

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: P314614

Luminaire Tested: **MPB-A4-D-U-SYM-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPB-A4-D-U-SYM-7027
Description: BRECKENRIDGE 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: 3738 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U4 - G3

Input Watts (W): 39.1
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

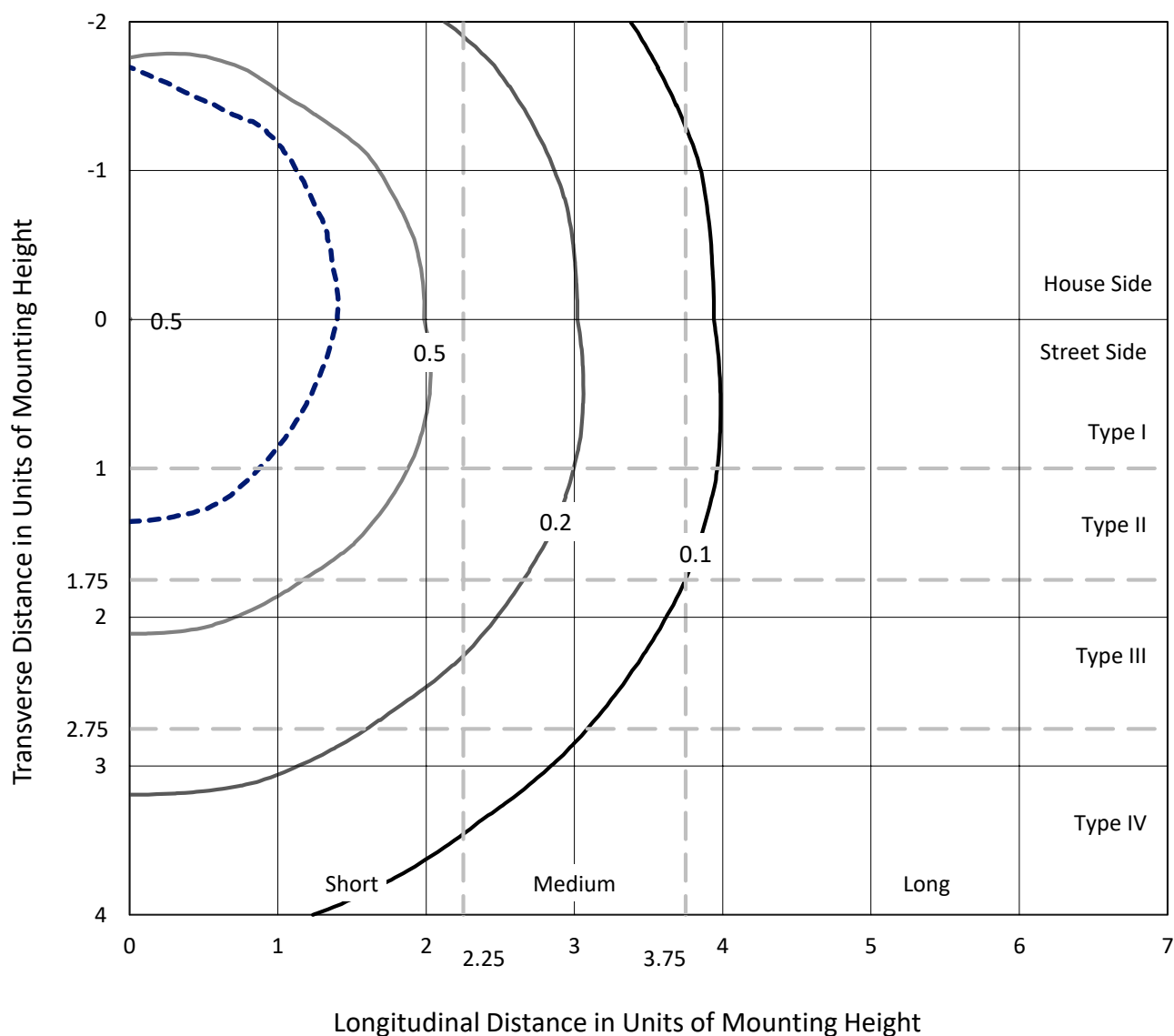


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

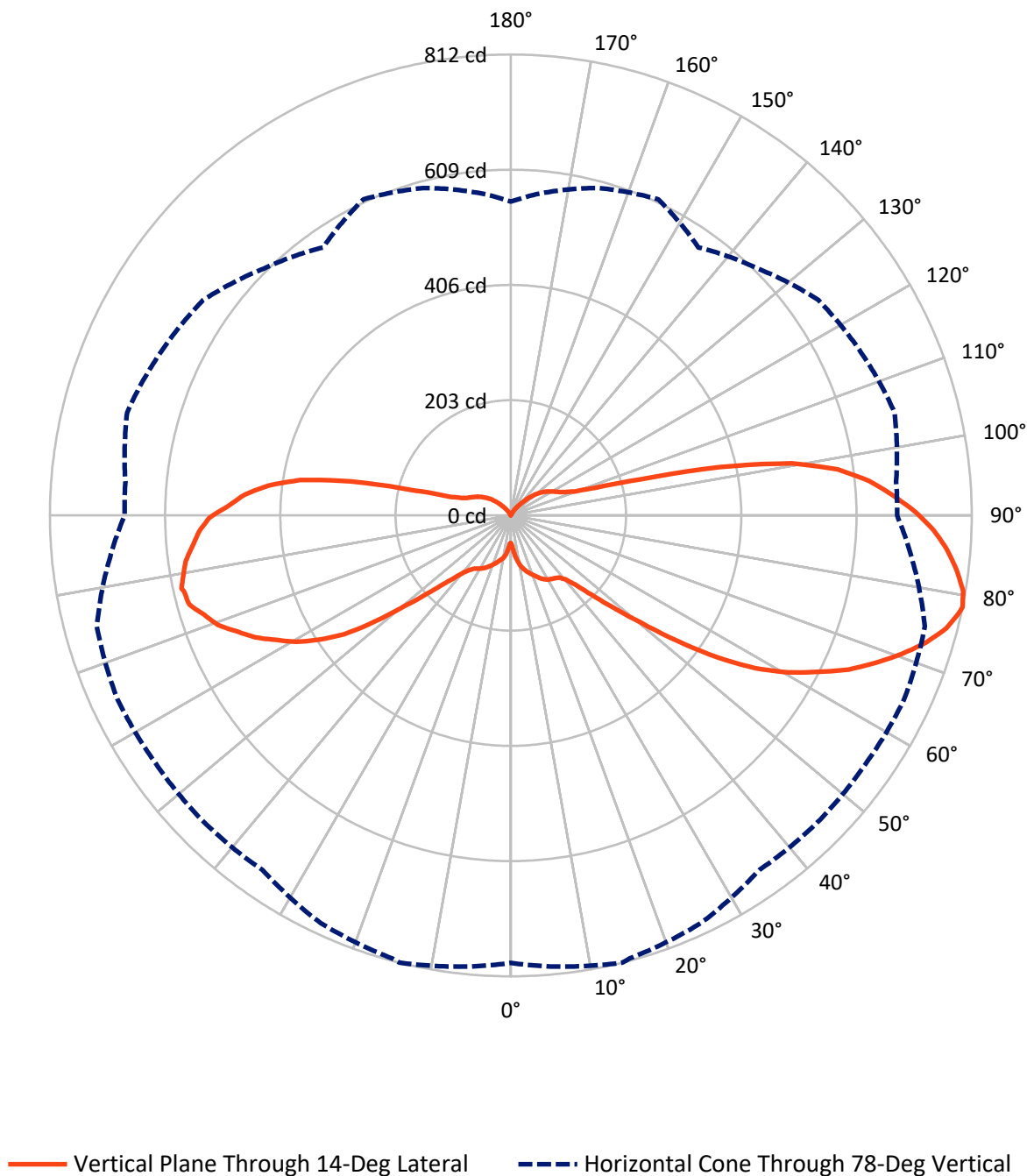


Based on 10 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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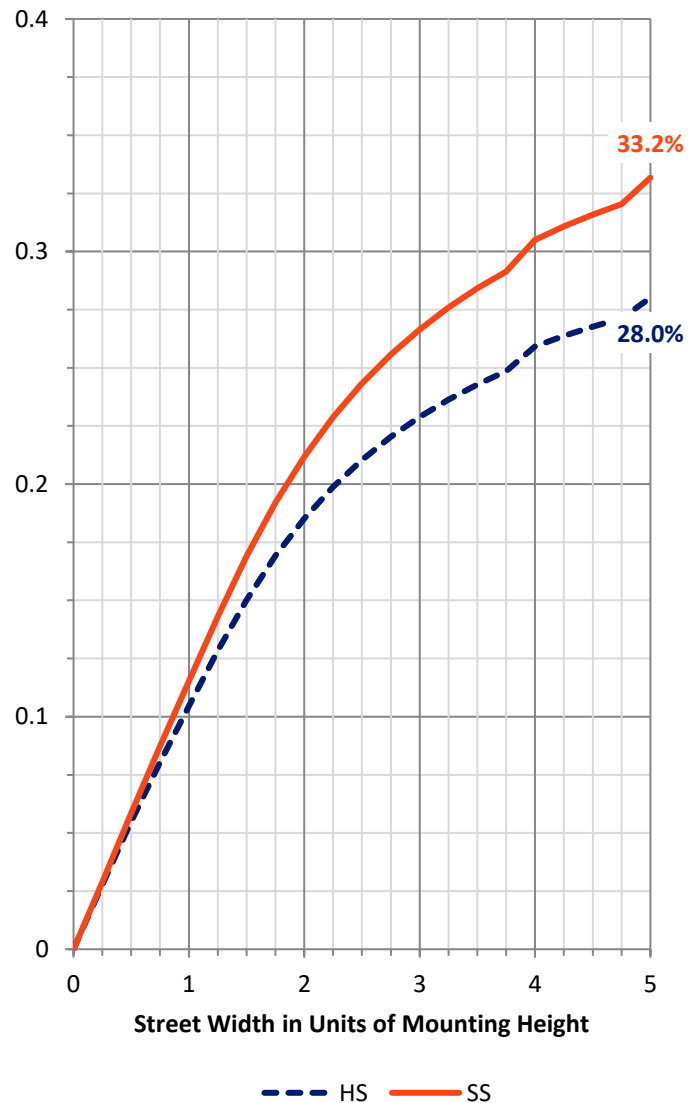
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1228.7	463.4	1692.1
	% Fixture	32.9	12.4	45.3
Street Side	Lumens	1478.9	567.0	2045.9
	% Fixture	39.6	15.2	54.7
Total	Lumens	2707.6	1030.4	3738.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	0.2
10°-20°	26.7	0.7
20°-30°	52.3	1.4
30°-40°	80.0	2.1
40°-50°	151.6	4.1
50°-60°	365.6	9.8
60°-70°	578.7	15.5
70°-80°	722.7	19.3
80°-90°	723.4	19.4
90°-100°	594.4	15.9
100°-110°	251.7	6.7
110°-120°	87.7	2.3
120°-130°	58.4	1.6
130°-140°	29.1	0.8
140°-150°	8.6	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2707.6	72.4
0°-180°	3738.0	100.0

Coefficient of Utilization



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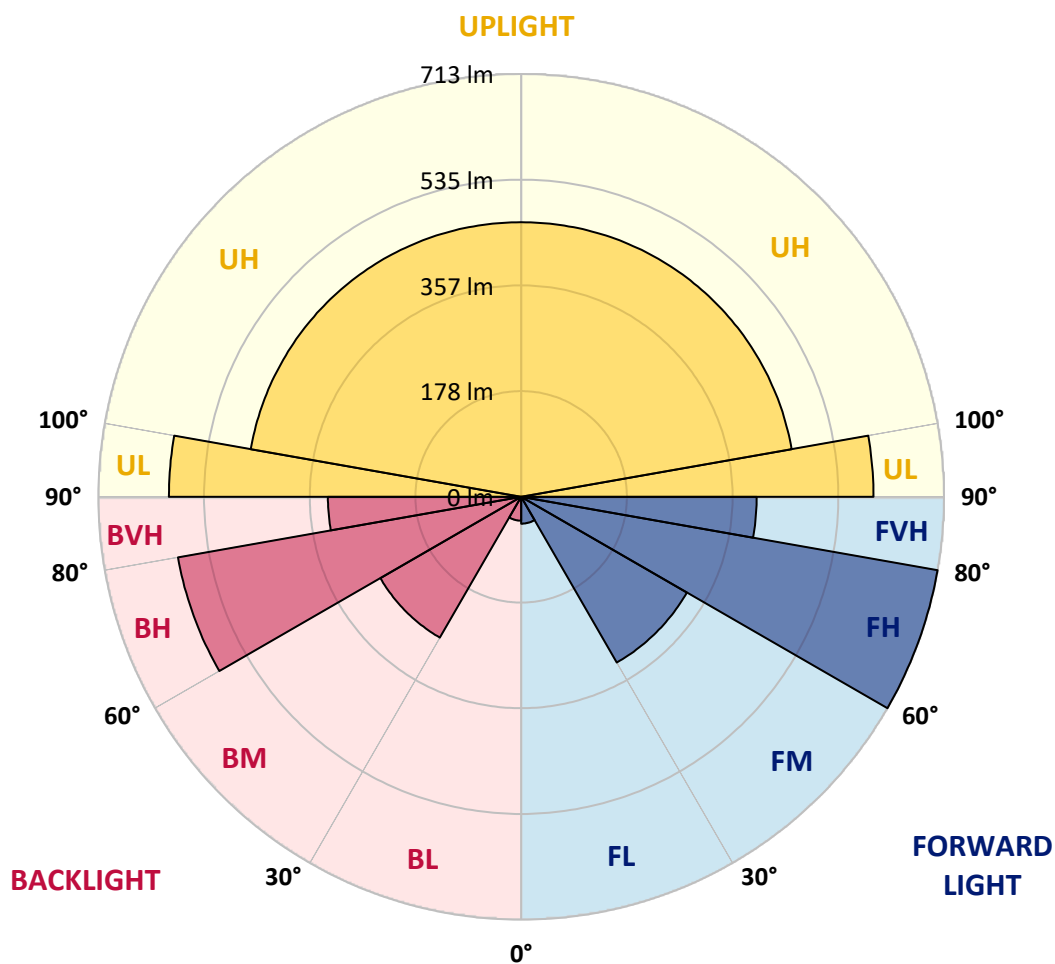
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	45.3	1.2			
FM	(30°-60°)	322.9	8.6			
