

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: P227711

Luminaire Tested: **ISS-AF-350-LED-E1-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29759)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-350-LED-E1-T3-8030
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1946 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G1

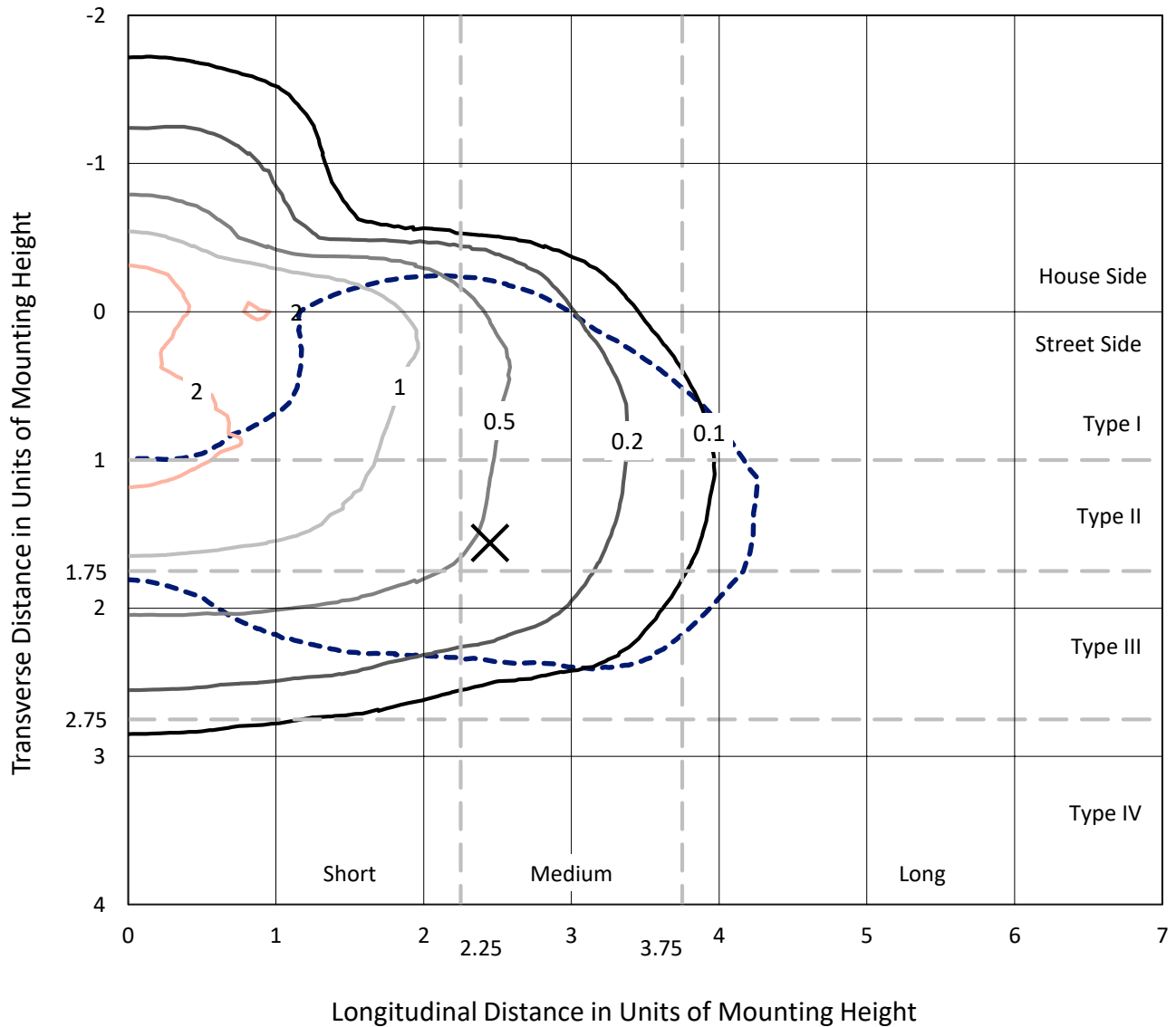
Input Watts (W): 20.09
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

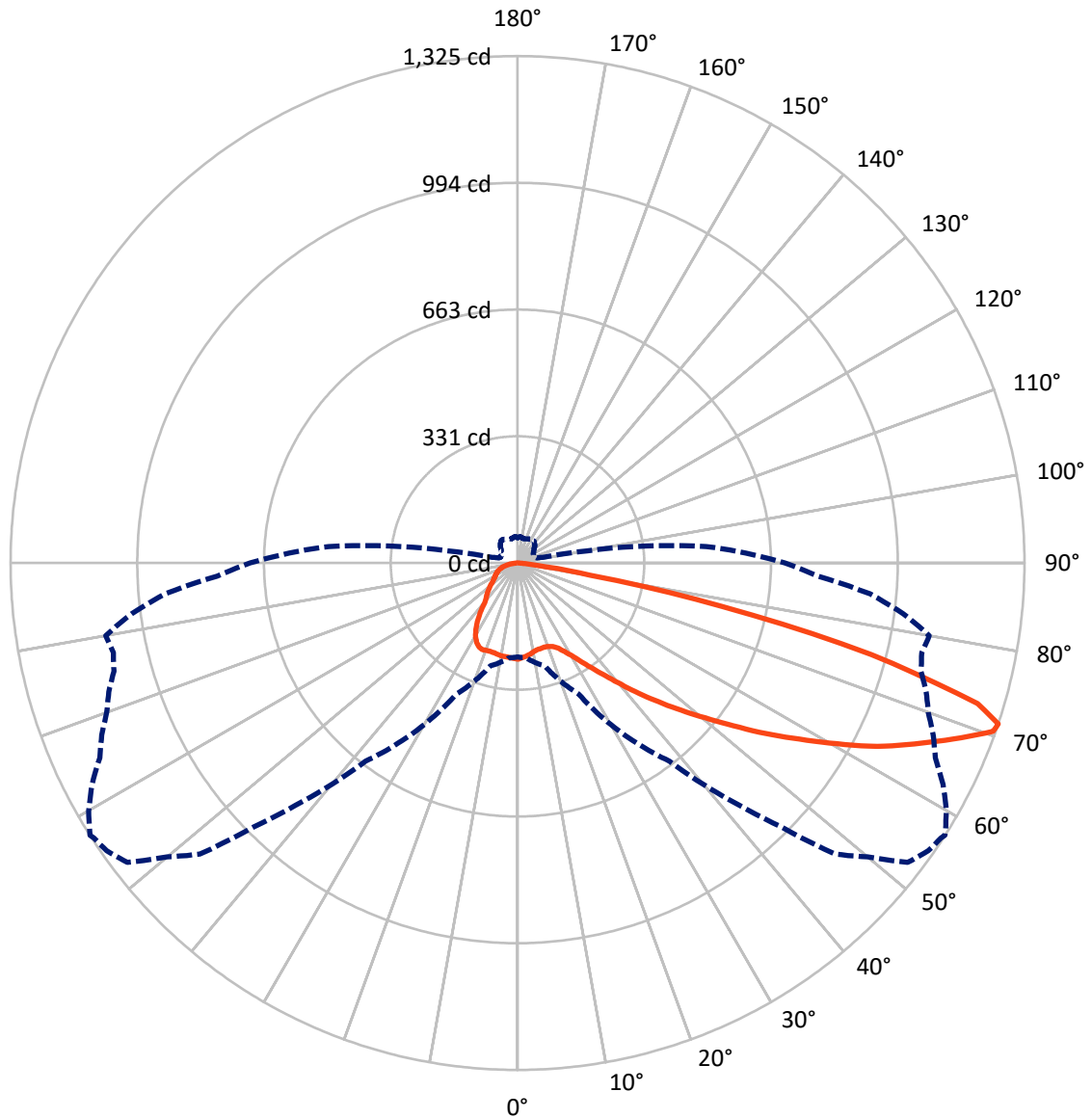
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	423.7	0.0	423.7
	% Fixture	21.8	0.0	21.8
Street Side	Lumens	1522.3	0.0	1522.3
	% Fixture	78.2	0.0	78.2
Total	Lumens	1946.0	0.0	1946.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.7	1.2
10°-20°	68.2	3.5
20°-30°	113.2	5.8
30°-40°	180.2	9.3
40°-50°	292.7	15.0
50°-60°	438.8	22.6
60°-70°	523.5	26.9
70°-80°	282.7	14.5
80°-90°	23.0	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	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°	1946.0	100.0
0°-180°	1946.0	100.0



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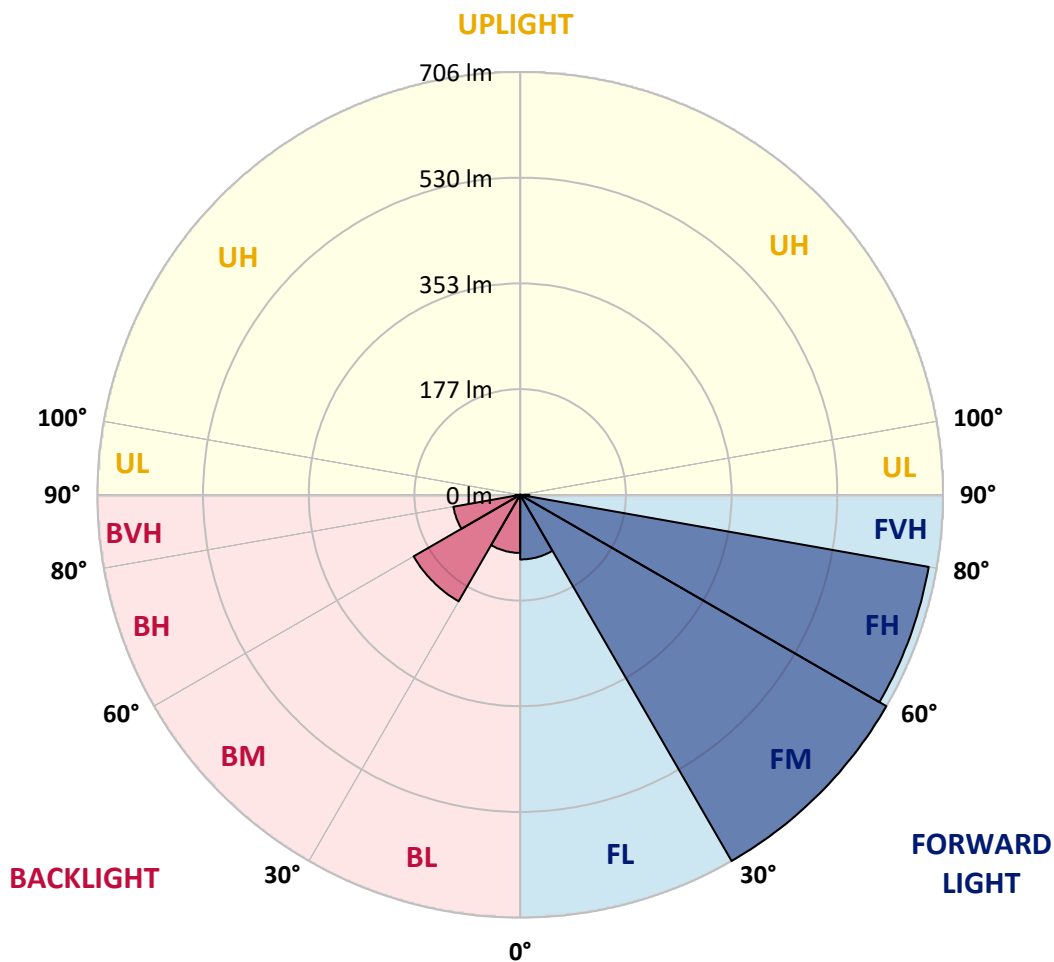
CATALOG NUMBER: ISS-AF-350-LED-E1-T3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	108.0	5.5			
FM	(30°-60°)	706.3	36.3			
FH	(60°-80°)	693.0	35.6			G1/1800
FVH	(80°-90°)	15.2	0.8			G1/100
BL	(0°-30°)	97.0	5.0	B0/110		
BM	(30°-60°)	205.4	10.6	B0/220		
BH	(60°-80°)	113.3	5.8	B1/500		G1/500
BVH	(80°-90°)	7.9	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4
2.5°	251.4	250.8	250.1	250.1	250.1	249.5	247.5	248.2	250.1	248.8	250.8
5°	250.8	249.5	248.8	248.8	248.8	246.9	246.3	245.6	249.5	246.3	248.8
