

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: P227714

Luminaire Tested: **ISS-AF-350-LED-E1-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227714
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-T3-7030
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2111 lumens
Efficiency: N/A
Efficacy: 105.1 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

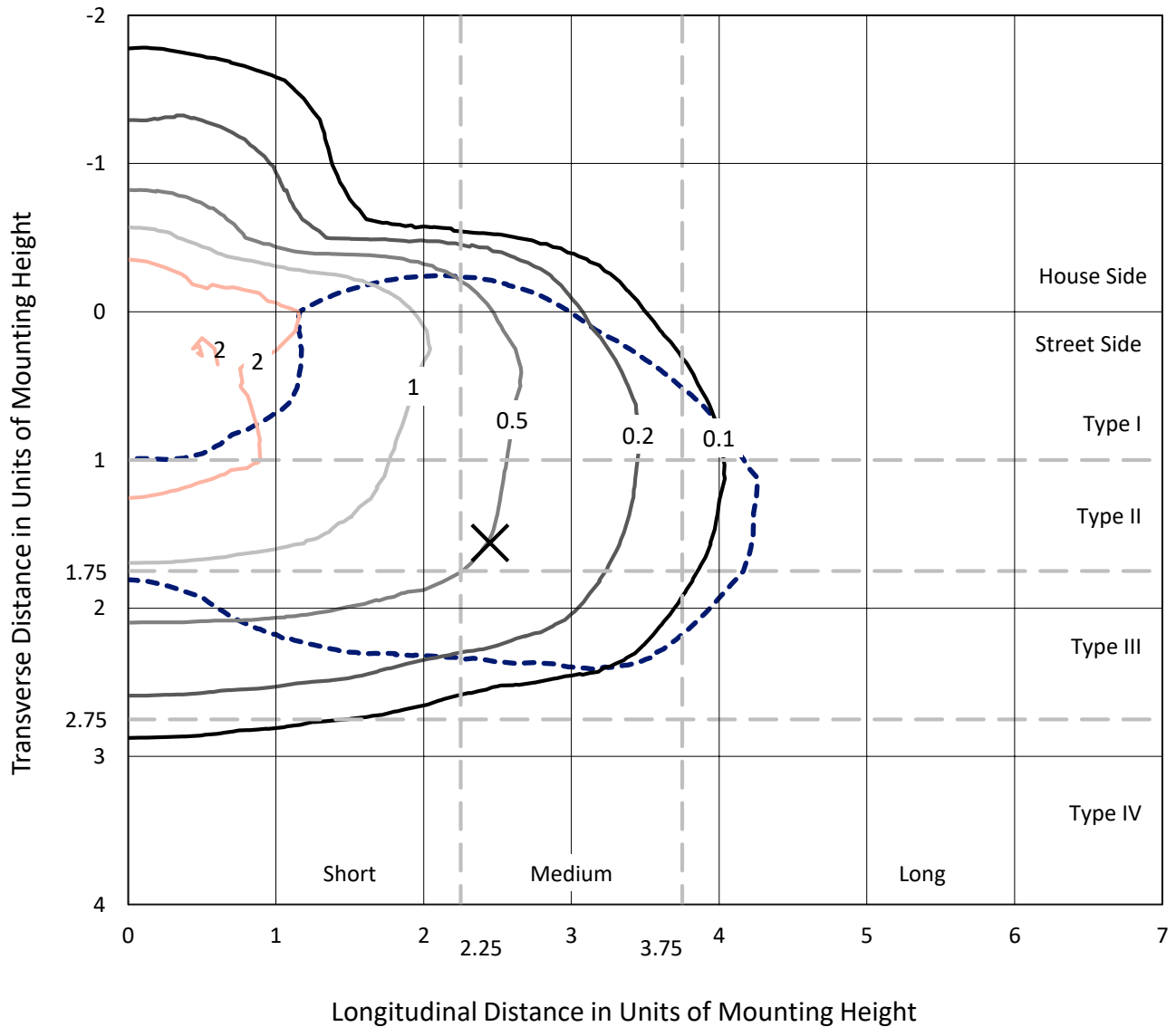
Input Watts (W): 20.09
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

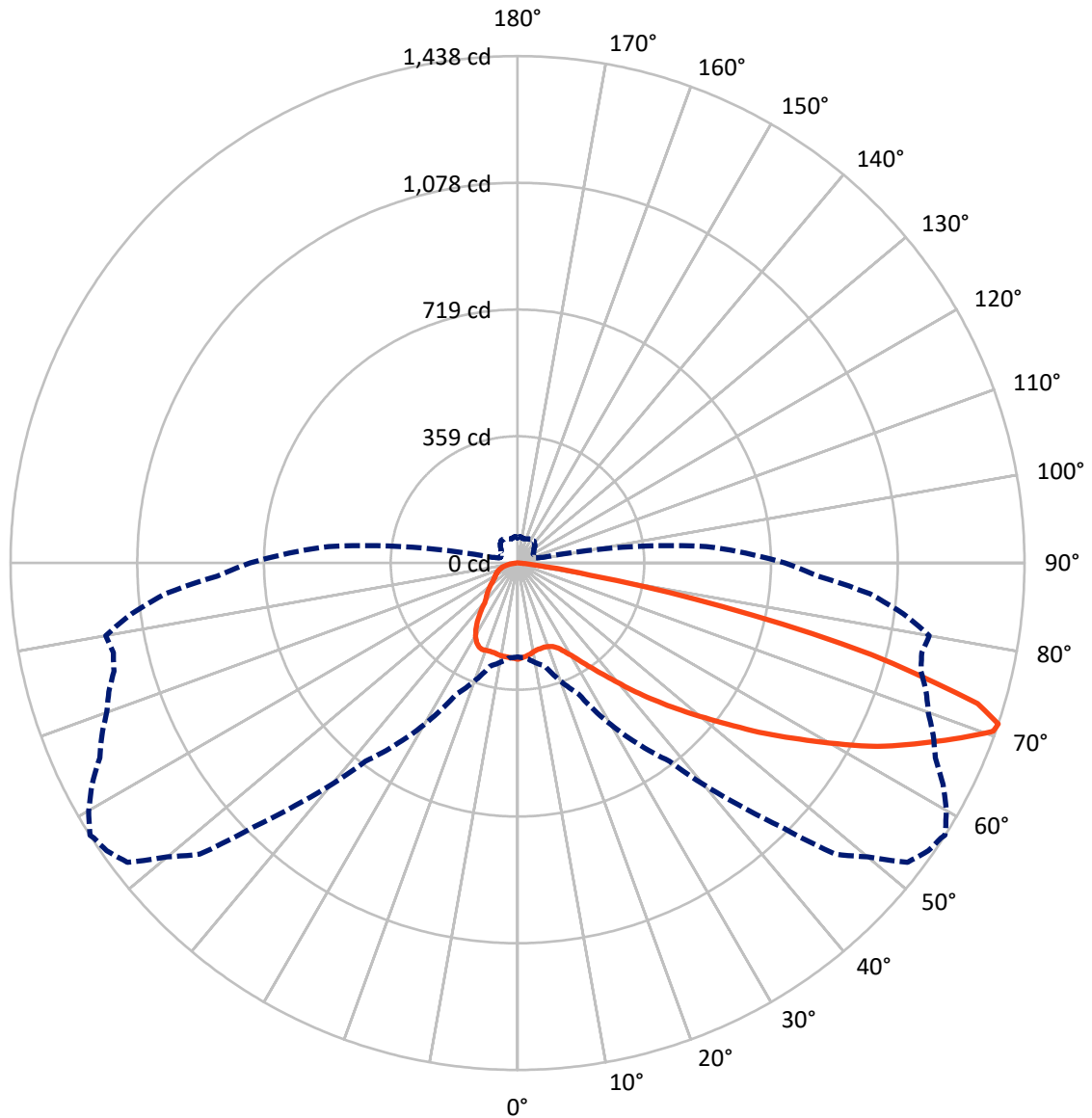
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.8 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	459.6	0.0	459.6
	% Fixture	21.8	0.0	21.8
Street Side	Lumens	1651.4	0.0	1651.4
	% Fixture	78.2	0.0	78.2
Total	Lumens	2111.0	0.0	2111.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.7	1.2
10°-20°	74.0	3.5
20°-30°	122.8	5.8
30°-40°	195.4	9.3
40°-50°	317.5	15.0
50°-60°	476.0	22.6
60°-70°	567.9	26.9
70°-80°	306.7	14.5
80°-90°	25.0	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°	2111.0	100.0
0°-180°	2111.0	100.0



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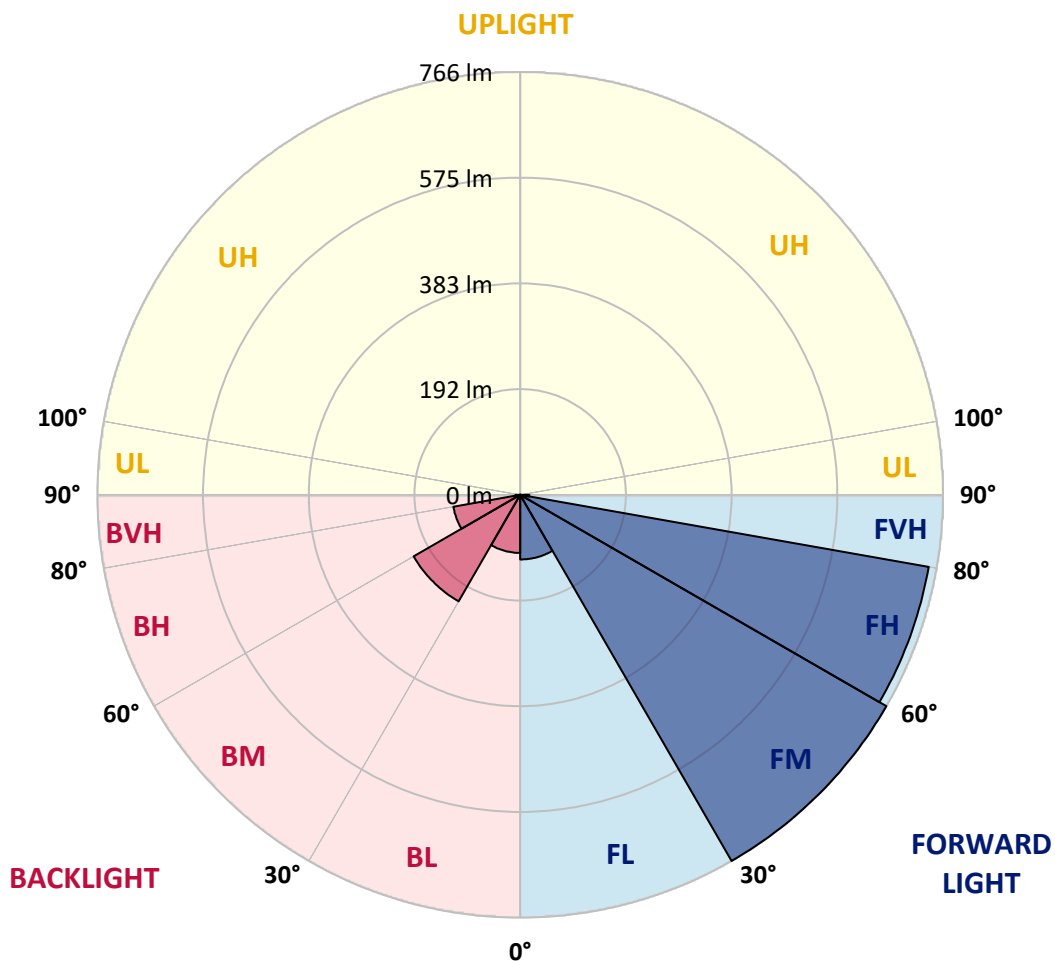
CATALOG NUMBER: ISS-AF-350-LED-E1-T3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	117.1	5.5			
FM	(30°-60°)	766.2	36.3			
FH	(60°-80°)	751.7	35.6			G1/1800
FVH	(80°-90°)	16.4	0.8			G1/100
BL	(0°-30°)	105.3	5.0	B0/110		
BM	(30°-60°)	222.8	10.6	B1/1000		
BH	(60°-80°)	122.9	5.8	B1/500		G1/500
BVH	(80°-90°)	8.5	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°	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7
2.5°	272.7	272.0	271.3	271.3	271.3	270.6	268.5	269.2	271.3	269.9	272.0
