

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: P228364

Luminaire Tested: **ISS-AF-350-LED-E1-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228364
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-SL4-7030
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV W/SPILL CONTROL
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1867 lumens
Efficiency: N/A
Efficacy: 92.9 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

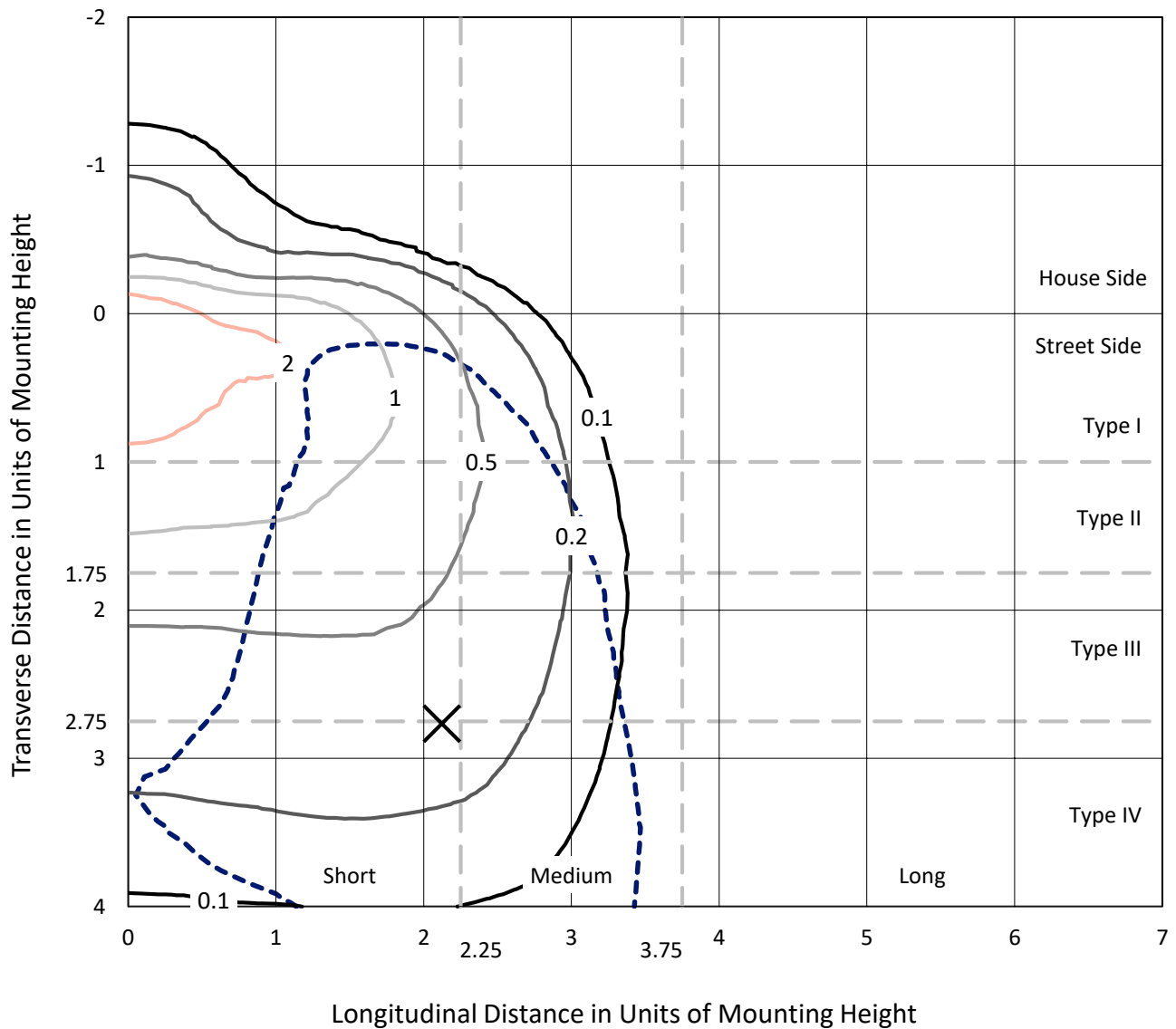
Input Watts (W): 20.09
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

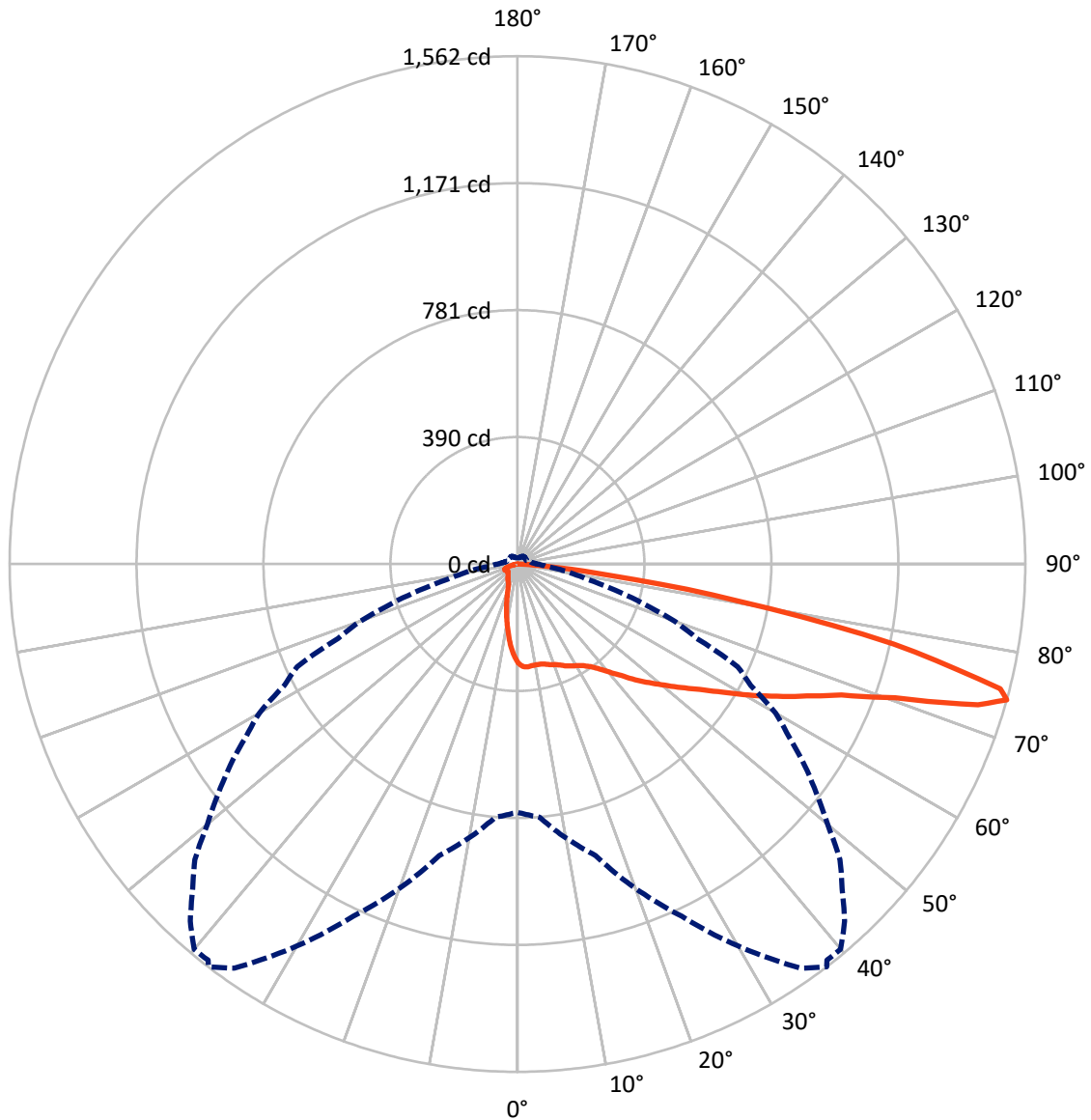
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 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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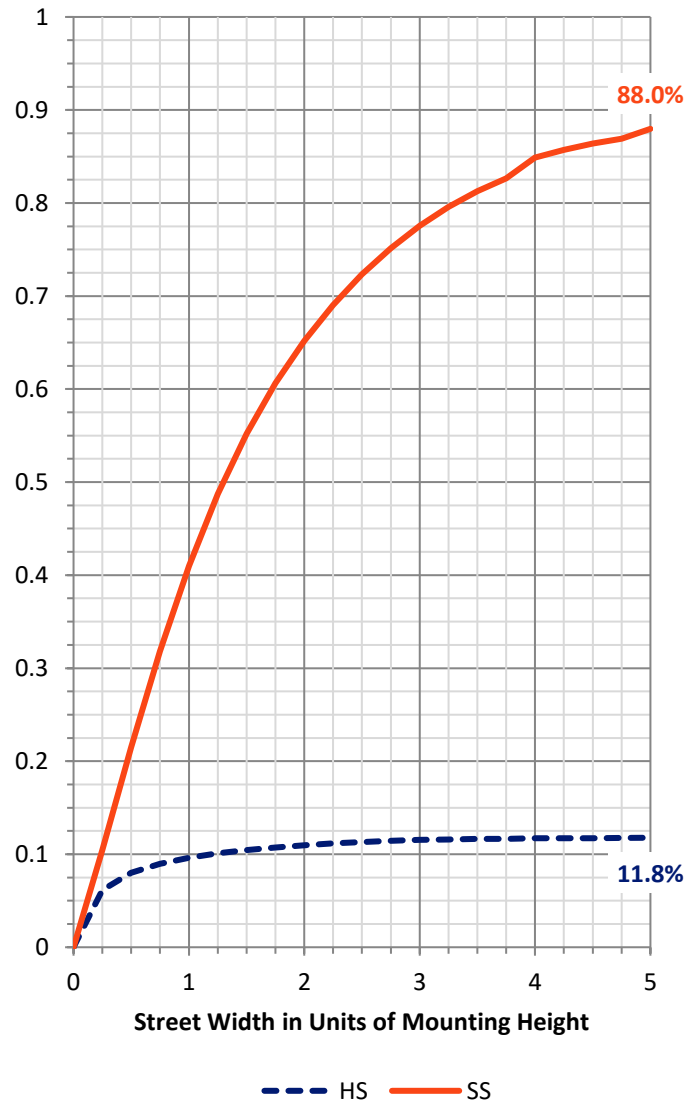
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	221.4	0.0	221.4
	% Fixture	11.9	0.0	11.9
Street Side	Lumens	1645.6	0.0	1645.6
	% Fixture	88.1	0.0	88.1
Total	Lumens	1867.0	0.0	1867.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.5	1.4
10°-20°	67.6	3.6
20°-30°	104.7	5.6
30°-40°	155.3	8.3
40°-50°	238.9	12.8
50°-60°	353.2	18.9
60°-70°	470.7	25.2
70°-80°	406.3	21.8
80°-90°	43.7	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°	1867.0	100.0
0°-180°	1867.0	100.0



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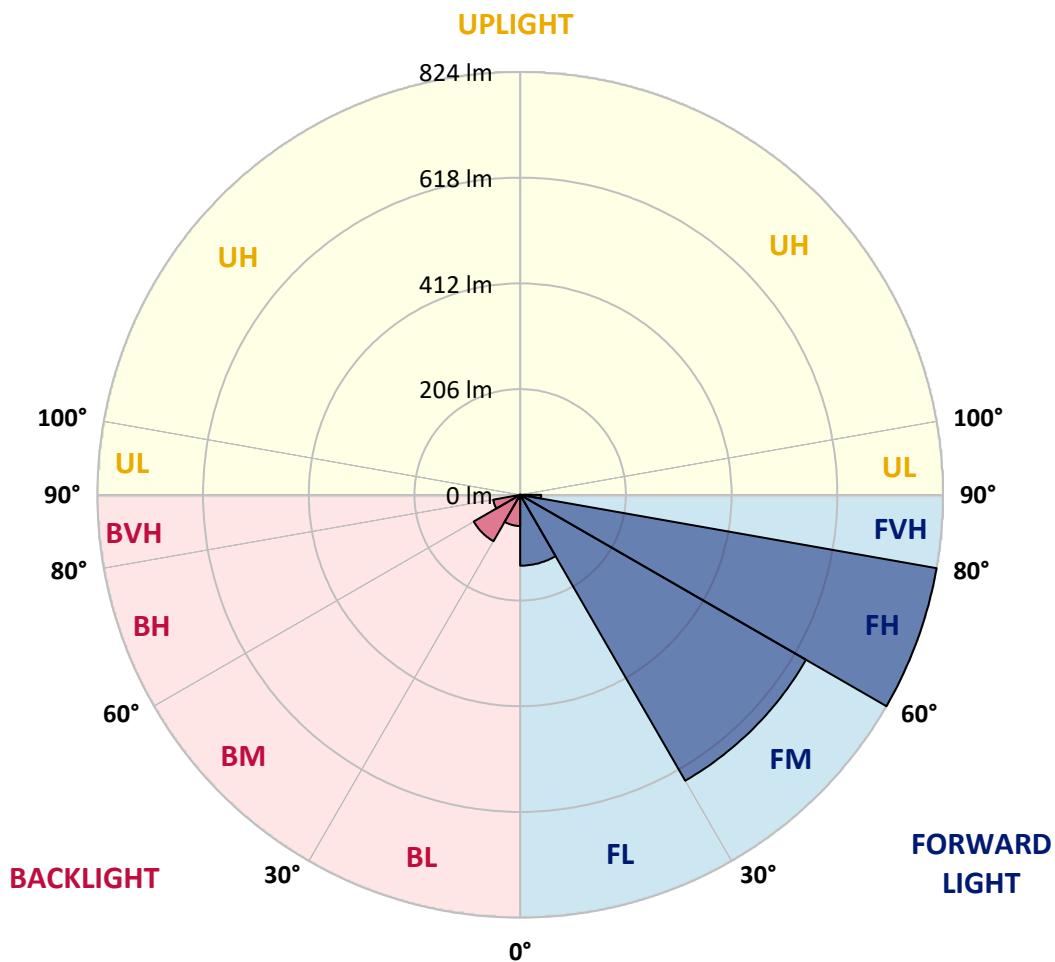
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	138.0	7.4			
FM (30°-60°)	643.0	34.4			
FH (60°-80°)	823.7	44.1			G1/1800
FVH (80°-90°)	40.8	2.2			G1/100
