

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: P272221

Luminaire Tested: **CTKRV2B-SR-CARETAKER**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P272221
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: CTKRV2B-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: 6983 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.29')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U3 - G2

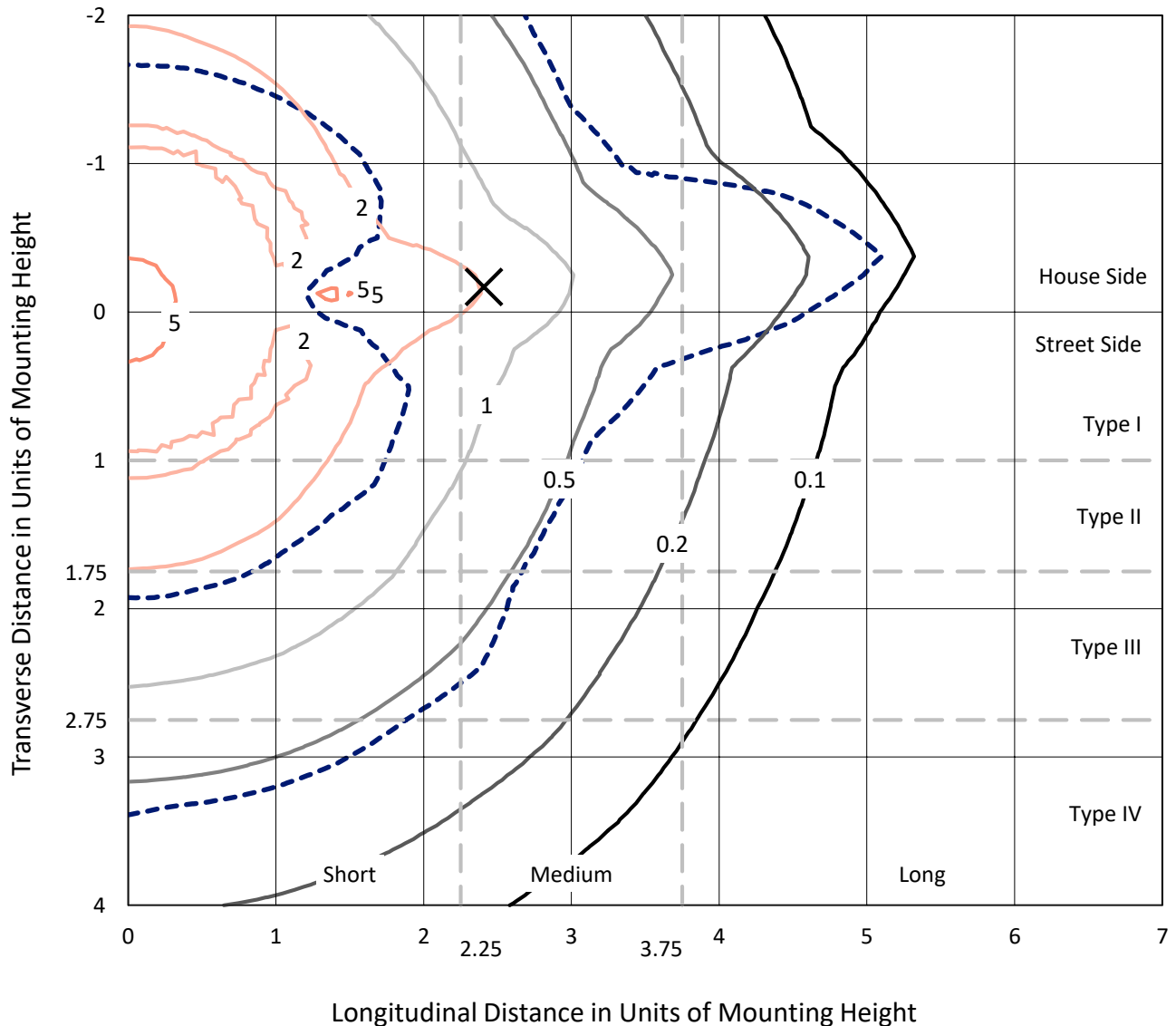
Input Watts (W): 49.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P272221
 CATALOG NUMBER: CTKRV2B-SR-CARETAKER

