

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: P212573

Luminaire Tested: **MPB-AF-D-U-ASYM-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P212573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25987)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPB-AF-D-U-ASYM-600
Description: BRECKENRIDGE LED POST-TOP LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND ASYMMETRIC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3004.4 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.62')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

Input Watts (W): 34
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



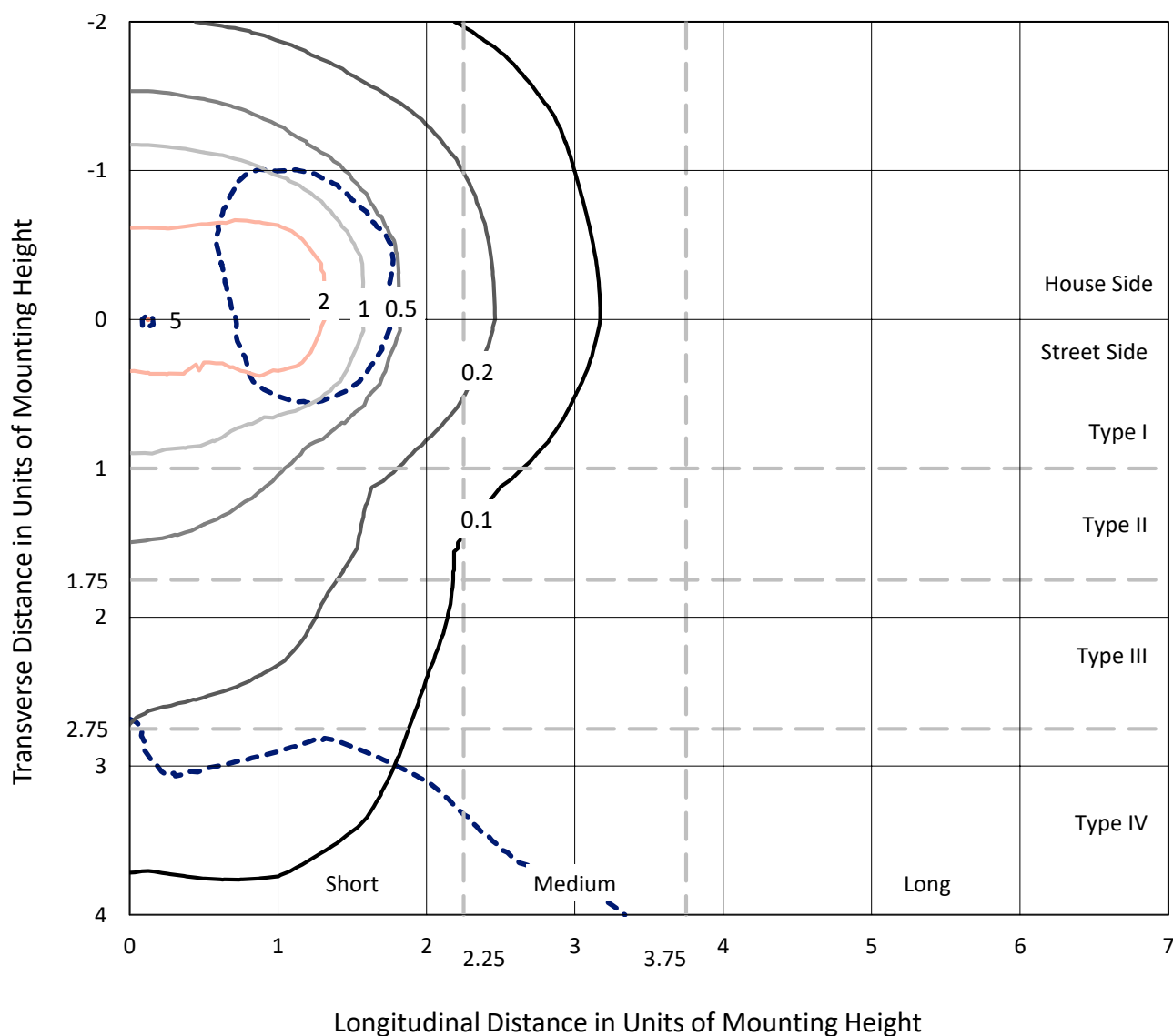
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

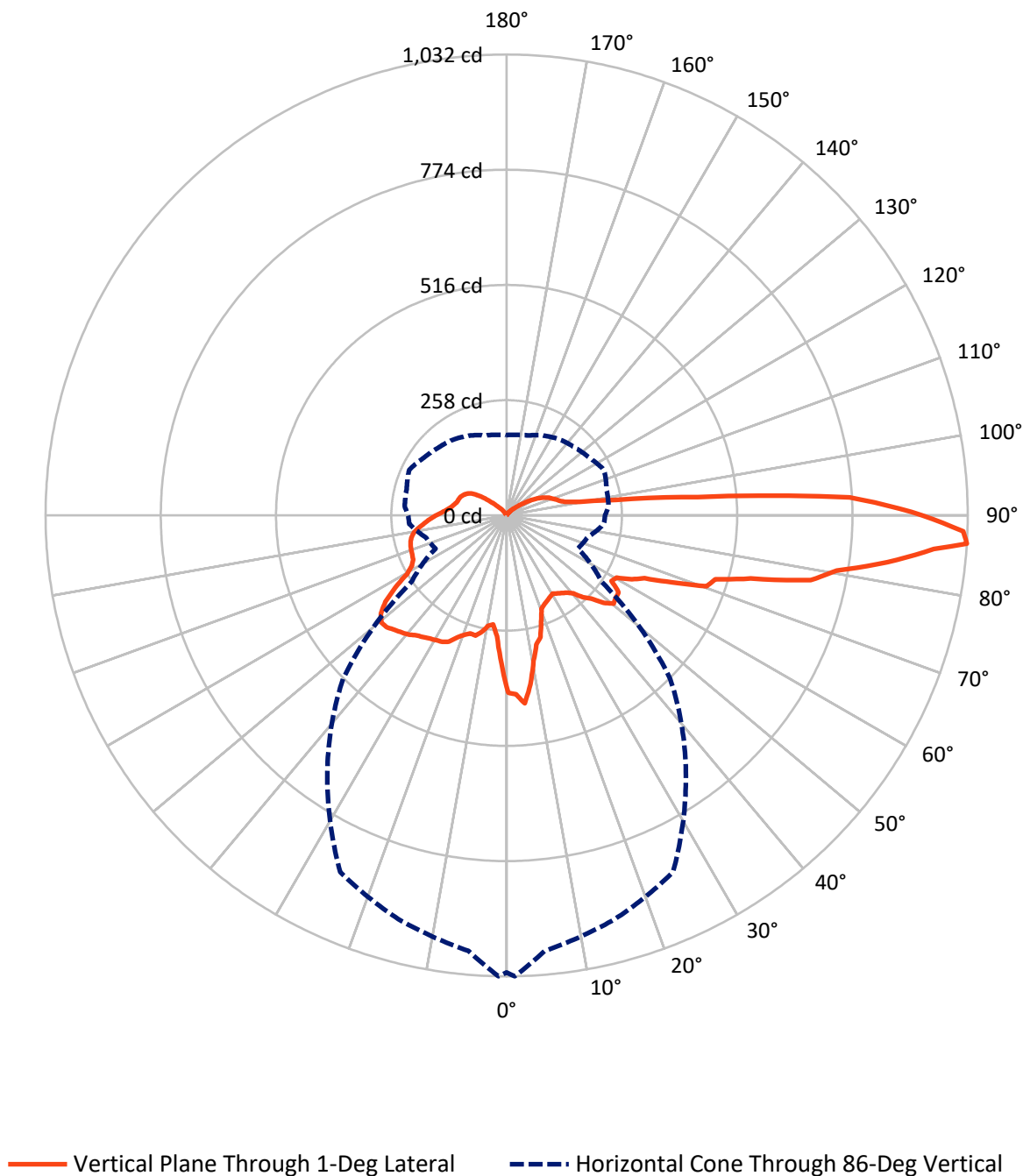


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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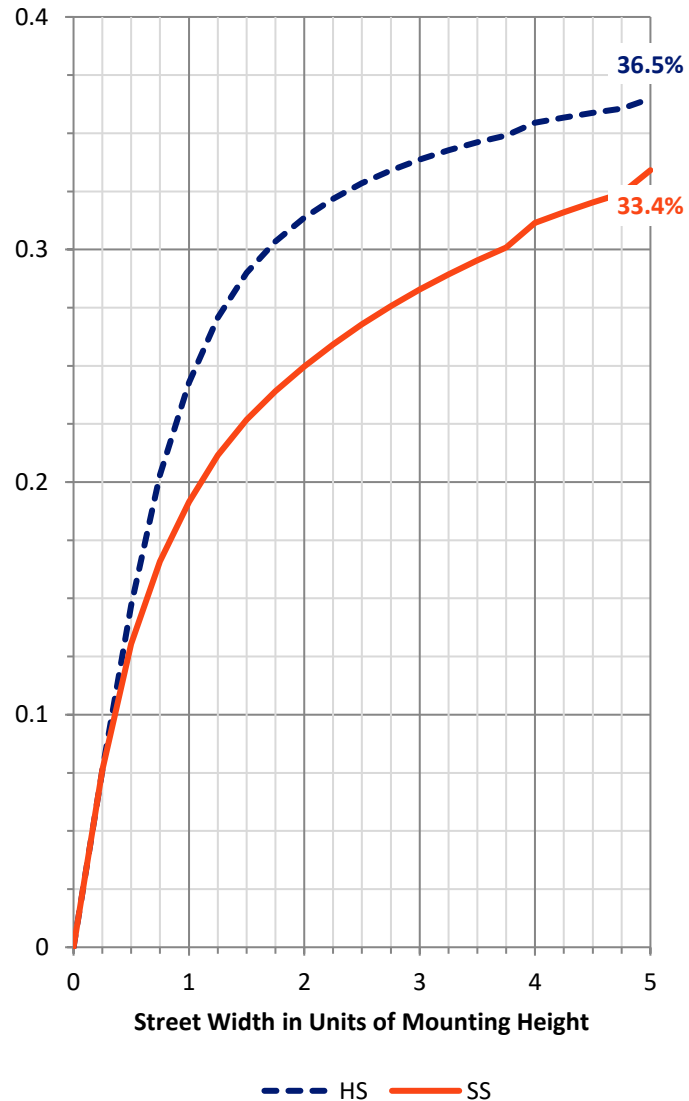
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1161.7	284.7	1446.5
	% Fixture	38.7	9.5	48.1
Street Side	Lumens	1221.9	336.0	1557.9
	% Fixture	40.7	11.2	51.9
Total	Lumens	2383.6	620.8	3004.4
	% Fixture	79.3	20.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.9	1.3
10°-20°	92.4	3.1
20°-30°	143.5	4.8
30°-40°	229.7	7.6
40°-50°	379.5	12.6
50°-60°	409.9	13.6
60°-70°	313.4	10.4
70°-80°	370.0	12.3
80°-90°	407.2	13.6
90°-100°	247.2	8.2
100°-110°	125.8	4.2
110°-120°	122.4	4.1