5°	272.0	270.6	269.9	269.9	269.9	267.8	267.1	266.4	270.6	267.1	269.9
7.5°	264.3	264.3	262.9	264.3	265.7	263.6	262.2	262.9	266.4	262.9	266.4
10°	258.8	257.4	256.7	256.7	258.1	255.3	253.9	255.3	259.5	255.3	260.2
12.5°	256.7	257.4	255.3	255.3	254.6	251.1	251.1	251.1	254.6	251.1	255.3
15°	260.2	259.5	257.4	256.0	253.9	251.1	250.4	251.1	253.9	249.7	254.6
17.5°	265.0	265.0	261.5	258.1	256.0	253.2	253.2	251.8	253.9	251.1	254.6
20°	277.6	275.5	270.6	265.0	259.5	258.1	255.3	255.3	256.7	253.9	256.0
22.5°	299.2	297.1	288.8	278.3	269.2	265.7	264.3	263.6	262.2	260.9	260.9
25°	327.8	324.3	314.6	302.0	286.7	283.9	281.1	279.0	274.1	274.1	270.6
27.5°	358.5	355.0	344.5	330.6	311.8	307.6	304.1	301.3	292.9	292.9	286.7
30°	393.4	389.2	376.6	361.3	339.7	338.3	333.4	329.2	318.0	317.3	309.0
32.5°	433.8	428.2	415.7	395.5	372.4	373.1	365.5	362.7	348.0	348.7	337.6
35°	479.9	473.6	461.0	434.5	410.8	412.9	405.9	401.0	382.9	382.9	371.1
37.5°	528.7	528.7	512.6	481.9	453.4	458.2	449.9	445.0	426.8	429.6	410.8
40°	583.1	586.6	569.1	534.3	505.0	507.1	500.8	495.2	473.6	478.5	458.2
42.5°	640.3	646.6	631.2	594.9	562.2	569.1	558.7	553.1	530.1	540.5	516.8
45°	723.3	724.7	696.1	661.2	634.0	640.3	625.6	623.5	594.9	606.1	582.4
47.5°	775.6	772.1	751.2	730.2	714.2	726.8	713.5	710.0	677.2	684.9	651.4
50°	811.2	813.2	797.2	795.1	797.9	821.6	819.5	812.5	773.5	767.9	726.1
52.5°	843.2	834.2	831.4	850.9	880.9	908.8	920.0	910.9	868.3	853.0	812.5
55°	837.7	824.4	839.1	886.5	945.8	989.0	990.4	984.1	945.8	939.5	895.5
57.5°	800.0	802.8	832.8	900.4	1000.9	1045.5	1053.2	1045.5	1014.1	1019.7	983.4
60°	747.7	753.3	800.7	887.9	1044.8	1083.2	1086.7	1095.7	1074.8	1089.4	1064.3