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

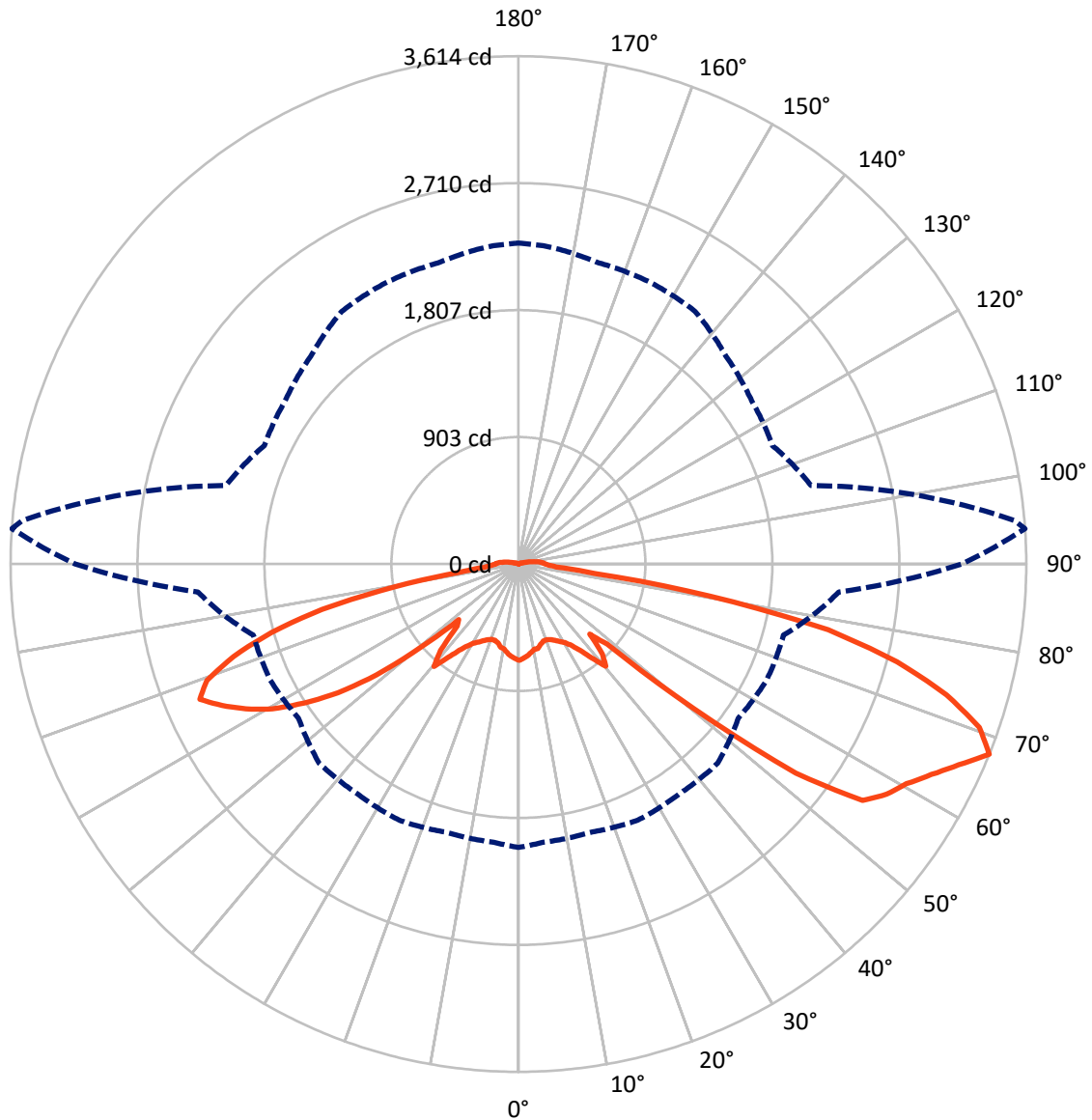


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P272221

CATALOG NUMBER: CTKRV2B-SR-CARETAKER

Luminous Intensity Polar Plot



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

REPORT NUMBER: P272221

CATALOG NUMBER: CTKRV2B-SR-CARETAKER

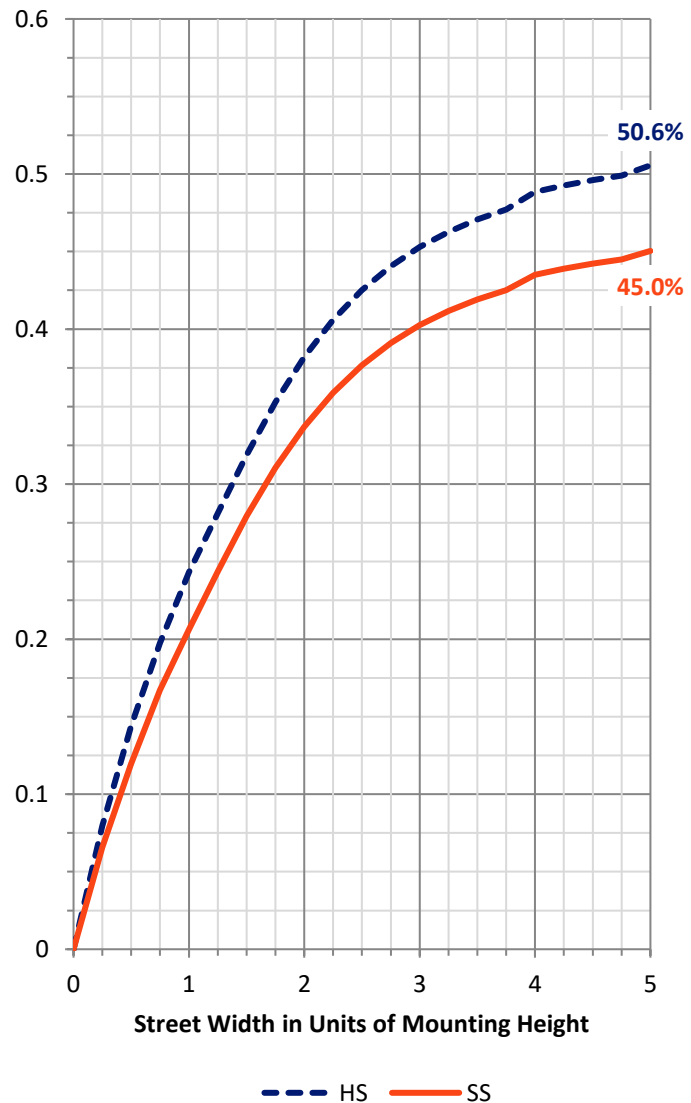
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3586.4	86.1	3672.5
	% Fixture	51.4	1.2	52.6
Street Side	Lumens	3205.3	105.2	3310.5
	% Fixture	45.9	1.5	47.4
Total	Lumens	6791.7	191.3	6983.0
	% Fixture	97.3	2.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	0.9
10°-20°	168.5	2.4
20°-30°	281.1	4.0
30°-40°	478.2	6.8
40°-50°	546.2	7.8
50°-60°	1179.5	16.9
60°-70°	1998.1	28.6
70°-80°	1706.1	24.4
80°-90°	371.8	5.3
90°-100°	133.0	1.9
100°-110°	40.1	0.6
110°-120°	10.7	0.2
120°-130°	3.9	0.1
130°-140°	2.4	0.0
140°-150°	1.0	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6791.7	97.3
0°-180°	6983.0	100.0