BL (0°-30°)	60.8	3.3	B0/110		
BM (30°-60°)	104.3	5.6	B0/220		
BH (60°-80°)	53.4	2.9	B0/110		G0/110
BVH (80°-90°)	2.9	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°	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7
2.5°	322.1	321.4	320.0	319.3	317.9	315.8	317.9	315.1	313.7	315.1	312.3
5°	327.7	327.0	325.6	322.8	321.4	317.9	320.0	316.5	315.8	317.2	313.7
7.5°	328.4	327.0	324.9	321.4	320.0	315.8	317.2	313.0	311.6	313.0	310.9
10°	326.3	325.6	323.5	317.9	316.5	315.1	314.4	311.6	310.9	310.2	309.5
12.5°	322.8	322.8	321.4	319.3	318.6	315.8	316.5	313.7	314.4	313.0	311.6
15°	321.4	320.7	322.1	323.5	323.5	319.3	322.1	320.0	318.6	319.3	317.2
17.5°	320.0	320.7	325.6	328.4	329.8	325.6	329.8	325.6	322.8	326.3	322.8
20°	319.3	321.4	329.8	336.0	336.7	329.8	336.7	329.8	329.8	333.9	327.7
22.5°	322.8	326.3	338.1	345.1	346.5	337.4	345.8	336.7	336.7	340.2	333.9
25°	333.9	337.4	350.7	358.3	357.0	347.2	354.9	345.8	345.1	349.3	340.9
27.5°	348.6	353.5	366.0	373.0	368.1	354.9	366.0	352.8	352.8	359.0	347.9
30°	369.5	373.0	384.1	384.8	378.6	362.5	375.1	360.4	358.3	369.5	355.6
32.5°	392.5	395.3	403.7	398.8	389.7	373.0	387.6	370.2	369.5	381.4	365.3
35°	416.9	419.7	422.5	414.1	405.8	387.6	403.7	386.2	385.5	398.8	383.4
37.5°	442.0	442.0	442.0	432.2	426.7	409.2	423.9	409.9	408.5	422.5	407.8
40°	462.2	463.6	461.5	452.5	449.7	437.1	449.7	437.1	439.2	451.8	439.9
42.5°	479.0	480.4	481.0	473.4	476.2	469.2	479.0	469.9	470.6	484.5	477.6
45°	495.7	495.0	500.6	498.5	506.8	507.5	513.1	509.6	511.0	521.5	519.4
47.5°	513.1	509.6	515.9	525.0	540.3	545.2	548.7	550.1	555.6	560.5	565.4
