

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: LUMARK

Report Number: P272222

Luminaire Tested: **CTKRV3B-SR-CARETAKER**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P272222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-942-12)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: CTKRV3B-SR-CARETAKER
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE V ROUND OPTIC AND SR REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9567 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.29')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U3 - G3

Input Watts (W): 70.6
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: 25 FT

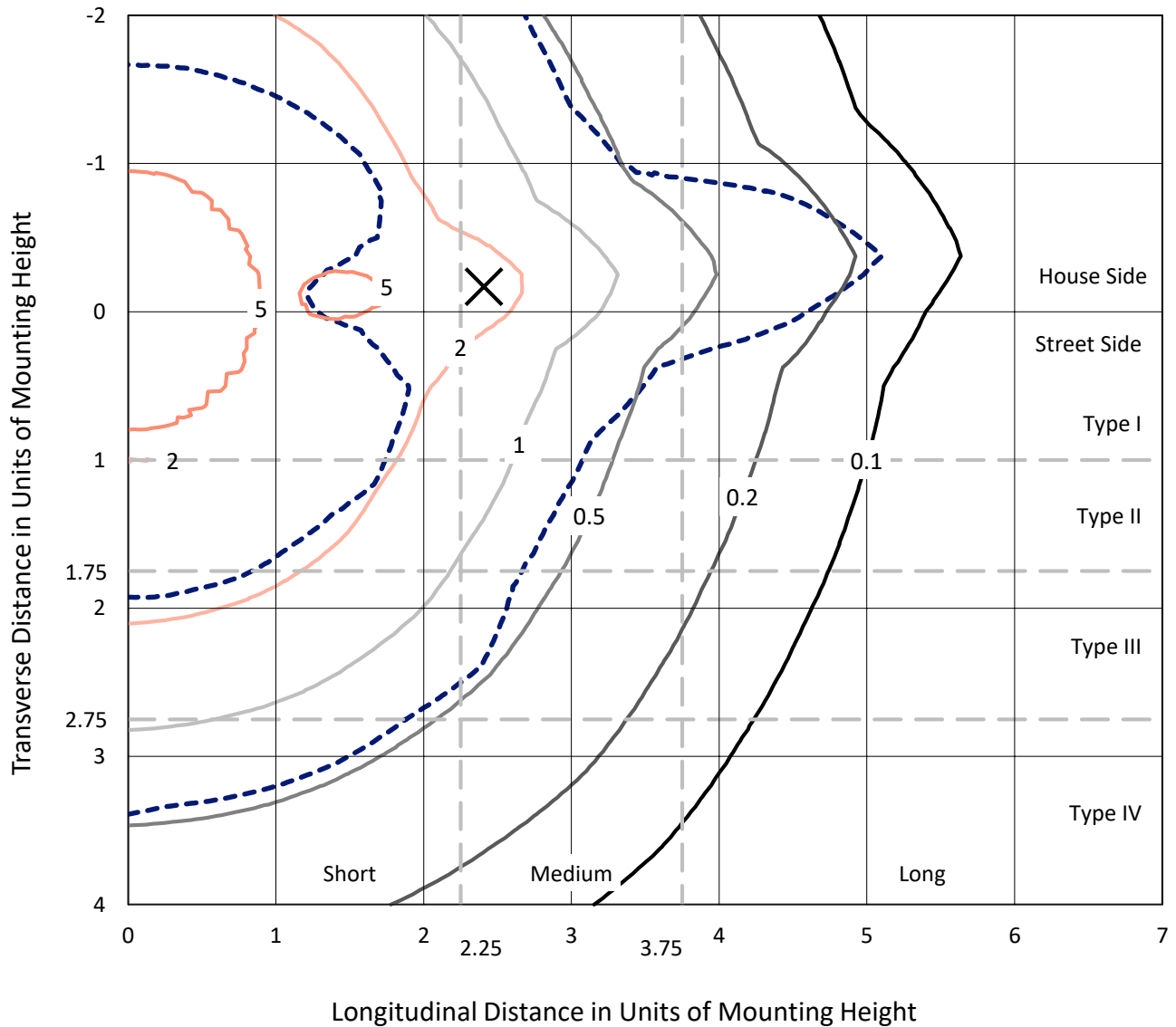


REPORT NUMBER: P272222

CATALOG NUMBER: CTKRV3B-SR-CARETAKER

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

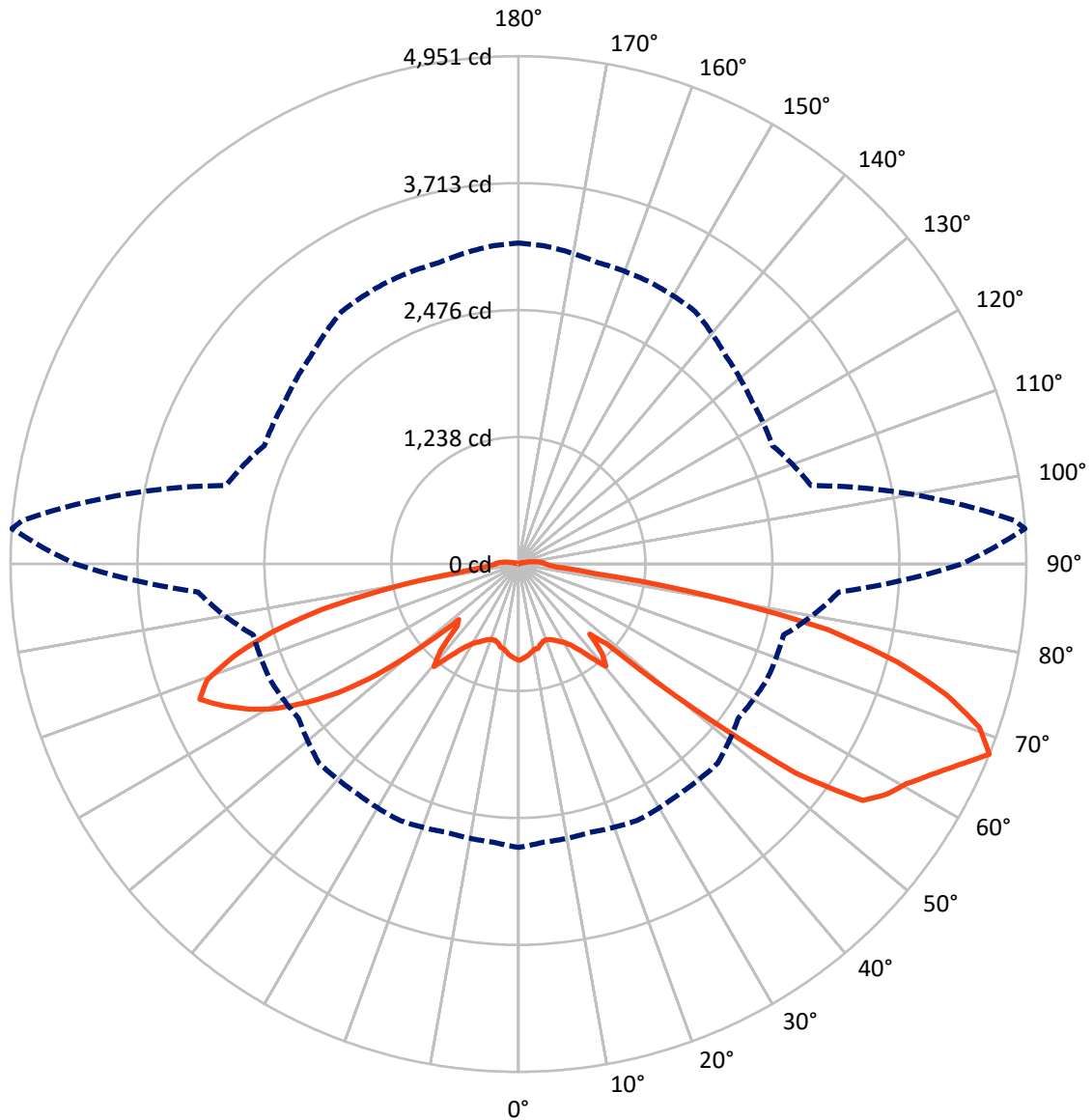


Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P272222

CATALOG NUMBER: CTKRV3B-SR-CARETAKER

Luminous Intensity Polar Plot



— Vertical Plane Through 94-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P272222

