

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: P271494

Luminaire Tested: **ISS-AF-350-LED-E1-SL4-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29763)
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-SL4-7027
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCUCLED OPTICS-TYPE IV W/SPILL CONTROL
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1832.4 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

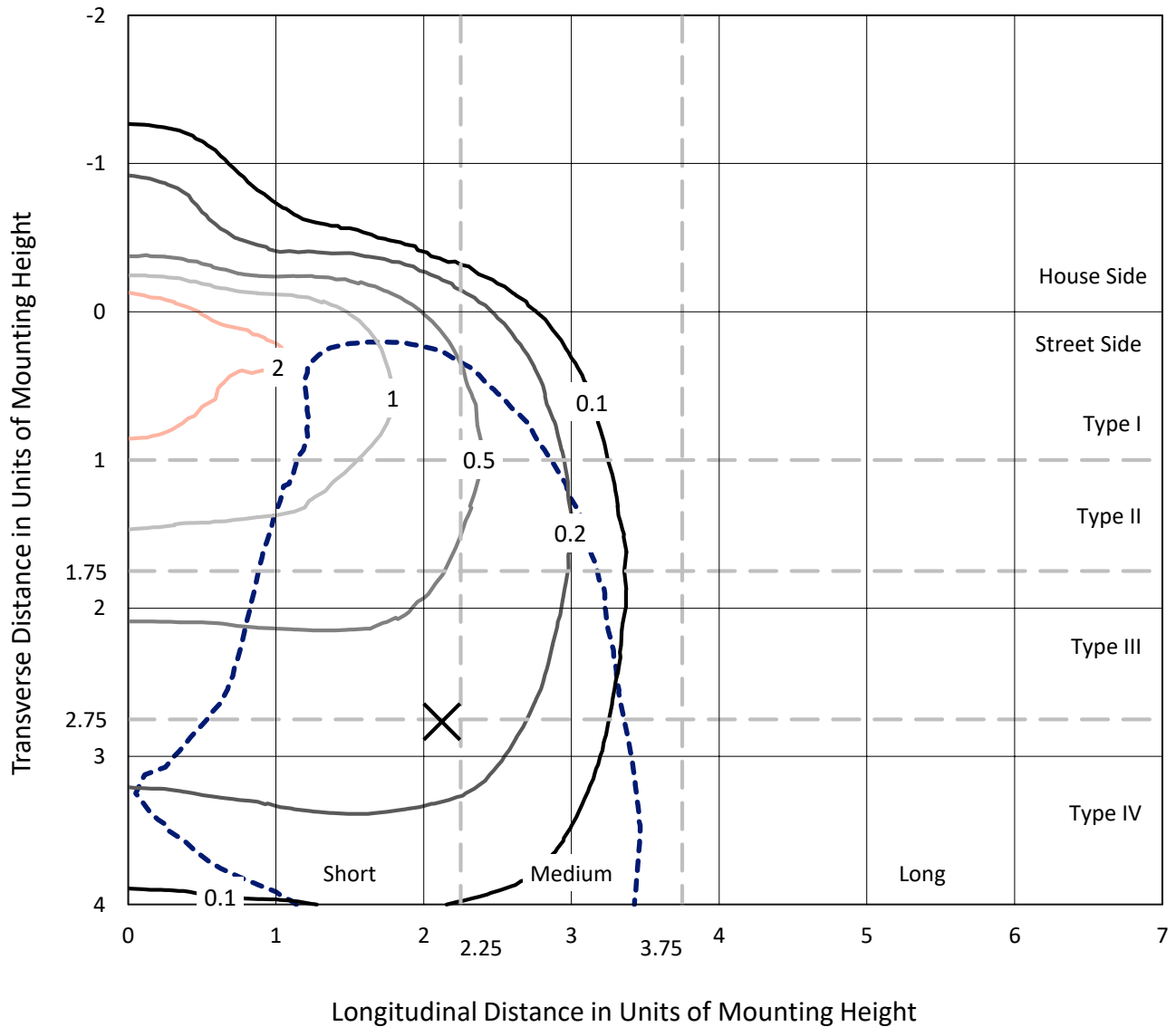
Input Watts (W): 20.09
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

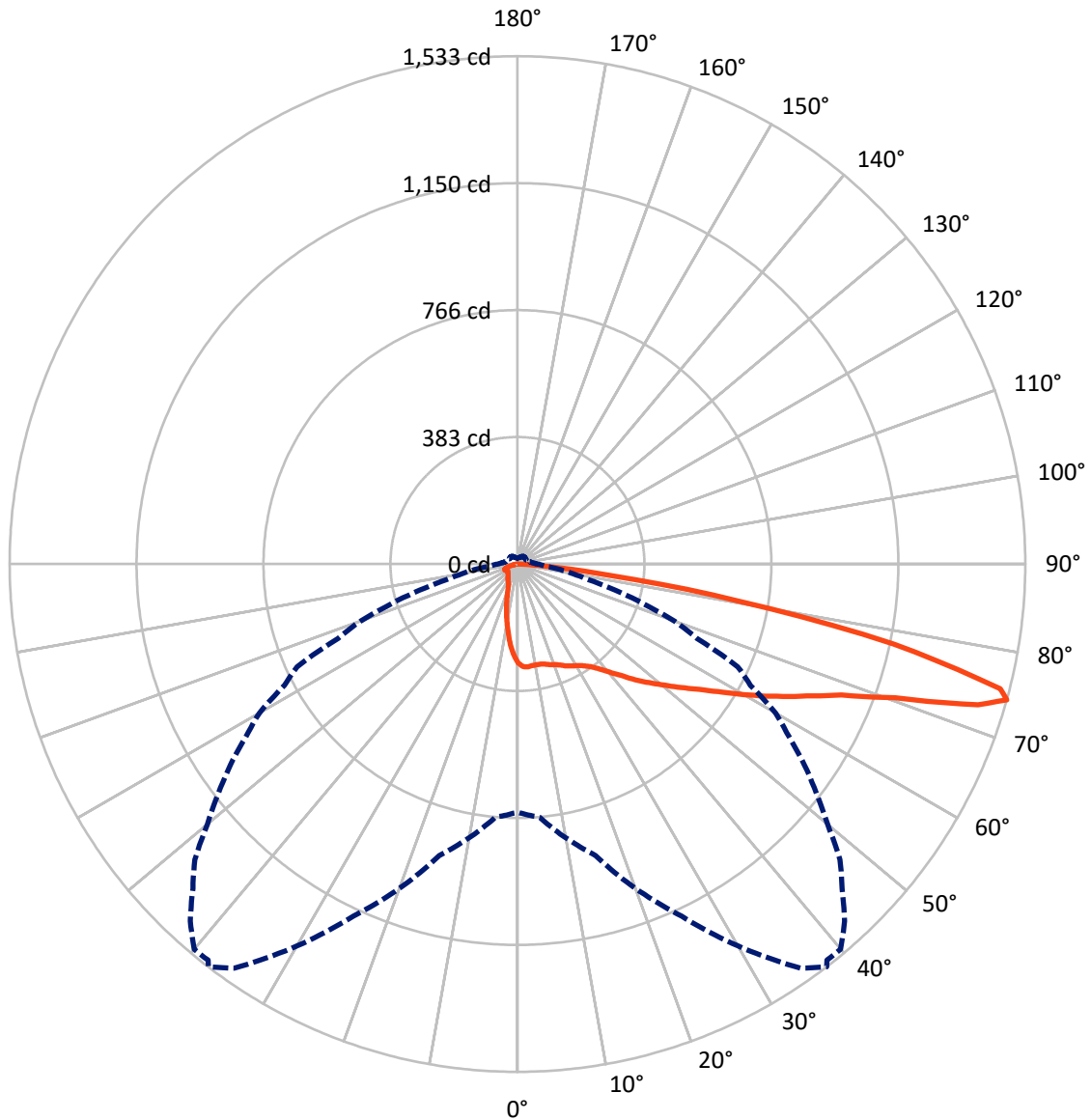
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 37.5-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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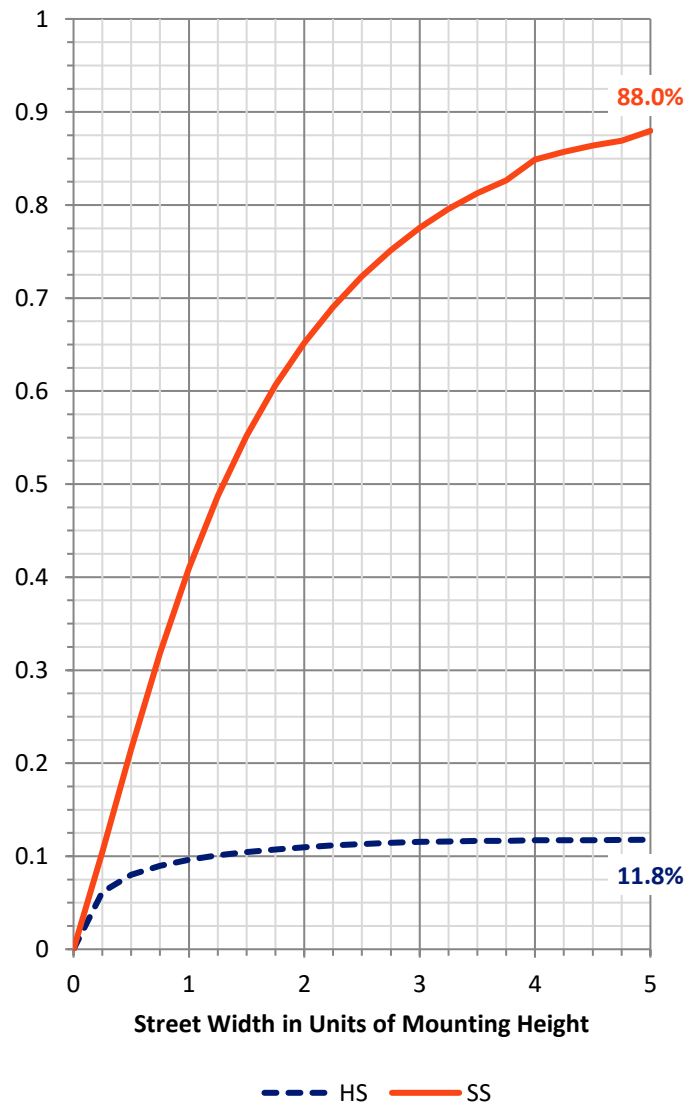
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	217.3	0.0	217.3
	% Fixture	11.9	0.0	11.9
Street Side	Lumens	1615.1	0.0	1615.1
	% Fixture	88.1	0.0	88.1
Total	Lumens	1832.4	0.0	1832.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.0	1.4
10°-20°	66.3	3.6
20°-30°	102.8	5.6
30°-40°	152.4	8.3
40°-50°	234.5	12.8
50°-60°	346.6	18.9
60°-70°	462.0	25.2
70°-80°	398.8	21.8
80°-90°	42.9	2.3
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°	1832.4	100.0
0°-180°	1832.4	100.0



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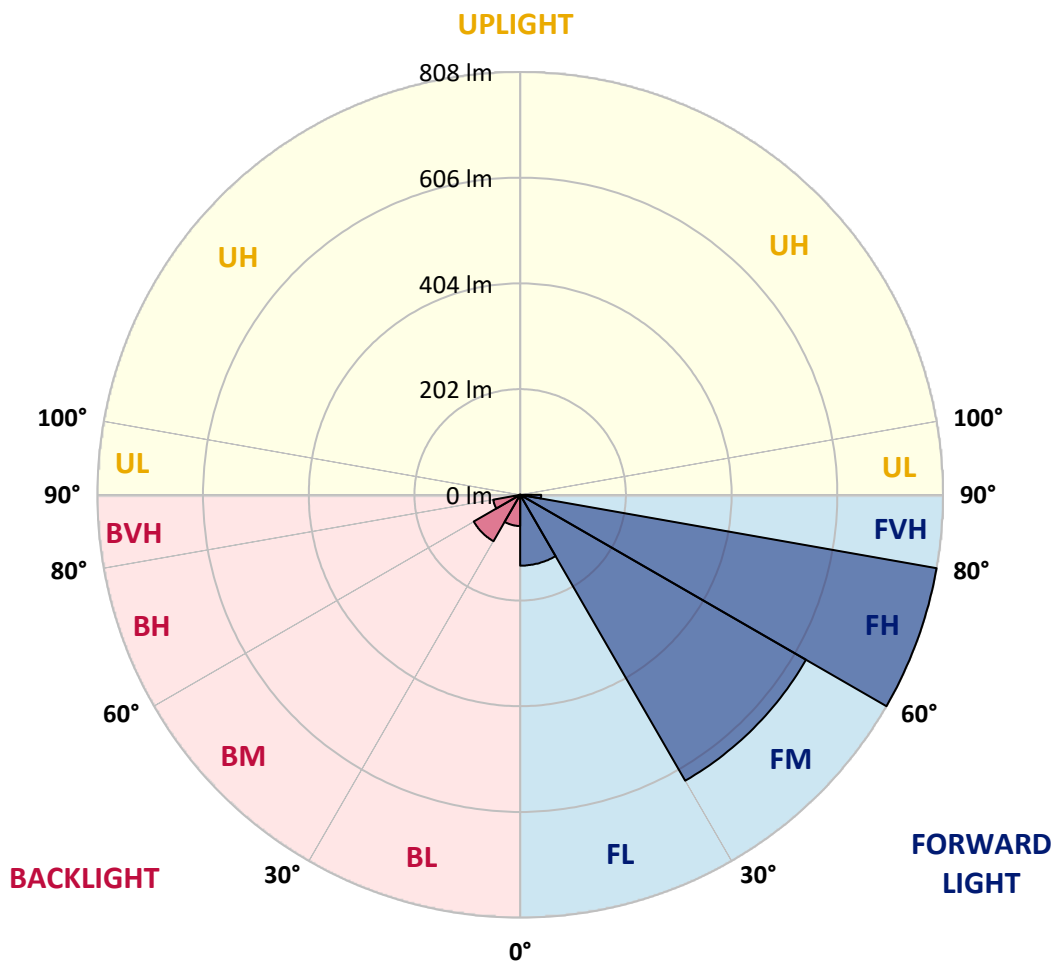
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	135.5	7.4			
FM (30°-60°)	631.1	34.4			
FH (60°-80°)	808.5	44.1			G1/1800
FVH (80°-90°)	40.1	2.2			G1/100
BL (0°-30°)	59.7	3.3	B0/110		
