

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: P227973

Luminaire Tested: **ISS-AF-350-LED-E1-T4W-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29757)
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-T4W-7050
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE
Light Source: (16) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2386 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

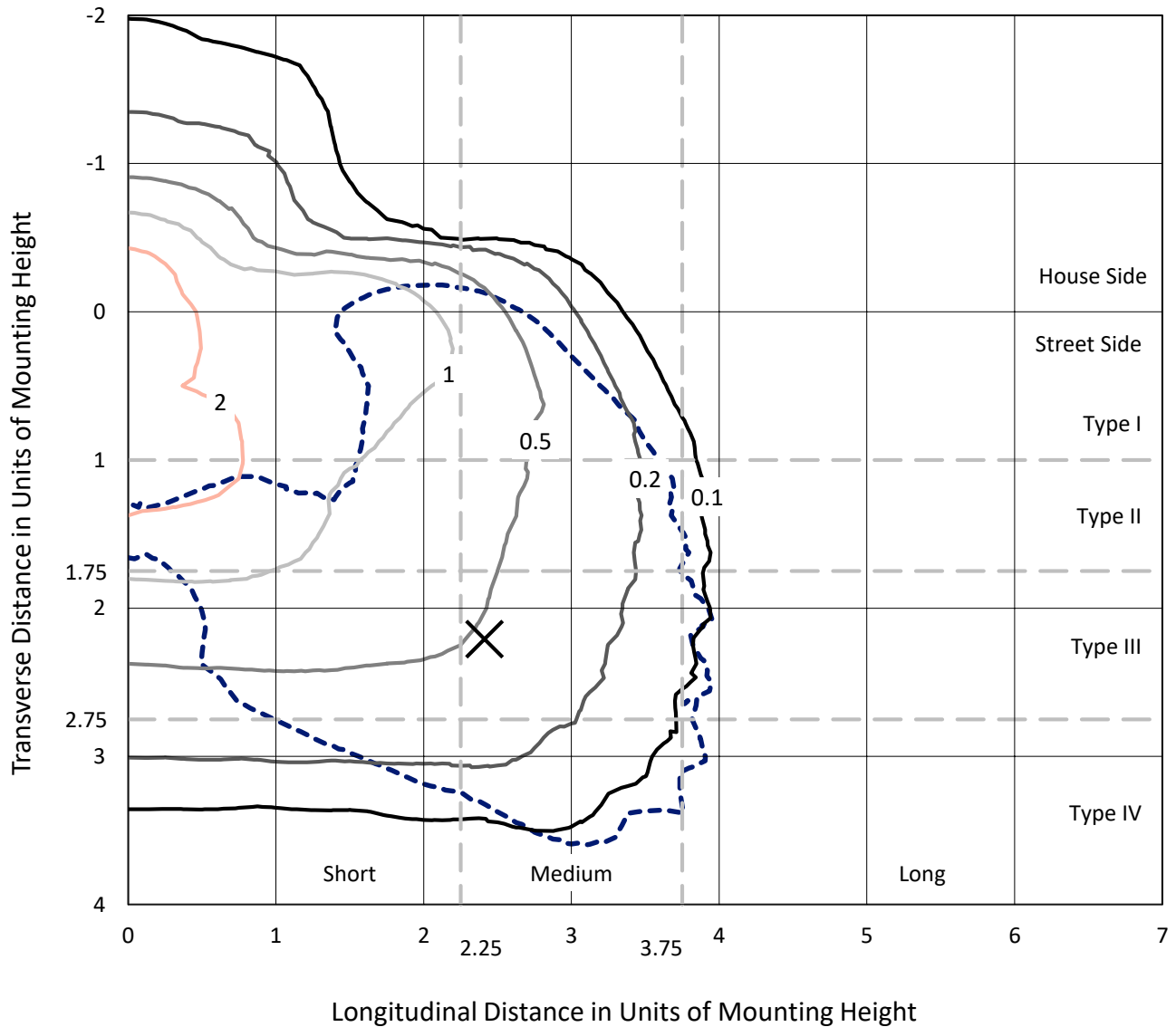
Input Watts (W): 20.09
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

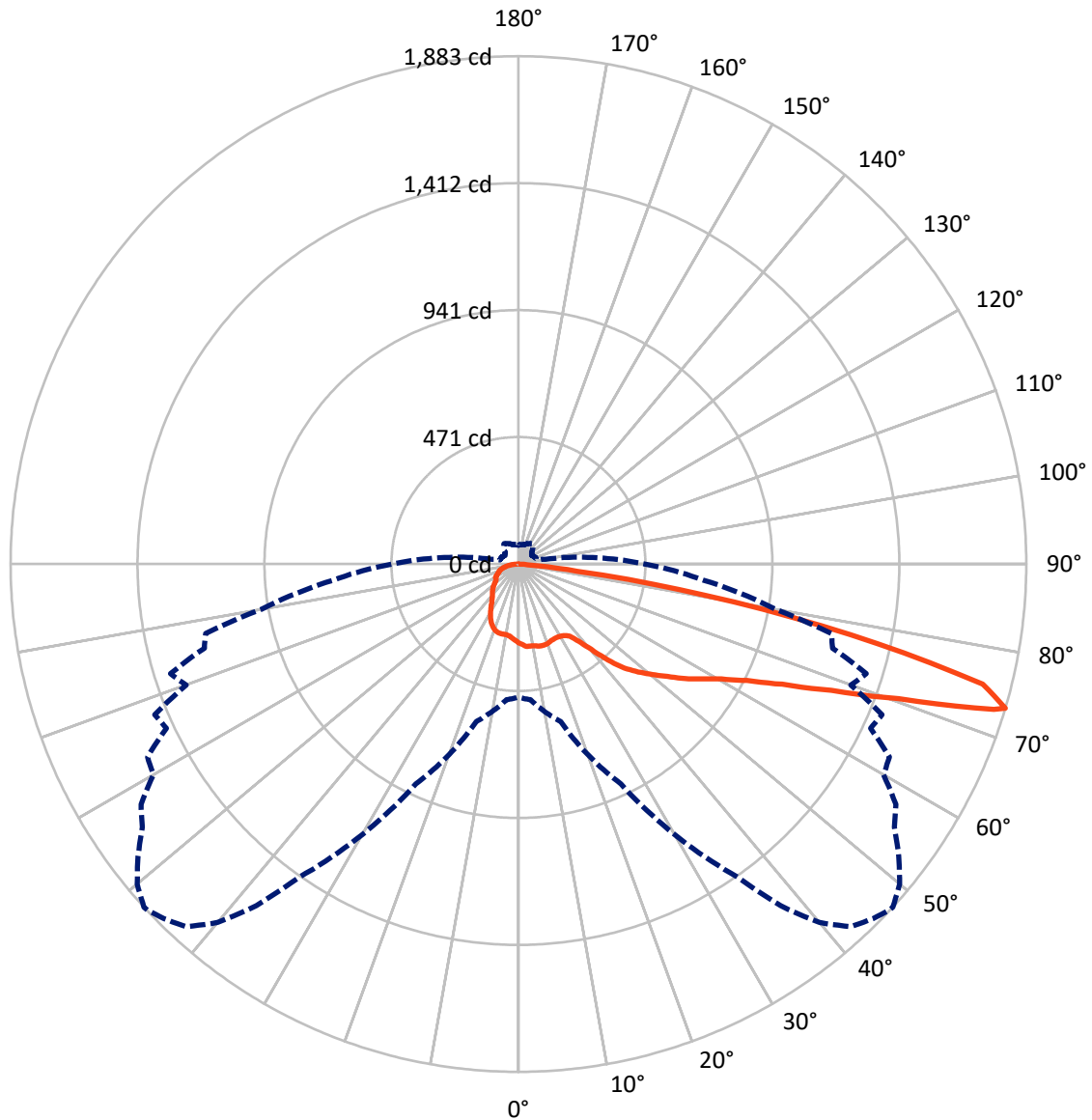
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	476.7	0.0	476.7
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	1909.3	0.0	1909.3
	% Fixture	80.0	0.0	80.0
Total	Lumens	2386.0	0.0	2386.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.9	1.2
10°-20°	83.0	3.5
20°-30°	127.6	5.3
30°-40°	186.2	7.8
40°-50°	307.0	12.9
50°-60°	480.6	20.1
60°-70°	652.0	27.3
70°-80°	482.8	20.2
80°-90°	39.0	1.6
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°	2386.0	100.0
0°-180°	2386.0	100.0



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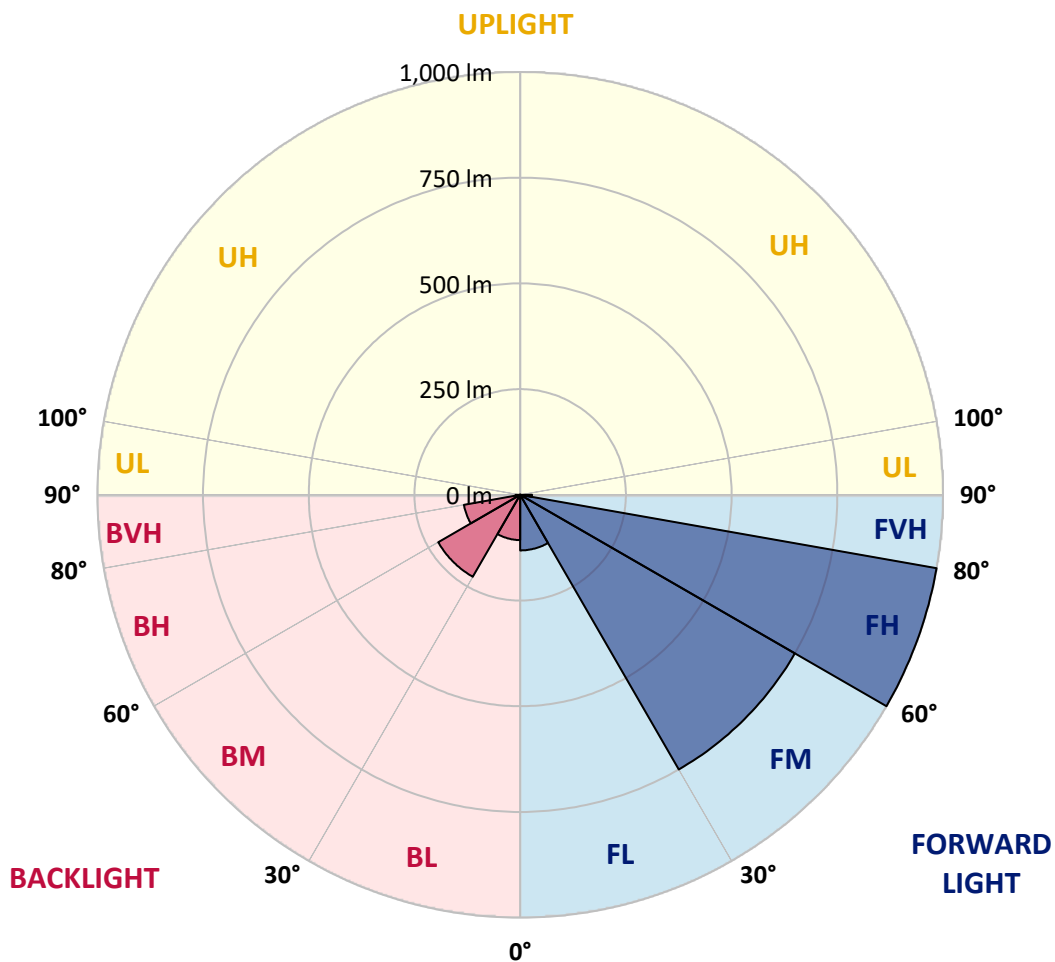
CATALOG NUMBER: ISS-AF-350-LED-E1-T4W-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	131.5	5.5			
FM (30°-60°)	749.9	31.4			
FH (60°-80°)	999.7	41.9			G1/1800
FVH (80°-90°)	28.1	1.2			G1/100
BL (0°-30°)	107.0	4.5	B0/110		
BM (30°-60°)	223.8	9.4	B1/1000		
BH (60°-80°)	135.0	5.7	B1/500		G1/500
BVH (80°-90°)	10.9	0.5			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47°	47.5°
0°	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0
