

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: P212578

Luminaire Tested: **MPB-AF-D-U-ASYM-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P212578
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-800
Description: BRECKENRIDGE LED POST-TOP LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND ASYMMETRIC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3684.7 lumens
Efficiency: N/A
Efficacy: 83.7 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): 44
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



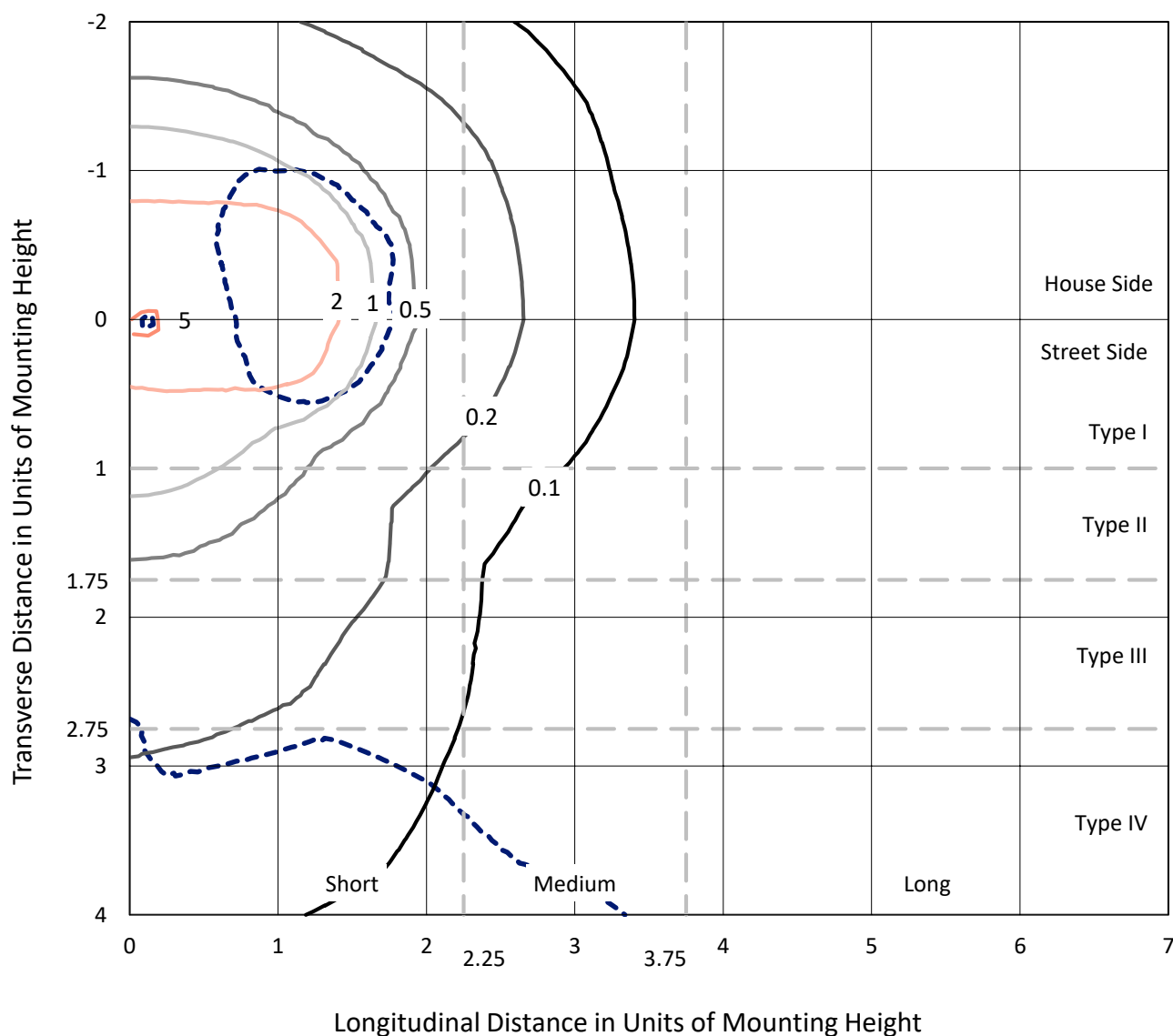
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

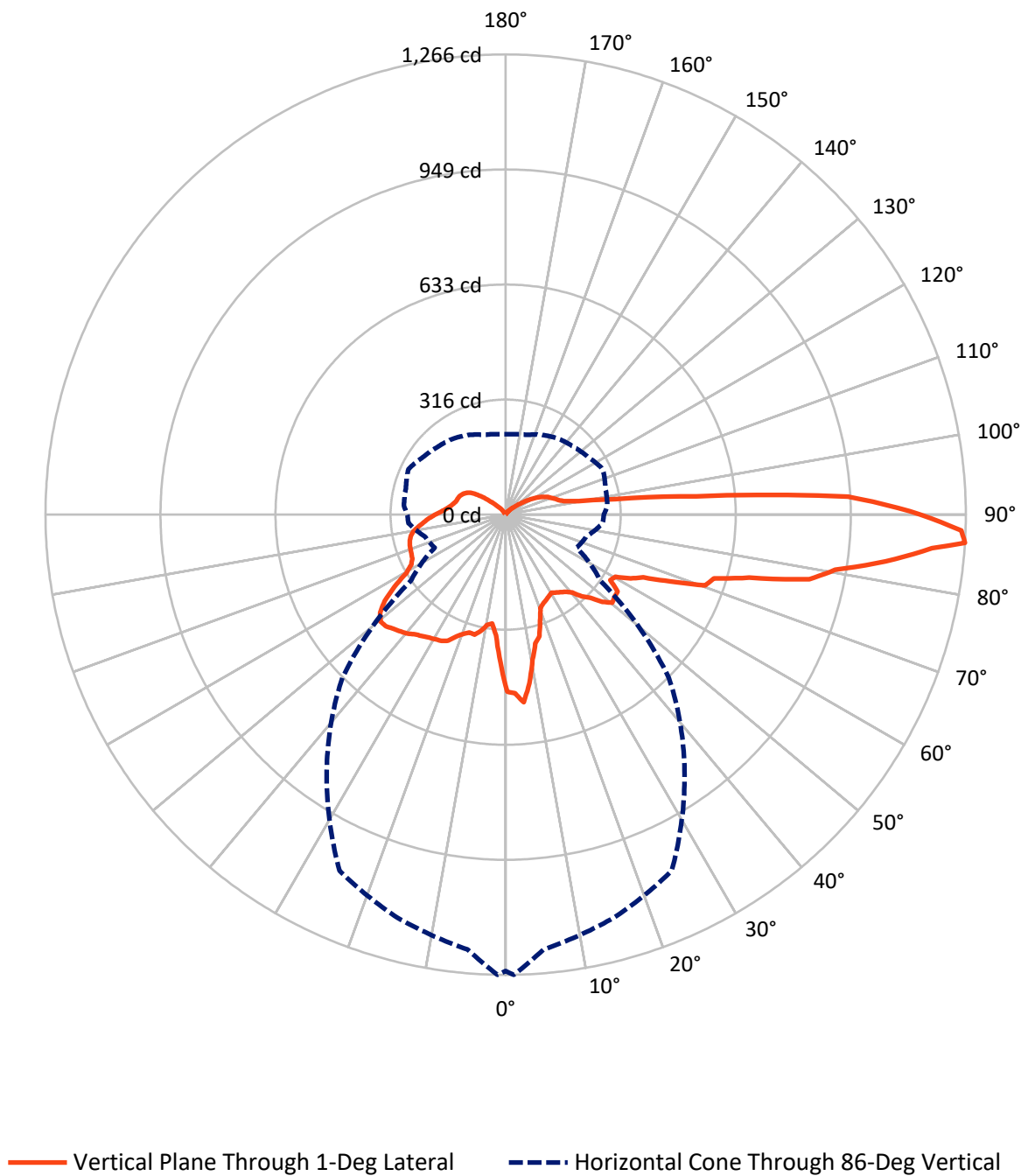


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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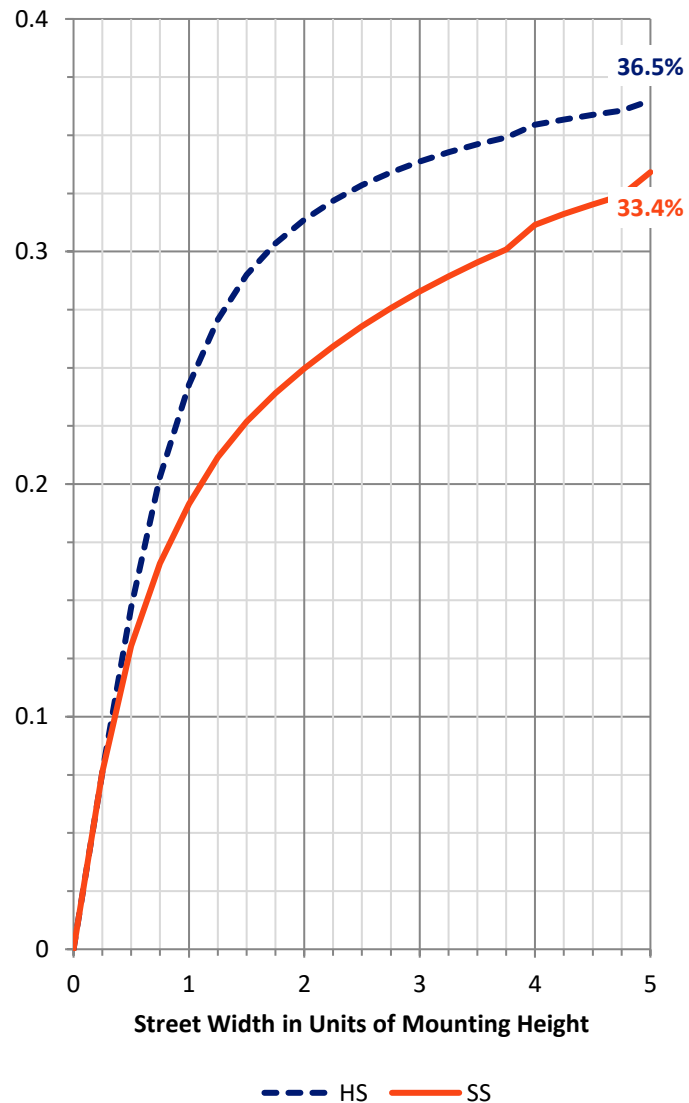
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1424.7	349.2	1774.0
	% Fixture	38.7	9.5	48.1
Street Side	Lumens	1498.6	412.1	1910.7
	% Fixture	40.7	11.2	51.9
Total	Lumens	2923.4	761.3	3684.7
	% Fixture	79.3	20.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.5	1.3
10°-20°	113.4	3.1
20°-30°	176.0	4.8
30°-40°	281.8	7.6
40°-50°	465.4	12.6
50°-60°	502.7	13.6
60°-70°	384.4	10.4
70°-80°	453.8	12.3
80°-90°	499.4	13.6
90°-100°	303.2	8.2
100°-110°	154.3	4.2
110°-120°	150.1	4.1
120°-130°	110.3	3.0
130°-140°	35.0	0.9
140°-150°	7.7	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2923.4	79.3
