

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: P691540

Luminaire Tested: **CRTK2-C016-D-U-T5R-7030-U0-DS-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691540
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-7030-U0-DS-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K 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: 3803 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U1 - G1

Input Watts (W): 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

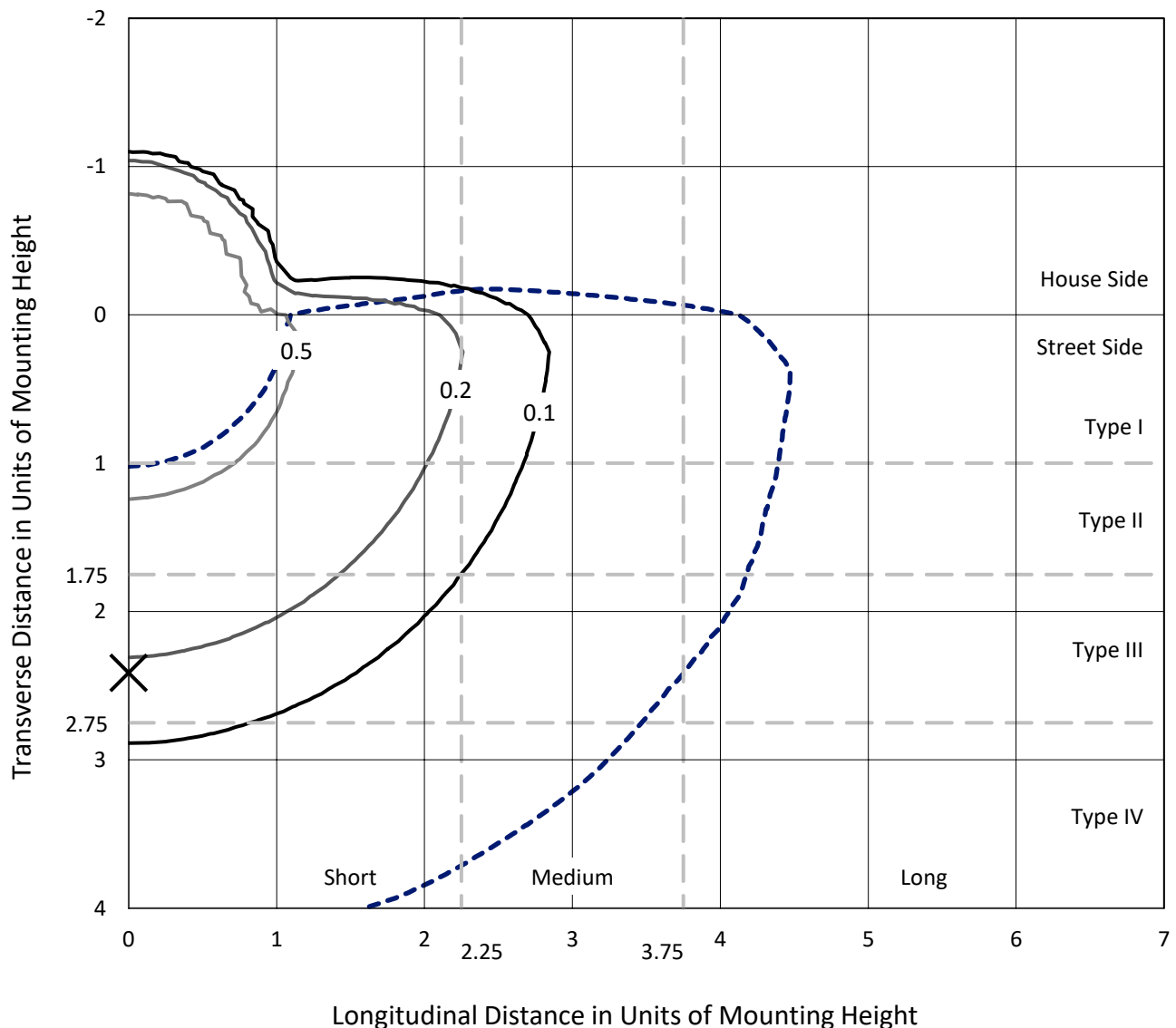


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Iso-Footcandle Lines of Horizontal Illumination

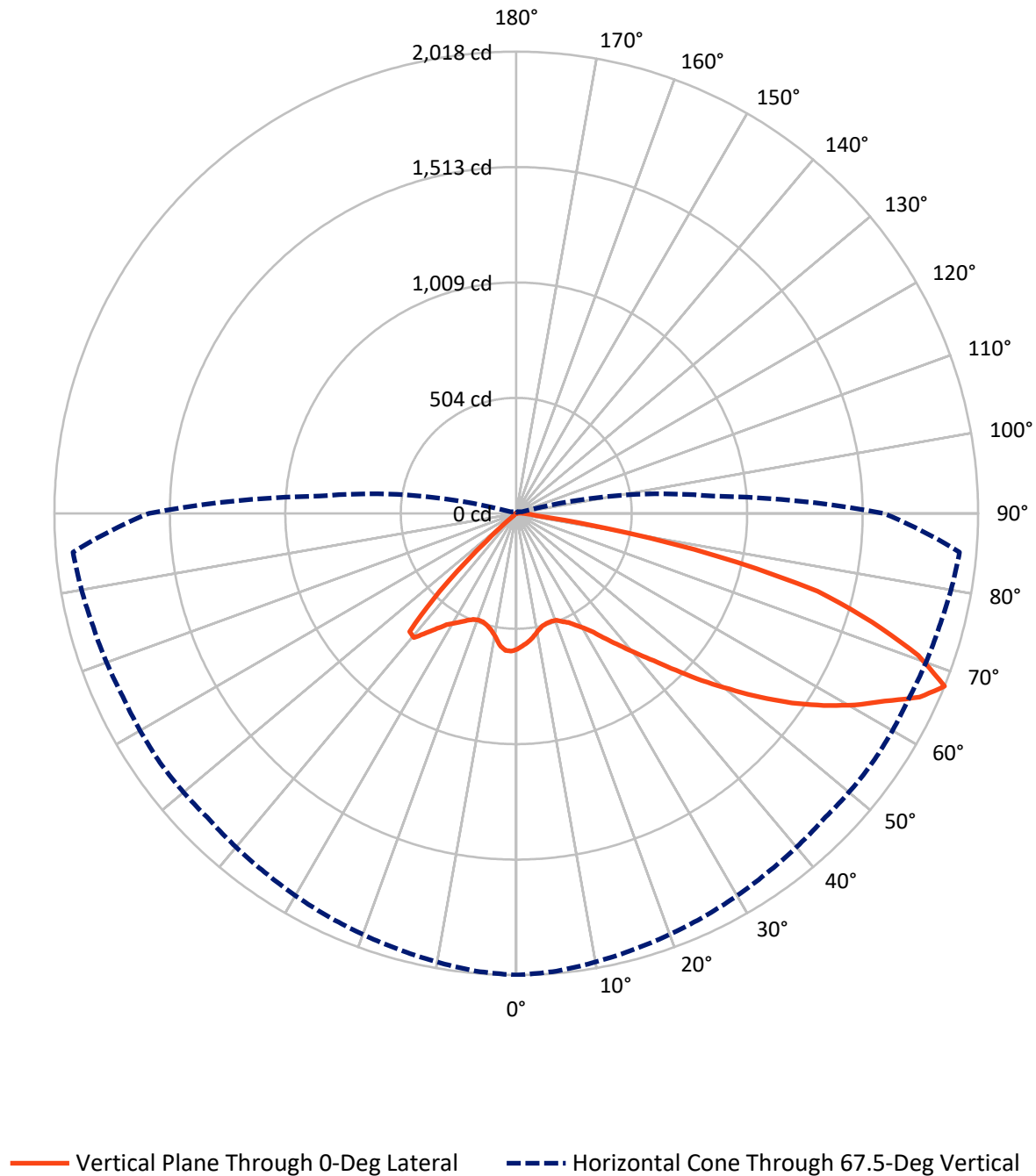
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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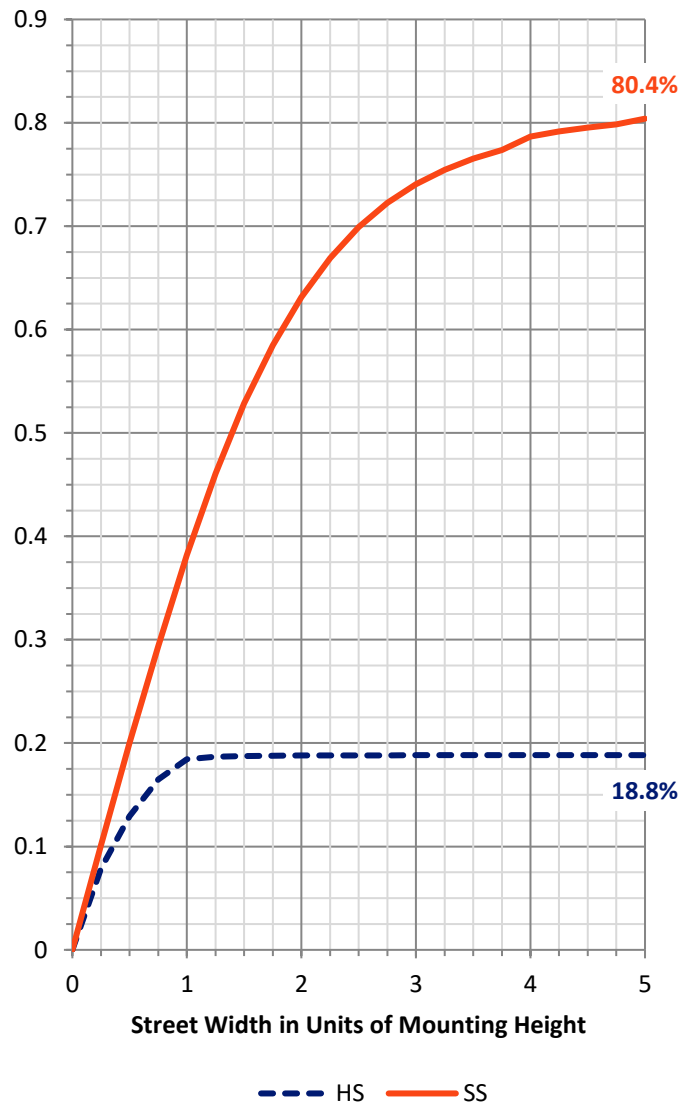
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	720.2	1.4	721.6
	% Fixture	18.9	0.0	19.0
Street Side	Lumens	3072.8	8.6	3081.4
	% Fixture	80.8	0.2	81.0
Total	Lumens	3793.0	10.0	3803.0
	% Fixture	99.7	0.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	1.4
10°-20°	139.6	3.7
20°-30°	239.4	6.3
30°-40°	404.8	10.6
40°-50°	540.2	14.2
50°-60°	685.8	18.0
60°-70°	960.4	25.3
70°-80°	695.6	18.3
80°-90°	74.1	1.9
90°-100°	8.3	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°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.1	0.0
0°-90°	3793.0	99.7
0°-180°	3803.0	100.0

Coefficient of Utilization