50°	529.9	526.4	530.5	550.8	575.2	585.6	586.3	593.3	599.6	606.5	616.3
52.5°	547.3	544.5	548.7	577.3	616.3	630.9	628.9	640.7	649.8	657.4	673.5
55°	565.4	562.6	566.8	609.3	660.2	680.4	678.3	695.1	712.5	715.3	733.4
57.5°	582.8	579.4	591.2	647.0	712.5	743.2	733.4	759.2	776.0	774.6	799.7
60°	601.7	598.9	617.7	693.0	778.0	817.8	803.1	837.3	849.2	844.3	868.0
62.5°	619.8	619.1	650.5	746.7	857.5	895.9	882.6	912.6	921.0	914.7	926.5
65°	636.5	640.7	686.0	800.4	934.2	978.1	960.0	990.0	999.7	994.9	1015.1
67.5°	664.4	669.3	729.9	868.7	1029.0	1074.3	1059.0	1090.4	1105.0	1103.6	1125.9
70°	705.5	714.6	794.8	965.6	1173.3	1231.2	1222.8	1261.2	1296.7	1294.0	1316.3
72.5°	777.3	792.0	901.4	1116.2	1410.4	1480.8	1471.0	1492.6	1486.4	1435.5	1394.3
74°	763.4	781.5	927.9	1195.0	1517.0	1561.7	1545.6	1546.3	1489.2	1411.8	1345.5
75°	712.5	731.3	889.6	1185.2	1509.4	1533.8	1510.8	1482.2	1413.2	1334.4	1252.8
77.5°	488.7	513.1	653.9	957.2	1215.2	1181.7	1176.1	1121.8	1030.4	941.9	837.3
80°	250.3	267.7	338.1	500.6	720.9	687.4	698.6	654.6	578.7	514.5	407.8
82.5°	60.0	64.1	99.7	193.8	312.3	285.8	290.0	256.6	212.6	173.6	134.6
85°	31.4	35.6	48.8	53.7	82.3	85.1	83.0	80.2	65.5	55.1	48.1
87.5°	0.0	0.0	0.0	1.4	0.7	0.0	0.7	0.0	0.0	0.7	1.4
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°	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7
2.5°	314.4	313.0	314.4	310.2	312.3	308.8	310.2	306.8	308.2	305.4	306.1
5°	315.8	312.3	314.4	310.9	311.6	308.8	308.2	306.8	306.1	304.0	302.6
7.5°	312.3	309.5	308.8	307.5	305.4	306.1	303.3	302.6	300.5	300.5	296.3
