

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: P227579

Luminaire Tested: **ISS-AF-600-LED-E1-T2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29758)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-600-LED-E1-T2-8030
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3123 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

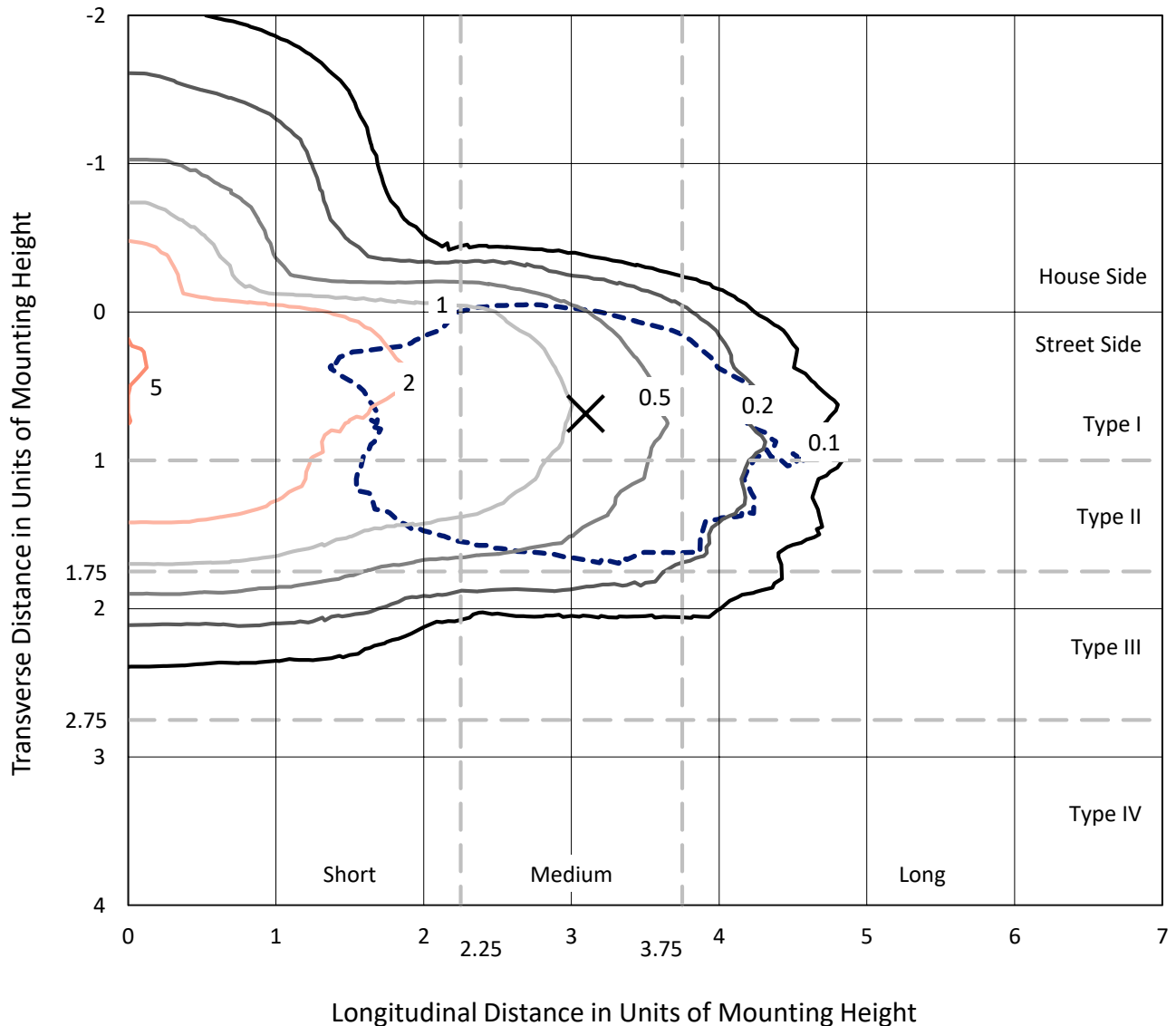
Input Watts (W): 33.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

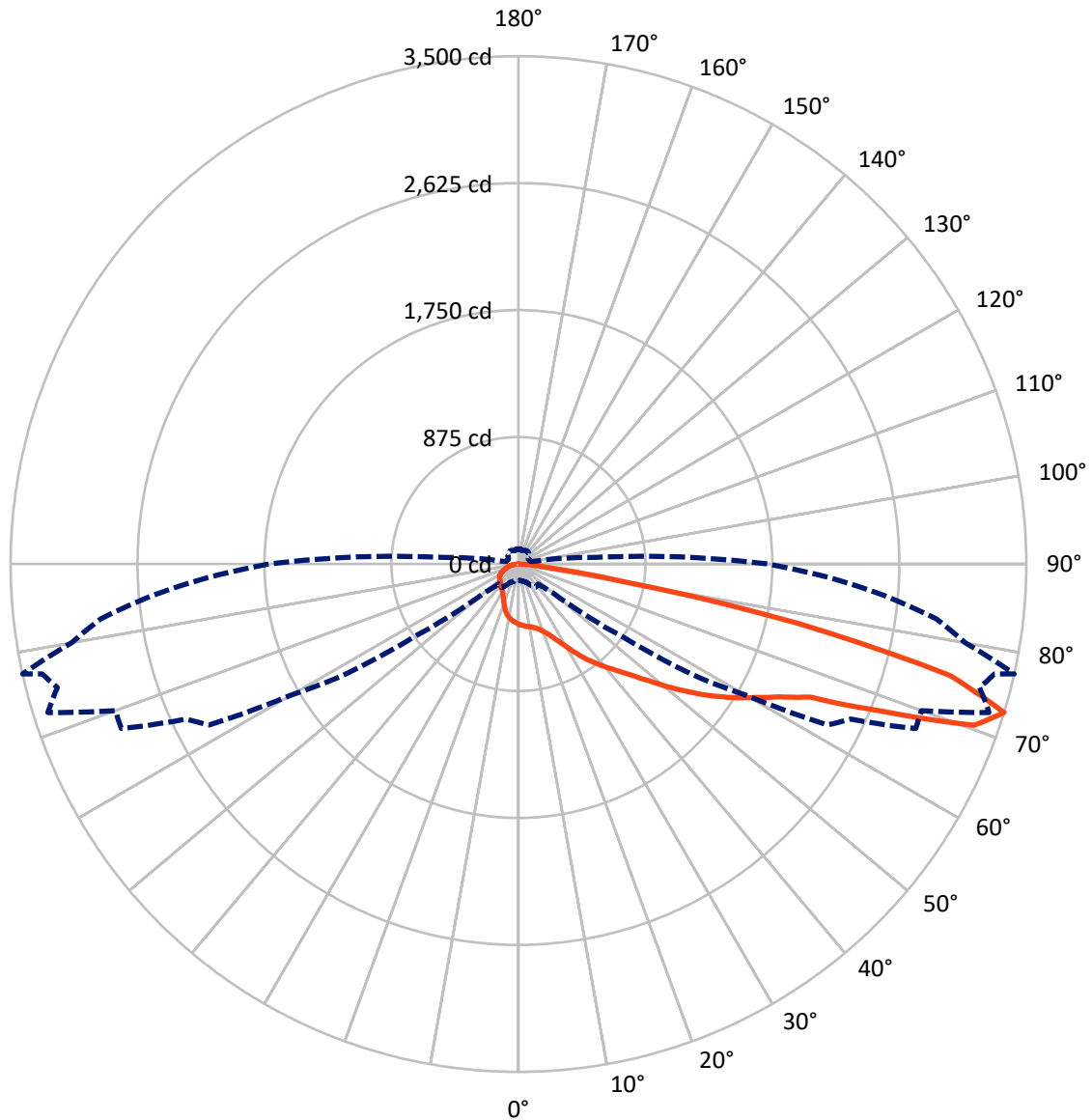
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	517.5	0.0	517.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	2605.5	0.0	2605.5
	% Fixture	83.4	0.0	83.4
Total	Lumens	3123.0	0.0	3123.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	1.2
10°-20°	118.8	3.8
20°-30°	210.8	6.8
30°-40°	334.0	10.7
40°-50°	501.1	16.0
50°-60°	649.3	20.8
60°-70°	737.8	23.6
70°-80°	489.6	15.7
80°-90°	42.8	1.4
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°	3123.0	100.0
0°-180°	3123.0	100.0



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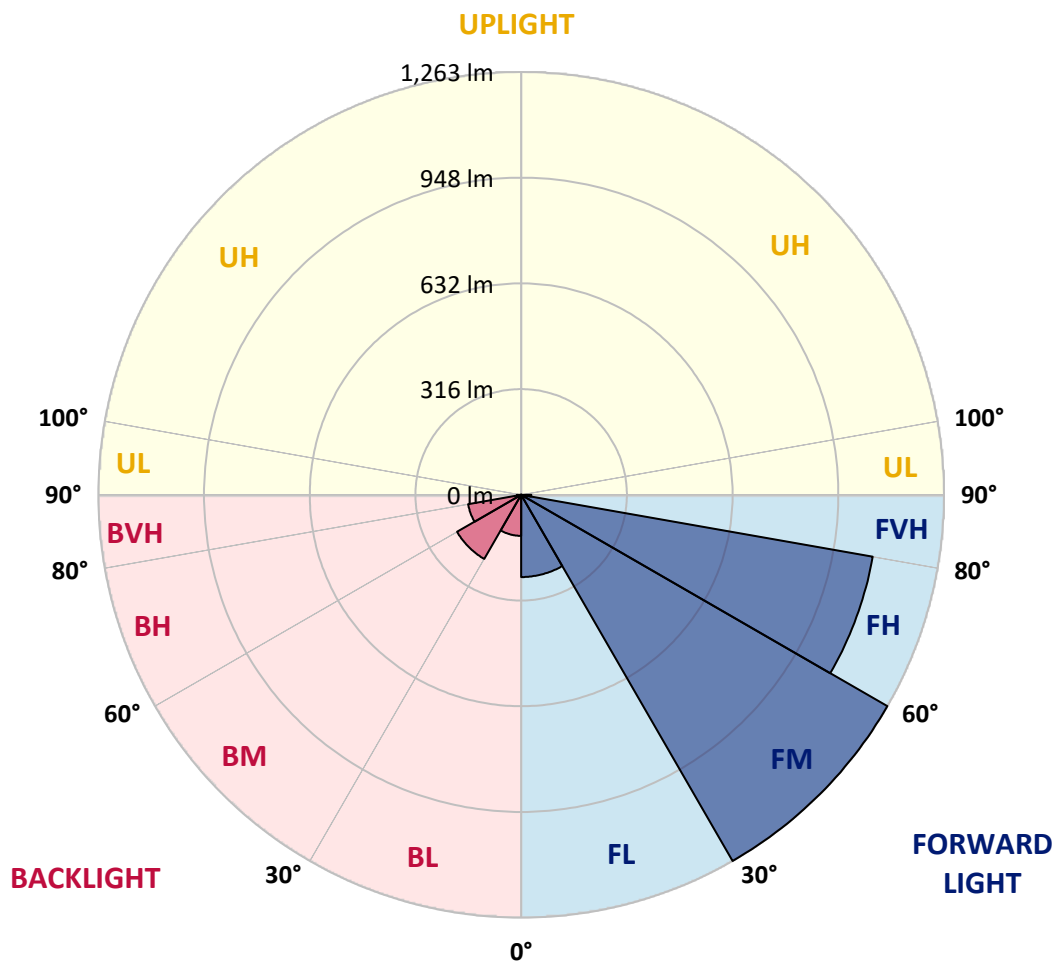
CATALOG NUMBER: ISS-AF-600-LED-E1-T2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	245.7	7.9			
FM	(30°-60°)	1263.4	40.5			
FH	(60°-80°)	1066.5	34.1			G1/1800
FVH	(80°-90°)	29.9	1.0			G1/100
BL	(0°-30°)	122.6	3.9	B1/500		
BM	(30°-60°)	221.1	7.1	B1/1000		
BH	(60°-80°)	160.9	5.2	B1/500		G1/500
BVH	(80°-90°)	12.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0
2.5°	451.7	449.6	448.6	446.5	444.4	443.3	440.1	438.0	441.2	440.1	440.1
5°	485.4	483.3	480.2	477.0	472.8	469.6	466.5	463.3	465.4	463.3	461.2