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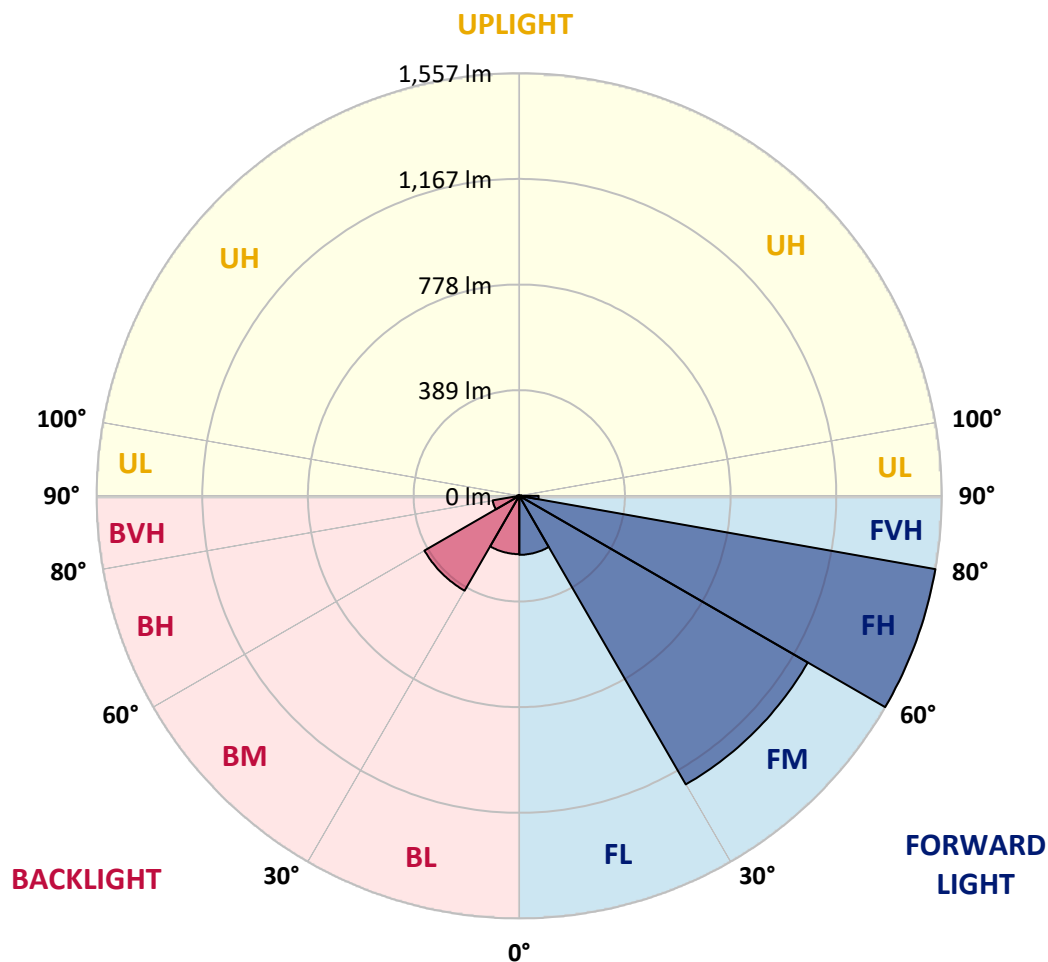
CATALOG NUMBER: CRTK2-C016-D-U-T5R-7030-U0-DS-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	217.4	5.7			
FM	(30°-60°)	1227.5	32.3			
FH	(60°-80°)	1556.6	40.9			G1/1800
FVH	(80°-90°)	71.4	1.9			G1/100
BL	(0°-30°)	214.7	5.6	B1/500		
BM	(30°-60°)	403.3	10.6	B1/1000		
BH	(60°-80°)	99.4	2.6	B0/110		G0/110
BVH	(80°-90°)	2.8	0.1			G0/10
UL	(90°-100°)	8.3	0.2		U1/10	
UH	(100°-180°)	1.7	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°	593.4	593.4	593.4	593.4	593.4	593.4	593.4	593.4	593.4	593.4	593.4
2.5°	578.2	580.1	580.1	580.1	582.0	580.1	580.1	580.1	580.1	582.0	582.0
5°	563.0	563.0	563.0	564.9	564.9	563.0	561.1	563.0	563.0	564.9	564.9
7.5°	544.0	544.0	544.0	545.9	544.0	540.1	536.3	538.2	536.3	538.2	540.1
10°	521.1	523.0	523.0	521.1	519.2	513.5	507.8	509.7	507.8	509.7	509.7
12.5°	505.9	507.8	507.8	505.9	500.2	496.4	492.6	488.8	486.9	490.7	488.8
15°	498.3	500.2	500.2	498.3	494.5	490.7	483.1	481.2	477.4	475.5	477.4
17.5°	496.4	496.4	496.4	494.5	490.7	485.0	481.2	477.4	475.5	475.5	473.6
20°	498.3	502.1	500.2	498.3	494.5	490.7	485.0	479.3	479.3	479.3	477.4
22.5°	513.5	513.5	511.6	511.6	507.8	502.1	496.4	492.6	488.8	488.8	488.8
25°	528.7	530.6	530.6	528.7	523.0	515.4	513.5	507.8	505.9	504.0	502.1
27.5°	553.5	551.6	553.5	553.5	545.9	542.1	536.3	532.5	530.6	526.8	524.9
30°	582.0	582.0	582.0	582.0	576.3	568.7	564.9	559.2	553.5	553.5	549.7
