

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: P271881

Luminaire Tested: **MPB-AF-D-U-ASYM-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271881
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-7027
Description: BRECKENRIDGE LED POST-TOP LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND ASYMMETRIC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3872.9 lumens
Efficiency: N/A
Efficacy: 66.8 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): 58
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



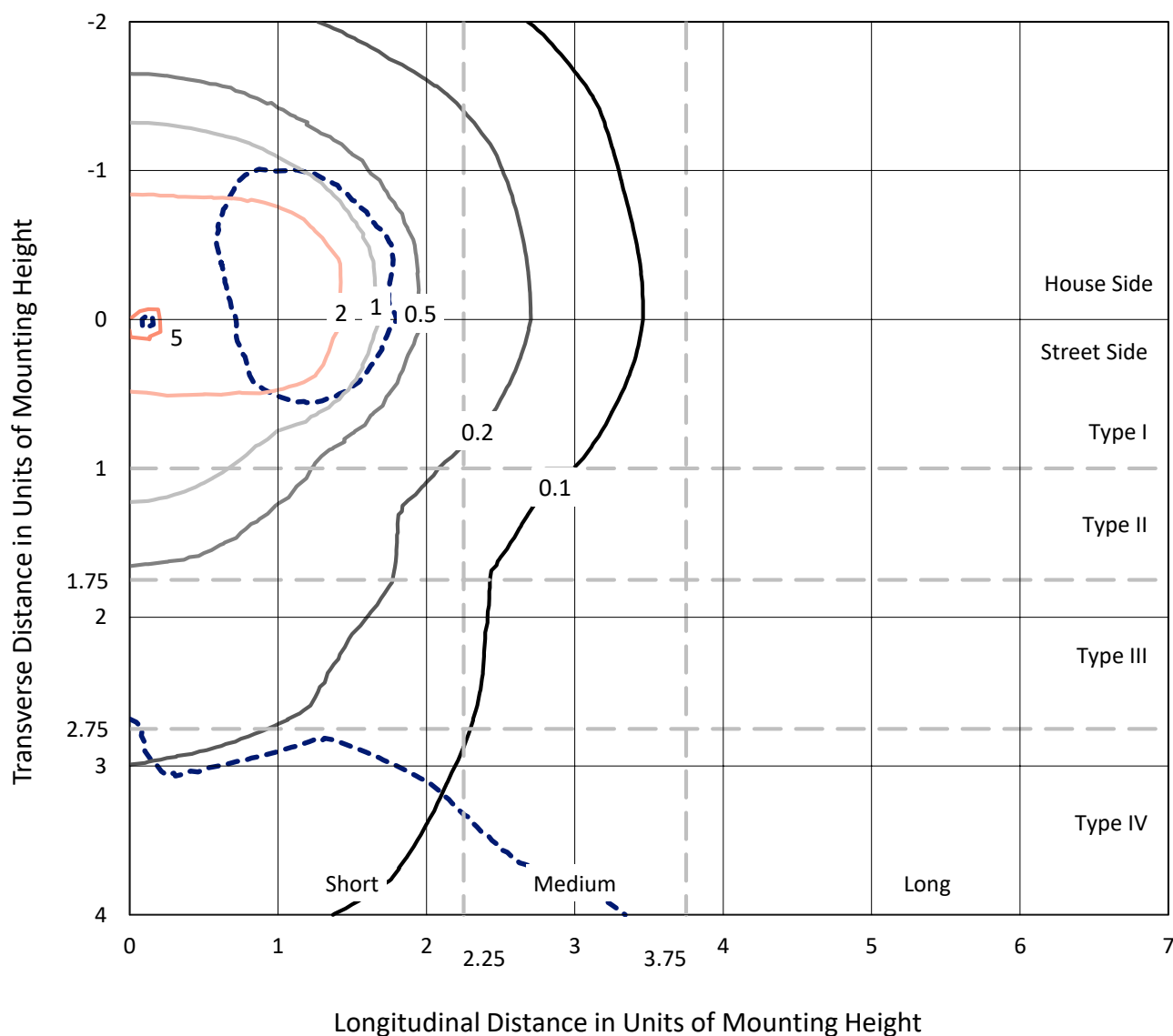
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

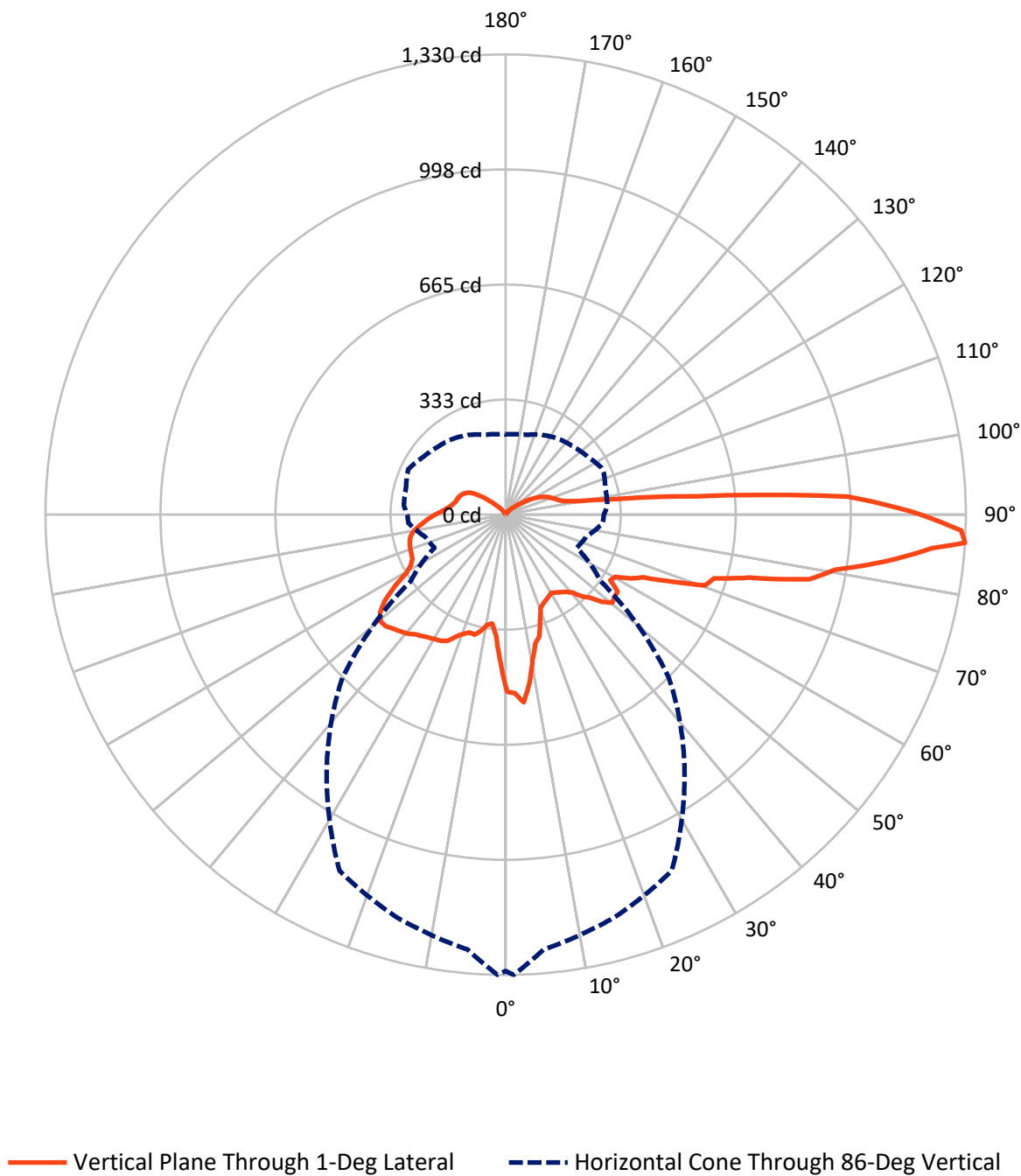


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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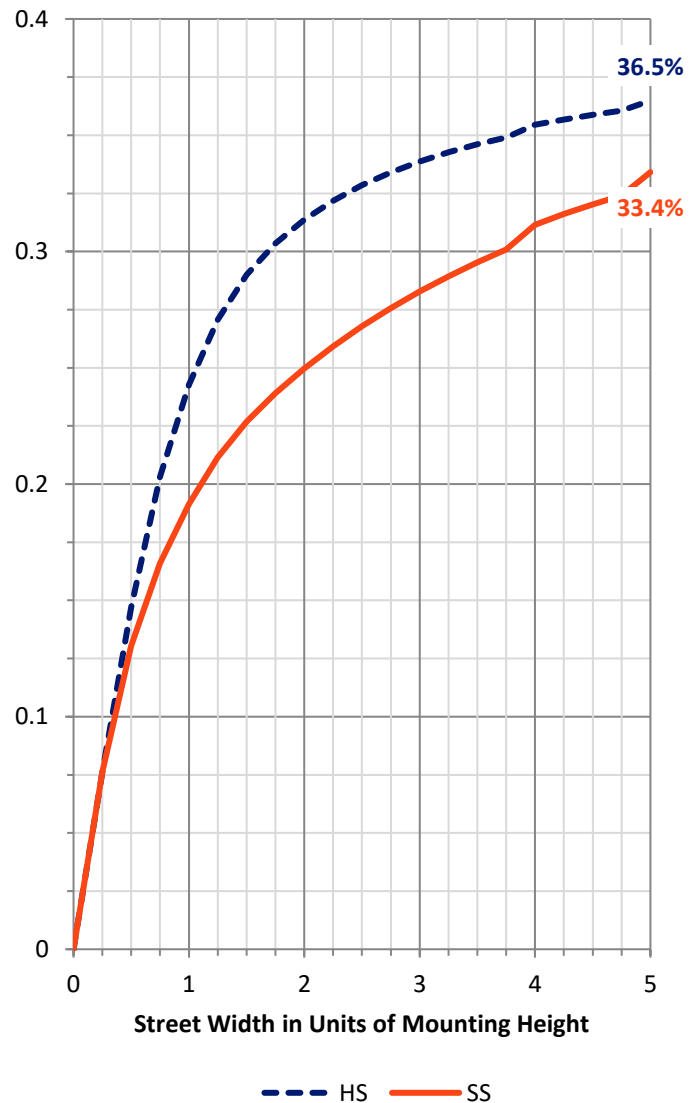
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1497.5	367.0	1864.6
	% Fixture	38.7	9.5	48.1
Street Side	Lumens	1575.2	433.1	2008.3
	% Fixture	40.7	11.2	51.9
Total	Lumens	3072.7	800.2	3872.9
	% Fixture	79.3	20.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	1.3
10°-20°	119.2	3.1
20°-30°	185.0	4.8
30°-40°	296.2	7.6
40°-50°	489.2	12.6
50°-60°	528.3	13.6
60°-70°	404.0	10.4
70°-80°	477.0	12.3
80°-90°	524.9	13.6
90°-100°	318.7	8.2
100°-110°	162.2	4.2
110°-120°	157.8	4.1
120°-130°	115.9	3.0
130°-140°	36.7	0.9
140°-150°	8.1	0.2
150°-160°	0.7	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	3072.7	79.3
