

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: P227794

Luminaire Tested: **ISS-AF-800-LED-E1-T4FT-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29760)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-800-LED-E1-T4FT-7030-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV FORWARD THROW, WITH UPLIGHT GLOW
Light Source: (16) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5710.2 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U5 - G1

Input Watts (W): 60.2
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

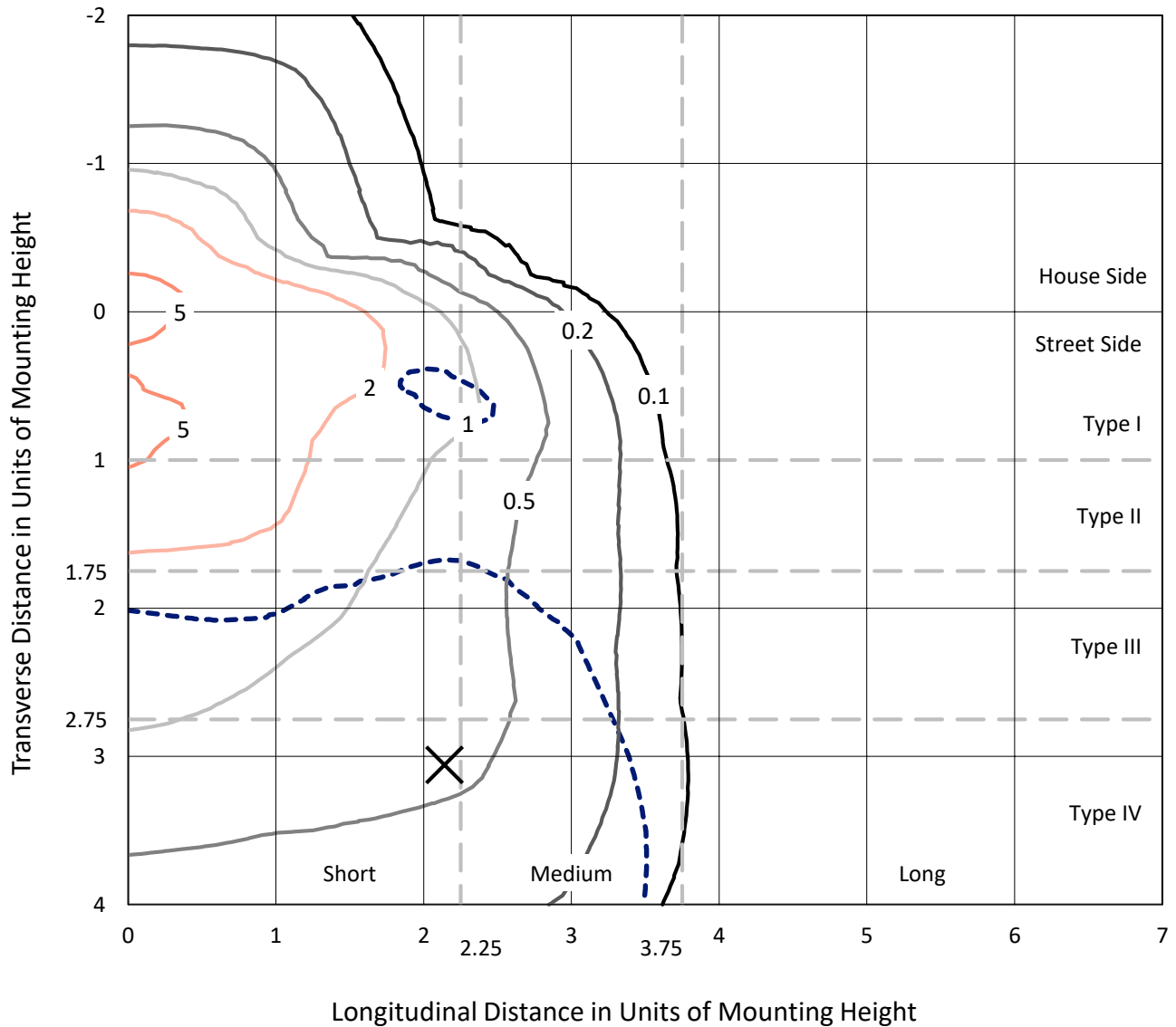


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Iso-Footcandle Lines of Horizontal Illumination

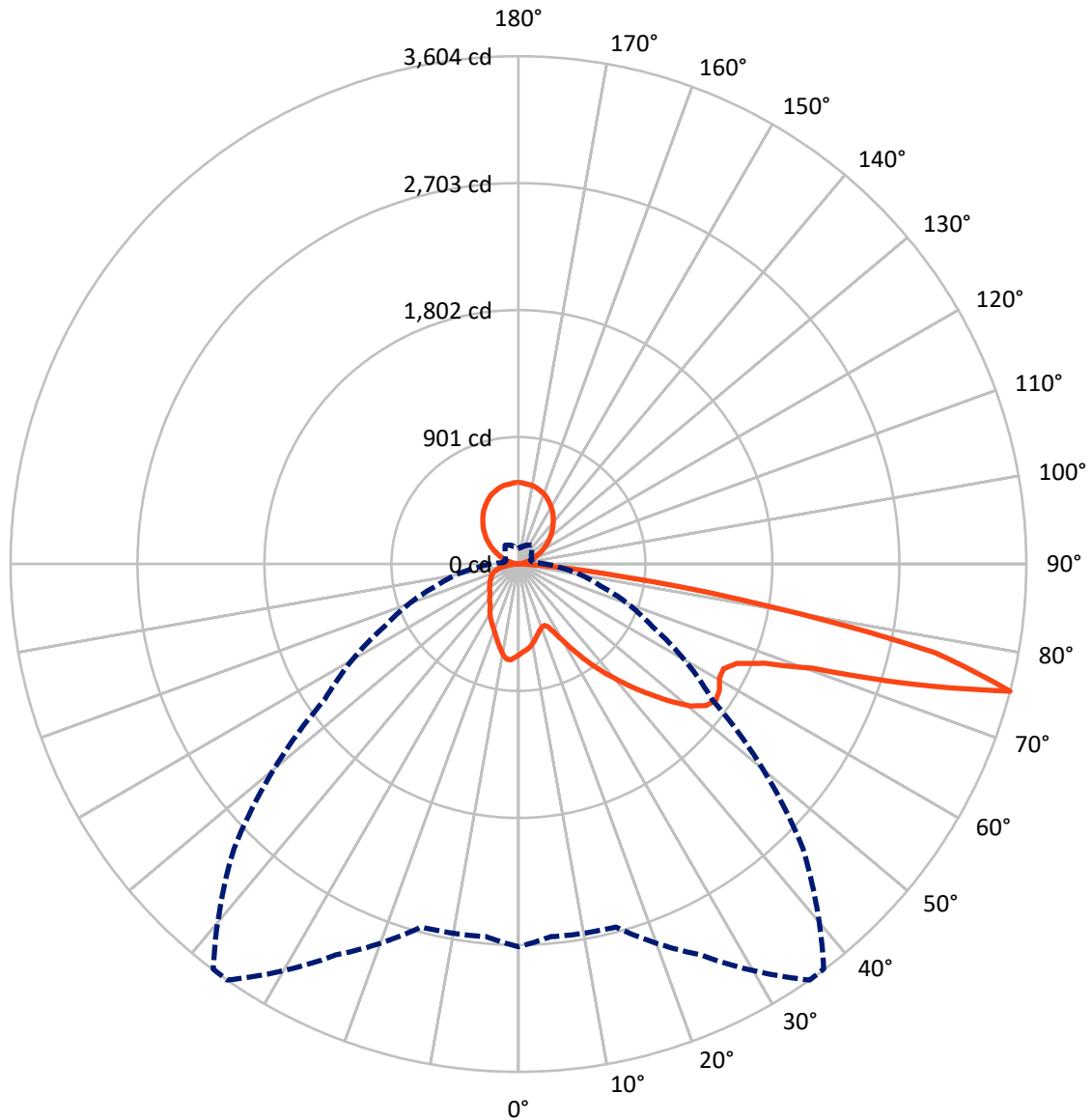
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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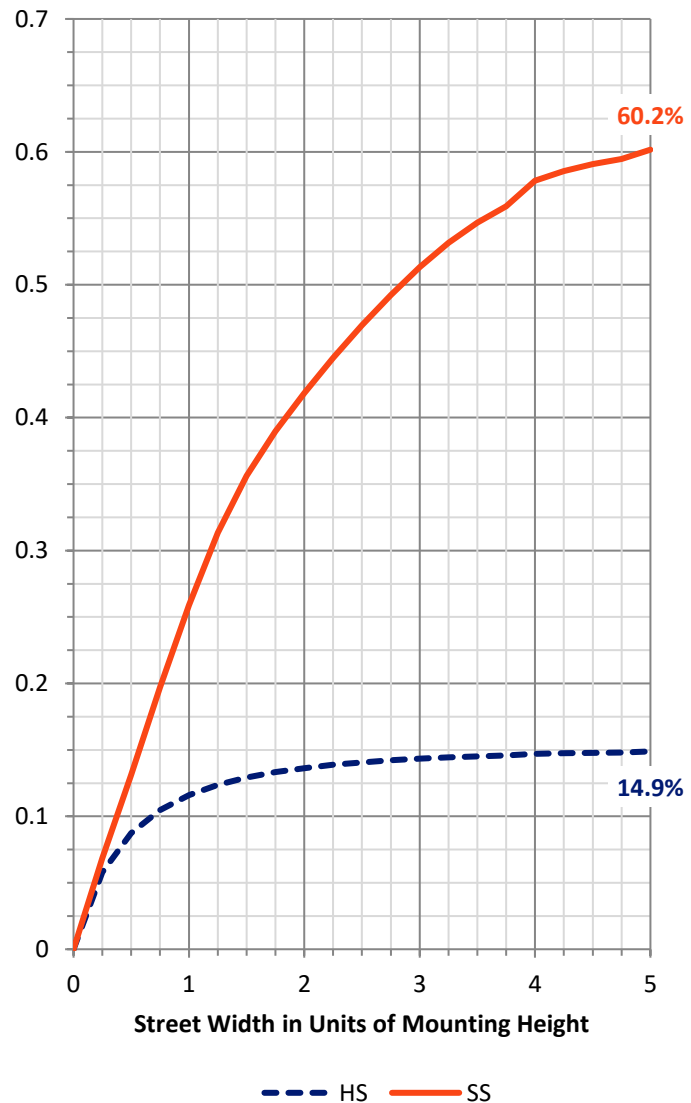
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	859.8	713.1	1572.9
	% Fixture	15.1	12.5	27.5
Street Side	Lumens	3424.2	713.1	4137.3
	% Fixture	60.0	12.5	72.5
Total	Lumens	4284.0	1426.2	5710.2
	% Fixture	75.0	25.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	1.1
10°-20°	159.4	2.8
20°-30°	252.2	4.4
30°-40°	407.1	7.1
40°-50°	602.3	10.5
50°-60°	774.4	13.6
60°-70°	958.8	16.8
70°-80°	966.2	16.9
80°-90°	103.2	1.8
90°-100°	4.7	0.1
100°-110°	69.0	1.2
110°-120°	153.0	2.7
120°-130°	223.9	3.9
130°-140°	265.6	4.7
140°-150°	269.3	4.7
150°-160°	231.1	4.0
160°-170°	155.1	2.7
170°-180°	54.3	1.0
0°-90°	4284.0	75.0
0°-180°	5710.2	100.0



