3	761.3	763.3	763.3	763.3	763.3	761.3	759.2	761.3
42.5°	763.3	648.1	662.5	683.1	703.7	728.3	734.5	751.0	753.0	753.0
45°	666.6	374.5	395.0	425.9	438.2	446.5	469.1	504.1	514.4	516.4
47.5°	588.4	125.5	133.7	146.1	166.7	176.9	179.0	203.7	214.0	193.4
50°	582.3	28.8	20.6	20.6	22.6	18.5	18.5	20.6	20.6	20.6
52.5°	635.8	26.7	18.5	16.5	16.5	16.5	14.4	16.5	16.5	16.5
55°	691.3	26.7	18.5	16.5	16.5	16.5	14.4	14.4	14.4	14.4
57.5°	736.6	26.7	18.5	16.5	16.5	14.4	12.3	12.3	12.3	12.3
60°	790.1	26.7	18.5	16.5	16.5	12.3	10.3	10.3	10.3	10.3
62.5°	835.3	28.8	18.5	16.5	14.4	10.3	10.3	10.3	10.3	10.3
65°	901.2	28.8	18.5	14.4	10.3	8.2	8.2	8.2	8.2	8.2
67.5°	932.0	28.8	16.5	12.3	8.2	6.2	6.2	6.2	6.2	6.2
70°	839.4	22.6	12.3	8.2	6.2	6.2	6.2	6.2	6.2	6.2
72.5°	718.1	16.5	8.2	6.2	4.1	4.1	4.1	4.1	4.1	2.1
75°	572.0	10.3	4.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
77.5°	401.2	8.2	4.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
80°	166.7	6.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.7	4.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.2	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
90°	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: CRTK2-C016-5TLD-U-T5R-7040-U0-DS-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	2.1	2.1	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

(END OF REPORT)