

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: P853390

Luminaire Tested: **CRTK-N-40-727-U-T2R-RMARROA5**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P853390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-111-5)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK-N-40-727-U-T2R-RMARROA5
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

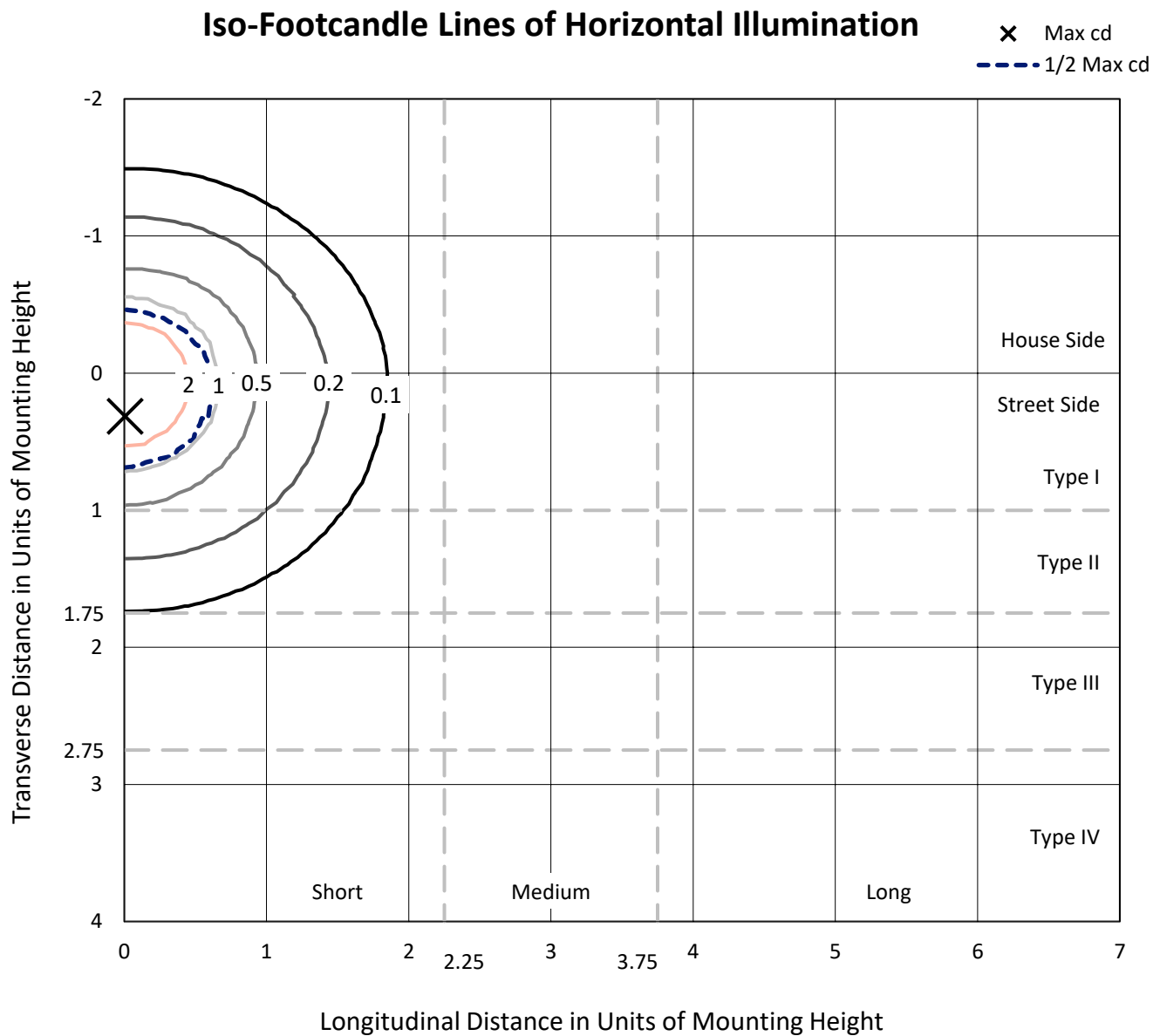
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4742 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.83' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B2 - U4 - G2

Input Watts (W): 42.1
Input Voltage (V): 120.0
Input Current (Ain): 0.352
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.54%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

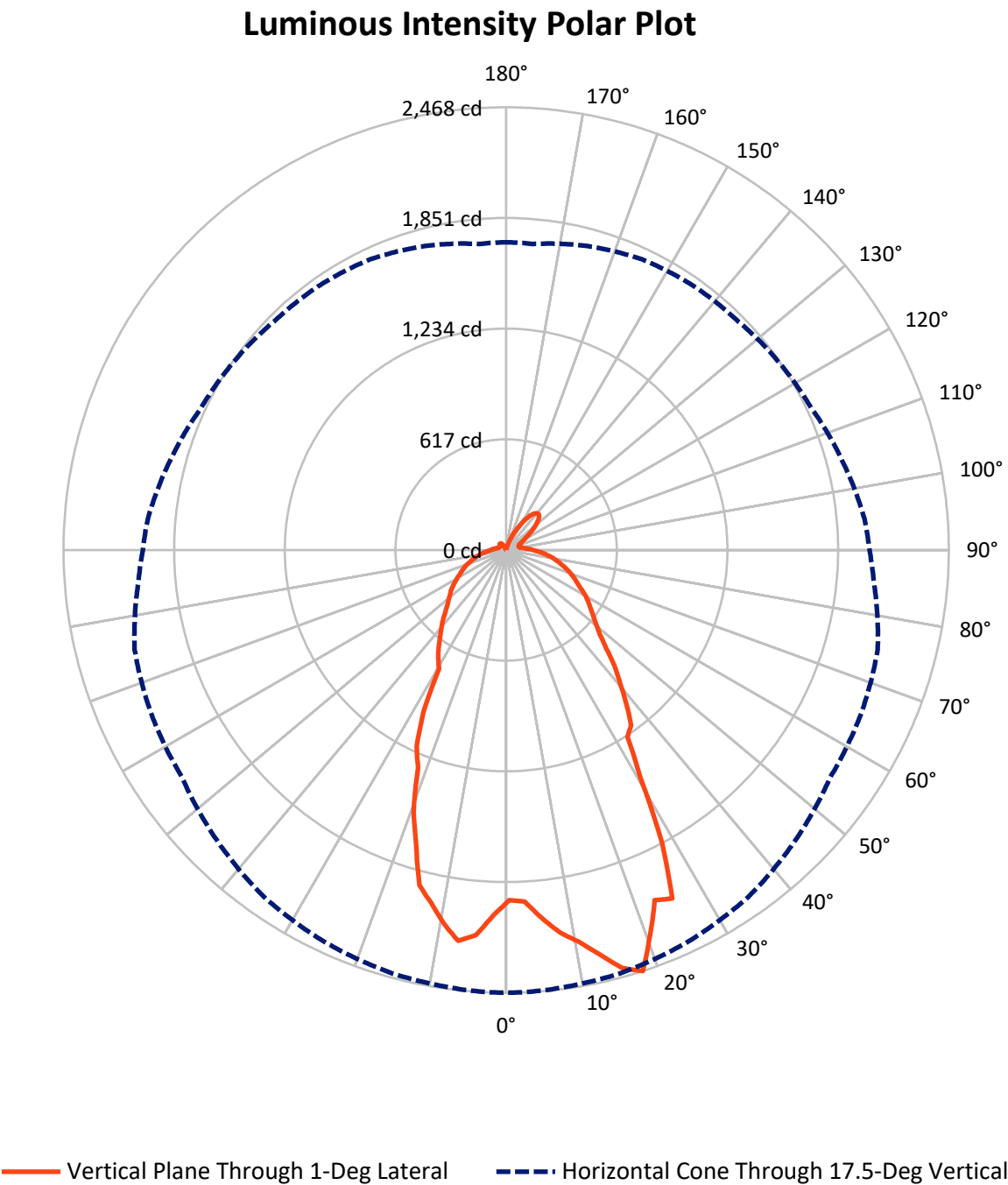


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Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type I - Short - N/A

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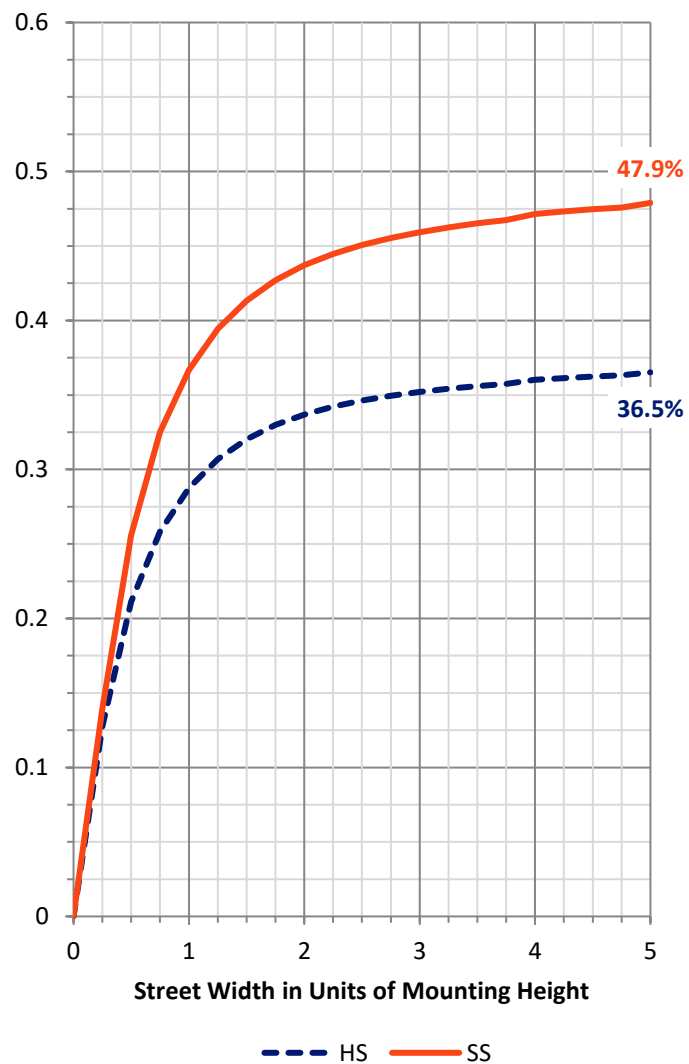
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1782.8	230.2	2013.0
	% Fixture	37.6	4.9	42.5
Street Side	Lumens	2327.2	401.8	2729.0
	% Fixture	49.1	8.5	57.5
Total	Lumens	4110.0	632.0	4742.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.9	4.1
10°-20°	578.8	12.2
20°-30°	724.8	15.3
30°-40°	612.2	12.9
40°-50°	538.9	11.4
50°-60°	501.5	10.6
60°-70°	426.8	9.0
70°-80°	324.4	6.8
80°-90°	206.6	4.4
90°-100°	112.6	2.4
100°-110°	69.5	1.5
110°-120°	70.8	1.5
120°-130°	103.4	2.2