REPORT NUMBER: P272221

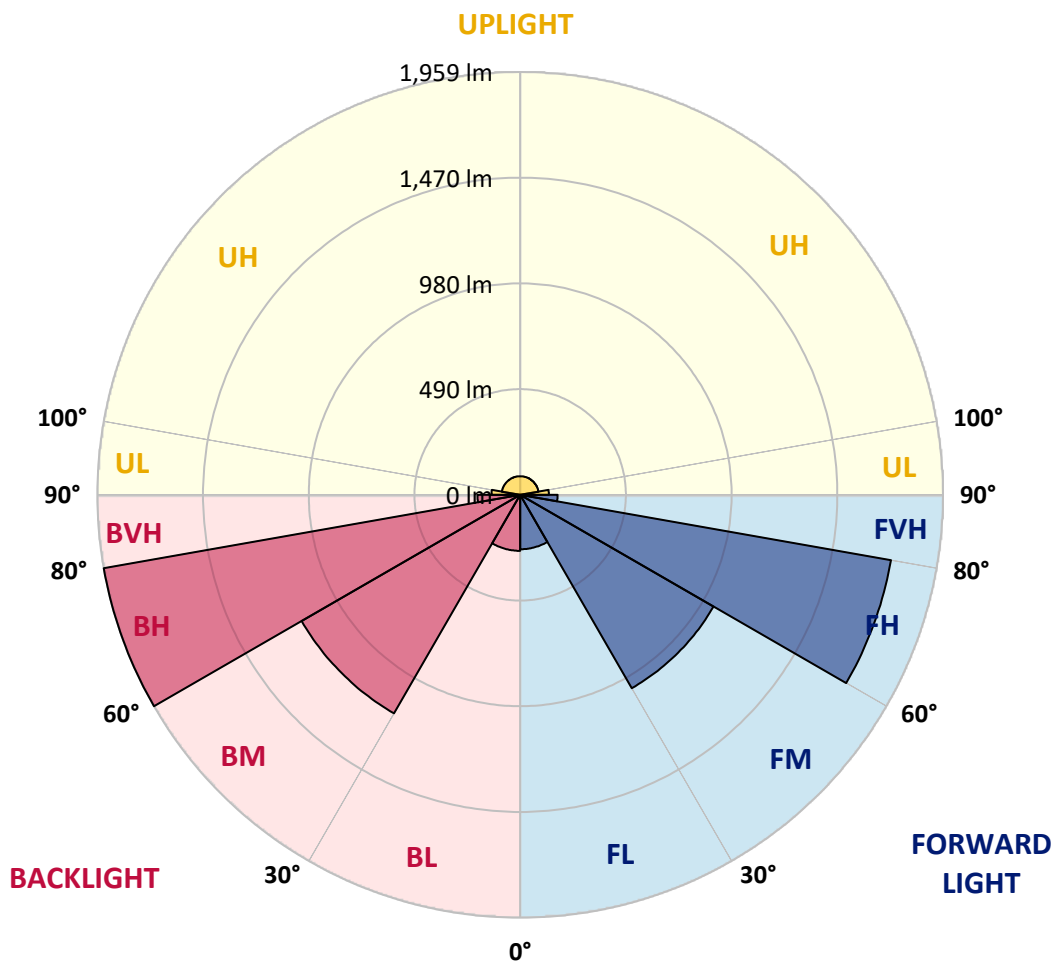
CATALOG NUMBER: CTKRV2B-SR-CARETAKER

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	252.2	3.6			
FM (30°-60°)	1034.6	14.8			
FH (60°-80°)	1744.9	25.0			G1/1800
FVH (80°-90°)	173.6	2.5			G2/225
BL (0°-30°)	259.6	3.7	B1/500		
BM (30°-60°)	1169.3	16.7	B2/2500		
BH (60°-80°)	1959.3	28.1	B3/2500		G2/5000
BVH (80°-90°)	198.2	2.8			G2/225
UL (90°-100°)	133.0	1.9		U3/500	
UH (100°-180°)	86.1	1.2		U3/500	

