

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: P853417

Luminaire Tested: **CRTK-N-40-750-U-T2R-RMARROA5**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P853417
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-40-750-U-T2R-RMARROA5
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5159 lumens
Efficiency: N/A
Efficacy: 122.5 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

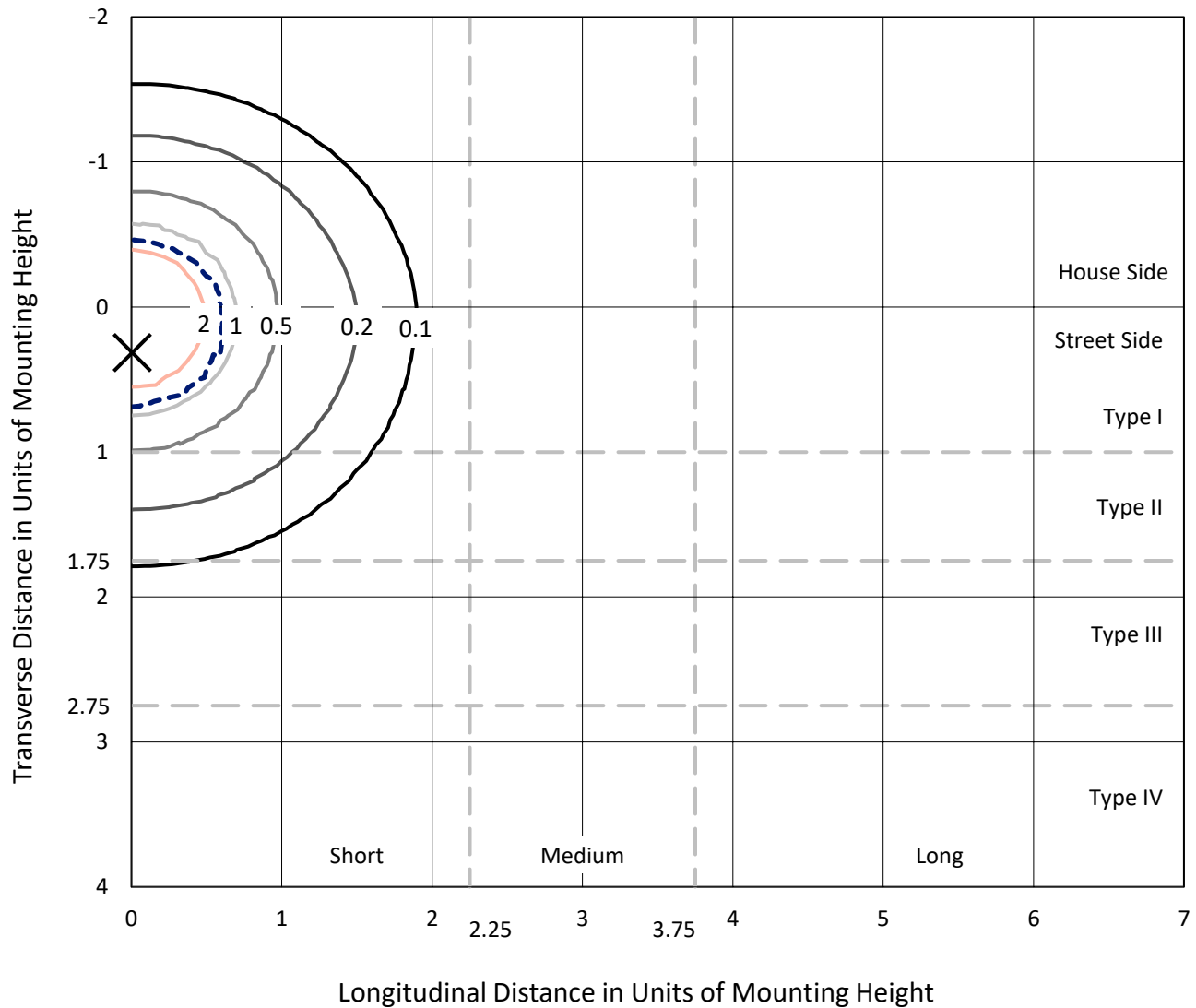


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

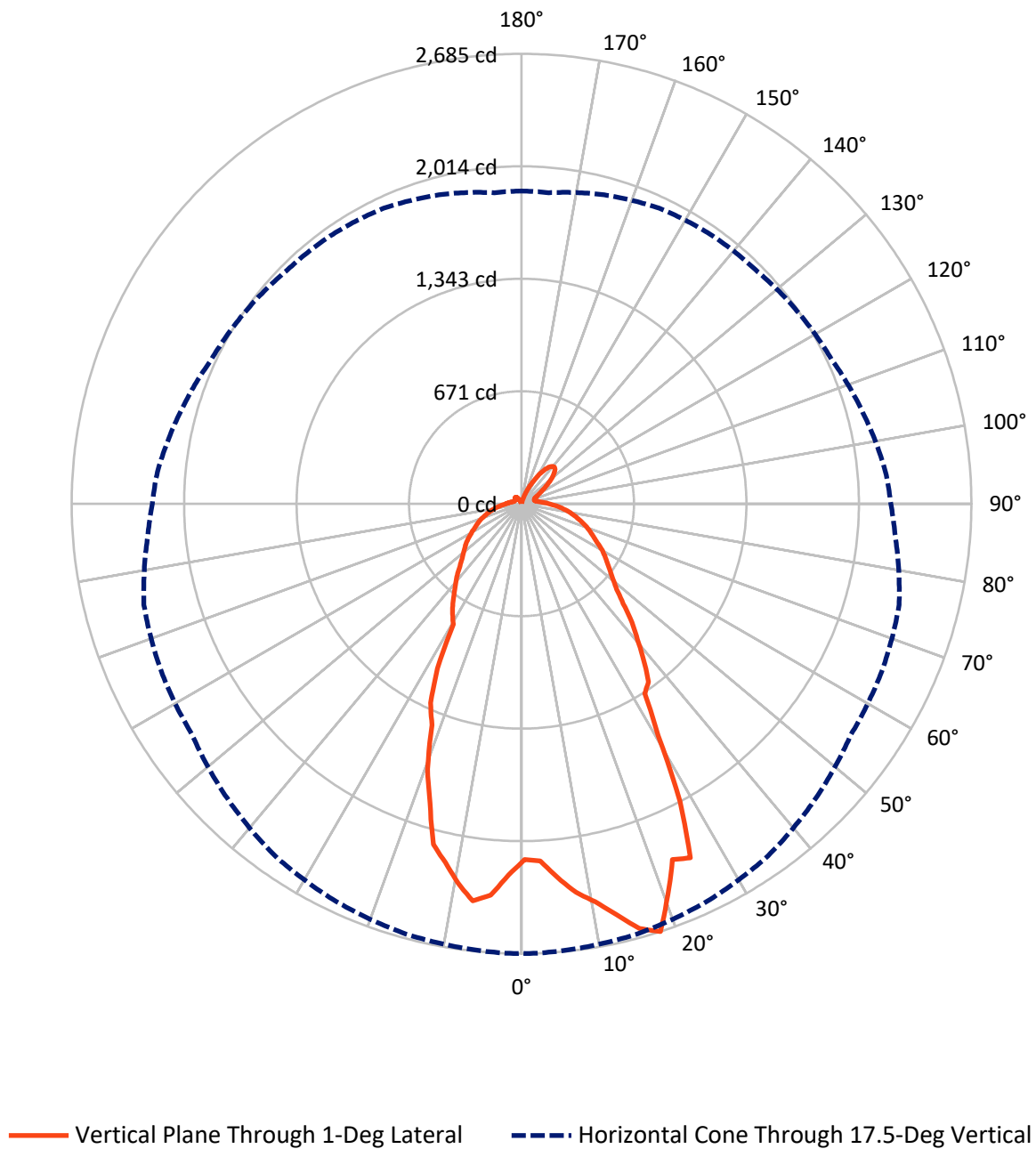


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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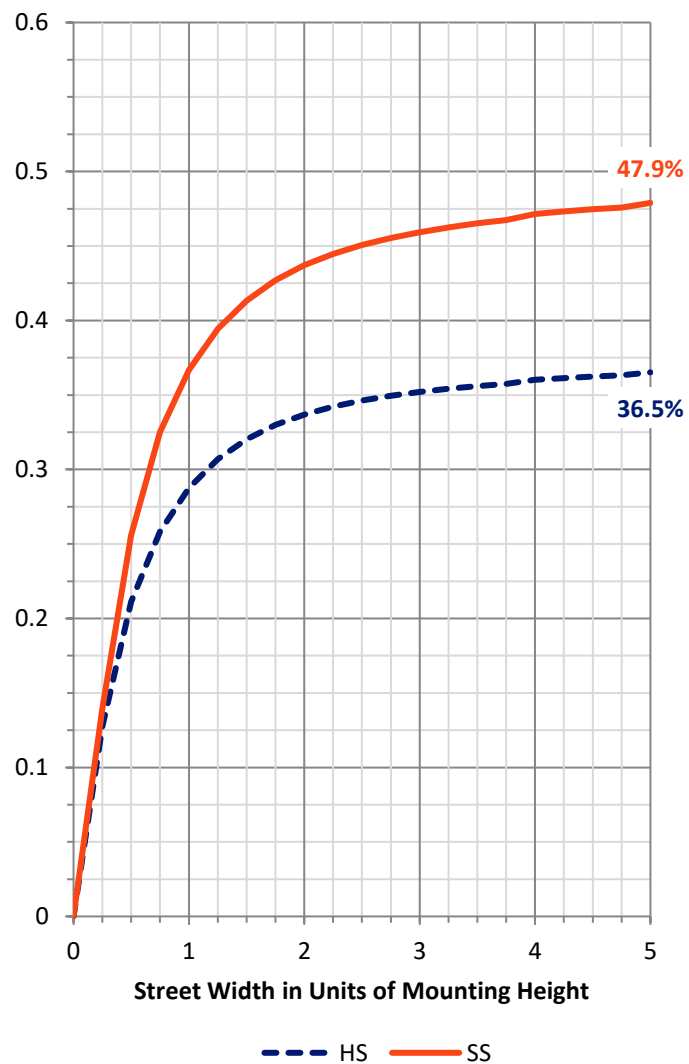
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1939.6	250.5	2190.0
	% Fixture	37.6	4.9	42.5
Street Side	Lumens	2531.9	437.1	2969.0
	% Fixture	49.1	8.5	57.5
Total	Lumens	4471.5	687.5	5159.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.2	4.1
10°-20°	629.7	12.2
20°-30°	788.5	15.3
30°-40°	666.1	12.9
40°-50°	586.3	11.4
50°-60°	545.6	10.6
60°-70°	464.4	9.0
70°-80°	352.9	6.8
80°-90°	224.8	4.4
90°-100°	122.5	2.4
100°-110°	75.6	1.5
110°-120°	77.0	1.5
120°-130°	112.5	2.2
130°-140°	146.2	2.8
140°-150°	110.5	2.1
150°-160°	38.9	0.8
160°-170°	4.2	0.1
170°-180°	0.0	0.0
0°-90°	4471.5	86.7
0°-180°	5159.0	100.0

Coefficient of Utilization



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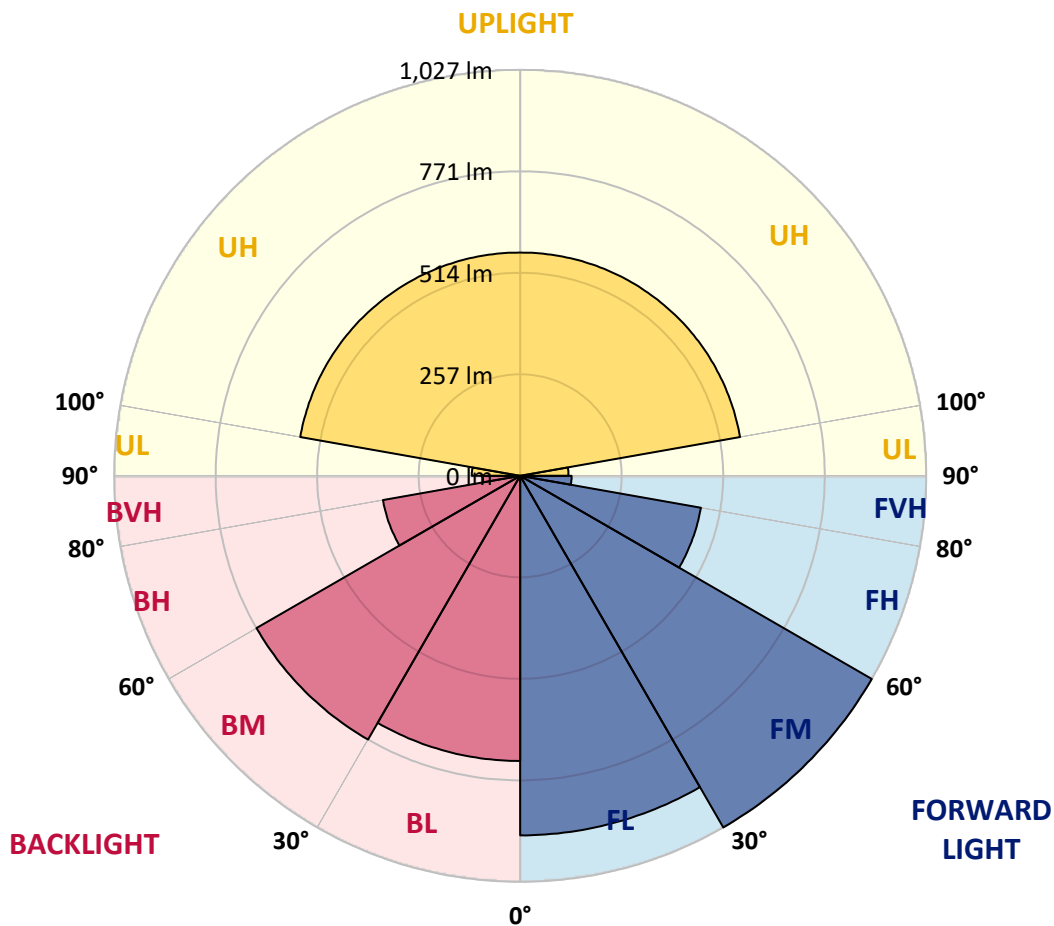
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	909.8	17.6			