10°	308.8	309.5	305.4	306.8	303.3	304.0	299.1	300.5	297.0	299.8	293.5
12.5°	311.6	312.3	308.8	310.9	304.7	306.1	301.9	304.0	299.1	302.6	294.9
15°	317.9	317.2	315.8	315.8	309.5	312.3	307.5	308.8	304.0	308.2	299.8
17.5°	323.5	322.8	320.7	320.0	315.8	316.5	311.6	314.4	308.8	312.3	304.0
20°	329.8	326.3	325.6	324.9	320.0	320.0	316.5	317.9	312.3	316.5	306.8
22.5°	334.6	331.9	331.2	328.4	324.9	326.3	321.4	322.1	316.5	320.7	312.3
25°	342.3	338.8	338.8	334.6	332.6	331.9	329.1	331.2	325.6	328.4	320.7
27.5°	352.8	345.1	347.9	343.7	342.3	341.6	340.2	341.6	337.4	339.5	331.9
30°	362.5	352.8	357.0	351.4	354.2	351.4	353.5	351.4	351.4	351.4	347.9
32.5°	375.8	363.9	372.3	363.9	369.5	365.3	372.3	368.1	370.9	370.2	368.8
35°	394.6	380.7	392.5	381.4	391.1	385.5	395.3	393.2	398.8	396.0	398.8
37.5°	419.7	405.1	419.0	408.5	420.4	412.0	426.0	424.6	436.4	432.2	436.4
40°	451.1	440.6	451.1	443.4	456.0	452.5	467.1	467.8	481.0	479.0	483.8
42.5°	485.9	478.3	488.7	484.5	497.1	499.9	516.6	520.8	533.3	536.8	537.5
45°	523.6	522.2	530.5	534.7	547.3	555.6	570.3	580.7	594.7	602.4	601.0
47.5°	567.5	573.1	578.7	589.1	600.3	617.7	632.3	645.6	661.6	666.5	668.6
50°	617.0	626.8	631.6	646.3	657.4	679.0	699.3	716.0	733.4	731.3	732.7
52.5°	669.3	681.8	688.8	706.2	720.9	746.0	763.4	779.4	801.1	795.5	793.4
55°	727.2	746.0	751.6	771.1	783.6	809.4	824.8	852.6	861.7	856.1	844.3
57.5°	788.5	810.8	817.1	843.6	849.9	877.7	891.0	909.8	917.5	908.4	893.1
60°	858.2	878.4	883.3	907.0	915.4	941.2	950.9	967.7	973.3	950.9	929.3
62.5°	927.9	948.9	951.6	972.6	980.9	1003.2	1014.4	1024.1	1021.4	988.6	961.4
