

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: McGRAW-EDISON

Report Number: P588463

Luminaire Tested: **GAT-CA6-LED-50-760-U-33-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GAT-CA6-LED-50-760-U-33-5-6-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5214 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U3 - G3

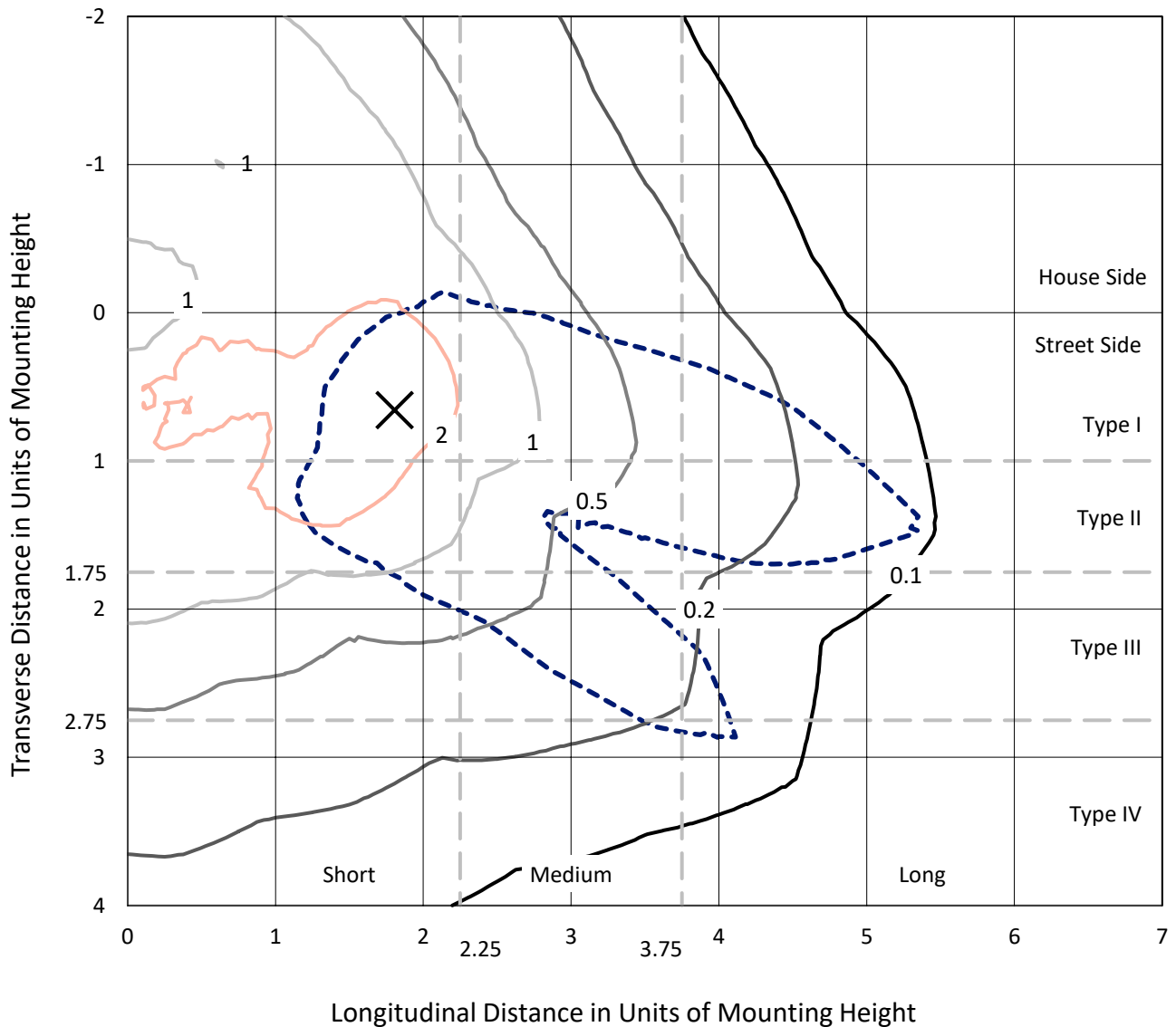
Input Watts (W): 54
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

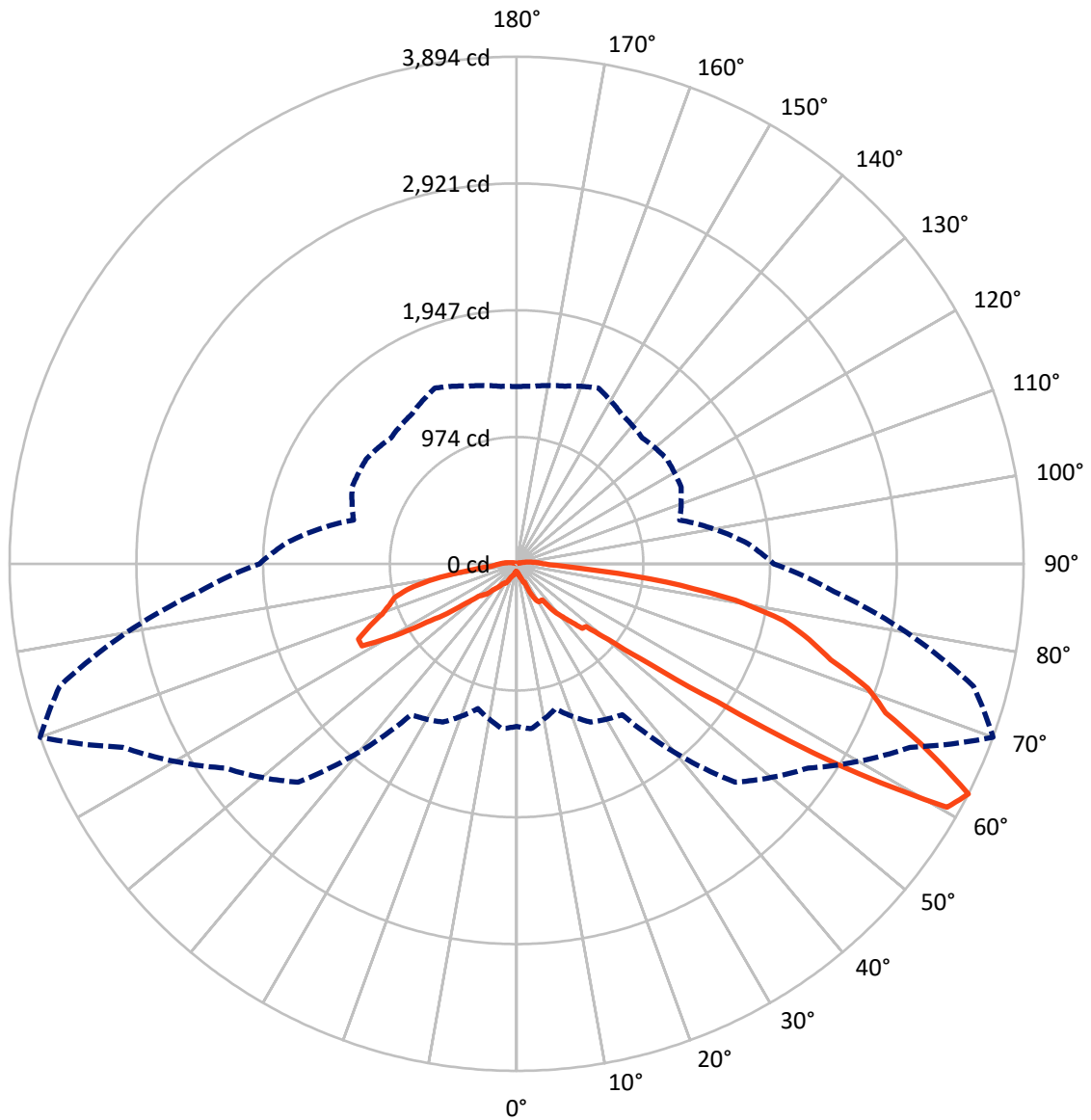
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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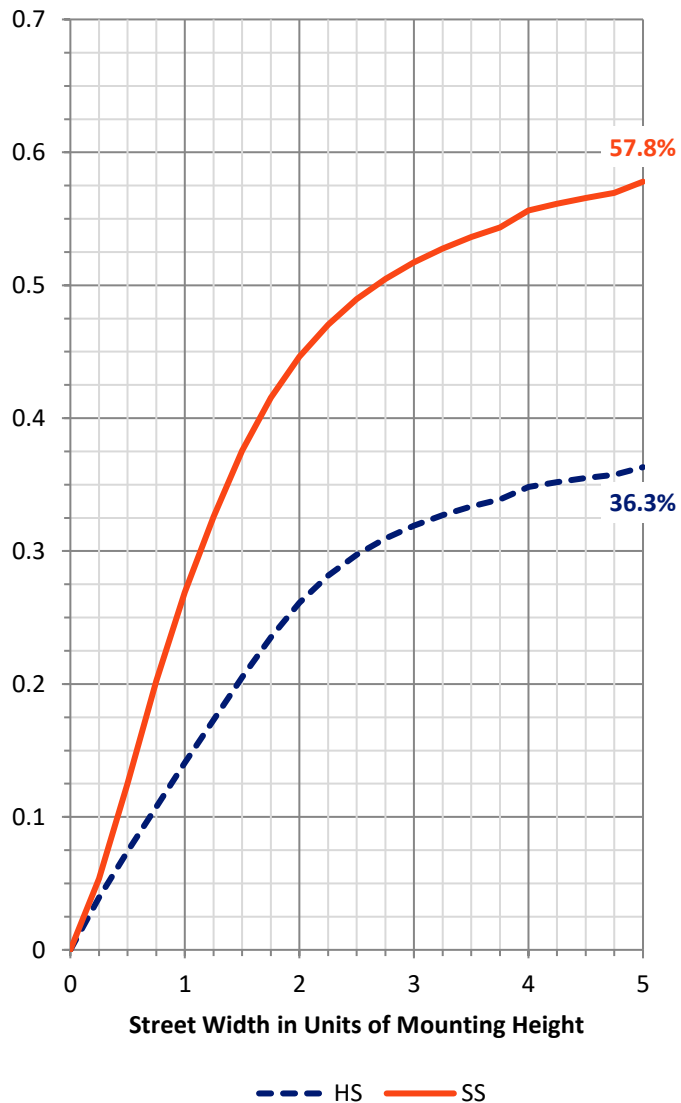
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1932.4	70.8	2003.3
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	3113.4	97.4	3210.7
	% Fixture	59.7	1.9	61.6
Total	Lumens	5045.8	168.2	5214.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	0.1
10°-20°	28.4	0.5
20°-30°	87.9	1.7
30°-40°	188.6	3.6
40°-50°	353.4	6.8
50°-60°	917.1	17.6
60°-70°	1679.9	32.2
70°-80°	1347.5	25.8
80°-90°	436.3	8.4
90°-100°	115.0	2.2
100°-110°	37.4	0.7
110°-120°	14.7	0.3
120°-130°	1.1	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5045.8	96.8
0°-180°	5214.0	100.0

Coefficient of Utilization



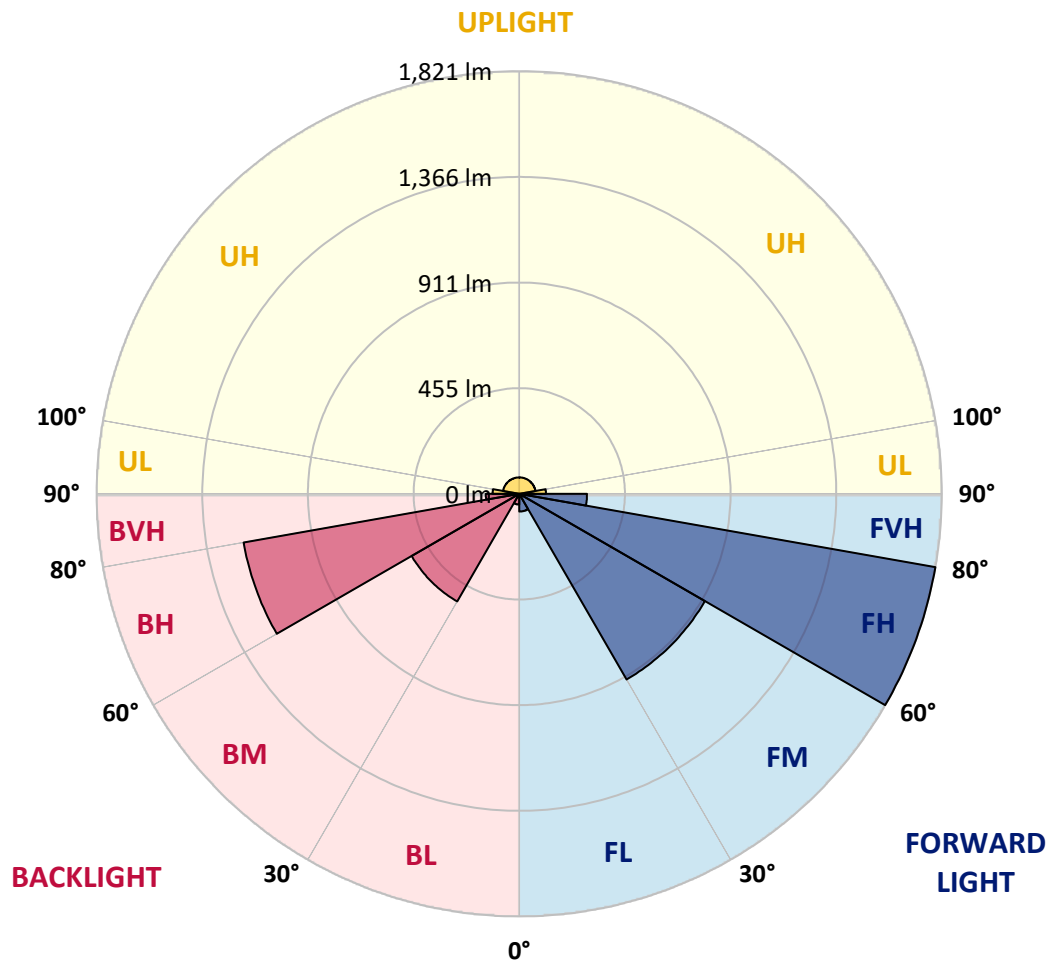
