

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: P314633

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPB-A5-D-U-ASYM-7027
Description: BRECKENRIDGE POST TOP LUMINAIRE
(1) 70 CRI, 2700K LIGHT ENGINE. ASYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4552 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U4 - G4

Input Watts (W): 51.2
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

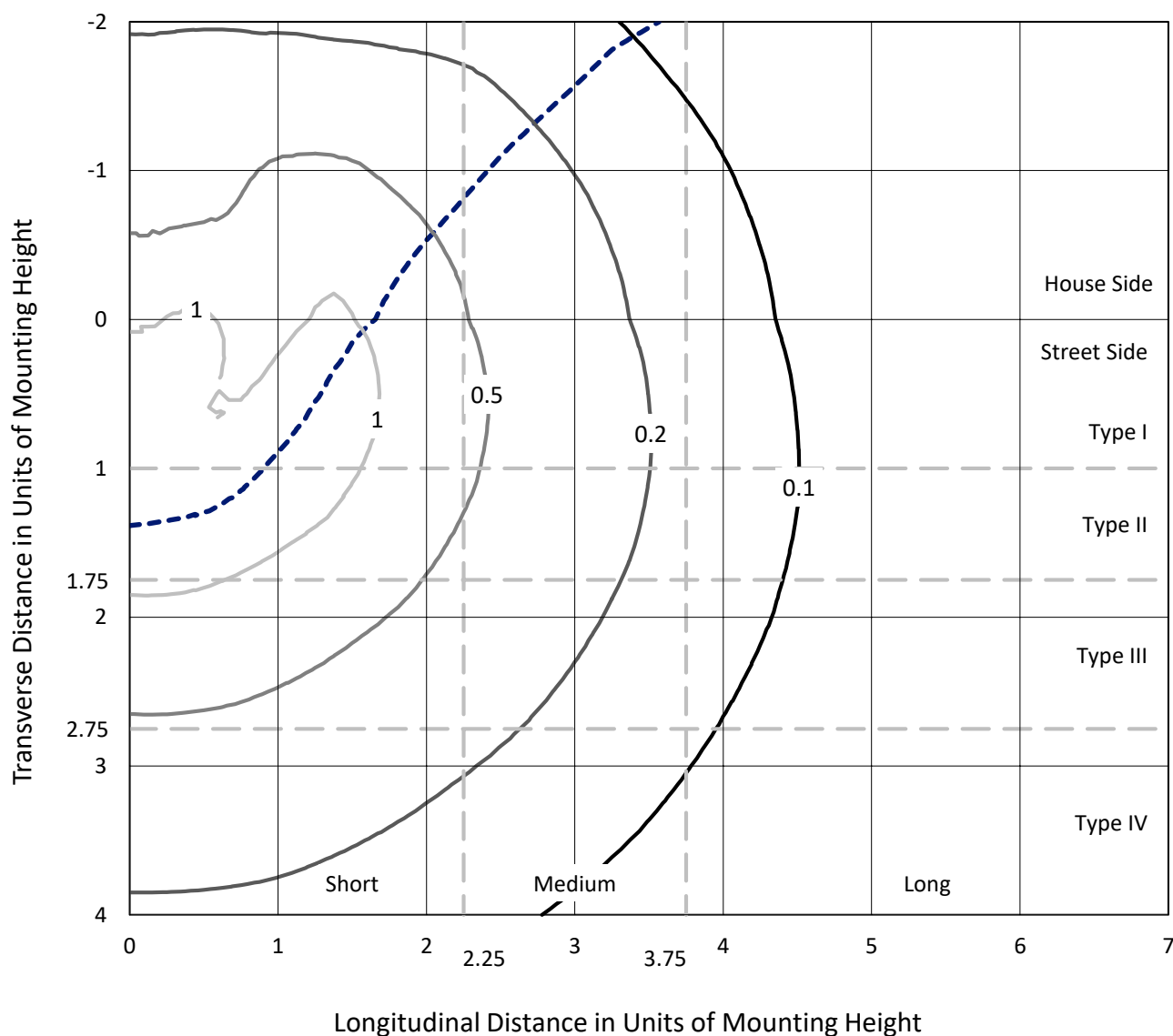


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

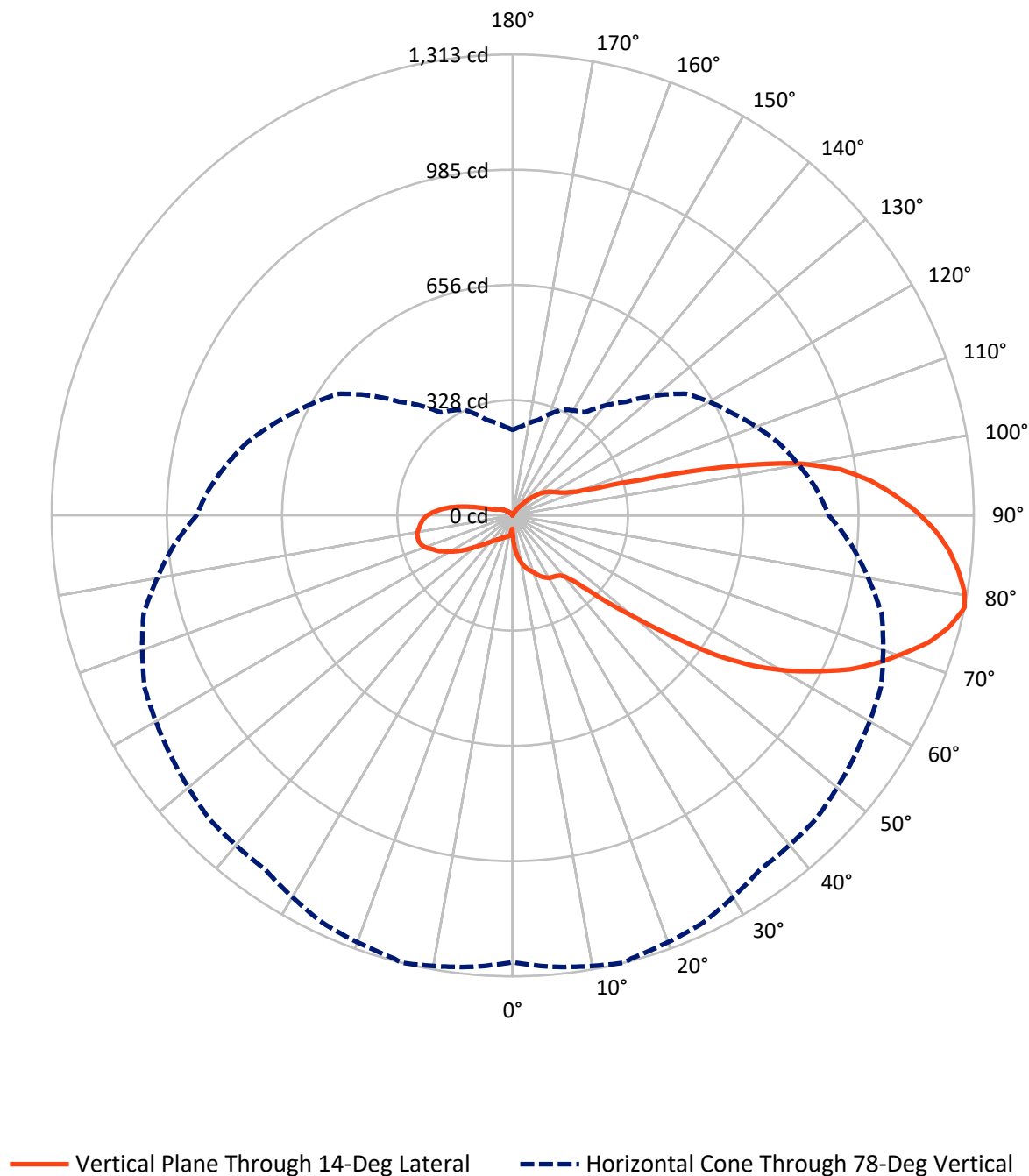


Based on 10 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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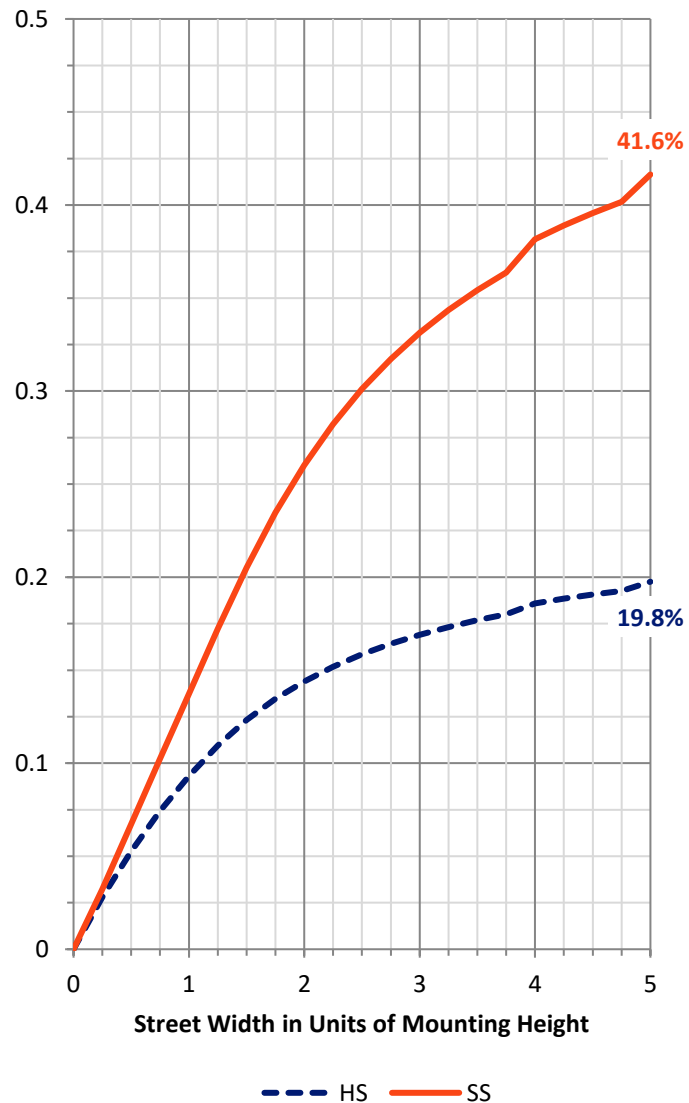
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1021.3	374.8	1396.1
	% Fixture	22.4	8.2	30.7
Street Side	Lumens	2275.6	880.3	3155.9
	% Fixture	50.0	19.3	69.3
Total	Lumens	3296.9	1255.1	4552.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.0	0.2
10°-20°	32.2	0.7
20°-30°	63.7	1.4
30°-40°	97.3	2.1
40°-50°	184.3	4.0
50°-60°	444.2	9.8
60°-70°	704.5	15.5
70°-80°	880.8	19.4
80°-90°	881.8	19.4
90°-100°	723.2	15.9
100°-110°	308.2	6.8
110°-120°	106.4	2.3
120°-130°	71.0	1.6
130°-140°	35.3	0.8
140°-150°	10.2	0.2
150°-160°	0.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	3296.9	72.4
0°-180°	4552.0	100.0

Coefficient of Utilization