CATALOG NUMBER: CTKRV3B-SR-CARETAKER

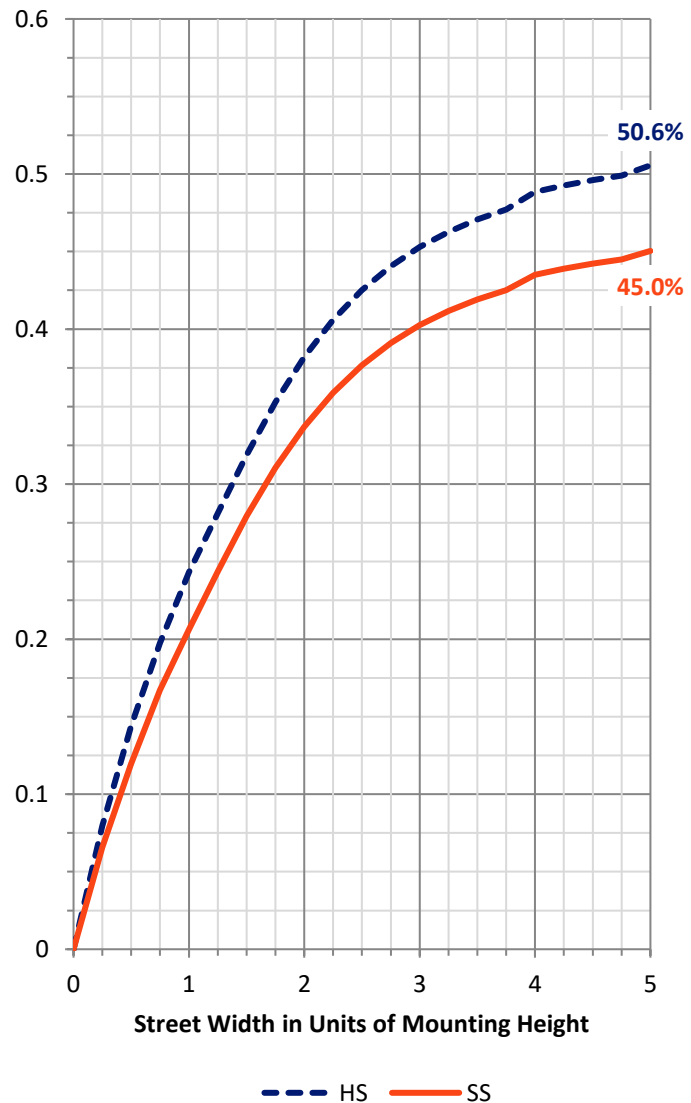
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4913.5	118.0	5031.5
	% Fixture	51.4	1.2	52.6
Street Side	Lumens	4391.4	144.1	4535.5
	% Fixture	45.9	1.5	47.4
Total	Lumens	9304.9	262.1	9567.0
	% Fixture	97.3	2.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	0.9
10°-20°	230.9	2.4
20°-30°	385.2	4.0
30°-40°	655.1	6.8
40°-50°	748.4	7.8
50°-60°	1616.0	16.9
60°-70°	2737.5	28.6
70°-80°	2337.4	24.4
80°-90°	509.4	5.3
90°-100°	182.1	1.9
100°-110°	55.0	0.6
110°-120°	14.6	0.2
120°-130°	5.4	0.1
130°-140°	3.3	0.0
140°-150°	1.3	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9304.9	97.3
0°-180°	9567.0	100.0