0°-180°	3872.9	100.0

Coefficient of Utilization



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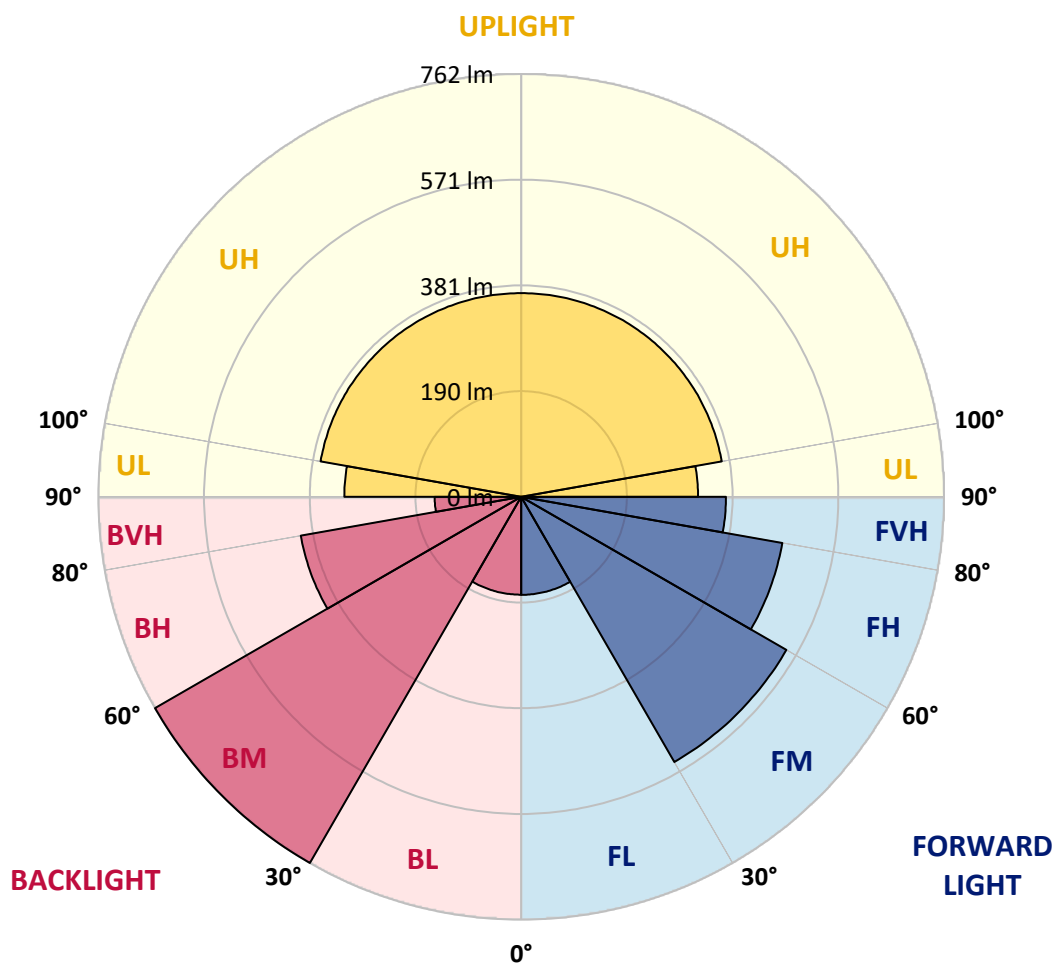
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	176.6	4.6			
FM	(30°-60°)	551.8	14.2			
FH	(60°-80°)	477.8	12.3			G0/660
FVH	(80°-90°)	368.9	9.5			G3/500
BL	(0°-30°)	176.4	4.6	B1/500		
BM	(30°-60°)	761.9	19.7	B1/1000		
BH	(60°-80°)	403.2	10.4	B1/500		G1/500
BVH	(80°-90°)	155.9	4.0			G2/225
UL	(90°-100°)	318.7	8.2		U3/500	
UH	(100°-180°)	367.0	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°	511.6	511.6	511.6	511.6	511.6	511.6	511.6	511.6	511.6	511.6	511.6
2.5°	518.1	517.1	514.9	518.1	521.5	546.9	563.5	561.2	541.4	532.5	525.9
5°	552.4	544.7	539.2	548.0	548.0	594.4	617.6	583.4	576.7	593.3	575.6
7.5°	495.0	492.7	490.6	500.4	519.3	601.1	614.4	692.8	715.9	688.3	685.0
10°	423.1	426.4	423.1	476.2	550.2	606.5	532.5	552.4	588.9	601.1	542.5
12.5°	377.8	382.3	386.7	420.9	440.8	423.1	457.3	470.6	493.9	490.6	466.2
15°	360.2	364.6	362.4	346.9	369.0	401.0	428.7	455.2	481.7	456.2	456.2
17.5°	332.6	322.6	320.3	305.0	343.6	387.8	438.6	475.0	468.5	507.1	541.4
20°	290.6	287.3	287.3	295.0	328.2	382.3	473.9	555.7	610.9	567.9	516.0
22.5°	279.6	278.5	282.9	296.1	328.2	355.8	396.6	431.9	437.6	433.2	431.9
25°	272.8	272.8	277.3	292.8	305.0	325.9	375.6	406.6	408.8	430.8	430.8
27.5°	269.6	266.3	266.3	281.7	298.2	330.4	356.9	385.6	399.9	444.1	517.1