BM (30°-60°)	102.4	5.6	B0/220		
BH (60°-80°)	52.4	2.9	B0/110		G0/110
BVH (80°-90°)	2.8	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	38°	40°	42.5°	45°	47.5°
0°	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0
2.5°	316.1	315.5	314.0	313.4	312.0	309.9	312.0	309.3	307.8	309.3	306.5
5°	321.6	321.0	319.5	316.8	315.5	312.0	314.0	310.6	309.9	311.4	307.8
7.5°	322.3	321.0	318.9	315.5	314.0	309.9	311.4	307.2	305.9	307.2	305.2
10°	320.2	319.5	317.6	312.0	310.6	309.3	308.6	305.9	305.2	304.4	303.8
12.5°	316.8	316.8	315.5	313.4	312.7	309.9	310.6	307.8	308.6	307.2	305.9
15°	315.5	314.8	316.1	317.6	317.6	313.4	316.1	314.0	312.7	313.4	311.4
17.5°	314.0	314.8	319.5	322.3	323.7	319.5	323.7	319.5	316.8	320.2	316.8
20°	313.4	315.5	323.7	329.8	330.5	323.7	330.5	323.7	323.7	327.7	321.6
22.5°	316.8	320.2	331.8	338.8	340.1	331.1	339.4	330.5	330.5	333.9	327.7
25°	327.7	331.1	344.2	351.7	350.4	340.7	348.4	339.4	338.8	342.8	334.6
27.5°	342.2	346.9	359.2	366.1	361.3	348.4	359.2	346.3	346.3	352.3	341.4
30°	362.6	366.1	377.0	377.6	371.6	355.8	368.1	353.8	351.7	362.6	349.0
32.5°	385.2	388.0	396.2	391.4	382.5	366.1	380.4	363.4	362.6	374.3	358.5
35°	409.2	412.0	414.7	406.4	398.3	380.4	396.2	379.1	378.4	391.4	376.3
37.5°	433.8	433.8	433.8	424.2	418.8	401.6	416.1	402.4	400.9	414.7	400.3
40°	453.6	455.0	452.9	444.1	441.3	429.0	441.3	429.0	431.1	443.4	431.7
42.5°	470.2	471.5	472.1	464.6	467.4	460.5	470.2	461.2	461.9	475.6	468.7
45°	486.5	485.8	491.4	489.3	497.4	498.1	503.6	500.2	501.5	511.9	509.8
47.5°	503.6	500.2	506.4	515.3	530.3	535.1	538.5	539.9	545.3	550.1	555.0
