

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: P691451

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

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-29)
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-DS-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE V ROUND OPTIC AND HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4208.1 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.08')
IES Classification: Type IV - Short
BUG Rating: B1 - U2 - 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



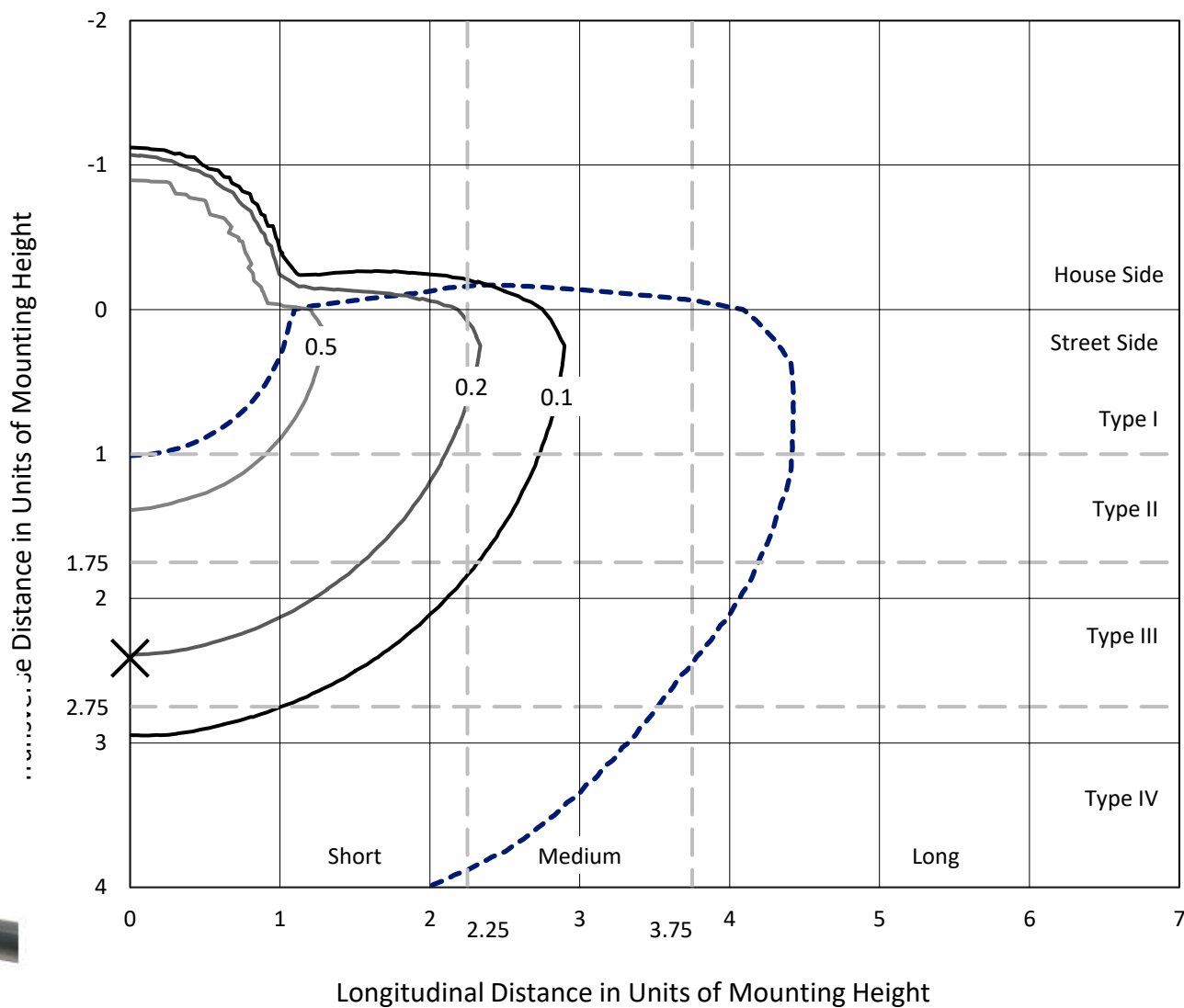
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

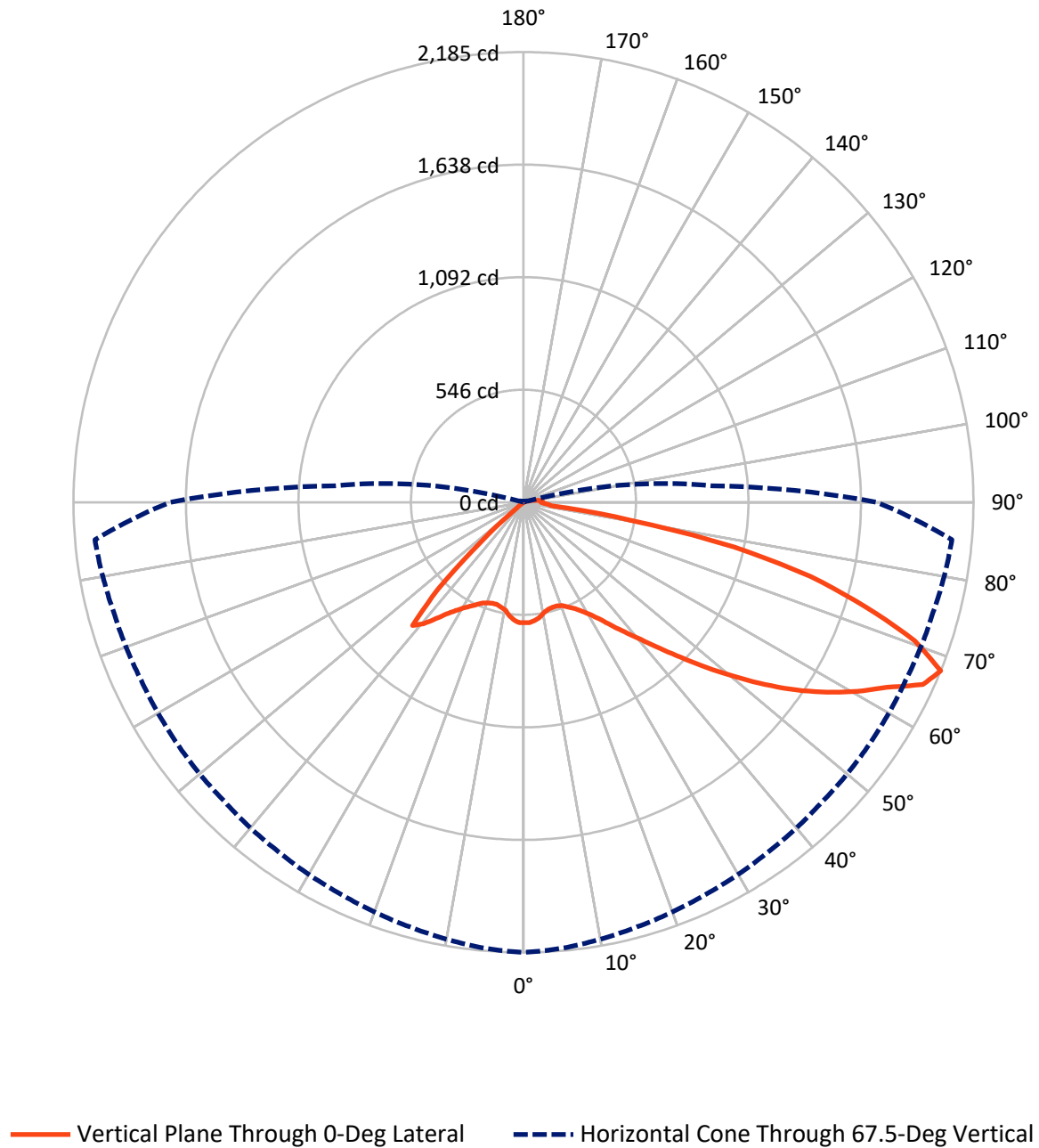


Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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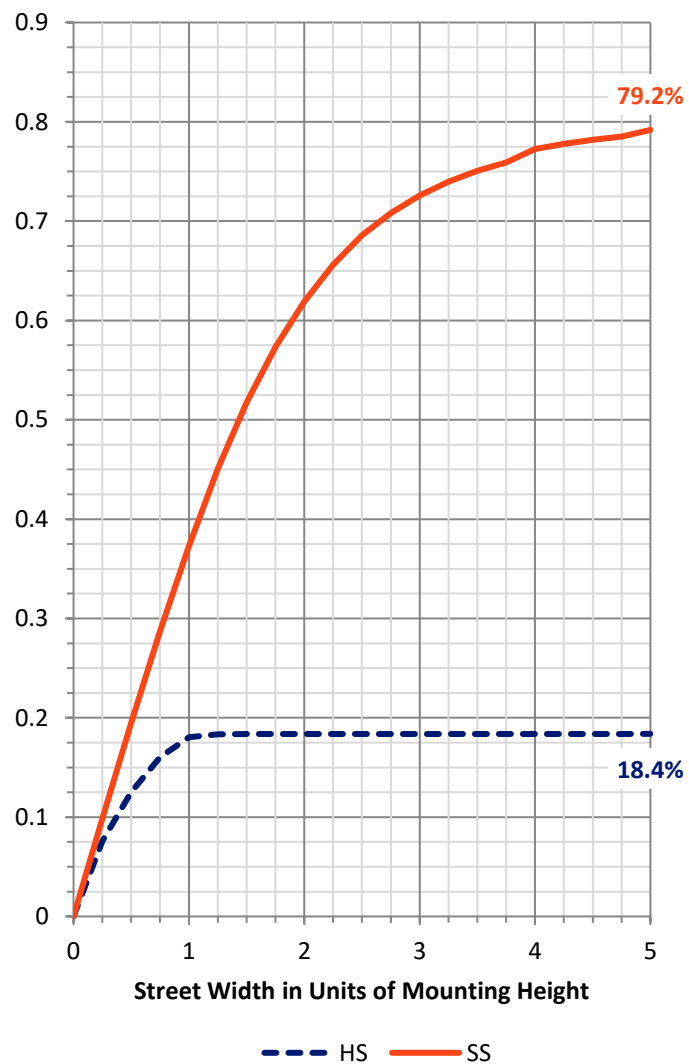
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	778.3	3.2	781.4
	% Fixture	18.5	0.1	18.6
Street Side	Lumens	3368.1	58.5	3426.6
	% Fixture	80.0	1.4	81.4
Total	Lumens	4146.4	61.6	4208.1
	% Fixture	98.5	1.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	1.3
10°-20°	145.4	3.5
20°-30°	256.1	6.1
30°-40°	437.7	10.4
40°-50°	601.5	14.3
50°-60°	743.4	17.7
60°-70°	1038.9	24.7
70°-80°	758.9	18.0
80°-90°	111.4	2.6
90°-100°	49.1	1.2
100°-110°	11.2	0.3
110°-120°	0.7	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°	0.0	0.0
0°-90°	4146.4	98.5
0°-180°	4208.1	100.0

Coefficient of Utilization



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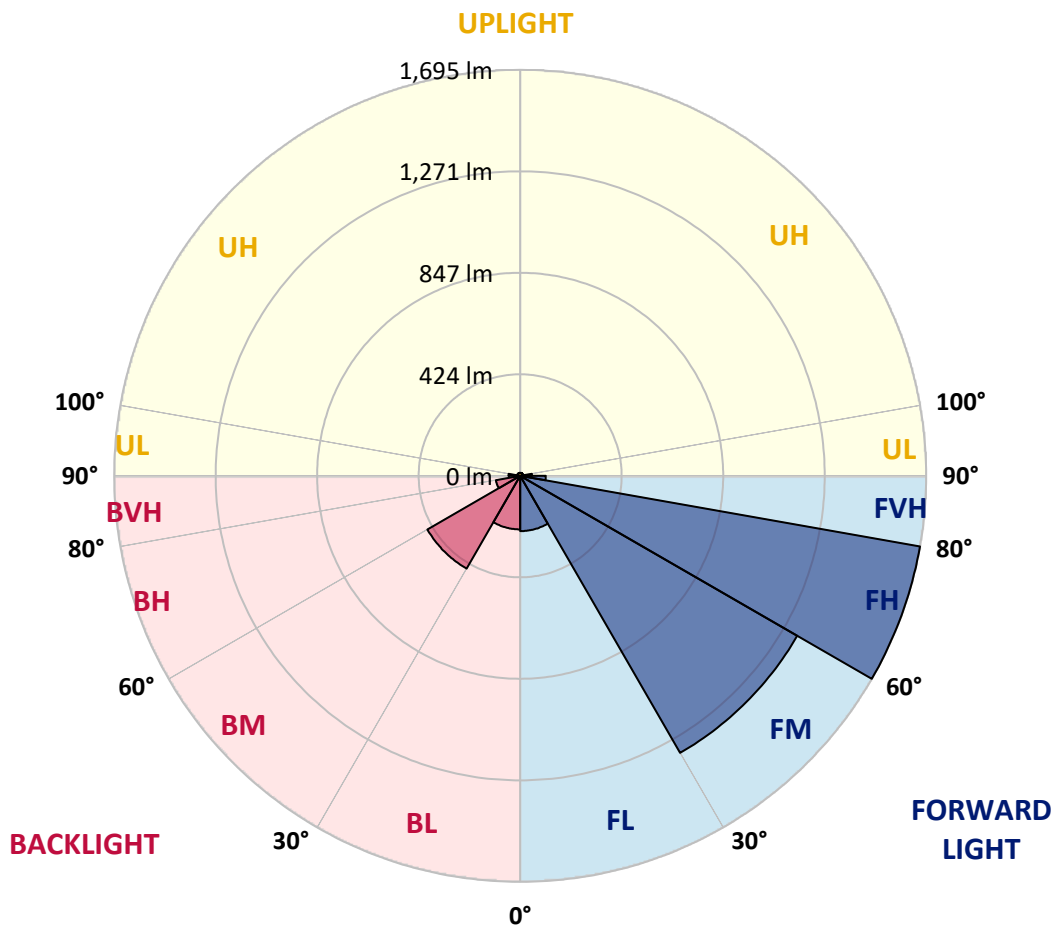