BUG Rating: B3-U3-G2

Type V Short





REPORT NUMBER: P272221

CATALOG NUMBER: CTKRV2B-SR-CARETAKER

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	685.7	685.7	685.7	685.7	685.7	685.7	685.7	685.7	685.7	685.7	685.7
2.5°	671.9	672.6	671.9	672.6	671.9	672.6	674.0	675.3	674.7	672.6	672.6
5°	664.3	665.0	664.3	662.9	659.5	658.1	659.5	660.9	661.6	658.8	658.1
7.5°	657.4	657.4	654.7	653.3	649.2	644.3	640.9	638.8	639.5	638.1	638.8
10°	641.6	642.3	638.8	635.4	630.6	623.7	617.5	611.3	611.9	612.6	615.4
12.5°	615.4	616.1	613.3	613.3	610.6	603.7	598.2	597.5	598.9	604.4	612.6
15°	597.5	597.5	596.1	592.0	587.8	583.0	578.2	574.0	572.0	577.5	585.1
17.5°	589.2	589.2	587.8	584.4	579.6	575.4	571.3	569.2	565.1	567.2	572.0
20°	581.6	581.6	580.2	577.5	576.8	574.7	572.0	570.6	565.8	568.5	572.0
22.5°	583.0	583.0	582.3	580.2	578.9	577.5	575.4	576.1	576.1	579.6	583.0
25°	588.5	589.2	589.2	588.5	588.5	588.5	587.8	590.6	591.3	598.9	600.2
27.5°	596.8	596.8	600.9	598.2	598.2	599.5	600.9	605.7	609.9	622.3	623.0
30°	625.0	624.4	629.9	623.7	623.7	623.7	625.7	630.6	634.0	646.4	647.8
32.5°	674.7	672.6	676.0	669.1	666.4	666.4	668.5	672.6	674.7	687.8	688.4
35°	758.0	749.1	744.3	741.5	731.2	731.9	731.9	732.5	736.7	743.6	745.6
37.5°	856.6	853.8	858.7	855.2	851.1	842.1	840.1	840.1	827.6	829.7	833.8
40°	734.6	741.5	756.7	762.2	797.3	803.5	851.1	884.2	908.3	942.0	960.6
42.5°	474.8	490.0	503.8	526.5	564.4	556.8	624.4	674.7	728.4	815.2	877.3
45°	393.5	391.4	396.3	392.8	414.2	399.0	441.0	465.9	481.7	594.7	722.2
47.5°	600.9	592.7	578.2	589.9	583.0	538.9	521.7	482.4	422.4	530.6	776.0
50°	861.4	855.2	863.5	859.3	865.5	813.9	787.0	726.3	645.0	813.2	1304.5
52.5°	1065.4	1062.6	1070.2	1066.8	1084.7	1026.8	998.6	945.5	895.9	1129.5	1891.0
55°	1270.1	1265.2	1266.6	1271.4	1273.5	1210.8	1188.8	1148.8	1141.9	1406.5	2260.4
57.5°	1450.6	1444.4	1460.3	1446.5	1447.2	1390.0	1378.3	1363.1	1359.0	1661.5	2429.2
60°	1606.4	1600.9	1615.3	1594.0	1601.5	1562.3	1544.3	1550.5	1547.8	1883.4	2620.1
62.5°	1738.7	1735.2	1737.3	1723.5	1739.4	1725.6	1678.0	1698.7	1707.0	2046.0	2794.4
65°	1866.2	1849.6	1842.7	1866.9	1865.5	1869.6	1796.6	1833.1	1839.3	2179.0	2970.2
67.5°	2016.4	1988.1	1976.4	2010.9	1996.4	2004.7	1910.3	1949.6	1952.3	2289.3	3156.2
70°	1988.1	1964.7	1961.3	1992.3	1977.1	1984.7	1888.2	1909.6	1925.4	2197.6	3045.3
72.5°	1827.6	1814.5	1819.3	1826.2	1817.2	1837.2	1751.1	1747.6	1778.0	1976.4	2755.8
75°	1621.5	1593.3	1594.7	1586.4	1569.2	1598.8	1520.2	1512.0	1555.4	1693.9	2343.7
77.5°	1315.6	1281.1	1296.3	1272.8	1262.5	1281.8	1219.8	1190.1	1239.7	1339.7	1805.5
80°	866.2	827.6	851.8	840.7	815.9	835.2	793.2	788.4	810.4	853.1	1058.5
82.5°	372.8	359.7	365.2	361.8	341.1	371.4	365.9	375.6	393.5	411.4	460.3
85°	208.1	202.6	208.8	207.4	203.3	210.9	217.1	226.0	227.4	238.4	248.8
87.5°	184.0	183.3	184.7	183.3	179.9	181.9	186.8	193.6	188.8	192.3	198.5
90°	171.6	170.9	170.2	166.8	164.0	165.4	169.5	172.3	166.8	166.1	175.7
92.5°	161.3	159.9	157.8	155.1	152.3	152.3	153.7	153.7	147.5	150.2	162.6
95°	135.8	136.4	135.1	133.0	130.9	129.6	130.9	130.2	126.8	130.9	143.3
97.5°	108.2	108.2	106.8	106.1	104.1	103.4	104.1	103.4	100.6	104.1	113.7
100°	86.1	85.5	84.1	83.4	83.4	83.4	84.1	82.0	77.9	77.9	84.1
102.5°	66.2	65.5	64.8	64.8	64.8	63.4	64.8	62.7	57.9	57.2	57.2
105°	44.8	44.8	44.1	44.1	44.1	42.0	42.0	40.7	36.5	35.8	34.5
107.5°	26.2	26.2	26.2	26.9	26.9	26.2	26.9	26.2	24.1	23.4	24.1
110°	18.6	18.6	19.3	20.0	20.0	19.3	20.0	20.0	18.6	18.6	18.6