65°	1007.4	1027.6	1034.6	1055.5	1060.4	1077.1	1086.2	1075.0	1068.8	1019.3	988.6
67.5°	1133.6	1155.2	1158.0	1162.9	1162.2	1153.8	1149.6	1111.3	1083.4	992.1	948.2
70°	1299.5	1283.5	1252.1	1215.9	1189.4	1142.0	1114.1	1035.3	976.7	874.3	800.4
72.5°	1329.5	1277.2	1199.8	1137.8	1073.6	999.0	939.1	819.9	737.6	630.2	552.2
74°	1244.5	1159.4	1077.8	990.7	916.8	808.0	747.4	596.8	515.2	406.5	311.6
75°	1142.0	1042.3	950.2	839.4	770.4	640.0	582.8	420.4	338.8	241.2	162.4
77.5°	728.5	609.3	521.5	393.2	339.5	234.3	171.5	106.7	78.8	69.0	60.0
80°	327.0	232.9	184.8	127.6	106.7	81.6	69.0	55.8	50.9	44.6	42.5
82.5°	104.6	83.7	79.5	71.1	71.1	57.2	48.8	38.3	34.9	30.0	27.2
85°	45.3	42.5	43.9	40.4	41.1	31.4	25.1	18.8	18.8	13.2	11.9
87.5°	1.4	0.0	0.7	0.0	1.4	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°	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7
2.5°	303.3	304.7	304.0	301.2	300.5	298.4	293.5	294.2	291.4	293.5	290.0
5°	300.5	299.8	297.0	293.5	290.0	285.8	282.4	281.0	278.2	276.8	274.7
7.5°	296.3	293.5	288.6	283.1	278.2	272.6	269.8	264.9	263.5	258.7	258.0
10°	294.9	290.0	284.4	277.5	269.1	260.7	260.0	251.7	251.0	243.3	241.2
12.5°	297.7	291.4	284.4	276.1	266.3	254.5	254.5	241.9	241.2	230.8	227.3
15°	303.3	295.6	286.5	276.8	264.2	249.6	248.9	234.3	232.9	220.3	216.1
17.5°	308.2	297.7	289.3	276.1	261.4	244.7	241.2	226.6	223.8	209.2	203.6
20°	311.6	299.8	290.0	274.7	256.6	237.0	232.2	216.8	210.5	195.9	188.2
22.5°	315.8	304.7	291.4	274.0	253.8	230.8	220.3	206.4	197.3	182.0	171.5
25°	322.1	312.3	296.3	276.1	251.7	224.5	210.5	195.9	183.4	168.0	152.7
