

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: P691386

Luminaire Tested: **CRTK2-C016-5TLD-U-T2-7030-U0**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-3)
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-U0
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K LED WITH TYPE II OPTIC AND U0 SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5807 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - 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



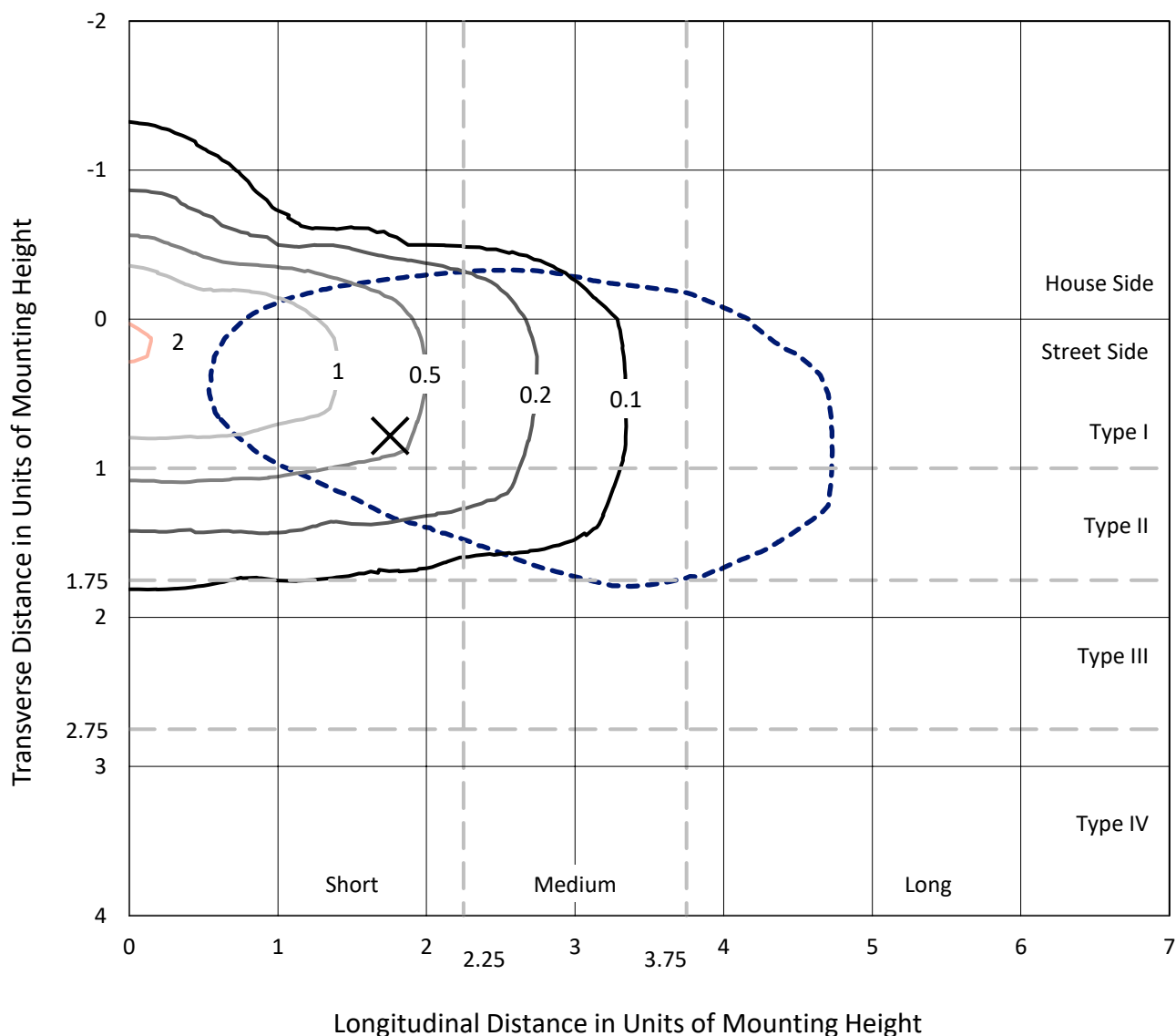
REPORT NUMBER: P691386

CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-7030-U0

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

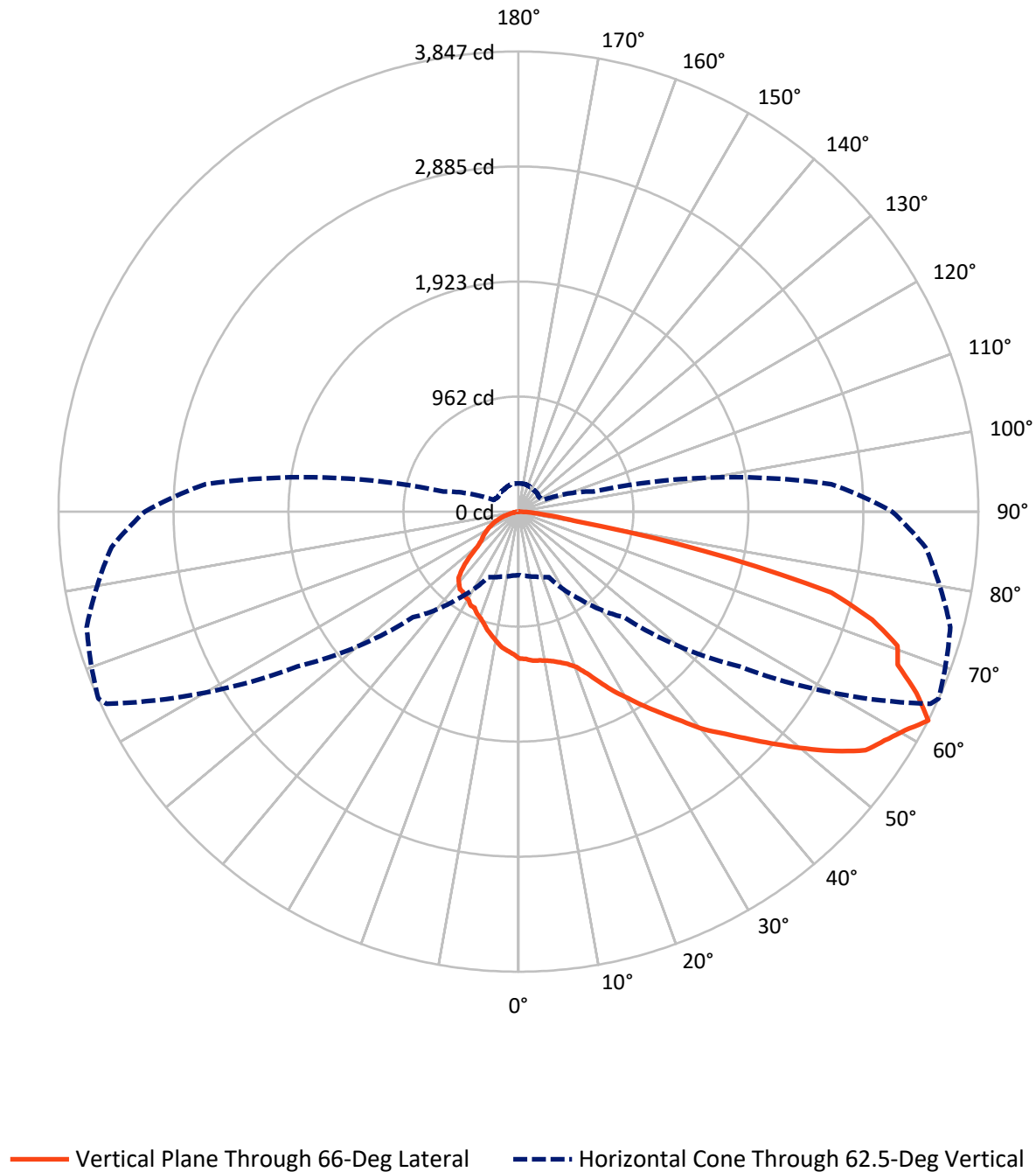


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc

Type II - Short - N/A

REPORT NUMBER: P691386
CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-7030-U0