120°-130°	89.9	3.0
130°-140°	28.5	0.9
140°-150°	6.3	0.2
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2383.6	79.3
0°-180°	3004.4	100.0

Coefficient of Utilization



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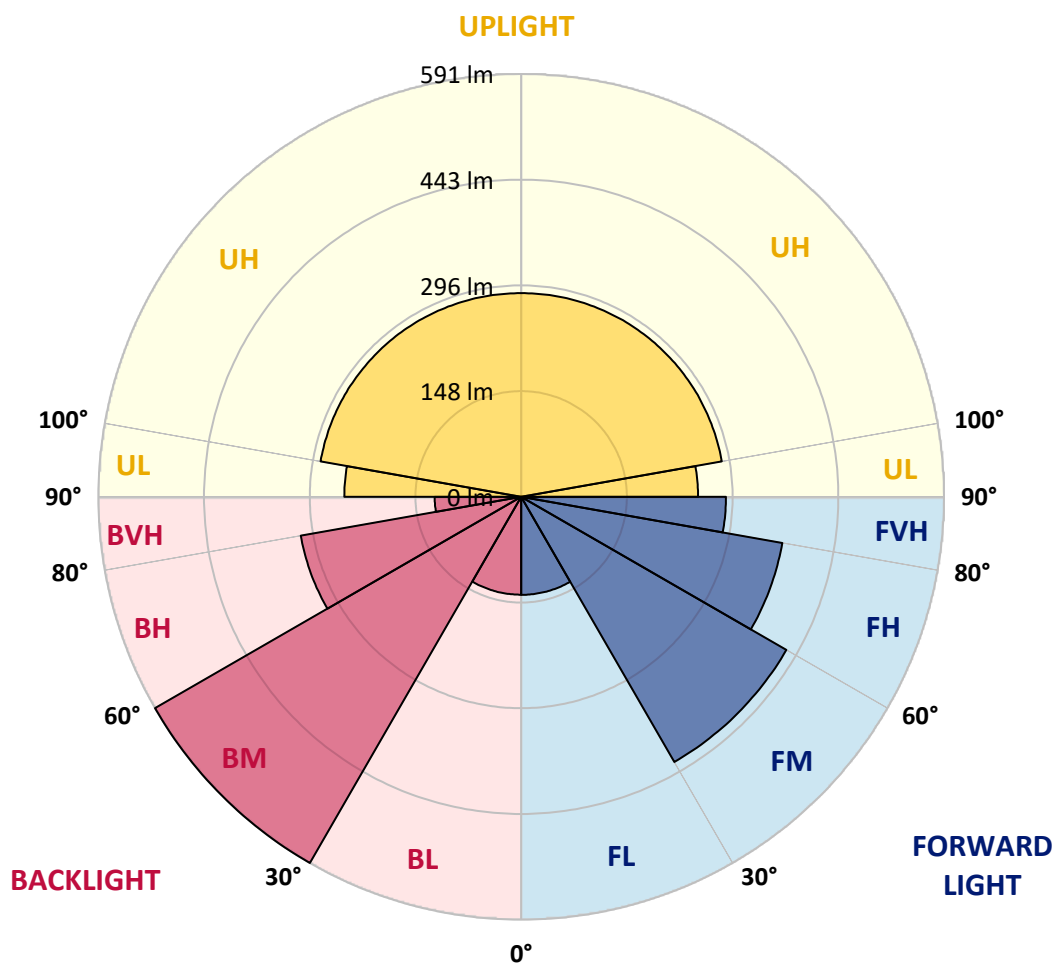
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	137.0	4.6			
FM	(30°-60°)	428.0	14.2			
FH	(60°-80°)	370.7	12.3			G0/660
FVH	(80°-90°)	286.2	9.5			G3/500
BL	(0°-30°)	136.9	4.6	B1/500		
BM	(30°-60°)	591.1	19.7	B1/1000		
BH	(60°-80°)	312.8	10.4	B1/500		G1/500
BVH	(80°-90°)	121.0	4.0			G2/225
UL	(90°-100°)	247.2	8.2		U3/500	
UH	(100°-180°)	284.7	9.5		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	396.8	396.8	396.8	396.8	396.8	396.8	396.8	396.8	396.8	396.8	396.8
2.5°	401.9	401.1	399.4	401.9	404.6	424.2	437.1	435.4	419.9	413.1	408.0
5°	428.5	422.6	418.3	425.1	425.1	461.1	479.0	452.6	447.3	460.2	446.5
7.5°	383.9	382.3	380.5	388.2	402.8	466.3	476.5	537.4	555.4	534.0	531.4
10°	328.3	330.8	328.3	369.4	426.8	470.6	413.1	428.5	456.8	466.3	420.8
12.5°	293.1	296.6	299.9	326.5	342.0	328.3	354.9	365.1	383.1	380.5	361.7
15°	279.4	282.8	281.1	269.1	286.2	311.1	332.6	353.1	373.7	353.9	353.9
17.5°	258.0	250.2	248.6	236.5	266.6	300.8	340.2	368.6	363.4	393.4	419.9
20°	225.5	222.8	222.8	228.8	254.5	296.6	367.6	431.1	473.9	440.5	400.3
22.5°	216.9	215.9	219.4	229.7	254.5	276.0	307.7	335.1	339.4	335.9	335.1
25°	211.6	211.6	215.1	227.1	236.5	252.9	291.4	315.4	317.1	334.3	334.3