27.5°	331.9	322.1	303.3	278.9	251.0	218.2	202.9	184.8	169.4	152.7	135.3
30°	345.8	335.3	315.1	286.5	251.7	213.3	194.5	175.0	156.9	137.3	119.2
32.5°	363.9	355.6	330.5	294.9	254.5	209.2	186.8	164.5	142.2	123.4	107.4
35°	389.0	383.4	352.1	310.9	261.4	207.1	179.2	154.8	129.7	110.9	93.4
37.5°	426.0	418.3	383.4	333.9	272.6	205.7	173.6	142.9	119.2	99.0	84.4
40°	472.7	462.2	420.4	361.8	290.0	206.4	168.7	133.9	110.2	88.5	76.7
42.5°	528.5	513.1	465.7	396.0	307.5	207.8	165.9	125.5	103.2	80.2	71.1
45°	591.2	573.8	519.4	438.5	332.6	211.2	163.8	118.5	96.9	73.9	67.6
47.5°	652.6	635.1	574.5	481.0	358.3	217.5	165.2	114.3	92.7	70.4	63.4
50°	712.5	694.4	623.3	519.4	380.7	225.9	170.8	115.0	92.0	69.0	61.4
52.5°	765.5	743.2	665.1	549.4	396.7	231.5	175.7	117.1	92.7	68.3	60.7
55°	818.5	789.9	698.6	573.1	406.5	232.2	175.7	117.8	93.4	68.3	60.0
57.5°	858.2	825.5	724.4	587.0	409.9	228.7	171.5	114.3	89.2	67.6	58.6
60°	883.3	848.5	742.5	596.1	405.1	214.0	149.2	101.1	78.8	62.7	54.4
62.5°	904.2	868.7	748.1	580.7	363.9	170.1	116.4	82.3	65.5	55.8	50.2
65°	909.1	866.6	709.0	513.1	284.4	117.8	84.4	64.8	53.7	49.5	45.3
67.5°	835.2	784.3	596.1	401.6	193.8	80.9	62.7	53.0	46.0	43.9	42.5
70°	679.0	623.3	436.4	262.8	108.1	56.5	48.1	43.9	39.7	39.7	37.6
72.5°	437.8	380.0	223.8	112.2	55.1	43.2	39.0	37.6	34.2	34.9	32.8
74°	223.8	174.3	91.3	59.3	45.3	38.3	34.9	34.2	30.7	31.4	29.3
75°	113.6	89.9	64.1	49.5	41.8	36.3	32.1	32.1	27.9	28.6	26.5
77.5°	53.0	50.9	43.9	39.0	35.6	30.7	26.5	25.8	21.6	23.0	20.2
80°	37.0	37.0	34.2	32.8	29.3	25.1	20.2	20.2	16.0	16.7	14.6
