

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: P691469

Luminaire Tested: **CRTK2-C016-5TLD-U-T5R-8027-U0-DS-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-30)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C016-5TLD-U-T5R-8027-U0-DS-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K LED WITH TYPE V ROUND OPTIC AND U0 SHIELD WITH HOUSE
SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3613 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U1 - 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



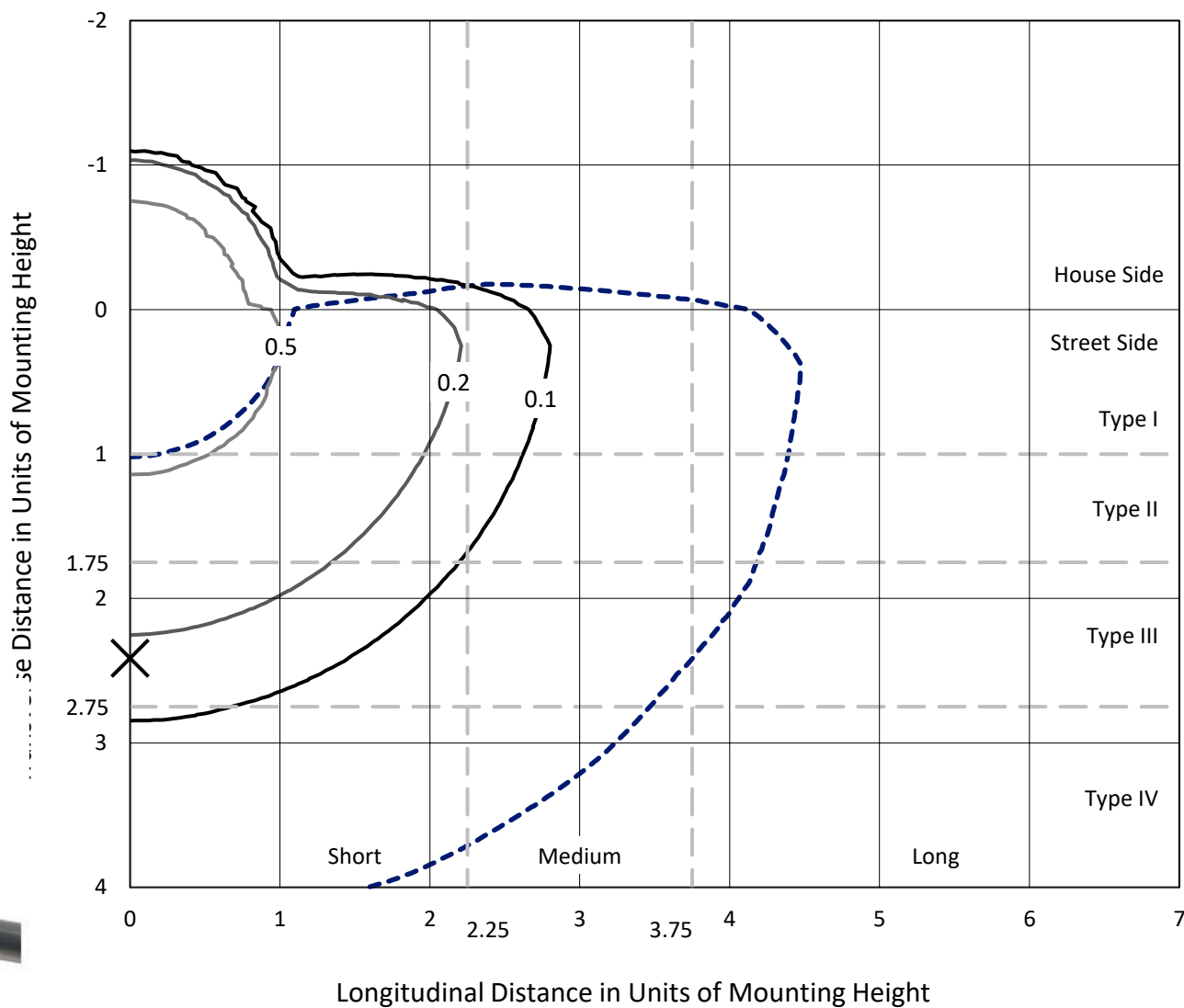
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