130°-140°	134.4	2.8
140°-150°	101.6	2.1
150°-160°	35.8	0.8
160°-170°	3.9	0.1
170°-180°	0.0	0.0
0°-90°	4110.0	86.7
0°-180°	4742.0	100.0

Coefficient of Utilization



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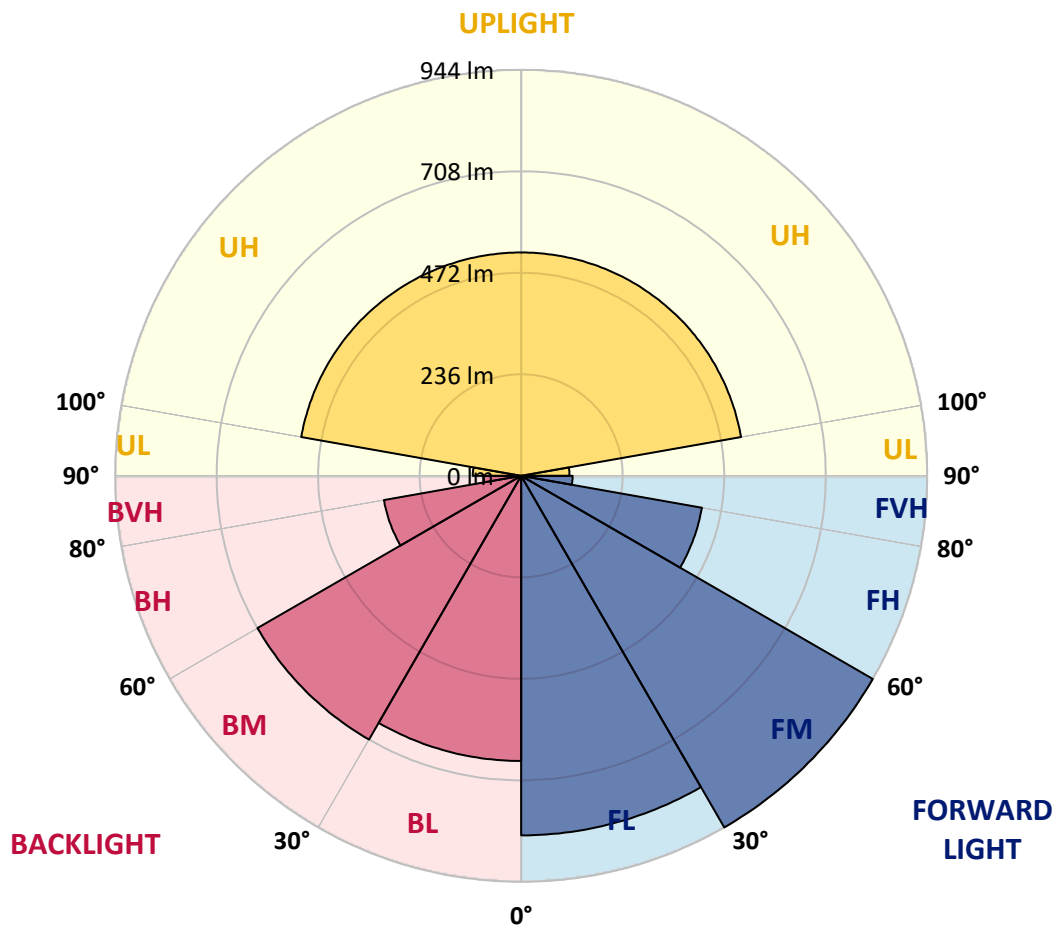
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	836.2	17.6			
FM	(30°-60°)	944.4	19.9			
FH	(60°-80°)	427.0	9.0			G0/660
FVH	(80°-90°)	119.6	2.5			G2/225
BL	(0°-30°)	663.3	14.0	B2/1000		
BM	(30°-60°)	708.2	14.9	B1/1000		
BH	(60°-80°)	324.2	6.8	B1/500		G1/500
BVH	(80°-90°)	87.1	1.8			G1/100
UL	(90°-100°)	112.6	2.4		U3/500	
UH	(100°-180°)	519.4	11.0		U4/1000	

BUG Rating: B2-U4-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1951.7	1951.7	1951.7	1951.7	1951.7	1951.7	1951.7	1951.7	1951.7	1951.7	1951.7
2.5°	1960.6	1962.1	1966.6	1974.0	1974.0	1974.0	1974.0	1968.1	1977.0	1974.0	1968.1
5°	2060.1	2060.1	2063.1	2067.5	2063.1	2057.1	2052.7	2042.3	2043.8	2034.9	2025.9
7.5°	2153.6	2153.6	2156.6	2159.5	2144.7	2141.7	2122.4	2094.2	2064.5	2031.9	1997.7
10°	2218.9	2220.4	2226.3	2223.3	2213.0	2193.7	2150.6	2095.7	2040.8	1982.9	1935.4
12.5°	2312.4	2312.4	2310.9	2319.8	2299.0	2266.4	2201.1	2123.9	2063.1	1999.2	1931.0
15°	2413.3	2417.8	2432.6	2435.6	2404.4	2356.9	2282.7	2205.5	2135.8	2067.5	1987.4
17.5°	2466.8	2468.2	2463.8	2444.5	2407.4	2358.4	2284.2	2207.0	2180.3	2144.7	2058.6
20°	2290.1	2291.6	2305.0	2302.0	2294.6	2364.3	2293.1	2195.1	2126.9	2014.1	1858.2
22.5°	2120.9	2120.9	2147.7	2217.4	2175.9	2140.2	2057.1	2012.6	1862.7	1841.9	1766.2
