

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: P691547

Luminaire Tested: **CRTK2-C016-D-U-T5R-7040-U0-DS-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691547
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-7040-U0-DS-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K 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: 3916.1 lumens
Efficiency: N/A
Efficacy: 94.1 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



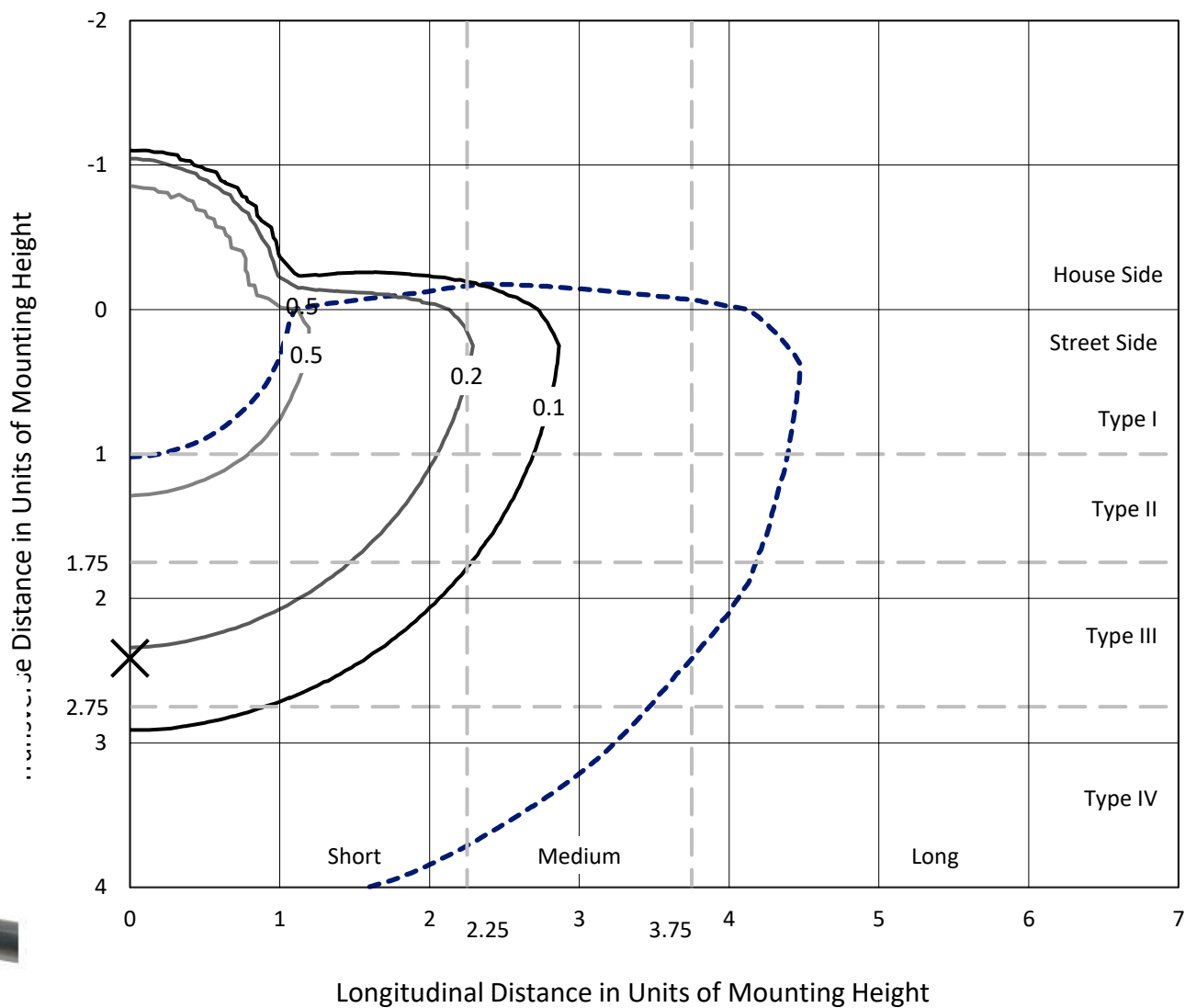
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CATALOG NUMBER: CRTK2-C016-D-U-T5R-7040-U0-DS-HSS-CRTK2

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

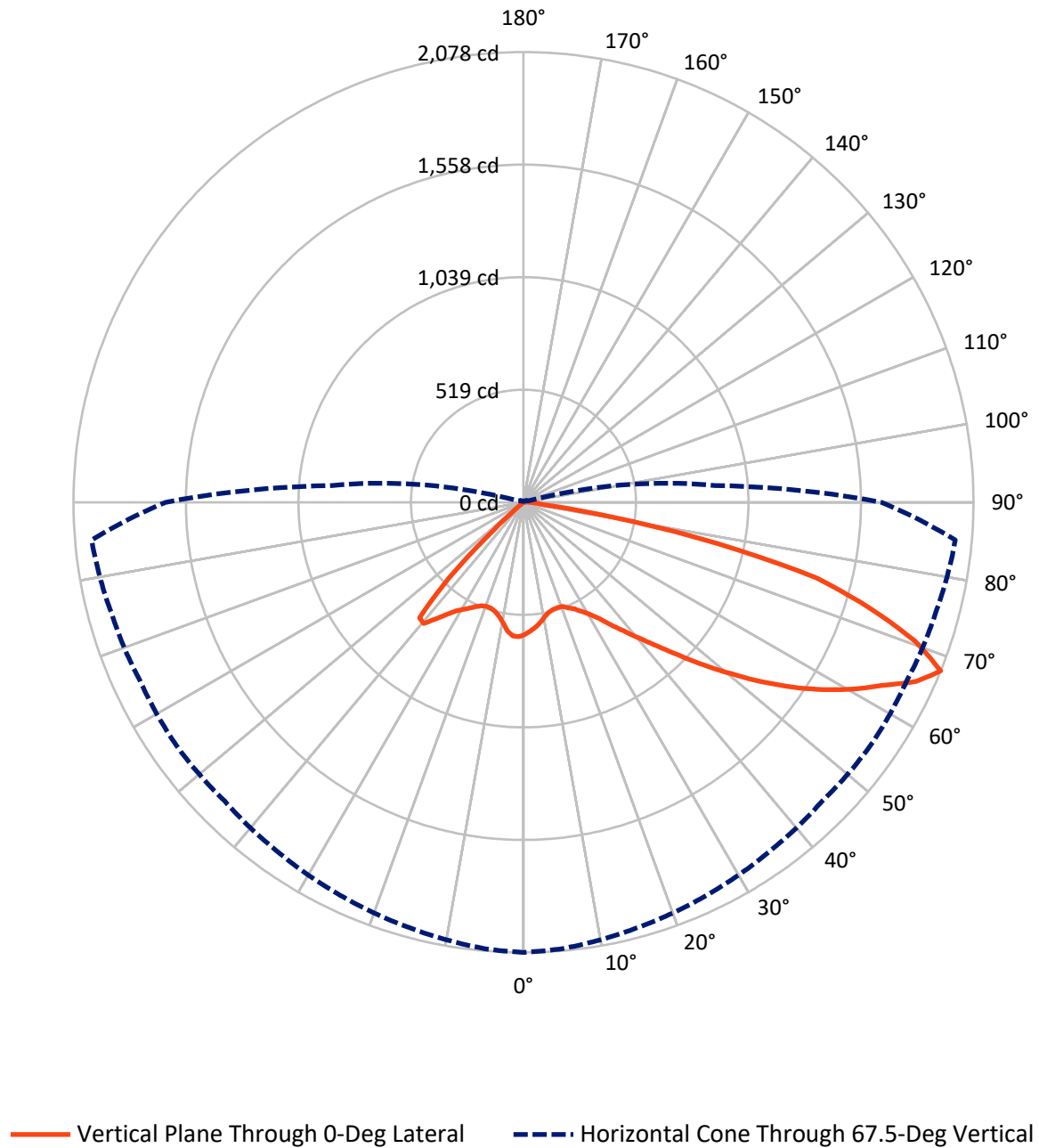


Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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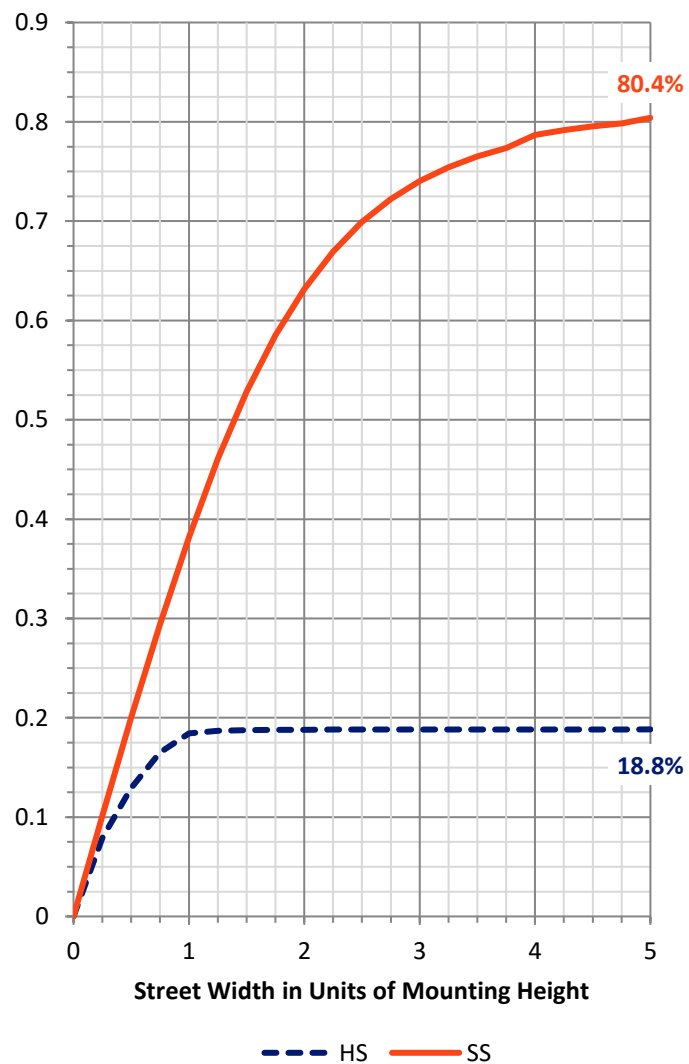
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	741.6	1.4	743.0
	% Fixture	18.9	0.0	19.0
Street Side	Lumens	3164.1	8.9	3173.0
	% Fixture	80.8	0.2	81.0
Total	Lumens	3905.7	10.3	3916.1
	% Fixture	99.7	0.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	1.4
10°-20°	143.7	3.7
20°-30°	246.5	6.3
30°-40°	416.8	10.6
40°-50°	556.2	14.2
50°-60°	706.2	18.0
