

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: P314615

Luminaire Tested: **MPB-A5-D-U-SYM-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314615
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-A5-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: 4694 lumens
Efficiency: N/A
Efficacy: 92.8 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): 50.6
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: 28.75 FT

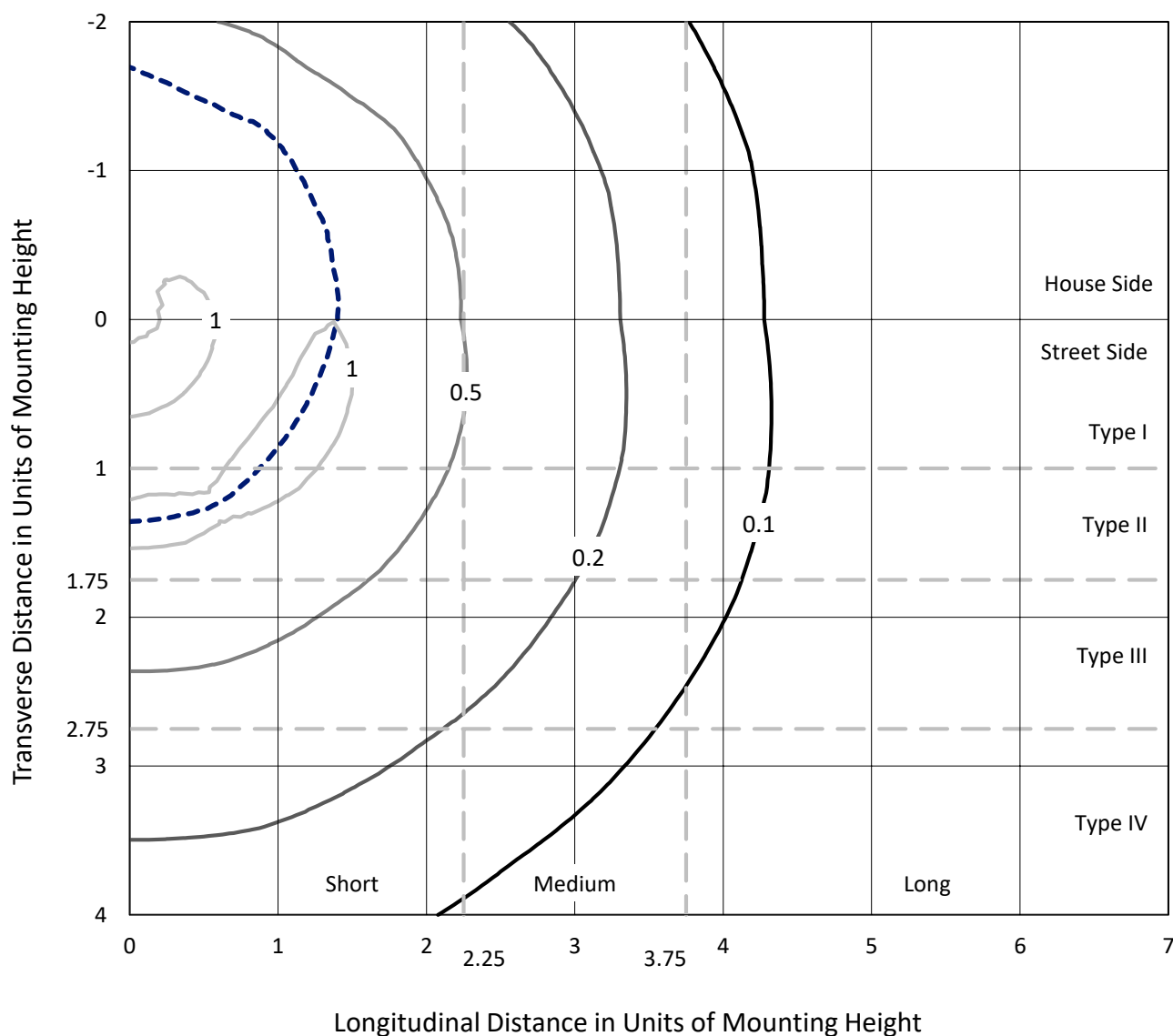


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

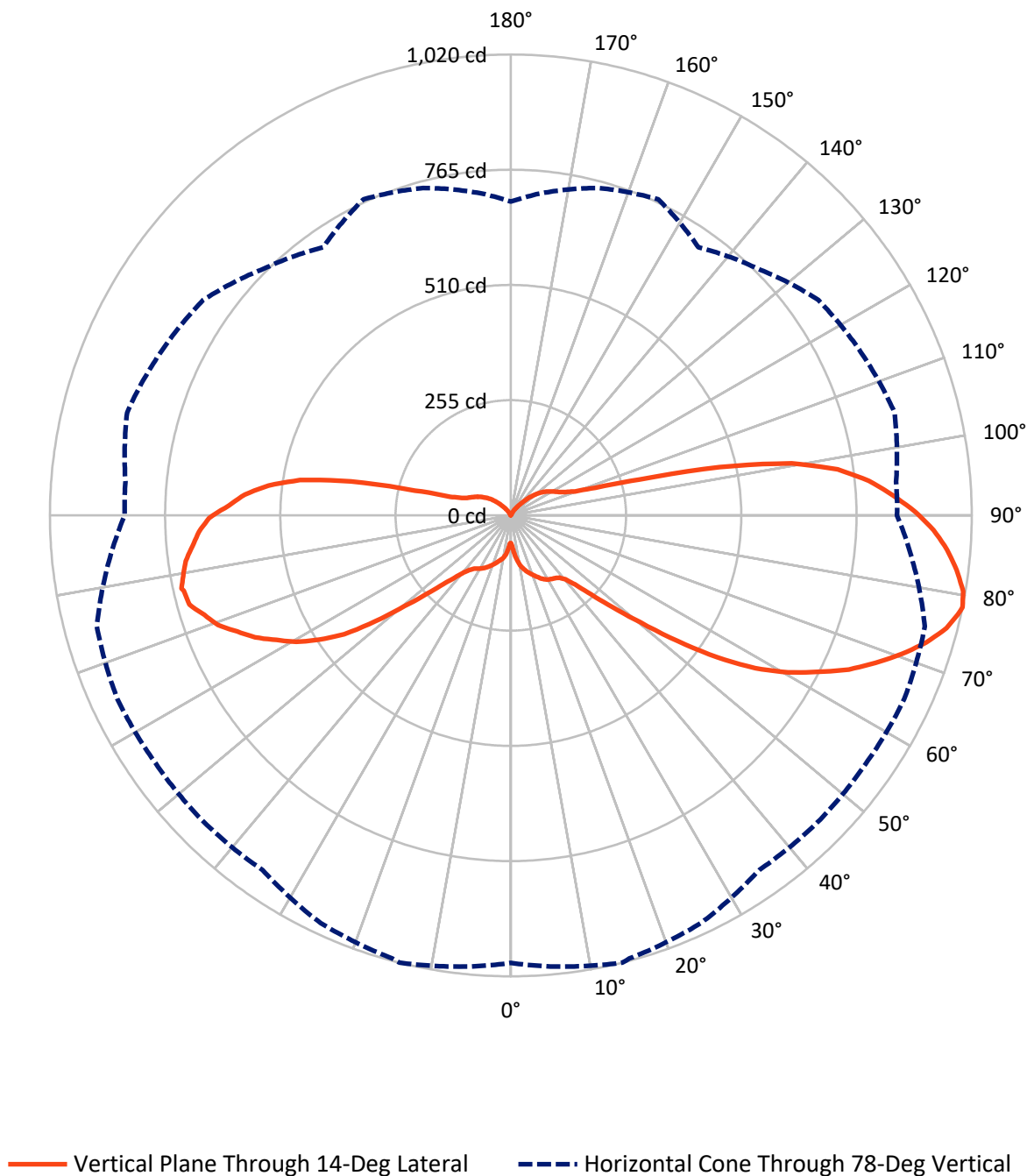


Based on 10 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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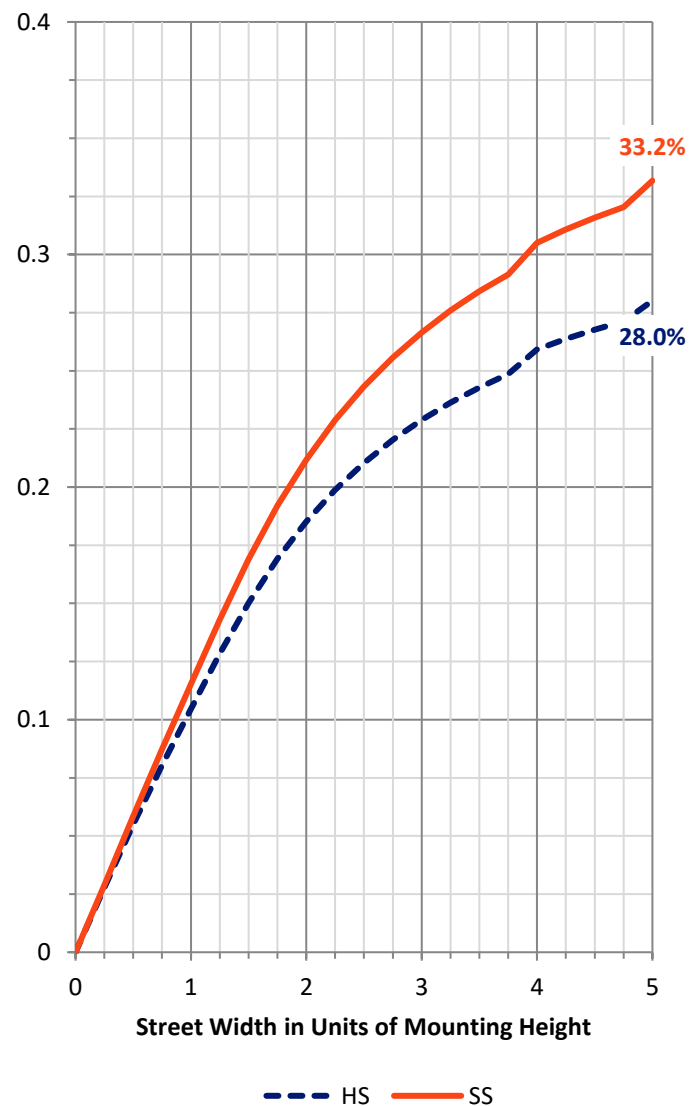
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1542.9	581.9	2124.8
	% Fixture	32.9	12.4	45.3
Street Side	Lumens	1857.2	712.0	2569.2
	% Fixture	39.6	15.2	54.7
Total	Lumens	3400.1	1293.9	4694.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	0.2
10°-20°	33.5	0.7
20°-30°	65.7	1.4
30°-40°	100.4	2.1
40°-50°	190.4	4.1
50°-60°	459.2	9.8
60°-70°	726.7	15.5
70°-80°	907.5	19.3
80°-90°	908.4	19.4
90°-100°	746.5	15.9
100°-110°	316.1	6.7
110°-120°	110.1	2.3
120°-130°	73.4	1.6
130°-140°	36.6	0.8
140°-150°	10.8	0.2
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3400.1	72.4
0°-180°	4694.0	100.0

Coefficient of Utilization



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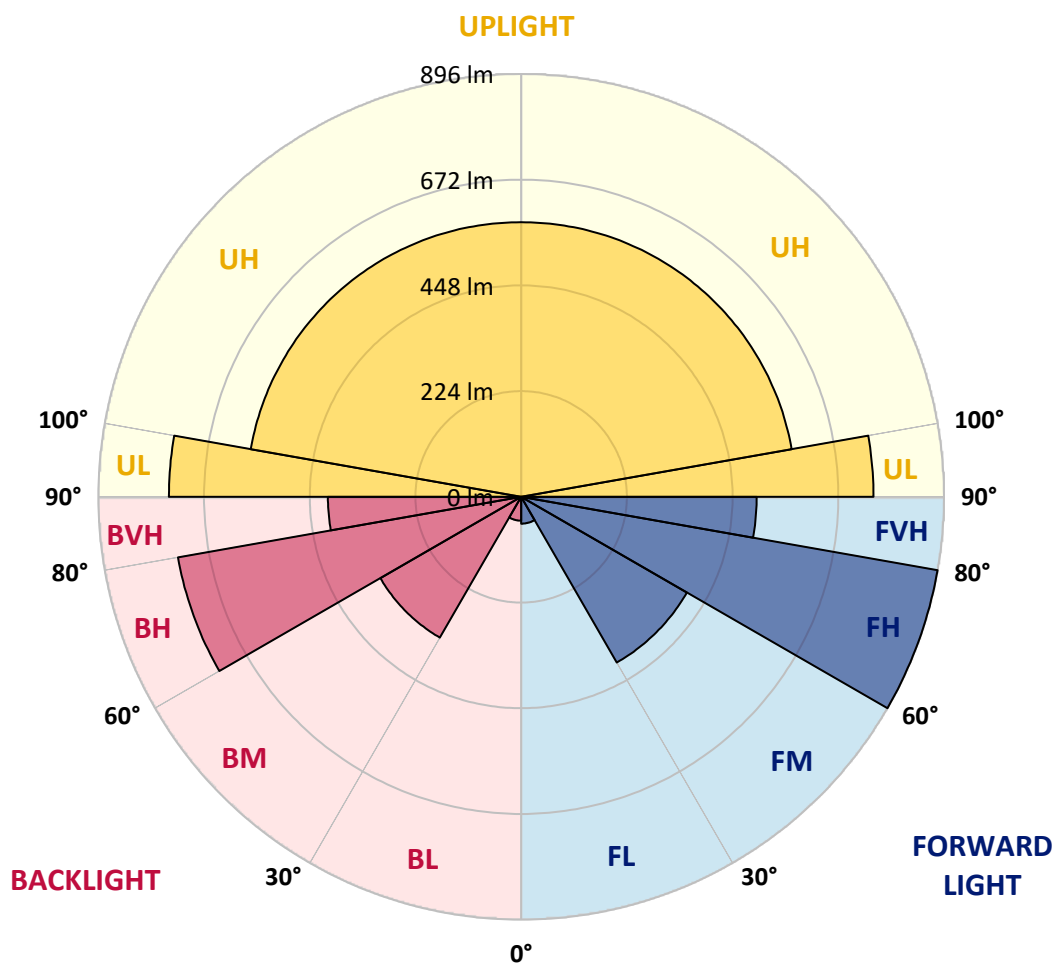
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	56.9	1.2			
FM	(30°-60°)	405.5	8.6			