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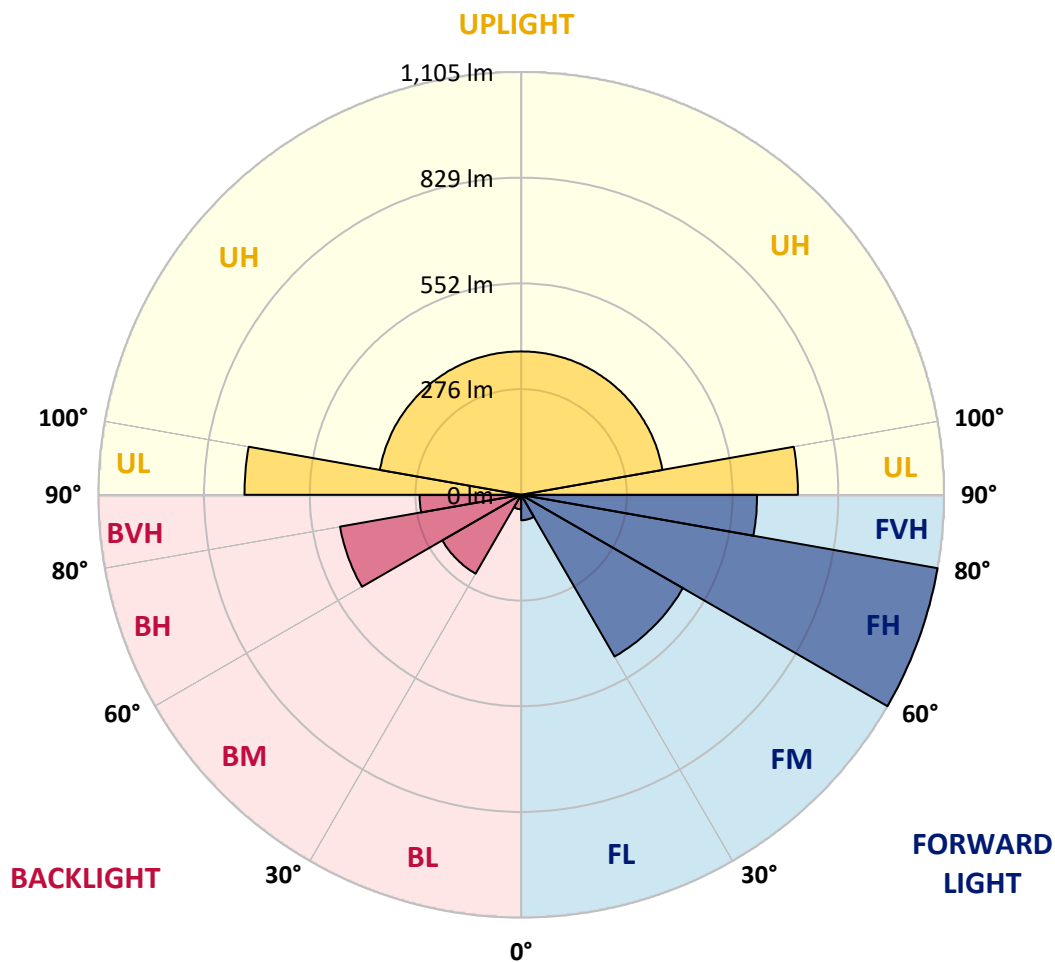
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	66.4	1.5			
FM	(30°-60°)	487.9	10.7			
FH	(60°-80°)	1104.9	24.3			G1/1800
FVH	(80°-90°)	616.4	13.5			G4/750
BL	(0°-30°)	37.6	0.8	B0/110		
BM	(30°-60°)	237.9	5.2	B1/1000		
BH	(60°-80°)	480.4	10.6	B1/500		G1/500
BVH	(80°-90°)	265.4	5.8			G3/500
UL	(90°-100°)	723.2	15.9		U4/1000	
UH	(100°-180°)	374.8	8.2		U3/500	

BUG Rating: B1-U4-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
2.5°	88.5	87.8	87.1	86.3	85.6	81.2	79.8	76.8	73.2	68.8	65.1
5°	109.8	109.0	107.6	107.6	105.4	102.4	99.5	95.9	90.0	84.1	79.0
7.5°	126.6	125.1	124.4	123.7	122.2	118.5	114.9	110.5	105.4	99.5	93.7
10°	139.0	139.0	138.3	138.3	136.1	132.4	127.3	122.9	117.1	109.8	103.2
12.5°	150.7	150.0	149.3	149.3	147.1	142.7	137.6	132.4	126.6	119.3	112.7
15°	158.8	158.8	158.8	158.0	155.1	151.5	146.3	142.0	135.4	127.3	120.7
17.5°	166.8	166.8	166.1	166.1	162.4	158.8	153.7	149.3	142.7	134.6	127.3
20°	175.6	175.6	174.1	173.4	170.5	167.6	161.7	156.6	150.0	142.7	134.6
22.5°	186.6	185.9	184.4	184.4	180.7	175.6	170.5	165.4	158.8	150.7	142.7
25°	195.4	195.4	193.9	193.2	190.2	185.9	180.0	172.7	166.1	158.0	150.7
27.5°	203.4	202.7	200.5	199.8	196.8	192.4	186.6	180.0	172.0	163.9	155.9
30°	210.0	208.5	206.3	206.3	202.7	197.6	191.7	185.1	175.6	168.3	160.2