82.5°	20.9	19.5	19.5	22.3	23.0	18.8	14.6	13.9	11.9	11.9	9.8
85°	9.1	10.5	12.5	15.3	16.7	14.6	10.5	9.8	6.3	6.3	3.5
87.5°	0.0	0.7	0.7	1.4	2.8	2.8	0.0	1.4	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°	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7	304.7
2.5°	291.4	287.9	290.0	286.5	287.9	284.4	285.8	283.7	281.7	278.9	278.2
5°	272.6	269.8	269.1	265.6	266.3	263.5	260.7	257.3	253.1	247.5	245.4
7.5°	251.7	251.0	246.1	244.0	241.2	238.4	233.6	228.0	219.6	211.9	207.1
10°	233.6	231.5	224.5	221.0	216.8	213.3	206.4	198.7	186.8	175.0	168.7
12.5°	218.2	215.4	206.4	202.2	195.9	191.7	183.4	173.6	156.9	140.1	132.5
15°	205.7	201.5	191.0	184.8	176.4	172.2	163.1	149.2	129.0	111.5	101.1
17.5°	191.0	185.4	174.3	166.6	158.3	150.6	141.5	126.9	103.9	87.8	77.4
20°	175.0	168.0	156.2	145.7	136.6	129.7	120.6	106.0	83.0	70.4	64.8
22.5°	158.3	147.1	136.6	127.6	117.1	110.2	101.1	87.8	70.4	63.4	61.4
25°	140.8	128.3	117.8	108.8	99.0	92.7	85.1	74.6	64.1	62.0	62.0
27.5°	123.4	110.9	101.1	92.0	83.7	79.5	72.5	65.5	60.7	61.4	62.0
30°	107.4	94.8	85.8	78.8	71.1	68.3	62.7	58.6	57.9	60.0	60.7
32.5°	93.4	82.3	73.9	68.3	62.0	60.7	55.8	53.7	55.8	58.6	57.9
35°	81.6	72.5	64.1	60.7	55.1	54.4	50.9	49.5	52.3	55.8	55.8
37.5°	72.5	64.1	57.9	55.1	50.9	50.2	47.4	46.0	48.1	53.0	54.4
40°	64.8	60.0	53.7	50.9	48.1	46.7	45.3	43.9	44.6	50.9	51.6
42.5°	60.0	56.5	50.9	49.5	46.0	45.3	43.2	41.8	42.5	47.4	49.5
45°	56.5	53.7	48.8	48.1	44.6	43.9	41.8	40.4	41.1	45.3	47.4
47.5°	53.7	50.9	46.7	45.3	43.2	42.5	41.1	39.7	39.7	43.9	46.0
50°	52.3	49.5	45.3	43.9	41.8	41.1	39.7	38.3	39.0	42.5	43.9