7.5°	512.8	510.7	506.5	503.3	499.1	494.9	490.7	489.6	487.5	484.4	483.3
10°	528.6	526.5	524.4	522.3	516.0	512.8	507.5	504.4	505.4	501.2	501.2
12.5°	543.3	541.2	540.2	540.2	534.9	531.7	529.6	526.5	528.6	522.3	520.2
15°	557.0	554.9	551.8	554.9	553.9	552.8	551.8	550.7	553.9	547.5	548.6
17.5°	579.1	578.1	571.8	567.5	568.6	571.8	573.9	572.8	572.8	569.7	570.7
20°	613.9	613.9	605.5	598.1	586.5	586.5	587.6	586.5	588.6	590.7	593.9
22.5°	640.2	638.1	634.9	628.6	616.0	605.5	605.5	601.2	604.4	605.5	611.8
25°	673.9	671.8	664.4	664.4	651.8	638.1	636.0	629.7	637.0	623.4	633.9
27.5°	715.0	712.9	703.4	699.2	692.9	676.0	671.8	672.8	680.2	660.2	670.7
30°	766.6	764.5	752.9	741.3	730.8	712.9	710.8	709.7	726.5	703.4	717.1
32.5°	831.8	831.8	819.2	803.4	782.4	758.1	749.7	750.8	773.9	748.7	771.8
35°	930.8	918.2	895.0	870.8	848.7	820.3	808.7	806.6	827.6	802.4	828.7
37.5°	994.0	985.6	964.5	946.6	922.4	895.0	886.6	889.8	907.7	870.8	908.7
40°	1050.9	1049.8	1036.1	1024.5	1000.3	972.9	983.5	1025.6	1073.0	1001.4	1002.4
42.5°	1088.8	1090.9	1089.8	1090.9	1077.2	1048.8	1066.7	1125.6	1206.7	1164.6	1125.6
45°	1095.1	1102.5	1105.6	1126.7	1140.4	1123.5	1133.0	1195.1	1357.3	1422.6	1246.7
47.5°	1110.9	1118.3	1111.9	1137.2	1200.4	1199.3	1237.2	1260.4	1282.5	1293.0	1425.7
50°	1131.9	1145.6	1139.3	1160.4	1212.0	1241.4	1274.1	1303.6	1285.7	1219.3	1255.1
52.5°	1133.0	1148.8	1183.5	1204.6	1255.1	1248.8	1270.9	1255.1	1282.5	1214.1	1248.8
55°	1040.3	1043.5	1144.6	1250.9	1339.4	1321.5	1307.8	1272.0	1306.7	1221.4	1265.7
57.5°	894.0	904.5	1009.8	1188.8	1378.3	1394.1	1389.9	1386.8	1414.1	1300.4	1348.9
60°	732.9	745.5	845.5	1056.1	1297.3	1338.3	1395.2	1429.9	1500.5	1455.2	1535.2