32.5°	620.0	621.9	621.9	620.0	614.3	606.7	602.9	595.3	593.4	589.6	585.8
35°	673.3	673.3	673.3	669.5	661.9	656.2	652.4	646.7	644.8	639.0	629.5
37.5°	732.2	732.2	736.0	732.2	724.6	717.0	711.3	707.5	701.8	698.0	692.3
40°	800.7	800.7	802.6	796.9	789.3	785.5	779.8	772.2	768.4	766.5	755.1
42.5°	880.6	884.4	884.4	878.7	873.0	867.3	859.7	854.0	850.2	842.6	827.3
45°	977.6	975.7	979.5	973.8	970.0	968.1	956.7	943.4	945.3	928.1	911.0
47.5°	1091.7	1093.6	1091.7	1086.0	1082.2	1080.3	1068.9	1051.8	1044.2	1030.8	998.5
50°	1207.7	1209.6	1207.7	1203.9	1207.7	1196.3	1183.0	1167.8	1165.9	1148.8	1099.3
52.5°	1335.2	1329.4	1327.5	1325.6	1321.8	1316.1	1302.8	1285.7	1287.6	1268.6	1190.6
55°	1462.6	1456.9	1447.4	1443.6	1439.8	1430.3	1418.8	1413.1	1411.2	1392.2	1287.6
57.5°	1584.3	1574.8	1561.5	1559.6	1553.9	1540.6	1534.9	1525.3	1525.3	1504.4	1358.0
60°	1700.3	1688.9	1673.7	1666.1	1656.6	1645.2	1643.3	1637.6	1639.5	1628.1	1434.1
62.5°	1806.8	1797.3	1778.3	1766.9	1751.7	1742.2	1744.1	1740.3	1747.9	1740.3	1500.6
65°	1936.2	1924.8	1901.9	1877.2	1856.3	1841.1	1835.4	1846.8	1879.1	1886.7	1590.0
67.5°	2017.9	2008.4	1974.2	1943.8	1915.2	1894.3	1900.0	1896.2	1913.3	1943.8	1605.2
70°	1863.9	1860.1	1825.9	1806.8	1785.9	1765.0	1766.9	1761.2	1774.5	1782.1	1472.1
72.5°	1626.2	1645.2	1601.4	1599.5	1586.2	1588.1	1567.2	1582.4	1572.9	1572.9	1302.8
75°	1359.9	1319.9	1306.6	1339.0	1319.9	1321.8	1318.0	1335.2	1333.3	1335.2	1133.6
