

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: P691487

Luminaire Tested: **CRTK2-C016-D-U-T2-7040**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-1)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C016-D-U-T2-7040
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5895.1 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.08')
IES Classification: Type II - Short
BUG Rating: B1 - U3 - G2

Input Watts (W): 41.6
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: 24 FT

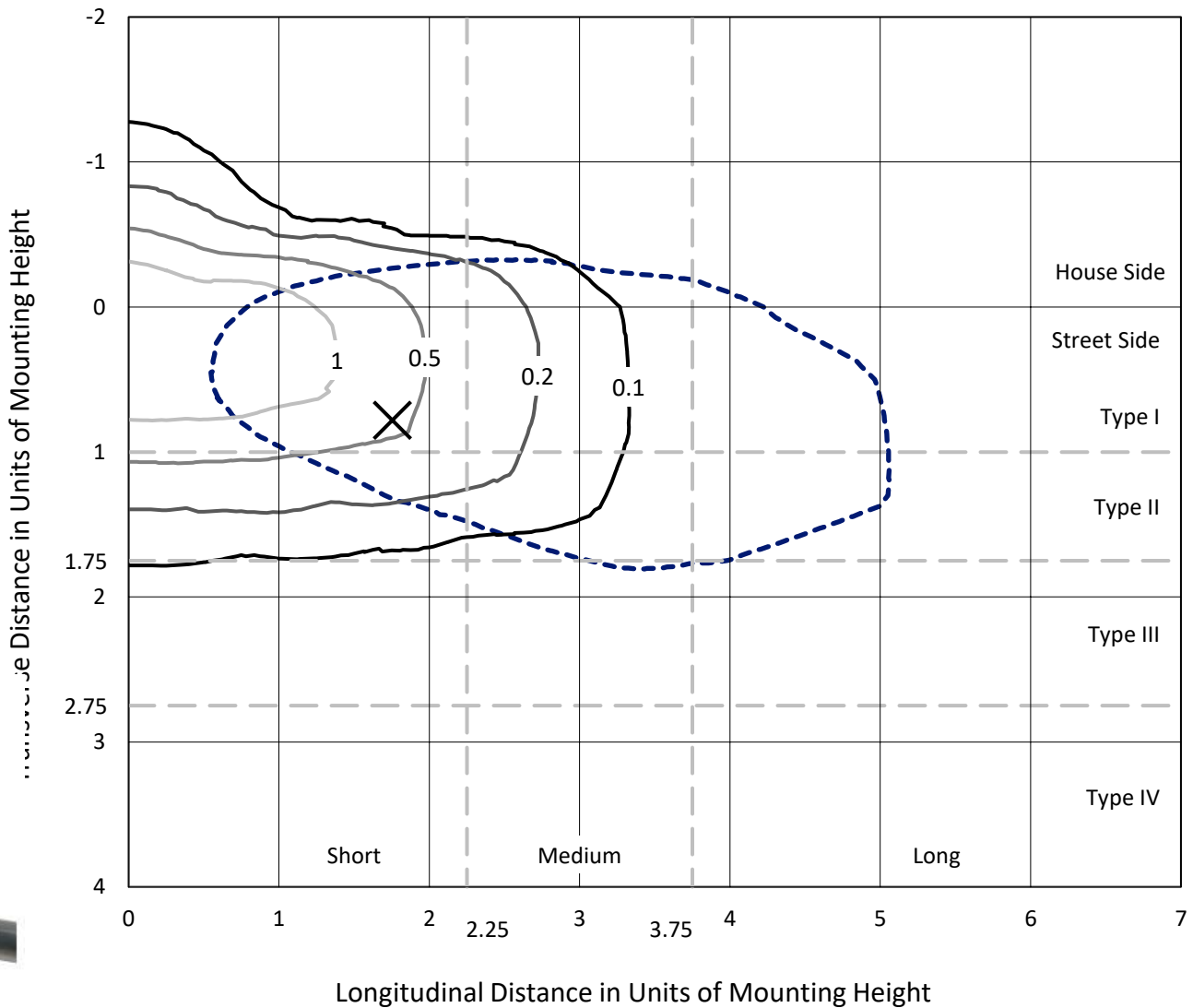


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Iso-Footcandle Lines of Horizontal Illumination