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	76.5	1.5			
FM (30°-60°)	923.8	17.7			
FH (60°-80°)	1821.1	34.9			G2/5000
FVH (80°-90°)	291.9	5.6			G3/500
BL (0°-30°)	46.4	0.9	B0/110		
BM (30°-60°)	535.3	10.3	B1/1000		
BH (60°-80°)	1206.3	23.1	B3/2500		G3/2500
BVH (80°-90°)	144.4	2.8			G2/225
UL (90°-100°)	115.0	2.2		U3/500	
UH (100°-180°)	70.8	1.4		U3/500	

BUG Rating: B3-U3-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
2.5°	66.8	66.8	66.8	65.8	64.8	63.8	62.8	62.8	61.8	60.8	59.8
5°	72.8	71.8	70.8	68.8	67.8	67.8	66.8	66.8	66.8	65.8	64.8
7.5°	80.7	80.7	79.7	78.7	77.7	76.7	75.8	74.8	74.8	73.8	72.8
10°	91.7	91.7	91.7	90.7	90.7	89.7	87.7	86.7	84.7	83.7	80.7
12.5°	102.7	103.7	101.7	101.7	101.7	100.7	98.7	97.7	95.7	93.7	89.7
15°	113.6	112.6	111.6	110.6	112.6	112.6	111.6	111.6	107.6	104.7	97.7
17.5°	123.6	123.6	124.6	124.6	127.6	126.6	126.6	125.6	123.6	118.6	109.6
20°	139.5	140.5	140.5	140.5	150.5	154.5	155.5	156.5	153.5	143.5	125.6
22.5°	155.5	156.5	163.5	161.5	161.5	161.5	171.4	166.5	153.5	141.5	131.6
25°	210.3	213.3	215.3	222.3	230.2	252.2	287.1	276.1	256.2	215.3	181.4
27.5°	263.1	267.1	303.0	352.8	359.8	333.9	358.8	325.9	316.0	274.1	246.2
30°	287.1	294.0	355.8	389.7	401.7	367.8	403.7	340.9	337.9	308.0	284.1