FH	(60°-80°)	895.9	19.1			G1/1800
FVH	(80°-90°)	498.9	10.6			G3/500
BL	(0°-30°)	50.6	1.1	B0/110		
BM	(30°-60°)	344.5	7.3	B1/1000		
BH	(60°-80°)	738.3	15.7	B2/1000		G2/1000
BVH	(80°-90°)	409.5	8.7			G3/500
UL	(90°-100°)	746.5	15.9		U4/1000	
UH	(100°-180°)	581.9	12.4		U4/1000	

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°	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
2.5°	69.3	70.0	70.0	70.7	69.3	69.3	68.6	67.8	67.1	66.4	65.7
5°	86.6	86.6	86.6	86.6	85.2	85.9	85.2	83.7	82.3	82.3	80.8
7.5°	100.3	100.3	100.3	100.3	99.6	99.6	98.9	98.2	96.7	96.0	95.3
10°	110.4	111.1	111.9	111.9	111.1	110.4	109.0	108.3	107.5	106.1	103.9
12.5°	119.8	120.5	120.5	120.5	119.8	119.1	117.6	116.2	115.5	114.0	112.6
15°	127.7	127.7	127.7	127.0	126.3	125.6	124.1	123.4	122.0	120.5	119.1
17.5°	133.5	134.2	134.2	133.5	132.1	132.1	129.9	129.9	128.5	127.0	125.6
20°	140.7	140.7	140.7	140.0	139.3	138.6	136.4	135.7	135.0	133.5	132.1
22.5°	148.0	148.0	147.2	147.2	145.8	145.1	143.6	142.9	141.5	140.0	139.3
25°	155.9	155.9	154.4	154.4	153.0	151.6	150.1	149.4	148.0	147.2	146.5
27.5°	161.7	161.7	160.2	159.5	158.8	156.6	155.9	154.4	153.0	152.3	151.6
30°	166.7	166.0	164.5	164.5	163.1	160.9	159.5	158.1	156.6	156.6	156.6
32.5°	169.6	168.9	167.4	166.7	164.5	163.1	161.7	160.2	158.8	159.5	159.5
35°	172.5	172.5	170.3	169.6	167.4	165.3	163.1	161.7	160.9	161.7	162.4
37.5°	177.5	176.8	174.7	173.9	171.0	170.3	168.9	168.2	167.4	168.2	168.2
40°	188.4	188.4	186.2	185.5	183.3	184.0	183.3	184.0	182.6	184.0	181.9
42.5°	209.3	210.7	208.6	207.1	205.7	208.6	211.5	210.7	209.3	210.0	205.0
