

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: P691514

Luminaire Tested: **CRTK2-C016-D-U-T3-7040-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-15)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C016-D-U-T3-7040-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE III OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4930 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B2 - U4 - G2

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



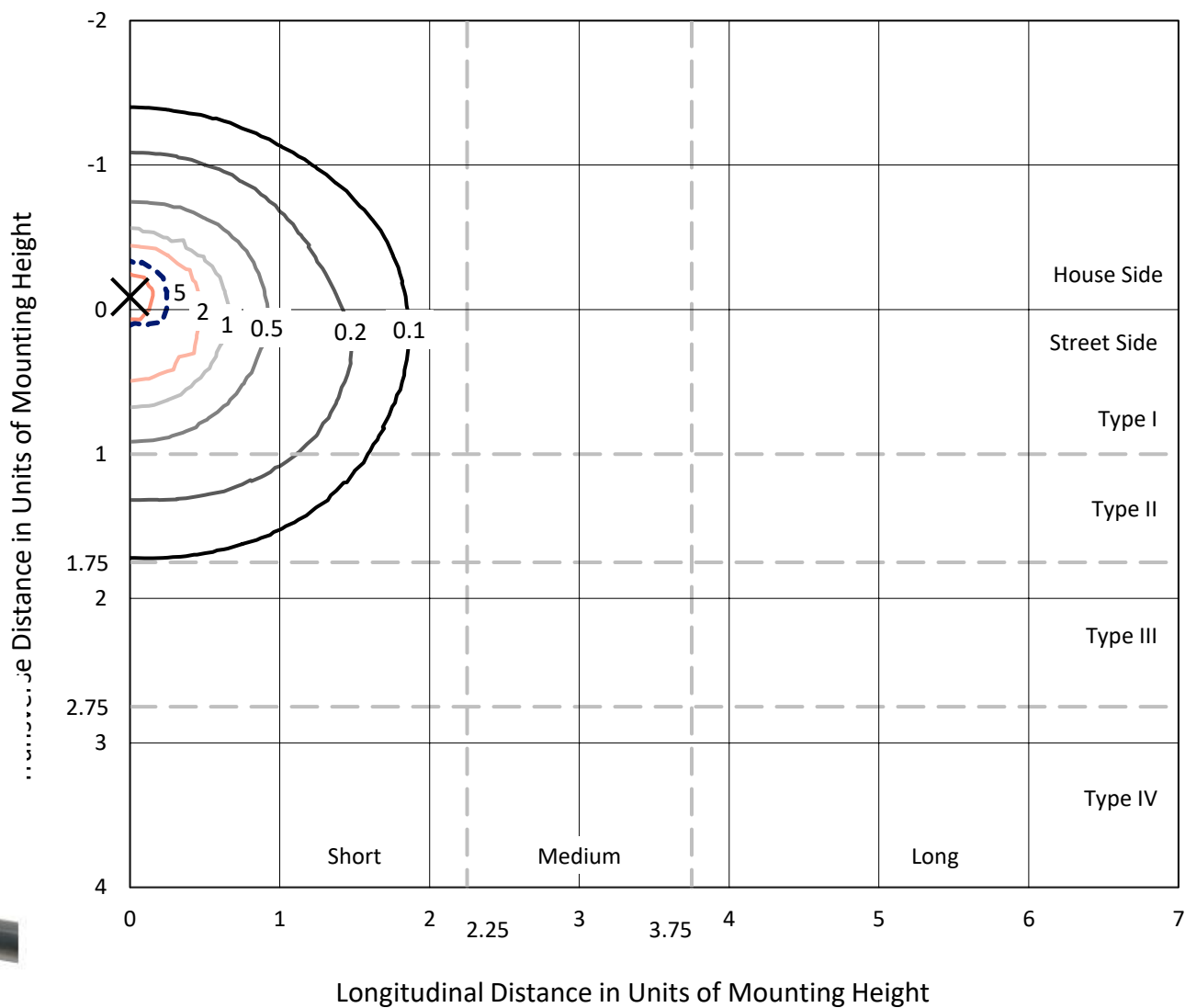
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



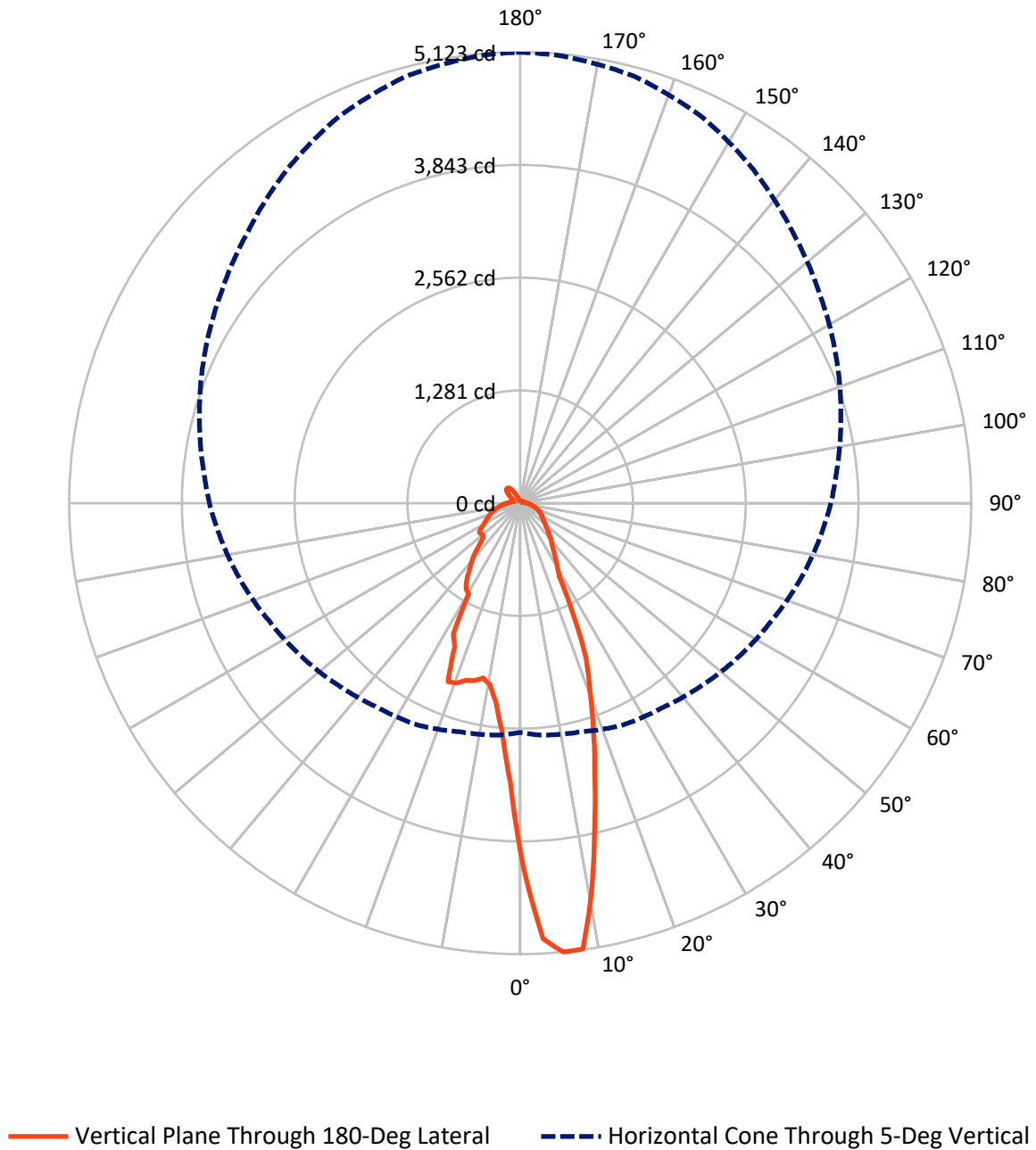
Based on 25 foot mounting height. Maximum calculated value = 8 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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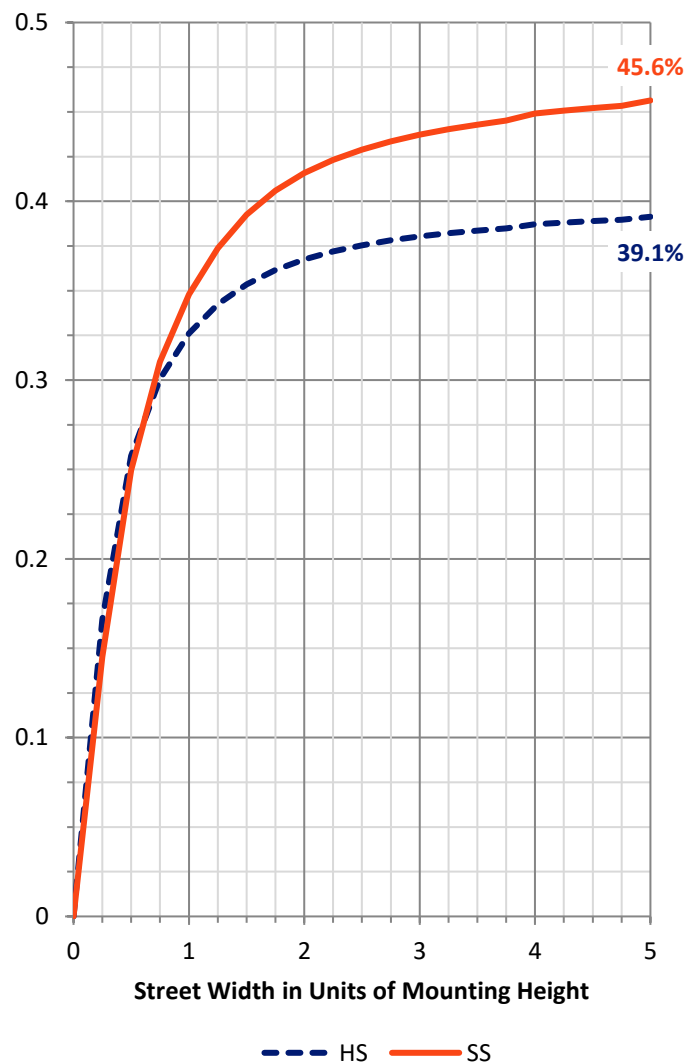
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1981.5	212.5	2193.9
	% Fixture	40.2	4.3	44.5
Street Side	Lumens	2312.3	423.8	2736.1
	% Fixture	46.9	8.6	55.5
Total	Lumens	4293.8	636.2	4930.0
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.4	6.7
10°-20°	710.7	14.4
20°-30°	782.6	15.9
30°-40°	575.0	11.7
40°-50°	481.8	9.8
50°-60°	483.4	9.8
60°-70°	414.0	8.4
70°-80°	308.5	6.3
80°-90°	206.4	4.2
90°-100°	122.6	2.5
100°-110°	71.2	1.4
110°-120°	66.2	1.3
120°-130°	96.0	1.9
130°-140°	129.2	2.6
140°-150°	104.6	2.1
150°-160°	41.3	0.8
160°-170°	5.0	0.1
170°-180°	0.0	0.0
0°-90°	4293.8	87.1
0°-180°	4930.0	100.0

Coefficient of Utilization