REPORT NUMBER: P272222

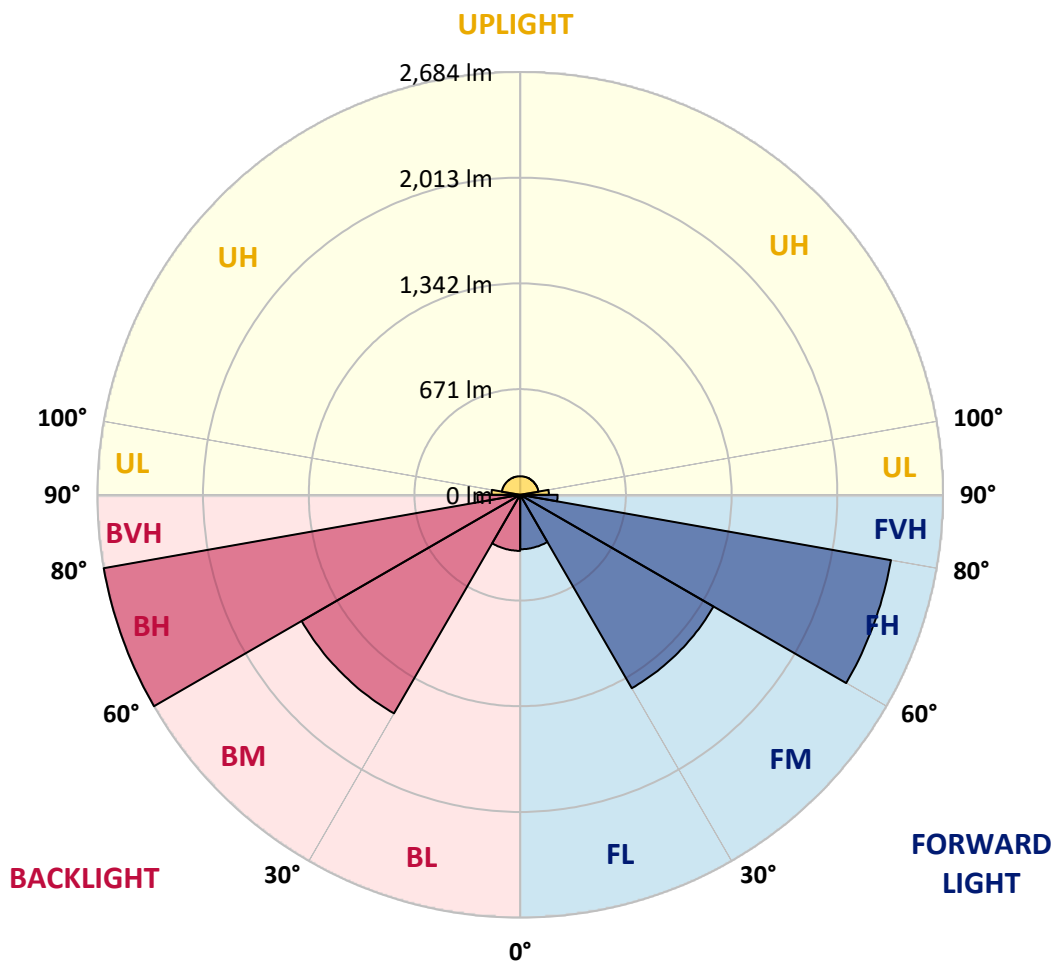
CATALOG NUMBER: CTKRV3B-SR-CARETAKER

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	345.6	3.6			
FM (30°-60°)	1417.5	14.8			
FH (60°-80°)	2390.5	25.0			G2/5000
FVH (80°-90°)	237.8	2.5			G3/500
BL (0°-30°)	355.6	3.7	B1/500		
BM (30°-60°)	1602.0	16.7	B2/2500		
BH (60°-80°)	2684.4	28.1	B4/5000		G2/5000
BVH (80°-90°)	271.6	2.8			G3/500
UL (90°-100°)	182.1	1.9		U3/500	
UH (100°-180°)	118.0	1.2		U3/500	