25°	2147.7	2152.1	2144.7	2034.9	1947.3	1982.9	1887.9	1785.5	1800.3	1755.8	1588.1
27.5°	1847.8	1852.3	1873.1	1917.6	1816.7	1757.3	1697.9	1576.2	1592.6	1546.5	1570.3
30°	1485.7	1476.8	1484.2	1497.6	1433.7	1417.4	1404.1	1375.9	1375.9	1226.0	1133.9
32.5°	1236.3	1240.8	1243.8	1239.3	1236.3	1240.8	1215.6	1193.3	1175.5	1142.8	1110.2
35°	1202.2	1200.7	1203.7	1188.9	1165.1	1160.7	1150.3	1147.3	1131.0	1086.4	1062.7
37.5°	1090.9	1089.4	1093.9	1087.9	1062.7	1067.1	1059.7	1049.3	1030.0	982.5	964.7
40°	981.1	979.6	981.1	976.6	954.3	949.9	945.4	939.5	923.2	889.0	877.2
42.5°	892.0	889.0	892.0	887.6	865.3	862.3	859.4	856.4	846.0	820.8	817.8
45°	783.7	782.2	785.1	786.6	773.3	780.7	783.7	782.2	774.8	756.9	752.5
47.5°	702.0	702.0	703.5	713.9	709.5	719.8	725.8	728.7	733.2	737.7	737.7
50°	650.1	650.1	650.1	663.4	673.8	696.1	706.5	713.9	722.8	712.4	703.5
52.5°	607.0	608.5	610.0	621.9	638.2	660.5	676.8	690.2	694.6	684.2	679.8
55°	571.4	569.9	574.4	584.8	602.6	623.4	639.7	654.5	669.4	672.3	672.3
57.5°	537.3	538.8	541.7	553.6	571.4	593.7	617.4	639.7	660.5	679.8	688.7
60°	504.6	504.6	506.1	518.0	534.3	556.6	581.8	601.1	623.4	617.4	620.4
62.5°	464.6	464.6	467.5	477.9	494.2	510.6	526.9	537.3	552.1	552.1	555.1
65°	434.9	433.4	436.4	445.3	460.1	472.0	488.3	498.7	513.5	518.0	522.4
67.5°	405.2	405.2	406.7	414.1	428.9	440.8	452.7	464.6	477.9	482.4	488.3
70°	378.5	378.5	378.5	385.9	399.3	409.6	420.0	430.4	443.8	443.8	451.2
72.5°	347.3	347.3	353.2	356.2	371.1	380.0	388.9	396.3	408.2	408.2	414.1
75°	320.6	317.6	322.1	326.5	339.9	347.3	353.2	360.7	372.5	371.1	375.5