2.5°	310.3	309.5	307.2	306.4	304.0	302.5	301.7	300.9	303.2	301.7	299.3
5°	330.0	328.4	325.3	320.6	315.8	312.7	311.9	310.3	310.3	308.8	307.2
7.5°	344.2	343.4	338.7	331.6	323.7	318.2	315.1	312.7	313.5	311.9	307.2
10°	357.6	356.0	348.1	339.5	327.7	321.4	317.4	313.5	316.6	314.3	308.0
12.5°	367.8	366.3	355.2	344.2	330.8	323.7	319.8	317.4	320.6	319.0	311.9
15°	373.3	371.8	360.7	347.3	333.2	325.3	323.7	322.1	324.5	321.4	315.1
17.5°	370.2	370.2	360.0	345.8	334.0	326.1	323.7	322.1	325.3	322.1	315.1
20°	358.4	360.0	352.9	337.9	329.2	323.7	321.4	318.2	321.4	318.2	313.5
22.5°	343.4	345.0	341.0	327.7	321.4	317.4	316.6	313.5	315.8	313.5	308.8
25°	330.0	330.0	328.4	316.6	315.8	312.7	313.5	311.9	313.5	310.3	307.2
27.5°	330.8	330.8	324.5	312.7	311.9	311.9	311.9	311.9	312.7	310.3	307.2
30°	377.3	378.9	360.7	327.7	315.8	314.3	315.1	314.3	315.1	314.3	310.3
32.5°	447.4	447.4	430.1	378.9	337.1	326.9	322.9	322.1	319.8	319.0	315.8
35°	516.7	515.9	498.6	441.9	389.1	369.4	356.8	345.0	339.5	334.0	328.4
37.5°	575.0	572.6	570.2	505.7	450.5	427.7	412.7	395.4	384.4	374.9	362.3
40°	629.3	633.3	641.9	564.7	512.0	490.7	475.7	453.7	442.7	430.8	415.9
42.5°	704.1	709.7	710.4	628.5	567.9	553.7	541.9	525.4	513.5	499.4	486.0
45°	776.6	777.4	779.8	697.1	636.4	618.3	609.6	593.9	578.9	560.8	549.8
47.5°	826.2	823.9	834.1	775.8	716.8	696.3	683.7	660.0	637.2	614.4	597.8
50°	886.9	884.5	884.5	865.6	809.7	786.1	764.0	719.9	695.5	667.1	643.5
52.5°	940.4	931.8	937.3	948.3	907.4	877.4	838.8	789.2	756.9	722.3	692.3
55°	1013.7	968.8	981.4	1020.0	1004.2	957.8	906.6	853.8	816.8	777.4	749.8