BUG Rating: B4-U3-G3

Type V Short





REPORT NUMBER: P272222

CATALOG NUMBER: CTKRV3B-SR-CARETAKER

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	939.4	939.4	939.4	939.4	939.4	939.4	939.4	939.4	939.4	939.4	939.4
2.5°	920.5	921.5	920.5	921.5	920.5	921.5	923.4	925.3	924.3	921.5	921.5
5°	910.2	911.1	910.2	908.3	903.5	901.7	903.5	905.4	906.4	902.6	901.7
7.5°	900.7	900.7	896.9	895.0	889.4	882.8	878.0	875.2	876.2	874.3	875.2
10°	879.0	879.9	875.2	870.5	863.9	854.4	845.9	837.5	838.4	839.3	843.1
12.5°	843.1	844.1	840.3	840.3	836.5	827.1	819.5	818.6	820.5	828.0	839.3
15°	818.6	818.6	816.7	811.0	805.4	798.7	792.1	786.5	783.6	791.2	801.6
17.5°	807.2	807.2	805.4	800.6	794.0	788.4	782.7	779.9	774.2	777.0	783.6
20°	796.9	796.9	795.0	791.2	790.2	787.4	783.6	781.7	775.1	778.9	783.6
22.5°	798.7	798.7	797.8	795.0	793.1	791.2	788.4	789.3	789.3	794.0	798.7
25°	806.3	807.2	807.2	806.3	806.3	806.3	805.4	809.1	810.1	820.5	822.3
27.5°	817.6	817.6	823.3	819.5	819.5	821.4	823.3	829.9	835.6	852.6	853.5
30°	856.3	855.4	862.9	854.4	854.4	854.4	857.3	863.9	868.6	885.6	887.5
32.5°	924.3	921.5	926.2	916.8	913.0	913.0	915.8	921.5	924.3	942.3	943.2
35°	1038.6	1026.3	1019.7	1015.9	1001.7	1002.7	1002.7	1003.6	1009.3	1018.7	1021.6
37.5°	1173.6	1169.8	1176.4	1171.7	1166.0	1153.7	1150.9	1150.9	1133.9	1136.7	1142.4
40°	1006.5	1015.9	1036.7	1044.2	1092.4	1100.9	1166.0	1211.3	1244.4	1290.6	1316.1
42.5°	650.5	671.3	690.2	721.3	773.3	762.9	855.4	924.3	998.0	1116.9	1201.9
45°	539.1	536.3	542.9	538.2	567.4	546.7	604.2	638.2	660.0	814.8	989.5
47.5°	823.3	812.0	792.1	808.2	798.7	738.3	714.7	660.9	578.8	727.0	1063.1
50°	1180.2	1171.7	1183.0	1177.3	1185.8	1115.0	1078.2	995.1	883.7	1114.1	1787.3
52.5°	1459.6	1455.9	1466.2	1461.5	1486.1	1406.8	1368.1	1295.4	1227.4	1547.4	2590.7
55°	1740.0	1733.4	1735.3	1741.9	1744.8	1658.9	1628.6	1573.9	1564.4	1927.0	3096.8
57.5°	1987.4	1978.9	2000.6	1981.7	1982.7	1904.3	1888.3	1867.5	1861.8	2276.3	3328.1
60°	2200.8	2193.2	2213.1	2183.8	2194.2	2140.4	2115.8	2124.3	2120.5	2580.3	3589.6
62.5°	2382.1	2377.3	2380.2	2361.3	2383.0	2364.1	2299.0	2327.3	2338.6	2803.1	3828.5
65°	2556.7	2534.1	2524.6	2557.7	2555.8	2561.5	2461.4	2511.4	2519.9	2985.4	4069.2
67.5°	2762.6	2723.8	2707.8	2755.0	2735.2	2746.5	2617.2	2671.0	2674.7	3136.4	4324.2
70°	2723.8	2691.7	2687.0	2729.5	2708.7	2719.1	2586.9	2616.2	2637.9	3010.9	4172.2
72.5°	2503.9	2485.9	2492.5	2502.0	2489.7	2517.1	2399.1	2394.3	2435.9	2707.8	3775.6
75°	2221.6	2182.9	2184.7	2173.4	2149.8	2190.4	2082.8	2071.4	2130.9	2320.7	3211.0
77.5°	1802.4	1755.2	1775.9	1743.8	1729.7	1756.1	1671.1	1630.5	1698.5	1835.4	2473.6
80°	1186.8	1133.9	1167.0	1151.9	1117.9	1144.3	1086.7	1080.1	1110.3	1168.8	1450.2
82.5°	510.8	492.8	500.4	495.7	467.3	508.9	501.3	514.6	539.1	563.7	630.7
85°	285.1	277.6	286.1	284.2	278.5	288.9	297.4	309.7	311.6	326.7	340.8
87.5°	252.1	251.1	253.0	251.1	246.4	249.3	255.9	265.3	258.7	263.4	271.9
90°	235.1	234.1	233.2	228.5	224.7	226.6	232.3	236.0	228.5	227.5	240.8
92.5°	220.9	219.0	216.2	212.4	208.7	208.7	210.5	210.5	202.0	205.8	222.8
95°	186.0	186.9	185.1	182.2	179.4	177.5	179.4	178.4	173.7	179.4	196.4
97.5°	148.2	148.2	146.3	145.4	142.6	141.6	142.6	141.6	137.8	142.6	155.8
100°	118.0	117.1	115.2	114.2	114.2	114.2	115.2	112.4	106.7	106.7	115.2
102.5°	90.6	89.7	88.7	88.7	88.7	86.9	88.7	85.9	79.3	78.4	78.4
105°	61.4	61.4	60.4	60.4	60.4	57.6	57.6	55.7	50.0	49.1	47.2
107.5°	35.9	35.9	35.9	36.8	36.8	35.9	36.8	35.9	33.0	32.1	33.0
110°	25.5	25.5	26.4	27.4	27.4	26.4	27.4	27.4	25.5	25.5	25.5



