

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: P271513

Luminaire Tested: **ISS-AF-600-LED-E1-SL3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29762)
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-SL3-7027
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3159.4 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

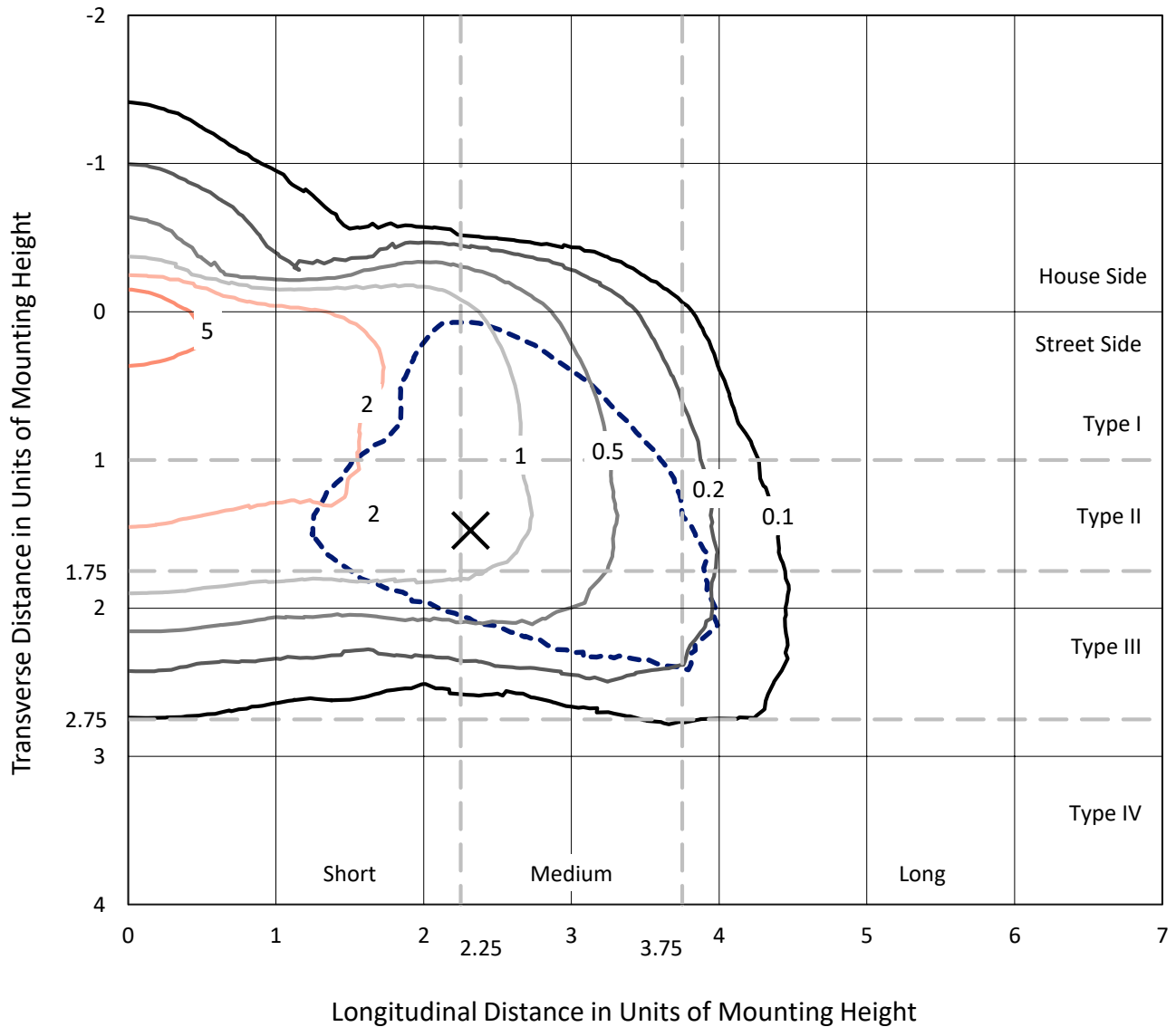
Input Watts (W): 33.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

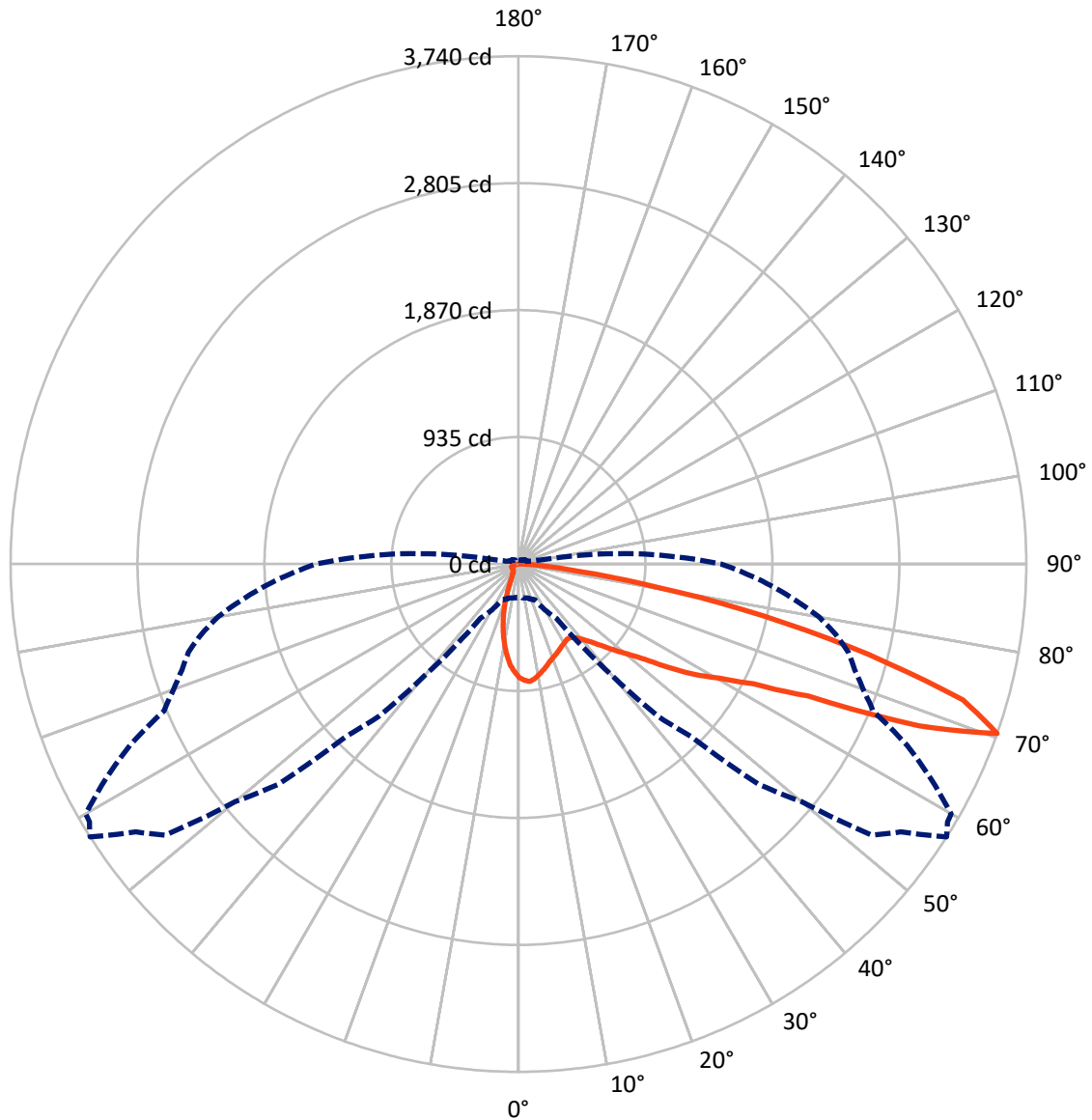
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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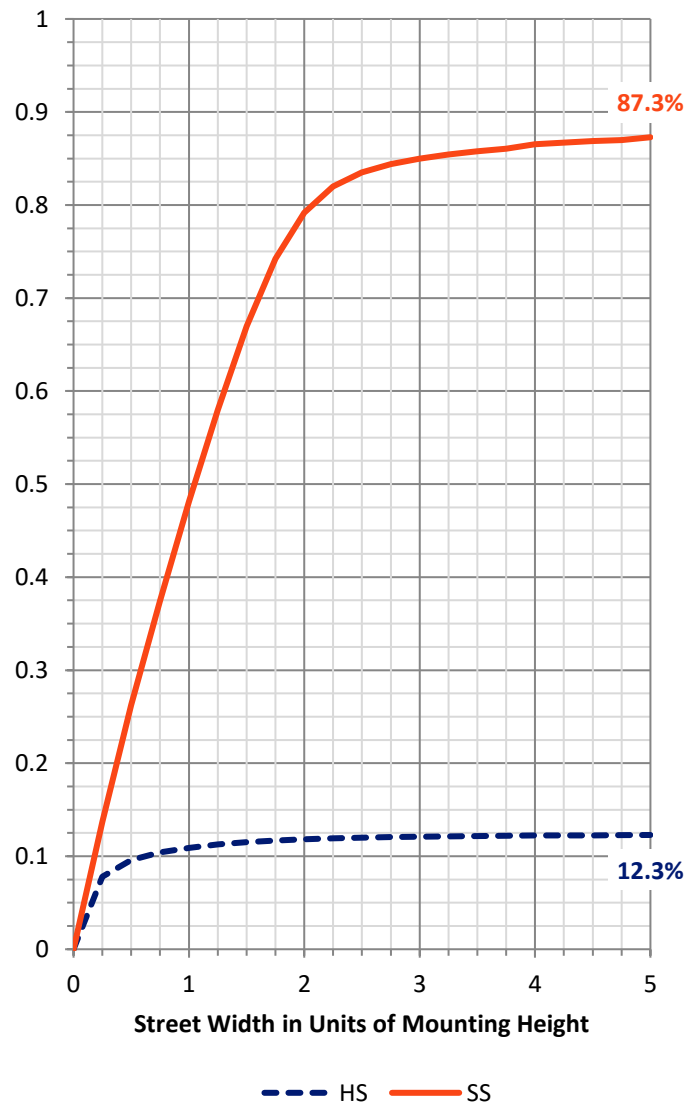
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	391.0	0.0	391.0
	% Fixture	12.4	0.0	12.4
Street Side	Lumens	2768.4	0.0	2768.4
	% Fixture	87.6	0.0	87.6
Total	Lumens	3159.4	0.0	3159.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	2.3
10°-20°	156.8	5.0
20°-30°	197.0	6.2
30°-40°	257.5	8.1
40°-50°	386.3	12.2
50°-60°	610.6	19.3
60°-70°	880.2	27.9
70°-80°	544.8	17.2
80°-90°	54.0	1.7
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°	3159.4	100.0
0°-180°	3159.4	100.0



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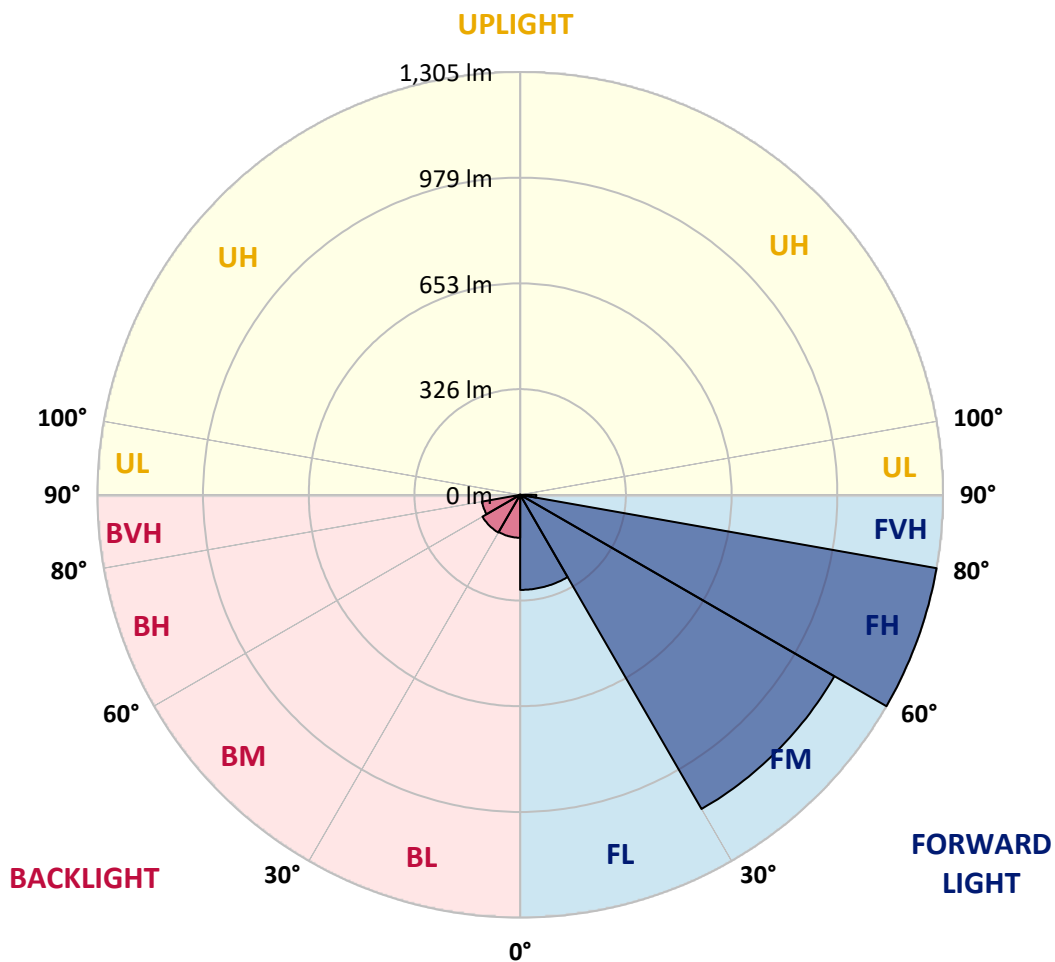
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	293.4	9.3			
FM	(30°-60°)	1120.0	35.4			
FH	(60°-80°)	1305.3	41.3			G1/1800
FVH	(80°-90°)	49.7	1.6			G1/100