50°	520.1	516.6	520.7	540.6	564.6	574.7	575.5	582.3	588.5	595.3	604.9
52.5°	537.2	534.4	538.5	566.7	604.9	619.2	617.2	628.8	637.8	645.3	661.1
55°	555.0	552.2	556.3	598.0	647.9	667.8	665.7	682.3	699.3	702.0	719.8
57.5°	572.0	568.6	580.2	635.0	699.3	729.4	719.8	745.1	761.7	760.2	784.8
60°	590.5	587.9	606.3	680.2	763.6	802.6	788.3	821.8	833.4	828.7	852.0
62.5°	608.3	607.6	638.4	732.8	841.6	879.4	866.2	895.7	904.0	897.8	909.4
65°	624.7	628.8	673.3	785.6	916.9	960.0	942.2	971.7	981.2	976.5	996.3
67.5°	652.1	656.9	716.4	852.6	1010.0	1054.4	1039.4	1070.2	1084.5	1083.2	1105.1
70°	692.4	701.4	780.1	947.7	1151.5	1208.4	1200.1	1237.9	1272.7	1270.0	1291.9
72.5°	762.9	777.3	884.7	1095.6	1384.3	1453.4	1443.8	1465.0	1458.8	1408.9	1368.5
74°	749.3	767.1	910.7	1172.8	1488.9	1532.8	1517.0	1517.7	1461.6	1385.6	1320.6
75°	699.3	717.7	873.2	1163.2	1481.5	1505.4	1482.8	1454.7	1387.1	1309.7	1229.6
77.5°	479.6	503.6	641.7	939.4	1192.7	1159.8	1154.3	1101.1	1011.3	924.4	821.8
80°	245.7	262.8	331.8	491.4	707.5	674.6	685.7	642.5	568.0	504.9	400.3
82.5°	58.9	62.9	97.8	190.2	306.5	280.5	284.7	251.9	208.7	170.4	132.1
85°	30.8	34.9	47.9	52.7	80.8	83.5	81.5	78.7	64.3	54.1	47.3
87.5°	0.0	0.0	0.0	1.3	0.7	0.0	0.7	0.0	0.0	0.7	1.3
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):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0
2.5°	308.6	307.2	308.6	304.4	306.5	303.1	304.4	301.1	302.5	299.8	300.4
5°	309.9	306.5	308.6	305.2	305.9	303.1	302.5	301.1	300.4	298.3	297.0
7.5°	306.5	303.8	303.1	301.8	299.8	300.4	297.7	297.0	294.9	294.9	290.8
