

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: P691537

Luminaire Tested: **CRTK2-C016-D-U-T5R-7030-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-23)
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-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K LED WITH TYPE V ROUND OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5054 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type V - Short
BUG Rating: B2 - U3 - G2

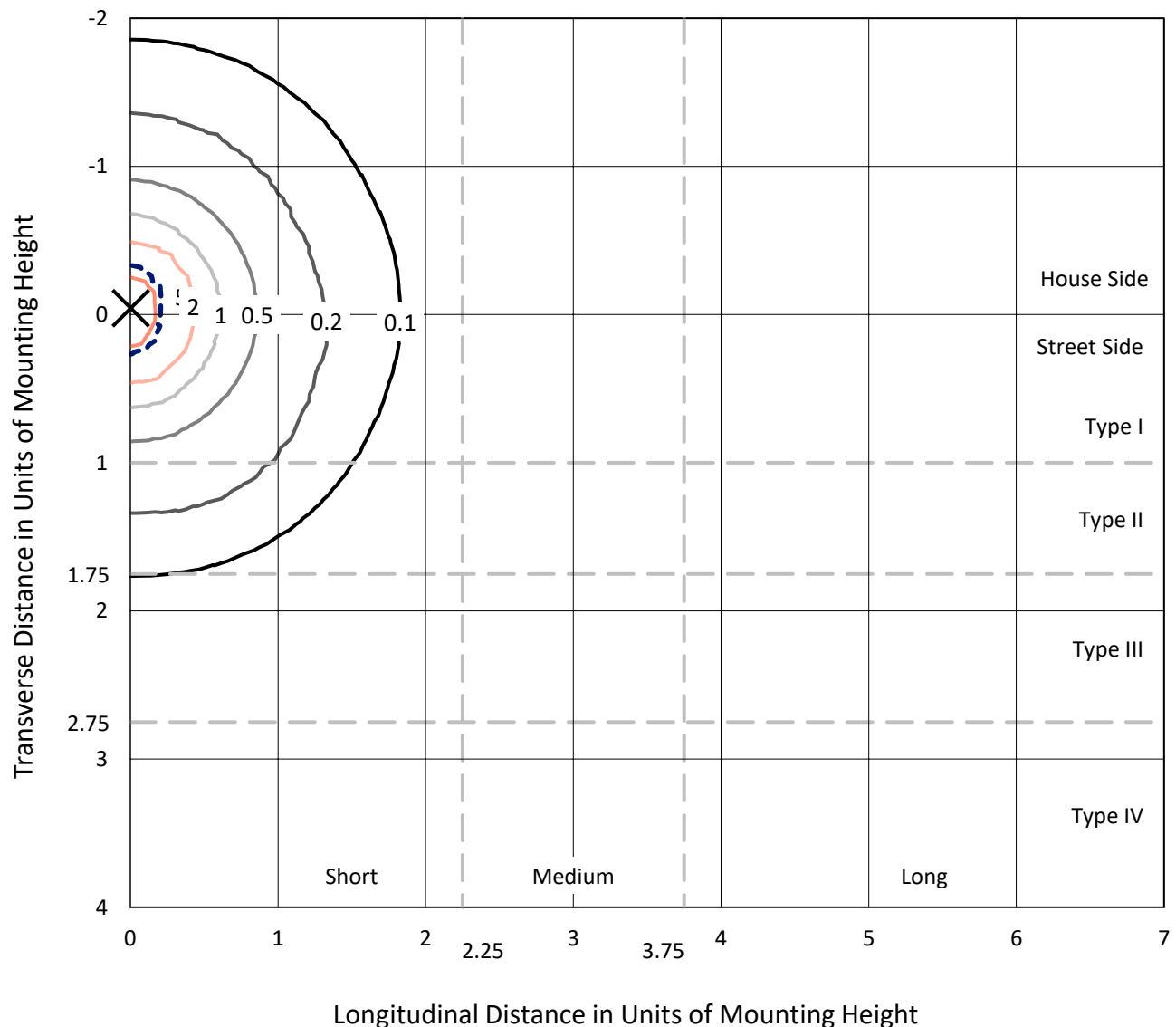
Input Watts (W): 41.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

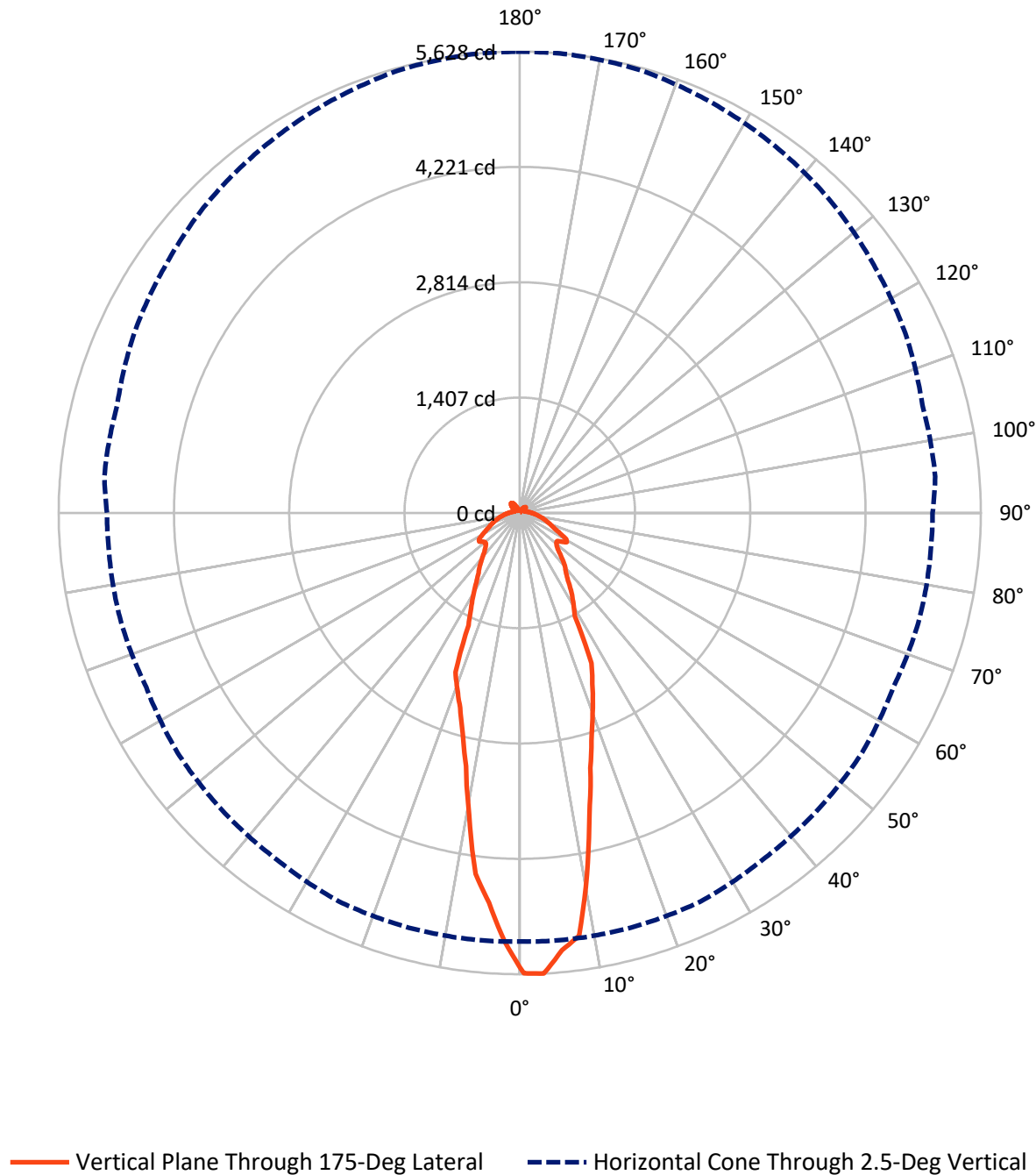
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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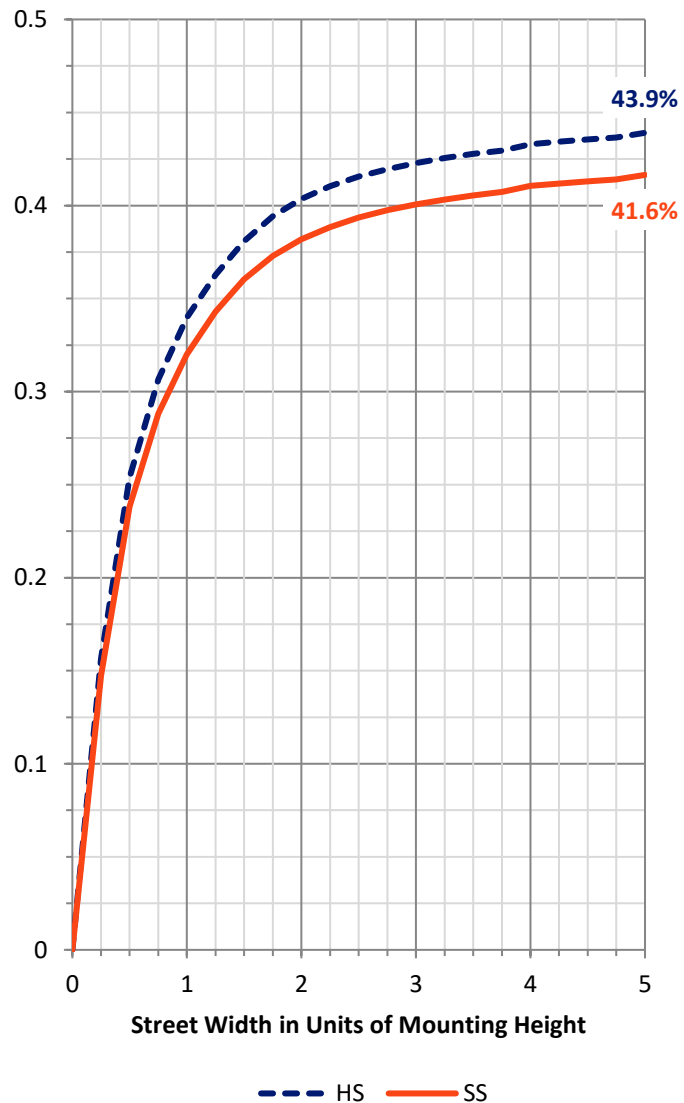
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2287.4	302.2	2589.5
	% Fixture	45.3	6.0	51.2
Street Side	Lumens	2154.3	310.1	2464.5
	% Fixture	42.6	6.1	48.8
Total	Lumens	4441.7	612.3	5054.0
	% Fixture	87.9	12.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.1	8.3
10°-20°	733.9	14.5
20°-30°	727.7	14.4
30°-40°	561.0	11.1
40°-50°	480.9	9.5
50°-60°	537.9	10.6
60°-70°	460.8	9.1
70°-80°	317.1	6.3
80°-90°	204.1	4.0
90°-100°	122.3	2.4
100°-110°	72.8	1.4
110°-120°	67.3	1.3
120°-130°	96.1	1.9
130°-140°	124.2	2.5
140°-150°	92.0	1.8
150°-160°	33.6	0.7
160°-170°	3.9	0.1
170°-180°	0.0	0.0
0°-90°	4441.7	87.9
0°-180°	5054.0	100.0

Coefficient of Utilization



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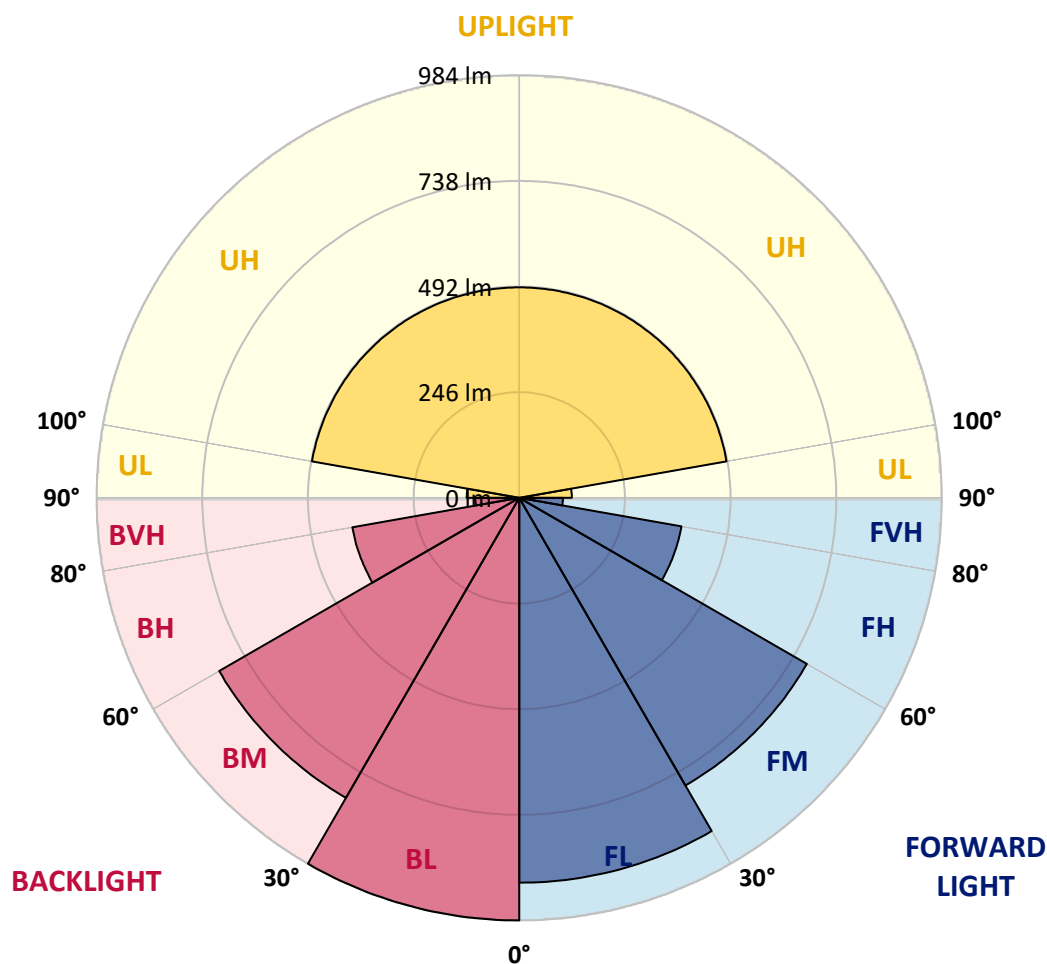