FM	(30°-60°)	1027.4	19.9			
FH	(60°-80°)	464.6	9.0			G0/660
FVH	(80°-90°)	130.1	2.5			G2/225
BL	(0°-30°)	721.7	14.0	B2/1000		
BM	(30°-60°)	770.5	14.9	B1/1000		
BH	(60°-80°)	352.7	6.8	B1/500		G1/500
BVH	(80°-90°)	94.7	1.8			G1/100
UL	(90°-100°)	122.5	2.4		U3/500	
UH	(100°-180°)	565.1	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°	2123.4	2123.4	2123.4	2123.4	2123.4	2123.4	2123.4	2123.4	2123.4	2123.4	2123.4
2.5°	2133.1	2134.7	2139.5	2147.6	2147.6	2147.6	2147.6	2141.1	2150.8	2147.6	2141.1
5°	2241.2	2241.2	2244.5	2249.3	2244.5	2238.0	2233.2	2221.9	2223.5	2213.8	2204.1
7.5°	2343.0	2343.0	2346.2	2349.4	2333.3	2330.1	2309.1	2278.4	2246.1	2210.6	2173.4
10°	2414.0	2415.6	2422.1	2418.9	2407.6	2386.6	2339.7	2280.0	2220.3	2157.3	2105.6
12.5°	2515.7	2515.7	2514.1	2523.8	2501.2	2465.7	2394.6	2310.7	2244.5	2175.0	2100.8
15°	2625.5	2630.4	2646.5	2649.8	2615.9	2564.2	2483.5	2399.5	2323.6	2249.3	2162.1
17.5°	2683.7	2685.3	2680.4	2659.5	2619.1	2565.8	2485.1	2401.1	2372.0	2333.3	2239.6
20°	2491.5	2493.1	2507.7	2504.4	2496.4	2572.3	2494.8	2388.2	2313.9	2191.2	2021.6
22.5°	2307.4	2307.4	2336.5	2412.4	2367.2	2328.4	2238.0	2189.6	2026.5	2003.9	1921.5
25°	2336.5	2341.4	2333.3	2213.8	2118.5	2157.3	2053.9	1942.5	1958.7	1910.2	1727.8
27.5°	2010.3	2015.2	2037.8	2086.2	1976.4	1911.8	1847.2	1714.8	1732.6	1682.5	1708.4
30°	1616.3	1606.7	1614.7	1629.3	1559.8	1542.1	1527.5	1496.9	1496.9	1333.8	1233.7
