

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: P691396

Luminaire Tested: **CRTK2-C016-5TLD-U-T2-7050-HSS-CRTK2**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691396  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CRTK2-C016-5TLD-U-T2-7050-HSS-CRTK2  
Description: CARETAKER AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K LED WITH TYPE II OPTIC AND HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5633 lumens  
Efficiency: N/A  
Efficacy: 131.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.08')  
IES Classification: Type II - Short  
BUG Rating: B1 - U2 - G2

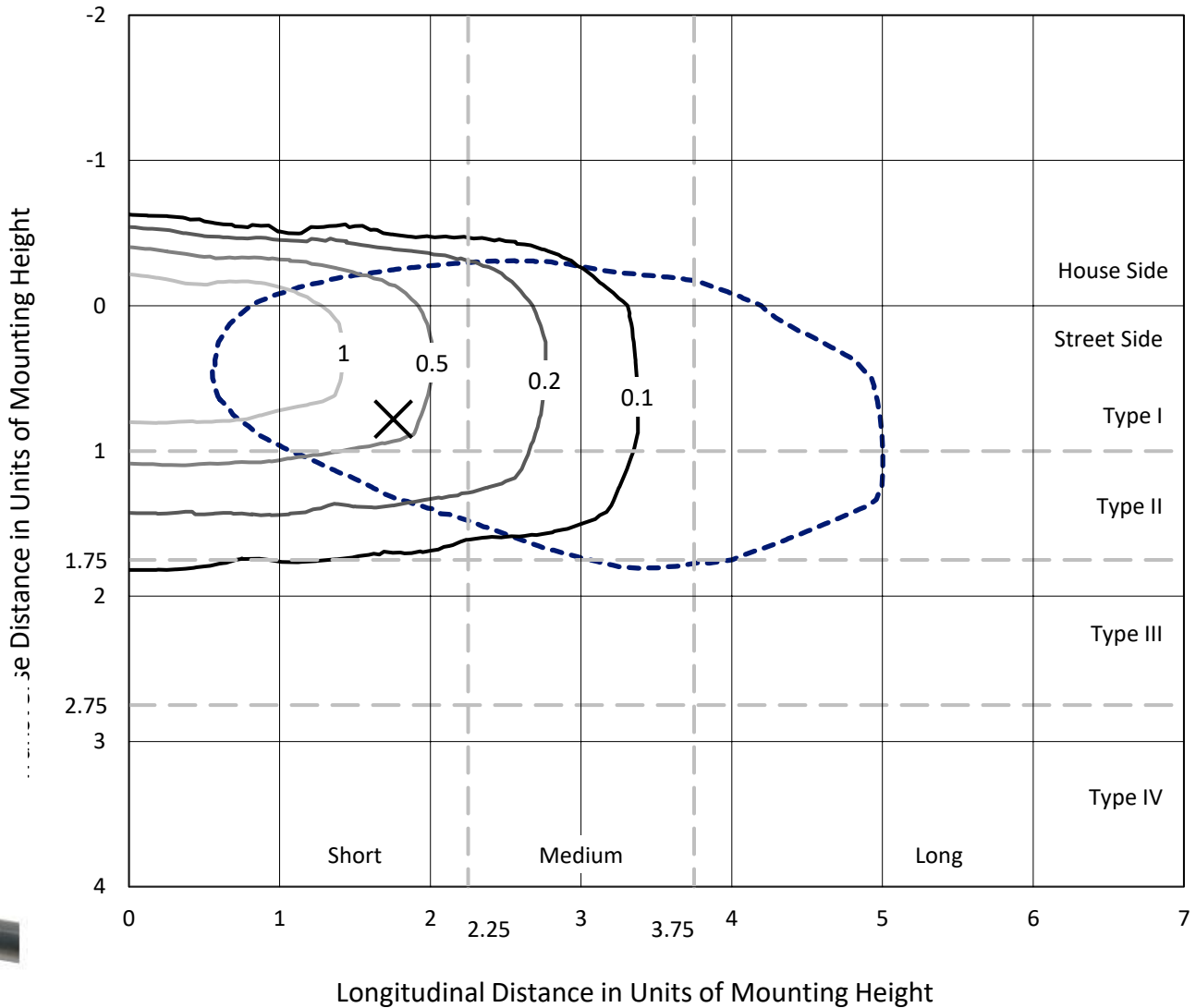
Input Watts (W): 42.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

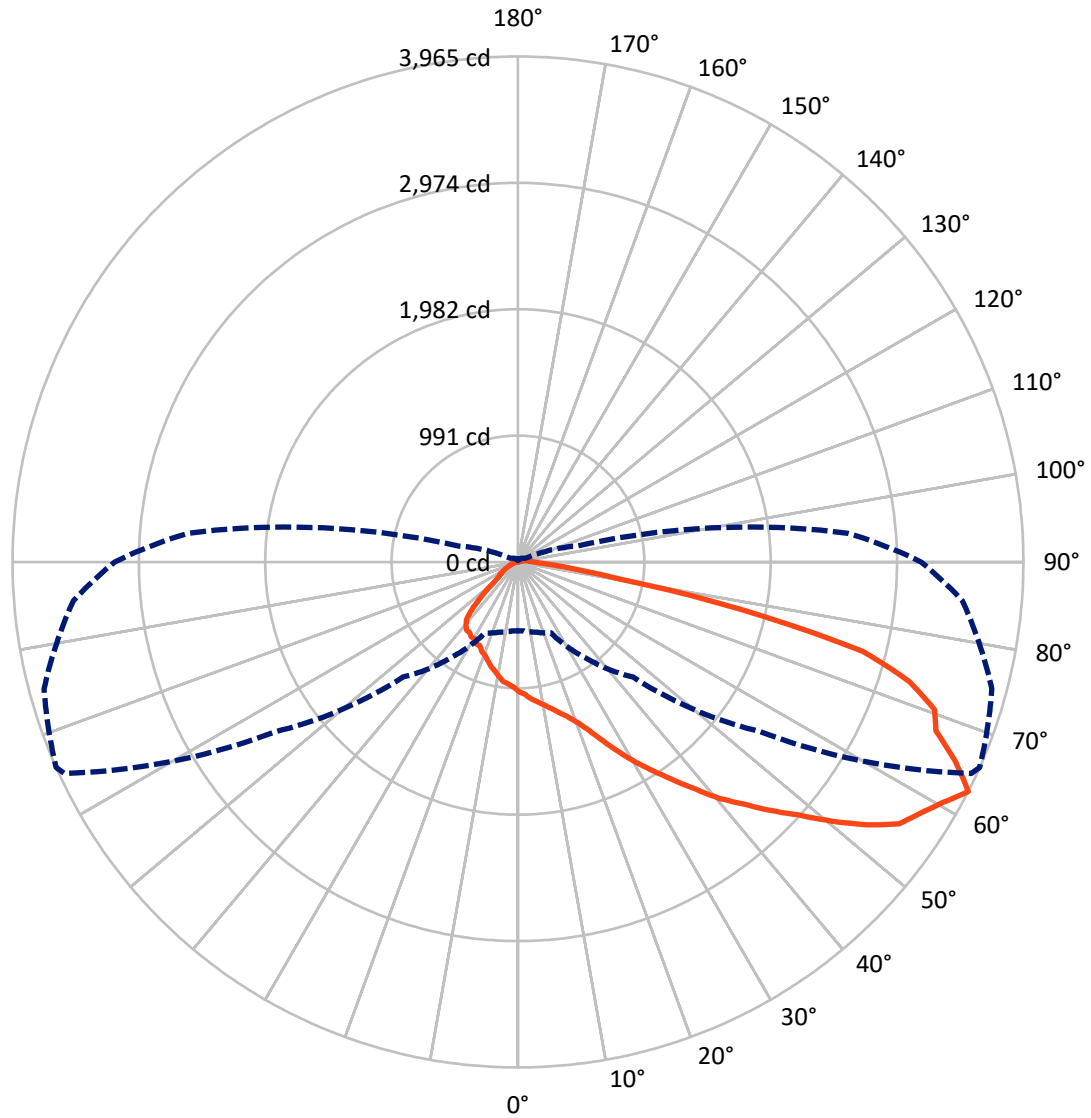
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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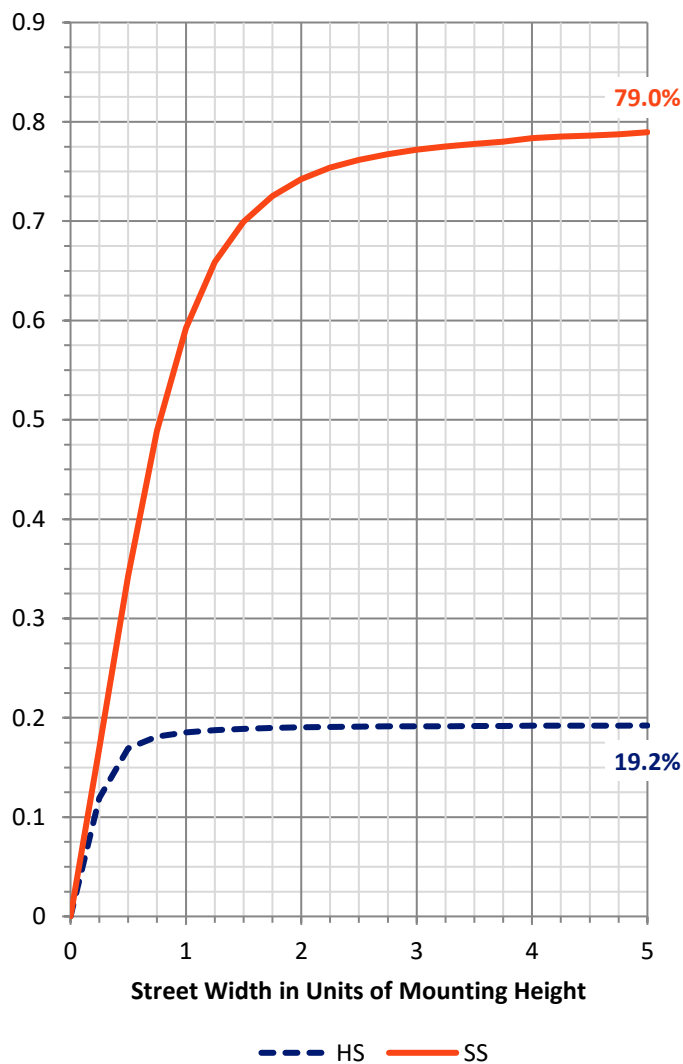
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1098.3	15.5	1113.8
	% Fixture	19.5	0.3	19.8
<b>Street Side</b>	Lumens	4476.3	42.9	4519.3
	% Fixture	79.5	0.8	80.2
<b>Total</b>	Lumens	5574.6	58.5	5633.0
	% Fixture	99.0	1.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.7	1.7
10°-20°	283.4	5.0
20°-30°	476.9	8.5
30°-40°	709.2	12.6
40°-50°	938.4	16.7
50°-60°	1092.6	19.4
60°-70°	1090.7	19.4
70°-80°	732.0	13.0
80°-90°	154.7	2.7
90°-100°	47.1	0.8
100°-110°	8.2	0.1
110°-120°	0.6	0.0
120°-130°	0.7	0.0
130°-140°	0.7	0.0
140°-150°	0.5	0.0
150°-160°	0.4	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-90°	5574.6	99.0
