

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: P691506

Luminaire Tested: **CRTK2-C016-D-U-T3-7030-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691506
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-T3-7030-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K LED WITH TYPE III OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4788 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B2 - U3 - 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

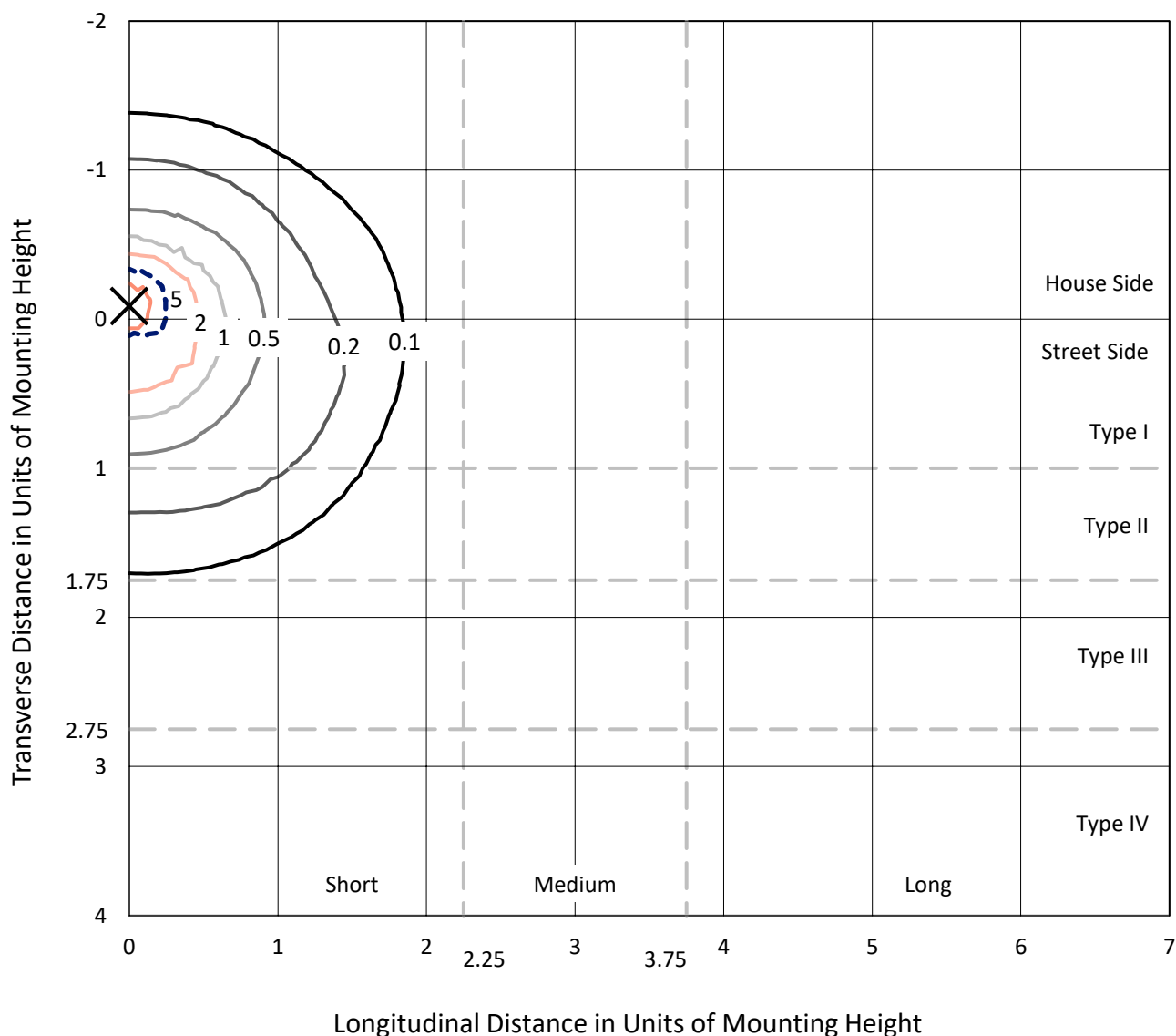


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

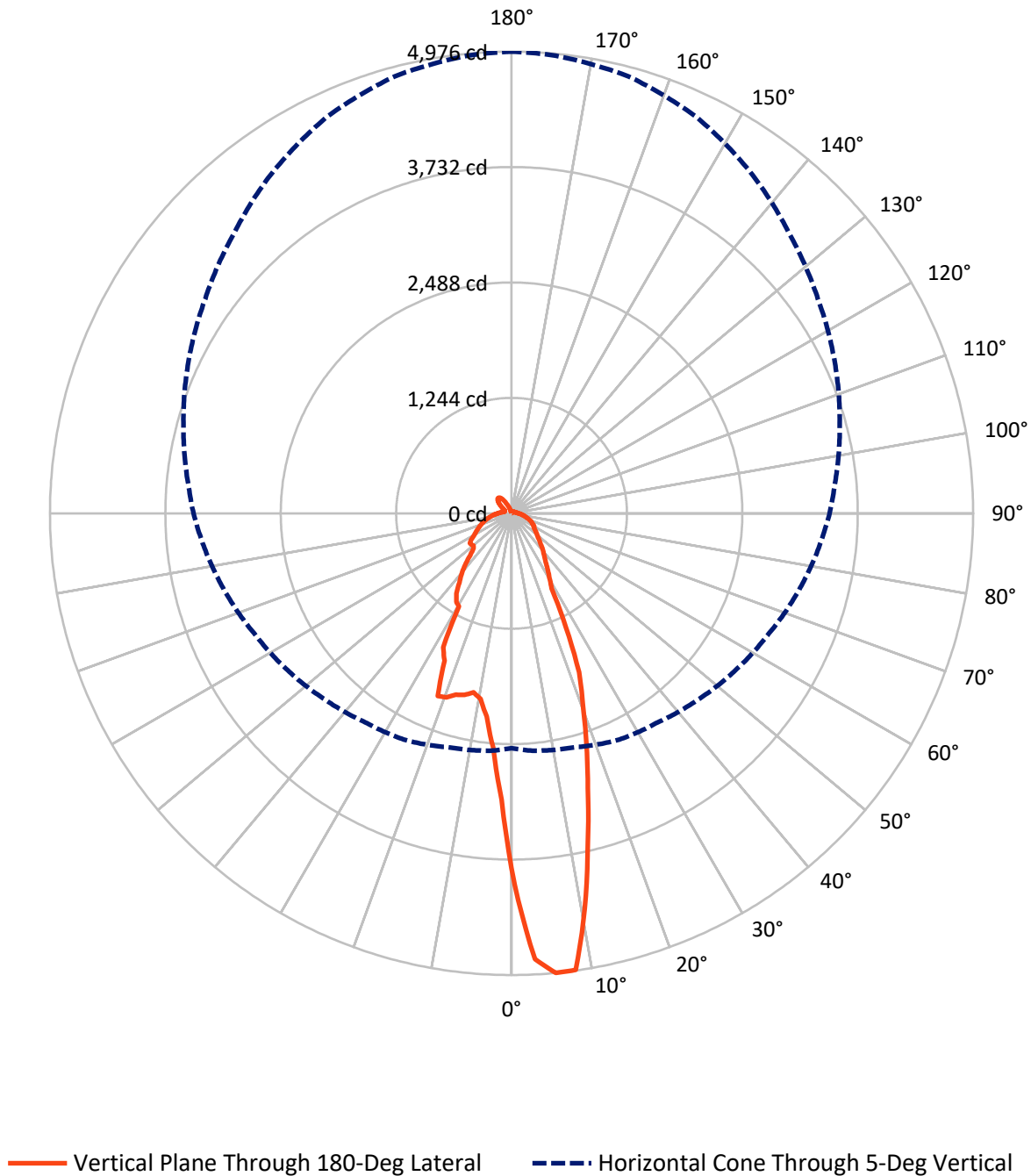


Based on 25 foot mounting height. Maximum calculated value = 7.8 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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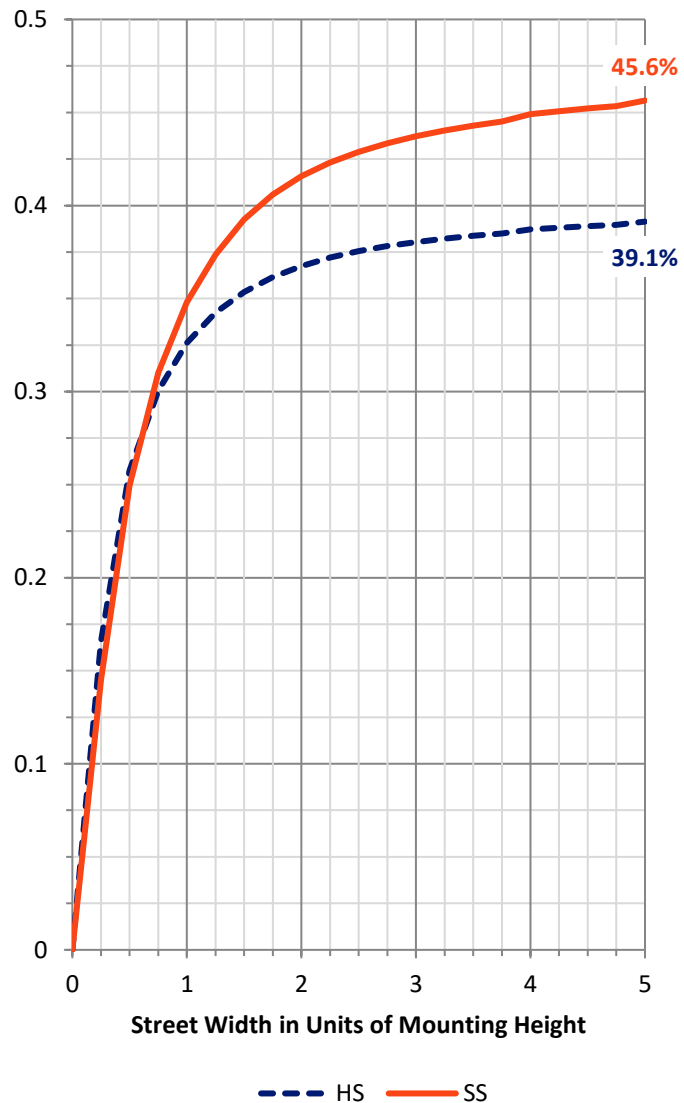
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1924.4	206.3	2130.7
	% Fixture	40.2	4.3	44.5
Street Side	Lumens	2245.7	411.6	2657.3
	% Fixture	46.9	8.6	55.5
Total	Lumens	4170.1	617.9	4788.0
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.8	6.7
10°-20°	690.3	14.4
20°-30°	760.0	15.9
30°-40°	558.5	11.7
40°-50°	467.9	9.8
50°-60°	469.5	9.8
60°-70°	402.1	8.4
70°-80°	299.6	6.3
80°-90°	200.5	4.2
90°-100°	119.1	2.5
100°-110°	69.1	1.4
110°-120°	64.3	1.3
120°-130°	93.3	1.9
130°-140°	125.5	2.6
140°-150°	101.6	2.1
150°-160°	40.1	0.8
160°-170°	4.9	0.1
170°-180°	0.0	0.0
0°-90°	4170.1	87.1
0°-180°	4788.0	100.0

Coefficient of Utilization



