

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: P691554

Luminaire Tested: **CRTK2-C016-D-U-T5R-7050-U0-DS-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691554
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-D-U-T5R-7050-U0-DS-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K LED WITH TYPE V ROUND OPTIC AND UO SHIELD WITH HOUSE
SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3961 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U1 - G1

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

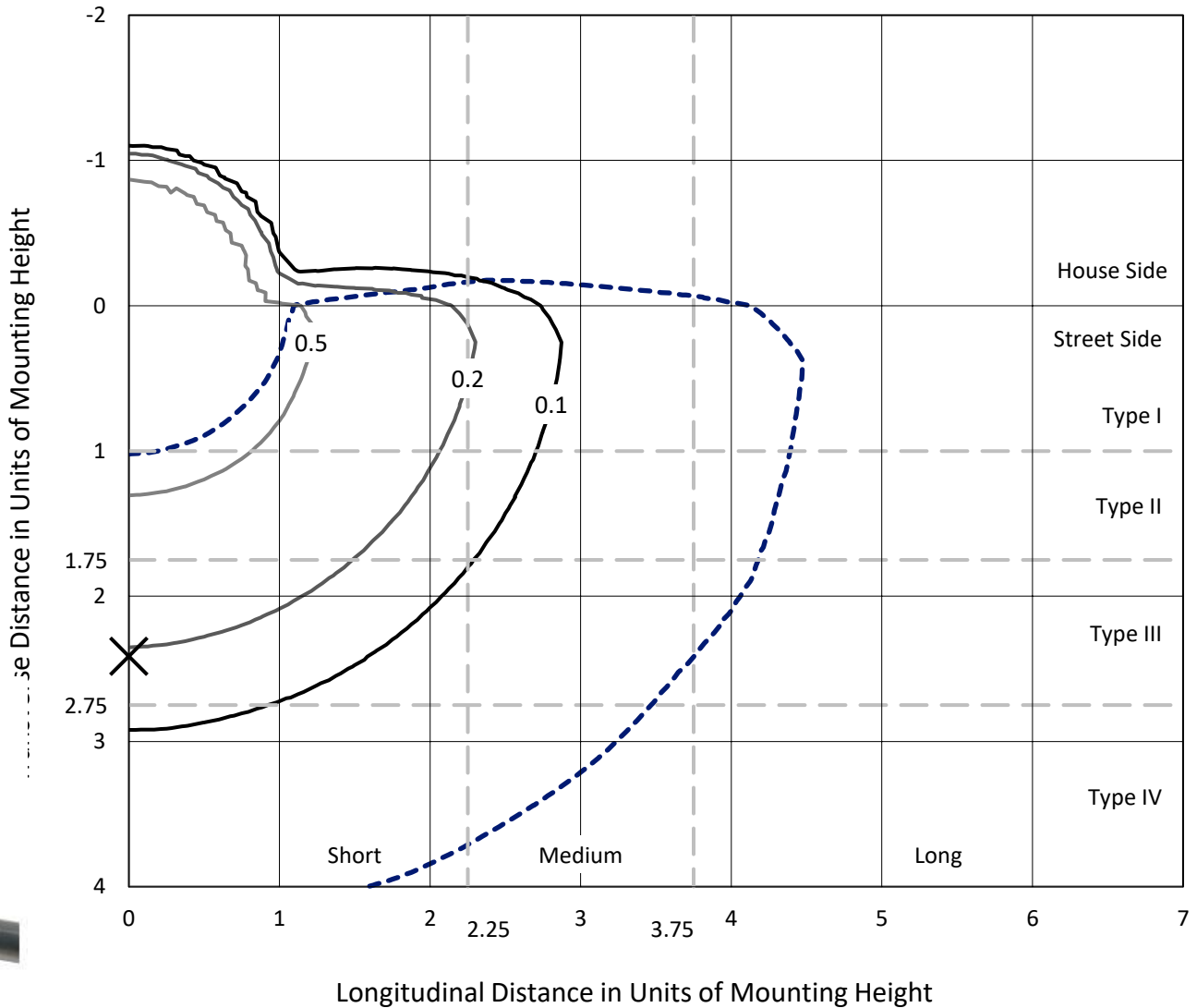


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Iso-Footcandle Lines of Horizontal Illumination

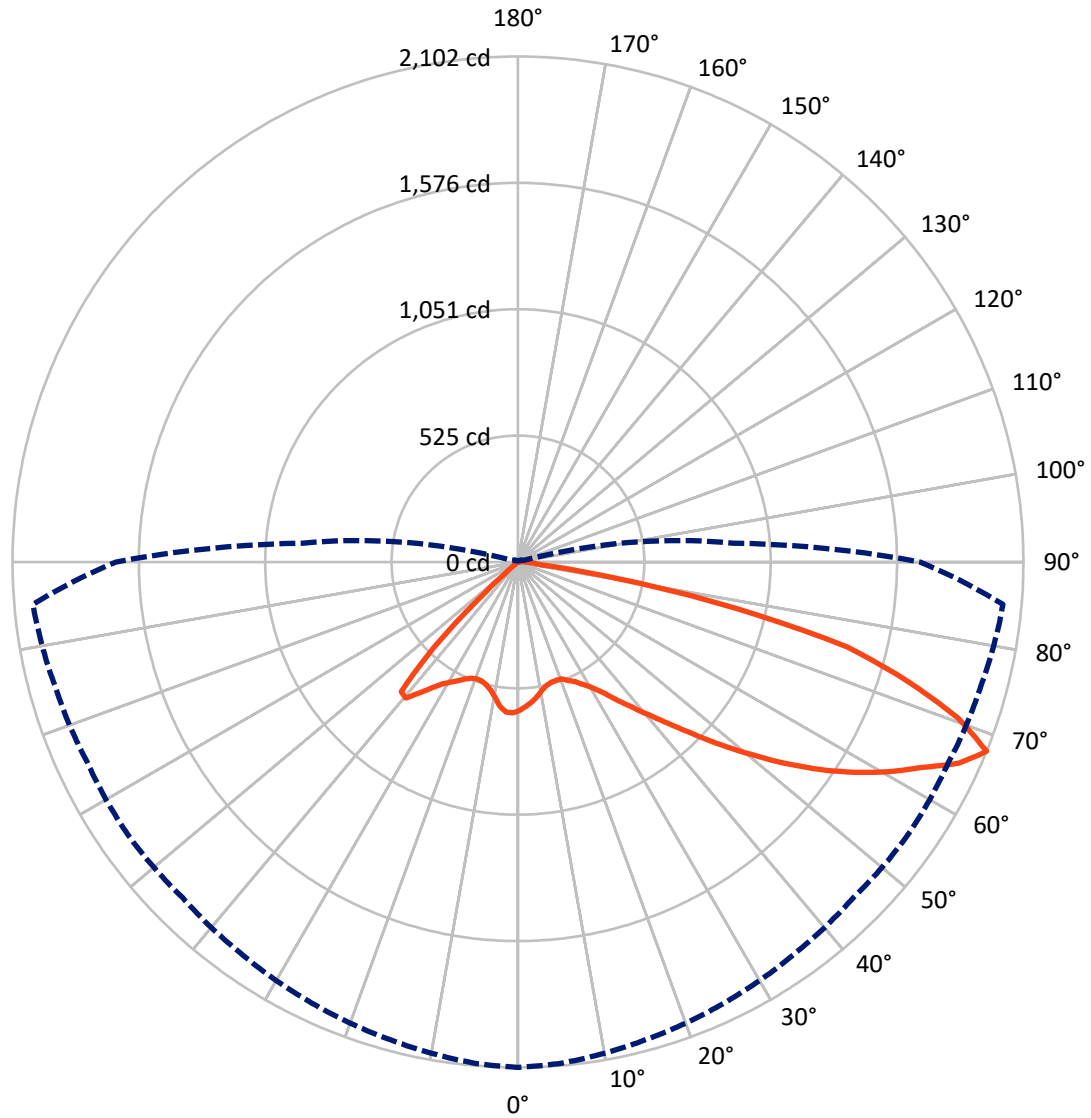
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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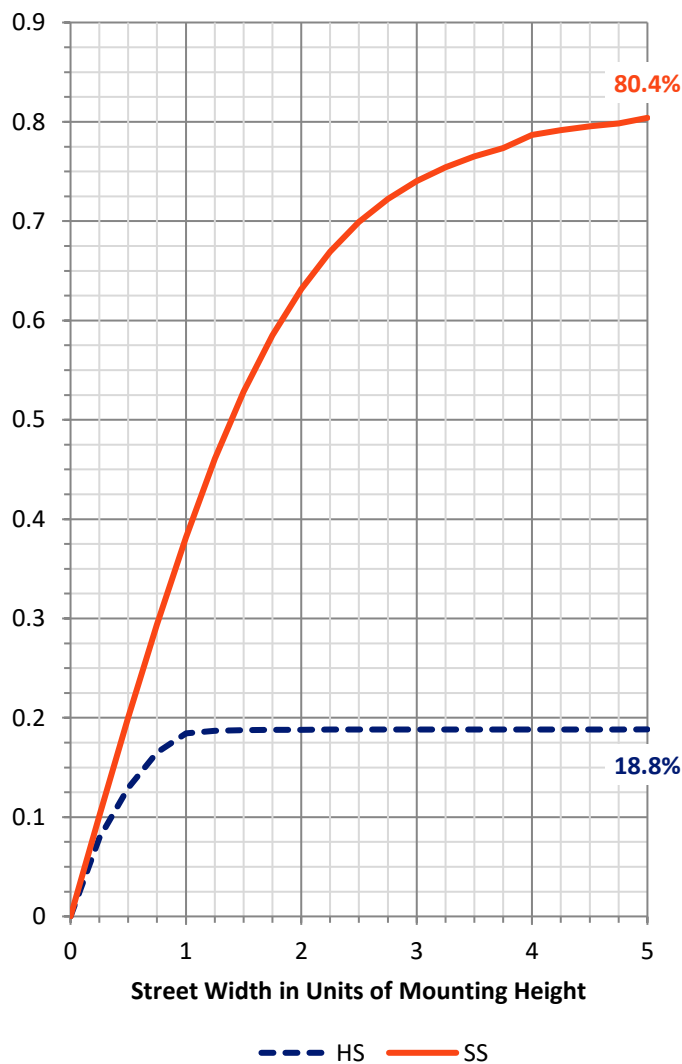
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	750.1	1.4	751.6
	% Fixture	18.9	0.0	19.0
Street Side	Lumens	3200.5	9.0	3209.5
	% Fixture	80.8	0.2	81.0
Total	Lumens	3950.6	10.4	3961.0
	% Fixture	99.7	0.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	1.4
10°-20°	145.4	3.7
20°-30°	249.4	6.3
30°-40°	421.6	10.6
40°-50°	562.6	14.2
50°-60°	714.3	18.0
60°-70°	1000.3	25.3
70°-80°	724.5	18.3
80°-90°	77.2	1.9
90°-100°	8.7	0.2
100°-110°	0.9	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°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.1	0.0