60°-70°	989.0	25.3
70°-80°	716.3	18.3
80°-90°	76.3	1.9
90°-100°	8.6	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°	3905.7	99.7
0°-180°	3916.1	100.0

Coefficient of Utilization



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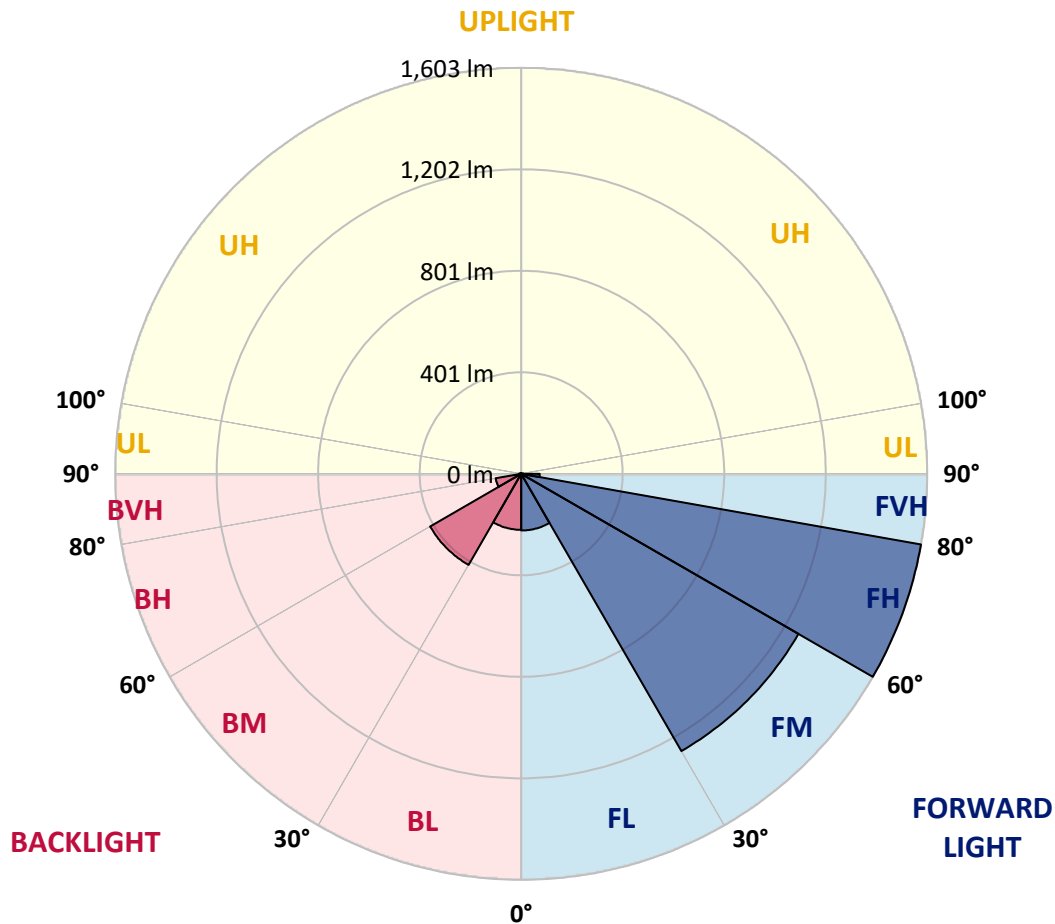
CATALOG NUMBER: CRTK2-C016-D-U-T5R-7040-U0-DS-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	223.8	5.7			
FM	(30°-60°)	1264.0	32.3			
FH	(60°-80°)	1602.8	40.9			G1/1800
FVH	(80°-90°)	73.5	1.9			G1/100
BL	(0°-30°)	221.1	5.6	B1/500		
BM	(30°-60°)	415.3	10.6	B1/1000		
BH	(60°-80°)	102.4	2.6	B0/110		G0/110
BVH	(80°-90°)	2.9	0.1			G0/10
UL	(90°-100°)	8.6	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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CATALOG NUMBER: CRTK2-C016-D-U-T5R-7040-U0-DS-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0
2.5°	595.4	597.3	597.3	597.3	599.3	597.3	597.3	597.3	597.3	599.3	599.3
5°	579.7	579.7	579.7	581.7	581.7	579.7	577.7	579.7	579.7	581.7	581.7
7.5°	560.1	560.1	560.1	562.1	560.1	556.2	552.3	554.2	552.3	554.2	556.2
10°	536.6	538.6	538.6	536.6	534.7	528.8	522.9	524.9	522.9	524.9	524.9
12.5°	520.9	522.9	522.9	520.9	515.1	511.2	507.2	503.3	501.4	505.3	503.3