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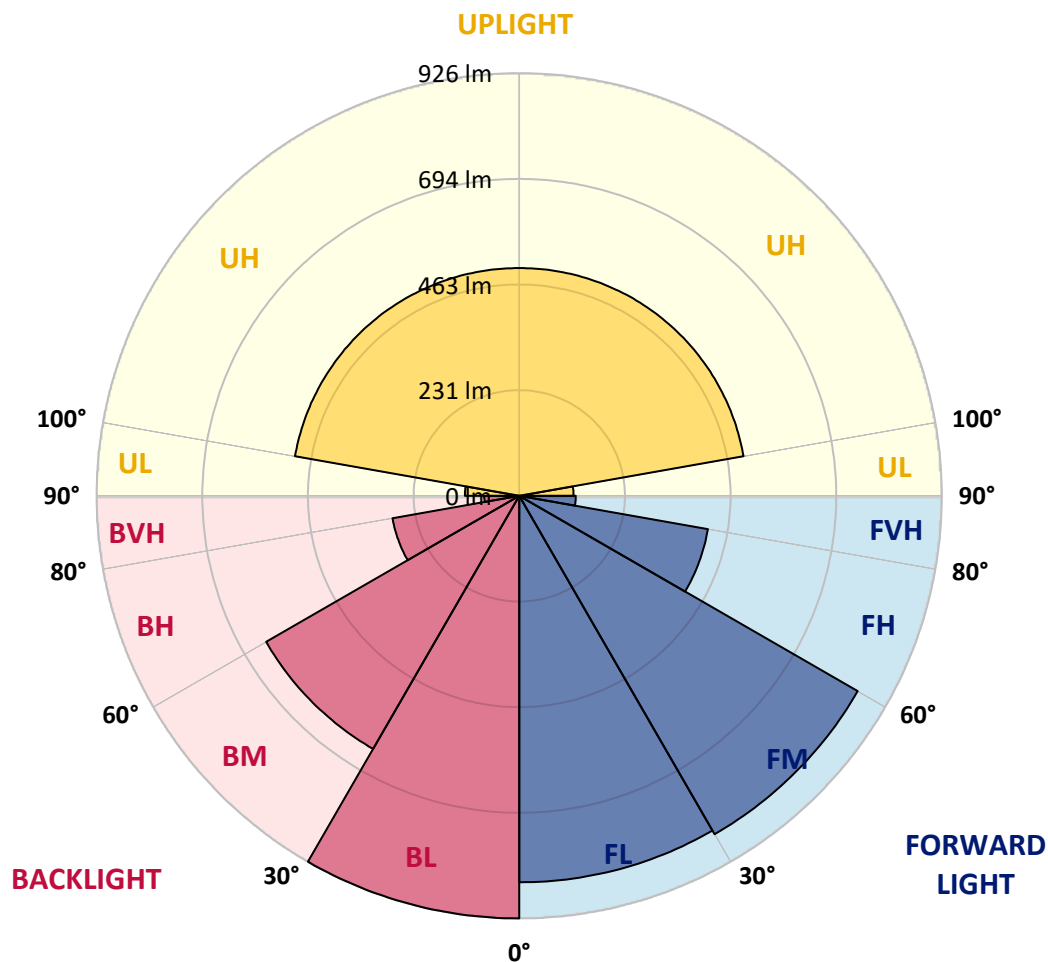
CATALOG NUMBER: CRTK2-C016-D-U-T3-7030-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	846.6	17.7			
FM	(30°-60°)	855.8	17.9			
FH	(60°-80°)	419.6	8.8			G0/660
FVH	(80°-90°)	123.7	2.6			G2/225
BL	(0°-30°)	925.6	19.3	B2/1000		
BM	(30°-60°)	640.1	13.4	B1/1000		
BH	(60°-80°)	282.0	5.9	B1/500		G1/500
BVH	(80°-90°)	76.7	1.6			G1/100
UL	(90°-100°)	119.1	2.5		U3/500	
UH	(100°-180°)	498.8	10.4		U3/500	

BUG Rating: B2-U3-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4008.0	4008.0	4008.0	4008.0	4008.0	4008.0	4008.0	4008.0	4008.0	4008.0	4008.0
2.5°	3087.8	3133.4	3156.2	3224.7	3247.5	3291.2	3357.8	3424.3	3536.5	3620.1	3684.8
5°	2530.7	2568.7	2610.5	2698.0	2749.3	2840.6	2947.1	3061.2	3205.7	3352.1	3428.1
7.5°	2205.5	2215.1	2275.9	2382.4	2475.5	2572.5	2688.5	2787.4	2886.2	3006.0	3082.1
10°	2026.8	2040.1	2080.1	2161.8	2241.7	2321.5	2412.8	2488.8	2589.6	2690.4	2736.0
12.5°	1973.6	1979.3	2013.5	2061.0	2112.4	2163.7	2234.1	2302.5	2391.9	2479.3	2509.8
15°	2021.1	2021.1	2026.8	2045.8	2072.5	2112.4	2165.6	2224.6	2306.3	2371.0	2403.3
17.5°	2043.9	2045.8	2061.0	2064.9	2089.6	2106.7	2154.2	2199.8	2277.8	2331.0	2348.1
20°	2104.8	2104.8	2106.7	2116.2	2120.0	2129.5	2150.4	2175.1	2239.8	2268.3	2264.5
22.5°	2123.8	2116.2	2146.6	2201.7	2199.8	2201.7	2182.7	2188.4	2224.6	2213.2	2186.5
25°	1743.5	1734.0	1768.2	1802.5	1851.9	1914.6	2070.6	2192.2	2237.9	2201.7	2142.8