REPORT NUMBER: P272221

CATALOG NUMBER: CTKRV2B-SR-CARETAKER

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	14.5	15.2	15.2	15.9	15.9	15.9	16.5	15.9	15.2	15.2	14.5
115°	11.7	11.7	12.4	12.4	13.1	12.4	13.1	12.4	11.7	11.7	11.7
117.5°	9.0	9.0	9.0	9.6	9.6	9.6	10.3	9.0	9.0	8.3	9.0
120°	6.2	6.2	6.2	6.9	6.9	6.9	6.9	6.9	6.9	6.2	6.2
122.5°	4.8	4.8	4.8	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
125°	4.1	4.1	4.1	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
127.5°	4.1	4.1	4.1	4.8	4.8	4.1	4.1	4.1	4.1	4.1	4.1
130°	3.4	3.4	4.1	4.1	4.8	4.1	4.1	4.1	4.1	3.4	4.1
132.5°	3.4	3.4	3.4	4.1	4.8	4.1	4.1	4.1	4.1	3.4	3.4
135°	3.4	3.4	3.4	4.1	4.1	4.1	3.4	3.4	3.4	3.4	3.4
137.5°	2.8	2.8	2.8	3.4	3.4	3.4	3.4	3.4	3.4	2.8	2.8
140°	2.1	2.1	2.1	2.8	2.8	2.8	2.8	2.8	2.8	2.1	2.1
142.5°	1.4	2.1	2.1	2.1	2.8	2.1	2.1	2.1	2.1	2.1	1.4
145°	1.4	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.1	1.4	1.4
147.5°	1.4	1.4	1.4	2.1	2.1	2.1	2.1	1.4	1.4	1.4	1.4
150°	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.7
152.5°	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7
155°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0
157.5°	0.0	0.0	0.0	0.7	0.7	0.0	0.7	0.7	0.7	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: P272221