45°	246.1	249.0	249.7	247.5	243.2	251.2	255.5	256.2	252.6	250.4	242.5
47.5°	301.7	306.0	303.8	303.8	296.6	308.2	313.9	317.6	311.8	308.2	295.2
50°	371.7	378.9	371.7	374.6	361.6	381.8	391.2	393.3	388.3	380.3	363.7
52.5°	458.3	464.1	461.9	459.7	446.0	472.7	489.3	498.0	489.3	477.8	452.5
55°	556.4	555.7	554.3	556.4	543.4	565.1	590.4	595.4	592.5	568.7	539.8
57.5°	637.3	638.0	638.0	638.0	622.1	640.9	664.0	667.6	663.2	642.3	604.1
60°	700.1	702.2	705.1	706.6	691.4	700.1	724.6	723.9	719.5	693.6	661.1
62.5°	753.5	757.1	762.8	762.8	753.5	751.3	773.7	770.8	768.6	744.1	706.6
65°	806.9	810.5	822.0	821.3	810.5	800.4	824.9	822.7	817.7	793.2	748.4
67.5°	852.3	857.4	870.4	871.8	863.9	851.6	866.8	861.0	858.1	832.1	783.1
70°	900.7	907.9	918.0	918.0	899.2	889.9	903.6	900.0	903.6	877.6	821.3
72.5°	937.5	940.4	961.3	963.5	941.8	920.9	936.8	928.1	931.0	902.9	847.3
75°	975.7	979.4	996.0	996.0	966.4	947.6	959.1	955.5	960.6	937.5	872.5
77.5°	990.2	999.6	1016.9	1013.3	992.3	959.9	972.1	970.7	973.6	944.7	881.2
78°	990.2	1001.7	1019.8	1014.7	995.2	957.7	959.9	958.4	960.6	948.3	885.5
80°	987.3	1003.9	1014.7	1008.2	991.6	949.8	948.3	949.0	953.4	940.4	874.0
82.5°	964.9	982.2	993.8	990.9	976.5	931.0	938.2	946.2	955.5	932.4	865.3
85°	944.7	962.8	968.5	966.4	949.8	902.9	908.6	919.5	915.1	898.5	838.6
87.5°	918.0	933.9	936.1	934.6	920.2	875.4	879.8	887.0	891.3	881.9	816.3
90°	875.4	889.9	894.9	894.9	879.8	841.5	851.6	861.7	869.7	851.6	786.7
92.5°	828.5	841.5	846.6	846.6	833.6	796.0	802.5	815.5	817.0	802.5	742.6