32.5°	212.9	212.2	209.3	208.5	204.9	199.8	193.9	186.6	178.5	170.5	163.2
35°	215.9	215.1	212.2	211.5	207.1	201.2	194.6	188.0	179.3	172.7	164.6
37.5°	221.0	221.0	217.3	216.6	212.2	207.8	201.2	194.6	187.3	178.5	169.8
40°	232.0	231.2	229.0	227.6	223.9	222.4	216.6	210.0	202.7	196.1	182.9
42.5°	256.1	256.8	256.8	255.4	251.7	253.9	250.2	245.1	236.3	227.6	210.7
45°	300.0	308.0	305.9	304.4	300.0	307.3	305.1	302.9	290.5	277.3	253.9
47.5°	367.3	378.3	380.5	374.6	370.2	376.1	384.9	380.5	363.7	347.6	318.3
50°	455.1	466.8	463.9	462.4	453.7	470.5	482.2	480.0	460.2	440.5	395.1
52.5°	564.9	570.7	576.6	570.0	561.9	583.9	609.5	606.6	586.8	556.8	499.8
55°	690.0	695.9	701.7	693.7	681.9	707.6	741.2	734.6	714.1	665.1	599.3
57.5°	799.8	810.7	808.5	805.6	781.5	807.1	834.1	827.6	802.7	747.1	671.7
60°	882.4	889.0	897.8	894.9	881.7	886.8	914.6	898.5	868.5	807.1	725.9
62.5°	957.1	965.9	977.6	974.6	964.4	956.3	978.3	957.1	926.3	865.6	775.6
65°	1031.0	1041.2	1057.3	1052.9	1039.8	1021.5	1042.7	1020.7	986.3	920.5	821.0
67.5°	1091.0	1101.9	1121.0	1118.8	1110.0	1088.8	1094.6	1067.6	1031.7	962.9	858.3
70°	1152.4	1164.9	1178.8	1181.7	1157.6	1138.5	1143.7	1113.7	1082.2	1014.1	901.5
72.5°	1205.9	1211.7	1238.0	1243.9	1211.7	1178.8	1184.6	1150.2	1115.9	1040.5	931.5
75°	1253.4	1260.0	1280.5	1281.2	1244.6	1213.9	1215.4	1186.8	1156.1	1080.7	959.3
77.5°	1273.9	1286.3	1308.3	1301.7	1276.8	1230.0	1235.1	1206.6	1170.0	1087.3	962.9