CATALOG NUMBER: CRTK2-C016-5TLD-U-T5R-7040-DS-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	230.8	5.5			
FM	(30°-60°)	1335.4	31.7			
FH	(60°-80°)	1694.8	40.3			G1/1800
FVH	(80°-90°)	107.1	2.5			G2/225
BL	(0°-30°)	223.8	5.3	B1/500		
BM	(30°-60°)	447.2	10.6	B1/1000		
BH	(60°-80°)	103.0	2.4	B0/110		G0/110
BVH	(80°-90°)	4.3	0.1			G0/10
UL	(90°-100°)	49.1	1.2		U2/50	
UH	(100°-180°)	12.5	0.3		U2/50	

BUG Rating: B1-U2-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2
2.5°	584.2	584.2	584.2	584.2	586.2	584.2	582.1	578.0	578.0	578.0	578.0
5°	576.0	576.0	578.0	578.0	576.0	573.9	569.8	569.8	567.7	567.7	567.7
7.5°	563.6	563.6	563.6	565.7	561.6	555.4	553.3	551.3	549.2	547.2	545.1
10°	545.1	545.1	545.1	543.1	538.9	532.8	528.7	524.5	524.5	522.5	520.4
12.5°	532.8	532.8	532.8	530.7	524.5	520.4	514.3	510.1	508.1	508.1	506.0
15°	528.7	528.7	528.7	526.6	520.4	516.3	510.1	506.0	501.9	499.9	497.8
17.5°	528.7	528.7	528.7	524.5	522.5	516.3	510.1	506.0	504.0	501.9	499.9
20°	534.8	536.9	534.8	532.8	526.6	522.5	516.3	510.1	508.1	508.1	506.0
22.5°	551.3	549.2	549.2	547.2	541.0	534.8	530.7	526.6	522.5	522.5	520.4
25°	569.8	571.8	571.8	567.7	563.6	557.5	551.3	545.1	543.1	541.0	538.9
27.5°	596.5	596.5	598.6	594.5	588.3	584.2	578.0	573.9	569.8	565.7	563.6
30°	629.4	631.5	631.5	627.4	621.2	613.0	608.9	602.7	596.5	596.5	590.4
32.5°	672.6	676.8	674.7	670.6	664.4	656.2	652.1	645.9	641.8	635.6	631.5
35°	732.3	734.4	732.3	728.2	717.9	709.7	705.6	701.4	697.3	689.1	680.9