57.5°	988.5	957.8	994.8	1062.5	1061.7	1018.4	975.1	910.5	873.5	836.5	802.6
60°	897.9	913.7	994.0	1091.7	1095.6	1061.7	1026.3	966.4	937.3	898.7	864.8
62.5°	827.8	850.6	960.9	1089.3	1134.2	1102.7	1073.6	1038.1	1017.6	985.3	950.7
65°	823.9	837.3	944.4	1086.9	1188.5	1172.0	1158.6	1142.1	1138.1	1114.5	1074.3
67.5°	861.7	874.3	972.7	1147.6	1268.9	1261.8	1281.5	1278.3	1295.7	1283.8	1250.8
70°	787.6	794.7	916.0	1168.9	1452.4	1483.9	1528.0	1525.7	1562.7	1534.3	1495.7
72.5°	552.9	567.1	674.2	965.6	1456.3	1624.9	1727.3	1813.9	1854.1	1861.2	1843.1
73°	493.8	504.9	604.1	899.5	1417.0	1596.5	1734.4	1823.4	1858.8	1880.9	1882.5
75°	171.7	177.2	263.9	545.0	1132.6	1393.3	1570.5	1650.9	1642.2	1706.8	1777.7
77.5°	55.1	55.9	68.5	141.0	546.6	864.8	1062.5	1136.6	1094.0	1164.1	1258.6
80°	33.9	35.4	44.9	63.8	143.4	262.3	444.2	556.1	533.2	598.6	699.4
82.5°	20.5	21.3	27.6	39.4	57.5	63.8	83.5	113.4	139.4	167.8	219.8
85°	9.5	10.2	13.4	18.1	23.6	24.4	23.6	22.1	25.2	29.1	33.9
87.5°	0.0	0.0	0.8	1.6	0.8	0.0	0.0	0.0	0.0	0.8	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):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0
2.5°	301.7	299.3	299.3	296.2	297.7	294.6	296.2	293.0	294.6	290.6	293.0
5°	306.4	302.5	302.5	297.7	298.5	293.0	295.4	289.1	292.2	285.1	289.9
7.5°	308.8	301.7	304.8	296.2	300.1	290.6	295.4	285.1	291.4	280.4	288.3
10°	311.9	301.7	307.2	297.7	302.5	291.4	297.7	285.1	293.0	279.6	286.7
12.5°	316.6	305.6	310.3	299.3	305.6	293.0	299.3	286.7	294.6	279.6	288.3
15°	319.8	308.8	313.5	302.5	307.2	293.0	300.9	285.9	294.6	278.8	288.3
17.5°	319.0	308.8	313.5	300.9	306.4	292.2	300.1	285.1	293.0	276.5	286.7
