

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: P314577

Luminaire Tested: **MPW-A3-D-U-SYM-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPW-A3-D-U-SYM-7027
Description: WOODBRIDGE POST TOP LUMINAIRE
(1) 70 CRI, 2700K LIGHT ENGINE. SYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3033 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type I - Short - Non-Cutoff
BUG Rating: B1 - U4 - G3

Input Watts (W): 28.7
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: 28.75 FT

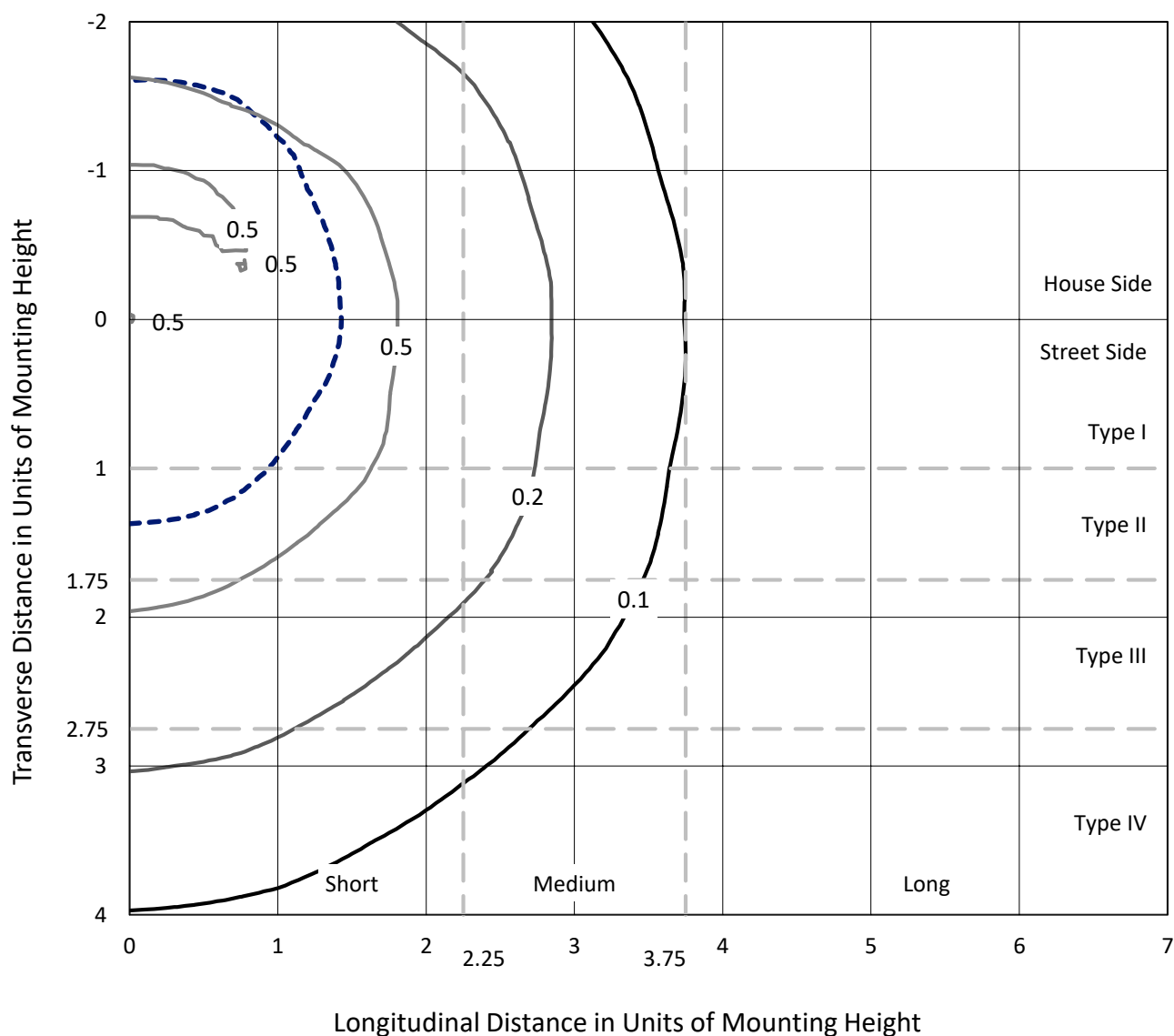


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

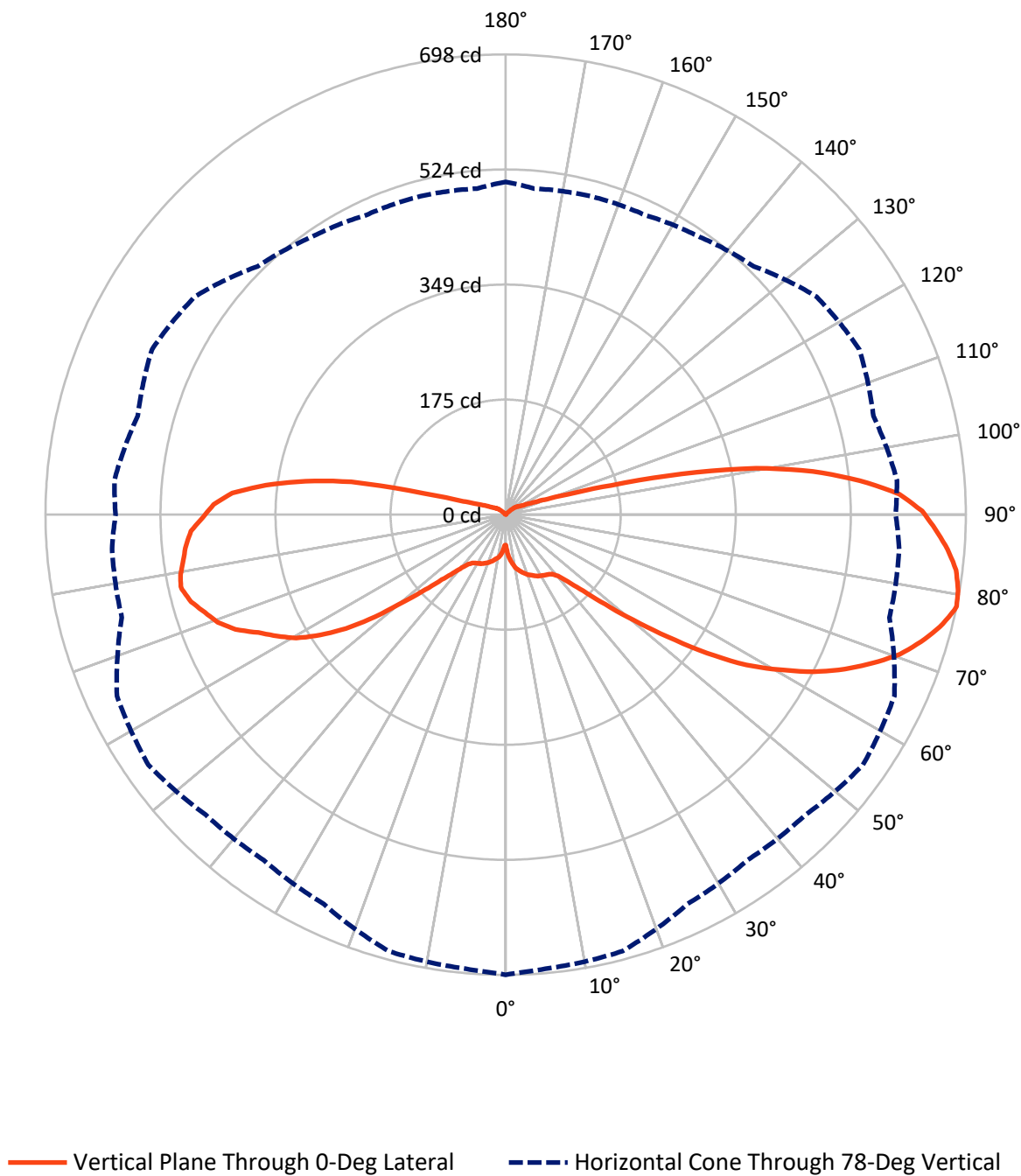


Based on 10 foot mounting height. Maximum calculated value = 0.8 fc
 Type I - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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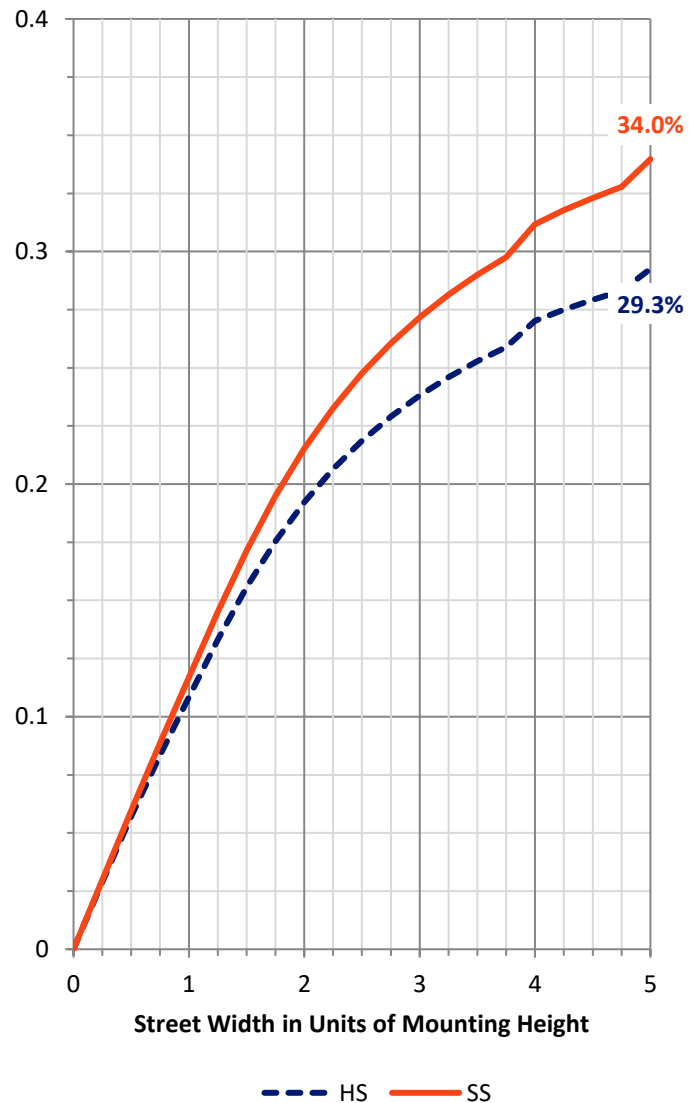
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1046.9	348.7	1395.5
	% Fixture	34.5	11.5	46.0
Street Side	Lumens	1235.6	401.8	1637.5
	% Fixture	40.7	13.2	54.0
Total	Lumens	2282.5	750.5	3033.0
	% Fixture	75.3	24.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.2
10°-20°	23.0	0.8
20°-30°	43.0	1.4
30°-40°	64.5	2.1
40°-50°	126.4	4.2
50°-60°	302.5	10.0
60°-70°	481.5	15.9
70°-80°	610.4	20.1
80°-90°	624.9	20.6
90°-100°	508.9	16.8
100°-110°	183.8	6.1
110°-120°	37.5	1.2
120°-130°	16.9	0.6
130°-140°	3.4	0.1
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2282.5	75.3