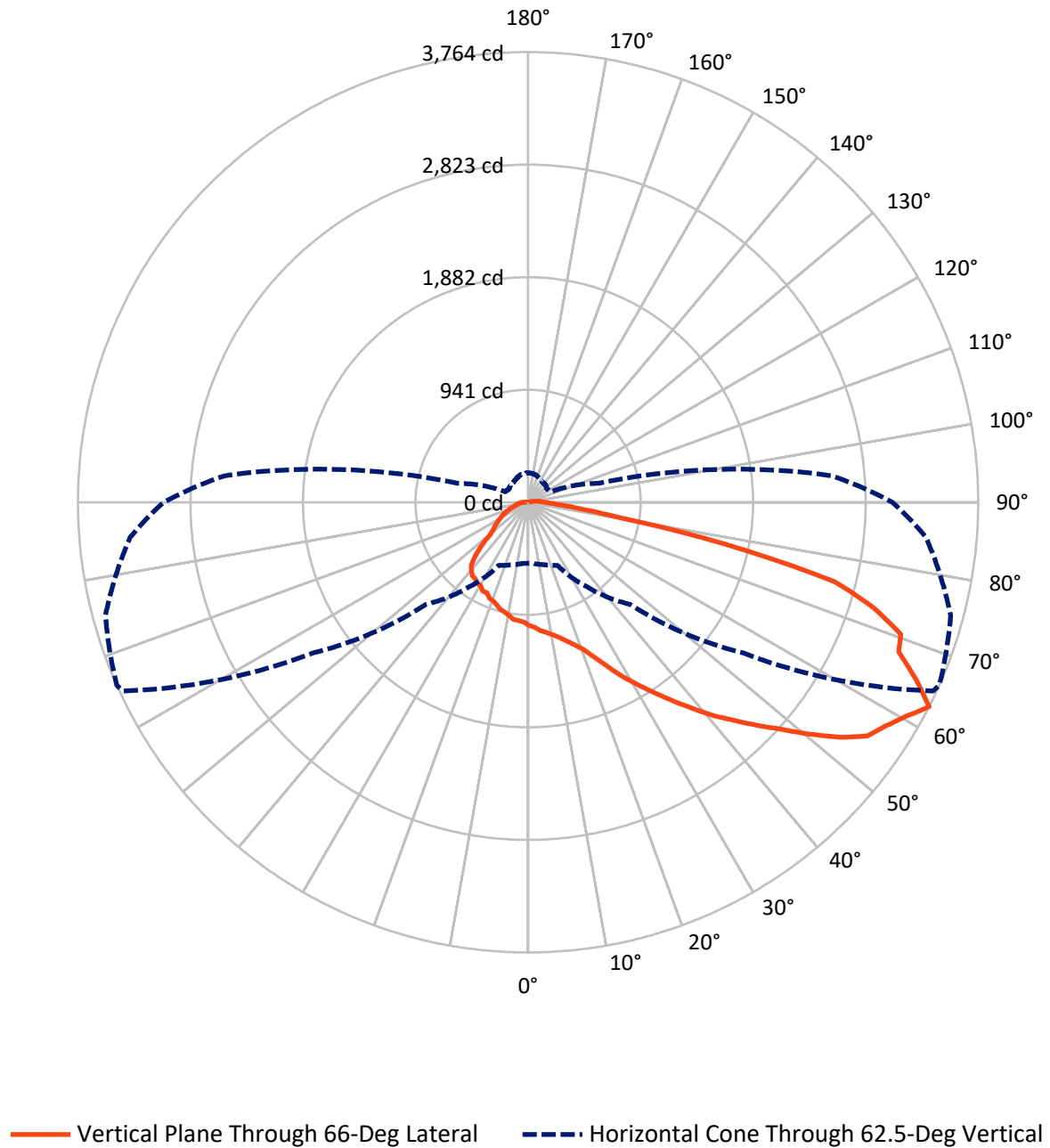
✕ Max cd
 - - - 1/2 Max cd



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



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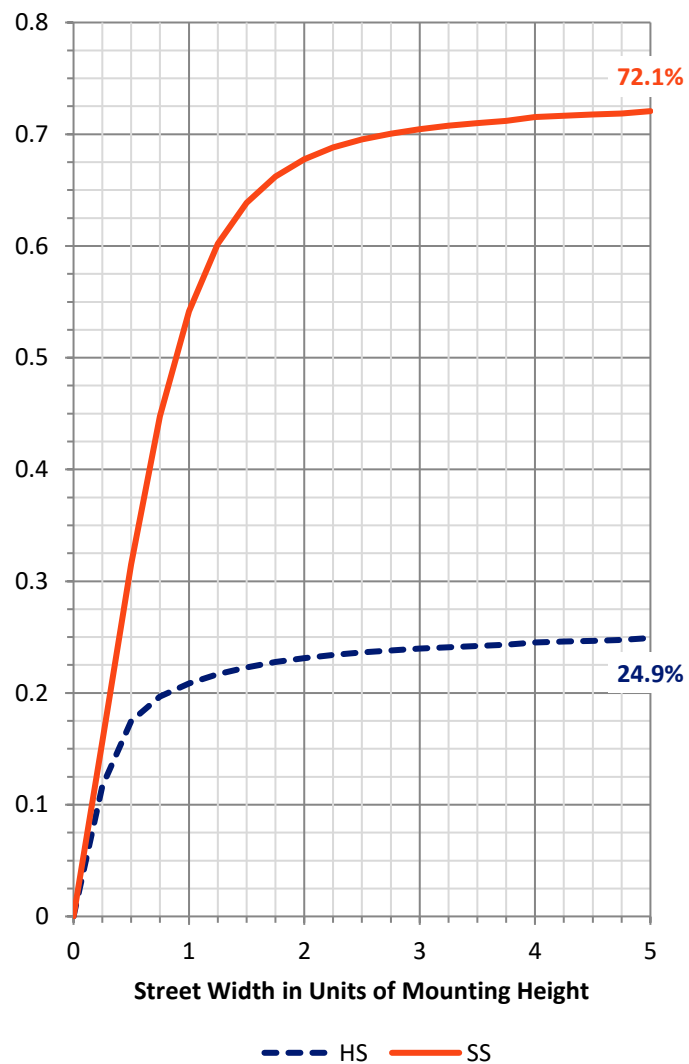
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1534.4	42.5	1576.9
	% Fixture	26.0	0.7	26.7
Street Side	Lumens	4276.2	42.0	4318.2
	% Fixture	72.5	0.7	73.3
Total	Lumens	5810.6	84.4	5895.1
	% Fixture	98.6	1.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	1.7
10°-20°	296.4	5.0
20°-30°	501.6	8.5
30°-40°	733.8	12.4
40°-50°	959.1	16.3
50°-60°	1116.1	18.9
60°-70°	1116.6	18.9
70°-80°	770.4	13.1
80°-90°	217.8	3.7
90°-100°	71.8	1.2
100°-110°	9.8	0.2
110°-120°	0.6	0.0
120°-130°	0.6	0.0
130°-140°	0.6	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°	5810.6	98.6
0°-180°	5895.1	100.0