52.5°	51.6	48.1	44.6	42.5	41.1	39.7	38.3	37.0	37.6	41.1	42.5
55°	51.6	47.4	44.6	42.5	40.4	38.3	37.6	35.6	37.0	39.7	41.8
57.5°	51.6	47.4	44.6	42.5	41.1	39.0	37.6	36.3	37.0	39.7	41.8
60°	50.2	46.7	45.3	43.2	42.5	40.4	39.7	38.3	38.3	41.8	45.3
62.5°	48.1	46.0	45.3	43.9	43.9	42.5	42.5	41.1	41.1	45.3	48.8
65°	45.3	43.9	44.6	43.9	43.9	43.9	43.2	43.2	43.2	46.7	50.9
67.5°	42.5	41.8	42.5	42.5	43.2	42.5	43.2	42.5	42.5	46.0	50.2
70°	38.3	38.3	39.0	38.3	39.0	39.0	39.7	39.7	39.7	41.8	46.0
72.5°	33.5	32.8	33.5	32.8	34.2	32.8	34.2	34.9	34.2	34.9	37.0
74°	30.0	29.3	30.0	29.3	30.7	29.3	30.0	30.0	29.3	23.7	20.2
75°	27.2	26.5	27.2	26.5	27.9	26.5	27.9	27.2	25.8	17.4	16.7
77.5°	21.6	19.5	21.6	19.5	20.9	18.8	20.2	17.4	13.2	12.5	12.5
80°	16.0	13.9	15.3	13.2	12.5	9.8	10.5	9.8	9.1	9.8	9.8
82.5°	9.8	7.0	8.4	6.3	7.7	5.6	7.0	6.3	5.6	5.6	5.6
85°	4.9	3.5	4.9	2.8	4.2	2.8	3.5	3.5	2.1	2.1	2.1
87.5°	0.7	0.0	1.4	0.0	1.4	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°	304.7	304.7
2.5°	276.1	276.8
5°	241.9	244.0
7.5°	204.3	205.7
10°	164.5	165.9
12.5°	126.9	128.3
15°	95.5	94.1
17.5°	73.2	71.8
20°	62.0	62.0
22.5°	60.7	60.0
25°	61.4	60.7
27.5°	61.4	60.7
30°	60.0	59.3
32.5°	57.9	57.2
35°	55.8	55.8
37.5°	54.4	55.1
40°	52.3	53.0
42.5°	50.2	50.9
45°	48.1	48.8
47.5°	46.0	46.0
50°	43.2	43.2
52.5°	42.5	42.5
55°	42.5	42.5
57.5°	43.9	43.9
60°	48.1	48.8
62.5°	56.5	57.2
65°	64.8	66.2
67.5°	65.5	67.6
70°	63.4	65.5
72.5°	43.9	43.9
74°	19.5	18.8
75°	16.7	16.0
77.5°	12.5	12.5
80°	9.1	8.4
82.5°	4.9	4.9
85°	1.4	1.4
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)