0°-180°	3684.7	100.0

Coefficient of Utilization



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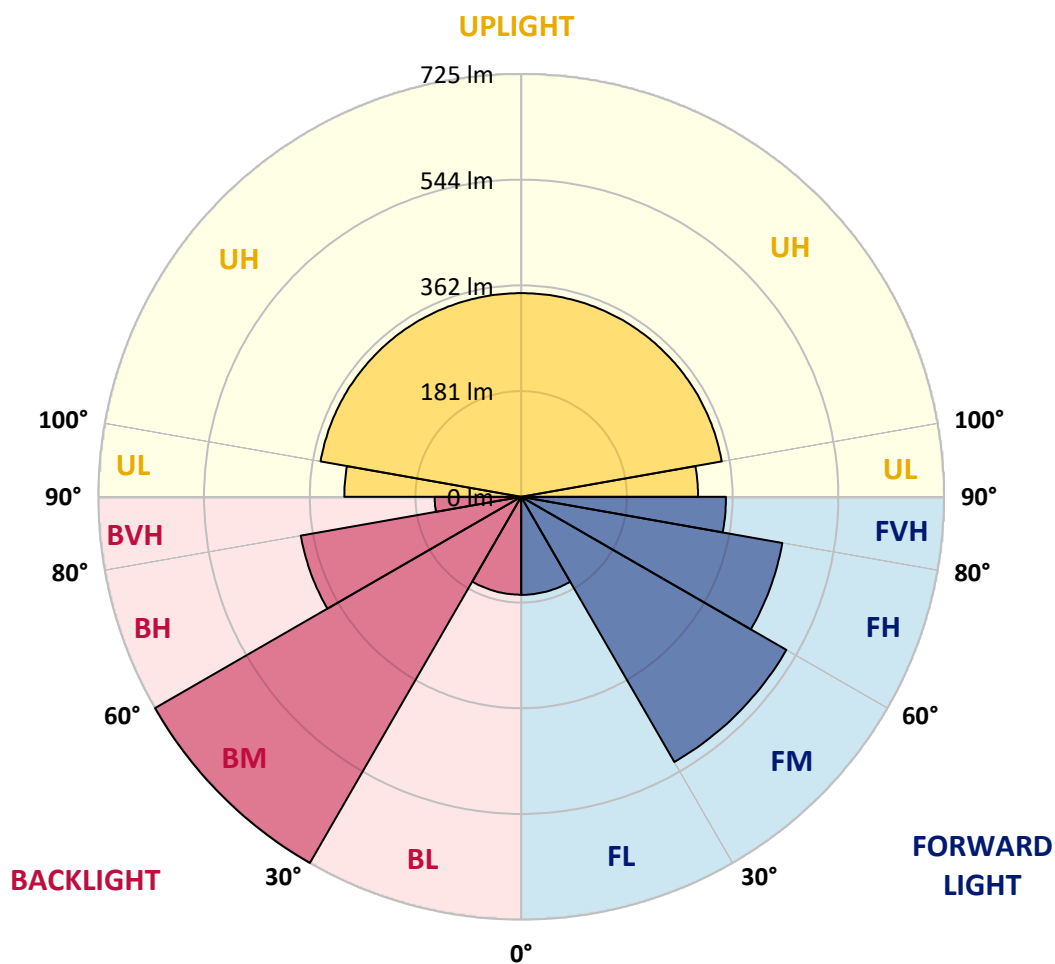
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	168.1	4.6			
FM	(30°-60°)	525.0	14.2			
FH	(60°-80°)	454.6	12.3			G0/660
FVH	(80°-90°)	351.0	9.5			G3/500
BL	(0°-30°)	167.9	4.6	B1/500		
BM	(30°-60°)	724.9	19.7	B1/1000		
BH	(60°-80°)	383.6	10.4	B1/500		G1/500
BVH	(80°-90°)	148.3	4.0			G2/225
UL	(90°-100°)	303.2	8.2		U3/500	
UH	(100°-180°)	349.2	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°	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6
2.5°	493.0	491.9	489.8	493.0	496.1	520.3	536.0	534.0	515.1	506.7	500.3
5°	525.6	518.2	512.9	521.4	521.4	565.5	587.6	555.0	548.7	564.5	547.6
7.5°	470.9	468.8	466.7	476.2	494.0	571.8	584.4	659.1	681.1	654.9	651.7
10°	402.5	405.7	402.5	453.1	523.4	577.0	506.7	525.6	560.3	571.8	516.1
12.5°	359.5	363.7	367.9	400.5	419.4	402.5	435.2	447.7	469.8	466.7	443.6
15°	342.7	346.9	344.7	330.0	351.1	381.6	407.9	433.0	458.3	434.1	434.1
17.5°	316.4	306.9	304.8	290.1	326.9	369.0	417.3	451.9	445.7	482.4	515.1
20°	276.4	273.3	273.3	280.7	312.2	363.7	450.9	528.8	581.2	540.3	490.9
22.5°	266.0	264.8	269.0	281.7	312.2	338.5	377.4	411.0	416.2	412.0	411.0
25°	259.6	259.6	263.8	278.5	290.1	310.1	357.4	386.8	388.9	409.9	409.9
27.5°	256.5	253.3	253.3	268.0	283.8	314.3	339.5	366.8	380.5	422.6	491.9