0°-180°	5633.0	100.0

**Coefficient of Utilization**



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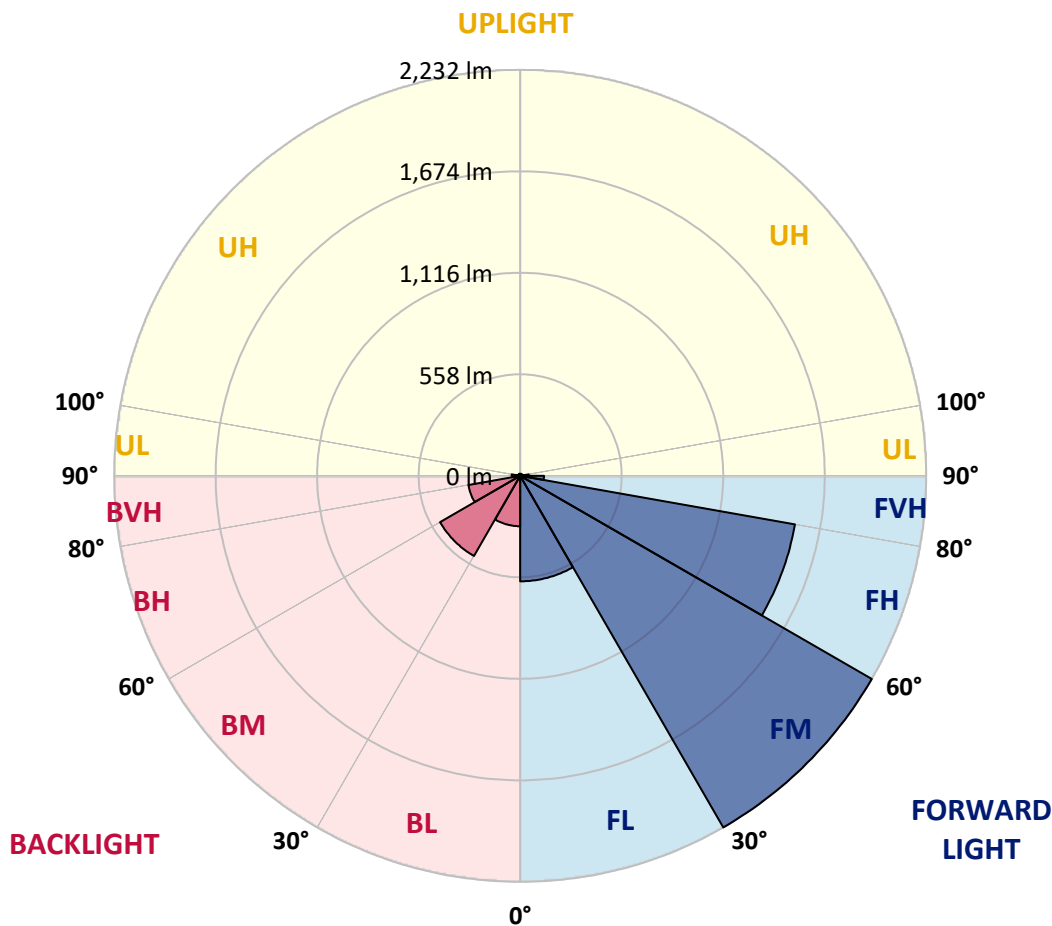
CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-7050-HSS-CRTK2

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	579.9	10.3			
FM (30°-60°)	2231.6	39.6			
FH (60°-80°)	1533.9	27.2			G1/1800
FVH (80°-90°)	130.9	2.3			G2/225
BL (0°-30°)	277.1	4.9	B1/500		
BM (30°-60°)	508.6	9.0	B1/1000		
BH (60°-80°)	288.8	5.1	B1/500		G1/500
BVH (80°-90°)	23.8	0.4			G1/100
UL (90°-100°)	47.1	0.8		U2/50	
UH (100°-180°)	11.4	0.2		U2/50	

**BUG Rating: B1-U2-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7
2.5°	1086.4	1080.1	1082.2	1071.8	1061.4	1055.2	1048.9	1038.5	1038.5	1030.2	1019.8
5°	1163.4	1165.5	1163.4	1150.9	1138.4	1119.7	1096.8	1078.1	1078.1	1059.3	1034.4
7.5°	1215.4	1213.3	1213.3	1198.8	1190.5	1180.0	1153.0	1111.4	1109.3	1084.3	1053.1
10°	1236.2	1238.3	1246.6	1225.8	1217.5	1202.9	1188.4	1146.7	1142.6	1101.0	1051.0
12.5°	1282.0	1284.1	1279.9	1263.3	1252.9	1242.5	1219.6	1184.2	1180.0	1134.3	1065.6
15°	1336.1	1336.1	1329.9	1313.2	1307.0	1292.4	1265.4	1232.1	1227.9	1175.9	1092.6
17.5°	1365.3	1369.4	1369.4	1346.5	1348.6	1342.4	1327.8	1284.1	1277.9	1230.0	1130.1
20°	1379.8	1381.9	1386.1	1386.1	1384.0	1381.9	1390.2	1350.7	1346.5	1290.3	1173.8
22.5°	1421.5	1425.6	1436.0	1429.8	1436.0	1444.4	1446.4	1444.4	1438.1	1377.8	1246.6
25°	1440.2	1452.7	1467.3	1486.0	1504.7	1517.2	1546.3	1560.9	1556.7	1498.5	1361.1