0°-180°	3033.0	100.0

Coefficient of Utilization



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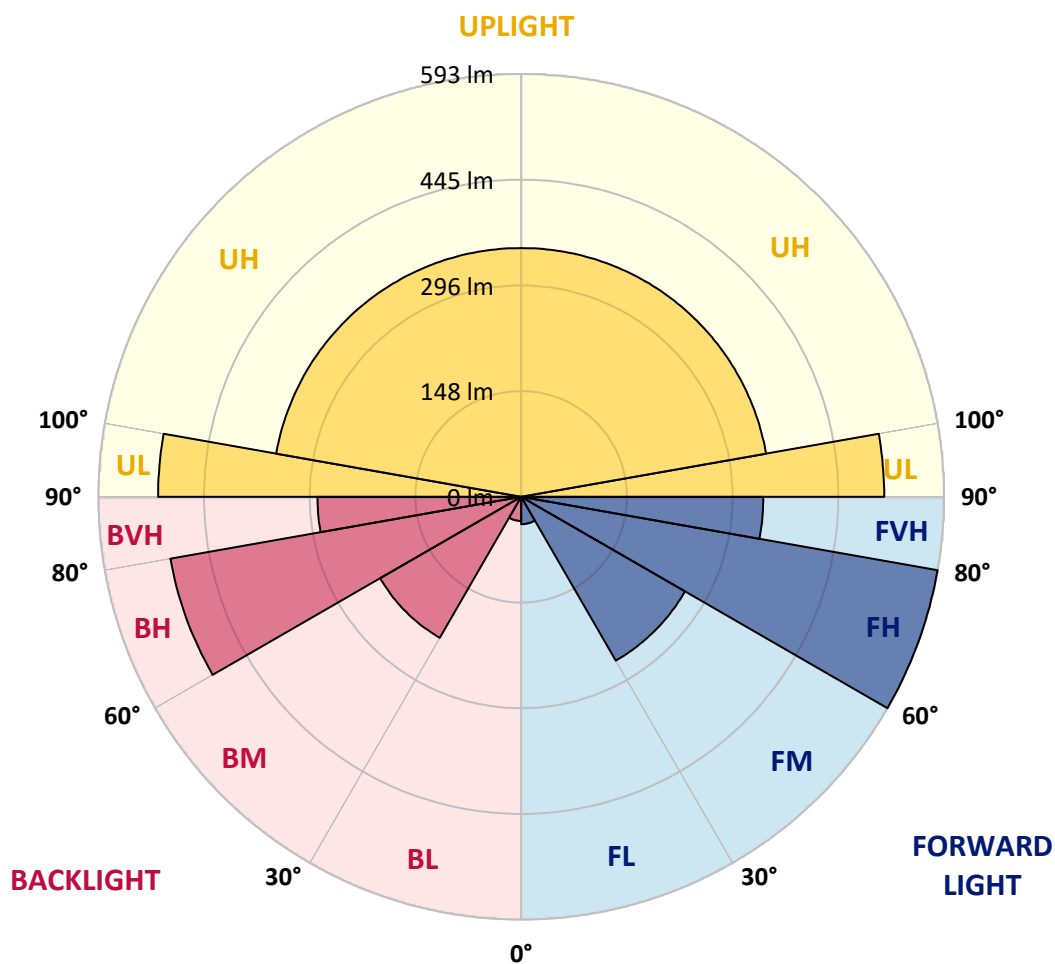
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	38.4	1.3			
FM	(30°-60°)	265.2	8.7			
FH	(60°-80°)	592.7	19.5			G0/660
FVH	(80°-90°)	339.3	11.2			G3/500
BL	(0°-30°)	33.8	1.1	B0/110		
BM	(30°-60°)	228.2	7.5	B1/1000		
BH	(60°-80°)	499.3	16.5	B1/500		G1/500
BVH	(80°-90°)	285.6	9.4			G3/500
UL	(90°-100°)	508.9	16.8		U4/1000	
UH	(100°-180°)	348.7	11.5		U3/500	

BUG Rating: B1-U4-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
2.5°	58.9	58.5	58.1	57.2	57.6	57.2	56.3	55.0	53.7	52.3	51.5
5°	68.2	67.7	67.7	67.7	67.7	67.7	67.3	66.0	64.2	62.5	60.3
7.5°	75.2	74.8	74.8	75.2	75.2	74.8	73.9	73.0	71.7	70.8	69.1
10°	81.8	81.4	81.4	81.4	80.9	80.0	79.2	77.8	76.1	75.2	73.9
12.5°	86.2	85.8	85.8	85.3	84.9	84.0	82.2	80.5	79.6	78.3	77.0
15°	90.2	89.7	89.7	88.8	88.4	87.5	85.8	84.4	83.1	82.2	81.4
17.5°	93.7	93.7	93.2	92.4	91.9	91.0	89.7	88.0	86.6	85.8	84.4
20°	97.2	96.8	96.8	95.9	95.0	94.1	92.8	91.5	90.6	89.3	88.0
22.5°	99.8	99.8	99.4	99.0	98.1	97.6	95.9	95.0	93.7	92.8	91.5
25°	102.9	102.9	102.9	102.0	101.2	100.7	99.0	98.1	97.2	95.9	94.1
27.5°	105.6	105.1	105.6	104.7	103.4	102.9	101.2	99.8	99.0	98.1	96.3
30°	107.3	107.3	106.9	106.4	105.1	104.2	102.9	101.6	100.7	99.4	98.1
32.5°	109.5	108.6	109.5	107.8	106.9	105.6	104.2	102.5	101.6	100.3	99.0