30°	262.9	261.9	262.9	278.5	303.9	324.7	359.1	383.4	404.3	448.5	469.5
32.5°	266.3	268.4	265.2	276.2	296.1	324.7	364.6	403.2	418.7	496.0	532.5
35°	275.2	275.2	270.7	276.2	291.7	320.3	369.0	427.5	456.2	556.8	610.9
37.5°	279.6	282.9	281.7	290.6	307.1	330.4	371.2	448.5	507.1	599.9	700.5
40°	296.1	296.1	297.2	312.7	324.7	340.3	372.3	459.7	573.4	651.8	813.1
42.5°	319.3	322.6	318.2	317.1	327.1	348.0	372.3	455.2	655.1	730.3	944.6
45°	338.1	342.5	339.2	346.9	345.8	362.4	372.3	445.2	679.5	816.5	1060.6
47.5°	381.2	376.7	381.2	383.4	373.4	380.1	385.6	443.0	674.0	918.1	1124.7
50°	398.8	399.9	396.6	390.0	387.8	381.2	386.7	427.5	655.1	986.6	1165.6
52.5°	397.7	394.4	398.8	388.9	381.2	378.9	370.1	401.0	618.8	953.6	1067.3
55°	396.6	392.2	384.5	371.2	358.0	355.8	351.3	372.3	533.6	798.9	936.9
57.5°	356.9	356.9	352.5	352.5	341.4	330.4	330.4	323.7	446.4	647.4	805.4
60°	363.5	364.6	360.2	366.8	359.1	328.2	332.6	289.4	373.4	489.5	588.9
62.5°	409.9	405.5	395.5	395.5	385.6	334.8	311.5	279.6	337.0	417.6	491.6
65°	440.8	437.6	438.6	446.4	435.3	372.3	346.9	282.9	323.7	399.9	465.1
67.5°	512.7	514.9	518.1	539.2	500.4	422.0	386.7	290.6	318.2	396.6	458.6
70°	637.4	612.0	593.3	546.9	531.3	436.4	396.6	298.2	313.8	396.6	454.1
72.5°	622.1	629.7	619.8	637.4	633.0	509.2	407.7	310.5	310.5	390.0	452.9
75°	736.9	727.0	749.1	818.6	743.5	585.5	473.9	323.7	301.7	377.8	444.1
77.5°	900.4	897.0	871.7	851.9	807.7	619.8	550.2	360.2	280.6	352.5	418.7