10°	303.1	303.8	299.8	301.1	297.7	298.3	293.6	294.9	291.5	294.3	288.1
12.5°	305.9	306.5	303.1	305.2	299.0	300.4	296.4	298.3	293.6	297.0	289.4
15°	312.0	311.4	309.9	309.9	303.8	306.5	301.8	303.1	298.3	302.5	294.3
17.5°	317.6	316.8	314.8	314.0	309.9	310.6	305.9	308.6	303.1	306.5	298.3
20°	323.7	320.2	319.5	318.9	314.0	314.0	310.6	312.0	306.5	310.6	301.1
22.5°	328.4	325.7	325.1	322.3	318.9	320.2	315.5	316.1	310.6	314.8	306.5
25°	336.0	332.6	332.6	328.4	326.4	325.7	323.0	325.1	319.5	322.3	314.8
27.5°	346.3	338.8	341.4	337.3	336.0	335.2	333.9	335.2	331.1	333.2	325.7
30°	355.8	346.3	350.4	344.9	347.6	344.9	346.9	344.9	344.9	344.9	341.4
32.5°	368.8	357.2	365.4	357.2	362.6	358.5	365.4	361.3	364.0	363.4	361.9
35°	387.3	373.7	385.2	374.3	383.8	378.4	388.0	385.9	391.4	388.7	391.4
37.5°	412.0	397.6	411.2	400.9	412.6	404.3	418.1	416.7	428.3	424.2	428.3
40°	442.8	432.4	442.8	435.2	447.5	444.1	458.5	459.1	472.1	470.2	474.8
42.5°	476.9	469.5	479.6	475.6	487.9	490.7	507.0	511.1	523.4	526.9	527.6
45°	513.9	512.6	520.7	524.8	537.2	545.3	559.7	570.0	583.7	591.3	589.8
47.5°	556.9	562.5	568.0	578.1	589.2	606.3	620.5	633.7	649.4	654.1	656.2
50°	605.5	615.2	619.9	634.3	645.3	666.5	686.3	702.7	719.8	717.7	719.1
52.5°	656.9	669.1	676.1	693.1	707.5	732.2	749.3	765.0	786.3	780.8	778.7
55°	713.7	732.2	737.7	756.8	769.1	794.4	809.6	836.8	845.8	840.3	828.7
57.5°	773.9	795.8	802.0	828.0	834.2	861.5	874.5	892.9	900.6	891.6	876.6
60°	842.3	862.1	867.0	890.2	898.5	923.7	933.2	949.8	955.3	933.2	912.0
62.5°	910.7	931.4	934.0	954.6	962.7	984.6	995.6	1005.1	1002.5	970.3	943.6