7.5°	243.7	243.7	242.4	243.7	245.0	243.0	241.7	242.4	245.6	242.4	245.6
10°	238.5	237.2	236.6	236.6	237.9	235.3	234.0	235.3	239.2	235.3	239.8
12.5°	236.6	237.2	235.3	235.3	234.7	231.5	231.5	231.5	234.7	231.5	235.3
15°	239.8	239.2	237.2	236.0	234.0	231.5	230.8	231.5	234.0	230.2	234.7
17.5°	244.3	244.3	241.1	237.9	236.0	233.4	233.4	232.1	234.0	231.5	234.7
20°	255.9	254.0	249.5	244.3	239.2	237.9	235.3	235.3	236.6	234.0	236.0
22.5°	275.8	273.9	266.2	256.5	248.2	245.0	243.7	243.0	241.7	240.5	240.5
25°	302.2	299.0	290.0	278.4	264.3	261.7	259.1	257.2	252.7	252.7	249.5
27.5°	330.5	327.3	317.6	304.8	287.4	283.5	280.3	277.8	270.0	270.0	264.3
30°	362.6	358.8	347.2	333.0	313.1	311.8	307.3	303.5	293.2	292.5	284.8
32.5°	399.9	394.8	383.2	364.6	343.3	344.0	336.9	334.3	320.8	321.5	311.2
35°	442.4	436.6	425.0	400.6	378.7	380.6	374.2	369.7	353.0	353.0	342.0
37.5°	487.4	487.4	472.6	444.3	417.9	422.4	414.7	410.2	393.5	396.1	378.7
40°	537.5	540.7	524.6	492.5	465.5	467.4	461.6	456.5	436.6	441.1	422.4
42.5°	590.2	596.0	581.9	548.4	518.2	524.6	515.0	509.9	488.6	498.3	476.4
45°	666.7	668.0	641.7	609.5	584.4	590.2	576.7	574.8	548.4	558.7	536.9
47.5°	715.0	711.7	692.5	673.2	658.4	670.0	657.7	654.5	624.3	631.4	600.5
50°	747.8	749.7	734.9	733.0	735.5	757.4	755.5	749.0	713.0	707.9	669.3
52.5°	777.3	769.0	766.4	784.4	812.0	837.8	848.1	839.7	800.5	786.3	749.0
55°	772.2	760.0	773.5	817.2	871.8	911.7	913.0	907.2	871.8	866.1	825.5
57.5°	737.5	740.0	767.7	830.0	922.6	963.8	970.9	963.8	934.9	940.0	906.6
60°	689.2	694.4	738.1	818.5	963.1	998.5	1001.7	1010.1	990.8	1004.3	981.1