0°-90°	3950.6	99.7
0°-180°	3961.0	100.0

Coefficient of Utilization



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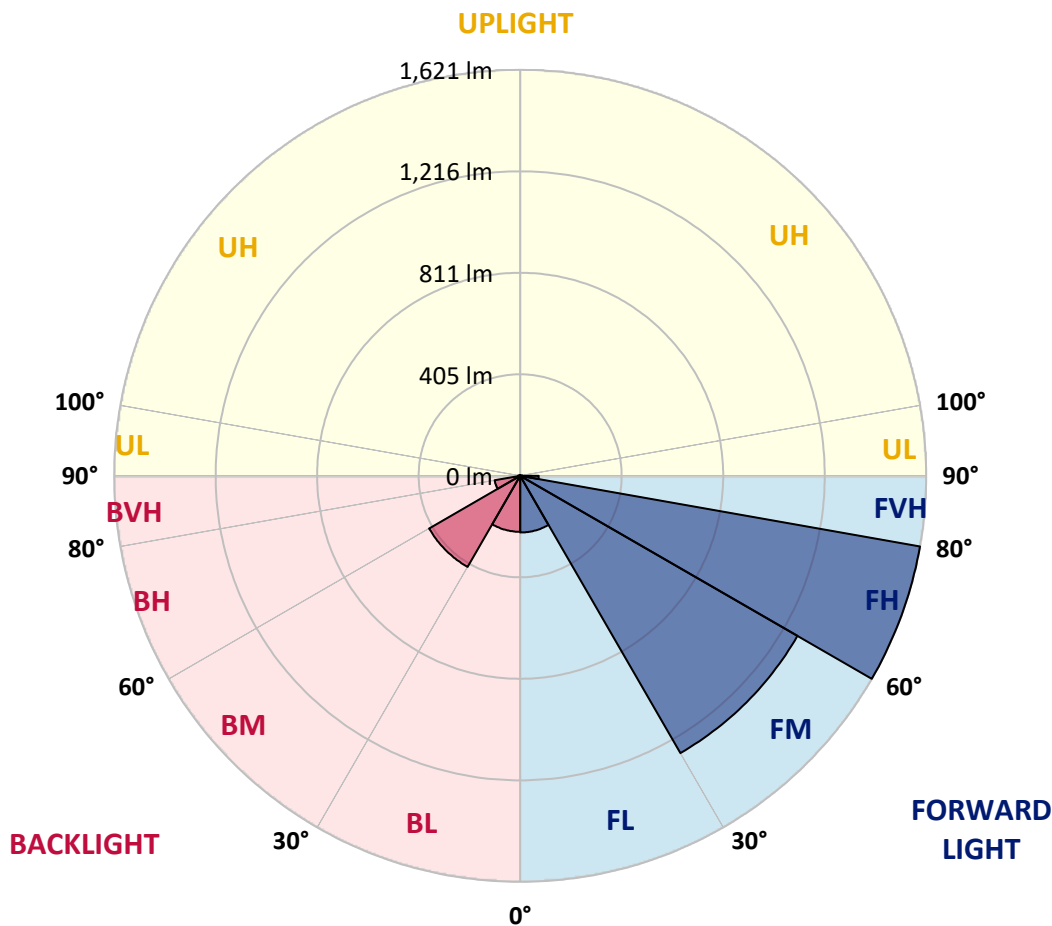
CATALOG NUMBER: CRTK2-C016-D-U-T5R-7050-U0-DS-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	226.4	5.7			
FM (30°-60°)	1278.5	32.3			
FH (60°-80°)	1621.3	40.9			G1/1800
FVH (80°-90°)	74.3	1.9			G1/100
BL (0°-30°)	223.6	5.6	B1/500		
BM (30°-60°)	420.0	10.6	B1/1000		
BH (60°-80°)	103.6	2.6	B0/110		G0/110
BVH (80°-90°)	2.9	0.1			G0/10
UL (90°-100°)	8.7	0.2		U1/10	
UH (100°-180°)	1.8	0.0		U1/10	

BUG Rating: B1-U1-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1
2.5°	602.2	604.2	604.2	604.2	606.2	604.2	604.2	604.2	604.2	606.2	606.2
5°	586.4	586.4	586.4	588.3	588.3	586.4	584.4	586.4	586.4	588.3	588.3
7.5°	566.6	566.6	566.6	568.5	566.6	562.6	558.6	560.6	558.6	560.6	562.6
10°	542.8	544.8	544.8	542.8	540.8	534.9	528.9	530.9	528.9	530.9	530.9
12.5°	526.9	528.9	528.9	526.9	521.0	517.0	513.1	509.1	507.1	511.1	509.1
15°	519.0	521.0	521.0	519.0	515.0	511.1	503.2	501.2	497.2	495.2	497.2
17.5°	517.0	517.0	517.0	515.0	511.1	505.1	501.2	497.2	495.2	495.2	493.3
20°	519.0	523.0	521.0	519.0	515.0	511.1	505.1	499.2	499.2	499.2	497.2
22.5°	534.9	534.9	532.9	532.9	528.9	523.0	517.0	513.1	509.1	509.1	509.1