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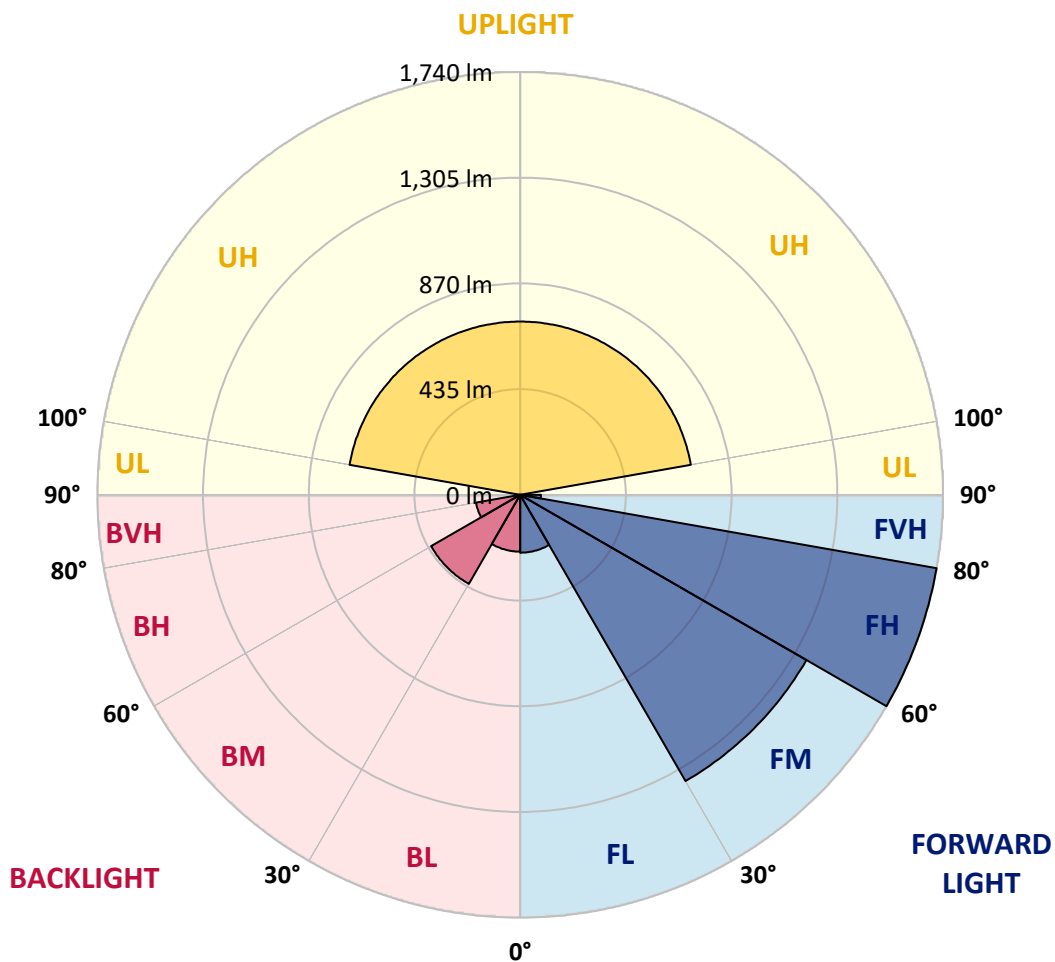
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	238.2	4.2			
FM	(30°-60°)	1360.3	23.8			
FH	(60°-80°)	1740.3	30.5			G1/1800
FVH	(80°-90°)	85.3	1.5			G1/100
BL	(0°-30°)	233.8	4.1	B1/500		
BM	(30°-60°)	423.4	7.4	B1/1000		
BH	(60°-80°)	184.7	3.2	B1/500		G1/500
BVH	(80°-90°)	17.9	0.3			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	12.5		U4/1000	

BUG Rating: B1-U5-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	643.6	643.6	643.6	643.6	643.6	643.6	643.6	643.6	643.6	643.6	643.6
2.5°	625.0	623.5	622.1	622.1	625.0	625.0	626.4	627.8	629.3	633.6	639.3
5°	607.8	606.4	605.0	606.4	610.7	610.7	615.0	617.8	620.7	627.8	635.0
7.5°	584.9	584.9	583.5	589.2	593.5	592.1	597.8	600.7	607.8	615.0	626.4
10°	554.9	554.9	554.9	562.0	569.2	569.2	573.5	580.6	586.4	596.4	610.7
12.5°	529.2	527.7	527.7	533.4	542.0	543.5	550.6	560.6	567.8	580.6	596.4
15°	520.6	517.7	510.6	510.6	514.9	514.9	526.3	540.6	552.0	564.9	583.5
17.5°	522.0	517.7	499.1	493.4	493.4	494.8	506.3	522.0	536.3	552.0	576.3
20°	534.9	527.7	493.4	480.5	477.7	479.1	489.1	504.8	522.0	543.5	570.6
22.5°	590.6	579.2	514.9	486.2	473.4	473.4	479.1	496.3	517.7	546.3	580.6
25°	719.4	700.8	586.4	534.9	496.3	492.0	482.0	499.1	524.9	559.2	609.2
27.5°	850.9	832.3	675.0	619.3	559.2	546.3	509.1	513.4	542.0	587.8	652.1
30°	961.1	945.3	786.6	722.2	642.1	627.8	570.6	543.5	572.1	627.8	716.5
32.5°	969.6	962.5	906.7	840.9	743.7	723.7	647.9	605.0	619.3	682.2	786.6
35°	1049.7	1044.0	1014.0	951.0	853.8	830.9	750.8	685.0	680.7	742.2	866.7