27.5°	209.1	206.5	206.5	218.5	231.4	256.2	276.8	299.1	310.3	344.5	401.1
30°	204.0	203.2	204.0	215.9	235.7	252.0	278.5	297.4	313.6	348.0	364.3
32.5°	206.5	208.3	205.7	214.3	229.7	252.0	282.8	312.8	324.8	384.8	413.1
35°	213.4	213.4	210.0	214.3	226.3	248.6	286.2	331.6	353.9	432.0	473.9
37.5°	216.9	219.4	218.5	225.5	238.2	256.2	288.0	348.0	393.4	465.3	543.4
40°	229.7	229.7	230.6	242.5	252.0	264.0	288.8	356.5	444.8	505.6	630.8
42.5°	247.7	250.2	246.8	246.0	253.7	270.0	288.8	353.1	508.2	566.5	732.7
45°	262.3	265.7	263.1	269.1	268.2	281.1	288.8	345.3	527.1	633.4	822.8
47.5°	295.7	292.3	295.7	297.4	289.7	294.8	299.1	343.7	522.8	712.2	872.5
50°	309.4	310.3	307.7	302.6	300.8	295.7	299.9	331.6	508.2	765.4	904.2
52.5°	308.5	306.0	309.4	301.7	295.7	294.0	287.1	311.1	480.0	739.7	827.9
55°	307.7	304.2	298.3	288.0	277.7	276.0	272.5	288.8	414.0	619.7	726.8
57.5°	276.8	276.8	273.4	273.4	264.8	256.2	256.2	251.1	346.3	502.3	624.8
60°	281.9	282.8	279.4	284.6	278.5	254.5	258.0	224.5	289.7	379.7	456.8
62.5°	317.9	314.6	306.8	306.8	299.1	259.7	241.7	216.9	261.4	324.0	381.4
65°	342.0	339.4	340.2	346.3	337.7	288.8	269.1	219.4	251.1	310.3	360.8
67.5°	397.7	399.4	401.9	418.3	388.2	327.4	299.9	225.5	246.8	307.7	355.7
70°	494.5	474.9	460.2	424.2	412.2	338.5	307.7	231.4	243.4	307.7	352.2
72.5°	482.5	488.6	480.8	494.5	491.1	395.1	316.3	240.8	240.8	302.6	351.4
75°	571.6	564.0	581.1	635.0	576.8	454.3	367.6	251.1	233.9	293.1	344.5