62.5°	457.0	466.5	577.0	840.3	1144.6	1225.7	1308.8	1349.9	1452.0	1473.1	1608.9
65°	218.0	221.1	264.3	457.0	831.8	984.5	1107.7	1195.1	1320.4	1415.2	1598.4
67.5°	169.5	170.6	186.4	243.2	426.5	528.6	668.6	784.5	918.2	1177.2	1404.7
70°	135.8	135.8	148.5	179.0	264.3	278.0	313.8	352.7	409.6	618.1	802.4
72.5°	113.7	113.7	122.1	141.1	195.9	199.0	196.9	193.7	193.7	244.3	311.7
75°	95.8	94.8	100.0	112.7	145.3	149.5	147.4	140.0	131.6	131.6	148.5
77.5°	77.9	77.9	82.1	88.4	105.3	107.4	107.4	101.1	93.7	94.8	102.1
80°	61.1	61.1	64.2	68.4	73.7	72.7	72.7	66.3	61.1	60.0	64.2
82.5°	44.2	45.3	52.6	49.5	47.4	44.2	44.2	43.2	39.0	35.8	37.9
85°	13.7	14.7	25.3	29.5	24.2	20.0	19.0	15.8	16.8	13.7	15.8
87.5°	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	1.1	0.0	1.1
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):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77°
0°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0
2.5°	434.9	437.0	432.8	432.8	427.5	430.7	425.4	426.5	421.2	423.3	423.3
5°	455.9	457.0	451.7	449.6	444.4	444.4	439.1	439.1	431.7	433.8	431.7
7.5°	475.9	475.9	470.7	466.5	461.2	459.1	452.8	449.6	443.3	442.2	439.1
10°	492.8	492.8	485.4	481.2	474.9	471.7	463.3	460.1	452.8	447.5	444.4
12.5°	513.8	511.7	503.3	499.1	488.6	487.5	474.9	472.8	462.3	459.1	453.8
15°	539.1	541.2	527.5	526.5	511.7	510.7	493.8	492.8	477.0	475.9	468.6
17.5°	566.5	570.7	559.1	558.1	540.2	540.2	520.2	519.1	498.1	497.0	487.5
20°	590.7	596.0	588.6	590.7	574.9	576.0	553.9	553.9	524.4	522.3	513.8
22.5°	612.8	623.4	617.0	628.6	612.8	620.2	590.7	596.0	561.2	557.0	544.4
25°	634.9	648.6	646.5	665.5	653.9	666.5	636.0	646.5	601.2	604.4	587.6