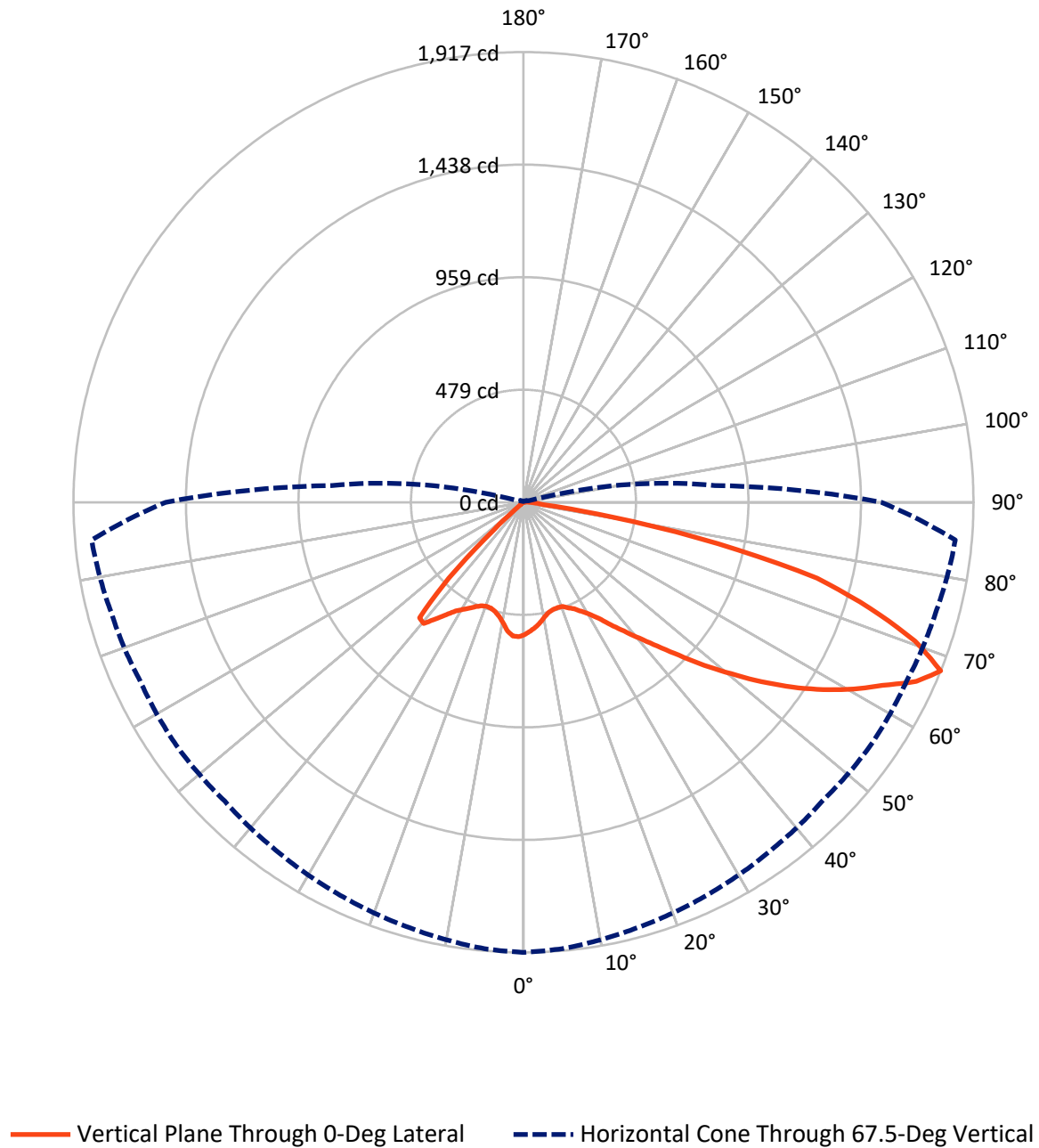


Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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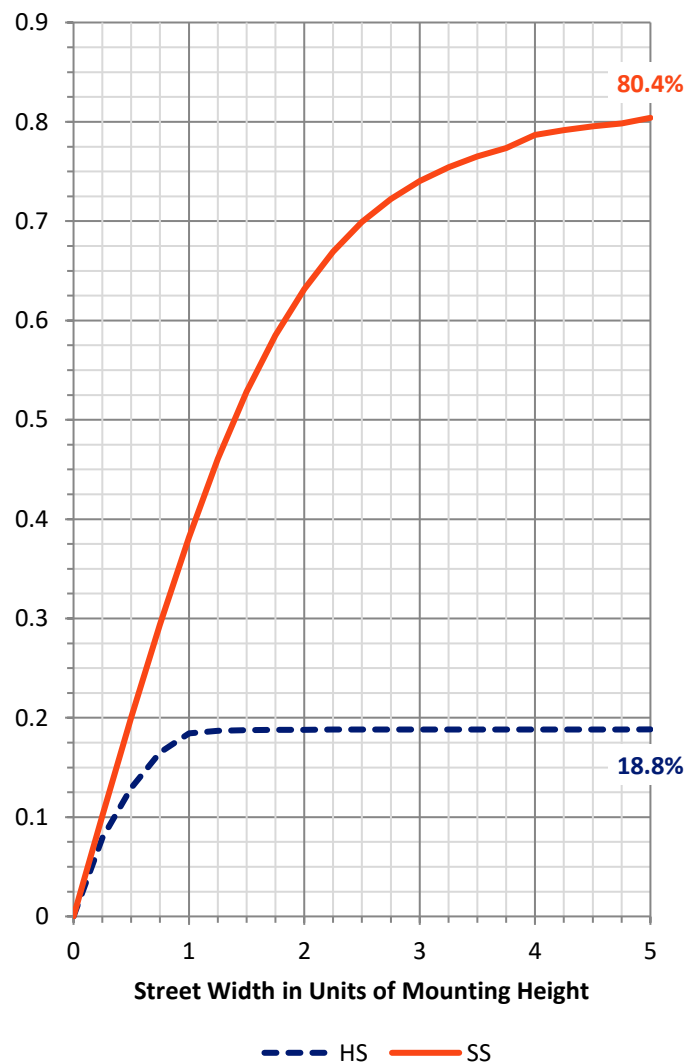
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	684.2	1.3	685.5
	% Fixture	18.9	0.0	19.0
Street Side	Lumens	2919.3	8.2	2927.5
	% Fixture	80.8	0.2	81.0
Total	Lumens	3603.5	9.5	3613.0
	% Fixture	99.7	0.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	1.4
10°-20°	132.6	3.7
20°-30°	227.5	6.3
30°-40°	384.6	10.6
40°-50°	513.2	14.2
50°-60°	651.6	18.0
60°-70°	912.4	25.3
70°-80°	660.8	18.3
80°-90°	70.4	1.9
90°-100°	7.9	0.2
100°-110°	0.8	0.0
110°-120°	0.3	0.0
120°-130°	0.2	0.0
130°-140°	0.1	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.1	0.0
170°-180°	0.1	0.0
0°-90°	3603.5	99.7
0°-180°	3613.0	100.0