27.5°	1621.8	1580.0	1570.5	1488.7	1414.6	1292.9	1281.5	1205.4	1197.8	1245.4	1289.1
30°	1152.2	1154.1	1152.2	1144.6	1138.9	1144.6	1150.3	1137.0	1140.8	1171.2	1157.9
32.5°	1123.7	1123.7	1116.1	1112.3	1095.2	1089.5	1080.0	1055.2	1059.0	1081.9	1076.2
35°	1047.6	1043.8	1045.7	1036.2	1005.8	981.1	977.3	956.4	956.4	969.7	964.0
37.5°	933.6	927.9	950.7	948.8	924.0	914.5	905.0	891.7	891.7	903.1	891.7
40°	844.2	840.4	865.1	872.7	857.5	861.3	863.2	851.8	863.2	865.1	849.9
42.5°	749.1	747.2	768.1	766.2	752.9	751.0	749.1	741.5	760.5	775.7	764.3
45°	636.9	631.2	646.5	652.2	648.4	642.7	640.8	640.8	652.2	659.8	648.4
47.5°	562.8	564.7	576.1	589.4	593.2	597.0	595.1	591.3	598.9	600.8	591.3
50°	538.1	540.0	557.1	572.3	583.7	591.3	591.3	585.6	591.3	585.6	572.3
52.5°	549.5	549.5	572.3	595.1	614.1	627.4	629.3	621.7	621.7	606.5	585.6
55°	553.3	557.1	587.5	625.5	659.8	695.9	713.0	707.3	713.0	680.7	646.5
57.5°	517.2	526.7	557.1	602.7	648.4	705.4	741.5	745.3	743.4	714.9	673.1
60°	469.6	477.2	498.1	538.1	581.8	627.4	663.6	671.2	678.8	665.5	627.4
62.5°	437.3	441.1	458.2	486.7	517.2	541.9	555.2	553.3	560.9	557.1	528.6
65°	408.8	410.7	429.7	452.5	471.5	496.2	500.1	500.1	505.8	498.1	475.3
67.5°	378.4	378.4	393.6	414.5	437.3	458.2	463.9	465.8	473.4	465.8	448.7
70°	351.7	351.7	365.1	382.2	399.3	420.2	425.9	427.8	437.3	427.8	410.7
72.5°	327.0	327.0	338.4	353.6	368.9	386.0	391.7	393.6	401.2	391.7	378.4
75°	300.4	302.3	311.8	325.1	338.4	353.6	361.3	361.3	367.0	355.5	344.1