77.5°	698.5	695.9	676.3	660.8	626.6	480.8	426.8	279.4	217.7	273.4	324.8
80°	757.6	749.1	762.8	731.9	715.7	553.6	420.8	267.4	198.9	248.6	294.8
82.5°	863.1	858.8	867.4	949.6	815.9	634.2	462.8	273.4	186.0	222.0	261.4
85°	954.7	959.0	987.4	956.5	886.2	692.5	489.4	285.4	179.1	197.1	230.6
86°	1023.4	1032.0	978.8	935.9	881.1	699.4	517.7	259.7	175.7	187.7	218.5
87.5°	1009.7	1022.4	1003.6	985.6	919.6	721.7	528.8	231.4	172.3	174.0	201.4
90°	935.1	906.7	937.6	965.9	846.8	651.4	475.7	239.2	156.8	156.0	177.4
92.5°	772.2	768.7	749.9	743.9	671.1	525.4	399.4	199.7	144.0	139.7	157.7
95°	457.7	430.3	415.6	489.4	444.8	404.6	294.0	186.0	129.4	125.1	138.8
97.5°	256.2	247.7	238.2	271.7	282.8	253.7	190.3	136.3	114.9	114.9	125.1
100°	173.1	166.2	163.7	164.6	178.3	164.6	137.2	111.4	103.7	108.0	115.7
102.5°	134.5	133.7	131.1	132.9	135.4	126.8	114.9	105.5	102.0	108.0	112.3
105°	122.5	122.5	120.0	119.2	121.7	114.0	108.0	102.0	103.7	112.3	114.9
107.5°	114.9	115.7	112.3	112.3	112.3	108.0	102.8	100.2	107.1	118.3	120.8



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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	108.0	108.0	105.5	105.5	106.3	102.0	98.6	98.6	110.6	125.1	128.6
112.5°	101.2	102.0	99.4	99.4	99.4	96.0	94.3	97.7	114.9	133.7	138.8
115°	92.6	92.6	90.8	92.6	92.6	90.8	90.8	97.7	124.3	146.6	154.3
117.5°	82.2	82.2	81.4	84.0	84.8	85.7	88.3	98.6	134.5	161.1	173.1