37.5°	1128.4	1121.2	1101.2	1058.3	968.2	949.6	886.7	780.9	750.8	812.3	945.3
40°	1202.8	1192.7	1167.0	1142.7	1076.9	1076.9	1009.7	872.4	818.0	873.8	1011.1
42.5°	1340.0	1308.6	1239.9	1221.3	1202.8	1202.8	1104.1	935.3	872.4	941.0	1074.0
45°	1471.6	1441.6	1348.6	1311.4	1321.5	1315.7	1179.9	971.1	921.0	1004.0	1134.1
47.5°	1576.0	1548.8	1454.5	1428.7	1457.3	1434.4	1242.8	999.7	982.5	1071.2	1184.2
50°	1669.0	1604.6	1513.1	1547.4	1583.2	1544.6	1298.6	1042.6	1044.0	1142.7	1257.1
52.5°	1541.7	1534.5	1554.6	1634.7	1669.0	1626.1	1348.6	1096.9	1109.8	1234.2	1340.0
55°	1388.7	1387.2	1504.5	1660.4	1701.9	1661.8	1381.5	1162.7	1178.4	1347.2	1444.4
57.5°	1358.6	1344.3	1424.4	1606.1	1681.8	1653.2	1398.7	1224.2	1244.2	1490.2	1547.4
60°	1455.9	1428.7	1415.8	1547.4	1638.9	1624.6	1420.1	1297.1	1324.3	1653.2	1643.2
62.5°	1667.5	1630.4	1538.8	1551.7	1634.7	1623.2	1471.6	1382.9	1414.4	1816.3	1697.6
65°	1947.9	1920.7	1774.8	1670.4	1701.9	1686.1	1564.6	1491.6	1508.8	1933.6	1636.1
67.5°	2255.3	2218.2	2059.4	1916.4	1876.3	1846.3	1711.9	1620.4	1558.9	1916.4	1471.6
70°	2602.9	2562.8	2425.5	2278.2	2209.6	2176.7	1969.3	1731.9	1540.3	1727.6	1161.3
72.5°	3030.5	2976.1	2900.3	2916.1	2904.6	2813.1	2379.8	1769.1	1404.4	1285.7	693.6
75°	2715.8	2654.3	2667.2	3060.5	3604.0	3599.7	2854.6	1677.6	1046.9	606.4	300.3
77.5°	973.9	1076.9	1588.9	2292.5	3021.9	3017.6	2209.6	1049.7	449.1	258.9	181.6
80°	244.6	248.8	394.7	941.0	1764.8	1750.5	1252.8	396.1	187.3	157.3	124.4
82.5°	78.7	84.4	144.4	324.6	755.1	738.0	389.0	130.1	117.3	101.5	75.8