27.5°	657.1	675.0	672.8	700.2	696.0	721.3	695.0	706.5	657.1	660.2	641.3
30°	693.9	713.9	706.5	735.0	735.0	776.0	756.0	773.9	719.2	725.5	703.4
32.5°	743.4	766.6	744.4	781.3	779.2	832.9	817.1	847.6	793.9	802.4	775.0
35°	797.1	834.0	798.1	839.2	832.9	888.7	878.2	927.7	870.8	880.3	852.9
37.5°	867.6	911.9	864.5	900.3	871.9	936.1	929.8	997.2	939.2	963.5	930.8
40°	950.8	985.6	926.6	957.1	909.8	976.1	965.6	1058.2	1004.5	1043.5	1014.0
42.5°	1027.7	1051.9	974.0	1011.9	955.0	1022.4	1003.5	1115.1	1068.8	1128.8	1096.1
45°	1097.2	1124.6	1021.4	1063.5	1000.3	1074.0	1041.4	1169.8	1138.3	1228.8	1196.2
47.5°	1196.2	1156.2	1064.6	1119.3	1048.8	1129.8	1086.7	1234.1	1222.5	1351.0	1313.1
50°	1163.5	1189.9	1100.4	1157.2	1093.0	1192.0	1144.6	1310.9	1314.1	1483.6	1461.5
52.5°	1166.7	1210.9	1127.7	1206.7	1144.6	1278.3	1228.8	1403.6	1418.3	1612.1	1581.6
55°	1185.6	1250.9	1168.8	1275.1	1217.2	1374.1	1339.4	1503.6	1528.9	1733.2	1715.3
57.5°	1233.0	1323.6	1239.3	1378.3	1318.3	1483.6	1452.0	1606.8	1641.6	1854.3	1849.0
60°	1415.2	1522.6	1375.2	1528.9	1448.9	1607.9	1565.8	1715.3	1750.0	1970.1	1983.8
62.5°	1618.4	1804.8	1717.4	1877.4	1665.8	1826.9	1702.6	1849.0	1851.1	2094.4	2137.5
65°	1671.1	1957.5	2032.2	2330.2	2219.7	2385.0	2053.3	2151.2	2024.9	2320.7	2382.9
67.5°	1651.1	2001.7	2209.1	2545.0	2670.3	2958.8	2903.0	2869.3	2576.6	2789.3	2864.1
70°	1212.0	1583.7	2091.2	2432.4	2793.5	2983.1	3283.2	3313.7	3301.1	3271.6	3321.1
72.5°	551.8	865.5	1415.2	1804.8	2400.8	2528.2	2963.1	2954.6	3401.1	3290.5	3368.4
75°	216.9	333.8	673.9	1007.7	1660.5	1817.4	2310.2	2188.1	2745.1	2582.9	2749.3
77.5°	119.0	149.5	252.7	432.8	906.6	989.8	1414.1	1209.9	1702.6	1421.5	1477.3