62.5°	617.2	624.3	680.2	789.5	934.9	987.6	1017.1	1036.4	1032.6	1063.4	1051.2
65°	567.1	567.1	621.7	756.1	907.2	976.6	1021.0	1057.0	1062.2	1111.0	1106.5
67.5°	473.9	477.1	524.0	662.9	873.8	952.2	1019.1	1080.2	1111.0	1188.2	1192.0
70°	327.9	330.5	361.3	473.2	706.0	772.8	871.2	970.9	1063.4	1179.8	1240.3
71°	245.6	248.8	279.0	377.4	597.9	653.2	755.5	859.0	975.4	1126.4	1194.6
72.5°	120.2	122.2	151.7	242.4	416.0	486.7	545.9	644.9	768.3	941.3	1037.7
75°	55.9	56.6	63.0	87.4	158.8	189.0	215.4	279.0	355.6	507.3	624.3
77.5°	41.1	41.1	45.0	57.2	82.3	83.6	82.3	84.2	101.6	145.3	218.6
80°	30.2	30.2	32.8	38.6	54.7	54.7	52.7	53.4	51.4	53.4	60.4
82.5°	19.9	19.9	21.2	23.1	33.4	33.4	32.1	32.1	30.9	30.2	32.8
85°	11.6	12.2	12.9	10.9	14.1	13.5	12.2	13.5	12.9	11.6	14.1
87.5°	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.6	0.0	0.6
90°	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):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4
2.5°	248.2	250.1	250.1	247.5	249.5	247.5	248.8	246.9	248.8	245.6	249.5
5°	246.3	248.2	248.2	244.3	248.2	244.3	247.5	243.0	247.5	242.4	247.5
7.5°	241.1	245.6	245.6	240.5	245.0	241.1	245.0	240.5	244.3	238.5	245.0
10°	235.3	239.8	240.5	235.3	240.5	236.0	241.7	236.0	241.7	235.3	242.4
12.5°	231.5	236.6	237.9	232.1	238.5	232.7	239.8	233.4	239.8	232.7	241.1
15°	230.8	235.3	236.6	231.5	237.2	230.8	239.2	231.5	239.8	232.1	241.7
17.5°	231.5	235.3	236.6	230.8	236.6	231.5	238.5	232.1	239.8	232.7	241.7
20°	233.4	236.0	236.0	232.7	237.2	232.7	238.5	232.1	240.5	234.0	242.4
22.5°	239.2	239.8	239.8	237.2	239.8	236.6	241.1	236.6	242.4	237.2	245.0
25°	248.8	248.2	246.9	246.3	246.9	245.0	247.5	244.3	250.1	245.6	253.3