65°	988.8	1008.5	1015.4	1035.9	1040.8	1057.1	1066.1	1055.1	1049.0	1000.4	970.3
67.5°	1112.6	1133.8	1136.5	1141.4	1140.7	1132.4	1128.3	1090.7	1063.3	973.8	930.6
70°	1275.4	1259.7	1228.9	1193.4	1167.3	1120.8	1093.5	1016.2	958.6	858.2	785.6
72.5°	1304.9	1253.6	1177.6	1116.8	1053.7	980.5	921.8	804.7	723.9	618.6	541.9
74°	1221.4	1138.0	1057.8	972.3	899.8	793.0	733.6	585.8	505.7	398.9	305.9
75°	1120.8	1023.0	932.6	823.8	756.1	628.2	572.0	412.6	332.6	236.7	159.4
77.5°	715.1	598.0	511.9	385.9	333.2	230.0	168.3	104.7	77.3	67.7	58.9
80°	321.0	228.6	181.4	125.2	104.7	80.1	67.7	54.8	49.9	43.7	41.7
82.5°	102.7	82.1	78.1	69.8	69.8	56.1	47.9	37.5	34.2	29.5	26.7
85°	44.5	41.7	43.1	39.6	40.3	30.8	24.6	18.4	18.4	12.9	11.7
87.5°	1.3	0.0	0.7	0.0	1.3	0.0	0.7	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):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0
2.5°	297.7	299.0	298.3	295.6	294.9	292.8	288.1	288.7	286.0	288.1	284.7
5°	294.9	294.3	291.5	288.1	284.7	280.5	277.1	275.8	273.1	271.6	269.6
7.5°	290.8	288.1	283.2	277.8	273.1	267.5	264.8	260.0	258.6	254.0	253.2
10°	289.4	284.7	279.1	272.4	264.1	255.8	255.2	247.0	246.3	238.8	236.7
12.5°	292.2	286.0	279.1	271.0	261.4	249.8	249.8	237.4	236.7	226.6	223.0
15°	297.7	290.2	281.2	271.6	259.3	245.0	244.2	230.0	228.6	216.2	212.1
17.5°	302.5	292.2	284.0	271.0	256.6	240.2	236.7	222.4	219.6	205.4	199.9
20°	305.9	294.3	284.7	269.6	251.9	232.6	227.9	212.8	206.6	192.2	184.7
22.5°	309.9	299.0	286.0	269.0	249.1	226.6	216.2	202.6	193.7	178.7	168.3
25°	316.1	306.5	290.8	271.0	247.0	220.4	206.6	192.2	180.0	164.9	149.8