80°	71.6	89.5	115.8	164.3	385.4	407.5	603.4	486.5	696.0	528.6	512.8
82.5°	39.0	48.4	57.9	81.1	143.2	159.0	208.5	187.4	223.2	190.6	186.4
85°	15.8	21.1	22.1	32.6	47.4	54.8	66.3	71.6	87.4	80.0	77.9
87.5°	0.0	1.1	0.0	2.1	0.0	2.1	0.0	3.2	3.2	5.3	6.3
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°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0
2.5°	420.1	423.3	419.1	419.1	413.8	417.0	413.8	410.7	405.4	406.4	399.1
5°	427.5	429.6	424.3	422.2	419.1	418.0	411.7	405.4	398.0	398.0	389.6
7.5°	434.9	434.9	427.5	427.5	420.1	418.0	408.6	398.0	387.5	386.4	373.8
10°	439.1	438.0	428.6	428.6	418.0	417.0	405.4	389.6	374.9	370.6	352.7
12.5°	447.5	446.5	434.9	432.8	419.1	419.1	402.2	381.2	360.1	352.7	327.5
15°	458.0	459.1	445.4	442.2	426.5	425.4	402.2	370.6	342.2	330.6	300.1
17.5°	474.9	475.9	457.0	453.8	434.9	431.7	403.3	358.0	318.0	305.4	278.0
20°	497.0	493.8	468.6	467.5	442.2	439.1	402.2	339.1	293.8	281.1	256.9
22.5°	524.4	521.2	488.6	485.4	455.9	450.7	401.2	319.0	271.7	258.0	242.2
25°	562.3	558.1	518.1	513.8	477.0	468.6	400.1	298.0	252.7	242.2	232.7
27.5°	609.7	601.2	552.8	548.6	499.1	488.6	395.9	273.8	233.8	226.4	222.2
30°	666.5	659.2	597.0	590.7	528.6	514.9	391.7	251.7	220.1	216.9	213.8
32.5°	733.9	726.5	650.7	643.4	566.5	546.5	384.3	233.8	211.6	211.6	207.4
35°	804.5	798.1	708.6	703.4	608.6	582.3	374.9	218.0	204.3	204.3	200.1
37.5°	867.6	872.9	771.8	767.6	650.7	618.1	364.3	207.4	198.0	195.9	191.6
40°	936.1	948.7	830.8	834.0	695.0	656.0	351.7	199.0	190.6	188.5	187.4
42.5°	1005.6	1029.8	892.9	904.5	739.2	695.0	342.2	193.7	187.4	183.2	182.2