15°	513.1	515.1	515.1	513.1	509.2	505.3	497.4	495.5	491.6	489.6	491.6
17.5°	511.2	511.2	511.2	509.2	505.3	499.4	495.5	491.6	489.6	489.6	487.7
20°	513.1	517.0	515.1	513.1	509.2	505.3	499.4	493.5	493.5	493.5	491.6
22.5°	528.8	528.8	526.8	526.8	522.9	517.0	511.2	507.2	503.3	503.3	503.3
25°	544.4	546.4	546.4	544.4	538.6	530.7	528.8	522.9	520.9	519.0	517.0
27.5°	569.9	567.9	569.9	569.9	562.1	558.2	552.3	548.4	546.4	542.5	540.5
30°	599.3	599.3	599.3	599.3	593.4	585.6	581.7	575.8	569.9	569.9	566.0
32.5°	638.5	640.4	640.4	638.5	632.6	624.7	620.8	613.0	611.0	607.1	603.2
35°	693.3	693.3	693.3	689.4	681.5	675.7	671.7	665.9	663.9	658.0	648.2
37.5°	754.0	754.0	757.9	754.0	746.2	738.3	732.5	728.5	722.7	718.7	712.9
40°	824.5	824.5	826.5	820.6	812.8	808.8	803.0	795.1	791.2	789.3	777.5
42.5°	906.8	910.7	910.7	904.8	898.9	893.1	885.2	879.3	875.4	867.6	851.9
45°	1006.6	1004.7	1008.6	1002.7	998.8	996.8	985.1	971.4	973.3	955.7	938.1
47.5°	1124.1	1126.1	1124.1	1118.3	1114.4	1112.4	1100.6	1083.0	1075.2	1061.5	1028.2
50°	1243.6	1245.6	1243.6	1239.7	1243.6	1231.9	1218.2	1202.5	1200.5	1182.9	1132.0
52.5°	1374.8	1369.0	1367.0	1365.0	1361.1	1355.2	1341.5	1323.9	1325.9	1306.3	1226.0