80°	976.6	965.6	983.3	943.5	922.5	713.7	542.5	344.7	256.4	320.3	380.1
82.5°	1112.6	1107.0	1118.1	1224.1	1051.7	817.5	596.7	352.5	239.8	286.1	337.0
85°	1230.8	1236.2	1272.8	1232.9	1142.4	892.6	630.9	367.9	231.0	254.1	297.2
86°	1319.1	1330.2	1261.7	1206.4	1135.7	901.4	667.4	334.8	226.6	241.9	281.7
87.5°	1301.5	1318.0	1293.8	1270.6	1185.4	930.3	681.6	298.2	222.2	224.3	259.6
90°	1205.3	1169.0	1208.7	1245.1	1091.6	839.6	613.1	308.3	202.2	201.1	228.7
92.5°	995.4	991.0	966.8	959.0	865.1	677.2	514.9	257.5	185.6	180.1	203.3
95°	590.0	554.6	535.7	630.9	573.4	521.5	378.9	239.8	166.8	161.2	179.0
97.5°	330.4	319.3	307.1	350.2	364.6	327.1	245.2	175.7	148.0	148.0	161.2
100°	223.2	214.3	211.0	212.1	229.8	212.1	176.8	143.5	133.7	139.1	149.2
102.5°	173.5	172.4	169.0	171.3	174.6	163.5	148.0	135.9	131.5	139.1	144.8
105°	158.0	158.0	154.7	153.6	156.8	147.0	139.1	131.5	133.7	144.8	148.0
107.5°	148.0	149.2	144.8	144.8	144.8	139.1	132.6	129.3	138.1	152.4	155.8



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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	139.1	139.1	135.9	135.9	137.0	131.5	127.1	127.1	142.5	161.2	165.7
112.5°	130.3	131.5	128.2	128.2	128.2	123.8	121.5	125.9	148.0	172.4	179.0
115°	119.4	119.4	117.0	119.4	119.4	117.0	117.0	125.9	160.2	188.9	198.9
117.5°	106.1	106.1	104.9	108.2	109.3	110.5	113.7	127.1	173.5	207.7	223.2
120°	91.6	91.6	91.6	96.1	98.4	101.7	108.2	124.9	181.2	222.2	238.6