27.5°	265.5	263.0	261.7	261.7	261.0	261.7	261.7	260.4	263.0	261.7	266.8
30°	286.1	281.6	279.7	281.6	279.0	281.6	281.0	280.3	282.9	281.6	286.1
32.5°	313.1	305.4	304.1	308.0	302.8	307.3	303.5	305.4	307.3	308.6	311.2
35°	344.6	335.6	334.3	338.2	332.4	338.8	334.3	336.9	338.2	341.4	343.3
37.5°	381.9	371.0	369.1	374.2	366.5	373.6	367.1	374.8	372.9	377.4	379.3
40°	426.9	414.1	409.6	416.6	407.6	413.4	407.0	415.3	413.4	422.4	424.3
42.5°	482.2	463.6	459.1	466.1	452.6	454.6	449.4	459.1	457.8	470.0	471.9
45°	539.4	516.9	510.5	517.6	502.1	506.0	498.3	508.6	507.9	517.6	525.3
47.5°	603.1	575.4	567.1	574.8	556.2	560.7	552.9	563.9	564.5	575.4	583.2
50°	669.3	640.4	629.4	636.5	619.2	622.4	614.7	628.2	627.5	642.3	648.1
52.5°	741.3	711.7	703.4	706.6	686.0	689.9	683.5	700.2	696.3	705.3	716.9
55°	821.0	787.0	777.3	787.0	762.5	767.7	759.3	774.8	768.3	779.9	783.1
57.5°	902.7	869.3	861.6	868.6	845.5	849.3	838.4	851.3	846.1	853.8	859.0
60°	989.5	959.3	951.6	959.3	936.8	937.4	918.8	932.3	924.6	934.2	932.3
62.5°	1072.4	1046.7	1044.8	1055.7	1027.4	1024.2	1001.7	1011.4	1000.4	1006.9	999.1
65°	1143.2	1128.4	1131.0	1140.0	1114.9	1107.2	1081.4	1086.6	1070.5	1070.5	1060.9
67.5°	1235.8	1219.7	1219.7	1227.4	1195.9	1176.0	1140.6	1136.1	1109.7	1104.6	1082.1
70°	1312.9	1317.4	1312.3	1318.7	1281.4	1240.9	1194.0	1171.5	1136.7	1120.0	1093.7
71°	1285.3	1311.0	1320.0	1325.1	1294.3	1253.8	1204.9	1176.0	1142.5	1120.0	1091.7
72.5°	1159.9	1222.2	1257.6	1257.6	1261.5	1235.8	1188.8	1157.3	1119.4	1089.8	1063.4
75°	812.7	914.3	959.9	954.8	988.2	999.8	1003.6	990.1	968.9	926.5	907.8
77.5°	362.0	477.1	545.9	546.5	582.5	614.0	639.1	665.5	655.8	635.2	633.9