Coefficient of Utilization



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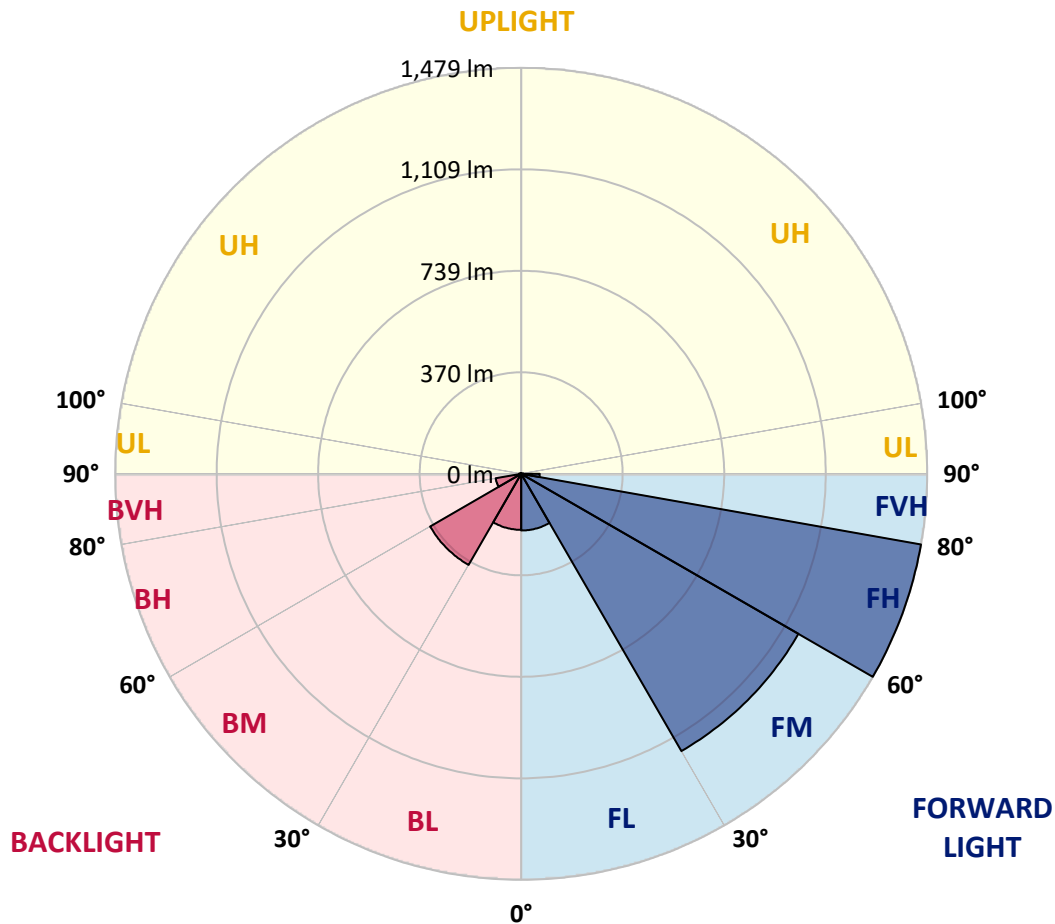
CATALOG NUMBER: CRTK2-C016-5TLD-U-T5R-8027-U0-DS-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	206.5	5.7			
FM	(30°-60°)	1166.2	32.3			
FH	(60°-80°)	1478.8	40.9			G1/1800
FVH	(80°-90°)	67.8	1.9			G1/100
BL	(0°-30°)	204.0	5.6	B1/500		
BM	(30°-60°)	383.2	10.6	B1/1000		
BH	(60°-80°)	94.5	2.6	B0/110		G0/110
BVH	(80°-90°)	2.6	0.1			G0/10
UL	(90°-100°)	7.9	0.2		U1/10	
UH	(100°-180°)	1.6	0.0		U1/10	