77.5°	292.4	289.4	293.9	298.3	307.2	314.7	317.6	325.0	332.5	331.0	335.4
80°	262.7	261.2	265.7	267.2	276.1	282.0	285.0	289.4	296.8	293.9	299.8
82.5°	234.5	231.5	236.0	237.5	243.4	249.3	252.3	255.3	261.2	258.3	262.7
85°	204.8	201.9	204.8	207.8	212.2	218.2	219.7	221.1	228.6	224.1	228.6
87.5°	175.1	172.2	176.6	178.1	182.6	187.0	190.0	190.0	195.9	191.5	195.9
90°	149.9	146.9	149.9	151.4	154.4	158.8	160.3	161.8	166.2	161.8	166.2
92.5°	126.2	123.2	126.2	127.6	130.6	135.1	138.0	138.0	142.5	136.5	141.0
95°	106.9	103.9	106.9	108.3	109.8	112.8	115.8	117.3	120.2	115.8	118.7
97.5°	92.0	90.5	92.0	92.0	93.5	96.5	99.4	100.9	102.4	98.0	99.4
100°	81.6	80.1	81.6	81.6	81.6	83.1	84.6	86.1	87.6	83.1	84.6
102.5°	75.7	75.7	75.7	75.7	75.7	77.2	78.7	78.7	77.2	74.2	74.2
105°	72.7	72.7	72.7	72.7	72.7	74.2	74.2	74.2	72.7	71.2	69.8
107.5°	72.7	74.2	72.7	72.7	72.7	74.2	74.2	72.7	71.2	69.8	66.8
110°	75.7	77.2	75.7	75.7	75.7	75.7	75.7	74.2	71.2	69.8	66.8

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	80.1	81.6	81.6	81.6	80.1	80.1	78.7	77.2	74.2	72.7	69.8
115°	87.6	90.5	89.1	89.1	87.6	87.6	86.1	83.1	80.1	78.7	75.7
117.5°	99.4	102.4	100.9	100.9	100.9	98.0	95.0	92.0	89.1	87.6	84.6
120°	115.8	118.7	117.3	117.3	117.3	112.8	111.3	105.4	102.4	100.9	96.5
122.5°	136.5	139.5	138.0	136.5	138.0	132.1	129.1	123.2	118.7	118.7	111.3
125°	160.3	164.7	163.3	161.8	161.8	155.8	152.9	145.5	139.5	138.0	130.6
127.5°	188.5	192.9	191.5	190.0	188.5	182.6	179.6	170.7	163.3	160.3	151.4