32.5°	1345.1	1349.9	1353.1	1348.3	1345.1	1349.9	1322.5	1298.2	1278.9	1243.3	1207.8
35°	1307.9	1306.3	1309.5	1293.4	1267.6	1262.7	1251.4	1248.2	1230.4	1182.0	1156.1
37.5°	1186.8	1185.2	1190.1	1183.6	1156.1	1161.0	1152.9	1141.6	1120.6	1069.0	1049.6
40°	1067.3	1065.7	1067.3	1062.5	1038.3	1033.4	1028.6	1022.1	1004.4	967.2	954.3
42.5°	970.5	967.2	970.5	965.6	941.4	938.2	934.9	931.7	920.4	892.9	889.7
45°	852.6	851.0	854.2	855.8	841.3	849.3	852.6	851.0	842.9	823.5	818.7
47.5°	763.8	763.8	765.4	776.7	771.8	783.1	789.6	792.8	797.7	802.5	802.5
50°	707.3	707.3	707.3	721.8	733.1	757.3	768.6	776.7	786.4	775.1	765.4
52.5°	660.4	662.0	663.7	676.6	694.3	718.6	736.3	750.8	755.7	744.4	739.5
55°	621.7	620.1	624.9	636.2	655.6	678.2	695.9	712.1	728.2	731.5	731.5
57.5°	584.5	586.1	589.4	602.3	621.7	645.9	671.7	695.9	718.6	739.5	749.2
60°	549.0	549.0	550.6	563.5	581.3	605.5	633.0	654.0	678.2	671.7	675.0
62.5°	505.4	505.4	508.6	519.9	537.7	555.5	573.2	584.5	600.7	600.7	603.9
65°	473.1	471.5	474.7	484.4	500.6	513.5	531.2	542.5	558.7	563.5	568.4
67.5°	440.8	440.8	442.4	450.5	466.7	479.6	492.5	505.4	519.9	524.8	531.2
70°	411.8	411.8	411.8	419.8	434.4	445.7	457.0	468.3	482.8	482.8	490.9
72.5°	377.8	377.8	384.3	387.5	403.7	413.4	423.1	431.1	444.1	444.1	450.5
75°	348.8	345.6	350.4	355.2	369.8	377.8	384.3	392.4	405.3	403.7	408.5
77.5°	318.1	314.9	319.7	324.6	334.2	342.3	345.6	353.6	361.7	360.1	364.9
80°	285.8	284.2	289.0	290.7	300.3	306.8	310.0	314.9	322.9	319.7	326.2
82.5°	255.1	251.9	256.7	258.4	264.8	271.3	274.5	277.7	284.2	281.0	285.8