CATALOG NUMBER: CRTK2-C016-D-U-T5R-7030-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	896.0	17.7			
FM	(30°-60°)	773.3	15.3			
FH	(60°-80°)	383.4	7.6			G0/660
FVH	(80°-90°)	101.7	2.0			G2/225
BL	(0°-30°)	983.8	19.5	B2/1000		
BM	(30°-60°)	806.6	16.0	B1/1000		
BH	(60°-80°)	394.6	7.8	B1/500		G0/660
BVH	(80°-90°)	102.4	2.0			G2/225
UL	(90°-100°)	122.3	2.4		U3/500	
UH	(100°-180°)	489.9	9.7		U3/500	

BUG Rating: B2-U3-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5616.5	5616.5	5616.5	5616.5	5616.5	5616.5	5616.5	5616.5	5616.5	5616.5	5616.5
2.5°	5228.6	5236.2	5238.1	5228.6	5165.9	5133.6	5099.4	5030.9	5046.1	5036.6	5038.5
5°	4741.9	4772.3	4724.8	4711.5	4616.4	4546.1	4477.6	4403.5	4386.4	4355.9	4367.3
7.5°	4418.7	4435.8	4357.8	4278.0	4125.9	4017.5	3903.4	3789.3	3703.8	3671.5	3684.8
10°	3679.1	3736.1	3658.1	3576.4	3431.9	3302.6	3182.8	3070.6	2992.7	2968.0	2971.8
12.5°	3127.7	3160.0	3093.5	3038.3	2876.7	2753.1	2642.8	2538.3	2475.5	2448.9	2448.9
15°	2762.6	2775.9	2724.6	2618.1	2496.4	2384.3	2291.1	2215.0	2163.7	2154.2	2158.0
17.5°	2486.9	2486.9	2435.6	2351.9	2258.8	2159.9	2095.3	2038.2	2015.4	2023.0	2024.9
20°	2279.7	2281.6	2236.0	2154.2	2074.3	1985.0	1931.7	1891.8	1878.5	1891.8	1893.7
22.5°	2083.9	2093.4	2043.9	1983.1	1895.6	1825.3	1781.5	1737.8	1730.2	1735.9	1735.9
25°	1507.7	1507.7	1490.6	1443.1	1462.1	1469.7	1521.1	1631.3	1608.5	1629.4	1627.5
27.5°	1300.5	1308.1	1273.9	1232.1	1188.3	1137.0	1127.5	1118.0	1108.5	1152.2	1167.4