30°	250.2	249.1	250.2	264.8	289.1	309.0	341.6	364.8	384.7	426.8	446.7
32.5°	253.3	255.4	252.3	262.8	281.7	309.0	346.9	383.7	398.3	472.0	506.7
35°	261.8	261.8	257.5	262.8	277.5	304.8	351.1	406.8	434.1	529.8	581.2
37.5°	266.0	269.0	268.0	276.4	292.3	314.3	353.2	426.8	482.4	570.8	666.5
40°	281.7	281.7	282.7	297.5	309.0	323.8	354.2	437.3	545.5	620.1	773.7
42.5°	303.8	306.9	302.7	301.7	311.2	331.1	354.2	433.0	623.3	694.8	898.7
45°	321.6	325.8	322.7	330.0	329.0	344.7	354.2	423.6	646.4	776.8	1009.0
47.5°	362.6	358.4	362.6	364.8	355.3	361.6	366.8	421.5	641.2	873.5	1070.0
50°	379.4	380.5	377.4	371.0	369.0	362.6	367.9	406.8	623.3	938.7	1109.0
52.5°	378.4	375.2	379.4	370.0	362.6	360.5	352.1	381.6	588.6	907.2	1015.4
55°	377.4	373.2	365.8	353.2	340.5	338.5	334.3	354.2	507.7	760.0	891.4
57.5°	339.5	339.5	335.3	335.3	324.8	314.3	314.3	308.0	424.6	615.9	766.3
60°	345.9	346.9	342.7	348.9	341.6	312.2	316.4	275.4	355.3	465.6	560.3
62.5°	389.9	385.8	376.3	376.3	366.8	318.4	296.5	266.0	320.6	397.3	467.8
65°	419.4	416.2	417.3	424.6	414.1	354.2	330.0	269.0	308.0	380.5	442.5
67.5°	487.7	489.8	493.0	512.9	476.2	401.5	367.9	276.4	302.7	377.4	436.2
70°	606.5	582.4	564.5	520.3	505.5	415.2	377.4	283.8	298.5	377.4	432.0
72.5°	591.8	599.1	589.6	606.5	602.3	484.6	387.9	295.3	295.3	371.0	431.0
75°	701.1	691.6	712.7	778.9	707.4	557.1	450.9	308.0	286.9	359.5	422.6
77.5°	856.6	853.6	829.3	810.4	768.3	589.6	523.4	342.7	267.0	335.3	398.3