85°	25.7	25.7	51.5	111.6	248.8	238.8	78.7	47.2	64.4	52.9	34.3
87.5°	0.0	0.0	1.4	2.9	5.7	2.9	0.0	2.9	8.6	10.0	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	3.0	4.0	5.0	9.0	13.0	7.0	5.0	4.0
100°	8.0	8.0	10.0	14.0	22.0	23.6	30.0	32.0	30.0	27.0	26.0
102.5°	28.0	28.0	32.0	38.0	45.0	46.0	50.0	51.0	50.0	48.0	49.0
105°	54.0	54.0	56.0	61.0	66.0	66.8	70.0	71.0	71.0	69.0	71.0
107.5°	78.0	77.0	80.0	84.0	88.0	88.6	91.0	93.0	92.0	91.0	92.0
110°	101.0	102.0	103.0	106.0	110.0	110.4	112.0	114.0	114.0	113.0	114.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
112.5°	124.0	124.0	126.0	129.0	132.0	132.4	134.0	136.0	136.0	135.0	137.0
115°	146.0	147.0	149.0	151.0	154.0	154.4	156.0	158.0	158.0	158.0	160.0
117.5°	169.0	170.0	172.0	174.0	177.0	177.4	179.0	180.0	181.0	180.0	182.0
120°	193.0	195.0	196.0	198.0	201.0	201.2	202.0	204.0	204.0	204.0	206.0
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	227.0	228.0	228.0	229.0	233.0
125°	244.0	246.0	247.0	248.0	251.0	251.2	252.0	253.0	254.0	254.0	257.0
127.5°	267.0	269.0	270.0	272.0	274.0	274.4	276.0	278.0	277.0	278.0	281.0
130°	290.0	292.0	293.0	294.0	298.0	298.2	299.0	301.0	301.0	302.0	305.0
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	322.0	325.0	325.0	326.0	329.0
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	348.0	348.0	349.0	351.0
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	369.0	369.0	370.0	374.0
140°	382.0	383.0	385.0	386.0	388.0	388.2	389.0	390.0	390.0	392.0	396.0
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	412.0	412.0	413.0	416.0