77.5°	273.8	275.7	285.2	296.6	308.0	323.2	327.0	328.9	334.6	323.2	311.8
80°	247.2	251.0	258.6	268.1	279.5	290.9	298.5	298.5	302.3	290.9	283.3
82.5°	222.5	226.3	232.0	239.6	251.0	262.4	270.0	270.0	271.9	262.4	252.9
85°	197.7	201.5	207.2	212.9	222.5	233.9	241.5	241.5	243.4	233.9	226.3
87.5°	174.9	178.7	182.5	188.2	195.8	207.2	214.9	214.9	214.9	207.2	199.6
90°	152.1	154.0	157.8	163.5	171.1	180.6	186.3	188.2	188.2	178.7	174.9
92.5°	135.0	135.0	138.8	142.6	150.2	157.8	163.5	165.4	165.4	159.7	154.0
95°	116.0	117.9	119.8	123.6	129.3	135.0	142.6	142.6	142.6	138.8	135.0
97.5°	102.7	100.8	102.7	104.6	110.3	114.1	119.8	121.7	121.7	117.9	116.0
100°	87.5	89.4	89.4	91.3	93.2	95.1	98.9	100.8	100.8	98.9	98.9
102.5°	81.8	79.9	79.9	79.9	79.9	79.9	81.8	81.8	83.7	81.8	79.9
105°	76.1	76.1	76.1	76.1	74.2	74.2	74.2	74.2	72.3	70.3	70.3
107.5°	74.2	74.2	74.2	74.2	72.3	72.3	70.3	70.3	68.4	66.5	64.6
110°	74.2	74.2	74.2	74.2	72.3	70.3	70.3	68.4	66.5	64.6	62.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	78.0	78.0	78.0	78.0	74.2	72.3	70.3	70.3	66.5	64.6	62.7
115°	85.6	85.6	83.7	83.7	81.8	78.0	76.1	74.2	72.3	68.4	66.5
117.5°	93.2	93.2	93.2	93.2	91.3	87.5	83.7	81.8	79.9	74.2	72.3
120°	106.5	106.5	106.5	108.4	104.6	100.8	97.0	93.2	91.3	85.6	81.8
122.5°	123.6	121.7	125.5	127.4	125.5	119.8	114.1	110.3	106.5	98.9	95.1
125°	140.7	140.7	144.5	150.2	150.2	144.5	136.9	131.2	127.4	116.0	110.3
127.5°	161.6	161.6	167.3	176.8	178.7	173.0	165.4	157.8	152.1	136.9	131.2