25°	550.7	552.7	552.7	550.7	544.8	536.8	534.9	528.9	526.9	525.0	523.0
27.5°	576.5	574.5	576.5	576.5	568.5	564.6	558.6	554.7	552.7	548.7	546.7
30°	606.2	606.2	606.2	606.2	600.2	592.3	588.3	582.4	576.5	576.5	572.5
32.5°	645.8	647.8	647.8	645.8	639.8	631.9	628.0	620.0	618.1	614.1	610.1
35°	701.3	701.3	701.3	697.3	689.4	683.4	679.5	673.5	671.5	665.6	655.7
37.5°	762.7	762.7	766.6	762.7	754.7	746.8	740.9	736.9	731.0	727.0	721.1
40°	834.0	834.0	836.0	830.0	822.1	818.1	812.2	804.3	800.3	798.3	786.4
42.5°	917.2	921.1	921.1	915.2	909.3	903.3	895.4	889.4	885.5	877.6	861.7
45°	1018.2	1016.2	1020.2	1014.2	1010.3	1008.3	996.4	982.6	984.5	966.7	948.9
47.5°	1137.1	1139.0	1137.1	1131.1	1127.2	1125.2	1113.3	1095.5	1087.5	1073.7	1040.0
50°	1257.9	1259.9	1257.9	1253.9	1257.9	1246.0	1232.1	1216.3	1214.3	1196.5	1145.0
52.5°	1390.6	1384.7	1382.7	1380.7	1376.8	1370.8	1356.9	1339.1	1341.1	1321.3	1240.1
55°	1523.3	1517.4	1507.5	1503.5	1499.6	1489.7	1477.8	1471.8	1469.9	1450.1	1341.1
57.5°	1650.1	1640.2	1626.4	1624.4	1618.4	1604.6	1598.6	1588.7	1588.7	1566.9	1414.4
60°	1771.0	1759.1	1743.2	1735.3	1725.4	1713.5	1711.5	1705.6	1707.6	1695.7	1493.6
62.5°	1881.9	1872.0	1852.2	1840.3	1824.5	1814.5	1816.5	1812.6	1820.5	1812.6	1563.0
65°	2016.6	2004.7	1980.9	1955.2	1933.4	1917.6	1911.6	1923.5	1957.2	1965.1	1656.1
67.5°	2101.8	2091.9	2056.2	2024.5	1994.8	1973.0	1979.0	1975.0	1992.8	2024.5	1671.9