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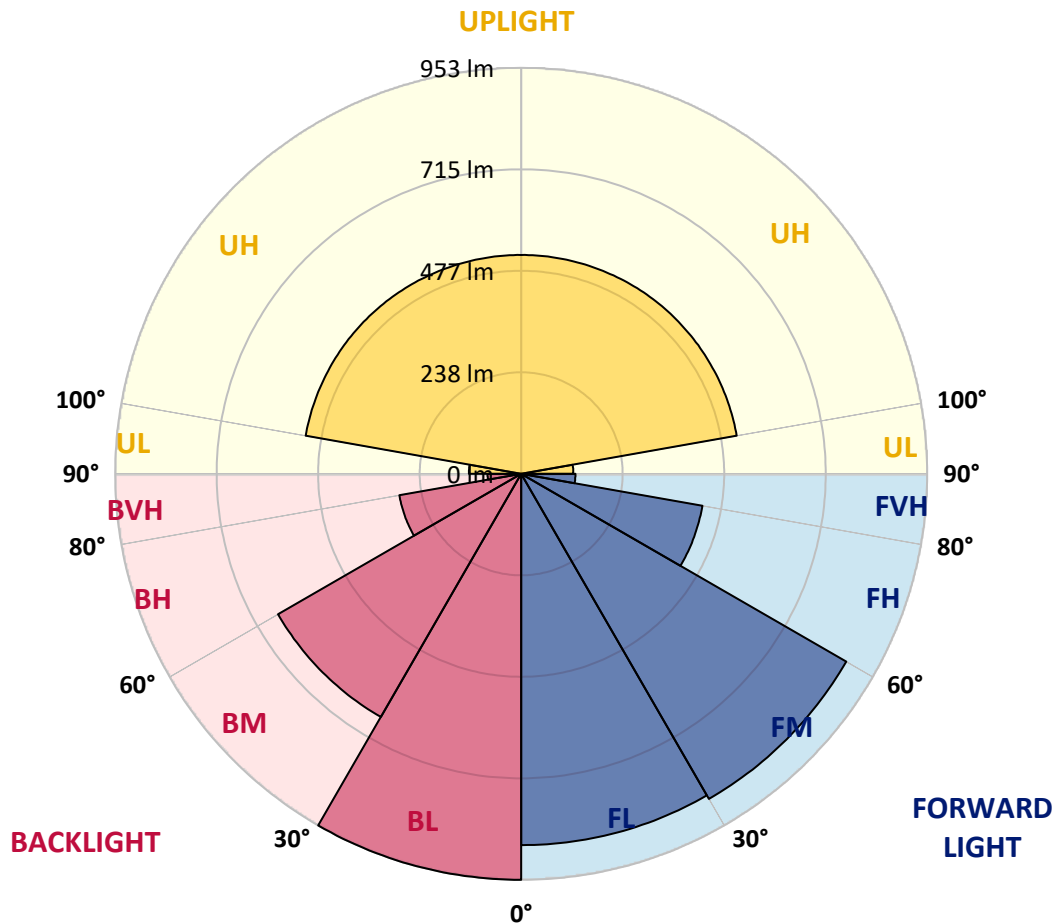
CATALOG NUMBER: CRTK2-C016-D-U-T3-7040-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	871.7	17.7			
FM	(30°-60°)	881.2	17.9			
FH	(60°-80°)	432.1	8.8			G0/660
FVH	(80°-90°)	127.4	2.6			G2/225
BL	(0°-30°)	953.0	19.3	B2/1000		
BM	(30°-60°)	659.0	13.4	B1/1000		
BH	(60°-80°)	290.4	5.9	B1/500		G1/500
BVH	(80°-90°)	79.0	1.6			G1/100
UL	(90°-100°)	122.6	2.5		U3/500	
UH	(100°-180°)	513.6	10.4		U4/1000	

BUG Rating: B2-U4-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4126.9	4126.9	4126.9	4126.9	4126.9	4126.9	4126.9	4126.9	4126.9	4126.9	4126.9
2.5°	3179.3	3226.3	3249.8	3320.3	3343.8	3388.8	3457.3	3525.9	3641.4	3727.5	3794.1
5°	2605.7	2644.9	2688.0	2778.0	2830.9	2924.8	3034.5	3151.9	3300.7	3451.5	3529.8
7.5°	2271.0	2280.7	2343.4	2453.0	2549.0	2648.8	2768.2	2870.0	2971.8	3095.2	3173.5
10°	2086.9	2100.6	2141.8	2225.9	2308.2	2390.4	2484.4	2562.7	2666.4	2770.2	2817.2
12.5°	2032.1	2038.0	2073.2	2122.2	2175.0	2227.9	2300.3	2370.8	2462.8	2552.9	2584.2
15°	2081.1	2081.1	2086.9	2106.5	2133.9	2175.0	2229.8	2290.5	2374.7	2441.3	2474.6
17.5°	2104.6	2106.5	2122.2	2126.1	2151.5	2169.2	2218.1	2265.1	2345.4	2400.2	2417.8
20°	2167.2	2167.2	2169.2	2178.9	2182.9	2192.7	2214.2	2239.6	2306.2	2335.6	2331.6
22.5°	2186.8	2178.9	2210.3	2267.0	2265.1	2267.0	2247.5	2253.3	2290.5	2278.8	2251.4
25°	1795.2	1785.4	1820.7	1855.9	1906.8	1971.4	2132.0	2257.3	2304.2	2267.0	2206.4