Luminous Intensity Polar Plot



REPORT NUMBER: P691386

CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-7030-U0

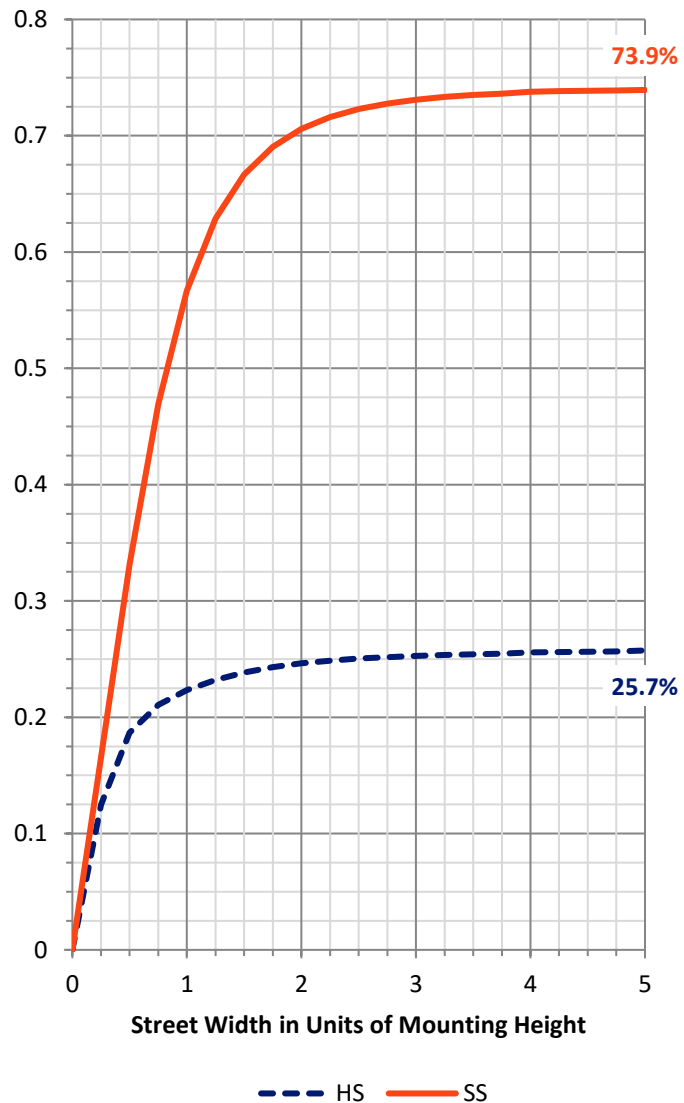
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1517.4	0.0	1517.4
	% Fixture	26.1	0.0	26.1
Street Side	Lumens	4289.7	0.0	4289.7
	% Fixture	73.9	0.0	73.9
Total	Lumens	5807.0	0.0	5807.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	2.0
10°-20°	326.1	5.6
20°-30°	529.5	9.1
30°-40°	763.7	13.2
40°-50°	993.4	17.1
50°-60°	1153.8	19.9
60°-70°	1141.6	19.7
70°-80°	707.1	12.2
80°-90°	76.8	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5807.0	100.0
0°-180°	5807.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691386