78°	1272.4	1290.7	1312.7	1306.1	1280.5	1230.0	1221.9	1189.8	1156.8	1088.0	968.0
80°	1267.3	1290.0	1303.9	1297.3	1274.6	1216.8	1206.6	1179.5	1148.8	1079.3	953.4
82.5°	1238.0	1262.9	1277.6	1272.4	1255.6	1194.9	1189.8	1178.8	1151.0	1075.6	943.2
85°	1212.4	1237.3	1245.4	1241.7	1223.4	1166.3	1163.4	1143.7	1106.3	1036.1	911.0
87.5°	1178.0	1199.3	1202.9	1203.7	1182.4	1124.6	1120.2	1104.1	1077.1	1012.7	889.0
90°	1124.6	1142.9	1151.0	1151.0	1133.4	1080.0	1080.7	1075.6	1050.7	981.9	858.3
92.5°	1063.9	1081.5	1089.5	1088.8	1073.4	1026.6	1026.6	1017.1	984.9	924.9	809.3
95°	999.5	1012.7	1024.4	1023.7	1003.2	959.3	957.8	957.1	926.3	867.8	761.7
97.5°	919.0	926.3	942.4	940.2	921.2	888.3	889.8	892.7	864.9	810.0	707.6
100°	795.4	794.6	815.1	810.7	799.0	777.8	787.3	791.7	768.3	720.7	634.4
102.5°	591.9	591.2	608.8	604.4	605.1	597.1	612.4	619.8	605.1	568.5	498.3
105°	371.0	368.0	378.3	375.4	371.7	361.5	363.7	360.7	352.7	330.7	290.5
107.5°	245.9	243.7	248.8	250.2	243.7	236.3	234.1	231.2	222.4	209.3	186.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	190.2	190.2	193.2	191.7	188.8	185.1	182.2	180.7	174.1	165.4	148.5
112.5°	163.2	163.2	166.1	165.4	163.2	159.5	158.8	157.3	152.9	145.6	132.4
115°	148.5	148.5	150.7	150.7	148.5	144.9	144.1	143.4	140.5	133.9	122.2
117.5°	139.0	138.3	140.5	140.5	137.6	135.4	135.4	134.6	132.4	125.9	115.6
120°	130.2	130.2	131.7	131.7	129.5	128.0	128.8	128.0	125.9	119.3	109.0