30°	1148.4	1152.2	1123.7	1095.2	1059.0	1030.5	1022.9	1022.9	1013.4	1047.6	1045.7
32.5°	1003.9	998.2	990.6	964.0	941.2	916.4	922.1	918.3	918.3	948.8	950.7
35°	889.8	887.9	882.2	863.2	840.4	821.4	827.1	830.9	829.0	848.0	848.0
37.5°	806.2	808.1	804.3	796.7	773.8	758.6	762.4	758.6	764.3	777.6	777.6
40°	724.4	724.4	726.3	724.4	709.2	703.5	714.9	709.2	722.5	732.0	728.2
42.5°	646.5	648.4	652.2	648.4	638.8	633.1	638.8	640.7	659.8	673.1	671.2
45°	597.0	597.0	598.9	597.0	589.4	583.7	583.7	578.0	591.3	598.9	597.0
47.5°	564.7	564.7	568.5	566.6	562.8	557.1	553.3	545.7	551.4	557.1	551.4
50°	553.3	553.3	560.9	560.9	559.0	553.3	547.6	538.1	540.0	543.8	536.2
52.5°	570.4	570.4	583.7	589.4	589.4	579.9	572.3	559.0	559.0	562.8	551.4
55°	606.5	606.5	627.4	638.8	640.7	640.7	631.2	617.9	619.8	627.4	616.0
57.5°	593.2	595.1	612.2	627.4	636.9	642.6	642.6	635.0	640.7	659.8	654.1
60°	530.5	534.3	545.7	559.0	576.1	581.8	581.8	579.9	589.4	612.2	612.2
62.5°	471.5	473.4	479.1	490.5	500.0	503.9	503.9	496.2	507.7	519.1	515.3
65°	425.9	424.0	435.4	444.9	450.6	456.3	450.6	443.0	448.7	456.3	454.4
67.5°	387.9	387.9	397.4	405.0	408.8	414.5	410.7	406.9	414.5	418.3	414.5
70°	351.7	353.6	361.3	367.0	370.8	376.5	370.8	368.9	376.5	380.3	378.4
72.5°	315.6	317.5	323.2	330.8	334.6	336.5	334.6	332.7	338.4	342.2	342.2
75°	283.3	285.2	289.0	296.6	296.6	300.4	298.5	296.6	302.3	306.1	306.1
77.5°	252.9	256.7	258.6	264.3	266.2	268.1	266.2	266.2	270.0	273.8	275.7
80°	226.3	228.2	230.1	235.8	235.8	237.7	235.8	235.8	239.6	245.3	245.3