27.5°	1419.4	1431.9	1483.9	1519.3	1577.6	1612.9	1667.0	1689.9	1687.9	1640.0	1479.7
30°	1454.8	1458.9	1481.8	1531.8	1606.7	1704.5	1779.4	1814.8	1823.1	1779.4	1604.6
32.5°	1402.7	1417.3	1481.8	1575.5	1687.9	1791.9	1864.8	1943.8	1954.3	1935.5	1769.0
35°	1398.6	1409.0	1444.4	1546.3	1689.9	1883.5	1983.4	2091.6	2099.9	2106.2	1935.5
37.5°	1340.3	1354.9	1425.6	1554.7	1752.4	1943.8	2083.3	2239.4	2260.2	2285.2	2075.0
40°	1275.8	1286.2	1346.5	1483.9	1737.8	2014.6	2179.0	2418.4	2439.2	2470.4	2260.2
42.5°	1180.0	1202.9	1304.9	1452.7	1729.5	2035.4	2274.8	2576.5	2595.3	2639.0	2416.3
45°	1094.7	1105.1	1184.2	1346.5	1662.9	2072.9	2355.9	2761.8	2780.5	2801.3	2539.1
47.5°	1028.1	1040.6	1115.5	1261.2	1596.3	2064.6	2430.9	2944.9	2965.7	3013.6	2691.0
50°	815.8	847.1	1036.4	1178.0	1486.0	2047.9	2495.4	3148.9	3196.7	3215.5	2849.2
52.5°	701.4	711.8	809.6	1103.0	1377.8	1987.6	2551.6	3371.6	3425.7	3390.3	3061.5
55°	653.5	659.7	707.6	955.3	1279.9	1864.8	2597.3	3585.9	3625.5	3513.1	3217.5
57.5°	618.1	628.5	649.3	774.2	1165.5	1658.7	2599.4	3704.6	3719.1	3615.1	3292.5
60°	572.3	576.5	620.2	674.3	1036.4	1444.4	2528.7	3764.9	3829.4	3733.7	3444.4
62.5°	539.0	543.2	570.3	614.0	913.7	1275.8	2320.5	3925.2	3964.7	3848.2	3500.6
65°	497.4	503.7	526.5	570.3	828.3	1173.8	2216.5	3883.5	3769.1	3821.1	3565.1
67.5°	453.7	457.9	482.8	516.1	705.5	1076.0	1958.4	3619.2	3536.0	3685.8	3392.4
70°	407.9	412.1	435.0	457.9	580.7	955.3	1631.7	3394.5	3465.2	3473.5	3230.0
72.5°	360.0	364.2	385.0	403.8	480.8	803.3	1296.6	3169.7	3213.4	3086.4	2853.3
75°	312.2	314.3	330.9	349.6	399.6	647.3	928.2	2628.6	2795.1	2949.1	2462.1