85°	222.8	219.6	222.8	226.1	230.9	237.4	239.0	240.6	248.7	243.8	248.7
87.5°	190.5	187.3	192.2	193.8	198.6	203.5	206.7	206.7	213.1	208.3	213.1
90°	163.1	159.9	163.1	164.7	167.9	172.8	174.4	176.0	180.8	176.0	180.8
92.5°	137.3	134.0	137.3	138.9	142.1	146.9	150.2	150.2	155.0	148.6	153.4
95°	116.3	113.0	116.3	117.9	119.5	122.7	125.9	127.6	130.8	125.9	129.2
97.5°	100.1	98.5	100.1	100.1	101.7	105.0	108.2	109.8	111.4	106.6	108.2
100°	88.8	87.2	88.8	88.8	88.8	90.4	92.0	93.7	95.3	90.4	92.0
102.5°	82.4	82.4	82.4	82.4	82.4	84.0	85.6	85.6	84.0	80.7	80.7
105°	79.1	79.1	79.1	79.1	79.1	80.7	80.7	80.7	79.1	77.5	75.9
107.5°	79.1	80.7	79.1	79.1	79.1	80.7	80.7	79.1	77.5	75.9	72.7
110°	82.4	84.0	82.4	82.4	82.4	82.4	82.4	80.7	77.5	75.9	72.7

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CATALOG NUMBER: CRTK-N-40-750-U-T2R-RMARROA5

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	87.2	88.8	88.8	88.8	87.2	87.2	85.6	84.0	80.7	79.1	75.9
115°	95.3	98.5	96.9	96.9	95.3	95.3	93.7	90.4	87.2	85.6	82.4
117.5°	108.2	111.4	109.8	109.8	109.8	106.6	103.3	100.1	96.9	95.3	92.0
120°	125.9	129.2	127.6	127.6	127.6	122.7	121.1	114.6	111.4	109.8	105.0
122.5°	148.6	151.8	150.2	148.6	150.2	143.7	140.5	134.0	129.2	129.2	121.1
125°	174.4	179.2	177.6	176.0	176.0	169.5	166.3	158.2	151.8	150.2	142.1
127.5°	205.1	209.9	208.3	206.7	205.1	198.6	195.4	185.7	177.6	174.4	164.7
130°	235.8	240.6	239.0	237.4	237.4	230.9	226.1	216.4	206.7	198.6	185.7