FH	(60°-80°)	713.4	19.1			G1/1800
FVH	(80°-90°)	397.3	10.6			G3/500
BL	(0°-30°)	40.3	1.1	B0/110		
BM	(30°-60°)	274.3	7.3	B1/1000		
BH	(60°-80°)	588.0	15.7	B2/1000		G2/1000
BVH	(80°-90°)	326.1	8.7			G3/500
UL	(90°-100°)	594.4	15.9		U4/1000	
UH	(100°-180°)	463.4	12.4		U3/500	

BUG Rating: B2-U4-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
2.5°	55.2	55.7	55.7	56.3	55.2	55.2	54.6	54.0	53.4	52.9	52.3
5°	69.0	69.0	69.0	69.0	67.8	68.4	67.8	66.7	65.5	65.5	64.4
7.5°	79.9	79.9	79.9	79.9	79.3	79.3	78.7	78.2	77.0	76.4	75.9
10°	87.9	88.5	89.1	89.1	88.5	87.9	86.8	86.2	85.6	84.5	82.8
12.5°	95.4	96.0	96.0	96.0	95.4	94.8	93.7	92.5	92.0	90.8	89.7
15°	101.7	101.7	101.7	101.2	100.6	100.0	98.9	98.3	97.1	96.0	94.8
17.5°	106.3	106.9	106.9	106.3	105.2	105.2	103.4	103.4	102.3	101.2	100.0
20°	112.1	112.1	112.1	111.5	110.9	110.3	108.6	108.0	107.5	106.3	105.2
22.5°	117.8	117.8	117.2	117.2	116.1	115.5	114.4	113.8	112.6	111.5	110.9
25°	124.1	124.1	123.0	123.0	121.8	120.7	119.5	119.0	117.8	117.2	116.7
27.5°	128.7	128.7	127.6	127.0	126.4	124.7	124.1	123.0	121.8	121.3	120.7
30°	132.8	132.2	131.0	131.0	129.9	128.2	127.0	125.9	124.7	124.7	124.7
32.5°	135.1	134.5	133.3	132.8	131.0	129.9	128.7	127.6	126.4	127.0	127.0
35°	137.4	137.4	135.6	135.1	133.3	131.6	129.9	128.7	128.2	128.7	129.3
37.5°	141.4	140.8	139.1	138.5	136.2	135.6	134.5	133.9	133.3	133.9	133.9
40°	150.0	150.0	148.3	147.7	146.0	146.6	146.0	146.6	145.4	146.6	144.8
42.5°	166.7	167.8	166.1	164.9	163.8	166.1	168.4	167.8	166.7	167.2	163.2
45°	196.0	198.3	198.9	197.1	193.7	200.0	203.5	204.0	201.2	199.4	193.1