27.5°	1669.9	1626.9	1617.1	1532.9	1456.5	1331.3	1319.5	1241.2	1233.4	1282.3	1327.3
30°	1186.4	1188.3	1186.4	1178.6	1172.7	1178.6	1184.4	1170.7	1174.6	1206.0	1192.3
32.5°	1157.0	1157.0	1149.2	1145.3	1127.6	1121.8	1112.0	1086.5	1090.5	1113.9	1108.1
35°	1078.7	1074.8	1076.7	1067.0	1035.6	1010.2	1006.3	984.7	984.7	998.4	992.6
37.5°	961.2	955.4	978.9	976.9	951.5	941.7	931.9	918.2	918.2	929.9	918.2
40°	869.2	865.3	890.8	898.6	882.9	886.8	888.8	877.1	888.8	890.8	875.1
42.5°	771.3	769.4	790.9	789.0	775.3	773.3	771.3	763.5	783.1	798.8	787.0
45°	655.8	650.0	665.6	671.5	667.6	661.7	659.8	659.8	671.5	679.3	667.6
47.5°	579.5	581.4	593.2	606.9	610.8	614.7	612.8	608.9	616.7	618.6	608.9
50°	554.0	556.0	573.6	589.3	601.0	608.9	608.9	603.0	608.9	603.0	589.3
52.5°	565.8	565.8	589.3	612.8	632.3	646.0	648.0	640.2	640.2	624.5	603.0
55°	569.7	573.6	604.9	644.1	679.3	716.5	734.1	728.3	734.1	700.9	665.6
57.5°	532.5	542.3	573.6	620.6	667.6	726.3	763.5	767.4	765.5	736.1	693.0
60°	483.6	491.4	512.9	554.0	599.1	646.0	683.2	691.1	698.9	685.2	646.0
62.5°	450.3	454.2	471.8	501.2	532.5	558.0	571.7	569.7	577.5	573.6	544.2
65°	420.9	422.9	442.4	465.9	485.5	511.0	514.9	514.9	520.8	512.9	489.4
67.5°	389.6	389.6	405.2	426.8	450.3	471.8	477.7	479.6	487.5	479.6	462.0
70°	362.2	362.2	375.9	393.5	411.1	432.7	438.5	440.5	450.3	440.5	422.9
72.5°	336.7	336.7	348.5	364.1	379.8	397.4	403.3	405.2	413.1	403.3	389.6
75°	309.3	311.3	321.1	334.8	348.5	364.1	372.0	372.0	377.8	366.1	354.3