32.5°	293.0	298.0	365.8	369.8	372.8	368.8	422.6	345.9	338.9	309.0	274.1
35°	284.1	290.1	335.9	313.0	314.0	384.7	485.4	372.8	340.9	289.1	250.2
37.5°	349.9	349.9	388.7	394.7	420.6	506.3	635.9	492.4	456.5	376.8	328.9
40°	398.7	403.7	465.5	488.4	492.4	565.2	796.4	577.1	526.3	421.6	384.7
42.5°	464.5	463.5	520.3	536.3	547.2	574.1	814.3	663.8	604.0	477.4	449.5
45°	475.5	491.4	543.2	525.3	539.2	608.0	850.2	786.4	706.7	583.1	525.3
47.5°	431.6	453.5	558.2	543.2	487.4	519.3	681.8	807.4	719.7	599.0	558.2
50°	465.5	477.4	529.3	519.3	444.6	552.2	748.6	1011.7	914.0	712.7	608.0
52.5°	602.0	628.0	636.9	675.8	639.9	826.3	1047.6	1281.8	1268.9	1031.6	802.4
55°	773.5	811.4	851.2	998.7	1019.7	1297.8	1462.2	1712.4	1867.9	1631.7	1231.0
57.5°	958.9	1012.7	999.7	1214.0	1246.9	1758.3	1909.8	2495.9	2911.5	2590.6	1803.1
60°	1138.3	1174.2	1101.4	1289.8	1352.6	2213.8	2436.1	3250.4	3797.6	3455.7	2220.8
62.5°	1248.9	1271.9	1152.2	1341.6	1415.4	2372.3	2734.1	3335.1	3894.3	3634.2	2447.0
65°	1247.9	1242.0	1105.4	1269.9	1259.9	2189.9	2642.4	2802.9	3478.7	3434.8	2475.9
67.5°	1199.1	1201.1	1057.6	1188.1	1147.3	1930.7	2448.0	2371.3	3058.0	3116.8	2408.2
70°	1152.2	1176.2	1039.6	1153.2	1134.3	1856.9	2363.3	2134.0	2860.7	2972.3	2336.4
72.5°	1086.5	1109.4	980.8	1080.5	1087.5	1709.4	2218.8	1862.9	2522.8	2657.3	2094.2