BUG Rating: B1-U1-G1

Type IV Short



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CATALOG NUMBER: CRTK2-C016-5TLD-U-T5R-8027-U0-DS-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	563.8	563.8	563.8	563.8	563.8	563.8	563.8	563.8	563.8	563.8	563.8
2.5°	549.3	551.1	551.1	551.1	552.9	551.1	551.1	551.1	551.1	552.9	552.9
5°	534.8	534.8	534.8	536.7	536.7	534.8	533.0	534.8	534.8	536.7	536.7
7.5°	516.8	516.8	516.8	518.6	516.8	513.2	509.5	511.4	509.5	511.4	513.2
10°	495.1	496.9	496.9	495.1	493.3	487.9	482.4	484.3	482.4	484.3	484.3
12.5°	480.6	482.4	482.4	480.6	475.2	471.6	468.0	464.4	462.6	466.2	464.4
15°	473.4	475.2	475.2	473.4	469.8	466.2	459.0	457.1	453.5	451.7	453.5
17.5°	471.6	471.6	471.6	469.8	466.2	460.8	457.1	453.5	451.7	451.7	449.9
20°	473.4	477.0	475.2	473.4	469.8	466.2	460.8	455.3	455.3	455.3	453.5
22.5°	487.9	487.9	486.1	486.1	482.4	477.0	471.6	468.0	464.4	464.4	464.4
25°	502.3	504.1	504.1	502.3	496.9	489.7	487.9	482.4	480.6	478.8	477.0
27.5°	525.8	524.0	525.8	525.8	518.6	515.0	509.5	505.9	504.1	500.5	498.7
30°	552.9	552.9	552.9	552.9	547.5	540.3	536.7	531.2	525.8	525.8	522.2
32.5°	589.1	590.9	590.9	589.1	583.6	576.4	572.8	565.6	563.8	560.1	556.5
35°	639.6	639.6	639.6	636.0	628.8	623.4	619.8	614.3	612.5	607.1	598.1
37.5°	695.7	695.7	699.3	695.7	688.4	681.2	675.8	672.2	666.7	663.1	657.7
40°	760.7	760.7	762.5	757.1	749.9	746.3	740.8	733.6	730.0	728.2	717.3
42.5°	836.6	840.2	840.2	834.8	829.4	824.0	816.7	811.3	807.7	800.5	786.0
45°	928.8	926.9	930.6	925.1	921.5	919.7	908.9	896.2	898.0	881.8	865.5
47.5°	1037.2	1039.0	1037.2	1031.7	1028.1	1026.3	1015.5	999.2	992.0	979.3	948.6
50°	1147.4	1149.2	1147.4	1143.8	1147.4	1136.5	1123.9	1109.4	1107.6	1091.4	1044.4
52.5°	1268.5	1263.0	1261.2	1259.4	1255.8	1250.4	1237.7	1221.5	1223.3	1205.2	1131.1
55°	1389.5	1384.1	1375.1	1371.4	1367.8	1358.8	1348.0	1342.5	1340.7	1322.7	1223.3
57.5°	1505.2	1496.1	1483.5	1481.7	1476.2	1463.6	1458.2	1449.1	1449.1	1429.3	1290.1
60°	1615.4	1604.5	1590.1	1582.9	1573.8	1563.0	1561.2	1555.7	1557.6	1546.7	1362.4
62.5°	1716.6	1707.5	1689.5	1678.6	1664.2	1655.1	1656.9	1653.3	1660.5	1653.3	1425.7
65°	1839.4	1828.6	1806.9	1783.4	1763.5	1749.1	1743.7	1754.5	1785.2	1792.5	1510.6
67.5°	1917.1	1908.1	1875.6	1846.7	1819.6	1799.7	1805.1	1801.5	1817.8	1846.7	1525.0
70°	1770.8	1767.2	1734.6	1716.6	1696.7	1676.8	1678.6	1673.2	1685.8	1693.1	1398.5
72.5°	1544.9	1563.0	1521.4	1519.6	1507.0	1508.8	1488.9	1503.3	1494.3	1494.3	1237.7
75°	1291.9	1254.0	1241.3	1272.1	1254.0	1255.8	1252.2	1268.5	1266.6	1268.5	1076.9
77.5°	847.4	854.7	838.4	870.9	887.2	914.3	926.9	970.3	954.0	950.4	852.9
80°	379.5	388.5	390.3	421.0	440.9	468.0	459.0	489.7	469.8	437.3	417.4
82.5°	84.9	84.9	95.8	122.9	130.1	135.5	135.5	140.9	112.0	68.7	56.0
85°	57.8	56.0	75.9	103.0	108.4	104.8	101.2	94.0	65.0	19.9	16.3
87.5°	37.9	39.8	61.4	84.9	88.5	83.1	77.7	70.5	47.0	5.4	3.6
90°	25.3	28.9	47.0	65.0	65.0	61.4	56.0	47.0	28.9	1.8	1.8
92.5°	12.6	14.5	23.5	28.9	27.1	23.5	21.7	18.1	10.8	1.8	1.8
95°	7.2	7.2	10.8	10.8	10.8	9.0	9.0	7.2	3.6	1.8	1.8
97.5°	5.4	5.4	7.2	7.2	5.4	5.4	5.4	3.6	1.8	1.8	1.8
100°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8
102.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