77.5°	281.9	283.9	293.7	305.4	317.2	332.8	336.7	338.7	344.6	332.8	321.1
80°	254.5	258.4	266.3	276.0	287.8	299.5	307.4	307.4	311.3	299.5	291.7
82.5°	229.1	233.0	238.8	246.7	258.4	270.2	278.0	278.0	280.0	270.2	260.4
85°	203.6	207.5	213.4	219.3	229.1	240.8	248.6	248.6	250.6	240.8	233.0
87.5°	180.1	184.0	187.9	193.8	201.6	213.4	221.2	221.2	221.2	213.4	205.6
90°	156.6	158.6	162.5	168.4	176.2	186.0	191.9	193.8	193.8	184.0	180.1
92.5°	139.0	139.0	142.9	146.8	154.7	162.5	168.4	170.3	170.3	164.4	158.6
95°	119.4	121.4	123.3	127.3	133.1	139.0	146.8	146.8	146.8	142.9	139.0
97.5°	105.7	103.8	105.7	107.7	113.5	117.5	123.3	125.3	125.3	121.4	119.4
100°	90.1	92.0	92.0	94.0	95.9	97.9	101.8	103.8	103.8	101.8	101.8
102.5°	84.2	82.2	82.2	82.2	82.2	82.2	84.2	84.2	86.1	84.2	82.2
105°	78.3	78.3	78.3	78.3	76.4	76.4	76.4	76.4	74.4	72.4	72.4
107.5°	76.4	76.4	76.4	76.4	74.4	74.4	72.4	72.4	70.5	68.5	66.6
110°	76.4	76.4	76.4	76.4	74.4	72.4	72.4	70.5	68.5	66.6	64.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	80.3	80.3	80.3	80.3	76.4	74.4	72.4	72.4	68.5	66.6	64.6
115°	88.1	88.1	86.1	86.1	84.2	80.3	78.3	76.4	74.4	70.5	68.5
117.5°	95.9	95.9	95.9	95.9	94.0	90.1	86.1	84.2	82.2	76.4	74.4
120°	109.6	109.6	109.6	111.6	107.7	103.8	99.8	95.9	94.0	88.1	84.2
122.5°	127.3	125.3	129.2	131.2	129.2	123.3	117.5	113.5	109.6	101.8	97.9
125°	144.9	144.9	148.8	154.7	154.7	148.8	141.0	135.1	131.2	119.4	113.5
127.5°	166.4	166.4	172.3	182.1	184.0	178.2	170.3	162.5	156.6	141.0	135.1