95°	778.7	786.7	796.0	794.6	778.7	741.9	748.4	764.3	766.5	753.5	700.1
97.5°	715.9	718.8	730.4	728.2	712.3	685.6	695.0	709.4	710.9	697.9	645.9
100°	622.8	622.1	632.2	632.2	617.1	600.5	613.5	631.5	629.3	616.3	572.3
102.5°	468.4	459.7	474.2	472.7	468.4	461.9	474.9	492.2	496.5	487.2	442.4
105°	297.3	292.3	296.6	293.7	291.6	279.3	284.4	290.1	285.8	289.4	264.9
107.5°	196.3	193.4	196.3	195.6	191.3	185.5	184.8	186.2	185.5	182.6	168.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	150.8	149.4	151.6	150.8	148.7	145.8	145.1	146.5	146.5	144.3	136.4
112.5°	130.6	129.9	132.1	131.4	129.9	127.7	127.7	128.5	129.2	127.0	121.2
115°	117.6	118.4	119.8	119.8	118.4	115.5	116.2	117.6	117.6	116.2	111.9
117.5°	109.7	110.4	111.9	111.1	109.7	108.3	108.3	109.7	111.1	109.0	105.4
120°	103.2	103.2	104.6	103.9	102.5	101.8	102.5	103.9	104.6	102.5	98.9
122.5°	96.0	96.7	97.4	97.4	96.0	96.0	97.4	98.2	98.9	96.7	92.4
125°	88.0	88.8	89.5	89.5	88.8	89.5	90.2	90.9	92.4	90.2	85.9
127.5°	79.4	80.1	80.8	80.8	80.8	81.6	83.0	83.7	85.2	83.0	78.7
130°	69.3	70.0	71.4	70.7	71.4	72.9	75.1	75.1	75.8	74.3	70.0
132.5°	58.5	59.2	60.6	60.6	61.3	63.5	65.0	65.0	65.7	64.2	60.6
135°	46.9	47.6	49.8	49.8	51.2	52.7	54.1	54.1	54.8	53.4	49.8
137.5°	36.8	36.8	39.0	39.0	40.4	41.1	41.9	41.9	42.6	41.9	39.0
140°	28.9	28.9	31.0	30.3	31.8	31.8	31.8	31.8	32.5	31.8	29.6
142.5°	22.4	23.1	24.5	23.8	25.3	25.3	25.3	24.5	26.0	25.3	23.1
145°	17.3	17.3	18.8	18.0	18.8	19.5	19.5	18.8	19.5	18.8	17.3
147.5°	11.5	11.5	13.0	12.3	13.0	13.7	14.4	13.7	14.4	13.7	12.3
150°	5.8	5.8	7.2	6.5	7.2	7.9	8.7	8.7	8.7	7.9	6.5