62.5°	669.6	677.2	737.9	856.5	1014.1	1071.3	1103.4	1124.3	1120.1	1153.6	1140.4
65°	615.2	615.2	674.4	820.2	984.1	1059.5	1107.6	1146.6	1152.2	1205.2	1200.3
67.5°	514.0	517.5	568.4	719.1	947.9	1032.9	1105.5	1171.7	1205.2	1288.9	1293.1
70°	355.7	358.5	392.0	513.3	765.8	838.4	945.1	1053.2	1153.6	1279.9	1345.4
71°	266.4	269.9	302.7	409.4	648.6	708.6	819.5	931.8	1058.1	1222.0	1295.9
72.5°	130.4	132.5	164.6	262.9	451.3	528.0	592.1	699.6	833.5	1021.1	1125.7
75°	60.7	61.4	68.4	94.9	172.3	205.1	233.7	302.7	385.7	550.3	677.2
77.5°	44.6	44.6	48.8	62.1	89.3	90.7	89.3	91.4	110.2	157.6	237.1
80°	32.8	32.8	35.6	41.8	59.3	59.3	57.2	57.9	55.8	57.9	65.6
82.5°	21.6	21.6	23.0	25.1	36.3	36.3	34.9	34.9	33.5	32.8	35.6
85°	12.6	13.3	13.9	11.9	15.3	14.6	13.3	14.6	13.9	12.6	15.3
87.5°	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.7	0.0	0.7
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°	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7
2.5°	269.2	271.3	271.3	268.5	270.6	268.5	269.9	267.8	269.9	266.4	270.6
5°	267.1	269.2	269.2	265.0	269.2	265.0	268.5	263.6	268.5	262.9	268.5
7.5°	261.5	266.4	266.4	260.9	265.7	261.5	265.7	260.9	265.0	258.8	265.7
10°	255.3	260.2	260.9	255.3	260.9	256.0	262.2	256.0	262.2	255.3	262.9
12.5°	251.1	256.7	258.1	251.8	258.8	252.5	260.2	253.2	260.2	252.5	261.5
15°	250.4	255.3	256.7	251.1	257.4	250.4	259.5	251.1	260.2	251.8	262.2
17.5°	251.1	255.3	256.7	250.4	256.7	251.1	258.8	251.8	260.2	252.5	262.2
20°	253.2	256.0	256.0	252.5	257.4	252.5	258.8	251.8	260.9	253.9	262.9
22.5°	259.5	260.2	260.2	257.4	260.2	256.7	261.5	256.7	262.9	257.4	265.7