80°	82.3	149.2	191.0	192.9	225.7	254.6	272.0	298.3	301.5	272.0	255.3
82.5°	35.4	41.8	47.6	46.9	57.9	69.4	82.3	89.4	86.2	71.4	67.5
85°	14.8	19.3	20.6	19.3	23.8	26.4	30.9	31.5	36.6	32.8	34.7
87.5°	0.0	0.6	0.6	0.0	1.3	0.0	1.3	0.6	3.2	1.3	3.9
90°	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):

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4
2.5°	246.9	250.1	246.9	250.1	248.2	250.1	249.5	250.1	246.9	250.1	246.3
5°	242.4	247.5	243.0	246.9	243.0	247.5	247.5	247.5	243.0	248.2	243.7
7.5°	238.5	244.3	238.5	244.3	240.5	245.0	245.0	246.9	241.7	247.5	241.1
10°	234.7	241.7	234.7	243.0	236.6	243.7	244.3	245.6	238.5	246.3	239.8
12.5°	232.7	241.7	233.4	241.7	234.0	243.7	244.3	245.6	237.9	247.5	239.2
15°	232.7	242.4	233.4	242.4	234.0	243.7	245.0	246.3	237.9	248.2	239.2
17.5°	232.7	242.4	234.7	243.0	235.3	244.3	245.6	246.9	239.2	248.2	240.5
20°	234.7	243.7	236.0	245.0	237.2	246.3	246.9	248.8	240.5	248.8	241.7
22.5°	239.2	246.9	240.5	248.8	243.0	250.1	250.8	252.7	246.3	253.3	247.5
25°	246.9	255.3	250.1	256.5	253.3	259.1	260.4	260.4	257.8	262.3	260.4
27.5°	263.0	269.4	265.5	271.3	269.4	273.9	273.9	274.5	276.5	277.8	279.7
30°	283.5	288.0	286.8	290.0	290.6	293.2	293.2	297.0	304.8	297.0	296.4
32.5°	311.2	313.8	314.4	315.7	318.3	320.2	322.8	327.3	333.7	315.7	309.9
35°	345.3	345.9	347.8	349.8	354.3	355.6	363.9	360.7	360.7	332.4	320.2
37.5°	382.6	382.6	387.7	387.7	398.6	399.3	407.6	390.9	381.3	344.6	326.6
40°	429.5	428.8	434.6	435.9	450.7	451.4	450.1	413.4	392.8	347.8	323.4
42.5°	479.0	480.9	488.6	491.2	502.1	506.0	489.9	428.8	398.0	345.9	312.5
45°	533.0	536.9	546.5	553.6	565.2	560.7	522.1	435.9	392.2	334.3	291.3