130°	216.7	221.1	219.7	218.2	218.2	212.2	207.8	198.9	190.0	182.6	170.7
132.5°	241.9	244.9	243.4	243.4	244.9	240.4	236.0	224.1	212.2	201.9	188.5
135°	261.2	262.7	262.7	262.7	265.7	261.2	255.3	244.9	230.1	216.7	203.3
137.5°	270.1	270.1	270.1	271.6	274.6	271.6	265.7	256.8	241.9	227.1	212.2
140°	267.2	265.7	267.2	268.6	271.6	271.6	265.7	256.8	243.4	227.1	213.7
142.5°	255.3	252.3	253.8	256.8	258.3	262.7	256.8	247.9	236.0	219.7	207.8
145°	233.0	228.6	230.1	233.0	234.5	240.4	236.0	228.6	219.7	204.8	194.4
147.5°	203.3	198.9	200.4	204.8	203.3	209.3	206.3	201.9	195.9	181.1	173.7
150°	169.2	163.3	166.2	169.2	166.2	172.2	169.2	167.7	164.7	152.9	146.9
152.5°	133.6	127.6	130.6	133.6	129.1	133.6	130.6	132.1	130.6	120.2	117.3
155°	102.4	98.0	99.4	100.9	96.5	99.4	98.0	99.4	99.4	90.5	89.1
157.5°	74.2	69.8	71.2	72.7	69.8	71.2	71.2	71.2	72.7	65.3	63.8
160°	49.0	46.0	47.5	47.5	46.0	47.5	47.5	47.5	49.0	43.0	43.0
162.5°	28.2	25.2	26.7	28.2	26.7	28.2	28.2	29.7	29.7	25.2	25.2
165°	11.9	8.9	10.4	10.4	10.4	11.9	11.9	13.4	13.4	10.4	10.4
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	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	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1951.7	1951.7	1951.7	1951.7	1951.7	1951.7	1951.7	1951.7	1951.7	1951.7	1951.7
2.5°	1968.1	1974.0	1982.9	1993.3	1999.2	2008.1	2015.6	2025.9	2036.3	2040.8	2036.3
5°	2023.0	2028.9	2036.3	2046.7	2052.7	2055.6	2074.9	2106.1	2134.3	2153.6	2153.6
7.5°	1985.9	1981.4	1988.8	2000.7	2011.1	2033.4	2060.1	2101.6	2156.6	2192.2	2196.6