122.5°	122.2	122.2	123.7	122.9	121.5	121.5	121.5	121.5	119.3	113.4	103.2
125°	112.0	112.0	113.4	113.4	112.0	112.7	113.4	113.4	112.0	106.1	96.6
127.5°	101.0	101.0	102.4	102.4	101.7	103.2	105.4	104.6	103.2	98.0	89.3
130°	88.5	88.5	90.0	90.7	90.7	92.9	94.4	94.4	92.9	88.5	79.8
132.5°	75.4	74.6	76.1	76.8	78.3	80.5	81.2	81.2	80.5	76.1	68.8
135°	60.7	60.7	62.9	63.7	65.1	66.6	67.3	68.0	67.3	63.7	57.1
137.5°	46.8	46.8	49.0	49.8	51.2	52.0	52.0	53.4	52.0	49.8	44.6
140°	36.6	36.6	38.0	38.8	40.2	40.2	39.5	39.5	38.8	37.3	32.9
142.5°	29.3	28.5	30.7	30.7	31.5	32.2	31.5	31.5	30.7	29.3	26.3
145°	22.0	22.0	22.7	23.4	23.4	24.1	24.1	24.1	23.4	22.7	19.8
147.5°	14.6	14.6	16.1	16.1	16.8	17.6	17.6	17.6	16.8	16.1	13.9
150°	7.3	7.3	8.0	8.8	9.5	9.5	10.2	11.0	10.2	9.5	8.0
152.5°	0.0	0.0	0.7	0.7	1.5	2.2	2.9	2.9	2.9	2.9	2.9
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.7	0.7	0.7
160°	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.7	0.7	0.7	0.7
162.5°	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7
165°	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7
170°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7
172.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7
175°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7
177.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7
180°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