120°	71.1	71.1	71.1	74.6	76.3	78.9	84.0	96.9	140.6	172.3	185.2
122.5°	59.1	59.1	59.1	61.7	64.2	69.5	76.3	90.0	134.5	166.2	180.9
125°	47.2	47.2	48.0	49.7	53.1	58.3	65.2	77.9	115.7	143.1	158.6
127.5°	37.7	37.7	37.7	39.4	42.0	47.2	53.1	64.2	90.8	114.0	128.6
130°	30.0	30.0	30.0	30.9	32.5	36.0	42.0	51.5	69.5	85.7	96.9
132.5°	24.0	23.1	24.0	24.0	25.7	28.2	31.7	37.7	48.9	60.9	69.5
135°	19.7	19.7	19.7	19.7	20.6	21.4	24.9	27.4	33.5	41.1	45.4
137.5°	15.4	15.4	15.4	15.4	16.3	16.3	18.0	20.6	23.1	28.2	32.5
140°	12.0	12.0	12.0	12.0	12.0	12.9	13.7	14.5	17.2	21.4	24.9
142.5°	9.4	9.4	9.4	9.4	9.4	9.4	10.3	11.2	12.9	15.4	18.0
145°	6.0	6.9	6.0	6.0	6.0	6.0	6.9	6.9	8.6	10.3	12.0
147.5°	3.5	4.3	3.5	3.5	3.5	3.5	3.5	4.3	4.3	6.0	6.9
150°	1.7	1.7	1.7	1.7	1.7	0.8	1.7	1.7	1.7	2.6	3.5
152.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7
155°	0.0	0.0	0.0	0.8	0.8	0.8	0.0	0.8	0.8	1.7	1.7
157.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7
160°	0.0	0.0	0.0	0.8	0.8	0.8	0.0	0.8	0.8	1.7	1.7
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	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	396.8	396.8	396.8	396.8	396.8	396.8	396.8	396.8	396.8	396.8	396.8
2.5°	406.2	406.2	408.8	408.8	406.2	396.0	380.5	365.1	347.1	334.3	330.8
5°	437.1	423.4	408.8	384.8	364.3	360.0	329.1	300.8	284.6	272.5	270.9
7.5°	531.4	514.2	455.1	438.8	411.4	377.1	290.5	262.3	251.1	246.8	246.0
10°	399.4	377.1	342.0	329.1	324.0	305.1	276.8	259.7	253.7	252.0	250.2