145°	425.0	426.0	428.0	428.0	431.0	431.2	432.0	434.0	433.0	434.0	437.0
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	453.0	454.0	452.0	453.0	456.0
150°	461.0	462.0	464.0	465.0	469.0	469.2	470.0	471.0	469.0	469.0	473.0
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	486.0	487.0	486.0	486.0	489.0
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	504.0	503.0	504.0	507.0
157.5°	513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	517.0	518.0	523.0
160°	525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	530.0	530.0	533.0
162.5°	535.0	536.0	539.0	538.0	541.0	541.0	541.0	542.0	540.0	538.0	540.0
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	553.0	550.0	548.0	550.0
167.5°	555.0	556.0	559.0	558.0	561.0	560.8	560.0	560.0	558.0	559.0	563.0
170°	562.0	563.0	566.0	565.0	567.0	566.8	566.0	565.0	564.0	566.0	571.0
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.0	569.0	567.0	568.0	571.0
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	573.0	570.0	568.0	571.0
177.5°	572.0	573.0	575.0	574.0	578.0	577.8	577.0	577.0	574.0	574.0	577.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	643.6	643.6	643.6	643.6	643.6	643.6	643.6	643.6	643.6	643.6	643.6
2.5°	643.6	642.1	647.9	652.1	653.6	657.9	662.2	665.0	663.6	662.2	662.2
5°	642.1	643.6	653.6	662.2	669.3	676.5	682.2	685.0	683.6	683.6	683.6
7.5°	633.6	639.3	650.7	665.0	675.0	679.3	680.7	676.5	673.6	669.3	669.3
10°	619.3	627.8	646.4	662.2	666.4	660.7	652.1	643.6	632.1	625.0	625.0
12.5°	607.8	617.8	640.7	653.6	647.9	633.6	615.0	600.7	589.2	580.6	579.2