47.5°	240.2	243.7	242.0	242.0	236.2	245.4	250.0	252.9	248.3	245.4	235.1
50°	296.0	301.7	296.0	298.3	287.9	304.0	311.5	313.2	309.2	302.9	289.7
52.5°	364.9	369.5	367.8	366.1	355.2	376.4	389.7	396.6	389.7	380.5	360.4
55°	443.1	442.5	441.4	443.1	432.8	450.0	470.1	474.1	471.8	452.9	429.9
57.5°	507.5	508.1	508.1	508.1	495.4	510.4	528.7	531.6	528.2	511.5	481.0
60°	557.5	559.2	561.5	562.7	550.6	557.5	577.0	576.4	573.0	552.3	526.4
62.5°	600.0	602.9	607.5	607.5	600.0	598.3	616.1	613.8	612.1	592.5	562.7
65°	642.5	645.4	654.6	654.0	645.4	637.4	656.9	655.2	651.2	631.6	596.0
67.5°	678.7	682.8	693.1	694.3	687.9	678.2	690.2	685.6	683.3	662.7	623.6
70°	717.3	723.0	731.0	731.0	716.1	708.6	719.6	716.7	719.6	698.9	654.0
72.5°	746.6	748.9	765.5	767.3	750.0	733.3	746.0	739.1	741.4	719.0	674.7
75°	777.0	779.9	793.1	793.1	769.6	754.6	763.8	760.9	765.0	746.6	694.8
77.5°	788.5	796.0	809.8	806.9	790.2	764.4	774.1	773.0	775.3	752.3	701.7
78°	788.5	797.7	812.1	808.1	792.5	762.7	764.4	763.2	765.0	755.2	705.2
80°	786.2	799.4	808.1	802.9	789.7	756.3	755.2	755.8	759.2	748.9	696.0
82.5°	768.4	782.2	791.4	789.1	777.6	741.4	747.1	753.5	760.9	742.5	689.1
85°	752.3	766.7	771.3	769.6	756.3	719.0	723.6	732.2	728.7	715.5	667.8
87.5°	731.0	743.7	745.4	744.3	732.8	697.1	700.6	706.3	709.8	702.3	650.0
90°	697.1	708.6	712.7	712.7	700.6	670.1	678.2	686.2	692.5	678.2	626.4
92.5°	659.8	670.1	674.1	674.1	663.8	633.9	639.1	649.4	650.6	639.1	591.4
95°	620.1	626.4	633.9	632.8	620.1	590.8	596.0	608.6	610.4	600.0	557.5