20°	315.8	307.2	310.3	299.3	304.0	289.9	296.9	282.0	290.6	274.1	284.3
22.5°	311.9	303.2	307.2	296.9	301.7	287.5	293.8	280.4	289.1	272.5	282.0
25°	309.5	302.5	304.8	294.6	300.9	288.3	294.6	279.6	289.1	272.5	283.5
27.5°	308.8	302.5	307.2	297.7	303.2	292.2	298.5	285.1	293.0	275.7	286.7
30°	313.5	308.0	311.9	304.0	308.8	297.7	304.0	291.4	299.3	282.8	295.4
32.5°	319.0	313.5	317.4	310.3	317.4	306.4	314.3	301.7	311.1	294.6	306.4
35°	330.8	324.5	330.0	322.1	330.0	321.4	330.0	316.6	328.4	311.9	324.5
37.5°	361.5	344.2	349.7	341.0	348.9	337.9	352.9	339.5	352.9	337.1	354.4
40°	410.4	379.6	385.2	367.0	378.9	362.3	380.4	370.2	388.3	368.6	390.7
42.5°	474.2	445.0	439.5	411.9	422.2	402.5	420.6	402.5	426.9	408.0	435.6
45°	532.4	501.7	493.1	466.3	473.4	447.4	470.2	445.0	477.3	455.3	489.9
47.5°	580.5	544.3	537.2	506.5	519.1	494.6	523.0	496.2	535.6	513.5	553.7
50°	624.6	579.7	578.1	545.0	566.3	541.9	582.1	563.9	602.5	580.5	627.7
52.5°	675.0	618.3	626.2	596.2	630.1	609.6	656.1	630.1	680.5	656.9	708.9
55°	728.6	668.7	689.2	671.1	711.2	697.8	737.2	713.6	763.2	739.6	794.7
57.5°	787.6	736.4	772.7	764.0	799.5	782.9	827.0	805.8	855.4	835.7	890.8
60°	864.8	831.0	866.4	865.6	896.3	895.5	923.9	911.3	958.6	949.9	1000.3
62.5°	964.9	938.1	975.9	965.6	1002.7	996.4	1031.0	1031.0	1064.9	1076.7	1127.1
65°	1099.5	1064.1	1109.0	1093.2	1130.3	1131.8	1153.9	1157.8	1198.8	1212.2	1255.5
67.5°	1282.3	1241.3	1276.8	1246.8	1289.4	1287.0	1305.9	1313.8	1319.3	1351.6	1356.3
70°	1545.3	1483.9	1516.2	1475.2	1483.1	1488.6	1453.2	1479.2	1416.2	1467.4	1398.1
72.5°	1829.7	1759.6	1703.7	1662.7	1581.6	1569.8	1466.6	1488.6	1354.7	1398.8	1258.6