132.5°	263.2	266.4	264.8	264.8	266.4	261.6	256.7	243.8	230.9	219.6	205.1
135°	284.2	285.8	285.8	285.8	289.0	284.2	277.7	266.4	250.3	235.8	221.2
137.5°	293.9	293.9	293.9	295.5	298.7	295.5	289.0	279.3	263.2	247.1	230.9
140°	290.7	289.0	290.7	292.3	295.5	295.5	289.0	279.3	264.8	247.1	232.5
142.5°	277.7	274.5	276.1	279.3	281.0	285.8	279.3	269.7	256.7	239.0	226.1
145°	253.5	248.7	250.3	253.5	255.1	261.6	256.7	248.7	239.0	222.8	211.5
147.5°	221.2	216.4	218.0	222.8	221.2	227.7	224.4	219.6	213.1	197.0	188.9
150°	184.1	177.6	180.8	184.1	180.8	187.3	184.1	182.5	179.2	166.3	159.9
152.5°	145.3	138.9	142.1	145.3	140.5	145.3	142.1	143.7	142.1	130.8	127.6
155°	111.4	106.6	108.2	109.8	105.0	108.2	106.6	108.2	108.2	98.5	96.9
157.5°	80.7	75.9	77.5	79.1	75.9	77.5	77.5	77.5	79.1	71.0	69.4
160°	53.3	50.1	51.7	51.7	50.1	51.7	51.7	51.7	53.3	46.8	46.8
162.5°	30.7	27.5	29.1	30.7	29.1	30.7	30.7	32.3	32.3	27.5	27.5
165°	12.9	9.7	11.3	11.3	11.3	12.9	12.9	14.5	14.5	11.3	11.3
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°	2123.4	2123.4	2123.4	2123.4	2123.4	2123.4	2123.4	2123.4	2123.4	2123.4	2123.4
2.5°	2141.1	2147.6	2157.3	2168.6	2175.0	2184.7	2192.8	2204.1	2215.4	2220.3	2215.4
5°	2200.9	2207.3	2215.4	2226.7	2233.2	2236.4	2257.4	2291.3	2322.0	2343.0	2343.0
7.5°	2160.5	2155.7	2163.7	2176.7	2188.0	2212.2	2241.2	2286.5	2346.2	2385.0	2389.8
10°	2084.6	2079.8	2071.7	2079.8	2087.8	2110.5	2141.1	2186.3	2249.3	2291.3	2296.1
12.5°	2076.5	2063.6	2050.7	2050.7	2050.7	2062.0	2086.2	2118.5	2155.7	2183.1	2189.6