122.5°	76.3	76.3	76.3	79.5	82.8	89.5	98.4	116.0	173.5	214.3	233.1
125°	60.7	60.7	61.8	64.0	68.5	75.1	84.0	100.5	149.2	184.5	204.4
127.5°	48.6	48.6	48.6	50.8	54.2	60.7	68.5	82.8	117.0	147.0	165.7
130°	38.6	38.6	38.6	39.7	42.0	46.4	54.2	66.3	89.5	110.5	124.9
132.5°	30.9	29.8	30.9	30.9	33.1	36.4	40.9	48.6	63.0	78.4	89.5
135°	25.4	25.4	25.4	25.4	26.5	27.6	32.0	35.3	43.1	53.0	58.6
137.5°	19.9	19.9	19.9	19.9	21.0	21.0	23.2	26.5	29.8	36.4	42.0
140°	15.5	15.5	15.5	15.5	15.5	16.6	17.7	18.8	22.1	27.6	32.0
142.5°	12.1	12.1	12.1	12.1	12.1	12.1	13.3	14.4	16.6	19.9	23.2
145°	7.7	8.8	7.7	7.7	7.7	7.7	8.8	8.8	11.0	13.3	15.5
147.5°	4.4	5.5	4.4	4.4	4.4	4.4	4.4	5.5	5.5	7.7	8.8
150°	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2	2.2	3.3	4.4
152.5°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2
155°	0.0	0.0	0.0	1.1	1.1	1.1	0.0	1.1	1.1	2.2	2.2
157.5°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2
160°	0.0	0.0	0.0	1.1	1.1	1.1	0.0	1.1	1.1	2.2	2.2
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°	511.6	511.6	511.6	511.6	511.6	511.6	511.6	511.6	511.6	511.6	511.6
2.5°	523.7	523.7	526.9	526.9	523.7	510.5	490.6	470.6	447.4	430.8	426.4
5°	563.5	545.8	526.9	496.0	469.5	464.1	424.3	387.8	366.8	351.3	349.1
7.5°	685.0	662.9	586.6	565.7	530.3	486.2	374.5	338.1	323.7	318.2	317.1
10°	514.9	486.2	440.8	424.3	417.6	393.3	356.9	334.8	327.1	324.7	322.6
12.5°	450.8	436.4	416.5	402.1	392.2	372.3	351.3	338.1	335.9	342.5	343.6