10°	1916.1	1911.7	1904.2	1911.7	1919.1	1939.9	1968.1	2009.6	2067.5	2106.1	2110.5
12.5°	1908.7	1896.8	1884.9	1884.9	1884.9	1895.3	1917.6	1947.3	1981.4	2006.7	2012.6
15°	1962.1	1947.3	1925.0	1914.6	1901.3	1890.9	1892.4	1899.8	1922.1	1933.9	1929.5
17.5°	2025.9	2005.2	1938.4	1876.0	1844.9	1815.2	1804.8	1788.5	1754.3	1712.8	1715.7
20°	1834.5	1822.6	1827.1	1800.3	1760.3	1687.5	1558.4	1516.9	1524.3	1545.1	1543.6
22.5°	1730.6	1697.9	1629.7	1540.6	1548.0	1441.2	1429.3	1420.4	1341.7	1313.5	1309.1
25°	1549.5	1549.5	1551.0	1423.4	1361.0	1291.3	1239.3	1203.7	1178.5	1181.4	1206.7
27.5°	1531.7	1473.8	1352.1	1227.4	1153.2	1141.4	1098.3	1016.7	1021.1	1019.7	1013.7
30°	1113.2	1096.8	1117.6	1086.4	1030.0	972.2	921.7	877.2	832.6	767.3	758.4
32.5°	1089.4	1068.6	1022.6	963.3	914.3	865.3	816.3	774.8	736.2	716.9	712.4
35°	1050.8	1031.5	982.5	923.2	872.7	822.3	770.3	725.8	685.7	672.3	663.4
37.5°	958.8	942.5	900.9	847.5	801.5	755.5	705.0	667.9	633.8	620.4	611.5
40°	871.2	859.4	820.8	774.8	730.2	688.7	647.1	614.5	586.3	572.9	567.0
42.5°	813.3	800.0	761.4	715.4	676.8	633.8	598.1	568.5	543.2	531.3	525.4
45°	749.5	739.1	703.5	663.4	624.9	580.3	549.2	521.0	497.2	486.8	480.9
47.5°	728.7	712.4	667.9	624.9	586.3	544.7	512.1	482.4	461.6	452.7	446.7
50°	697.6	682.7	641.2	599.6	558.1	515.0	480.9	451.2	431.9	423.0	418.5
52.5°	669.4	650.1	611.5	567.0	525.4	483.9	452.7	427.5	408.2	399.3	394.8
55°	664.9	642.7	599.6	550.6	501.7	461.6	428.9	403.7	384.4	377.0	372.5
57.5°	673.8	648.6	590.7	529.9	479.4	437.8	405.2	381.4	362.1	350.3	345.8
60°	621.9	605.6	549.2	503.1	455.7	412.6	380.0	354.7	332.5	325.0	319.1