45°	1091.9	1126.7	969.8	991.9	790.8	742.3	339.1	187.4	178.0	172.7	169.5
47.5°	1199.3	1245.7	1064.6	1089.8	859.2	799.2	345.4	185.3	171.6	165.3	159.0
50°	1326.7	1371.0	1177.2	1187.7	936.1	861.3	359.1	188.5	169.5	160.1	150.6
52.5°	1461.5	1495.2	1296.2	1284.6	1016.1	922.4	374.9	189.5	164.3	154.8	143.2
55°	1600.5	1619.5	1406.8	1376.2	1088.8	983.5	395.9	188.5	160.1	149.5	134.8
57.5°	1736.3	1742.7	1504.7	1475.2	1160.4	1056.1	422.2	185.3	153.7	143.2	127.4
60°	1869.0	1879.5	1613.1	1585.8	1238.3	1149.8	460.1	180.1	145.3	137.9	121.1
62.5°	2014.3	2049.1	1742.7	1746.9	1345.7	1296.2	531.7	173.7	136.9	128.5	111.6
65°	2212.3	2345.0	1956.4	2055.4	1552.1	1572.1	668.6	155.8	125.3	114.8	103.2
67.5°	2708.2	2853.5	2475.5	2515.5	2035.4	1916.4	755.0	132.7	110.6	103.2	95.8
70°	3329.5	3225.2	2956.7	2714.6	2317.6	1970.1	664.4	111.6	97.9	93.7	89.5
72.5°	3500.1	3126.3	2905.1	2541.9	2142.8	1718.4	508.6	95.8	87.4	85.3	82.1
75°	3075.7	2534.5	2547.1	2019.6	1776.4	1309.9	347.5	82.1	75.8	74.8	73.7
77.5°	1966.9	1302.5	1585.8	998.2	1025.6	606.5	169.5	68.4	65.3	65.3	63.2
80°	699.2	433.8	490.7	314.8	286.4	192.7	91.6	54.8	52.6	53.7	52.6
82.5°	209.5	166.4	163.2	127.4	99.0	81.1	50.5	42.1	40.0	41.1	39.0
85°	84.2	65.3	54.8	42.1	34.7	31.6	27.4	28.4	25.3	27.4	24.2
87.5°	5.3	4.2	3.2	4.2	0.0	2.1	5.3	4.2	1.1	4.2	3.2
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):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°
0°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0
2.5°	404.3	397.0	400.1	397.0	399.1	392.8	394.9	389.6	389.6	388.5	383.3
5°	390.7	383.3	382.2	374.9	375.9	367.5	366.4	357.0	357.0	348.5	332.7
7.5°	371.7	360.1	359.1	344.3	343.3	331.7	327.5	316.9	315.9	306.4	296.9