75°	1085.5	1114.4	993.8	1081.5	1092.4	1625.7	2236.7	1769.2	2320.4	2500.8	1954.6
77.5°	1023.7	1049.6	937.9	1019.7	1050.6	1471.2	2134.0	1652.6	2096.2	2298.5	1772.2
80°	822.3	857.2	765.5	819.3	836.3	1103.4	1711.4	1353.6	1705.4	1907.8	1448.3
82.5°	562.2	594.1	533.3	573.1	595.1	723.6	1183.1	974.8	1159.2	1282.8	907.0
85°	324.9	362.8	326.9	322.0	332.9	381.8	636.9	518.3	539.2	567.2	402.7
87.5°	204.3	210.3	192.4	193.4	195.4	209.3	290.1	231.2	255.2	289.1	244.2
90°	162.5	168.5	155.5	156.5	153.5	166.5	217.3	176.4	196.4	226.3	193.4
92.5°	140.5	144.5	135.6	137.6	135.6	145.5	181.4	145.5	161.5	185.4	158.5
95°	119.6	122.6	117.6	118.6	112.6	118.6	141.5	110.6	122.6	139.5	118.6
97.5°	95.7	98.7	95.7	95.7	89.7	92.7	108.6	85.7	93.7	104.7	89.7
100°	75.8	76.7	75.8	74.8	69.8	69.8	75.8	61.8	64.8	71.8	61.8
102.5°	57.8	58.8	57.8	56.8	50.8	47.8	47.8	39.9	41.9	43.9	38.9
105°	45.9	46.8	45.9	43.9	38.9	35.9	34.9	28.9	28.9	29.9	26.9
107.5°	37.9	37.9	37.9	35.9	32.9	28.9	25.9	20.9	20.9	21.9	20.9
110°	30.9	30.9	29.9	28.9	25.9	22.9	19.9	16.9	16.9	16.9	15.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	25.9	25.9	24.9	23.9	20.9	17.9	15.9	14.0	14.0	14.0	13.0
115°	21.9	21.9	20.9	19.9	17.9	15.0	13.0	11.0	11.0	11.0	11.0
117.5°	18.9	18.9	17.9	16.9	15.0	13.0	11.0	9.0	9.0	9.0	9.0