82.5°	201.5	203.4	205.3	209.1	207.2	209.1	209.1	209.1	212.9	218.7	218.7
85°	176.8	180.6	180.6	184.4	184.4	184.4	184.4	186.3	188.2	193.9	193.9
87.5°	155.9	157.8	159.7	161.6	161.6	163.5	163.5	165.4	167.3	171.1	173.0
90°	135.0	136.9	138.8	138.8	138.8	140.7	140.7	142.6	144.5	148.3	150.2
92.5°	119.8	121.7	121.7	123.6	123.6	123.6	125.5	127.4	129.3	133.1	133.1
95°	106.5	108.4	108.4	108.4	108.4	110.3	110.3	112.2	114.1	117.9	117.9
97.5°	95.1	95.1	95.1	95.1	95.1	97.0	97.0	98.9	100.8	102.7	102.7
100°	83.7	83.7	83.7	83.7	83.7	83.7	83.7	85.6	85.6	89.4	89.4
102.5°	74.2	74.2	72.3	72.3	72.3	70.3	70.3	72.3	72.3	74.2	74.2
105°	66.5	66.5	66.5	66.5	64.6	64.6	64.6	64.6	64.6	66.5	66.5
107.5°	64.6	64.6	62.7	62.7	62.7	60.8	60.8	60.8	60.8	62.7	62.7
110°	62.7	62.7	62.7	62.7	60.8	60.8	58.9	58.9	58.9	60.8	60.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	64.6	64.6	64.6	62.7	62.7	60.8	60.8	60.8	60.8	60.8	62.7
115°	68.4	66.5	66.5	66.5	66.5	64.6	62.7	62.7	64.6	64.6	64.6
117.5°	74.2	72.3	72.3	74.2	72.3	70.3	68.4	68.4	70.3	70.3	72.3
120°	81.8	79.9	81.8	81.8	81.8	79.9	78.0	76.1	78.0	79.9	79.9
122.5°	91.3	89.4	91.3	93.2	93.2	91.3	87.5	87.5	89.4	91.3	93.2
125°	102.7	102.7	104.6	106.5	108.4	104.6	102.7	100.8	104.6	106.5	106.5
127.5°	116.0	114.1	117.9	123.6	125.5	121.7	117.9	116.0	119.8	123.6	123.6
130°	129.3	127.4	133.1	138.8	142.6	138.8	135.0	133.1	136.9	140.7	140.7
132.5°	140.7	138.8	146.4	154.0	157.8	155.9	152.1	148.3	154.0	157.8	155.9
135°	150.2	150.2	159.7	167.3	171.1	169.2	165.4	161.6	169.2	173.0	169.2