25°	269.9	269.2	267.8	267.1	267.8	265.7	268.5	265.0	271.3	266.4	274.8
27.5°	288.1	285.3	283.9	283.9	283.2	283.9	283.9	282.5	285.3	283.9	289.4
30°	310.4	305.5	303.4	305.5	302.7	305.5	304.8	304.1	306.9	305.5	310.4
32.5°	339.7	331.3	329.9	334.1	328.5	333.4	329.2	331.3	333.4	334.8	337.6
35°	373.8	364.1	362.7	366.9	360.6	367.6	362.7	365.5	366.9	370.4	372.4
37.5°	414.3	402.4	400.3	405.9	397.6	405.2	398.3	406.6	404.5	409.4	411.5
40°	463.1	449.2	444.3	452.0	442.2	448.5	441.5	450.6	448.5	458.2	460.3
42.5°	523.1	502.9	498.0	505.7	491.0	493.1	487.5	498.0	496.6	509.8	511.9
45°	585.2	560.8	553.8	561.5	544.7	548.9	540.5	551.7	551.0	561.5	569.8
47.5°	654.2	624.2	615.2	623.5	603.3	608.2	599.8	611.7	612.4	624.2	632.6
50°	726.1	694.7	682.8	690.5	671.7	675.1	666.8	681.4	680.7	696.8	703.0
52.5°	804.2	772.1	763.0	766.5	744.2	748.4	741.4	759.5	755.4	765.1	777.7
55°	890.7	853.7	843.2	853.7	827.2	832.8	823.7	840.4	833.5	846.0	849.5
57.5°	979.2	943.0	934.6	942.3	917.2	921.4	909.5	923.4	917.9	926.2	931.8
60°	1073.4	1040.6	1032.2	1040.6	1016.2	1016.9	996.7	1011.3	1003.0	1013.4	1011.3
62.5°	1163.4	1135.5	1133.4	1145.2	1114.6	1111.1	1086.7	1097.1	1085.3	1092.2	1083.9
65°	1240.1	1224.1	1226.8	1236.6	1209.4	1201.0	1173.1	1178.7	1161.3	1161.3	1150.8
67.5°	1340.5	1323.1	1323.1	1331.5	1297.3	1275.7	1237.3	1232.4	1203.8	1198.2	1173.8
70°	1424.2	1429.1	1423.5	1430.5	1390.1	1346.1	1295.2	1270.8	1233.1	1215.0	1186.4
71°	1394.2	1422.1	1431.9	1437.5	1404.0	1360.1	1307.1	1275.7	1239.4	1215.0	1184.3
72.5°	1258.2	1325.9	1364.2	1364.2	1368.4	1340.5	1289.6	1255.4	1214.3	1182.2	1153.6
75°	881.6	991.8	1041.3	1035.7	1072.0	1084.6	1088.7	1074.1	1051.1	1005.0	984.8