15°	597.8	610.7	635.0	637.8	625.0	600.7	576.3	560.6	547.7	542.0	542.0
17.5°	590.6	607.8	629.3	620.7	594.9	563.5	540.6	527.7	517.7	512.0	510.6
20°	592.1	613.5	623.5	599.2	562.0	529.2	507.7	500.6	493.4	490.5	490.5
22.5°	607.8	627.8	622.1	580.6	532.0	494.8	480.5	479.1	476.2	473.4	471.9
25°	642.1	656.4	626.4	562.0	500.6	463.4	456.2	460.5	459.1	456.2	456.2
27.5°	689.3	692.2	633.6	543.5	466.2	433.3	433.3	440.5	437.6	433.3	436.2
30°	746.5	730.8	636.4	513.4	426.2	404.7	409.0	413.3	410.5	404.7	404.7
32.5°	808.0	770.8	636.4	474.8	387.6	379.0	380.4	381.8	376.1	369.0	369.0
35°	868.1	809.5	629.3	429.0	357.5	353.2	351.8	357.5	353.2	343.2	343.2
37.5°	925.3	839.5	610.7	381.8	334.7	333.2	337.5	334.7	328.9	314.6	311.8
40°	965.3	859.5	573.5	343.2	316.1	324.6	321.8	306.1	297.5	287.5	287.5
42.5°	1001.1	869.5	527.7	313.2	303.2	314.6	303.2	283.2	271.7	270.3	271.7
45°	1034.0	878.1	483.4	288.9	287.5	303.2	288.9	267.4	254.6	254.6	256.0
47.5°	1065.5	886.7	439.1	266.0	268.9	286.0	277.4	256.0	243.1	234.5	234.5
50°	1115.5	906.7	374.7	241.7	247.4	271.7	268.9	244.6	230.3	217.4	214.5
52.5°	1175.6	941.0	304.6	216.0	231.7	258.9	258.9	234.5	218.8	201.7	198.8
55°	1255.7	978.2	244.6	197.4	216.0	244.6	248.8	230.3	207.4	191.6	188.8
57.5°	1335.8	991.1	197.4	178.8	195.9	230.3	241.7	221.7	194.5	183.1	181.6
60°	1391.5	949.6	165.9	163.0	181.6	213.1	231.7	211.7	185.9	174.5	174.5
62.5°	1382.9	823.8	148.7	153.0	170.2	200.2	223.1	203.1	180.2	173.0	171.6
65°	1261.4	622.1	134.4	144.4	160.2	187.3	214.5	198.8	177.3	170.2	167.3
67.5°	1062.6	413.3	124.4	135.9	150.2	177.3	207.4	193.1	168.8	164.5	161.6