80°	929.1	918.7	935.5	897.6	877.7	679.0	516.1	328.0	243.9	304.8	361.6
82.5°	1058.4	1053.2	1063.8	1164.6	1000.7	777.9	567.6	335.3	228.1	272.2	320.6
85°	1171.0	1176.2	1210.9	1173.0	1086.9	849.4	600.2	350.1	219.7	241.7	282.7
86°	1255.1	1265.6	1200.3	1147.9	1080.5	857.7	634.8	318.4	215.4	230.2	268.0
87.5°	1238.2	1254.0	1230.8	1208.8	1127.8	885.1	648.6	283.8	211.2	213.4	247.0
90°	1146.7	1112.0	1149.9	1184.6	1038.5	798.8	583.4	293.3	192.3	191.3	217.6
92.5°	947.0	942.9	919.7	912.4	823.1	644.4	489.8	244.9	176.6	171.3	193.4
95°	561.3	527.6	509.8	600.2	545.5	496.1	360.5	228.1	158.8	153.4	170.3
97.5°	314.3	303.8	292.3	333.2	346.9	311.2	233.3	167.2	140.9	140.9	153.4
100°	212.4	203.9	200.8	201.8	218.6	201.8	168.2	136.7	127.2	132.5	141.9
102.5°	165.0	164.0	160.8	163.0	166.1	155.6	140.9	129.3	125.1	132.5	137.7
105°	150.3	150.3	147.2	146.1	149.2	139.8	132.5	125.1	127.2	137.7	140.9
107.5°	140.9	141.9	137.7	137.7	137.7	132.5	126.1	123.0	131.3	145.1	148.2



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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	132.5	132.5	129.3	129.3	130.3	125.1	120.9	120.9	135.6	153.4	157.6
112.5°	124.0	125.1	121.9	121.9	121.9	117.7	115.6	119.8	140.9	164.0	170.3
115°	113.5	113.5	111.4	113.5	113.5	111.4	111.4	119.8	152.4	179.7	189.2
117.5°	100.9	100.9	99.8	103.0	104.0	105.2	108.2	120.9	165.0	197.6	212.4
120°	87.3	87.3	87.3	91.5	93.6	96.7	103.0	118.8	172.4	211.2	227.0