55°	1506.0	1500.2	1490.4	1486.5	1482.5	1472.7	1461.0	1455.1	1453.2	1433.6	1325.9
57.5°	1631.4	1621.6	1607.9	1605.9	1600.0	1586.3	1580.5	1570.7	1570.7	1549.1	1398.3
60°	1750.8	1739.1	1723.4	1715.6	1705.8	1694.1	1692.1	1686.2	1688.2	1676.4	1476.7
62.5°	1860.5	1850.7	1831.1	1819.4	1803.7	1793.9	1795.9	1792.0	1799.8	1792.0	1545.2
65°	1993.7	1981.9	1958.4	1933.0	1911.4	1895.8	1889.9	1901.6	1934.9	1942.8	1637.3
67.5°	2077.9	2068.1	2032.9	2001.5	1972.2	1950.6	1956.5	1952.6	1970.2	2001.5	1652.9
70°	1919.3	1915.4	1880.1	1860.5	1839.0	1817.4	1819.4	1813.5	1827.2	1835.1	1515.8
72.5°	1674.5	1694.1	1649.0	1647.1	1633.3	1635.3	1613.8	1629.4	1619.6	1619.6	1341.5
75°	1400.3	1359.2	1345.5	1378.7	1359.2	1361.1	1357.2	1374.8	1372.9	1374.8	1167.2
77.5°	918.5	926.3	908.7	944.0	961.6	991.0	1004.7	1051.7	1034.1	1030.1	924.4
80°	411.3	421.1	423.0	456.3	477.9	507.2	497.4	530.7	509.2	473.9	452.4
82.5°	92.0	92.0	103.8	133.2	141.0	146.9	146.9	152.8	121.4	74.4	60.7
85°	62.7	60.7	82.3	111.6	117.5	113.6	109.7	101.8	70.5	21.5	17.6
87.5°	41.1	43.1	66.6	92.0	96.0	90.1	84.2	76.4	50.9	5.9	3.9
90°	27.4	31.3	50.9	70.5	70.5	66.6	60.7	50.9	31.3	2.0	2.0
92.5°	13.7	15.7	25.5	31.3	29.4	25.5	23.5	19.6	11.8	2.0	2.0
95°	7.8	7.8	11.8	11.8	11.8	9.8	9.8	7.8	3.9	2.0	2.0