70°	769.4	241.7	114.4	127.3	140.2	165.9	197.4	181.6	158.7	155.9	148.7
72.5°	416.2	151.6	103.0	115.8	127.3	151.6	181.6	167.3	145.9	134.4	130.1
75°	190.2	110.1	91.5	103.0	111.6	133.0	163.0	147.3	130.1	115.8	113.0
77.5°	127.3	82.9	77.2	88.7	93.0	111.6	144.4	117.3	101.5	91.5	88.7
80°	87.2	61.5	62.9	72.9	71.5	88.7	108.7	94.4	80.1	82.9	75.8
82.5°	55.8	42.9	48.6	51.5	50.1	67.2	84.4	71.5	60.1	50.1	42.9
85°	24.3	22.9	28.6	30.0	30.0	37.2	44.3	35.8	27.2	20.0	20.0
87.5°	1.4	2.9	2.9	4.3	2.9	1.4	0.0	0.0	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
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.0	4.0	5.0	7.0	13.0	9.0	4.0	3.0	2.0	2.0	2.0
100°	25.0	26.0	27.0	30.0	32.0	30.0	22.0	14.0	10.0	8.0	8.0
102.5°	48.0	49.0	48.0	50.0	51.0	50.0	45.0	38.0	32.0	28.0	28.0
105°	69.0	71.0	69.0	71.0	71.0	70.0	66.0	61.0	56.0	54.0	54.0
107.5°	91.0	92.0	91.0	92.0	93.0	91.0	88.0	84.0	80.0	77.0	78.0
110°	113.0	114.0	113.0	114.0	114.0	112.0	110.0	106.0	103.0	102.0	101.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	135.0	137.0	135.0	136.0	136.0	134.0	132.0	129.0	126.0	124.0	124.0
115°	159.0	160.0	158.0	158.0	158.0	156.0	154.0	151.0	149.0	147.0	146.0
117.5°	180.0	182.0	180.0	181.0	180.0	179.0	177.0	174.0	172.0	170.0	169.0
120°	204.0	206.0	204.0	204.0	204.0	202.0	201.0	198.0	196.0	195.0	193.0
122.5°	232.0	233.0	229.0	228.0	228.0	227.0	226.0	223.0	221.0	220.0	219.0
125°	256.0	257.0	254.0	254.0	253.0	252.0	251.0	248.0	247.0	246.0	244.0
127.5°	278.0	281.0	278.0	277.0	278.0	276.0	274.0	272.0	270.0	269.0	267.0