35°	111.3	110.8	110.8	110.4	108.6	107.8	106.0	104.7	103.4	102.0	100.7
37.5°	114.4	114.4	114.4	113.5	112.6	113.0	111.7	110.0	108.6	106.9	104.7
40°	122.3	122.3	122.3	122.3	121.8	123.1	122.7	122.3	121.8	119.2	115.7
42.5°	138.5	139.0	138.5	138.5	139.0	141.6	142.1	142.9	141.6	137.7	132.8
45°	164.9	165.8	164.9	166.3	167.1	170.6	170.2	171.1	169.3	165.8	157.9
47.5°	203.2	204.5	205.0	202.3	202.8	206.3	208.5	209.4	207.6	199.7	192.6
50°	251.1	252.5	252.5	250.3	248.1	252.5	255.5	257.3	258.2	245.0	237.1
52.5°	307.4	309.2	308.8	306.1	301.7	310.9	313.6	321.9	319.7	300.0	291.2
55°	371.2	373.0	372.5	367.2	360.2	364.2	372.1	381.8	379.1	354.9	348.8
57.5°	430.6	431.5	431.5	424.9	416.5	413.9	419.1	430.6	426.2	398.0	392.8
60°	478.1	479.0	479.4	469.3	459.2	453.4	457.8	470.6	466.2	433.7	428.4
62.5°	525.1	521.6	518.1	509.7	495.7	489.1	490.0	506.7	497.9	462.2	458.3
65°	565.6	564.3	555.9	547.1	531.7	524.3	524.3	541.9	533.1	495.2	490.0
67.5°	601.2	601.2	591.6	583.2	562.5	553.7	552.0	573.1	562.1	523.4	516.8
70°	634.7	633.8	622.8	617.1	591.6	578.8	581.0	602.5	592.9	552.0	547.1
72.5°	659.3	659.3	651.4	646.1	614.9	603.0	603.9	626.7	615.7	572.6	566.0
75°	680.8	679.1	674.7	669.8	637.3	623.7	625.9	648.3	636.9	593.3	590.7
77.5°	696.2	694.9	691.0	685.7	650.0	637.7	641.3	661.5	651.4	601.7	598.1
78°	698.4	696.2	691.8	685.7	652.2	639.9	643.9	661.9	650.9	603.0	599.5
80°	696.2	694.5	689.6	683.0	653.6	639.1	641.3	657.1	645.6	600.8	596.0