CATALOG NUMBER: CTKRV2B-SR-CARETAKER

CANDELA DISTRIBUTION (continued):

	94°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	685.7	685.7	685.7	685.7	685.7	685.7	685.7	685.7	685.7	685.7	685.7
2.5°	671.9	671.9	673.3	676.7	681.6	685.0	687.1	687.8	688.4	687.8	688.4
5°	656.7	656.7	658.1	659.5	664.3	668.5	671.9	676.0	678.1	677.4	677.4
7.5°	637.4	636.8	636.8	637.4	639.5	643.6	647.8	653.3	656.7	660.2	660.9
10°	617.5	617.5	623.0	620.2	617.5	617.5	622.3	627.1	631.2	632.6	634.0
12.5°	616.8	617.5	627.1	620.2	613.3	610.6	612.6	616.8	622.3	624.4	626.4
15°	592.0	592.7	603.0	599.5	593.3	591.3	596.8	603.0	607.1	608.5	609.9
17.5°	576.1	576.8	585.1	585.1	583.0	583.7	586.5	589.9	593.3	596.1	598.2
20°	574.0	574.7	579.6	580.9	584.4	587.8	590.6	594.0	596.1	598.2	600.9
22.5°	584.4	585.1	585.8	584.4	589.9	596.8	601.6	605.1	608.5	611.3	613.3
25°	600.9	601.6	601.6	598.2	603.7	611.9	619.5	625.7	628.5	631.9	635.4
27.5°	624.4	624.4	626.4	623.0	625.0	631.9	640.9	646.4	651.2	655.4	658.8
30°	648.5	647.8	651.9	649.2	649.9	654.7	663.6	668.5	671.9	676.0	678.8
32.5°	689.1	688.4	690.5	686.4	685.0	686.4	691.2	696.7	700.2	703.6	705.0
35°	753.2	750.5	745.6	742.2	739.4	736.7	738.7	740.1	740.8	745.6	749.8
37.5°	846.3	841.4	821.4	821.4	817.3	815.2	814.6	814.6	812.5	825.6	836.6
40°	955.8	953.8	947.6	955.8	957.9	953.8	955.1	954.4	955.1	981.3	990.3
42.5°	875.9	880.7	920.7	958.6	991.7	995.8	1037.8	1056.4	1065.4	1083.3	1084.0
45°	711.9	721.5	696.0	717.4	766.3	771.8	834.5	870.4	884.8	893.8	885.5
47.5°	849.7	853.8	544.4	481.0	542.3	558.9	609.2	651.2	660.9	648.5	638.8
50°	1612.6	1621.5	727.7	546.5	585.1	603.0	609.9	622.3	615.4	621.6	626.4
52.5°	2471.9	2426.4	1034.4	862.8	880.0	919.3	945.5	962.0	931.7	951.7	965.5
55°	2970.2	2908.8	1306.6	1136.4	1128.1	1181.2	1256.3	1308.0	1305.2	1311.4	1322.4
57.5°	3090.8	3026.7	1546.4	1383.1	1370.0	1418.9	1484.4	1545.7	1565.7	1585.0	1567.8
60°	3173.5	3103.2	1744.9	1595.3	1592.6	1642.9	1706.3	1761.4	1794.5	1842.7	1855.8
62.5°	3298.2	3225.8	1902.7	1764.2	1771.8	1837.9	1898.6	1942.7	1973.7	2044.7	2045.3
65°	3443.6	3374.0	2040.5	1898.6	1917.2	1994.3	2075.0	2100.5	2130.1	2199.7	2201.8
67.5°	3613.8	3545.6	2155.6	1994.3	2026.0	2090.1	2193.5	2212.8	2217.6	2270.0	2283.8
70°	3479.4	3427.1	2094.3	1946.1	1977.1	2029.5	2123.2	2139.8	2142.5	2170.8	2188.0
72.5°	3185.9	3116.3	1910.3	1794.5	1813.8	1861.3	1942.7	1944.0	1965.4	1996.4	2015.0
75°	2783.4	2713.8	1648.4	1568.5	1575.4	1645.0	1702.2	1706.3	1742.1	1791.1	1805.5
77.5°	2254.2	2185.9	1302.5	1246.0	1256.3	1314.9	1354.8	1350.0	1381.0	1419.6	1440.3
80°	1379.0	1326.6	829.7	820.8	822.8	861.4	883.5	882.1	908.3	955.8	961.3
82.5°	545.8	529.9	414.2	421.1	419.7	439.7	435.5	436.9	459.0	490.7	496.2
85°	269.5	271.5	239.1	242.6	247.4	259.1	258.4	256.4	274.3	290.1	291.5
87.5°	214.3	212.9	188.8	188.8	196.4	202.6	203.3	206.1	213.6	222.6	220.5
90°	188.1	187.4	165.4	164.0	170.9	173.7	172.3	173.7	176.4	178.5	179.2
92.5°	174.4	171.6	144.7	144.7	147.5	146.8	144.0	142.7	137.8	131.6	126.1
95°	151.6	147.5	121.3	121.3	122.0	119.9	113.7	106.1	90.3	75.8	77.2
97.5°	118.5	115.1	95.1	95.1	93.7	88.9	80.6	68.9	56.5	48.9	53.1
100°	85.5	84.1	71.0	71.0	69.6	64.8	57.2	47.6	39.3	29.6	34.5
102.5°	57.9	56.5	51.0	50.3	48.9	44.1	39.3	32.4	26.9	19.3	22.7
105°	34.5	33.8	31.7	31.0	29.6	26.9	24.8	20.0	15.2	11.7	13.8
107.5°	23.4	23.4	22.1	22.1	21.4	20.0	17.9	14.5	11.0	7.6	9.0
110°	17.9	17.9	17.2	17.2	16.5	15.2	13.8	11.0	8.3	4.8	6.2