2.5°	62.9	60.0	56.3	52.7	49.0	45.4	42.4	39.5	38.0	36.6	36.6
5°	76.1	73.2	68.0	62.9	57.8	54.1	51.2	49.0	47.6	47.6	48.3
7.5°	90.7	87.8	80.5	73.2	68.0	63.7	60.0	57.8	55.6	54.1	54.1
10°	100.2	95.9	89.3	82.7	76.8	71.0	66.6	62.9	59.3	57.1	56.3
12.5°	108.3	104.6	96.6	89.3	82.7	75.4	70.2	65.1	60.7	57.8	57.1
15°	115.6	111.2	103.2	95.1	87.1	79.0	72.4	66.6	62.2	58.5	58.5
17.5°	122.9	118.5	109.8	101.0	91.5	82.7	74.6	68.8	63.7	60.7	60.0
20°	130.2	125.1	116.3	106.8	95.9	86.3	77.6	71.0	65.9	63.7	62.9
22.5°	137.6	132.4	122.9	112.7	101.0	90.0	80.5	73.2	68.0	66.6	66.6
25°	144.9	139.0	128.8	117.8	105.4	94.4	84.1	76.1	71.0	69.5	70.2
27.5°	150.0	144.9	133.9	122.2	109.8	98.0	87.1	79.0	73.9	73.2	73.2
30°	155.1	149.3	137.6	125.9	113.4	101.7	90.7	82.0	77.6	76.8	77.6
32.5°	158.0	152.2	139.8	128.8	116.3	103.9	93.7	84.9	80.5	81.2	81.2
35°	159.5	153.7	142.7	131.0	118.5	106.8	96.6	88.5	85.6	85.6	85.6
37.5°	163.9	158.0	146.3	134.6	122.9	111.2	101.0	92.9	90.7	91.5	90.7
40°	174.9	169.0	155.9	142.7	130.2	117.8	106.8	98.8	97.3	98.0	97.3
42.5°	201.2	194.6	175.6	158.0	142.7	128.0	114.9	106.8	105.4	105.4	106.1
45°	240.0	231.2	210.0	183.7	163.9	144.1	127.3	117.1	114.9	114.1	113.4
47.5°	297.1	283.9	257.6	223.9	193.9	168.3	143.4	129.5	125.1	123.7	122.2
50°	371.7	357.1	318.3	274.4	240.7	199.8	165.4	145.6	137.6	133.2	131.7
52.5°	463.9	449.3	397.3	343.2	294.9	240.7	195.4	165.4	153.7	144.9	142.7