REPORT NUMBER: P272222

CATALOG NUMBER: CTKRV3B-SR-CARETAKER

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	19.8	20.8	20.8	21.7	21.7	21.7	22.7	21.7	20.8	20.8	19.8
115°	16.1	16.1	17.0	17.0	17.9	17.0	17.9	17.0	16.1	16.1	16.1
117.5°	12.3	12.3	12.3	13.2	13.2	13.2	14.2	12.3	12.3	11.3	12.3
120°	8.5	8.5	8.5	9.4	9.4	9.4	9.4	9.4	9.4	8.5	8.5
122.5°	6.6	6.6	6.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
125°	5.7	5.7	5.7	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
127.5°	5.7	5.7	5.7	6.6	6.6	5.7	5.7	5.7	5.7	5.7	5.7
130°	4.7	4.7	5.7	5.7	6.6	5.7	5.7	5.7	5.7	4.7	5.7
132.5°	4.7	4.7	4.7	5.7	6.6	5.7	5.7	5.7	5.7	4.7	4.7
135°	4.7	4.7	4.7	5.7	5.7	5.7	4.7	4.7	4.7	4.7	4.7
137.5°	3.8	3.8	3.8	4.7	4.7	4.7	4.7	4.7	4.7	3.8	3.8
140°	2.8	2.8	2.8	3.8	3.8	3.8	3.8	3.8	3.8	2.8	2.8
142.5°	1.9	2.8	2.8	2.8	3.8	2.8	2.8	2.8	2.8	2.8	1.9
145°	1.9	1.9	1.9	2.8	2.8	2.8	2.8	2.8	2.8	1.9	1.9
147.5°	1.9	1.9	1.9	2.8	2.8	2.8	2.8	1.9	1.9	1.9	1.9
150°	0.9	0.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.9	0.9
152.5°	0.9	0.9	0.9	1.9	1.9	1.9	1.9	1.9	0.9	0.9	0.9
155°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0
157.5°	0.0	0.0	0.0	0.9	0.9	0.0	0.9	0.9	0.9	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.0
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