97.5°	5.9	5.9	7.8	7.8	5.9	5.9	5.9	3.9	2.0	2.0	2.0
100°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	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-7040-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°	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0
2.5°	601.2	603.2	605.2	609.1	609.1	615.0	616.9	618.9	620.8	620.8
5°	585.6	587.5	593.4	597.3	603.2	607.1	613.0	615.0	616.9	618.9
7.5°	556.2	560.1	566.0	567.9	575.8	581.7	587.5	593.4	595.4	599.3
10°	526.8	528.8	530.7	536.6	540.5	548.4	556.2	560.1	564.0	564.0
12.5°	505.3	507.2	509.2	511.2	517.0	520.9	528.8	532.7	534.7	538.6
15°	491.6	491.6	495.5	495.5	499.4	505.3	509.2	515.1	517.0	520.9
17.5°	487.7	487.7	489.6	491.6	495.5	497.4	501.4	507.2	509.2	511.2
20°	489.6	491.6	491.6	493.5	497.4	499.4	503.3	505.3	507.2	509.2
22.5°	499.4	497.4	499.4	499.4	501.4	505.3	509.2	513.1	515.1	515.1
25°	513.1	511.2	511.2	515.1	517.0	519.0	524.9	526.8	528.8	528.8
27.5°	536.6	534.7	536.6	536.6	538.6	538.6	544.4	544.4	546.4	548.4
30°	560.1	554.2	554.2	554.2	556.2	560.1	562.1	566.0	567.9	567.9
32.5°	595.4	583.6	581.7	583.6	583.6	585.6	591.4	589.5	593.4	591.4
35°	640.4	628.7	624.7	624.7	624.7	624.7	630.6	626.7	630.6	628.7