BL	(0°-30°)	132.5	4.2	B1/500		
BM	(30°-60°)	134.4	4.3	B0/220		
BH	(60°-80°)	119.7	3.8	B1/500		G1/500
BVH	(80°-90°)	4.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2
2.5°	877.7	876.6	874.3	869.9	867.7	869.9	867.7	864.3	859.8	863.1	860.8
5°	875.5	877.7	873.2	869.9	875.5	877.7	873.2	873.2	868.8	873.2	871.0
7.5°	831.7	832.9	834.0	832.9	847.4	847.4	845.2	847.4	848.6	850.9	852.0
10°	776.9	777.9	780.2	783.5	801.5	803.7	804.8	807.0	810.5	812.7	819.4
12.5°	721.9	724.1	728.6	739.8	758.9	761.1	764.5	767.8	773.5	776.9	789.1
15°	676.0	677.1	681.5	693.9	721.9	727.4	729.7	734.3	745.4	745.4	758.9
17.5°	633.3	635.6	639.0	653.6	681.5	690.4	697.3	699.5	714.1	717.5	733.1
20°	600.9	602.0	603.1	616.6	642.3	655.8	661.3	670.3	681.5	690.4	703.9
22.5°	582.9	584.0	581.8	587.4	609.8	626.6	633.3	642.3	646.8	662.5	670.3
25°	584.0	585.2	579.6	576.2	587.4	605.3	610.9	619.9	617.7	640.0	640.0
27.5°	595.3	597.5	591.8	581.8	582.9	597.5	600.9	604.2	597.5	619.9	615.4
30°	617.7	619.9	613.1	605.3	593.0	602.0	602.0	602.0	589.6	608.7	600.9
32.5°	641.2	643.5	641.2	635.6	619.9	622.2	617.7	615.4	598.6	614.4	602.0
35°	676.0	677.1	678.2	678.2	655.8	660.3	647.9	641.2	625.5	637.9	621.0
37.5°	717.5	717.5	725.2	728.6	703.9	703.9	690.4	681.5	667.0	671.4	654.7
40°	754.4	757.8	775.7	785.7	763.4	754.4	743.2	735.4	724.1	724.1	707.3
42.5°	797.0	803.7	825.0	844.0	831.7	818.3	807.0	799.2	793.7	792.6	774.6