47.5°	592.2	596.0	603.7	617.2	622.4	617.2	548.4	438.5	383.2	316.3	260.4
50°	652.0	658.4	669.3	688.6	691.2	678.3	580.6	448.1	376.1	297.7	225.0
52.5°	719.5	725.9	738.8	770.9	764.5	738.1	618.5	466.1	378.1	286.1	194.8
55°	790.8	799.8	824.9	856.4	842.3	801.1	660.3	492.5	385.8	273.9	161.4
57.5°	866.1	875.7	908.5	945.8	918.1	862.8	702.7	513.1	389.6	248.8	124.7
60°	940.6	954.1	996.6	1027.4	984.4	915.6	740.7	526.6	379.3	201.2	96.4
62.5°	1008.8	1030.7	1078.2	1094.9	1026.1	949.0	761.3	516.9	337.5	138.9	77.8
65°	1057.0	1085.3	1116.2	1114.2	1018.4	938.1	745.8	472.6	251.4	91.9	66.2
67.5°	1077.6	1103.9	1111.0	1078.2	963.1	889.8	690.5	380.6	144.7	68.8	57.9
70°	1085.3	1107.8	1067.9	988.9	855.1	771.5	564.5	242.4	79.1	55.9	50.2
71°	1082.1	1093.0	1017.1	924.6	786.3	698.9	495.1	184.5	67.5	52.1	47.6
72.5°	1038.4	1022.9	905.9	803.0	666.7	578.0	385.1	116.4	55.3	46.9	44.4
75°	848.7	779.3	666.7	569.7	453.9	363.3	209.0	59.8	44.4	40.5	38.6
77.5°	554.9	494.4	401.8	326.6	248.2	188.4	85.5	41.1	35.4	34.1	33.4
80°	198.0	158.8	120.2	105.4	79.7	65.6	41.8	31.5	27.6	28.3	27.6
82.5°	55.9	51.4	44.4	41.1	36.0	35.4	27.0	23.8	21.9	23.1	22.5
85°	27.6	23.8	17.4	16.7	12.9	14.8	13.5	16.1	14.1	14.8	13.5
87.5°	1.9	2.6	0.6	1.9	0.0	1.9	2.6	3.2	0.6	2.6	1.9
90°	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):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°
0°	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4	251.4
2.5°	250.8	248.2	251.4	248.2	251.4	249.5	251.4	249.5	251.4	252.7	252.7
5°	249.5	245.0	250.8	247.5	251.4	248.2	250.8	248.8	252.0	253.3	254.6
7.5°	248.8	244.3	250.1	245.6	251.4	246.9	250.8	248.2	252.0	253.3	255.9