15°	449.6	455.2	445.2	411.0	383.4	366.8	354.7	352.5	353.6	359.1	358.0
17.5°	555.7	533.6	497.2	445.2	405.5	406.6	404.3	371.2	366.8	358.0	355.8
20°	496.0	473.9	469.5	438.6	427.5	392.2	399.9	385.6	377.8	367.9	364.6
22.5°	429.7	419.9	401.0	393.3	390.0	401.0	401.0	388.9	384.5	380.1	378.9
25°	425.3	426.4	448.5	447.4	415.5	420.9	413.2	399.9	399.9	402.1	399.9
27.5°	517.1	489.5	458.6	457.3	444.1	458.6	434.2	415.5	414.3	411.0	408.8
30°	472.9	472.9	480.6	478.3	468.5	460.7	447.4	429.7	423.1	415.5	413.2
32.5°	537.0	541.4	559.0	539.2	514.9	491.6	468.5	443.0	429.7	419.9	418.7
35°	593.3	602.1	651.8	610.9	579.0	529.2	493.9	456.2	436.4	427.5	425.3
37.5°	666.3	674.0	756.8	691.7	640.9	570.1	521.5	471.8	446.4	434.2	433.2
40°	763.4	764.5	854.0	795.4	735.8	615.4	538.1	483.8	459.7	446.4	445.2
42.5°	892.6	886.1	996.6	940.2	813.1	648.6	545.8	487.2	464.1	455.2	454.1
45°	1013.1	1004.2	1094.9	1071.7	847.4	669.6	555.7	498.3	471.8	464.1	461.8
47.5°	1093.8	1107.0	1172.2	1166.7	868.4	678.4	572.3	510.5	481.7	473.9	472.9
50°	1177.8	1193.2	1258.3	1161.1	881.7	685.0	584.4	519.3	486.2	477.3	475.0
52.5°	1196.5	1200.9	1245.1	1100.4	852.9	665.1	574.5	508.2	472.9	463.0	459.7
55°	1070.6	1037.5	1182.2	952.3	777.8	606.5	538.1	476.2	440.8	433.2	428.7
57.5°	887.2	836.3	951.2	787.7	663.9	540.3	478.3	428.7	395.5	386.7	382.3
60°	657.4	613.1	692.8	603.2	539.2	444.1	394.4	365.7	339.2	333.7	332.6
62.5°	541.4	520.4	560.1	514.9	464.1	396.6	359.1	334.8	311.5	309.4	309.4