130°	186.0	186.0	197.7	209.5	215.3	209.5	201.6	191.9	184.0	166.4	156.6
132.5°	201.6	203.6	217.3	233.0	240.8	238.8	229.1	221.2	213.4	191.9	180.1
135°	217.3	219.3	234.9	254.5	264.3	264.3	256.5	246.7	236.9	213.4	199.7
137.5°	225.1	227.1	246.7	266.3	278.0	281.9	278.0	268.2	258.4	233.0	215.3
140°	225.1	229.1	248.6	268.2	280.0	285.8	285.8	276.0	266.3	242.8	225.1
142.5°	219.3	223.2	240.8	260.4	272.1	280.0	281.9	274.1	264.3	240.8	223.2
145°	207.5	209.5	227.1	244.7	256.5	266.3	270.2	264.3	252.5	233.0	215.3
147.5°	187.9	187.9	203.6	217.3	233.0	242.8	248.6	244.7	234.9	217.3	201.6
150°	160.5	160.5	172.3	186.0	199.7	211.4	217.3	217.3	207.5	193.8	178.2
152.5°	127.3	129.2	137.0	148.8	162.5	172.3	180.1	180.1	174.2	162.5	148.8
155°	97.9	97.9	103.8	111.6	123.3	133.1	139.0	139.0	135.1	125.3	117.5
157.5°	70.5	70.5	74.4	82.2	90.1	97.9	103.8	103.8	99.8	94.0	88.1
160°	47.0	47.0	48.9	54.8	60.7	66.6	70.5	72.4	70.5	66.6	60.7
162.5°	25.5	25.5	27.4	31.3	35.2	41.1	43.1	45.0	45.0	41.1	39.2
165°	7.8	7.8	7.8	11.7	13.7	17.6	19.6	21.5	21.5	21.5	19.6
167.5°	2.0	2.0	2.0	2.0	2.0	2.0	3.9	5.9	5.9	5.9	5.9
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	4126.9	4126.9	4126.9	4126.9	4126.9	4126.9	4126.9	4126.9	4126.9	4126.9	4126.9
2.5°	3856.7	4001.6	4162.1	4326.6	4494.9	4653.5	4786.6	4892.4	4949.1	4962.8	4955.0
5°	3600.3	3770.6	3958.5	4150.4	4369.6	4622.2	4853.2	5019.6	5105.7	5119.4	5123.4
7.5°	3234.2	3382.9	3567.0	3788.2	4064.2	4334.4	4690.7	4939.3	5078.3	5115.5	5115.5