137.5°	155.9	155.9	167.3	174.9	178.7	178.7	176.8	173.0	180.6	182.5	176.8
140°	155.9	157.8	167.3	174.9	176.8	178.7	178.7	176.8	184.4	184.4	178.7
142.5°	150.2	152.1	161.6	169.2	171.1	173.0	174.9	173.0	178.7	178.7	174.9
145°	140.7	142.6	152.1	159.7	159.7	161.6	165.4	163.5	167.3	169.2	165.4
147.5°	127.4	129.3	136.9	140.7	142.6	146.4	150.2	150.2	152.1	154.0	152.1
150°	110.3	110.3	116.0	119.8	121.7	125.5	129.3	131.2	131.2	133.1	131.2
152.5°	87.5	87.5	91.3	95.1	97.0	102.7	104.6	106.5	108.4	110.3	108.4
155°	66.5	66.5	68.4	70.3	72.3	78.0	79.9	81.8	83.7	85.6	83.7
157.5°	47.5	47.5	49.4	51.3	53.2	57.0	58.9	60.8	60.8	62.7	62.7
160°	30.4	32.3	32.3	34.2	34.2	38.0	39.9	39.9	41.8	43.7	43.7
162.5°	15.2	17.1	17.1	19.0	20.9	22.8	24.7	24.7	26.6	26.6	26.6
165°	3.8	5.7	5.7	7.6	7.6	9.5	11.4	11.4	13.3	13.3	13.3
167.5°	0.0	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8	3.8	3.8
170°	0.0	0.0	0.0	0.0	1.9	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	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°	178°	180°
0°	5616.5	5616.5	5616.5	5616.5	5616.5	5616.5	5616.5	5616.5	5616.5	5616.5	5616.5
2.5°	5089.8	5086.0	5190.6	5274.3	5373.1	5451.1	5527.1	5599.4	5627.9	5626.0	5627.9
5°	4418.7	4485.2	4622.1	4757.1	4916.8	5067.0	5207.7	5300.9	5359.8	5359.8	5365.5
7.5°	3745.6	3852.1	4021.3	4236.1	4475.7	4671.6	4909.2	5076.5	5209.6	5205.8	5230.5
10°	3025.0	3108.7	3277.9	3507.9	3772.2	3998.5	4205.7	4361.6	4490.9	4483.3	4515.6