15°	2134.7	2118.5	2094.3	2083.0	2068.5	2057.2	2058.8	2066.9	2091.1	2104.0	2099.1
17.5°	2204.1	2181.5	2108.8	2041.0	2007.1	1974.8	1963.5	1945.7	1908.6	1863.4	1866.6
20°	1995.8	1982.9	1987.7	1958.7	1915.1	1835.9	1695.5	1650.3	1658.3	1680.9	1679.3
22.5°	1882.8	1847.2	1773.0	1676.1	1684.2	1567.9	1555.0	1545.3	1459.7	1429.0	1424.2
25°	1685.8	1685.8	1687.4	1548.5	1480.7	1404.8	1348.3	1309.5	1282.1	1285.3	1312.8
27.5°	1666.4	1603.4	1471.0	1335.4	1254.6	1241.7	1194.9	1106.1	1110.9	1109.3	1102.9
30°	1211.0	1193.3	1215.9	1182.0	1120.6	1057.6	1002.7	954.3	905.9	834.8	825.1
32.5°	1185.2	1162.6	1112.5	1048.0	994.7	941.4	888.1	842.9	800.9	779.9	775.1
35°	1143.2	1122.2	1069.0	1004.4	949.5	894.6	838.0	789.6	746.0	731.5	721.8
37.5°	1043.1	1025.4	980.1	922.0	872.0	821.9	767.0	726.6	689.5	675.0	665.3
40°	947.8	934.9	892.9	842.9	794.4	749.2	704.0	668.5	637.8	623.3	616.8
42.5°	884.9	870.3	828.4	778.3	736.3	689.5	650.7	618.4	591.0	578.1	571.6
45°	815.4	804.1	765.4	721.8	679.8	631.4	597.4	566.8	540.9	529.6	523.2
47.5°	792.8	775.1	726.6	679.8	637.8	592.6	557.1	524.8	502.2	492.5	486.0
50°	758.9	742.8	697.6	652.4	607.1	560.3	523.2	490.9	469.9	460.2	455.4
52.5°	728.2	707.3	665.3	616.8	571.6	526.4	492.5	465.0	444.1	434.4	429.5
55°	723.4	699.2	652.4	599.1	545.8	502.2	466.7	439.2	418.2	410.1	405.3
57.5°	733.1	705.6	642.7	576.5	521.6	476.3	440.8	415.0	394.0	381.1	376.2
60°	676.6	658.8	597.4	547.4	495.7	448.9	413.4	385.9	361.7	353.6	347.2