55°	556.8	541.5	483.7	409.8	356.3	283.2	228.3	188.8	172.0	158.0	156.6
57.5°	623.4	603.7	541.5	466.1	407.6	321.2	253.2	209.3	188.0	172.0	168.3
60°	668.8	648.3	587.6	504.9	447.1	350.5	273.7	226.8	204.9	187.3	184.4
62.5°	713.4	692.9	624.1	539.3	478.5	368.8	291.2	242.2	220.2	202.0	202.0
65°	755.1	733.2	658.5	574.4	509.3	386.3	307.3	257.6	237.1	219.5	223.2
67.5°	789.5	767.6	690.0	608.8	534.1	405.4	319.0	278.8	248.0	234.9	234.1
70°	829.8	804.1	722.9	638.0	564.9	429.5	330.7	295.6	264.1	250.2	238.5
72.5°	856.8	824.6	750.7	660.7	578.8	443.4	343.2	316.1	275.1	251.7	243.7
75°	886.1	856.8	777.1	679.8	603.7	455.9	350.5	324.9	280.2	252.4	242.9
77.5°	891.2	860.5	782.9	683.4	601.5	462.4	360.0	329.3	280.2	253.2	244.4
78°	900.0	867.8	787.3	689.3	603.7	458.0	357.8	332.2	281.0	253.2	243.7
80°	886.8	858.3	779.3	679.8	596.3	453.7	357.1	332.9	279.5	250.2	240.0
82.5°	872.2	846.6	763.9	668.8	586.8	447.1	352.0	321.2	272.9	241.5	232.0
85°	842.2	823.2	747.8	651.9	568.5	431.7	346.8	318.3	267.1	233.4	224.6
87.5°	819.5	801.9	725.9	641.0	558.3	419.3	336.6	310.2	260.5	226.1	217.3
90°	787.3	766.8	690.7	605.9	528.3	401.7	324.9	294.1	249.5	217.3	208.5
92.5°	744.1	727.3	654.9	572.2	499.8	376.1	304.4	277.3	232.0	204.9	195.4
95°	699.5	684.1	614.6	540.7	471.9	353.4	283.9	257.6	210.0	188.8	178.5
97.5°	648.3	634.4	568.5	496.1	430.2	324.1	256.1	232.0	185.1	165.4	158.8
100°	575.1	561.9	498.3	432.4	372.4	279.5	213.7	193.2	153.7	136.8	131.0