105°	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	1.8
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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CATALOG NUMBER: CRTK2-C016-5TLD-U-T5R-8027-U0-DS-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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	1.8
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	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	1.8
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	1.8	1.8
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	1.8	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	1.8	1.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	0.0	1.8	1.8
175°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
177.5°	0.0	0.0	0.0	0.0	0.0	1.8	0.0	1.8	1.8	1.8	1.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	563.8	563.8	563.8	563.8	563.8	563.8	563.8	563.8	563.8	563.8
2.5°	554.7	556.5	558.3	561.9	561.9	567.4	569.2	571.0	572.8	572.8
5°	540.3	542.1	547.5	551.1	556.5	560.1	565.6	567.4	569.2	571.0
7.5°	513.2	516.8	522.2	524.0	531.2	536.7	542.1	547.5	549.3	552.9
10°	486.1	487.9	489.7	495.1	498.7	505.9	513.2	516.8	520.4	520.4
12.5°	466.2	468.0	469.8	471.6	477.0	480.6	487.9	491.5	493.3	496.9
15°	453.5	453.5	457.1	457.1	460.8	466.2	469.8	475.2	477.0	480.6
17.5°	449.9	449.9	451.7	453.5	457.1	459.0	462.6	468.0	469.8	471.6
20°	451.7	453.5	453.5	455.3	459.0	460.8	464.4	466.2	468.0	469.8
22.5°	460.8	459.0	460.8	460.8	462.6	466.2	469.8	473.4	475.2	475.2
25°	473.4	471.6	471.6	475.2	477.0	478.8	484.3	486.1	487.9	487.9
27.5°	495.1	493.3	495.1	495.1	496.9	496.9	502.3	502.3	504.1	505.9
30°	516.8	511.4	511.4	511.4	513.2	516.8	518.6	522.2	524.0	524.0
32.5°	549.3	538.5	536.7	538.5	538.5	540.3	545.7	543.9	547.5	545.7
35°	590.9	580.0	576.4	576.4	576.4	576.4	581.8	578.2	581.8	580.0
37.5°	641.5	627.0	625.2	625.2	621.6	623.4	625.2	621.6	619.8	621.6
40°	695.7	670.4	668.6	670.4	670.4	670.4	670.4	668.6	666.7	668.6
42.5°	670.4	569.2	581.8	599.9	618.0	639.6	645.1	659.5	661.3	661.3
45°	585.4	328.9	346.9	374.0	384.9	392.1	412.0	442.7	451.7	453.5
47.5°	516.8	110.2	117.4	128.3	146.4	155.4	157.2	178.9	187.9	169.8
50°	511.4	25.3	18.1	18.1	19.9	16.3	16.3	18.1	18.1	18.1
52.5°	558.3	23.5	16.3	14.5	14.5	14.5	12.6	14.5	14.5	14.5
55°	607.1	23.5	16.3	14.5	14.5	14.5	12.6	12.6	12.6	12.6
57.5°	646.9	23.5	16.3	14.5	14.5	12.6	10.8	10.8	10.8	10.8
60°	693.9	23.5	16.3	14.5	14.5	10.8	9.0	9.0	9.0	9.0
62.5°	733.6	25.3	16.3	14.5	12.6	9.0	9.0	9.0	9.0	9.0
65°	791.4	25.3	16.3	12.6	9.0	7.2	7.2	7.2	7.2	7.2
67.5°	818.5	25.3	14.5	10.8	7.2	5.4	5.4	5.4	5.4	5.4
70°	737.2	19.9	10.8	7.2	5.4	5.4	5.4	5.4	5.4	5.4
72.5°	630.6	14.5	7.2	5.4	3.6	3.6	3.6	3.6	3.6	1.8
75°	502.3	9.0	3.6	1.8	1.8	0.0	0.0	0.0	0.0	0.0
77.5°	352.3	7.2	3.6	1.8	1.8	0.0	0.0	0.0	0.0	0.0
80°	146.4	5.4	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	21.7	3.6	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.2	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
90°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: CRTK2-C016-5TLD-U-T5R-8027-U0-DS-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.8	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	1.8	1.8	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

(END OF REPORT)