130°	180.6	180.6	192.0	203.4	209.1	203.4	195.8	186.3	178.7	161.6	152.1
132.5°	195.8	197.7	211.0	226.3	233.9	232.0	222.5	214.9	207.2	186.3	174.9
135°	211.0	212.9	228.2	247.2	256.7	256.7	249.1	239.6	230.1	207.2	193.9
137.5°	218.7	220.6	239.6	258.6	270.0	273.8	270.0	260.5	251.0	226.3	209.1
140°	218.7	222.5	241.5	260.5	271.9	277.6	277.6	268.1	258.6	235.8	218.7
142.5°	212.9	216.8	233.9	252.9	264.3	271.9	273.8	266.2	256.7	233.9	216.8
145°	201.5	203.4	220.6	237.7	249.1	258.6	262.4	256.7	245.3	226.3	209.1
147.5°	182.5	182.5	197.7	211.0	226.3	235.8	241.5	237.7	228.2	211.0	195.8
150°	155.9	155.9	167.3	180.6	193.9	205.3	211.0	211.0	201.5	188.2	173.0
152.5°	123.6	125.5	133.1	144.5	157.8	167.3	174.9	174.9	169.2	157.8	144.5
155°	95.1	95.1	100.8	108.4	119.8	129.3	135.0	135.0	131.2	121.7	114.1
157.5°	68.4	68.4	72.3	79.9	87.5	95.1	100.8	100.8	97.0	91.3	85.6
160°	45.6	45.6	47.5	53.2	58.9	64.6	68.4	70.3	68.4	64.6	58.9
162.5°	24.7	24.7	26.6	30.4	34.2	39.9	41.8	43.7	43.7	39.9	38.0
165°	7.6	7.6	7.6	11.4	13.3	17.1	19.0	20.9	20.9	20.9	19.0
167.5°	1.9	1.9	1.9	1.9	1.9	1.9	3.8	5.7	5.7	5.7	5.7
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	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°	4008.0	4008.0	4008.0	4008.0	4008.0	4008.0	4008.0	4008.0	4008.0	4008.0	4008.0
2.5°	3745.6	3886.3	4042.2	4202.0	4365.5	4519.5	4648.8	4751.4	4806.6	4819.9	4812.3
5°	3496.6	3662.0	3844.5	4030.8	4243.8	4489.1	4713.4	4875.0	4958.7	4972.0	4975.8
7.5°	3141.0	3285.5	3464.2	3679.1	3947.2	4209.6	4555.6	4797.1	4932.1	4968.2	4968.2