82.5°	688.8	687.4	683.0	675.1	645.6	633.3	635.5	650.5	640.4	593.8	596.0
85°	672.9	669.8	666.3	658.4	632.9	618.8	620.6	635.1	623.7	577.9	576.6
87.5°	653.1	650.9	648.3	640.4	616.6	604.3	604.7	619.3	608.3	565.6	565.6
90°	632.0	629.4	627.2	619.7	596.4	584.5	585.0	601.2	592.4	553.3	555.5
92.5°	598.1	596.0	593.8	585.4	564.3	552.8	554.6	570.4	561.6	523.4	526.0
95°	539.7	537.9	538.3	532.2	513.3	502.7	503.1	519.0	510.6	477.2	484.2
97.5°	471.0	470.2	467.5	465.3	448.6	442.0	440.3	457.4	453.4	424.4	431.9
100°	386.2	384.4	381.3	380.4	369.9	367.2	368.6	384.8	382.6	357.6	365.0
102.5°	273.6	273.1	275.8	270.9	266.5	267.4	272.7	286.3	284.1	262.6	267.4
105°	166.3	166.7	164.5	163.2	159.7	159.2	160.1	164.1	159.2	144.7	145.6
107.5°	99.0	99.4	99.8	96.8	94.1	93.2	92.8	94.1	91.5	85.8	85.8



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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	67.3	67.3	67.7	66.0	63.8	63.8	63.3	64.7	63.8	60.7	60.7
112.5°	49.3	49.7	49.3	48.4	47.1	47.5	47.5	48.4	48.4	46.6	46.6
115°	38.3	38.3	38.3	37.4	36.5	36.5	36.9	37.8	38.3	37.4	37.4
117.5°	30.3	30.3	30.3	29.9	29.0	29.0	29.5	29.9	30.8	30.3	30.3
120°	25.5	25.5	25.5	25.1	24.6	24.6	25.1	25.5	25.9	25.5	25.5
122.5°	22.9	22.9	22.9	22.4	22.0	22.0	22.0	22.4	22.9	22.9	22.9
125°	20.7	20.7	20.7	20.7	19.8	19.4	19.8	20.2	20.7	21.1	21.1
127.5°	17.2	17.2	17.6	17.2	16.7	16.7	17.2	17.2	18.0	18.5	18.5