REPORT NUMBER: P272221

CATALOG NUMBER: CTKRV2B-SR-CARETAKER

CANDELA DISTRIBUTION (continued):

	94°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	14.5	14.5	13.8	13.8	13.1	12.4	10.3	9.0	6.2	3.4	4.8
115°	11.7	11.7	11.0	11.0	10.3	9.6	8.3	6.9	4.8	2.8	3.4
117.5°	9.0	9.0	8.3	8.3	8.3	7.6	6.9	5.5	3.4	1.4	2.1
120°	6.9	6.9	6.2	6.2	6.2	6.2	5.5	4.1	2.8	1.4	1.4
122.5°	5.5	5.5	4.8	4.8	4.8	4.8	4.8	3.4	2.1	0.7	0.7
125°	4.8	4.8	4.1	4.1	4.1	4.8	4.1	3.4	1.4	0.7	0.7
127.5°	4.1	4.1	4.1	4.1	4.8	4.8	4.1	3.4	1.4	0.0	0.0
130°	4.1	4.1	4.1	4.1	4.8	4.8	4.1	2.8	1.4	0.0	0.0
132.5°	3.4	3.4	3.4	4.1	4.1	4.8	4.1	2.8	0.7	0.0	0.0
135°	3.4	3.4	3.4	3.4	4.1	4.1	3.4	2.1	0.7	0.0	0.0
137.5°	2.8	2.8	2.8	3.4	3.4	3.4	2.8	1.4	0.7	0.0	0.0
140°	2.1	2.1	2.1	2.8	2.8	2.8	2.1	1.4	0.0	0.0	0.0
142.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.7	0.0	0.0	0.0
145°	1.4	1.4	1.4	2.1	2.1	2.1	1.4	0.7	0.0	0.0	0.0
147.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.0	0.0	0.0
150°	0.7	0.7	0.7	1.4	1.4	1.4	0.7	0.0	0.0	0.0	0.0
152.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.7	0.7	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)