77.5°	392.7	517.5	592.1	592.8	631.9	666.1	693.3	721.9	711.4	689.1	687.7
80°	89.3	161.8	207.1	209.2	244.8	276.2	295.0	323.6	327.1	295.0	276.9
82.5°	38.4	45.3	51.6	50.9	62.8	75.3	89.3	96.9	93.5	77.4	73.2
85°	16.0	20.9	22.3	20.9	25.8	28.6	33.5	34.2	39.8	35.6	37.7
87.5°	0.0	0.7	0.7	0.0	1.4	0.0	1.4	0.7	3.5	1.4	4.2
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°	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7
2.5°	267.8	271.3	267.8	271.3	269.2	271.3	270.6	271.3	267.8	271.3	267.1
5°	262.9	268.5	263.6	267.8	263.6	268.5	268.5	268.5	263.6	269.2	264.3
7.5°	258.8	265.0	258.8	265.0	260.9	265.7	265.7	267.8	262.2	268.5	261.5
10°	254.6	262.2	254.6	263.6	256.7	264.3	265.0	266.4	258.8	267.1	260.2
12.5°	252.5	262.2	253.2	262.2	253.9	264.3	265.0	266.4	258.1	268.5	259.5
15°	252.5	262.9	253.2	262.9	253.9	264.3	265.7	267.1	258.1	269.2	259.5
17.5°	252.5	262.9	254.6	263.6	255.3	265.0	266.4	267.8	259.5	269.2	260.9
20°	254.6	264.3	256.0	265.7	257.4	267.1	267.8	269.9	260.9	269.9	262.2
22.5°	259.5	267.8	260.9	269.9	263.6	271.3	272.0	274.1	267.1	274.8	268.5
25°	267.8	276.9	271.3	278.3	274.8	281.1	282.5	282.5	279.7	284.6	282.5
27.5°	285.3	292.2	288.1	294.3	292.2	297.1	297.1	297.8	299.9	301.3	303.4
30°	307.6	312.5	311.1	314.6	315.3	318.0	318.0	322.2	330.6	322.2	321.5
32.5°	337.6	340.4	341.1	342.5	345.2	347.3	350.1	355.0	362.0	342.5	336.2
35°	374.5	375.2	377.3	379.4	384.3	385.7	394.8	391.3	391.3	360.6	347.3
37.5°	415.0	415.0	420.6	420.6	432.4	433.1	442.2	424.1	413.6	373.8	354.3
40°	465.9	465.2	471.5	472.9	488.9	489.6	488.2	448.5	426.2	377.3	350.8
42.5°	519.6	521.7	530.1	532.9	544.7	548.9	531.5	465.2	431.7	375.2	339.0