12.5°	2485.0	2544.0	2690.4	2899.5	3141.0	3359.6	3563.1	3684.8	3776.0	3774.1	3791.2
15°	2167.5	2228.4	2323.4	2467.9	2667.6	2861.5	3064.9	3175.2	3226.5	3220.8	3249.4
17.5°	2038.2	2062.9	2121.9	2218.8	2363.3	2521.2	2682.8	2777.8	2836.8	2829.2	2850.1
20°	1899.4	1922.2	1962.2	2034.4	2137.1	2256.9	2393.8	2498.3	2542.1	2540.2	2553.5
22.5°	1739.7	1751.1	1794.8	1851.9	1926.0	2023.0	2127.6	2222.6	2266.4	2264.5	2277.8
25°	1629.4	1648.4	1675.1	1709.3	1760.6	1836.7	1924.1	1990.7	2030.6	2026.8	2043.9
27.5°	1190.2	1209.2	1222.6	1243.5	1245.4	1308.1	1338.5	1393.7	1429.8	1427.9	1439.3
30°	1045.7	1049.5	1060.9	1089.5	1106.6	1156.0	1216.8	1258.7	1289.1	1300.5	1308.1
32.5°	954.5	965.9	979.2	992.5	1013.4	1043.8	1091.4	1129.4	1161.7	1167.4	1180.7
35°	849.9	857.5	867.0	880.3	893.6	918.3	954.5	984.9	1009.6	1019.1	1026.7
37.5°	775.7	777.6	787.1	802.4	813.8	834.7	867.0	889.8	914.5	916.4	924.0
40°	726.3	728.2	737.7	751.0	764.3	777.6	806.2	827.1	844.2	846.1	851.8
42.5°	669.3	675.0	678.8	684.5	694.0	705.4	730.1	741.5	752.9	754.8	762.4
45°	591.3	593.2	597.0	602.7	614.1	625.5	642.6	656.0	663.6	663.6	661.7
47.5°	547.6	549.5	549.5	557.1	566.6	578.0	593.2	604.6	608.4	608.4	608.4
50°	532.4	532.4	528.6	534.3	543.8	551.4	566.6	576.1	578.0	579.9	581.8
52.5°	543.8	540.0	528.6	534.3	543.8	551.4	566.6	570.4	570.4	574.2	576.1
55°	606.5	600.8	578.0	581.8	593.2	602.7	614.1	616.0	619.8	625.5	623.6
57.5°	646.5	650.3	623.6	629.3	650.3	657.9	671.2	669.3	676.9	684.5	686.4
60°	608.4	619.8	598.9	606.5	631.2	635.0	648.4	640.7	652.2	652.2	652.2