130°	12.8	12.8	13.2	13.2	12.8	12.3	12.8	13.2	14.1	14.5	14.1
132.5°	7.9	8.4	8.4	8.4	7.9	7.9	8.4	8.8	9.7	10.1	9.7
135°	0.9	0.9	1.3	0.9	1.3	1.3	1.3	1.8	2.6	3.1	3.1
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.4	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.4	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.4	0.4	0.4	0.0	0.4	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°	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
2.5°	51.0	51.5	50.6	50.1	49.7	49.3	48.8	47.9	47.5	47.5	47.1
5°	59.8	59.4	58.5	57.2	56.7	56.3	55.9	55.4	55.4	55.4	55.4
7.5°	68.2	67.3	65.1	63.8	63.3	63.8	62.9	62.5	62.0	61.6	61.6
10°	73.0	72.1	70.8	69.5	68.6	68.6	68.2	67.3	66.4	66.0	66.0
12.5°	76.1	75.2	74.3	73.0	72.1	71.7	71.3	69.9	68.6	68.6	68.2
15°	80.5	79.6	78.3	77.0	76.1	75.2	74.8	73.0	71.7	71.3	71.3
17.5°	84.0	83.1	82.2	80.9	79.6	78.3	77.4	76.1	74.8	74.3	74.3
20°	87.5	86.6	85.3	84.4	82.7	81.4	80.5	79.2	77.8	77.4	77.0
22.5°	91.0	90.2	88.8	88.0	86.2	84.4	83.1	81.8	80.0	79.6	79.2
25°	93.7	92.8	91.9	90.6	88.8	87.1	85.3	83.6	82.7	81.8	81.4
27.5°	95.9	95.4	94.6	93.2	91.0	89.3	87.5	85.8	84.4	83.6	83.6
30°	97.6	97.2	96.3	95.0	93.2	91.5	89.7	88.0	86.2	85.3	84.9
32.5°	99.0	98.1	97.6	96.3	95.0	93.2	91.5	89.7	88.0	87.1	86.6
35°	100.3	99.8	99.0	98.1	96.3	95.0	93.2	91.9	90.2	89.7	89.3
37.5°	104.2	103.8	102.9	101.2	99.8	98.5	97.2	95.9	95.0	94.6	94.1
40°	115.7	113.9	112.2	110.4	107.8	106.0	104.7	104.2	103.8	103.8	104.2