27.5°	325.7	316.1	297.7	273.7	246.3	214.2	199.2	181.4	166.3	149.8	132.8
30°	339.4	329.0	309.3	281.2	247.0	209.3	190.9	171.8	154.0	134.7	117.0
32.5°	357.2	349.0	324.4	289.4	249.8	205.4	183.3	161.4	139.6	121.1	105.4
35°	381.8	376.3	345.6	305.2	256.6	203.3	175.9	151.9	127.3	108.9	91.6
37.5°	418.1	410.5	376.3	327.7	267.5	201.8	170.4	140.2	117.0	97.2	82.8
40°	464.0	453.6	412.6	355.1	284.7	202.6	165.6	131.4	108.2	86.9	75.3
42.5°	518.7	503.6	457.1	388.7	301.8	203.9	162.9	123.2	101.3	78.7	69.8
45°	580.2	563.1	509.8	430.4	326.4	207.3	160.8	116.3	95.1	72.5	66.4
47.5°	640.5	623.3	563.9	472.1	351.7	213.4	162.1	112.2	91.0	69.1	62.3
50°	699.3	681.5	611.7	509.8	373.7	221.7	167.6	112.8	90.3	67.7	60.3
52.5°	751.3	729.4	652.8	539.3	389.3	227.2	172.5	114.9	91.0	67.0	59.6
55°	803.4	775.2	685.7	562.5	398.9	227.9	172.5	115.6	91.6	67.0	58.9
57.5°	842.3	810.2	711.0	576.2	402.4	224.5	168.3	112.2	87.6	66.4	57.5
60°	867.0	832.8	728.7	585.1	397.6	210.0	146.4	99.3	77.3	61.5	53.4
62.5°	887.4	852.6	734.3	570.0	357.2	166.9	114.3	80.8	64.3	54.8	49.2
65°	892.3	850.5	695.8	503.6	279.1	115.6	82.8	63.6	52.7	48.6	44.5
67.5°	819.7	769.8	585.1	394.2	190.2	79.4	61.5	52.0	45.2	43.1	41.7
70°	666.5	611.7	428.3	257.9	106.1	55.4	47.3	43.1	39.0	39.0	36.9
72.5°	429.7	373.0	219.6	110.1	54.1	42.4	38.3	36.9	33.6	34.2	32.2
74°	219.6	171.0	89.7	58.2	44.5	37.5	34.2	33.6	30.1	30.8	28.7
75°	111.5	88.2	62.9	48.6	41.1	35.7	31.5	31.5	27.4	28.0	26.1
77.5°	52.0	49.9	43.1	38.3	34.9	30.1	26.1	25.3	21.2	22.5	19.9
80°	36.3	36.3	33.6	32.2	28.7	24.6	19.9	19.9	15.7	16.3	14.4
82.5°	20.5	19.1	19.1	21.9	22.5	18.4	14.4	13.7	11.7	11.7	9.6