12.5°	349.6	338.5	323.2	312.0	304.2	288.8	272.5	262.3	260.5	265.7	266.6
15°	348.8	353.1	345.3	318.9	297.4	284.6	275.1	273.4	274.3	278.5	277.7
17.5°	431.1	414.0	385.7	345.3	314.6	315.4	313.6	288.0	284.6	277.7	276.0
20°	384.8	367.6	364.3	340.2	331.6	304.2	310.3	299.1	293.1	285.4	282.8
22.5°	333.4	325.7	311.1	305.1	302.6	311.1	311.1	301.7	298.3	294.8	294.0
25°	330.0	330.8	348.0	347.1	322.2	326.5	320.5	310.3	310.3	312.0	310.3
27.5°	401.1	379.7	355.7	354.9	344.5	355.7	336.9	322.2	321.4	318.9	317.1
30°	366.8	366.8	372.9	371.1	363.4	357.4	347.1	333.4	328.3	322.2	320.5
32.5°	416.5	419.9	433.6	418.3	399.4	381.4	363.4	343.7	333.4	325.7	324.8
35°	460.2	467.1	505.6	473.9	449.1	410.5	383.1	353.9	338.5	331.6	330.0
37.5°	516.8	522.8	587.1	536.5	497.1	442.2	404.6	366.0	346.3	336.9	335.9
40°	592.2	593.1	662.5	617.0	570.8	477.4	417.4	375.4	356.5	346.3	345.3
42.5°	692.5	687.3	773.0	729.4	630.8	503.1	423.4	378.0	360.0	353.1	352.2
45°	785.9	779.1	849.4	831.4	657.3	519.4	431.1	386.6	366.0	360.0	358.2
47.5°	848.5	858.8	909.3	905.1	673.6	526.2	444.0	396.0	373.7	367.6	366.8
50°	913.6	925.7	976.2	900.8	683.9	531.4	453.4	402.8	377.1	370.2	368.6
52.5°	928.2	931.6	965.9	853.7	661.6	516.0	445.7	394.2	366.8	359.2	356.5
55°	830.5	804.8	917.1	738.8	603.3	470.6	417.4	369.4	342.0	335.9	332.6
57.5°	688.2	648.8	738.0	611.1	515.1	419.1	371.1	332.6	306.8	299.9	296.6
60°	509.9	475.7	537.4	468.0	418.3	344.5	306.0	283.7	263.1	258.8	258.0