42.5°	131.1	130.2	128.9	125.8	122.3	119.6	118.3	118.8	118.3	118.3	119.2
45°	155.7	153.9	152.2	149.5	143.4	139.0	137.7	136.8	137.7	137.2	138.1
47.5°	187.8	189.1	183.0	179.9	173.3	166.7	165.8	163.2	164.9	165.8	167.1
50°	232.2	233.5	227.8	221.7	214.2	203.2	201.4	198.4	199.7	203.6	203.2
52.5°	288.5	289.0	283.2	277.1	267.8	252.5	250.3	246.7	245.4	251.1	251.6
55°	347.0	349.2	340.4	336.0	326.8	305.2	298.2	292.5	292.9	299.1	297.8
57.5°	392.8	393.6	385.7	383.5	373.4	347.0	339.1	327.2	331.2	335.6	335.6
60°	427.5	428.4	418.7	420.0	412.1	378.2	371.2	358.0	361.1	364.2	369.0
62.5°	457.4	460.5	447.3	449.9	442.9	405.5	395.4	385.3	388.8	389.2	392.3
65°	488.6	489.1	475.4	479.0	469.7	433.2	417.4	407.7	412.5	411.7	415.6
67.5°	515.5	516.3	501.8	509.7	498.8	460.0	444.7	433.7	437.6	434.5	445.5
70°	543.2	545.8	525.1	532.6	523.4	482.0	464.9	454.3	455.6	452.1	466.2
72.5°	560.3	566.0	549.3	558.6	545.4	502.3	486.4	477.2	474.1	470.2	479.8
75°	580.1	585.8	563.4	576.6	565.2	521.6	504.9	496.6	490.0	487.8	495.2
77.5°	591.1	597.3	581.0	590.7	575.7	531.3	512.4	499.6	497.9	495.7	504.0
78°	592.0	596.0	577.9	592.4	576.2	532.6	514.1	501.4	500.1	496.6	504.9
80°	588.9	592.4	575.7	588.9	573.5	530.0	512.4	495.7	496.6	491.7	501.8
82.5°	587.2	591.1	574.4	583.2	572.2	526.5	511.9	492.2	492.2	484.2	493.9
85°	568.2	573.1	559.4	570.0	558.6	515.0	502.7	481.6	481.6	475.4	487.3
87.5°	558.1	563.0	546.3	560.8	546.7	501.8	492.2	474.6	473.2	466.6	478.1