120°	16.9	15.9	15.0	14.0	12.0	11.0	9.0	8.0	8.0	8.0	7.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	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	0.0	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°	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
2.5°	59.8	59.8	58.8	58.8	58.8	57.8	57.8	58.8	58.8	58.8	58.8
5°	63.8	62.8	60.8	58.8	57.8	56.8	55.8	55.8	57.8	57.8	57.8
7.5°	71.8	70.8	67.8	65.8	63.8	61.8	60.8	59.8	60.8	61.8	61.8
10°	79.7	78.7	74.8	71.8	70.8	68.8	67.8	66.8	67.8	67.8	67.8
12.5°	87.7	85.7	82.7	78.7	76.7	75.8	74.8	73.8	73.8	73.8	73.8
15°	94.7	91.7	88.7	85.7	83.7	81.7	80.7	79.7	80.7	81.7	81.7
17.5°	105.7	102.7	95.7	90.7	89.7	87.7	86.7	86.7	87.7	88.7	88.7
20°	117.6	111.6	103.7	98.7	97.7	94.7	93.7	93.7	94.7	95.7	95.7
22.5°	127.6	123.6	111.6	104.7	103.7	102.7	103.7	103.7	104.7	105.7	105.7
25°	162.5	146.5	129.6	124.6	123.6	121.6	119.6	118.6	119.6	122.6	123.6
27.5°	219.3	190.4	158.5	147.5	147.5	149.5	153.5	155.5	151.5	149.5	150.5
30°	257.2	218.3	172.4	162.5	164.5	174.4	183.4	189.4	185.4	182.4	183.4
32.5°	247.2	211.3	178.4	176.4	182.4	190.4	195.4	198.4	206.3	209.3	213.3
35°	225.3	198.4	180.4	188.4	192.4	192.4	192.4	192.4	207.3	221.3	225.3
37.5°	275.1	229.3	214.3	217.3	214.3	211.3	214.3	222.3	235.2	246.2	249.2