62.5°	419.9	403.7	434.5	399.4	360.0	307.7	278.5	259.7	241.7	240.0	240.0
65°	388.2	384.8	402.8	378.0	342.8	296.6	270.0	252.0	234.9	232.3	231.4
67.5°	374.5	375.4	383.9	371.9	341.2	294.8	268.2	249.4	232.3	229.7	228.8
70°	370.2	370.2	370.2	371.9	343.7	294.8	268.2	250.2	231.4	228.0	227.1
72.5°	367.6	367.6	361.7	368.6	341.2	293.1	268.2	249.4	230.6	226.3	225.5
75°	357.4	358.2	350.6	361.7	332.6	289.7	267.4	247.7	228.0	223.7	222.8
77.5°	335.1	336.9	331.6	346.3	317.9	282.8	263.1	244.3	224.5	219.4	218.5
80°	300.8	308.5	306.0	319.7	294.8	269.1	252.0	234.9	215.9	211.6	210.8
82.5°	264.0	273.4	275.1	285.4	265.7	247.7	233.1	219.4	202.2	198.9	197.9
85°	232.3	240.8	244.3	252.9	236.5	224.5	214.3	203.2	189.5	186.0	185.2
86°	220.2	228.8	231.4	240.8	225.5	215.1	207.5	197.1	185.2	180.9	179.9
87.5°	203.2	210.8	215.1	222.8	209.1	201.4	196.3	188.5	177.4	174.0	173.1
90°	179.1	186.8	189.5	193.7	182.6	178.3	176.6	171.4	163.7	160.3	160.3
92.5°	158.6	165.4	168.0	170.5	161.1	157.7	158.6	156.0	150.9	148.2	147.4
95°	139.7	145.7	147.4	150.0	142.3	141.4	145.7	144.8	140.6	138.0	137.2
97.5°	126.0	130.3	132.0	132.9	128.6	130.3	134.5	135.4	132.9	130.3	129.4
100°	116.5	119.2	121.7	123.4	119.2	121.7	126.8	127.7	126.0	124.3	123.4
102.5°	113.1	114.9	119.2	120.8	115.7	116.5	120.8	122.5	120.8	119.2	119.2
105°	115.7	116.5	123.4	126.0	118.3	115.7	117.4	119.2	116.5	115.7	115.7