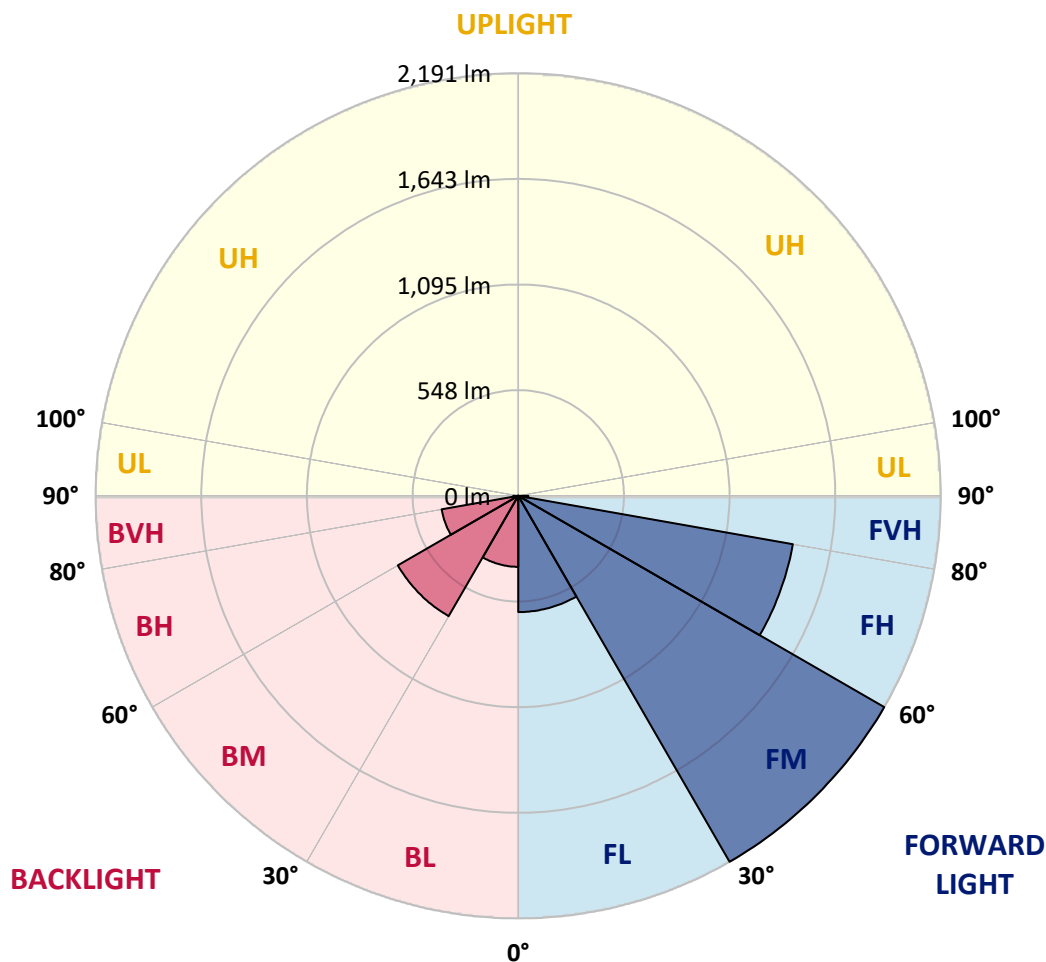
CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-7030-U0

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	602.5	10.4			
FM	(30°-60°)	2190.5	37.7			
FH	(60°-80°)	1445.2	24.9			G1/1800
FVH	(80°-90°)	51.5	0.9			G1/100
BL	(0°-30°)	368.1	6.3	B1/500		
BM	(30°-60°)	720.5	12.4	B1/1000		
BH	(60°-80°)	403.5	6.9	B1/500		G1/500
BVH	(80°-90°)	25.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P691386

CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-7030-U0

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3
2.5°	1272.3	1272.3	1276.3	1262.3	1254.3	1248.3	1242.3	1236.3	1234.3	1228.3	1220.3
5°	1328.2	1328.2	1330.2	1316.2	1300.2	1282.2	1264.3	1252.3	1252.3	1238.3	1218.3
7.5°	1358.1	1358.1	1358.1	1342.2	1332.2	1320.2	1292.2	1258.3	1256.3	1242.3	1214.3
10°	1358.1	1358.1	1366.1	1342.2	1334.2	1322.2	1306.2	1270.3	1266.3	1234.3	1196.4
12.5°	1382.1	1386.1	1382.1	1356.1	1348.2	1338.2	1316.2	1286.2	1284.2	1242.3	1188.4
15°	1416.1	1418.1	1412.1	1394.1	1386.1	1370.1	1344.2	1312.2	1308.2	1258.3	1194.4
17.5°	1424.1	1426.1	1430.0	1408.1	1408.1	1402.1	1388.1	1350.2	1340.2	1296.2	1212.3
20°	1420.1	1422.1	1428.0	1424.1	1426.1	1422.1	1432.0	1400.1	1388.1	1340.2	1240.3
22.5°	1438.0	1442.0	1454.0	1456.0	1464.0	1472.0	1476.0	1478.0	1470.0	1414.1	1298.2
25°	1444.0	1456.0	1472.0	1494.0	1521.9	1537.9	1559.9	1581.8	1579.8	1523.9	1394.1
27.5°	1416.1	1430.0	1480.0	1513.9	1575.8	1619.8	1669.7	1699.7	1699.7	1653.7	1503.9
30°	1442.0	1448.0	1474.0	1521.9	1593.8	1693.7	1771.6	1809.5	1813.5	1783.6	1611.8
32.5°	1388.1	1402.1	1466.0	1557.9	1667.7	1777.6	1855.5	1937.4	1941.3	1931.4	1769.6
35°	1382.1	1390.1	1426.1	1523.9	1665.7	1855.5	1959.3	2063.2	2073.2	2085.2	1923.4
37.5°	1320.2	1336.2	1406.1	1527.9	1721.6	1907.4	2047.2	2207.0	2223.0	2260.9	2055.2
40°	1254.3	1266.3	1324.2	1456.0	1703.7	1973.3	2133.1	2376.8	2396.7	2428.7	2236.9
42.5°	1164.4	1188.4	1288.2	1426.1	1695.7	1993.3	2229.0	2532.5	2540.5	2596.5	2380.7
45°	1080.5	1088.5	1164.4	1322.2	1625.8	2023.2	2300.9	2708.3	2714.3	2750.2	2500.6
47.5°	1012.6	1022.6	1100.5	1234.3	1561.9	2015.2	2372.8	2878.1	2906.0	2946.0	2646.4
50°	802.9	824.9	1030.6	1158.4	1452.0	2001.3	2430.7	3081.8	3113.7	3151.7	2802.2
52.5°	693.1	703.0	806.9	1082.5	1344.2	1941.3	2484.6	3289.5	3327.5	3307.5	2999.9
55°	645.1	651.1	699.0	932.7	1248.3	1827.5	2524.6	3483.2	3523.2	3427.3	3155.7
57.5°	611.2	619.2	647.1	763.0	1140.4	1627.8	2528.5	3597.1	3611.1	3527.2	3219.6
60°	565.2	571.2	611.2	667.1	1014.6	1418.1	2456.6	3647.0	3712.9	3633.0	3363.4
62.5°	531.3	537.3	563.2	605.2	892.8	1250.3	2256.9	3802.8	3846.7	3738.9	3417.3
65°	491.3	491.3	517.3	559.2	814.9	1148.4	2153.1	3752.9	3657.0	3708.9	3483.2
67.5°	433.4	437.4	463.4	497.3	683.1	1050.6	1897.4	3521.2	3421.3	3565.1	3309.5
70°	385.5	381.5	409.4	435.4	559.2	926.7	1571.9	3281.5	3363.4	3347.4	3149.7
72.5°	321.6	317.6	341.5	369.5	451.4	768.9	1242.3	3045.8	3093.8	2993.9	2794.2
75°	249.7	225.7	259.6	295.6	355.5	609.2	880.8	2522.6	2702.3	2822.1	2382.7
77.5°	39.9	39.9	49.9	69.9	115.8	309.6	393.5	1386.1	1589.8	2402.7	2089.1
80°	32.0	32.0	36.0	47.9	69.9	169.8	131.8	429.4	479.3	1036.6	1202.4
82.5°	18.0	18.0	26.0	32.0	43.9	51.9	57.9	209.7	233.7	367.5	465.4
85°	10.0	10.0	14.0	16.0	18.0	18.0	18.0	95.9	107.9	195.7	211.7
87.5°	6.0	6.0	6.0	6.0	6.0	4.0	2.0	2.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P691386

CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-7030-U0

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3
2.5°	1216.3	1210.3	1200.4	1192.4	1186.4	1180.4	1170.4	1164.4	1164.4	1174.4	1176.4
5°	1206.4	1192.4	1174.4	1166.4	1156.4	1146.4	1130.5	1122.5	1120.5	1126.5	1130.5
7.5°	1198.4	1178.4	1160.4	1140.4	1110.5	1084.5	1070.5	1060.6	1064.5	1074.5	1070.5
10°	1174.4	1156.4	1128.5	1098.5	1062.5	1040.6	1018.6	1006.6	1008.6	1014.6	1008.6
12.5°	1164.4	1140.4	1094.5	1058.6	1026.6	984.7	956.7	938.7	938.7	948.7	948.7
15°	1164.4	1128.5	1066.5	1022.6	972.7	930.7	898.8	882.8	892.8	886.8	882.8
17.5°	1174.4	1118.5	1048.6	974.7	914.8	872.8	834.9	812.9	818.9	822.9	818.9
20°	1186.4	1118.5	1026.6	936.7	866.8	806.9	765.0	741.0	739.0	741.0	745.0
22.5°	1226.3	1144.4	1012.6	912.8	806.9	749.0	707.0	665.1	663.1	661.1	665.1
25°	1294.2	1192.4	1022.6	868.8	772.9	687.1	635.1	599.2	587.2	585.2	589.2
27.5°	1406.1	1276.3	1038.6	862.8	711.0	633.1	569.2	529.3	517.3	521.3	519.3
30°	1527.9	1384.1	1084.5	820.9	675.1	553.2	493.3	459.4	447.4	439.4	441.4
32.5°	1617.8	1492.0	1142.4	806.9	605.2	467.4	423.4	403.4	389.5	379.5	377.5
35°	1759.6	1583.8	1194.4	774.9	543.3	411.4	375.5	353.5	345.5	339.5	339.5
37.5°	1895.4	1695.7	1246.3	765.0	463.4	373.5	329.5	315.6	311.6	307.6	307.6
40°	2031.2	1809.5	1276.3	725.0	399.5	327.6	285.6	283.6	289.6	285.6	287.6
42.5°	2199.0	1927.4	1306.2	687.1	353.5	279.6	255.7	271.6	283.6	285.6	285.6
45°	2314.8	2007.3	1318.2	595.2	305.6	243.7	249.7	267.6	281.6	287.6	285.6
47.5°	2420.7	2115.1	1300.2	483.3	265.6	237.7	247.7	259.6	279.6	287.6	287.6
50°	2524.6	2205.0	1284.2	357.5	251.7	239.7	247.7	253.7	275.6	283.6	283.6
52.5°	2670.4	2276.9	1230.3	299.6	239.7	241.7	253.7	251.7	269.6	281.6	285.6
55°	2872.1	2444.7	1126.5	283.6	237.7	239.7	253.7	253.7	265.6	275.6	281.6
57.5°	2962.0	2516.6	950.7	267.6	231.7	237.7	247.7	249.7	263.6	269.6	267.6
60°	3063.8	2606.4	778.9	249.7	221.7	233.7	237.7	245.7	255.7	255.7	253.7
62.5°	3125.7	2628.4	649.1	229.7	209.7	219.7	219.7	227.7	235.7	235.7	235.7
65°	3155.7	2606.4	485.3	211.7	195.7	203.7	201.7	205.7	211.7	201.7	201.7
67.5°	3037.8	2524.6	335.5	187.7	179.8	187.7	185.7	187.7	185.7	177.8	179.8
70°	2836.1	2294.9	231.7	159.8	157.8	171.8	173.8	169.8	157.8	151.8	151.8
72.5°	2582.5	1841.5	159.8	127.8	133.8	151.8	155.8	147.8	135.8	129.8	129.8
75°	2342.8	1591.8	113.8	87.9	89.9	115.8	123.8	123.8	119.8	159.8	169.8
77.5°	1629.8	1030.6	65.9	45.9	43.9	65.9	75.9	77.9	149.8	161.8	157.8
80°	966.7	485.3	47.9	28.0	28.0	37.9	51.9	101.9	171.8	115.8	103.9
82.5°	369.5	185.7	30.0	18.0	16.0	20.0	30.0	157.8	99.9	65.9	59.9
85°	133.8	45.9	14.0	10.0	10.0	12.0	18.0	133.8	69.9	49.9	47.9
87.5°	2.0	2.0	4.0	4.0	4.0	2.0	2.0	4.0	4.0	4.0	2.0
90°	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)