65°	500.4	496.0	519.3	487.2	442.0	382.3	348.0	324.7	302.7	299.5	298.2
67.5°	482.7	483.8	495.0	479.4	439.7	380.1	345.8	321.5	299.5	296.1	295.0
70°	477.3	477.3	477.3	479.4	443.0	380.1	345.8	322.6	298.2	293.8	292.8
72.5°	473.9	473.9	466.2	475.0	439.7	377.8	345.8	321.5	297.2	291.7	290.6
75°	460.7	461.8	451.8	466.2	428.7	373.4	344.7	319.3	293.8	288.4	287.3
77.5°	431.9	434.2	427.5	446.4	409.9	364.6	339.2	314.9	289.4	282.9	281.7
80°	387.8	397.7	394.4	412.1	380.1	346.9	324.7	302.7	278.5	272.8	271.7
82.5°	340.3	352.5	354.7	367.9	342.5	319.3	300.6	282.9	260.8	256.4	255.2
85°	299.5	310.5	314.9	325.9	305.0	289.4	276.2	261.9	244.2	239.8	238.6
86°	284.0	295.0	298.2	310.5	290.6	277.3	267.3	254.1	238.6	233.1	232.0
87.5°	261.9	271.7	277.3	287.3	269.6	259.6	253.1	243.0	228.7	224.3	223.2
90°	231.0	240.8	244.2	249.7	235.4	229.8	227.6	220.9	211.0	206.6	206.6
92.5°	204.4	213.3	216.5	219.8	207.7	203.3	204.4	201.1	194.4	191.1	190.0
95°	180.1	187.8	190.0	193.3	183.4	182.3	187.8	186.7	181.2	177.9	176.8
97.5°	162.4	167.9	170.2	171.3	165.7	167.9	173.5	174.6	171.3	167.9	166.8
100°	150.3	153.6	156.8	159.1	153.6	156.8	163.5	164.6	162.4	160.2	159.1
102.5°	145.9	148.0	153.6	155.8	149.2	150.3	155.8	158.0	155.8	153.6	153.6
105°	149.2	150.3	159.1	162.4	152.4	149.2	151.4	153.6	150.3	149.2	149.2
107.5°	156.8	158.0	170.2	173.5	162.4	153.6	151.4	151.4	149.2	147.0	147.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	166.8	170.2	183.4	190.0	176.8	159.1	151.4	150.3	148.0	144.8	145.9