45°	578.2	582.4	592.8	600.5	613.1	608.2	566.3	472.9	425.5	362.7	316.0
47.5°	642.4	646.6	654.9	669.6	675.1	669.6	594.9	475.7	415.7	343.2	282.5
50°	707.2	714.2	726.1	747.0	749.8	735.8	629.8	486.1	408.0	322.9	244.1
52.5°	780.5	787.4	801.4	836.3	829.3	800.7	671.0	505.7	410.1	310.4	211.3
55°	857.9	867.6	894.8	929.0	913.7	869.0	716.3	534.3	418.5	297.1	175.1
57.5°	939.5	949.9	985.5	1026.0	996.0	936.0	762.3	556.6	422.7	269.9	135.3
60°	1020.4	1035.0	1081.1	1114.6	1067.8	993.2	803.5	571.2	411.5	218.3	104.6
62.5°	1094.3	1118.0	1169.7	1187.8	1113.2	1029.5	825.8	560.8	366.2	150.7	84.4
65°	1146.6	1177.3	1210.8	1208.7	1104.8	1017.6	809.1	512.6	272.7	99.7	71.8
67.5°	1169.0	1197.5	1205.2	1169.7	1044.8	965.3	749.1	412.9	156.9	74.6	62.8
70°	1177.3	1201.7	1158.5	1072.7	927.6	837.0	612.4	262.9	85.8	60.7	54.4
71°	1173.8	1185.7	1103.4	1003.0	853.0	758.1	537.0	200.2	73.2	56.5	51.6
72.5°	1126.4	1109.7	982.7	871.1	723.3	627.0	417.8	126.2	60.0	50.9	48.1
75°	920.7	845.3	723.3	618.0	492.4	394.1	226.7	64.9	48.1	43.9	41.8
77.5°	601.9	536.4	435.9	354.3	269.2	204.4	92.8	44.6	38.4	37.0	36.3
80°	214.8	172.3	130.4	114.4	86.5	71.1	45.3	34.2	30.0	30.7	30.0
82.5°	60.7	55.8	48.1	44.6	39.1	38.4	29.3	25.8	23.7	25.1	24.4
85°	30.0	25.8	18.8	18.1	13.9	16.0	14.6	17.4	15.3	16.0	14.6
87.5°	2.1	2.8	0.7	2.1	0.0	2.1	2.8	3.5	0.7	2.8	2.1
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°	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7	272.7
2.5°	272.0	269.2	272.7	269.2	272.7	270.6	272.7	270.6	272.7	274.1	274.1
5°	270.6	265.7	272.0	268.5	272.7	269.2	272.0	269.9	273.4	274.8	276.2
7.5°	269.9	265.0	271.3	266.4	272.7	267.8	272.0	269.2	273.4	274.8	277.6