62.5°	517.2	521.0	509.6	521.0	543.8	543.8	553.3	547.6	551.4	547.6	549.5
65°	452.5	450.6	437.3	452.5	460.1	463.9	471.5	473.4	473.4	469.6	469.6
67.5°	412.6	408.8	397.4	401.2	408.8	410.7	422.1	424.0	422.1	422.1	424.0
70°	376.5	370.8	359.4	361.3	367.0	368.9	378.4	382.2	380.3	378.4	380.3
72.5°	340.3	334.6	323.2	323.2	328.9	332.7	340.3	344.1	340.3	340.3	342.2
75°	306.1	300.4	289.0	289.0	292.8	294.7	304.2	306.1	304.2	302.3	304.2
77.5°	275.7	271.9	260.5	260.5	262.4	264.3	270.0	271.9	270.0	268.1	270.0
80°	247.2	241.5	233.9	232.0	233.9	233.9	239.6	241.5	237.7	237.7	239.6
82.5°	220.6	214.8	207.2	207.2	205.3	207.2	211.0	212.9	211.0	209.1	211.0
85°	195.8	192.0	184.4	182.5	182.5	182.5	186.3	186.3	184.4	184.4	184.4
87.5°	173.0	169.2	161.6	161.6	159.7	161.6	163.5	163.5	161.6	161.6	161.6
90°	150.2	146.4	140.7	140.7	138.8	140.7	142.6	142.6	140.7	140.7	140.7
92.5°	133.1	131.2	125.5	125.5	123.6	125.5	125.5	125.5	123.6	123.6	123.6
95°	117.9	116.0	112.2	110.3	110.3	110.3	110.3	110.3	108.4	108.4	108.4
97.5°	102.7	100.8	97.0	97.0	95.1	97.0	97.0	97.0	95.1	95.1	95.1
100°	89.4	87.5	85.6	85.6	83.7	83.7	83.7	83.7	83.7	83.7	83.7
102.5°	74.2	74.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
105°	66.5	66.5	66.5	66.5	68.4	68.4	68.4	66.5	66.5	66.5	66.5
107.5°	62.7	62.7	62.7	64.6	64.6	64.6	66.5	62.7	60.8	60.8	60.8
110°	60.8	60.8	62.7	62.7	64.6	64.6	66.5	58.9	57.0	57.0	57.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	62.7	62.7	62.7	64.6	66.5	66.5	68.4	58.9	57.0	57.0	57.0