97.5°	570.1	572.4	581.6	579.9	567.3	546.0	553.5	565.0	566.1	555.8	514.4
100°	496.0	495.4	503.5	503.5	491.4	478.2	488.5	502.9	501.2	490.8	455.8
102.5°	373.0	366.1	377.6	376.4	373.0	367.8	378.2	392.0	395.4	387.9	352.3
105°	236.8	232.8	236.2	233.9	232.2	222.4	226.4	231.0	227.6	230.5	210.9
107.5°	156.3	154.0	156.3	155.7	152.3	147.7	147.1	148.3	147.7	145.4	134.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	120.1	119.0	120.7	120.1	118.4	116.1	115.5	116.7	116.7	114.9	108.6
112.5°	104.0	103.4	105.2	104.6	103.4	101.7	101.7	102.3	102.9	101.2	96.6
115°	93.7	94.3	95.4	95.4	94.3	92.0	92.5	93.7	93.7	92.5	89.1
117.5°	87.4	87.9	89.1	88.5	87.4	86.2	86.2	87.4	88.5	86.8	83.9
120°	82.2	82.2	83.3	82.8	81.6	81.0	81.6	82.8	83.3	81.6	78.7
122.5°	76.4	77.0	77.6	77.6	76.4	76.4	77.6	78.2	78.7	77.0	73.6
125°	70.1	70.7	71.3	71.3	70.7	71.3	71.8	72.4	73.6	71.8	68.4
127.5°	63.2	63.8	64.4	64.4	64.4	64.9	66.1	66.7	67.8	66.1	62.6
130°	55.2	55.7	56.9	56.3	56.9	58.0	59.8	59.8	60.3	59.2	55.7
132.5°	46.6	47.1	48.3	48.3	48.9	50.6	51.7	51.7	52.3	51.2	48.3
135°	37.4	37.9	39.7	39.7	40.8	42.0	43.1	43.1	43.7	42.5	39.7
137.5°	29.3	29.3	31.0	31.0	32.2	32.8	33.3	33.3	33.9	33.3	31.0
140°	23.0	23.0	24.7	24.1	25.3	25.3	25.3	25.3	25.9	25.3	23.6
142.5°	17.8	18.4	19.5	19.0	20.1	20.1	20.1	19.5	20.7	20.1	18.4
145°	13.8	13.8	14.9	14.4	14.9	15.5	15.5	14.9	15.5	14.9	13.8
147.5°	9.2	9.2	10.3	9.8	10.3	10.9	11.5	10.9	11.5	10.9	9.8
150°	4.6	4.6	5.7	5.2	5.7	6.3	6.9	6.9	6.9	6.3	5.2
152.5°	0.0	0.0	0.6	0.6	0.6	1.1	1.1	1.1	1.7	1.7	1.1