10°	2766.4	2893.8	3006.0	3194.2	3428.1	3673.4	3968.1	4190.5	4327.4	4371.2	4333.1
12.5°	2555.4	2610.5	2686.6	2825.4	2971.8	3158.1	3412.9	3557.4	3646.8	3673.4	3650.6
15°	2420.4	2448.9	2481.2	2540.2	2642.9	2758.8	2909.0	2998.4	3053.5	3085.9	3074.5
17.5°	2355.8	2355.8	2350.1	2363.4	2390.0	2443.2	2545.9	2578.2	2602.9	2616.2	2608.6
20°	2256.9	2226.5	2201.7	2163.7	2148.5	2146.6	2171.3	2205.5	2203.6	2205.5	2190.3
22.5°	2158.0	2095.3	2034.4	1977.4	1912.7	1880.4	1857.6	1869.0	1859.5	1869.0	1859.5
25°	2110.5	1983.1	1861.4	1722.6	1606.6	1517.3	1458.3	1422.2	1361.4	1384.2	1363.3
27.5°	1310.0	1256.8	1205.4	1102.8	1005.8	971.6	943.1	927.9	916.4	922.1	918.3
30°	1135.1	1091.4	1051.4	998.2	924.0	878.4	844.2	813.8	804.3	806.2	804.3
32.5°	1053.3	1019.1	969.7	914.5	848.0	791.0	751.0	722.5	707.3	716.8	709.2
35°	943.1	908.8	867.0	815.7	758.6	707.3	669.3	642.7	625.5	629.3	627.4
37.5°	870.8	838.5	802.4	747.2	697.8	648.4	610.3	583.7	566.6	570.4	566.6
40°	829.0	792.9	754.8	705.4	656.0	604.6	568.5	538.1	521.0	521.0	521.0
42.5°	743.4	714.9	682.6	631.2	587.5	543.8	507.7	484.8	465.8	467.7	463.9
45°	635.0	614.1	589.4	555.2	519.1	484.8	454.4	437.3	422.1	424.0	422.1
47.5°	579.9	560.9	532.4	505.8	473.4	443.0	416.4	395.5	384.1	386.0	382.2
50°	559.0	536.2	503.9	467.7	437.3	406.9	380.3	365.1	353.6	355.5	353.6
52.5°	566.6	530.5	484.8	441.1	405.0	374.6	353.6	336.5	328.9	330.8	327.0
55°	616.0	553.3	484.8	429.7	384.1	349.8	328.9	309.9	302.3	302.3	302.3