73°	1844.6	1776.9	1701.3	1658.8	1562.7	1550.1	1439.8	1458.7	1310.6	1352.4	1205.1
75°	1676.9	1695.0	1513.1	1530.4	1363.4	1383.1	1210.6	1232.7	1050.7	1082.2	892.4
77.5°	1130.3	1190.9	986.9	1063.3	856.2	932.6	698.6	705.7	515.1	481.2	326.9
80°	560.0	612.0	434.0	474.2	318.2	312.7	190.6	158.3	134.7	137.8	141.8
82.5°	161.5	181.9	112.6	111.8	79.6	75.6	75.6	80.3	81.9	91.4	89.0
85°	30.7	37.0	32.3	43.3	38.6	42.5	39.4	45.7	42.5	52.8	45.7
87.5°	0.8	0.0	0.8	2.4	2.4	5.5	3.9	6.3	6.3	11.0	10.2
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°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0
2.5°	289.9	293.8	292.2	290.6	289.1	288.3	285.1	286.7	282.8	285.9	282.8
5°	283.5	288.3	285.9	282.8	281.2	279.6	274.1	278.0	271.7	277.2	272.5
7.5°	276.5	284.3	282.0	278.8	275.7	274.1	263.1	271.7	262.3	270.2	262.3
10°	274.1	282.8	279.6	275.7	272.5	270.9	257.6	267.8	257.6	266.2	256.0
12.5°	272.5	282.8	278.0	274.1	270.9	268.6	253.6	266.2	252.8	265.4	253.6
15°	270.9	282.8	276.5	271.7	268.6	266.2	250.5	264.6	249.7	263.9	250.5
17.5°	269.4	280.4	274.9	269.4	266.2	264.6	247.3	262.3	246.5	262.3	248.9
20°	267.0	278.0	271.7	266.2	263.1	260.7	243.4	259.1	242.6	258.3	243.4
22.5°	263.9	275.7	270.2	264.6	261.5	257.6	238.7	255.2	237.9	253.6	239.4
25°	264.6	277.2	270.2	264.6	259.9	256.0	235.5	253.6	233.9	249.7	233.9
27.5°	268.6	279.6	272.5	267.8	261.5	256.8	235.5	252.0	232.4	245.7	229.2
30°	276.5	287.5	281.2	274.1	268.6	262.3	239.4	252.8	232.4	241.0	224.5
32.5°	289.9	300.1	293.8	288.3	282.0	272.5	247.3	256.8	233.9	237.9	220.5
35°	307.2	319.8	316.6	312.7	304.8	288.3	260.7	262.3	237.1	234.7	215.0