10°	269.2	262.9	271.3	264.3	272.0	267.1	272.0	267.8	272.7	274.1	274.8
12.5°	269.2	262.2	271.3	263.6	272.0	265.0	271.3	265.0	272.0	271.3	269.2
15°	269.9	260.9	271.3	262.2	271.3	262.9	270.6	262.2	269.2	267.1	265.7
17.5°	269.9	260.9	270.6	261.5	269.9	262.2	268.5	260.9	267.1	266.4	264.3
20°	271.3	262.2	270.6	264.3	270.6	262.9	267.8	260.9	265.7	261.5	253.2
22.5°	275.5	269.2	275.5	269.2	272.0	265.0	267.1	258.8	258.1	251.1	237.8
25°	285.3	282.5	281.1	273.4	271.3	262.2	259.5	249.7	246.2	235.7	217.6
27.5°	297.8	291.5	283.2	274.1	265.0	253.9	246.2	238.5	230.9	217.6	194.6
30°	306.2	297.1	279.7	267.1	250.4	241.3	228.1	219.7	208.5	191.8	169.5
32.5°	311.8	297.8	271.3	256.7	234.3	222.5	205.1	196.0	179.9	163.9	147.9
35°	313.2	295.0	260.2	244.1	214.8	201.6	178.6	168.8	153.4	142.3	136.0
37.5°	307.6	285.3	242.7	221.8	189.7	174.4	152.7	145.8	136.7	132.5	129.7
40°	296.4	266.4	215.5	191.1	158.3	146.5	135.3	135.3	130.4	128.3	123.5
42.5°	276.2	238.5	180.6	156.9	134.6	132.5	126.2	129.0	125.5	124.1	117.2
45°	244.8	198.8	145.8	131.8	121.4	122.8	118.6	121.4	119.3	118.6	110.2
47.5°	204.4	158.3	122.8	117.9	110.9	113.0	109.5	113.0	110.9	111.6	105.3
50°	163.2	128.3	108.8	106.0	101.1	102.5	100.4	103.9	103.2	106.0	102.5
52.5°	130.4	109.5	96.9	94.9	92.1	92.8	92.1	95.6	96.3	101.8	101.8
55°	108.1	94.2	87.2	86.5	83.7	84.4	85.1	88.6	91.4	98.3	101.8
57.5°	92.8	84.4	79.5	78.8	77.4	78.1	79.5	83.7	86.5	95.6	103.2
60°	81.6	76.7	73.2	73.2	71.8	73.2	74.6	78.8	82.3	92.8	100.4
62.5°	73.2	69.7	67.7	68.4	67.7	69.0	70.4	74.6	78.8	88.6	96.3
65°	65.6	63.5	62.1	62.8	62.8	64.9	66.3	70.4	73.9	83.0	92.8
67.5°	59.3	57.9	57.2	57.9	58.6	60.7	62.8	65.6	68.4	76.7	87.9
70°	54.4	53.0	53.0	53.0	53.7	55.8	58.6	60.0	62.8	71.8	82.3