REPORT NUMBER: P272222

CATALOG NUMBER: CTKRV3B-SR-CARETAKER

CANDELA DISTRIBUTION (continued):

	94°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	939.4	939.4	939.4	939.4	939.4	939.4	939.4	939.4	939.4	939.4	939.4
2.5°	920.5	920.5	922.4	927.1	933.8	938.5	941.3	942.3	943.2	942.3	943.2
5°	899.8	899.8	901.7	903.5	910.2	915.8	920.5	926.2	929.0	928.1	928.1
7.5°	873.3	872.4	872.4	873.3	876.2	881.8	887.5	895.0	899.8	904.5	905.4
10°	845.9	845.9	853.5	849.7	845.9	845.9	852.6	859.2	864.8	866.7	868.6
12.5°	845.0	845.9	859.2	849.7	840.3	836.5	839.3	845.0	852.6	855.4	858.2
15°	811.0	812.0	826.1	821.4	812.9	810.1	817.6	826.1	831.8	833.7	835.6
17.5°	789.3	790.2	801.6	801.6	798.7	799.7	803.5	808.2	812.9	816.7	819.5
20°	786.5	787.4	794.0	795.9	800.6	805.4	809.1	813.8	816.7	819.5	823.3
22.5°	800.6	801.6	802.5	800.6	808.2	817.6	824.2	829.0	833.7	837.5	840.3
25°	823.3	824.2	824.2	819.5	827.1	838.4	848.8	857.3	861.1	865.8	870.5
27.5°	855.4	855.4	858.2	853.5	856.3	865.8	878.0	885.6	892.2	897.9	902.6
30°	888.4	887.5	893.2	889.4	890.3	896.9	909.2	915.8	920.5	926.2	930.0
32.5°	944.1	943.2	946.0	940.4	938.5	940.4	947.0	954.5	959.2	964.0	965.9
35°	1031.9	1028.2	1021.6	1016.8	1013.1	1009.3	1012.1	1014.0	1014.9	1021.6	1027.2
37.5°	1159.4	1152.8	1125.4	1125.4	1119.7	1116.9	1116.0	1116.0	1113.1	1131.1	1146.2
40°	1309.5	1306.7	1298.2	1309.5	1312.4	1306.7	1308.6	1307.6	1308.6	1344.5	1356.7
42.5°	1200.0	1206.6	1261.4	1313.3	1358.6	1364.3	1421.9	1447.4	1459.6	1484.2	1485.1
45°	975.3	988.5	953.6	982.8	1049.9	1057.4	1143.4	1192.4	1212.3	1224.5	1213.2
47.5°	1164.1	1169.8	745.9	659.0	743.0	765.7	834.6	892.2	905.4	888.4	875.2
50°	2209.3	2221.6	997.0	748.7	801.6	826.1	835.6	852.6	843.1	851.6	858.2
52.5°	3386.6	3324.3	1417.2	1182.1	1205.7	1259.5	1295.4	1318.0	1276.5	1303.9	1322.7
55°	4069.2	3985.2	1790.1	1556.9	1545.6	1618.3	1721.2	1792.0	1788.2	1796.7	1811.8
57.5°	4234.5	4146.7	2118.6	1894.9	1876.9	1944.0	2033.7	2117.7	2145.1	2171.5	2147.9
60°	4347.8	4251.5	2390.6	2185.7	2181.9	2250.8	2337.7	2413.2	2458.5	2524.6	2542.6
62.5°	4518.7	4419.5	2606.8	2417.0	2427.4	2518.0	2601.1	2661.5	2704.0	2801.3	2802.2
65°	4717.9	4622.5	2795.6	2601.1	2626.6	2732.3	2842.8	2877.7	2918.3	3013.7	3016.5
67.5°	4951.1	4857.6	2953.3	2732.3	2775.8	2863.6	3005.2	3031.6	3038.2	3110.0	3128.9
70°	4767.0	4695.2	2869.2	2666.2	2708.7	2780.5	2908.9	2931.6	2935.3	2974.0	2997.6
72.5°	4364.8	4269.4	2617.2	2458.5	2485.0	2550.1	2661.5	2663.4	2692.7	2735.2	2760.7
75°	3813.4	3718.0	2258.4	2148.9	2158.3	2253.7	2332.0	2337.7	2386.8	2453.8	2473.6
77.5°	3088.3	2994.8	1784.4	1707.0	1721.2	1801.4	1856.2	1849.6	1892.1	1944.9	1973.3
80°	1889.2	1817.5	1136.7	1124.5	1127.3	1180.2	1210.4	1208.5	1244.4	1309.5	1317.1
82.5°	747.8	726.0	567.4	576.9	575.0	602.4	596.7	598.6	628.8	672.2	679.8
85°	369.2	372.0	327.6	332.3	338.9	355.0	354.1	351.2	375.8	397.5	399.4
87.5°	293.6	291.7	258.7	258.7	269.1	277.6	278.5	282.3	292.7	305.0	302.1
90°	257.8	256.8	226.6	224.7	234.1	237.9	236.0	237.9	241.7	244.5	245.5
92.5°	238.9	235.1	198.3	198.3	202.0	201.1	197.3	195.4	188.8	180.3	172.8
95°	207.7	202.0	166.2	166.2	167.1	164.3	155.8	145.4	123.7	103.9	105.7
97.5°	162.4	157.7	130.3	130.3	128.4	121.8	110.5	94.4	77.4	67.0	72.7
100°	117.1	115.2	97.2	97.2	95.4	88.7	78.4	65.1	53.8	40.6	47.2
102.5°	79.3	77.4	69.9	68.9	67.0	60.4	53.8	44.4	36.8	26.4	31.2
105°	47.2	46.3	43.4	42.5	40.6	36.8	34.0	27.4	20.8	16.1	18.9
107.5°	32.1	32.1	30.2	30.2	29.3	27.4	24.5	19.8	15.1	10.4	12.3
110°	24.5	24.5	23.6	23.6	22.7	20.8	18.9	15.1	11.3	6.6	8.5