45°	849.7	857.5	881.1	899.0	902.3	892.3	883.3	875.5	871.0	868.8	853.0
47.5°	909.2	916.9	938.2	959.5	975.2	973.0	962.9	955.1	958.4	956.2	946.0
50°	975.2	979.7	993.2	1017.8	1053.7	1061.5	1059.3	1053.7	1060.4	1060.4	1051.5
52.5°	1027.9	1031.3	1041.3	1070.5	1129.9	1147.9	1162.5	1173.6	1184.9	1191.6	1186.0
55°	1076.1	1076.1	1077.2	1114.3	1202.8	1231.9	1264.5	1288.0	1302.5	1329.4	1340.7
57.5°	1154.6	1149.0	1147.9	1187.1	1290.2	1320.5	1367.6	1401.2	1421.4	1476.4	1475.2
60°	1132.1	1134.4	1174.7	1290.2	1469.5	1496.5	1539.1	1575.0	1613.1	1653.4	1656.7
62.5°	976.4	981.9	1042.6	1215.0	1583.9	1724.0	1855.2	1954.9	2010.9	2046.9	1997.5
65°	683.8	697.3	779.1	989.8	1458.4	1674.7	1882.1	2113.0	2290.0	2564.8	2644.3
67.5°	340.7	350.9	364.4	519.0	1089.6	1393.3	1679.2	1994.1	2229.6	2633.1	2858.5
70°	244.4	248.8	258.9	291.4	487.6	729.7	1066.0	1516.7	1793.6	2402.2	2720.6
72.5°	189.5	193.9	207.4	253.3	322.9	356.4	423.7	692.8	1030.2	1659.0	2089.5
75°	146.9	153.6	172.7	228.7	310.5	329.6	332.9	357.5	408.0	736.5	1171.4
77.5°	103.1	104.2	123.2	197.3	301.5	338.5	332.9	332.9	339.6	375.5	501.1
80°	68.5	69.5	81.8	136.7	264.6	308.3	340.7	325.1	326.3	331.8	340.7
82.5°	35.8	38.1	48.1	82.9	154.7	208.5	283.7	295.9	291.4	297.1	294.8
85°	10.2	10.2	16.8	31.4	76.3	80.7	125.5	171.5	174.9	198.4	211.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	4.5	10.2	11.2
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):