37.5°	798.1	800.2	802.2	798.1	785.8	773.4	769.3	763.2	761.1	750.8	746.7
40°	874.2	878.3	876.3	870.1	859.8	847.5	845.4	839.3	833.1	826.9	816.6
42.5°	966.8	966.8	964.7	960.6	952.4	938.0	933.9	927.7	923.6	911.3	894.8
45°	1073.8	1075.8	1069.6	1063.5	1061.4	1049.1	1038.8	1032.6	1020.3	1005.9	987.4
47.5°	1199.2	1197.2	1189.0	1182.8	1180.7	1170.4	1162.2	1149.9	1133.4	1117.0	1082.0
50°	1328.8	1328.8	1314.4	1308.3	1312.4	1298.0	1287.7	1273.3	1256.8	1240.4	1189.0
52.5°	1468.7	1462.5	1448.1	1450.2	1444.0	1429.6	1417.3	1407.0	1390.5	1376.1	1293.9
55°	1608.6	1600.4	1577.7	1579.8	1569.5	1553.0	1544.8	1532.5	1528.4	1511.9	1394.7
57.5°	1738.2	1727.9	1703.2	1701.1	1692.9	1674.4	1670.3	1655.9	1645.6	1637.4	1470.8
60°	1863.7	1853.4	1830.7	1822.5	1806.1	1787.5	1789.6	1781.4	1775.2	1767.0	1555.1
62.5°	1976.8	1964.4	1943.9	1927.4	1904.8	1888.3	1890.4	1886.3	1890.4	1888.3	1627.1
65°	2131.1	2118.7	2087.9	2059.1	2026.2	2001.5	1999.4	2005.6	2048.8	2052.9	1738.2
67.5°	2184.5	2172.2	2133.1	2098.2	2071.4	2052.9	2048.8	2046.7	2059.1	2087.9	1715.5
70°	2015.9	2007.6	1970.6	1945.9	1919.2	1906.9	1894.5	1900.7	1913.0	1911.0	1573.6
72.5°	1740.2	1785.5	1738.2	1715.5	1709.4	1676.5	1684.7	1678.5	1686.8	1684.7	1398.8
75°	1439.9	1427.6	1417.3	1456.4	1427.6	1402.9	1417.3	1431.7	1446.1	1429.6	1226.0
77.5°	1047.0	1055.2	1051.1	1065.5	1092.3	1079.9	1071.7	1106.7	1112.8	1057.3	952.4
80°	526.6	559.5	569.8	594.5	608.9	582.1	559.5	608.9	600.6	536.9	483.4
82.5°	137.8	139.9	160.4	189.2	193.4	189.2	193.4	189.2	164.6	104.9	88.5