152.5°	0.0	0.0	0.7	0.7	0.7	1.4	1.4	1.4	2.2	2.2	1.4
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	0.7	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	0.7	0.0	0.0	0.0	0.7	0.7
177.5°	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.7
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°	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
2.5°	65.0	65.0	65.7	65.0	64.2	63.5	62.8	62.1	62.1	60.6	61.3
5°	80.8	80.1	79.4	77.9	77.2	76.5	75.8	75.1	75.1	75.1	75.8
7.5°	94.5	93.8	91.7	89.5	89.5	88.8	88.0	87.3	86.6	85.2	85.2
10°	103.2	102.5	101.0	100.3	98.9	98.2	97.4	96.0	94.5	91.7	91.7
12.5°	111.1	110.4	108.3	107.5	106.8	105.4	103.9	102.5	99.6	97.4	96.7
15°	118.4	116.9	114.8	114.0	112.6	110.4	109.0	107.5	104.6	101.8	101.0
17.5°	124.1	122.7	121.2	119.8	117.6	115.5	113.3	111.9	109.7	107.5	106.8
20°	130.6	129.2	127.7	125.6	123.4	121.2	119.1	116.9	115.5	113.3	113.3
22.5°	137.8	136.4	134.2	132.8	129.2	127.0	124.1	122.0	120.5	119.8	119.1
25°	145.1	143.6	140.7	138.6	135.0	132.1	129.9	127.0	125.6	126.3	126.3
27.5°	150.8	148.7	145.8	143.6	140.0	137.1	134.2	132.1	130.6	131.4	131.4
30°	155.2	153.7	150.8	148.0	144.3	140.7	138.6	135.7	135.0	135.7	136.4
32.5°	158.8	157.3	153.7	151.6	148.0	144.3	141.5	139.3	138.6	139.3	139.3
35°	161.7	160.9	157.3	153.7	150.8	147.2	145.1	142.9	142.9	144.3	143.6
37.5°	166.7	166.0	162.4	158.8	155.9	153.0	151.6	150.1	150.8	151.6	151.6
40°	179.7	175.4	172.5	168.2	165.3	163.8	162.4	162.4	163.1	163.8	163.8
42.5°	201.4	197.7	193.4	187.6	184.8	182.6	180.4	182.6	184.0	183.3	183.3
45°	236.0	231.7	225.2	216.5	211.5	208.6	208.6	211.5	212.9	210.7	209.3