	52.5°	55°	57.5°	59°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2
2.5°	863.1	858.7	857.5	855.3	856.4	853.0	852.0	847.4	847.4	845.2	843.0
5°	868.8	864.3	868.8	860.8	862.0	858.7	853.0	853.0	848.6	845.2	838.5
7.5°	853.0	853.0	854.2	849.7	850.9	849.7	843.0	841.8	835.2	835.2	827.2
10°	823.9	823.9	828.3	825.0	826.1	825.0	821.7	820.5	818.3	818.3	806.0
12.5°	790.3	797.0	803.7	800.4	800.4	802.6	802.6	803.7	802.6	801.5	791.4
15°	762.2	772.4	779.1	777.9	779.1	784.7	786.9	788.0	791.4	790.3	781.3
17.5°	736.5	747.7	753.3	757.8	761.1	765.6	772.4	775.7	780.2	779.1	770.0
20°	713.0	723.0	733.1	738.8	739.8	748.7	756.6	766.7	768.9	771.3	760.1
22.5°	688.3	697.3	717.5	714.1	721.9	738.8	743.2	757.8	757.8	765.6	749.9
25°	667.0	668.1	699.5	693.9	700.6	731.0	734.3	760.1	753.3	764.5	746.5
27.5°	645.7	644.5	682.6	676.0	683.8	725.2	727.4	763.4	756.6	770.0	746.5
30°	630.0	626.6	670.3	656.9	668.1	719.6	720.8	766.7	761.1	779.1	754.4
32.5°	626.6	621.0	659.2	649.0	660.3	714.1	720.8	779.1	772.4	794.8	763.4
35°	641.2	632.2	664.7	655.8	664.7	716.3	726.4	798.1	790.3	816.1	784.7
37.5°	668.1	661.3	688.3	679.3	686.0	732.0	740.9	822.8	821.7	853.0	817.2
40°	715.2	708.4	729.7	717.5	723.0	765.6	770.0	857.5	860.8	899.0	863.1
42.5°	779.1	767.8	784.7	770.0	777.9	816.1	811.6	900.1	910.3	962.9	921.4
45°	860.8	846.3	856.4	840.7	846.3	878.8	866.5	957.3	967.4	1032.4	995.4