77.5°	251.8	256.0	272.6	278.9	320.5	522.4	601.5	1563.0	1781.5	2580.7	2210.2
80°	185.2	187.3	204.0	201.9	239.3	380.9	378.8	743.0	799.2	1594.2	1623.3
82.5°	122.8	127.0	141.5	137.4	162.3	231.0	237.3	399.6	426.6	618.1	711.8
85°	97.8	99.9	108.2	99.9	108.2	116.5	131.1	241.4	245.6	366.3	364.2
87.5°	79.1	81.2	89.5	83.2	85.3	89.5	104.1	154.0	158.2	231.0	239.3
90°	62.4	64.5	74.9	68.7	68.7	74.9	87.4	114.5	120.7	181.1	195.6
92.5°	41.6	41.6	47.9	45.8	45.8	54.1	77.0	85.3	91.6	168.6	176.9
95°	31.2	31.2	33.3	33.3	33.3	39.5	58.3	81.2	89.5	164.4	160.3
97.5°	20.8	20.8	22.9	22.9	22.9	25.0	33.3	66.6	74.9	133.2	131.1
100°	14.6	14.6	14.6	12.5	12.5	12.5	18.7	43.7	49.9	85.3	85.3
102.5°	10.4	8.3	8.3	8.3	6.2	6.2	8.3	20.8	22.9	45.8	43.7
105°	2.1	2.1	4.2	4.2	4.2	2.1	2.1	8.3	8.3	18.7	18.7
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
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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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.0
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	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	2.1
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
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	2.1
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
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	0.0	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	2.1
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
167.5°	0.0	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	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7