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	0.6	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	0.6	0.0	0.0	0.0	0.6	0.6
177.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.6
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°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
2.5°	51.7	51.7	52.3	51.7	51.2	50.6	50.0	49.4	49.4	48.3	48.9
5°	64.4	63.8	63.2	62.1	61.5	60.9	60.3	59.8	59.8	59.8	60.3
7.5°	75.3	74.7	73.0	71.3	71.3	70.7	70.1	69.5	69.0	67.8	67.8
10°	82.2	81.6	80.5	79.9	78.7	78.2	77.6	76.4	75.3	73.0	73.0
12.5°	88.5	87.9	86.2	85.6	85.1	83.9	82.8	81.6	79.3	77.6	77.0
15°	94.3	93.1	91.4	90.8	89.7	87.9	86.8	85.6	83.3	81.0	80.5
17.5°	98.9	97.7	96.6	95.4	93.7	92.0	90.2	89.1	87.4	85.6	85.1
20°	104.0	102.9	101.7	100.0	98.3	96.6	94.8	93.1	92.0	90.2	90.2
22.5°	109.8	108.6	106.9	105.7	102.9	101.2	98.9	97.1	96.0	95.4	94.8
25°	115.5	114.4	112.1	110.3	107.5	105.2	103.4	101.2	100.0	100.6	100.6
27.5°	120.1	118.4	116.1	114.4	111.5	109.2	106.9	105.2	104.0	104.6	104.6
30°	123.6	122.4	120.1	117.8	114.9	112.1	110.3	108.0	107.5	108.0	108.6
32.5°	126.4	125.3	122.4	120.7	117.8	114.9	112.6	110.9	110.3	110.9	110.9
35°	128.7	128.2	125.3	122.4	120.1	117.2	115.5	113.8	113.8	114.9	114.4
37.5°	132.8	132.2	129.3	126.4	124.1	121.8	120.7	119.5	120.1	120.7	120.7
40°	143.1	139.7	137.4	133.9	131.6	130.5	129.3	129.3	129.9	130.5	130.5
42.5°	160.3	157.5	154.0	149.4	147.1	145.4	143.7	145.4	146.6	146.0	146.0
45°	187.9	184.5	179.3	172.4	168.4	166.1	166.1	168.4	169.5	167.8	166.7
47.5°	228.2	223.0	216.7	208.6	202.3	200.0	198.3	202.3	202.9	198.9	195.4