85°	8.9	10.3	12.3	15.0	16.3	14.4	10.3	9.6	6.2	6.2	3.4
87.5°	0.0	0.7	0.7	1.3	2.8	2.8	0.0	1.3	0.0	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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CANDELA DISTRIBUTION (continued):

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0
2.5°	286.0	282.6	284.7	281.2	282.6	279.1	280.5	278.5	276.5	273.7	273.1
5°	267.5	264.8	264.1	260.7	261.4	258.6	255.8	252.5	248.4	242.9	240.8
7.5°	247.0	246.3	241.6	239.5	236.7	234.0	229.2	223.8	215.5	208.0	203.3
10°	229.2	227.2	220.4	216.9	212.8	209.3	202.6	195.0	183.3	171.8	165.6
12.5°	214.2	211.4	202.6	198.4	192.2	188.1	180.0	170.4	154.0	137.5	130.1
15°	201.8	197.8	187.5	181.4	173.1	169.0	160.1	146.4	126.6	109.4	99.3
17.5°	187.5	182.0	171.0	163.5	155.4	147.8	138.9	124.5	102.0	86.1	76.0
20°	171.8	164.9	153.3	143.0	134.0	127.3	118.4	104.0	81.5	69.1	63.6
22.5°	155.4	144.4	134.0	125.2	114.9	108.2	99.3	86.1	69.1	62.3	60.3
25°	138.2	125.9	115.6	106.8	97.2	91.0	83.5	73.2	62.9	60.8	60.8
27.5°	121.1	108.9	99.3	90.3	82.1	78.1	71.1	64.3	59.6	60.3	60.8
30°	105.4	93.1	84.2	77.3	69.8	67.0	61.5	57.5	56.9	58.9	59.6
32.5°	91.6	80.8	72.5	67.0	60.8	59.6	54.8	52.7	54.8	57.5	56.9
35°	80.1	71.1	62.9	59.6	54.1	53.4	49.9	48.6	51.3	54.8	54.8
37.5°	71.1	62.9	56.9	54.1	49.9	49.2	46.5	45.2	47.3	52.0	53.4
40°	63.6	58.9	52.7	49.9	47.3	45.8	44.5	43.1	43.7	49.9	50.7
42.5°	58.9	55.4	49.9	48.6	45.2	44.5	42.4	41.1	41.7	46.5	48.6
45°	55.4	52.7	47.9	47.3	43.7	43.1	41.1	39.6	40.3	44.5	46.5
47.5°	52.7	49.9	45.8	44.5	42.4	41.7	40.3	39.0	39.0	43.1	45.2
50°	51.3	48.6	44.5	43.1	41.1	40.3	39.0	37.5	38.3	41.7	43.1