85°	115.2	115.2	141.9	172.8	179.0	170.7	170.7	160.4	127.5	65.8	53.5
87.5°	94.6	98.7	127.5	156.3	160.4	152.2	150.2	137.8	111.1	57.6	45.3
90°	84.3	88.5	115.2	139.9	141.9	133.7	131.6	123.4	100.8	57.6	45.3
92.5°	92.6	94.6	113.1	127.5	127.5	121.4	119.3	113.1	98.7	72.0	55.5
95°	82.3	84.3	92.6	98.7	96.7	90.5	94.6	88.5	82.3	67.9	51.4
97.5°	67.9	69.9	72.0	72.0	69.9	65.8	69.9	67.9	63.8	55.5	41.1
100°	51.4	51.4	51.4	53.5	51.4	49.4	51.4	47.3	45.3	39.1	28.8
102.5°	35.0	35.0	35.0	35.0	35.0	35.0	35.0	30.9	28.8	24.7	16.5
105°	20.6	20.6	18.5	20.6	20.6	18.5	18.5	16.5	12.3	10.3	6.2
107.5°	8.2	8.2	6.2	6.2	6.2	6.2	4.1	2.1	2.1	2.1	2.1
110°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0

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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	2.1
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	2.1
135°	0.0	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	0.0
140°	0.0	0.0	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	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	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0
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	0.0	0.0	2.1	2.1	2.1
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	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°	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2
2.5°	578.0	578.0	578.0	578.0	578.0	578.0	580.1	582.1	584.2	584.2
5°	567.7	567.7	567.7	565.7	567.7	569.8	571.8	571.8	573.9	573.9
7.5°	547.2	545.1	545.1	545.1	547.2	551.3	551.3	553.3	555.4	555.4