Coefficient of Utilization



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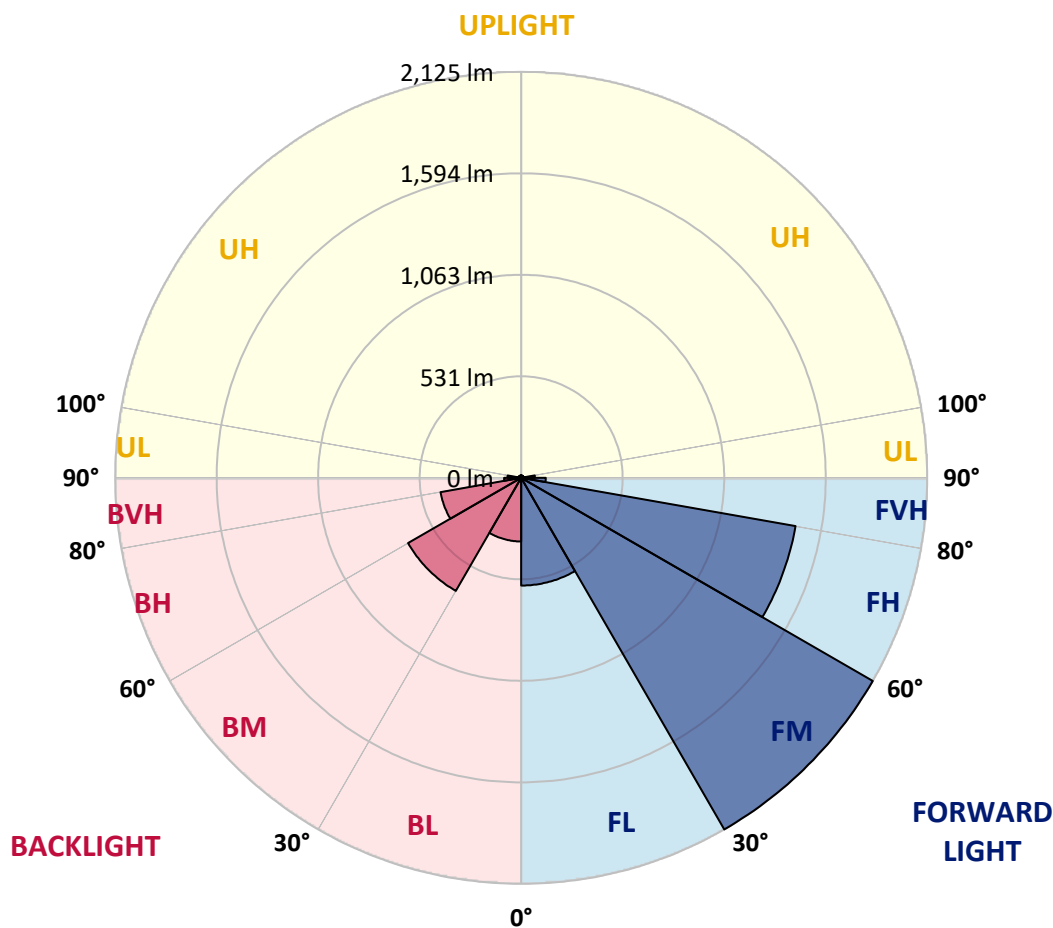
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	563.9	9.6			
FM	(30°-60°)	2125.3	36.1			
FH	(60°-80°)	1458.4	24.7			G1/1800
FVH	(80°-90°)	128.6	2.2			G2/225
BL	(0°-30°)	333.0	5.6	B1/500		
BM	(30°-60°)	683.7	11.6	B1/1000		
BH	(60°-80°)	428.6	7.3	B1/500		G1/500
BVH	(80°-90°)	89.1	1.5			G1/100
UL	(90°-100°)	71.8	1.2		U3/500	
UH	(100°-180°)	12.6	0.2		U2/50	