47.5°	286.5	280.0	272.1	262.0	254.0	251.2	249.0	254.0	254.8	249.7	245.4
50°	350.7	345.0	334.9	324.0	316.8	308.9	302.4	309.6	309.6	298.8	294.5
52.5°	438.8	428.0	417.1	404.9	393.3	381.1	372.4	384.7	382.5	366.6	358.7
55°	524.7	518.9	511.7	490.8	479.9	457.6	447.5	460.4	454.7	432.3	426.5
57.5°	584.6	588.2	581.7	565.1	550.7	524.0	505.9	516.0	506.6	484.3	469.8
60°	633.7	637.3	635.1	616.3	607.0	573.0	548.5	560.8	553.5	527.6	513.9
62.5°	677.0	682.0	682.0	662.5	654.6	609.1	583.9	598.3	589.6	564.4	554.3
65°	718.8	722.4	724.6	705.1	695.7	643.0	614.2	632.9	629.3	603.3	598.3
67.5°	752.7	759.2	764.3	746.2	731.8	679.8	642.3	671.9	659.6	638.7	623.6
70°	790.3	794.6	802.5	786.7	772.9	714.5	666.9	707.3	694.3	670.5	650.3
72.5°	816.3	818.4	835.7	818.4	796.0	742.6	693.6	738.3	715.9	684.2	666.1
75°	840.1	843.7	866.0	843.7	827.1	767.2	710.9	762.8	741.9	705.1	686.3
77.5°	848.0	850.2	874.0	849.4	826.4	771.5	722.4	768.6	746.2	709.4	690.7
78°	854.5	855.9	879.0	854.5	830.7	772.2	723.9	771.5	749.9	714.5	694.3
80°	842.2	847.3	868.2	846.6	822.0	765.0	715.2	765.7	741.2	701.5	683.5
82.5°	830.0	833.6	850.9	828.5	806.9	753.5	703.7	752.0	730.4	688.5	673.4
85°	803.3	810.5	830.7	810.5	785.9	733.3	690.7	736.9	711.6	669.7	651.7
87.5°	781.6	790.3	808.3	793.9	769.3	715.2	670.5	718.8	695.0	653.9	636.5
90°	750.6	757.1	772.2	755.6	732.5	682.7	645.9	690.0	671.2	633.7	617.8
92.5°	708.7	715.2	730.4	713.0	692.8	643.0	607.7	651.7	627.2	596.1	578.8
95°	667.6	673.4	687.1	673.4	655.3	607.7	574.5	618.5	593.2	562.9	549.9
97.5°	615.6	619.9	632.2	617.1	601.9	556.4	525.4	565.8	542.7	518.2	502.3