10°	248.2	242.4	250.1	243.7	250.8	246.3	250.8	246.9	251.4	252.7	253.3
12.5°	248.2	241.7	250.1	243.0	250.8	244.3	250.1	244.3	250.8	250.1	248.2
15°	248.8	240.5	250.1	241.7	250.1	242.4	249.5	241.7	248.2	246.3	245.0
17.5°	248.8	240.5	249.5	241.1	248.8	241.7	247.5	240.5	246.3	245.6	243.7
20°	250.1	241.7	249.5	243.7	249.5	242.4	246.9	240.5	245.0	241.1	233.4
22.5°	254.0	248.2	254.0	248.2	250.8	244.3	246.3	238.5	237.9	231.5	219.2
25°	263.0	260.4	259.1	252.0	250.1	241.7	239.2	230.2	227.0	217.3	200.6
27.5°	274.5	268.8	261.0	252.7	244.3	234.0	227.0	219.9	212.8	200.6	179.4
30°	282.3	273.9	257.8	246.3	230.8	222.5	210.2	202.5	192.2	176.8	156.2
32.5°	287.4	274.5	250.1	236.6	216.0	205.1	189.0	180.7	165.9	151.1	136.3
35°	288.7	272.0	239.8	225.0	198.0	185.8	164.6	155.6	141.4	131.2	125.4
37.5°	283.5	263.0	223.7	204.5	174.9	160.7	140.8	134.4	126.0	122.2	119.6
40°	273.3	245.6	198.7	176.2	145.9	135.0	124.7	124.7	120.2	118.3	113.8
42.5°	254.6	219.9	166.5	144.7	124.1	122.2	116.4	118.9	115.7	114.4	108.0
45°	225.7	183.2	134.4	121.5	111.9	113.2	109.3	111.9	109.9	109.3	101.6
47.5°	188.4	145.9	113.2	108.7	102.2	104.2	100.9	104.2	102.2	102.9	97.1
50°	150.5	118.3	100.3	97.7	93.2	94.5	92.6	95.8	95.2	97.7	94.5
52.5°	120.2	100.9	89.4	87.4	84.9	85.5	84.9	88.1	88.7	93.9	93.9
55°	99.7	86.8	80.4	79.7	77.2	77.8	78.4	81.7	84.2	90.7	93.9
57.5°	85.5	77.8	73.3	72.7	71.4	72.0	73.3	77.2	79.7	88.1	95.2
60°	75.2	70.7	67.5	67.5	66.2	67.5	68.8	72.7	75.9	85.5	92.6
62.5°	67.5	64.3	62.4	63.0	62.4	63.7	64.9	68.8	72.7	81.7	88.7
65°	60.4	58.5	57.2	57.9	57.9	59.8	61.1	64.9	68.2	76.5	85.5
67.5°	54.7	53.4	52.7	53.4	54.0	55.9	57.9	60.4	63.0	70.7	81.0