37.5°	695.2	679.6	677.6	677.6	673.7	675.7	677.6	673.7	671.7	673.7
40°	754.0	726.6	724.6	726.6	726.6	726.6	726.6	724.6	722.7	724.6
42.5°	726.6	616.9	630.6	650.2	669.8	693.3	699.2	714.8	716.8	716.8
45°	634.5	356.4	376.0	405.4	417.1	425.0	446.5	479.8	489.6	491.6
47.5°	560.1	119.5	127.3	139.0	158.6	168.4	170.4	193.9	203.7	184.1
50°	554.2	27.4	19.6	19.6	21.5	17.6	17.6	19.6	19.6	19.6
52.5°	605.2	25.5	17.6	15.7	15.7	15.7	13.7	15.7	15.7	15.7
55°	658.0	25.5	17.6	15.7	15.7	15.7	13.7	13.7	13.7	13.7
57.5°	701.1	25.5	17.6	15.7	15.7	13.7	11.8	11.8	11.8	11.8
60°	752.0	25.5	17.6	15.7	15.7	11.8	9.8	9.8	9.8	9.8
62.5°	795.1	27.4	17.6	15.7	13.7	9.8	9.8	9.8	9.8	9.8
65°	857.8	27.4	17.6	13.7	9.8	7.8	7.8	7.8	7.8	7.8
67.5°	887.2	27.4	15.7	11.8	7.8	5.9	5.9	5.9	5.9	5.9
70°	799.0	21.5	11.8	7.8	5.9	5.9	5.9	5.9	5.9	5.9
72.5°	683.5	15.7	7.8	5.9	3.9	3.9	3.9	3.9	3.9	2.0
75°	544.4	9.8	3.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	381.9	7.8	3.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	158.6	5.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	23.5	3.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.8	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-7040-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)