115°	66.5	66.5	66.5	68.4	70.3	72.3	72.3	62.7	58.9	58.9	60.8
117.5°	72.3	72.3	72.3	74.2	78.0	78.0	78.0	66.5	64.6	64.6	64.6
120°	79.9	81.8	81.8	83.7	87.5	89.4	85.6	76.1	64.6	70.3	70.3
122.5°	91.3	93.2	95.1	97.0	102.7	102.7	97.0	87.5	70.3	78.0	79.9
125°	106.5	108.4	110.3	114.1	119.8	119.8	112.2	98.9	79.9	87.5	89.4
127.5°	121.7	125.5	127.4	133.1	140.7	140.7	131.2	114.1	89.4	95.1	97.0
130°	138.8	142.6	146.4	154.0	163.5	159.7	152.1	129.3	97.0	100.8	100.8
132.5°	154.0	159.7	161.6	173.0	182.5	178.7	169.2	138.8	100.8	100.8	98.9
135°	165.4	169.2	171.1	182.5	192.0	186.3	174.9	142.6	98.9	95.1	95.1
137.5°	173.0	176.8	178.7	186.3	193.9	184.4	169.2	135.0	95.1	93.2	91.3
140°	176.8	176.8	176.8	182.5	186.3	174.9	155.9	121.7	85.6	89.4	89.4
142.5°	173.0	171.1	169.2	173.0	174.9	161.6	144.5	108.4	78.0	81.8	81.8
145°	163.5	159.7	157.8	159.7	159.7	144.5	125.5	93.2	68.4	70.3	70.3
147.5°	150.2	144.5	140.7	140.7	138.8	123.6	106.5	78.0	58.9	57.0	57.0
150°	129.3	123.6	119.8	119.8	114.1	100.8	85.6	60.8	47.5	47.5	47.5
152.5°	106.5	100.8	97.0	97.0	91.3	78.0	64.6	45.6	36.1	36.1	36.1
155°	83.7	78.0	74.2	72.3	68.4	58.9	47.5	34.2	26.6	26.6	26.6
157.5°	62.7	58.9	55.1	53.2	49.4	43.7	34.2	24.7	17.1	19.0	19.0
160°	43.7	39.9	38.0	36.1	34.2	28.5	22.8	15.2	9.5	9.5	9.5
162.5°	26.6	24.7	24.7	22.8	20.9	19.0	13.3	7.6	3.8	3.8	3.8
165°	13.3	13.3	11.4	11.4	9.5	7.6	5.7	1.9	0.0	0.0	0.0
167.5°	3.8	3.8	3.8	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0
170°	1.9	1.9	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)