37.5°	335.5	352.9	352.1	351.3	342.6	312.7	275.7	273.3	240.2	232.4	207.9
40°	372.6	393.0	398.5	404.1	385.9	341.8	293.0	284.3	241.8	227.6	196.9
42.5°	415.9	443.4	460.0	470.2	437.1	374.1	312.7	296.9	241.8	220.5	184.3
45°	469.4	501.7	533.2	544.3	493.8	408.8	333.2	307.2	238.7	209.5	167.8
47.5°	534.8	572.6	615.9	621.4	555.3	445.8	347.3	314.3	228.4	194.5	152.8
50°	607.3	653.0	716.8	712.8	620.7	484.4	356.8	319.0	210.3	177.2	134.7
52.5°	688.4	745.9	836.5	818.4	700.2	532.4	365.5	325.3	188.2	156.7	116.6
55°	790.0	858.5	971.9	933.4	788.4	585.2	378.1	326.1	159.1	132.3	103.2
57.5°	899.5	972.7	1117.7	1047.6	871.1	626.2	372.6	300.9	130.0	111.8	92.9
60°	1031.0	1120.0	1263.4	1153.9	940.4	640.3	334.0	248.1	111.1	100.8	88.2
62.5°	1178.3	1266.5	1383.1	1227.9	979.8	616.7	248.1	171.7	95.3	89.8	81.1
65°	1335.0	1418.5	1440.6	1234.2	953.8	512.8	153.6	112.6	82.7	80.3	74.8
67.5°	1479.2	1487.1	1386.2	1131.8	827.8	357.6	104.8	89.8	76.4	75.6	72.5
70°	1516.2	1379.9	1152.3	881.4	597.8	212.7	85.1	78.0	73.3	73.3	70.9
72.5°	1266.5	1050.7	770.3	534.0	326.1	113.4	72.5	70.9	69.3	69.3	67.7
73°	1187.8	968.0	690.0	466.3	275.7	101.6	70.9	69.3	68.5	67.7	66.9
75°	789.2	608.1	391.5	236.3	128.4	73.3	63.0	63.0	62.2	63.0	62.2
77.5°	304.0	229.2	151.2	101.6	73.3	57.5	53.6	54.3	53.6	55.1	54.3
80°	133.9	132.3	100.0	71.7	53.6	43.3	43.3	43.3	44.1	44.9	44.9
82.5°	91.4	77.2	59.1	44.1	32.3	31.5	32.3	32.3	33.1	33.9	33.1
85°	50.4	42.5	31.5	19.7	17.3	21.3	21.3	21.3	20.5	20.5	19.7
87.5°	15.8	11.8	8.7	2.4	3.9	3.9	5.5	4.7	4.7	5.5	5.5
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):