57.5°	633.1	564.7	479.1	416.4	367.0	332.7	308.0	289.0	281.4	281.4	281.4
60°	593.2	534.3	456.3	397.4	351.7	319.4	298.5	285.2	279.5	279.5	279.5
62.5°	507.7	469.6	410.7	363.2	328.9	300.4	279.5	262.4	256.7	254.8	254.8
65°	460.1	424.0	374.6	334.6	304.2	281.4	262.4	249.1	241.5	241.5	241.5
67.5°	429.7	395.5	349.8	311.8	283.3	258.6	241.5	228.2	224.4	222.5	222.5
70°	395.5	363.2	317.5	283.3	256.7	235.8	218.7	207.2	203.4	203.4	201.5
72.5°	361.3	330.8	287.1	254.8	230.1	211.0	195.8	186.3	182.5	180.6	180.6
75°	328.9	298.5	258.6	228.2	205.3	188.2	174.9	165.4	161.6	161.6	161.6
77.5°	298.5	270.0	232.0	203.4	184.4	167.3	155.9	148.3	144.5	144.5	144.5
80°	270.0	241.5	207.2	180.6	161.6	148.3	138.8	131.2	127.4	129.3	127.4
82.5°	239.6	216.8	184.4	159.7	144.5	131.2	121.7	116.0	112.2	114.1	112.2
85°	214.9	192.0	161.6	140.7	125.5	114.1	106.5	100.8	97.0	98.9	97.0
87.5°	190.1	169.2	142.6	123.6	110.3	100.8	91.3	87.5	85.6	85.6	83.7
90°	163.5	144.5	121.7	106.5	93.2	85.6	78.0	74.2	72.3	70.3	70.3
92.5°	144.5	129.3	108.4	95.1	83.7	78.0	70.3	66.5	64.6	64.6	64.6
95°	127.4	114.1	97.0	85.6	78.0	70.3	64.6	62.7	60.8	60.8	58.9
97.5°	110.3	98.9	87.5	78.0	70.3	64.6	58.9	57.0	55.1	55.1	55.1
100°	93.2	85.6	76.1	68.4	62.7	58.9	53.2	51.3	49.4	49.4	49.4
102.5°	78.0	72.3	64.6	58.9	55.1	51.3	47.5	45.6	43.7	43.7	43.7
105°	68.4	62.7	58.9	53.2	49.4	45.6	43.7	39.9	38.0	38.0	38.0
107.5°	62.7	58.9	55.1	51.3	47.5	43.7	39.9	36.1	34.2	34.2	34.2
110°	60.8	57.0	53.2	49.4	45.6	41.8	39.9	34.2	32.3	32.3	32.3