10°	347.5	329.6	326.4	307.5	308.5	295.9	294.8	287.5	287.5	283.2	283.2
12.5°	320.1	300.1	298.0	283.2	284.3	275.9	276.9	272.7	274.8	276.9	284.3
15°	294.8	279.0	276.9	267.5	268.5	266.4	269.6	269.6	272.7	278.0	290.6
17.5°	273.8	260.1	261.1	256.9	261.1	260.1	266.4	265.3	271.7	278.0	293.8
20°	254.8	247.4	250.6	249.6	254.8	254.8	260.1	261.1	266.4	274.8	292.7
22.5°	242.2	240.1	243.2	243.2	247.4	248.5	253.8	256.9	260.1	268.5	284.3
25°	234.8	233.8	236.9	238.0	241.1	242.2	247.4	247.4	252.7	258.0	266.4
27.5°	224.3	222.2	226.4	226.4	230.6	229.5	235.9	233.8	239.0	241.1	243.2
30°	216.9	213.8	216.9	215.9	219.0	215.9	219.0	215.9	219.0	219.0	215.9
32.5°	209.5	206.4	207.4	203.2	206.4	202.2	203.2	199.0	201.1	199.0	200.1
35°	202.2	198.0	198.0	192.7	192.7	187.4	189.5	185.3	189.5	192.7	191.6
37.5°	191.6	188.5	188.5	184.3	186.4	184.3	188.5	186.4	187.4	183.2	175.8
40°	185.3	187.4	186.4	189.5	187.4	184.3	181.1	174.8	173.7	171.6	167.4
42.5°	175.8	178.0	172.7	176.9	173.7	174.8	172.7	169.5	167.4	165.3	161.1
45°	162.2	162.2	157.9	164.3	161.1	167.4	165.3	165.3	163.2	160.1	156.9
47.5°	150.6	151.6	147.4	152.7	150.6	159.0	157.9	161.1	161.1	159.0	150.6
50°	143.2	141.1	137.9	143.2	142.2	149.5	150.6	156.9	155.8	156.9	149.5
52.5°	136.9	132.7	129.5	132.7	132.7	139.0	141.1	148.5	149.5	151.6	147.4
55°	129.5	124.3	122.1	124.3	124.3	130.6	133.7	139.0	142.2	148.5	146.4
57.5°	123.2	115.8	113.7	115.8	116.9	123.2	126.4	131.6	135.8	144.3	143.2
60°	115.8	109.5	107.4	110.6	111.6	117.9	121.1	126.4	129.5	139.0	139.0
62.5°	107.4	102.1	102.1	103.2	105.3	111.6	113.7	121.1	122.1	133.7	134.8
65°	100.0	96.9	96.9	97.9	100.0	105.3	106.3	113.7	114.8	126.4	129.5