107.5°	121.7	122.5	132.0	134.5	126.0	119.2	117.4	117.4	115.7	114.0	114.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	129.4	132.0	142.3	147.4	137.2	123.4	117.4	116.5	114.9	112.3	113.1
112.5°	140.6	142.3	154.3	161.1	149.1	127.7	117.4	114.9	112.3	110.6	111.4
115°	156.8	156.0	170.5	176.6	160.3	132.0	118.3	112.3	109.7	108.0	108.0
117.5°	175.7	174.0	188.5	188.5	168.9	135.4	118.3	109.7	106.3	104.5	104.5
120°	188.5	185.2	201.4	194.6	169.7	135.4	117.4	106.3	102.0	100.2	99.4
122.5°	186.0	182.6	201.4	186.0	156.8	125.1	109.7	100.2	95.1	93.4	92.6
125°	162.9	159.4	171.4	156.8	132.0	104.5	92.6	84.8	82.2	80.6	80.6
127.5°	132.0	129.4	132.0	122.5	103.7	84.0	74.6	69.5	67.7	66.9	66.9
130°	96.9	97.7	99.4	92.6	77.9	65.2	57.4	54.0	53.1	52.3	52.3
132.5°	70.3	70.3	72.0	67.7	56.6	48.9	44.6	42.0	42.0	41.1	41.1
135°	47.2	48.0	49.7	47.2	40.3	35.2	32.5	31.7	31.7	30.9	30.9
137.5°	33.5	35.2	36.0	33.5	30.0	26.6	24.0	23.1	24.0	23.1	23.1
140°	25.7	26.6	27.4	25.7	22.3	19.7	18.8	18.0	18.0	18.0	18.0
142.5°	19.7	19.7	20.6	18.8	16.3	14.5	13.7	13.7	13.7	13.7	13.7
145°	12.9	13.7	13.7	12.9	11.2	10.3	9.4	8.6	8.6	8.6	8.6
147.5°	6.9	7.7	8.6	7.7	6.9	6.0	5.1	5.1	4.3	4.3	4.3
150°	3.5	3.5	4.3	4.3	3.5	2.6	1.7	1.7	1.7	0.8	0.8
152.5°	1.7	1.7	2.6	2.6	1.7	0.8	0.0	0.0	0.0	0.0	0.0
155°	1.7	1.7	2.6	2.6	1.7	0.8	0.0	0.0	0.0	0.0	0.0
157.5°	1.7	1.7	1.7	2.6	1.7	0.8	0.0	0.0	0.0	0.0	0.0
160°	1.7	1.7	1.7	2.6	1.7	0.8	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	0.0	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)