10°	520.4	520.4	520.4	520.4	522.5	526.6	526.6	530.7	530.7	530.7
12.5°	506.0	506.0	504.0	501.9	506.0	506.0	512.2	514.3	516.3	520.4
15°	497.8	495.7	497.8	497.8	499.9	501.9	504.0	508.1	510.1	512.2
17.5°	497.8	497.8	497.8	499.9	501.9	501.9	504.0	508.1	510.1	512.2
20°	506.0	506.0	504.0	504.0	506.0	506.0	510.1	514.3	516.3	518.4
22.5°	518.4	516.3	516.3	514.3	516.3	518.4	522.5	526.6	526.6	526.6
25°	534.8	532.8	532.8	532.8	536.9	536.9	541.0	545.1	545.1	545.1
27.5°	561.6	557.5	555.4	555.4	555.4	557.5	561.6	563.6	565.7	565.7
30°	584.2	580.1	578.0	576.0	578.0	580.1	584.2	588.3	588.3	588.3
32.5°	625.3	615.0	608.9	610.9	610.9	613.0	617.1	617.1	619.2	619.2
35°	672.6	662.4	652.1	654.1	654.1	656.2	656.2	656.2	660.3	656.2
37.5°	732.3	715.8	707.6	709.7	705.6	705.6	705.6	705.6	703.5	707.6
40°	796.1	771.4	763.2	765.2	763.2	761.1	761.1	763.2	761.1	763.2
42.5°	785.8	682.9	707.6	736.4	757.0	771.4	787.8	796.1	796.1	804.3
45°	687.0	405.2	434.0	473.1	506.0	541.0	557.5	569.8	578.0	594.5
47.5°	596.5	146.0	166.6	193.4	228.3	228.3	257.1	269.5	273.6	288.0
50°	580.1	22.6	18.5	20.6	22.6	24.7	26.7	32.9	32.9	41.1
52.5°	631.5	20.6	12.3	8.2	8.2	6.2	4.1	4.1	4.1	6.2
55°	689.1	22.6	12.3	8.2	6.2	6.2	2.1	2.1	2.1	2.1
57.5°	738.5	20.6	10.3	8.2	6.2	4.1	0.0	0.0	0.0	0.0
60°	792.0	22.6	12.3	8.2	6.2	4.1	0.0	0.0	0.0	0.0
62.5°	839.3	22.6	12.3	8.2	6.2	2.1	0.0	0.0	0.0	0.0
65°	907.1	24.7	12.3	8.2	4.1	0.0	0.0	0.0	0.0	0.0
67.5°	919.5	24.7	12.3	6.2	2.1	0.0	0.0	0.0	0.0	0.0
70°	820.7	20.6	8.2	4.1	2.1	0.0	0.0	0.0	0.0	0.0
72.5°	705.6	12.3	6.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	567.7	10.3	4.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	380.5	8.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	170.7	6.2	2.1	2.1	0.0	0.0	2.1	2.1	0.0	0.0
82.5°	37.0	4.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.7	4.1	2.1	2.1	0.0	0.0	2.1	2.1	0.0	0.0
87.5°	22.6	2.1	2.1	2.1	0.0	0.0	0.0	2.1	0.0	0.0
90°	22.6	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	26.7	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	24.7	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	18.5	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	12.3	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	6.2	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-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	0.0	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°	0.0	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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	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°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	2.1	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°	2.1	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	2.1	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	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	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
172.5°	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	2.1	0.0	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)