BUG Rating: B1-U3-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0
2.5°	1082.8	1080.9	1080.9	1071.1	1061.3	1059.3	1053.5	1045.6	1045.6	1039.8	1030.0
5°	1147.4	1145.5	1147.4	1133.7	1120.0	1108.3	1088.7	1078.9	1077.0	1063.2	1043.7
7.5°	1192.5	1190.5	1188.6	1176.8	1170.9	1159.2	1131.8	1102.4	1098.5	1084.8	1059.3
10°	1210.1	1212.1	1221.9	1202.3	1190.5	1180.7	1165.1	1129.8	1125.9	1094.6	1055.4
12.5°	1257.1	1259.1	1253.2	1229.7	1225.8	1217.9	1192.5	1163.1	1159.2	1120.0	1065.2
15°	1306.1	1306.1	1298.2	1284.5	1274.7	1266.9	1235.6	1204.2	1202.3	1155.3	1090.7
17.5°	1327.6	1331.5	1333.5	1315.8	1311.9	1310.0	1294.3	1255.1	1251.2	1206.2	1125.9
20°	1341.3	1343.3	1345.2	1343.3	1345.2	1343.3	1351.1	1319.8	1310.0	1263.0	1165.1
22.5°	1368.7	1372.6	1386.3	1386.3	1392.2	1405.9	1400.0	1404.0	1400.0	1343.3	1231.6
25°	1382.4	1388.3	1405.9	1427.5	1452.9	1468.6	1490.1	1505.8	1507.7	1456.8	1333.5
27.5°	1360.9	1374.6	1419.6	1452.9	1511.7	1552.8	1603.7	1629.1	1633.1	1584.1	1443.1
30°	1388.3	1388.3	1415.7	1462.7	1535.2	1631.1	1709.4	1748.6	1752.5	1715.3	1552.8
32.5°	1337.4	1349.1	1411.8	1501.9	1605.6	1715.3	1791.7	1868.0	1877.8	1866.1	1709.4
35°	1331.5	1337.4	1376.5	1470.5	1609.6	1793.6	1899.4	1999.2	2018.8	2022.7	1860.2
37.5°	1276.7	1284.5	1357.0	1474.5	1664.4	1848.4	1983.6	2148.0	2165.7	2193.1	1991.4
40°	1208.1	1219.9	1278.6	1409.8	1648.7	1913.1	2073.6	2304.7	2330.1	2363.4	2163.7
42.5°	1118.1	1139.6	1239.5	1380.5	1640.9	1934.6	2159.8	2461.3	2484.8	2520.1	2308.6
45°	1041.7	1047.6	1127.9	1274.7	1578.2	1964.0	2240.1	2637.6	2653.2	2670.9	2426.1
47.5°	973.2	984.9	1053.5	1190.5	1511.7	1958.1	2310.6	2804.0	2831.4	2884.3	2569.0
50°	769.5	796.9	990.8	1118.1	1409.8	1940.5	2369.3	2999.8	3044.8	3064.4	2731.6
52.5°	665.8	673.6	771.5	1047.6	1296.3	1881.7	2420.2	3213.2	3264.2	3219.1	2927.4
55°	614.8	622.7	667.7	904.6	1208.1	1762.3	2459.4	3414.9	3446.3	3340.5	3072.3
57.5°	587.4	593.3	616.8	732.3	1100.5	1572.4	2463.3	3514.8	3526.5	3436.5	3146.7
60°	540.4	546.3	587.4	638.3	981.0	1370.7	2394.8	3571.6	3632.3	3554.0	3289.6
62.5°	509.1	513.0	540.4	581.6	865.5	1206.2	2195.0	3734.1	3763.5	3657.7	3338.6
65°	469.9	473.9	499.3	536.5	791.1	1114.2	2108.9	3667.5	3559.8	3632.3	3403.2
67.5°	424.9	430.8	454.3	485.6	667.7	1024.1	1860.2	3418.8	3342.5	3503.0	3234.8
70°	383.8	387.7	413.2	430.8	548.3	906.6	1544.9	3225.0	3305.3	3303.3	3082.1
72.5°	338.8	342.7	364.2	379.9	458.2	767.6	1225.8	3001.8	3025.3	2941.1	2727.6
75°	291.8	293.7	313.3	329.0	376.0	614.8	894.9	2482.9	2645.4	2811.8	2359.5
77.5°	235.0	240.8	256.5	264.3	301.5	491.5	583.5	1470.5	1680.1	2473.1	2108.9
80°	176.2	176.2	188.0	191.9	223.2	366.2	368.1	708.8	761.7	1572.4	1566.5
82.5°	111.6	117.5	129.2	127.3	150.8	209.5	233.0	393.6	423.0	622.7	695.1
85°	90.1	92.0	99.9	94.0	99.9	113.6	131.2	248.7	258.5	379.9	377.9