70°	50.2	48.9	48.9	48.9	49.5	51.4	54.0	55.3	57.9	66.2	75.9
71°	47.6	46.9	46.9	46.9	47.6	49.5	52.1	53.4	55.9	64.3	73.3
72.5°	44.4	44.4	45.0	44.4	45.6	46.3	48.9	50.2	53.4	61.7	70.1
75°	39.2	39.2	39.9	39.9	41.1	41.1	43.1	44.4	48.2	55.3	63.0
77.5°	34.7	34.7	36.0	35.4	35.4	34.1	36.6	37.9	41.1	48.2	55.9
80°	29.6	28.9	30.2	28.3	27.6	26.4	28.3	30.2	35.4	39.9	41.1
82.5°	23.1	21.2	21.9	19.9	19.9	18.6	20.6	21.2	24.4	28.9	31.5
85°	14.1	11.6	12.9	10.9	12.2	10.9	11.6	12.2	14.8	18.0	17.4
87.5°	3.2	1.9	2.6	0.6	1.9	0.0	1.9	0.6	1.9	0.6	0.0
90°	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):

	155°	165°	175°	180°
0°	251.4	251.4	251.4	251.4
2.5°	254.0	253.3	254.0	253.3
5°	257.2	257.2	257.8	258.5
7.5°	257.8	259.1	260.4	259.8
10°	253.3	252.0	253.3	252.0
12.5°	246.3	245.0	246.3	246.3
15°	245.6	245.0	245.6	245.6
17.5°	241.1	237.9	236.6	236.0
20°	228.2	222.5	221.2	219.2
22.5°	210.2	201.9	199.3	197.4
25°	188.4	176.8	172.3	169.7
27.5°	164.6	153.0	148.5	148.5
30°	145.9	136.9	132.4	132.4
32.5°	132.4	127.3	124.1	124.7
35°	121.5	118.3	116.4	117.0
37.5°	114.4	109.3	104.8	104.8
40°	107.4	100.9	95.2	95.2
42.5°	100.9	94.5	90.7	90.0
45°	94.5	90.0	86.8	86.2
47.5°	91.3	87.4	84.2	83.6
50°	90.0	86.2	81.7	81.7
52.5°	91.3	88.1	79.7	79.7
55°	93.9	91.9	79.7	78.4
57.5°	91.3	88.1	80.4	78.4
60°	85.5	80.4	79.1	77.8
62.5°	81.7	76.5	79.1	78.4
65°	78.4	74.6	80.4	79.1
67.5°	75.2	71.4	80.4	77.8
70°	71.4	67.5	73.3	68.8
71°	69.4	64.9	69.4	65.6
72.5°	66.2	61.1	62.4	59.8
75°	59.8	54.7	53.4	52.7
77.5°	49.5	43.7	41.8	41.1
80°	37.9	34.1	34.1	32.1
82.5°	28.3	25.1	24.4	21.2
85°	14.8	11.6	9.6	9.6
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)