77.5°	892.0	899.6	882.5	916.7	933.8	962.4	975.7	1021.3	1004.2	1000.4	897.7
80°	399.4	408.9	410.8	443.1	464.1	492.6	483.1	515.4	494.5	460.3	439.3
82.5°	89.4	89.4	100.8	129.3	136.9	142.6	142.6	148.4	117.9	72.3	59.0
85°	60.9	59.0	79.9	108.4	114.1	110.3	106.5	98.9	68.5	20.9	17.1
87.5°	39.9	41.8	64.7	89.4	93.2	87.5	81.8	74.2	49.5	5.7	3.8
90°	26.6	30.4	49.5	68.5	68.5	64.7	59.0	49.5	30.4	1.9	1.9
92.5°	13.3	15.2	24.7	30.4	28.5	24.7	22.8	19.0	11.4	1.9	1.9
95°	7.6	7.6	11.4	11.4	11.4	9.5	9.5	7.6	3.8	1.9	1.9
97.5°	5.7	5.7	7.6	7.6	5.7	5.7	5.7	3.8	1.9	1.9	1.9
100°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	1.9	1.9	1.9	1.9
102.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
105°	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	1.9
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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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	1.9
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
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	1.9
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	1.9
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	1.9	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	1.9
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	1.9
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	1.9	0.0	1.9	1.9
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	1.9	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	1.9	1.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	0.0	1.9	1.9