10°	2848.5	2979.7	3095.2	3289.0	3529.8	3782.3	4085.8	4314.8	4455.8	4500.8	4461.7
12.5°	2631.2	2688.0	2766.3	2909.2	3059.9	3251.8	3514.1	3662.9	3754.9	3782.3	3758.8
15°	2492.2	2521.5	2554.8	2615.5	2721.2	2840.7	2995.3	3087.3	3144.1	3177.4	3165.6
17.5°	2425.6	2425.6	2419.7	2433.5	2460.9	2515.7	2621.4	2654.7	2680.1	2693.8	2686.0
20°	2323.8	2292.5	2267.0	2227.9	2212.2	2210.3	2235.7	2271.0	2269.0	2271.0	2255.3
22.5°	2222.0	2157.4	2094.8	2036.0	1969.5	1936.2	1912.7	1924.4	1914.7	1924.4	1914.7
25°	2173.1	2041.9	1916.6	1773.7	1654.3	1562.3	1501.6	1464.4	1401.7	1425.2	1403.7
27.5°	1348.9	1294.1	1241.2	1135.5	1035.6	1000.4	971.0	955.4	943.6	949.5	945.6
30°	1168.8	1123.7	1082.6	1027.8	951.5	904.5	869.2	837.9	828.1	830.1	828.1
32.5°	1084.6	1049.3	998.4	941.7	873.1	814.4	773.3	743.9	728.3	738.1	730.2
35°	971.0	935.8	892.7	839.9	781.1	728.3	689.1	661.7	644.1	648.0	646.0
37.5°	896.6	863.4	826.2	769.4	718.5	667.6	628.4	601.0	583.4	587.3	583.4
40°	853.6	816.4	777.2	726.3	675.4	622.6	585.4	554.0	536.4	536.4	536.4
42.5°	765.5	736.1	702.8	650.0	604.9	559.9	522.7	499.2	479.6	481.6	477.7
45°	653.9	632.3	606.9	571.7	534.5	499.2	467.9	450.3	434.6	436.6	434.6
47.5°	597.1	577.5	548.2	520.8	487.5	456.1	428.7	407.2	395.5	397.4	393.5
50°	575.6	552.1	518.8	481.6	450.3	419.0	391.5	375.9	364.1	366.1	364.1
52.5°	583.4	546.2	499.2	454.2	417.0	385.7	364.1	346.5	338.7	340.6	336.7
55°	634.3	569.7	499.2	442.4	395.5	360.2	338.7	319.1	311.3	311.3	311.3