122.5°	72.5	72.5	72.5	75.7	78.9	85.1	93.6	110.4	165.0	203.9	221.8
125°	57.8	57.8	58.8	61.0	65.2	71.5	79.9	95.6	141.9	175.5	194.5
127.5°	46.2	46.2	46.2	48.4	51.5	57.8	65.2	78.9	111.4	139.8	157.6
130°	36.8	36.8	36.8	37.8	39.9	44.2	51.5	63.1	85.1	105.2	118.8
132.5°	29.5	28.3	29.5	29.5	31.5	34.7	38.9	46.2	59.9	74.7	85.1
135°	24.1	24.1	24.1	24.1	25.3	26.3	30.5	33.7	41.0	50.4	55.8
137.5°	18.9	18.9	18.9	18.9	19.9	19.9	22.1	25.3	28.3	34.7	39.9
140°	14.7	14.7	14.7	14.7	14.7	15.8	16.8	17.9	21.1	26.3	30.5
142.5°	11.6	11.6	11.6	11.6	11.6	11.6	12.6	13.7	15.8	18.9	22.1
145°	7.4	8.4	7.4	7.4	7.4	7.4	8.4	8.4	10.5	12.6	14.7
147.5°	4.2	5.2	4.2	4.2	4.2	4.2	4.2	5.2	5.2	7.4	8.4
150°	2.1	2.1	2.1	2.1	2.1	1.0	2.1	2.1	2.1	3.2	4.2
152.5°	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1
155°	0.0	0.0	0.0	1.0	1.0	1.0	0.0	1.0	1.0	2.1	2.1
157.5°	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1
160°	0.0	0.0	0.0	1.0	1.0	1.0	0.0	1.0	1.0	2.1	2.1
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°	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6
2.5°	498.3	498.3	501.3	501.3	498.3	485.6	466.7	447.7	425.8	409.9	405.7
5°	536.0	519.2	501.3	472.0	446.7	441.5	403.7	369.0	348.9	334.3	332.2
7.5°	651.7	630.6	558.1	538.2	504.5	462.5	356.3	321.6	308.0	302.7	301.7
10°	489.8	462.5	419.4	403.7	397.3	374.2	339.5	318.4	311.2	309.0	306.9
12.5°	428.8	415.2	396.3	382.6	373.2	354.2	334.3	321.6	319.6	325.8	326.9