87.5°	74.4	76.4	82.2	78.3	80.3	86.2	101.8	166.4	170.4	244.8	252.6
90°	56.8	58.7	66.6	64.6	62.7	70.5	84.2	127.3	133.2	193.9	207.6
92.5°	37.2	37.2	43.1	43.1	43.1	50.9	74.4	97.9	101.8	176.2	186.0
95°	27.4	27.4	29.4	31.3	29.4	37.2	54.8	88.1	95.9	164.5	160.6
97.5°	17.6	17.6	19.6	21.5	19.6	23.5	31.3	62.7	70.5	127.3	125.3
100°	11.7	11.7	11.7	11.7	11.7	11.7	17.6	41.1	47.0	80.3	78.3
102.5°	7.8	7.8	7.8	7.8	5.9	5.9	7.8	19.6	21.5	43.1	41.1
105°	2.0	2.0	3.9	3.9	3.9	2.0	2.0	7.8	9.8	17.6	17.6
107.5°	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0
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	0.0
125°	0.0	0.0	0.0	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	2.0
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	2.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
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	2.0	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	2.0	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°	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0
2.5°	1026.0	1020.2	1010.4	1000.6	994.7	988.8	979.1	971.2	971.2	981.0	981.0
5°	1030.0	1018.2	998.6	990.8	981.0	967.3	951.6	939.9	934.0	941.8	943.8
7.5°	1039.8	1022.1	1002.5	984.9	951.6	926.2	912.5	896.8	894.9	902.7	906.6
10°	1031.9	1014.3	990.8	957.5	922.3	902.7	877.2	857.6	857.6	851.8	855.7
12.5°	1039.8	1016.3	969.3	934.0	902.7	859.6	828.3	808.7	806.7	812.6	812.6
15°	1059.3	1024.1	963.4	920.3	869.4	826.3	795.0	773.5	779.3	767.6	769.5
17.5°	1082.8	1030.0	963.4	889.0	832.2	791.1	748.0	722.5	724.5	726.5	728.4
20°	1112.2	1045.6	953.6	865.5	796.9	738.2	689.3	669.7	663.8	667.7	669.7
22.5°	1157.2	1080.9	949.7	853.7	748.0	691.2	648.1	609.0	605.1	605.1	605.1
25°	1231.6	1133.7	967.3	814.6	722.5	636.4	587.4	550.2	532.6	534.6	536.5
27.5°	1345.2	1217.9	984.9	816.5	663.8	587.4	526.7	485.6	475.8	477.8	479.7
30°	1464.7	1331.5	1030.0	777.4	630.5	513.0	450.4	421.0	409.2	403.4	405.3
32.5°	1556.7	1431.4	1092.6	765.6	569.8	432.7	393.6	370.1	354.4	348.5	348.5
35°	1703.5	1529.3	1143.5	736.2	507.1	381.8	350.5	325.0	317.2	313.3	313.3
37.5°	1828.9	1637.0	1196.4	724.5	430.8	342.7	303.5	287.8	287.8	283.9	282.0
40°	1964.0	1750.5	1225.8	689.3	372.0	301.5	262.4	260.4	266.3	266.3	266.3
42.5°	2126.5	1868.0	1257.1	648.1	327.0	254.6	233.0	248.7	262.4	266.3	266.3
45°	2247.9	1942.4	1270.8	560.0	282.0	221.3	229.1	244.8	262.4	268.3	266.3
47.5°	2351.7	2050.1	1251.2	452.3	242.8	215.4	225.2	238.9	260.4	268.3	268.3
50°	2455.5	2142.2	1237.5	327.0	227.1	215.4	225.2	231.1	254.6	264.3	264.3
52.5°	2608.2	2214.6	1182.7	274.1	215.4	217.3	229.1	229.1	250.6	262.4	268.3
55°	2804.0	2381.1	1078.9	256.5	211.5	215.4	231.1	231.1	246.7	258.5	262.4
57.5°	2884.3	2439.8	900.7	240.8	207.6	215.4	225.2	229.1	248.7	256.5	254.6
60°	2990.0	2535.7	738.2	225.2	199.7	211.5	217.3	231.1	246.7	248.7	246.7