57.5°	651.9	581.4	493.3	428.7	377.8	342.6	317.2	297.6	289.7	289.7	289.7
60°	610.8	550.1	469.9	409.2	362.2	328.9	307.4	293.7	287.8	287.8	287.8
62.5°	522.7	483.6	422.9	373.9	338.7	309.3	287.8	270.2	264.3	262.3	262.3
65°	473.8	436.6	385.7	344.6	313.2	289.7	270.2	256.5	248.6	248.6	248.6
67.5°	442.4	407.2	360.2	321.1	291.7	266.3	248.6	234.9	231.0	229.1	229.1
70°	407.2	373.9	326.9	291.7	264.3	242.8	225.1	213.4	209.5	209.5	207.5
72.5°	372.0	340.6	295.6	262.3	236.9	217.3	201.6	191.9	187.9	186.0	186.0
75°	338.7	307.4	266.3	234.9	211.4	193.8	180.1	170.3	166.4	166.4	166.4
77.5°	307.4	278.0	238.8	209.5	189.9	172.3	160.5	152.7	148.8	148.8	148.8
80°	278.0	248.6	213.4	186.0	166.4	152.7	142.9	135.1	131.2	133.1	131.2
82.5°	246.7	223.2	189.9	164.4	148.8	135.1	125.3	119.4	115.5	117.5	115.5
85°	221.2	197.7	166.4	144.9	129.2	117.5	109.6	103.8	99.8	101.8	99.8
87.5°	195.8	174.2	146.8	127.3	113.5	103.8	94.0	90.1	88.1	88.1	86.1
90°	168.4	148.8	125.3	109.6	95.9	88.1	80.3	76.4	74.4	72.4	72.4
92.5°	148.8	133.1	111.6	97.9	86.1	80.3	72.4	68.5	66.6	66.6	66.6
95°	131.2	117.5	99.8	88.1	80.3	72.4	66.6	64.6	62.6	62.6	60.7
97.5°	113.5	101.8	90.1	80.3	72.4	66.6	60.7	58.7	56.8	56.8	56.8
100°	95.9	88.1	78.3	70.5	64.6	60.7	54.8	52.9	50.9	50.9	50.9
102.5°	80.3	74.4	66.6	60.7	56.8	52.9	48.9	47.0	45.0	45.0	45.0
105°	70.5	64.6	60.7	54.8	50.9	47.0	45.0	41.1	39.2	39.2	39.2
107.5°	64.6	60.7	56.8	52.9	48.9	45.0	41.1	37.2	35.2	35.2	35.2
110°	62.6	58.7	54.8	50.9	47.0	43.1	41.1	35.2	33.3	33.3	33.3