2.5°	1013.5	1007.3	992.7	980.2	969.8	959.4	942.8	936.5	932.4	938.6	938.6
5°	1019.8	1003.1	978.2	957.4	938.6	915.7	890.8	876.2	863.7	869.9	869.9
7.5°	1030.2	1007.3	976.1	940.7	892.8	853.3	822.1	803.3	792.9	799.2	803.3
10°	1024.0	999.0	957.4	903.2	847.1	805.4	765.9	736.7	726.3	722.2	726.3
12.5°	1030.2	1001.1	930.3	865.8	811.7	745.1	697.2	666.0	653.5	653.5	653.5
15°	1051.0	1007.3	913.7	838.7	755.5	691.0	641.0	607.7	603.6	589.0	589.0
17.5°	1080.1	1013.5	907.4	797.1	705.5	638.9	580.7	547.4	537.0	539.0	539.0
20°	1109.3	1026.0	894.9	761.7	659.7	580.7	520.3	489.1	464.1	455.8	459.9
22.5°	1159.2	1061.4	884.5	743.0	607.7	532.8	466.2	414.2	372.5	360.0	353.8
25°	1232.1	1117.6	899.1	699.3	576.5	478.7	399.6	326.7	276.8	264.3	262.2
27.5°	1365.3	1205.0	915.7	699.3	526.5	430.8	318.4	241.4	201.9	189.4	193.6
30°	1490.1	1323.6	963.6	661.8	505.7	345.5	237.3	181.1	145.7	131.1	135.3
32.5°	1594.2	1436.0	1030.2	653.5	445.4	256.0	172.7	127.0	102.0	93.7	95.7
35°	1744.1	1531.8	1082.2	624.4	366.3	187.3	120.7	89.5	79.1	74.9	74.9
37.5°	1887.7	1648.3	1134.3	618.1	270.6	137.4	81.2	72.8	70.8	64.5	64.5
40°	2025.0	1766.9	1157.2	582.7	191.5	89.5	68.7	66.6	64.5	58.3	58.3
42.5°	2193.6	1881.4	1178.0	537.0	133.2	66.6	60.4	62.4	60.4	54.1	52.0
45°	2322.6	1958.4	1184.2	420.4	85.3	62.4	56.2	58.3	56.2	49.9	49.9
47.5°	2430.9	2062.5	1159.2	287.2	70.8	58.3	52.0	54.1	52.0	47.9	45.8
50°	2541.2	2158.2	1136.3	154.0	66.6	56.2	49.9	45.8	47.9	43.7	41.6
52.5°	2691.0	2229.0	1076.0	93.7	62.4	52.0	45.8	41.6	41.6	37.5	39.5