175°	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9
177.5°	0.0	0.0	0.0	0.0	0.0	1.9	0.0	1.9	1.9	1.9	1.9
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°	593.4	593.4	593.4	593.4	593.4	593.4	593.4	593.4	593.4	593.4
2.5°	583.9	585.8	587.7	591.5	591.5	597.2	599.1	601.0	602.9	602.9
5°	568.7	570.6	576.3	580.1	585.8	589.6	595.3	597.2	599.1	601.0
7.5°	540.1	544.0	549.7	551.6	559.2	564.9	570.6	576.3	578.2	582.0
10°	511.6	513.5	515.4	521.1	524.9	532.5	540.1	544.0	547.8	547.8
12.5°	490.7	492.6	494.5	496.4	502.1	505.9	513.5	517.3	519.2	523.0
15°	477.4	477.4	481.2	481.2	485.0	490.7	494.5	500.2	502.1	505.9
17.5°	473.6	473.6	475.5	477.4	481.2	483.1	486.9	492.6	494.5	496.4
20°	475.5	477.4	477.4	479.3	483.1	485.0	488.8	490.7	492.6	494.5
22.5°	485.0	483.1	485.0	485.0	486.9	490.7	494.5	498.3	500.2	500.2
25°	498.3	496.4	496.4	500.2	502.1	504.0	509.7	511.6	513.5	513.5
27.5°	521.1	519.2	521.1	521.1	523.0	523.0	528.7	528.7	530.6	532.5
30°	544.0	538.2	538.2	538.2	540.1	544.0	545.9	549.7	551.6	551.6
32.5°	578.2	566.8	564.9	566.8	566.8	568.7	574.4	572.5	576.3	574.4
35°	621.9	610.5	606.7	606.7	606.7	606.7	612.4	608.6	612.4	610.5
37.5°	675.2	660.0	658.1	658.1	654.3	656.2	658.1	654.3	652.4	654.3
40°	732.2	705.6	703.7	705.6	705.6	705.6	705.6	703.7	701.8	703.7
42.5°	705.6	599.1	612.4	631.4	650.5	673.3	679.0	694.2	696.1	696.1
45°	616.2	346.2	365.2	393.7	405.1	412.7	433.6	466.0	475.5	477.4