70°	1941.3	1937.4	1901.7	1881.9	1860.1	1838.3	1840.3	1834.4	1848.2	1856.1	1533.3
72.5°	1693.7	1713.5	1668.0	1666.0	1652.1	1654.1	1632.3	1648.1	1638.2	1638.2	1356.9
75°	1416.4	1374.8	1360.9	1394.6	1374.8	1376.8	1372.8	1390.6	1388.6	1390.6	1180.6
77.5°	929.1	937.0	919.2	954.8	972.6	1002.4	1016.2	1063.8	1045.9	1042.0	935.0
80°	416.0	425.9	427.9	461.6	483.4	513.1	503.2	536.8	515.0	479.4	457.6
82.5°	93.1	93.1	105.0	134.7	142.6	148.6	148.6	154.5	122.8	75.3	61.4
85°	63.4	61.4	83.2	112.9	118.9	114.9	110.9	103.0	71.3	21.8	17.8
87.5°	41.6	43.6	67.4	93.1	97.1	91.1	85.2	77.3	51.5	5.9	4.0
90°	27.7	31.7	51.5	71.3	71.3	67.4	61.4	51.5	31.7	2.0	2.0
92.5°	13.9	15.8	25.8	31.7	29.7	25.8	23.8	19.8	11.9	2.0	2.0
95°	7.9	7.9	11.9	11.9	11.9	9.9	9.9	7.9	4.0	2.0	2.0
97.5°	5.9	5.9	7.9	7.9	5.9	5.9	5.9	4.0	2.0	2.0	2.0
100°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0
102.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
105°	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
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-D-U-T5R-7050-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	2.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
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	0.0