62.5°	553.6	540.3	498.7	457.1	420.0	382.9	351.8	326.5	305.7	298.3	293.9
65°	519.5	507.6	470.5	430.4	394.8	360.7	328.0	304.3	285.0	277.5	273.1
67.5°	486.8	476.4	442.3	402.2	368.1	332.5	305.7	282.0	264.2	256.8	253.8
70°	449.7	440.8	406.7	369.6	335.4	305.7	282.0	259.7	243.4	237.5	233.0
72.5°	412.6	402.2	371.1	332.5	304.3	276.1	255.3	236.0	219.7	213.7	210.8
75°	375.5	365.1	331.0	299.8	273.1	249.3	230.1	212.2	198.9	192.9	190.0
77.5°	335.4	325.0	296.8	268.6	244.9	224.1	206.3	191.5	178.1	173.7	170.7
80°	298.3	287.9	264.2	237.5	216.7	198.9	184.0	169.2	158.8	154.4	152.9
82.5°	262.7	253.8	231.5	209.3	190.0	173.7	161.8	149.9	141.0	136.5	135.1
85°	227.1	219.7	200.4	181.1	164.7	151.4	138.0	129.1	121.7	118.7	115.8
87.5°	194.4	187.0	170.7	154.4	141.0	129.1	117.3	109.8	103.9	102.4	98.0
90°	164.7	158.8	145.5	132.1	120.2	109.8	100.9	95.0	89.1	87.6	86.1
92.5°	141.0	135.1	124.7	114.3	105.4	95.0	89.1	83.1	80.1	78.7	77.2
95°	118.7	115.8	106.9	98.0	92.0	84.6	78.7	74.2	71.2	71.2	69.8
97.5°	100.9	98.0	90.5	86.1	80.1	74.2	69.8	66.8	65.3	65.3	62.3
100°	84.6	83.1	77.2	72.7	69.8	65.3	60.9	59.4	57.9	57.9	56.4
102.5°	74.2	72.7	68.3	63.8	60.9	57.9	54.9	53.4	51.9	51.9	50.5
105°	68.3	66.8	62.3	59.4	56.4	53.4	50.5	49.0	47.5	47.5	46.0
107.5°	65.3	63.8	60.9	57.9	53.4	50.5	49.0	47.5	43.0	44.5	44.5
110°	65.3	63.8	60.9	57.9	53.4	50.5	49.0	46.0	40.1	43.0	41.6

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CATALOG NUMBER: CRTK-N-40-727-U-T2R-RMARROA5