52.5°	50.7	47.3	43.7	41.7	40.3	39.0	37.5	36.3	36.9	40.3	41.7
55°	50.7	46.5	43.7	41.7	39.6	37.5	36.9	34.9	36.3	39.0	41.1
57.5°	50.7	46.5	43.7	41.7	40.3	38.3	36.9	35.7	36.3	39.0	41.1
60°	49.2	45.8	44.5	42.4	41.7	39.6	39.0	37.5	37.5	41.1	44.5
62.5°	47.3	45.2	44.5	43.1	43.1	41.7	41.7	40.3	40.3	44.5	47.9
65°	44.5	43.1	43.7	43.1	43.1	43.1	42.4	42.4	42.4	45.8	49.9
67.5°	41.7	41.1	41.7	41.7	42.4	41.7	42.4	41.7	41.7	45.2	49.2
70°	37.5	37.5	38.3	37.5	38.3	38.3	39.0	39.0	39.0	41.1	45.2
72.5°	32.9	32.2	32.9	32.2	33.6	32.2	33.6	34.2	33.6	34.2	36.3
74°	29.5	28.7	29.5	28.7	30.1	28.7	29.5	29.5	28.7	23.3	19.9
75°	26.7	26.1	26.7	26.1	27.4	26.1	27.4	26.7	25.3	17.1	16.3
77.5°	21.2	19.1	21.2	19.1	20.5	18.4	19.9	17.1	12.9	12.3	12.3
80°	15.7	13.7	15.0	12.9	12.3	9.6	10.3	9.6	8.9	9.6	9.6
82.5°	9.6	6.8	8.3	6.2	7.5	5.5	6.8	6.2	5.5	5.5	5.5
85°	4.9	3.4	4.9	2.8	4.1	2.8	3.4	3.4	2.1	2.1	2.1
87.5°	0.7	0.0	1.3	0.0	1.3	0.0	0.7	0.7	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°	299.0	299.0
2.5°	271.0	271.6
5°	237.4	239.5
7.5°	200.5	201.8
10°	161.4	162.9
12.5°	124.5	125.9
15°	93.7	92.3
17.5°	71.9	70.4
20°	60.8	60.8
22.5°	59.6	58.9
25°	60.3	59.6
27.5°	60.3	59.6
30°	58.9	58.2
32.5°	56.9	56.1
35°	54.8	54.8
37.5°	53.4	54.1
40°	51.3	52.0
42.5°	49.2	49.9
45°	47.3	47.9
47.5°	45.2	45.2
50°	42.4	42.4
52.5°	41.7	41.7
55°	41.7	41.7
57.5°	43.1	43.1
60°	47.3	47.9
62.5°	55.4	56.1
65°	63.6	64.9
67.5°	64.3	66.4
70°	62.3	64.3
72.5°	43.1	43.1
74°	19.1	18.4
75°	16.3	15.7
77.5°	12.3	12.3
80°	8.9	8.3
82.5°	4.9	4.9
85°	1.3	1.3
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)