62.5°	602.3	587.8	542.5	497.3	457.0	416.6	382.7	355.2	332.6	324.6	319.7
65°	565.2	552.2	511.9	468.3	429.5	392.4	356.9	331.0	310.0	302.0	297.1
67.5°	529.6	518.3	481.2	437.6	400.5	361.7	332.6	306.8	287.4	279.3	276.1
70°	489.3	479.6	442.4	402.1	364.9	332.6	306.8	282.6	264.8	258.4	253.5
72.5°	448.9	437.6	403.7	361.7	331.0	300.3	277.7	256.7	239.0	232.5	229.3
75°	408.5	397.2	360.1	326.2	297.1	271.3	250.3	230.9	216.4	209.9	206.7
77.5°	364.9	353.6	322.9	292.3	266.4	243.8	224.4	208.3	193.8	188.9	185.7
80°	324.6	313.3	287.4	258.4	235.8	216.4	200.2	184.1	172.8	167.9	166.3
82.5°	285.8	276.1	251.9	227.7	206.7	188.9	176.0	163.1	153.4	148.6	146.9
85°	247.1	239.0	218.0	197.0	179.2	164.7	150.2	140.5	132.4	129.2	125.9
87.5°	211.5	203.5	185.7	167.9	153.4	140.5	127.6	119.5	113.0	111.4	106.6
90°	179.2	172.8	158.2	143.7	130.8	119.5	109.8	103.3	96.9	95.3	93.7
92.5°	153.4	146.9	135.6	124.3	114.6	103.3	96.9	90.4	87.2	85.6	84.0
95°	129.2	125.9	116.3	106.6	100.1	92.0	85.6	80.7	77.5	77.5	75.9
97.5°	109.8	106.6	98.5	93.7	87.2	80.7	75.9	72.7	71.0	71.0	67.8
100°	92.0	90.4	84.0	79.1	75.9	71.0	66.2	64.6	63.0	63.0	61.4
102.5°	80.7	79.1	74.3	69.4	66.2	63.0	59.7	58.1	56.5	56.5	54.9
105°	74.3	72.7	67.8	64.6	61.4	58.1	54.9	53.3	51.7	51.7	50.1
107.5°	71.0	69.4	66.2	63.0	58.1	54.9	53.3	51.7	46.8	48.4	48.4
110°	71.0	69.4	66.2	63.0	58.1	54.9	53.3	50.1	43.6	46.8	45.2

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CATALOG NUMBER: CRTK-N-40-750-U-T2R-RMARROA5