15°	427.8	433.0	423.6	391.0	364.8	348.9	337.4	335.3	336.3	341.6	340.5
17.5°	528.8	507.7	473.0	423.6	385.8	386.8	384.7	353.2	348.9	340.5	338.5
20°	472.0	450.9	446.7	417.3	406.8	373.2	380.5	366.8	359.5	350.1	346.9
22.5°	408.9	399.5	381.6	374.2	371.0	381.6	381.6	370.0	365.8	361.6	360.5
25°	404.7	405.7	426.8	425.8	395.3	400.5	393.1	380.5	380.5	382.6	380.5
27.5°	491.9	465.6	436.2	435.2	422.6	436.2	413.1	395.3	394.1	391.0	388.9
30°	449.9	449.9	457.3	455.1	445.7	438.3	425.8	408.9	402.5	395.3	393.1
32.5°	510.9	515.1	531.8	512.9	489.8	467.8	445.7	421.5	408.9	399.5	398.3
35°	564.5	572.9	620.1	581.2	550.8	503.5	469.8	434.1	415.2	406.8	404.7
37.5°	633.8	641.2	720.1	658.0	609.7	542.4	496.1	448.9	424.6	413.1	412.0
40°	726.3	727.4	812.5	756.8	700.0	585.4	511.9	460.4	437.3	424.6	423.6
42.5°	849.4	843.0	948.1	894.5	773.7	617.0	519.2	463.5	441.5	433.0	432.0
45°	963.9	955.4	1041.7	1019.6	806.2	637.0	528.8	474.0	448.9	441.5	439.4
47.5°	1040.6	1053.2	1115.2	1110.0	826.1	645.4	544.5	485.6	458.3	450.9	449.9
50°	1120.5	1135.2	1197.3	1104.7	838.8	651.7	556.1	494.0	462.5	454.1	451.9
52.5°	1138.3	1142.5	1184.6	1046.9	811.5	632.8	546.6	483.5	449.9	440.4	437.3
55°	1018.6	987.0	1124.7	906.0	740.0	577.0	511.9	453.1	419.4	412.0	407.9
57.5°	844.0	795.7	905.0	749.4	631.7	514.0	455.1	407.9	376.3	367.9	363.7
60°	625.4	583.4	659.1	573.9	512.9	422.6	375.2	347.9	322.7	317.4	316.4
62.5°	515.1	495.1	533.0	489.8	441.5	377.4	341.6	318.4	296.5	294.3	294.3