REPORT NUMBER: P272222

CATALOG NUMBER: CTKRV3B-SR-CARETAKER

CANDELA DISTRIBUTION (continued):

	94°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	19.8	19.8	18.9	18.9	17.9	17.0	14.2	12.3	8.5	4.7	6.6
115°	16.1	16.1	15.1	15.1	14.2	13.2	11.3	9.4	6.6	3.8	4.7
117.5°	12.3	12.3	11.3	11.3	11.3	10.4	9.4	7.6	4.7	1.9	2.8
120°	9.4	9.4	8.5	8.5	8.5	8.5	7.6	5.7	3.8	1.9	1.9
122.5°	7.6	7.6	6.6	6.6	6.6	6.6	6.6	4.7	2.8	0.9	0.9
125°	6.6	6.6	5.7	5.7	5.7	6.6	5.7	4.7	1.9	0.9	0.9
127.5°	5.7	5.7	5.7	5.7	6.6	6.6	5.7	4.7	1.9	0.0	0.0
130°	5.7	5.7	5.7	5.7	6.6	6.6	5.7	3.8	1.9	0.0	0.0
132.5°	4.7	4.7	4.7	5.7	5.7	6.6	5.7	3.8	0.9	0.0	0.0
135°	4.7	4.7	4.7	4.7	5.7	5.7	4.7	2.8	0.9	0.0	0.0
137.5°	3.8	3.8	3.8	4.7	4.7	4.7	3.8	1.9	0.9	0.0	0.0
140°	2.8	2.8	2.8	3.8	3.8	3.8	2.8	1.9	0.0	0.0	0.0
142.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	0.9	0.0	0.0	0.0
145°	1.9	1.9	1.9	2.8	2.8	2.8	1.9	0.9	0.0	0.0	0.0
147.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.9	0.0	0.0	0.0
150°	0.9	0.9	0.9	1.9	1.9	1.9	0.9	0.0	0.0	0.0	0.0
152.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.0
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

(END OF REPORT)