90°	545.8	551.5	534.4	541.4	530.4	487.8	477.2	457.4	455.6	448.6	459.2
92.5°	516.3	521.6	505.3	515.9	505.8	467.5	457.0	441.1	438.1	433.2	443.3
95°	476.3	482.5	469.7	480.7	470.2	435.9	427.9	416.1	413.0	409.9	416.1
97.5°	424.4	427.1	417.8	427.9	418.7	388.8	382.2	370.3	365.0	364.2	366.4
100°	358.4	360.2	349.7	357.6	351.0	324.1	320.6	314.9	307.9	307.0	307.9
102.5°	266.1	258.6	250.3	247.2	246.3	226.1	228.3	231.3	228.3	231.8	239.3
105°	144.3	139.9	136.8	134.1	135.9	124.5	126.7	127.1	124.5	126.2	128.9
107.5°	84.9	83.6	82.2	80.9	78.3	74.3	73.4	70.4	70.4	70.4	71.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	60.3	59.8	58.5	58.1	55.9	53.2	52.8	51.5	50.6	50.6	51.5
112.5°	46.2	45.7	44.9	44.4	43.5	40.5	40.0	39.6	39.6	39.6	40.0
115°	36.9	36.5	36.1	35.2	33.9	31.7	32.1	31.2	31.2	31.7	31.7
117.5°	29.9	29.5	29.5	28.6	27.3	25.9	25.9	25.5	25.5	25.5	25.9
120°	25.5	25.1	24.6	24.2	22.9	21.6	21.6	21.1	21.6	21.6	21.6
122.5°	22.9	22.4	22.0	21.6	20.2	18.9	18.9	18.5	18.9	18.9	18.9
125°	20.7	20.2	19.8	18.9	17.6	16.7	16.7	16.7	16.7	16.7	16.7
127.5°	18.0	17.6	16.7	15.8	15.0	14.1	14.1	14.1	14.5	14.5	14.5
130°	14.1	13.2	12.8	11.9	11.0	10.1	10.6	11.0	11.4	11.4	11.4
132.5°	9.7	9.2	8.4	7.5	6.6	6.6	6.6	7.5	7.9	7.9	7.9
135°	2.6	2.6	2.6	2.2	2.2	2.2	2.6	3.5	3.5	4.0	4.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.4	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	0.4	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)