47.5°	950.6	932.6	944.9	924.7	928.2	962.9	940.4	1025.7	1041.3	1123.2	1087.3
50°	1058.2	1034.7	1039.1	1020.0	1022.3	1057.0	1032.4	1109.8	1128.8	1219.6	1188.2
52.5°	1196.0	1162.5	1162.5	1136.6	1137.7	1172.5	1142.3	1209.5	1230.8	1322.8	1301.5
55°	1377.7	1350.7	1345.1	1318.3	1309.3	1315.9	1273.3	1320.5	1344.0	1430.3	1413.6
57.5°	1522.3	1518.9	1535.7	1497.7	1488.6	1490.8	1437.1	1440.4	1467.3	1534.6	1540.2
60°	1698.2	1703.8	1706.2	1674.7	1671.4	1639.9	1585.0	1576.1	1609.8	1655.7	1673.6
62.5°	1978.4	1972.9	1944.9	1921.4	1900.1	1815.9	1785.7	1736.3	1783.5	1809.3	1846.3
65°	2580.4	2522.1	2342.8	2358.5	2302.4	2119.7	2093.9	1994.1	2068.2	2069.2	2138.8
67.5°	3176.8	3291.1	3181.3	3183.5	3056.8	2726.2	2646.6	2448.2	2489.7	2441.4	2477.3
70°	3278.8	3439.1	3739.6	3685.7	3679.0	3424.5	3156.6	2826.0	2701.6	2598.3	2515.4
72.5°	2821.5	2981.7	3422.4	3300.1	3346.1	3423.4	3144.2	2896.6	2618.6	2487.4	2308.0
75°	1985.3	2216.2	2663.5	2599.5	2633.1	2760.9	2521.0	2491.9	2170.1	2082.7	1807.0
77.5°	1063.9	1349.6	1850.7	1772.3	1786.8	1859.7	1609.8	1558.1	1247.7	1161.3	848.6
80°	478.7	663.6	1039.1	951.8	926.0	884.4	651.3	513.4	313.9	208.5	144.5
82.5°	317.2	329.6	460.7	399.0	373.2	308.3	199.5	117.7	93.1	78.4	75.1
85°	213.0	195.0	193.9	171.5	159.2	125.5	93.1	58.3	48.1	40.3	37.0
87.5°	12.4	7.8	11.2	12.4	8.9	7.8	5.6	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):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2