50°	279.3	274.7	266.7	258.0	252.3	246.0	240.8	246.6	246.6	237.9	234.5
52.5°	349.4	340.8	332.2	322.4	313.2	303.5	296.6	306.3	304.6	292.0	285.6
55°	417.8	413.2	407.5	390.8	382.2	364.4	356.3	366.7	362.1	344.3	339.7
57.5°	465.5	468.4	463.2	450.0	438.5	417.2	402.9	410.9	403.5	385.6	374.1
60°	504.6	507.5	505.8	490.8	483.3	456.3	436.8	446.6	440.8	420.1	409.2
62.5°	539.1	543.1	543.1	527.6	521.3	485.1	464.9	476.4	469.5	449.4	441.4
65°	572.4	575.3	577.0	561.5	554.0	512.1	489.1	504.0	501.2	480.5	476.4
67.5°	599.4	604.6	608.6	594.3	582.8	541.4	511.5	535.1	525.3	508.6	496.6
70°	629.3	632.8	639.1	626.4	615.5	569.0	531.0	563.2	552.9	533.9	517.8
72.5°	650.0	651.7	665.5	651.7	633.9	591.4	552.3	587.9	570.1	544.8	530.5
75°	669.0	671.8	689.7	671.8	658.6	610.9	566.1	607.5	590.8	561.5	546.6
77.5°	675.3	677.0	696.0	676.4	658.1	614.4	575.3	612.1	594.3	565.0	550.0
78°	680.5	681.6	700.0	680.5	661.5	615.0	576.4	614.4	597.1	569.0	552.9
80°	670.7	674.7	691.4	674.1	654.6	609.2	569.5	609.8	590.2	558.6	544.3
82.5°	660.9	663.8	677.6	659.8	642.5	600.0	560.4	598.9	581.6	548.3	536.2
85°	639.7	645.4	661.5	645.4	625.9	583.9	550.0	586.8	566.7	533.3	519.0
87.5°	622.4	629.3	643.7	632.2	612.7	569.5	533.9	572.4	553.5	520.7	506.9
90°	597.7	602.9	615.0	601.7	583.3	543.7	514.4	549.4	534.5	504.6	492.0
92.5°	564.4	569.5	581.6	567.8	551.7	512.1	483.9	519.0	499.4	474.7	460.9
95°	531.6	536.2	547.1	536.2	521.8	483.9	457.5	492.5	472.4	448.3	437.9
97.5°	490.2	493.7	503.5	491.4	479.3	443.1	418.4	450.6	432.2	412.7	400.0