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0
2.5°	285.9	283.5	285.9	282.0	285.1	282.0	284.3	284.3	283.5	283.5	283.5
5°	276.5	272.5	276.5	274.1	276.5	273.3	275.7	276.5	277.2	279.6	278.8
7.5°	269.4	261.5	270.2	262.3	269.4	262.3	268.6	269.4	271.7	274.9	277.2
10°	266.2	256.0	266.2	256.8	265.4	257.6	265.4	266.2	268.6	272.5	276.5
12.5°	264.6	253.6	264.6	255.2	264.6	256.8	264.6	267.0	268.6	271.7	276.5
15°	263.1	252.0	264.6	254.4	264.6	256.8	265.4	267.0	269.4	272.5	276.5
17.5°	262.3	249.7	263.1	253.6	263.1	255.2	264.6	264.6	267.8	271.7	274.1
20°	259.1	247.3	259.1	249.7	259.1	252.0	259.9	259.9	263.1	264.6	268.6
22.5°	254.4	241.8	252.8	244.2	252.8	245.7	252.0	252.0	254.4	256.8	259.1
25°	247.3	235.5	245.0	237.1	243.4	237.1	241.8	241.0	242.6	244.2	245.7
27.5°	239.4	227.6	235.5	226.8	230.8	224.5	227.6	226.1	226.8	227.6	228.4
30°	230.8	219.0	222.9	215.0	215.8	209.5	211.1	208.7	207.9	207.1	205.6
32.5°	221.3	208.7	208.7	200.8	199.3	193.8	193.8	190.6	188.2	185.1	181.9
35°	209.5	198.5	193.0	186.7	183.5	178.0	177.2	173.3	167.8	162.3	159.1
37.5°	197.7	185.1	177.2	170.9	167.8	163.8	163.0	159.9	153.6	147.3	142.6
40°	181.9	169.3	160.7	158.3	156.0	152.8	153.6	149.7	143.4	136.3	132.3
42.5°	166.2	155.2	148.1	147.3	145.7	144.9	145.7	142.6	135.5	129.2	124.4
45°	152.8	141.8	134.7	133.9	133.1	136.3	137.0	136.3	128.4	122.1	115.8
47.5°	139.4	126.0	121.3	119.7	120.5	125.2	126.8	129.2	122.1	115.0	106.3
50°	123.7	111.1	109.5	107.9	108.7	112.6	116.6	121.3	115.0	104.8	92.9
52.5°	109.5	98.5	99.2	97.7	99.2	102.4	105.5	113.4	105.5	95.3	89.8
55°	98.5	89.8	91.4	89.8	91.4	95.3	97.7	104.0	104.0	101.6	96.9