67.5°	93.7	91.6	91.6	92.7	93.7	97.9	99.0	106.3	108.5	119.0	124.3
70°	87.4	85.3	84.2	84.2	87.4	90.6	92.7	100.0	101.1	110.6	116.9
72.5°	80.0	77.9	77.9	76.9	80.0	82.1	86.3	90.6	92.7	102.1	106.3
75°	72.7	70.5	70.5	69.5	71.6	75.8	76.9	81.1	82.1	90.6	94.8
77.5°	63.2	61.1	61.1	61.1	63.2	64.2	65.3	69.5	71.6	79.0	83.2
80°	52.6	50.5	51.6	50.5	53.7	49.5	52.6	56.9	59.0	63.2	61.1
82.5°	40.0	36.9	37.9	37.9	39.0	35.8	37.9	40.0	42.1	45.3	44.2
85°	25.3	22.1	24.2	22.1	24.2	21.1	23.2	23.2	25.3	23.2	22.1
87.5°	5.3	2.1	5.3	2.1	6.3	0.0	3.2	0.0	2.1	1.1	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°	417.0	417.0	417.0	417.0
2.5°	378.0	373.8	371.7	370.6
5°	324.3	316.9	314.8	312.7
7.5°	291.7	289.6	289.6	288.5
10°	285.4	288.5	289.6	289.6
12.5°	292.7	298.0	302.2	302.2
15°	302.2	311.7	316.9	316.9
17.5°	309.6	322.2	327.5	328.5
20°	310.6	323.3	330.6	331.7
22.5°	301.1	309.6	314.8	314.8
25°	276.9	281.1	284.3	284.3
27.5°	246.4	245.3	244.3	248.5
30°	214.8	212.7	208.5	212.7
32.5°	203.2	195.9	185.3	188.5
35°	185.3	183.2	178.0	179.0
37.5°	179.0	196.9	195.9	196.9
40°	171.6	193.7	192.7	194.8
42.5°	165.3	178.0	165.3	166.4
45°	153.7	159.0	148.5	148.5
47.5°	148.5	146.4	142.2	141.1
50°	144.3	144.3	142.2	140.0
52.5°	141.1	139.0	146.4	145.3
55°	136.9	134.8	140.0	140.0
57.5°	133.7	128.5	136.9	136.9
60°	130.6	125.3	133.7	133.7
62.5°	128.5	122.1	132.7	131.6
65°	125.3	119.0	132.7	130.6
67.5°	121.1	112.7	130.6	127.4
70°	112.7	105.3	123.2	114.8
72.5°	104.2	95.8	105.3	97.9
75°	91.6	84.2	85.3	84.2
77.5°	76.9	68.4	66.3	67.4
80°	57.9	52.6	50.5	50.5
82.5°	42.1	35.8	36.9	30.5
85°	19.0	13.7	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)