100°	430.5	431.6	436.8	422.4	417.2	385.1	366.1	393.7	378.2	364.4	352.3
102.5°	332.2	321.3	320.7	313.8	305.8	279.9	273.0	287.9	289.1	277.6	270.7
105°	199.4	191.4	189.7	186.2	178.2	165.5	160.9	176.4	174.7	171.3	165.5
107.5°	128.7	126.4	126.4	123.6	119.0	111.5	108.0	114.4	112.1	110.3	108.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	105.2	104.0	104.0	101.2	98.9	92.5	89.7	93.7	92.0	90.8	88.5
112.5°	93.7	92.5	92.5	90.8	88.5	83.3	81.6	85.1	82.8	81.0	79.9
115°	86.2	85.6	85.1	83.3	81.6	77.0	75.3	78.7	77.0	75.3	74.7
117.5°	81.0	79.9	79.9	78.2	76.4	72.4	71.3	73.6	71.8	70.1	69.5
120°	75.9	75.3	74.7	73.6	71.8	67.8	66.7	68.4	67.2	65.5	64.4
122.5°	71.3	70.7	69.5	68.4	66.1	62.6	62.1	63.2	61.5	59.8	59.2
125°	66.1	64.9	64.4	62.6	60.3	57.5	56.9	57.5	55.7	54.0	53.4
127.5°	60.9	59.2	58.0	56.3	54.0	51.2	51.2	51.7	50.6	48.9	48.3
130°	54.0	52.9	51.2	49.4	47.1	44.8	44.8	45.4	44.3	43.1	43.1
132.5°	46.6	44.8	43.7	42.0	40.2	38.5	38.5	38.5	37.9	37.4	36.8
135°	38.5	37.4	35.6	34.5	32.8	31.6	31.6	32.2	31.6	30.5	30.5
137.5°	29.9	28.7	27.6	27.0	25.9	24.7	24.7	25.3	24.7	24.1	24.1
140°	23.0	21.8	21.3	20.7	19.5	19.0	19.0	19.0	19.0	18.4	18.4
142.5°	17.8	17.2	16.7	16.1	15.5	14.4	14.9	14.9	14.9	14.4	14.4
145°	13.2	12.6	12.1	11.5	11.5	10.9	10.9	10.9	10.9	10.9	10.3
147.5°	9.2	8.6	8.0	7.5	7.5	7.5	7.5	7.5	7.5	6.9	6.9
150°	5.2	4.6	4.0	3.4	3.4	3.4	3.4	4.0	3.4	3.4	3.4
152.5°	1.1	0.6	0.6	0.6	0.6	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	0.0	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	0.6	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)