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	74.3	72.7	69.4	64.6	59.7	56.5	53.3	50.1	42.0	45.2	45.2
115°	80.7	77.5	74.3	69.4	64.6	59.7	56.5	51.7	42.0	43.6	43.6
117.5°	88.8	85.6	82.4	75.9	69.4	64.6	59.7	53.3	43.6	43.6	43.6
120°	101.7	96.9	92.0	84.0	75.9	71.0	64.6	56.5	45.2	45.2	45.2
122.5°	116.3	111.4	105.0	93.7	84.0	77.5	69.4	61.4	46.8	46.8	46.8
125°	134.0	129.2	121.1	106.6	93.7	87.2	75.9	64.6	50.1	48.4	48.4
127.5°	156.6	148.6	137.3	119.5	105.0	96.9	82.4	67.8	51.7	48.4	50.1
130°	177.6	167.9	153.4	134.0	117.9	105.0	90.4	72.7	54.9	48.4	51.7
132.5°	195.4	185.7	169.5	148.6	129.2	114.6	96.9	75.9	56.5	50.1	51.7
135°	211.5	201.8	182.5	159.9	138.9	121.1	101.7	79.1	58.1	51.7	53.3
137.5°	222.8	213.1	190.5	167.9	145.3	124.3	103.3	80.7	58.1	51.7	51.7
140°	224.4	216.4	192.2	169.5	145.3	124.3	101.7	80.7	58.1	51.7	51.7
142.5°	219.6	209.9	187.3	164.7	142.1	119.5	98.5	75.9	54.9	48.4	48.4
145°	206.7	198.6	176.0	155.0	132.4	111.4	90.4	69.4	50.1	43.6	43.6
147.5°	184.1	177.6	156.6	140.5	117.9	98.5	79.1	61.4	43.6	37.1	37.1
150°	158.2	153.4	134.0	119.5	101.7	82.4	66.2	51.7	35.5	30.7	29.1
152.5°	129.2	124.3	108.2	96.9	80.7	66.2	53.3	40.4	29.1	24.2	22.6
155°	96.9	95.3	80.7	74.3	61.4	50.1	40.4	30.7	21.0	17.8	16.1
157.5°	71.0	67.8	58.1	53.3	45.2	37.1	29.1	22.6	14.5	11.3	9.7
160°	46.8	46.8	38.8	35.5	30.7	24.2	19.4	14.5	9.7	6.5	4.8
162.5°	27.5	27.5	22.6	21.0	19.4	14.5	11.3	9.7	6.5	3.2	3.2
165°	12.9	12.9	9.7	9.7	8.1	8.1	6.5	4.8	3.2	3.2	1.6
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)