65°	476.2	472.0	494.0	463.5	420.4	363.7	331.1	309.0	288.0	284.9	283.8
67.5°	459.3	460.4	470.9	456.2	418.4	361.6	329.0	305.9	284.9	281.7	280.7
70°	454.1	454.1	454.1	456.2	421.5	361.6	329.0	306.9	283.8	279.6	278.5
72.5°	450.9	450.9	443.6	451.9	418.4	359.5	329.0	305.9	282.7	277.5	276.4
75°	438.3	439.4	429.9	443.6	407.9	355.3	328.0	303.8	279.6	274.4	273.3
77.5°	411.0	413.1	406.8	424.6	389.9	346.9	322.7	299.5	275.4	269.0	268.0
80°	369.0	378.4	375.2	392.1	361.6	330.0	309.0	288.0	264.8	259.6	258.6
82.5°	323.8	335.3	337.4	350.1	325.8	303.8	285.9	269.0	248.1	243.9	242.8
85°	284.9	295.3	299.5	310.1	290.1	275.4	262.8	249.1	232.3	228.1	227.0
86°	270.2	280.7	283.8	295.3	276.4	263.8	254.4	241.7	227.0	221.8	220.8
87.5°	249.1	258.6	263.8	273.3	256.5	247.0	240.7	231.3	217.6	213.4	212.4
90°	219.7	229.1	232.3	237.5	223.9	218.6	216.6	210.2	200.8	196.5	196.5
92.5°	194.5	202.9	206.0	209.2	197.6	193.4	194.5	191.3	184.9	181.9	180.8
95°	171.3	178.7	180.8	183.9	174.5	173.4	178.7	177.7	172.4	169.2	168.2
97.5°	154.5	159.8	161.8	163.0	157.6	159.8	165.0	166.1	163.0	159.8	158.8
100°	142.9	146.1	149.2	151.4	146.1	149.2	155.6	156.6	154.5	152.4	151.4
102.5°	138.7	140.9	146.1	148.2	141.9	142.9	148.2	150.3	148.2	146.1	146.1
105°	141.9	142.9	151.4	154.5	145.1	141.9	144.0	146.1	142.9	141.9	141.9
107.5°	149.2	150.3	161.8	165.0	154.5	146.1	144.0	144.0	141.9	139.8	139.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	158.8	161.8	174.5	180.8	168.2	151.4	144.0	142.9	140.9	137.7	138.7