40°	322.9	265.1	240.2	238.2	237.2	247.2	265.1	279.1	283.1	273.1	275.1
42.5°	375.8	300.0	268.1	271.1	279.1	295.0	315.0	315.0	315.0	306.0	309.0
45°	425.6	340.9	322.0	329.9	329.9	337.9	348.9	341.9	350.9	354.8	359.8
47.5°	484.4	395.7	353.8	346.9	347.9	363.8	367.8	364.8	370.8	363.8	363.8
50°	502.4	404.7	371.8	398.7	398.7	380.8	365.8	367.8	384.7	403.7	407.7
52.5°	638.9	501.4	471.5	499.4	511.3	480.4	480.4	484.4	488.4	502.4	506.3
55°	955.9	714.7	625.0	689.8	698.7	717.7	769.5	761.5	715.7	692.7	690.7
57.5°	1429.3	1060.5	778.5	870.2	928.0	1005.7	1044.6	1021.7	959.9	938.9	916.0
60°	1827.0	1452.3	1008.7	1168.2	1254.9	1267.9	1253.9	1255.9	1209.1	1224.0	1218.0
62.5°	1974.6	1782.2	1296.8	1393.5	1406.4	1366.5	1403.4	1488.1	1412.4	1367.5	1360.6
65°	2018.4	1904.8	1377.5	1314.7	1302.8	1295.8	1441.3	1582.8	1413.4	1308.7	1307.7
67.5°	1974.6	1779.2	1274.8	1171.2	1199.1	1255.9	1445.3	1498.1	1338.6	1223.0	1215.0
70°	1917.7	1576.9	1147.3	1057.6	1122.3	1205.1	1325.7	1304.7	1242.0	1139.3	1134.3
72.5°	1711.4	1366.5	1065.5	990.8	1064.5	1088.5	1148.3	1139.3	1157.2	1092.4	1089.4
75°	1532.0	1254.9	1016.7	929.0	964.9	960.9	1008.7	1019.7	1070.5	1042.6	1031.6
77.5°	1321.7	1091.4	896.1	794.4	808.4	807.4	830.3	837.3	873.2	875.1	863.2