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	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	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	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	2.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	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	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	2.0	0.0	2.0	2.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	2.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	2.0	2.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	0.0	2.0	2.0
175°	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
177.5°	0.0	0.0	0.0	0.0	0.0	2.0	0.0	2.0	2.0	2.0	2.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1
2.5°	608.2	610.1	612.1	616.1	616.1	622.0	624.0	626.0	628.0	628.0
5°	592.3	594.3	600.2	604.2	610.1	614.1	620.0	622.0	624.0	626.0
7.5°	562.6	566.6	572.5	574.5	582.4	588.3	594.3	600.2	602.2	606.2
10°	532.9	534.9	536.8	542.8	546.7	554.7	562.6	566.6	570.5	570.5
12.5°	511.1	513.1	515.0	517.0	523.0	526.9	534.9	538.8	540.8	544.8
15°	497.2	497.2	501.2	501.2	505.1	511.1	515.0	521.0	523.0	526.9
17.5°	493.3	493.3	495.2	497.2	501.2	503.2	507.1	513.1	515.0	517.0
20°	495.2	497.2	497.2	499.2	503.2	505.1	509.1	511.1	513.1	515.0
22.5°	505.1	503.2	505.1	505.1	507.1	511.1	515.0	519.0	521.0	521.0
25°	519.0	517.0	517.0	521.0	523.0	525.0	530.9	532.9	534.9	534.9
27.5°	542.8	540.8	542.8	542.8	544.8	544.8	550.7	550.7	552.7	554.7
30°	566.6	560.6	560.6	560.6	562.6	566.6	568.5	572.5	574.5	574.5