130°	303.0	305.0	302.0	301.0	301.0	299.0	298.0	294.0	293.0	292.0	290.0
132.5°	327.0	329.0	326.0	325.0	325.0	322.0	321.0	318.0	317.0	314.0	313.0
135°	350.0	351.0	349.0	348.0	348.0	345.0	345.0	341.0	339.0	337.0	336.0
137.5°	372.0	374.0	370.0	369.0	369.0	367.0	367.0	364.0	363.0	360.0	359.0
140°	394.0	396.0	392.0	390.0	390.0	389.0	388.0	386.0	385.0	383.0	382.0
142.5°	415.0	416.0	413.0	412.0	412.0	410.0	410.0	407.0	408.0	406.0	404.0
145°	435.0	437.0	434.0	433.0	434.0	432.0	431.0	428.0	428.0	426.0	425.0
147.5°	453.0	456.0	453.0	452.0	454.0	453.0	452.0	448.0	447.0	444.0	444.0
150°	470.0	473.0	469.0	469.0	471.0	470.0	469.0	465.0	464.0	462.0	461.0
152.5°	486.0	489.0	486.0	486.0	487.0	486.0	485.0	482.0	483.0	480.0	479.0
155°	505.0	507.0	504.0	503.0	504.0	503.0	503.0	501.0	502.0	500.0	499.0
157.5°	520.0	523.0	518.0	517.0	519.0	519.0	519.0	516.0	517.0	515.0	513.0
160°	531.0	533.0	530.0	530.0	532.0	532.0	532.0	529.0	529.0	527.0	525.0
162.5°	537.0	540.0	538.0	540.0	542.0	541.0	541.0	538.0	539.0	536.0	535.0
165°	548.0	550.0	548.0	550.0	553.0	552.0	552.0	548.0	549.0	547.0	546.0
167.5°	561.0	563.0	559.0	558.0	560.0	560.0	561.0	558.0	559.0	556.0	555.0
170°	569.0	571.0	566.0	564.0	565.0	566.0	567.0	565.0	566.0	563.0	562.0
172.5°	568.0	571.0	568.0	567.0	569.0	568.0	569.0	567.0	569.0	566.0	565.0
175°	568.0	571.0	568.0	570.0	573.0	572.0	572.0	569.0	570.0	569.0	567.0
177.5°	574.0	577.0	574.0	574.0	577.0	577.0	578.0	574.0	575.0	573.0	572.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0

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