57.5°	90.6	84.3	85.9	84.3	86.6	89.8	92.2	105.5	113.4	107.1	97.7
60°	85.9	80.3	81.1	79.6	81.1	85.9	90.6	106.3	118.9	106.3	99.2
62.5°	78.8	74.0	73.3	73.3	74.8	82.7	85.1	99.2	117.4	105.5	100.0
65°	74.0	70.1	69.3	68.5	70.1	75.6	78.0	92.2	113.4	100.0	90.6
67.5°	71.7	68.5	66.9	65.4	66.9	71.7	74.0	86.6	107.1	95.3	85.1
70°	69.3	66.2	65.4	63.8	64.6	67.7	70.9	79.6	101.6	89.8	79.6
72.5°	66.2	63.0	62.2	59.9	60.6	63.8	65.4	74.8	94.5	84.3	74.0
73°	65.4	62.2	61.4	59.1	59.9	62.2	63.8	73.3	92.9	83.5	73.3
75°	61.4	58.3	57.5	55.9	56.7	56.7	58.3	66.9	88.2	78.8	68.5
77.5°	54.3	52.0	51.2	49.6	48.8	48.0	50.4	59.1	80.3	70.9	55.1
80°	44.9	42.5	41.7	38.6	38.6	38.6	41.7	50.4	59.9	51.2	42.5
82.5°	33.1	31.5	31.5	29.1	28.4	27.6	29.9	34.7	47.3	40.2	33.1
85°	19.7	18.9	19.7	17.3	18.1	17.3	19.7	24.4	26.0	20.5	15.8
87.5°	4.7	5.5	5.5	5.5	4.7	4.7	3.9	3.2	0.0	0.0	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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	175°	180°
0°	293.0	293.0
2.5°	282.8	282.0
5°	278.8	278.8
7.5°	277.2	277.2
10°	278.0	278.0
12.5°	278.0	279.6
15°	280.4	279.6
17.5°	278.0	278.0
20°	271.7	273.3
22.5°	263.1	263.1
25°	248.9	249.7
27.5°	230.0	231.6
30°	206.4	207.9
32.5°	179.6	181.2
35°	158.3	159.1
37.5°	144.1	144.1
40°	132.3	132.3
42.5°	121.3	120.5
45°	110.3	108.7
47.5°	99.2	98.5
50°	89.8	89.8
52.5°	91.4	91.4
55°	98.5	98.5
57.5°	99.2	98.5
60°	107.9	107.1
62.5°	112.6	115.0
65°	98.5	95.3
67.5°	93.7	89.0
70°	84.3	77.2
72.5°	74.8	70.9
73°	72.5	69.3
75°	64.6	63.0
77.5°	48.8	48.0
80°	41.0	40.2
82.5°	27.6	26.0
85°	11.8	11.0
87.5°	0.0	0.0
90°	0.0	0.0

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