112.5°	181.2	183.4	198.9	207.7	192.2	164.6	151.4	148.0	144.8	142.5	143.5
115°	202.2	201.1	219.8	227.6	206.6	170.2	152.4	144.8	141.4	139.1	139.1
117.5°	226.6	224.3	243.0	243.0	217.7	174.6	152.4	141.4	137.0	134.7	134.7
120°	243.0	238.6	259.6	250.8	218.7	174.6	151.4	137.0	131.5	129.3	128.2
122.5°	239.8	235.4	259.6	239.8	202.2	161.2	141.4	129.3	122.6	120.5	119.4
125°	209.9	205.5	220.9	202.2	170.2	134.7	119.4	109.3	106.1	103.8	103.8
127.5°	170.2	166.8	170.2	158.0	133.7	108.2	96.1	89.5	87.2	86.1	86.1
130°	124.9	125.9	128.2	119.4	100.5	84.0	74.0	69.6	68.5	67.5	67.5
132.5°	90.5	90.5	92.9	87.2	72.9	63.0	57.4	54.2	54.2	53.0	53.0
135°	60.7	61.8	64.0	60.7	51.9	45.4	42.0	40.9	40.9	39.7	39.7
137.5°	43.1	45.4	46.4	43.1	38.6	34.2	30.9	29.8	30.9	29.8	29.8
140°	33.1	34.2	35.3	33.1	28.7	25.4	24.3	23.2	23.2	23.2	23.2
142.5°	25.4	25.4	26.5	24.3	21.0	18.8	17.7	17.7	17.7	17.7	17.7
145°	16.6	17.7	17.7	16.6	14.4	13.3	12.1	11.0	11.0	11.0	11.0
147.5°	8.8	9.9	11.0	9.9	8.8	7.7	6.6	6.6	5.5	5.5	5.5
150°	4.4	4.4	5.5	5.5	4.4	3.3	2.2	2.2	2.2	1.1	1.1
152.5°	2.2	2.2	3.3	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0
155°	2.2	2.2	3.3	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0
157.5°	2.2	2.2	2.2	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0
160°	2.2	2.2	2.2	3.3	2.2	1.1	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)