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	60.8	58.9	55.1	51.3	47.5	43.7	39.9	32.3	30.4	30.4	30.4
115°	64.6	60.8	57.0	53.2	49.4	45.6	41.8	32.3	30.4	30.4	30.4
117.5°	70.3	66.5	60.8	57.0	53.2	47.5	41.8	34.2	30.4	30.4	30.4
120°	79.9	74.2	68.4	62.7	57.0	51.3	43.7	34.2	28.5	30.4	30.4
122.5°	91.3	85.6	76.1	68.4	62.7	55.1	45.6	36.1	28.5	30.4	30.4
125°	106.5	98.9	87.5	78.0	68.4	58.9	47.5	36.1	28.5	30.4	32.3
127.5°	123.6	112.2	98.9	85.6	74.2	62.7	51.3	38.0	28.5	32.3	32.3
130°	142.6	129.3	112.2	95.1	81.8	66.5	53.2	38.0	30.4	30.4	30.4
132.5°	163.5	144.5	121.7	102.7	85.6	68.4	53.2	38.0	30.4	30.4	30.4
135°	178.7	155.9	131.2	108.4	89.4	70.3	55.1	38.0	28.5	28.5	28.5
137.5°	192.0	165.4	138.8	112.2	91.3	70.3	53.2	36.1	28.5	26.6	26.6
140°	199.6	169.2	138.8	112.2	89.4	68.4	49.4	34.2	24.7	24.7	24.7
142.5°	199.6	167.3	136.9	108.4	83.7	64.6	47.5	30.4	22.8	22.8	22.8
145°	192.0	159.7	129.3	102.7	78.0	58.9	41.8	28.5	20.9	20.9	20.9
147.5°	178.7	146.4	117.9	93.2	68.4	51.3	36.1	22.8	17.1	17.1	17.1
150°	159.7	129.3	102.7	79.9	58.9	41.8	30.4	19.0	13.3	13.3	13.3
152.5°	133.1	108.4	83.7	66.5	47.5	34.2	22.8	15.2	11.4	11.4	11.4
155°	104.6	85.6	66.5	51.3	36.1	24.7	17.1	11.4	7.6	7.6	7.6
157.5°	79.9	64.6	49.4	38.0	26.6	19.0	13.3	7.6	5.7	5.7	5.7
160°	55.1	43.7	34.2	26.6	17.1	13.3	9.5	5.7	3.8	3.8	3.8
162.5°	36.1	28.5	20.9	15.2	11.4	7.6	5.7	3.8	1.9	1.9	1.9
165°	17.1	13.3	11.4	7.6	5.7	3.8	1.9	1.9	0.0	0.0	0.0
167.5°	5.7	3.8	3.8	1.9	1.9	1.9	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)