102.5°	443.4	432.4	377.6	324.9	273.7	203.4	151.5	139.0	116.3	101.7	97.3
105°	260.5	253.9	224.6	193.9	162.4	125.1	95.1	92.9	79.8	73.2	69.5
107.5°	169.0	163.9	147.1	129.5	110.5	87.8	70.2	66.6	59.3	56.3	54.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	138.3	133.9	120.7	106.1	91.5	72.4	60.0	55.6	49.8	47.6	46.8
112.5°	122.9	119.3	107.6	94.4	82.0	65.1	54.1	49.8	44.6	42.4	41.7
115°	114.1	109.8	98.8	87.1	76.1	60.7	50.5	46.1	41.0	38.0	38.0
117.5°	106.8	102.4	92.9	82.0	71.0	56.3	46.8	41.7	37.3	34.4	33.7
120°	101.7	97.3	87.8	76.8	66.6	52.7	43.9	38.0	32.9	30.0	29.3
122.5°	95.9	91.5	82.0	71.7	60.7	48.3	39.5	33.7	29.3	26.3	25.6
125°	90.0	85.6	76.1	65.9	54.9	43.2	35.1	29.3	24.9	22.7	22.0
127.5°	83.4	79.0	69.5	59.3	49.0	38.0	30.7	25.6	21.2	19.0	18.3
130°	74.6	70.2	61.5	52.0	42.4	32.9	26.3	21.2	18.3	16.1	15.4
132.5°	64.4	60.0	52.0	43.9	35.9	27.8	21.2	17.6	14.6	13.2	12.4
135°	53.4	49.8	43.2	35.9	29.3	22.7	17.6	14.6	11.7	10.2	10.2
137.5°	41.7	38.8	32.9	27.8	22.7	17.6	13.2	11.0	9.5	8.0	8.0
140°	31.5	29.3	24.9	21.2	16.8	13.2	10.2	8.8	7.3	5.9	5.9
142.5°	24.1	22.7	19.0	16.1	13.2	9.5	7.3	5.9	5.1	4.4	4.4
145°	18.3	16.8	13.9	11.7	9.5	6.6	5.1	3.7	2.9	2.9	2.2
147.5°	12.4	11.7	9.5	7.3	5.9	3.7	2.9	2.2	1.5	1.5	0.7
150°	6.6	5.9	4.4	3.7	2.2	1.5	1.5	0.7	0.0	0.0	0.0
152.5°	2.2	2.2	1.5	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

(END OF REPORT)