47.5°	544.0	116.0	123.6	135.0	154.1	163.6	165.5	188.3	197.8	178.8
50°	538.2	26.6	19.0	19.0	20.9	17.1	17.1	19.0	19.0	19.0
52.5°	587.7	24.7	17.1	15.2	15.2	15.2	13.3	15.2	15.2	15.2
55°	639.0	24.7	17.1	15.2	15.2	15.2	13.3	13.3	13.3	13.3
57.5°	680.9	24.7	17.1	15.2	15.2	13.3	11.4	11.4	11.4	11.4
60°	730.3	24.7	17.1	15.2	15.2	11.4	9.5	9.5	9.5	9.5
62.5°	772.2	26.6	17.1	15.2	13.3	9.5	9.5	9.5	9.5	9.5
65°	833.0	26.6	17.1	13.3	9.5	7.6	7.6	7.6	7.6	7.6
67.5°	861.6	26.6	15.2	11.4	7.6	5.7	5.7	5.7	5.7	5.7
70°	776.0	20.9	11.4	7.6	5.7	5.7	5.7	5.7	5.7	5.7
72.5°	663.8	15.2	7.6	5.7	3.8	3.8	3.8	3.8	3.8	1.9
75°	528.7	9.5	3.8	1.9	1.9	0.0	0.0	0.0	0.0	0.0
77.5°	370.9	7.6	3.8	1.9	1.9	0.0	0.0	0.0	0.0	0.0
80°	154.1	5.7	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.8	3.8	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.6	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
90°	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	1.9	1.9	1.9	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-7030-U0-DS-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	1.9	1.9	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°	1.9	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	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.9	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°	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	1.9	1.9	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)