112.5°	172.4	174.5	189.2	197.6	182.9	156.6	144.0	140.9	137.7	135.6	136.7
115°	192.3	191.3	209.2	216.6	196.5	161.8	145.1	137.7	134.5	132.5	132.5
117.5°	215.4	213.4	231.3	231.3	207.0	166.1	145.1	134.5	130.3	128.3	128.3
120°	231.3	227.0	247.0	238.7	208.2	166.1	144.0	130.3	125.1	123.0	121.9
122.5°	228.1	223.9	247.0	228.1	192.3	153.4	134.5	123.0	116.7	114.6	113.5
125°	199.7	195.5	210.2	192.3	161.8	128.3	113.5	104.0	100.9	98.8	98.8
127.5°	161.8	158.8	161.8	150.3	127.2	103.0	91.5	85.1	83.1	81.9	81.9
130°	118.8	119.8	121.9	113.5	95.6	79.9	70.4	66.2	65.2	64.1	64.1
132.5°	86.2	86.2	88.3	83.1	69.4	59.9	54.6	51.5	51.5	50.4	50.4
135°	57.8	58.8	61.0	57.8	49.4	43.1	39.9	38.9	38.9	37.8	37.8
137.5°	41.0	43.1	44.2	41.0	36.8	32.6	29.5	28.3	29.5	28.3	28.3
140°	31.5	32.6	33.7	31.5	27.3	24.1	23.1	22.1	22.1	22.1	22.1
142.5°	24.1	24.1	25.3	23.1	19.9	17.9	16.8	16.8	16.8	16.8	16.8
145°	15.8	16.8	16.8	15.8	13.7	12.6	11.6	10.5	10.5	10.5	10.5
147.5°	8.4	9.4	10.5	9.4	8.4	7.4	6.3	6.3	5.2	5.2	5.2
150°	4.2	4.2	5.2	5.2	4.2	3.2	2.1	2.1	2.1	1.0	1.0
152.5°	2.1	2.1	3.2	3.2	2.1	1.0	0.0	0.0	0.0	0.0	0.0
155°	2.1	2.1	3.2	3.2	2.1	1.0	0.0	0.0	0.0	0.0	0.0
157.5°	2.1	2.1	2.1	3.2	2.1	1.0	0.0	0.0	0.0	0.0	0.0
160°	2.1	2.1	2.1	3.2	2.1	1.0	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	0.0	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)