62.5°	3046.8	2547.5	610.9	209.5	193.9	205.6	207.6	223.2	238.9	244.8	246.7
65°	3078.1	2535.7	452.3	193.9	188.0	197.8	199.7	213.4	229.1	233.0	235.0
67.5°	2964.6	2455.5	313.3	178.2	182.1	188.0	191.9	205.6	217.3	229.1	233.0
70°	2760.9	2222.4	223.2	158.6	172.3	178.2	186.0	199.7	211.5	227.1	231.1
72.5°	2535.7	1789.7	164.5	135.1	158.6	166.4	180.1	189.9	207.6	227.1	233.0
75°	2324.3	1570.4	131.2	115.5	135.1	152.7	170.4	184.1	209.5	278.1	287.8
77.5°	1648.7	1061.3	117.5	101.8	115.5	133.2	156.6	180.1	291.8	330.9	332.9
80°	1196.4	624.6	105.7	90.1	99.9	107.7	142.9	221.3	323.1	305.5	305.5
82.5°	599.2	334.8	99.9	80.3	86.2	88.1	127.3	282.0	260.4	272.2	274.1
85°	289.8	162.5	82.2	70.5	74.4	72.4	119.4	268.3	246.7	248.7	244.8
87.5°	182.1	99.9	64.6	58.7	60.7	58.7	113.6	256.5	258.5	211.5	215.4
90°	164.5	117.5	50.9	47.0	41.1	49.0	101.8	238.9	252.6	152.7	127.3
92.5°	158.6	127.3	37.2	33.3	29.4	39.2	76.4	193.9	154.7	64.6	39.2
95°	141.0	111.6	31.3	23.5	27.4	33.3	49.0	129.2	103.8	0.0	0.0
97.5°	105.7	82.2	25.5	15.7	88.1	29.4	27.4	84.2	29.4	0.0	0.0
100°	66.6	50.9	19.6	11.7	99.9	19.6	17.6	49.0	0.0	0.0	0.0
102.5°	37.2	27.4	9.8	7.8	43.1	9.8	11.7	11.7	0.0	0.0	0.0
105°	15.7	13.7	3.9	3.9	3.9	2.0	5.9	0.0	0.0	0.0	0.0
107.5°	3.9	5.9	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
110°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P691487

CATALOG NUMBER: CRTK2-C016-D-U-T2-7040

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
115°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
117.5°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
120°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
122.5°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
125°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
127.5°	2.0	2.0	2.0	3.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0
130°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
132.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0
135°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0
137.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0
140°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0
142.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0
145°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0
147.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0
150°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0
152.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0
155°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0
157.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0
160°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0
162.5°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
165°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
167.5°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	2.0	2.0	2.0	2.0	2.0	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)