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	62.6	60.7	56.8	52.9	48.9	45.0	41.1	33.3	31.3	31.3	31.3
115°	66.6	62.6	58.7	54.8	50.9	47.0	43.1	33.3	31.3	31.3	31.3
117.5°	72.4	68.5	62.6	58.7	54.8	48.9	43.1	35.2	31.3	31.3	31.3
120°	82.2	76.4	70.5	64.6	58.7	52.9	45.0	35.2	29.4	31.3	31.3
122.5°	94.0	88.1	78.3	70.5	64.6	56.8	47.0	37.2	29.4	31.3	31.3
125°	109.6	101.8	90.1	80.3	70.5	60.7	48.9	37.2	29.4	31.3	33.3
127.5°	127.3	115.5	101.8	88.1	76.4	64.6	52.9	39.2	29.4	33.3	33.3
130°	146.8	133.1	115.5	97.9	84.2	68.5	54.8	39.2	31.3	31.3	31.3
132.5°	168.4	148.8	125.3	105.7	88.1	70.5	54.8	39.2	31.3	31.3	31.3
135°	184.0	160.5	135.1	111.6	92.0	72.4	56.8	39.2	29.4	29.4	29.4
137.5°	197.7	170.3	142.9	115.5	94.0	72.4	54.8	37.2	29.4	27.4	27.4
140°	205.6	174.2	142.9	115.5	92.0	70.5	50.9	35.2	25.5	25.5	25.5
142.5°	205.6	172.3	141.0	111.6	86.1	66.6	48.9	31.3	23.5	23.5	23.5
145°	197.7	164.4	133.1	105.7	80.3	60.7	43.1	29.4	21.5	21.5	21.5
147.5°	184.0	150.7	121.4	95.9	70.5	52.9	37.2	23.5	17.6	17.6	17.6
150°	164.4	133.1	105.7	82.2	60.7	43.1	31.3	19.6	13.7	13.7	13.7
152.5°	137.0	111.6	86.1	68.5	48.9	35.2	23.5	15.7	11.7	11.7	11.7
155°	107.7	88.1	68.5	52.9	37.2	25.5	17.6	11.7	7.8	7.8	7.8
157.5°	82.2	66.6	50.9	39.2	27.4	19.6	13.7	7.8	5.9	5.9	5.9
160°	56.8	45.0	35.2	27.4	17.6	13.7	9.8	5.9	3.9	3.9	3.9
162.5°	37.2	29.4	21.5	15.7	11.7	7.8	5.9	3.9	2.0	2.0	2.0
165°	17.6	13.7	11.7	7.8	5.9	3.9	2.0	2.0	0.0	0.0	0.0
167.5°	5.9	3.9	3.9	2.0	2.0	2.0	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)