71°	51.6	50.9	50.9	50.9	51.6	53.7	56.5	57.9	60.7	69.7	79.5
72.5°	48.1	48.1	48.8	48.1	49.5	50.2	53.0	54.4	57.9	67.0	76.0
75°	42.5	42.5	43.2	43.2	44.6	44.6	46.7	48.1	52.3	60.0	68.4
77.5°	37.7	37.7	39.1	38.4	38.4	37.0	39.8	41.2	44.6	52.3	60.7
80°	32.1	31.4	32.8	30.7	30.0	28.6	30.7	32.8	38.4	43.2	44.6
82.5°	25.1	23.0	23.7	21.6	21.6	20.2	22.3	23.0	26.5	31.4	34.2
85°	15.3	12.6	13.9	11.9	13.3	11.9	12.6	13.3	16.0	19.5	18.8
87.5°	3.5	2.1	2.8	0.7	2.1	0.0	2.1	0.7	2.1	0.7	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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	155°	165°	175°	180°
0°	272.7	272.7	272.7	272.7
2.5°	275.5	274.8	275.5	274.8
5°	279.0	279.0	279.7	280.4
7.5°	279.7	281.1	282.5	281.8
10°	274.8	273.4	274.8	273.4
12.5°	267.1	265.7	267.1	267.1
15°	266.4	265.7	266.4	266.4
17.5°	261.5	258.1	256.7	256.0
20°	247.6	241.3	239.9	237.8
22.5°	228.1	219.0	216.2	214.1
25°	204.4	191.8	186.9	184.1
27.5°	178.6	166.0	161.1	161.1
30°	158.3	148.6	143.7	143.7
32.5°	143.7	138.1	134.6	135.3
35°	131.8	128.3	126.2	126.9
37.5°	124.1	118.6	113.7	113.7
40°	116.5	109.5	103.2	103.2
42.5°	109.5	102.5	98.3	97.6
45°	102.5	97.6	94.2	93.5
47.5°	99.0	94.9	91.4	90.7
50°	97.6	93.5	88.6	88.6
52.5°	99.0	95.6	86.5	86.5
55°	101.8	99.7	86.5	85.1
57.5°	99.0	95.6	87.2	85.1
60°	92.8	87.2	85.8	84.4
62.5°	88.6	83.0	85.8	85.1
65°	85.1	80.9	87.2	85.8
67.5°	81.6	77.4	87.2	84.4
70°	77.4	73.2	79.5	74.6
71°	75.3	70.4	75.3	71.1
72.5°	71.8	66.3	67.7	64.9
75°	64.9	59.3	57.9	57.2
77.5°	53.7	47.4	45.3	44.6
80°	41.2	37.0	37.0	34.9
82.5°	30.7	27.2	26.5	23.0
85°	16.0	12.6	10.5	10.5
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)