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	68.3	66.8	63.8	59.4	54.9	51.9	49.0	46.0	38.6	41.6	41.6
115°	74.2	71.2	68.3	63.8	59.4	54.9	51.9	47.5	38.6	40.1	40.1
117.5°	81.6	78.7	75.7	69.8	63.8	59.4	54.9	49.0	40.1	40.1	40.1
120°	93.5	89.1	84.6	77.2	69.8	65.3	59.4	51.9	41.6	41.6	41.6
122.5°	106.9	102.4	96.5	86.1	77.2	71.2	63.8	56.4	43.0	43.0	43.0
125°	123.2	118.7	111.3	98.0	86.1	80.1	69.8	59.4	46.0	44.5	44.5
127.5°	144.0	136.5	126.2	109.8	96.5	89.1	75.7	62.3	47.5	44.5	46.0
130°	163.3	154.4	141.0	123.2	108.3	96.5	83.1	66.8	50.5	44.5	47.5
132.5°	179.6	170.7	155.8	136.5	118.7	105.4	89.1	69.8	51.9	46.0	47.5
135°	194.4	185.5	167.7	146.9	127.6	111.3	93.5	72.7	53.4	47.5	49.0
137.5°	204.8	195.9	175.1	154.4	133.6	114.3	95.0	74.2	53.4	47.5	47.5
140°	206.3	198.9	176.6	155.8	133.6	114.3	93.5	74.2	53.4	47.5	47.5
142.5°	201.9	192.9	172.2	151.4	130.6	109.8	90.5	69.8	50.5	44.5	44.5
145°	190.0	182.6	161.8	142.5	121.7	102.4	83.1	63.8	46.0	40.1	40.1
147.5°	169.2	163.3	144.0	129.1	108.3	90.5	72.7	56.4	40.1	34.1	34.1
150°	145.5	141.0	123.2	109.8	93.5	75.7	60.9	47.5	32.7	28.2	26.7
152.5°	118.7	114.3	99.4	89.1	74.2	60.9	49.0	37.1	26.7	22.3	20.8
155°	89.1	87.6	74.2	68.3	56.4	46.0	37.1	28.2	19.3	16.3	14.8
157.5°	65.3	62.3	53.4	49.0	41.6	34.1	26.7	20.8	13.4	10.4	8.9
160°	43.0	43.0	35.6	32.7	28.2	22.3	17.8	13.4	8.9	5.9	4.5
162.5°	25.2	25.2	20.8	19.3	17.8	13.4	10.4	8.9	5.9	3.0	3.0
165°	11.9	11.9	8.9	8.9	7.4	7.4	5.9	4.5	3.0	3.0	1.5
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	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	0.0

(END OF REPORT)