80°	1034.6	855.2	699.7	598.1	600.0	582.1	585.1	584.1	591.1	599.0	588.1
82.5°	594.1	477.4	396.7	331.9	318.0	294.0	289.1	291.1	288.1	286.1	286.1
85°	291.1	226.3	208.3	186.4	178.4	172.4	175.4	181.4	184.4	178.4	175.4
87.5°	196.4	169.4	161.5	152.5	148.5	142.5	146.5	151.5	155.5	150.5	149.5
90°	155.5	134.6	132.6	130.6	127.6	122.6	126.6	132.6	135.6	131.6	129.6
92.5°	125.6	108.6	108.6	107.6	104.7	100.7	105.7	110.6	113.6	110.6	109.6
95°	96.7	83.7	86.7	84.7	81.7	80.7	83.7	87.7	89.7	87.7	87.7
97.5°	74.8	65.8	68.8	67.8	63.8	62.8	64.8	67.8	69.8	67.8	66.8
100°	50.8	46.8	50.8	50.8	46.8	44.9	46.8	49.8	50.8	50.8	49.8
102.5°	33.9	31.9	36.9	37.9	35.9	33.9	34.9	36.9	37.9	37.9	37.9
105°	23.9	23.9	28.9	29.9	27.9	25.9	27.9	28.9	28.9	28.9	28.9
107.5°	18.9	19.9	22.9	24.9	22.9	20.9	21.9	22.9	22.9	22.9	23.9
110°	15.9	15.9	18.9	20.9	18.9	17.9	17.9	17.9	17.9	18.9	20.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	13.0	14.0	15.9	16.9	15.9	15.0	15.0	15.0	15.0	15.9	18.9
115°	11.0	12.0	14.0	14.0	13.0	13.0	13.0	12.0	12.0	13.0	17.9
117.5°	9.0	10.0	11.0	11.0	11.0	10.0	10.0	10.0	10.0	12.0	18.9
120°	8.0	8.0	9.0	9.0	8.0	8.0	8.0	8.0	7.0	10.0	15.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	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	0.0	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)