55°	2897.0	2403.8	963.6	87.4	60.4	49.9	43.7	37.5	37.5	33.3	33.3
57.5°	2988.6	2472.5	782.5	79.1	58.3	49.9	39.5	33.3	29.1	27.1	25.0
60°	3101.0	2574.5	616.0	72.8	54.1	47.9	35.4	29.1	22.9	20.8	20.8
62.5°	3163.4	2595.3	480.8	66.6	52.0	41.6	31.2	22.9	18.7	14.6	14.6
65°	3194.7	2580.7	320.5	60.4	47.9	39.5	27.1	18.7	12.5	10.4	10.4
67.5°	3076.0	2503.7	185.2	56.2	45.8	35.4	22.9	14.6	10.4	8.3	6.2
70°	2874.1	2278.9	116.5	49.9	43.7	31.2	20.8	12.5	8.3	6.2	4.2
72.5°	2636.9	1860.6	85.3	45.8	41.6	27.1	16.6	10.4	6.2	4.2	4.2
75°	2408.0	1621.3	72.8	39.5	35.4	22.9	14.6	8.3	6.2	4.2	2.1
77.5°	1723.2	1105.1	64.5	35.4	31.2	18.7	10.4	8.3	4.2	2.1	2.1
80°	1223.8	649.3	58.3	29.1	25.0	14.6	10.4	6.2	4.2	2.1	2.1
82.5°	586.9	337.2	56.2	25.0	18.7	12.5	8.3	6.2	4.2	2.1	2.1
85°	266.4	143.6	41.6	22.9	16.6	12.5	8.3	6.2	4.2	4.2	2.1
87.5°	162.3	74.9	33.3	18.7	12.5	10.4	6.2	4.2	4.2	4.2	4.2
90°	151.9	97.8	25.0	14.6	10.4	8.3	6.2	2.1	0.0	0.0	0.0
92.5°	145.7	112.4	18.7	10.4	6.2	6.2	2.1	0.0	0.0	0.0	0.0
95°	137.4	106.1	20.8	6.2	10.4	4.2	2.1	0.0	0.0	0.0	0.0
97.5°	108.2	83.2	22.9	6.2	52.0	4.2	2.1	0.0	0.0	0.0	0.0
100°	68.7	52.0	16.6	6.2	62.4	4.2	0.0	0.0	0.0	0.0	0.0
102.5°	39.5	29.1	8.3	6.2	18.7	2.1	0.0	0.0	0.0	0.0	0.0
105°	16.6	14.6	4.2	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
107.5°	4.2	4.2	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
110°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P691396  
 CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-7050-HSS-CRTK2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
115°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
117.5°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
120°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
122.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
125°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
127.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
130°	2.1	2.1	2.1	4.2	2.1	2.1	2.1	0.0	0.0	0.0	0.0
132.5°	2.1	2.1	2.1	4.2	2.1	2.1	2.1	0.0	0.0	0.0	0.0
135°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
137.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
140°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
142.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
145°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
147.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
150°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
152.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
155°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
157.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
160°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
162.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
165°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
167.5°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
170°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
172.5°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
175°	0.0	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	2.1	2.1	2.1	2.1	2.1	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)