100°	540.6	542.0	548.5	530.5	524.0	483.5	459.7	494.4	474.9	457.6	442.4
102.5°	417.1	403.4	402.7	394.1	383.9	351.5	342.8	361.6	363.0	348.6	339.9
105°	250.4	240.3	238.2	233.8	223.7	207.9	202.1	221.6	219.4	215.1	207.9
107.5°	161.7	158.8	158.8	155.2	149.4	140.0	135.7	143.6	140.7	138.6	135.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	132.1	130.6	130.6	127.0	124.1	116.2	112.6	117.6	115.5	114.0	111.1
112.5°	117.6	116.2	116.2	114.0	111.1	104.6	102.5	106.8	103.9	101.8	100.3
115°	108.3	107.5	106.8	104.6	102.5	96.7	94.5	98.9	96.7	94.5	93.8
117.5°	101.8	100.3	100.3	98.2	96.0	90.9	89.5	92.4	90.2	88.0	87.3
120°	95.3	94.5	93.8	92.4	90.2	85.2	83.7	85.9	84.4	82.3	80.8
122.5°	89.5	88.8	87.3	85.9	83.0	78.7	77.9	79.4	77.2	75.1	74.3
125°	83.0	81.6	80.8	78.7	75.8	72.2	71.4	72.2	70.0	67.8	67.1
127.5°	76.5	74.3	72.9	70.7	67.8	64.2	64.2	65.0	63.5	61.3	60.6
130°	67.8	66.4	64.2	62.1	59.2	56.3	56.3	57.0	55.6	54.1	54.1
132.5°	58.5	56.3	54.8	52.7	50.5	48.4	48.4	48.4	47.6	46.9	46.2
135°	48.4	46.9	44.7	43.3	41.1	39.7	39.7	40.4	39.7	38.3	38.3
137.5°	37.5	36.1	34.6	33.9	32.5	31.0	31.0	31.8	31.0	30.3	30.3
140°	28.9	27.4	26.7	26.0	24.5	23.8	23.8	23.8	23.8	23.1	23.1
142.5°	22.4	21.7	20.9	20.2	19.5	18.0	18.8	18.8	18.8	18.0	18.0
145°	16.6	15.9	15.2	14.4	14.4	13.7	13.7	13.7	13.7	13.7	13.0
147.5°	11.5	10.8	10.1	9.4	9.4	9.4	9.4	9.4	9.4	8.7	8.7
150°	6.5	5.8	5.1	4.3	4.3	4.3	4.3	5.1	4.3	4.3	4.3
152.5°	1.4	0.7	0.7	0.7	0.7	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	0.7	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)