32.5°	602.2	590.3	588.3	590.3	590.3	592.3	598.2	596.3	600.2	598.2
35°	647.8	635.9	631.9	631.9	631.9	631.9	637.9	633.9	637.9	635.9
37.5°	703.2	687.4	685.4	685.4	681.4	683.4	685.4	681.4	679.5	681.4
40°	762.7	734.9	733.0	734.9	734.9	734.9	734.9	733.0	731.0	733.0
42.5°	734.9	624.0	637.9	657.7	677.5	701.3	707.2	723.0	725.0	725.0
45°	641.8	360.5	380.3	410.1	421.9	429.9	451.7	485.3	495.2	497.2
47.5°	566.6	120.8	128.8	140.6	160.5	170.4	172.3	196.1	206.0	186.2
50°	560.6	27.7	19.8	19.8	21.8	17.8	17.8	19.8	19.8	19.8
52.5°	612.1	25.8	17.8	15.8	15.8	15.8	13.9	15.8	15.8	15.8
55°	665.6	25.8	17.8	15.8	15.8	15.8	13.9	13.9	13.9	13.9
57.5°	709.2	25.8	17.8	15.8	15.8	13.9	11.9	11.9	11.9	11.9
60°	760.7	25.8	17.8	15.8	15.8	11.9	9.9	9.9	9.9	9.9
62.5°	804.3	27.7	17.8	15.8	13.9	9.9	9.9	9.9	9.9	9.9
65°	867.7	27.7	17.8	13.9	9.9	7.9	7.9	7.9	7.9	7.9
67.5°	897.4	27.7	15.8	11.9	7.9	5.9	5.9	5.9	5.9	5.9
70°	808.2	21.8	11.9	7.9	5.9	5.9	5.9	5.9	5.9	5.9
72.5°	691.4	15.8	7.9	5.9	4.0	4.0	4.0	4.0	4.0	2.0
75°	550.7	9.9	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	386.3	7.9	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	160.5	5.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	23.8	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.9	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: CRTK2-C016-D-U-T5R-7050-U0-DS-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)