2.5°	837.4	837.4	836.2	828.3	823.9	821.7	813.9	812.7	809.4	808.3	808.3
5°	836.2	831.7	826.1	814.9	803.7	793.7	790.3	782.4	776.9	770.0	770.0
7.5°	820.5	816.1	803.7	786.9	772.4	757.8	749.9	738.8	729.7	720.8	718.6
10°	802.6	795.9	779.1	756.6	737.6	711.7	701.8	687.1	677.1	663.6	650.1
12.5°	783.5	779.1	758.9	733.1	703.9	671.4	655.8	635.6	622.2	606.4	586.2
15°	775.7	766.7	740.9	708.4	672.7	633.3	610.9	589.6	569.4	551.5	524.6
17.5°	765.6	754.4	725.2	687.1	642.3	595.3	566.1	542.6	515.6	496.7	466.3
20°	754.4	737.6	706.2	660.3	609.8	553.7	516.7	493.2	457.3	438.4	402.4
22.5°	745.4	724.1	686.0	634.5	573.9	511.1	467.5	440.5	400.1	377.7	332.9
25°	743.2	717.5	671.4	613.1	543.7	469.6	417.0	390.1	339.6	313.9	261.1
27.5°	744.3	714.1	662.5	595.3	516.7	432.7	369.9	338.5	274.6	247.8	187.2
30°	745.4	715.2	653.6	579.6	492.1	394.5	320.5	283.7	207.4	183.8	130.1
32.5°	756.6	719.6	651.3	567.2	469.6	356.4	264.6	231.0	146.9	133.4	96.4
35°	770.0	734.3	655.8	564.9	452.8	318.4	207.4	172.7	105.4	102.0	78.4
37.5°	798.1	756.6	673.7	570.5	442.8	279.1	154.7	132.3	82.9	85.2	68.5
40°	840.7	794.8	702.8	587.4	441.7	239.8	114.4	103.1	71.8	74.0	62.8
42.5°	897.9	847.4	747.7	623.2	447.3	202.8	92.0	88.6	66.1	68.5	60.5
45°	973.0	921.4	810.5	669.1	463.0	172.7	80.7	80.7	63.9	66.1	59.4
47.5°	1068.3	1011.1	887.9	731.0	487.6	155.9	76.3	77.3	62.8	66.1	59.4
50°	1175.9	1113.1	986.5	810.5	525.7	151.4	77.3	77.3	63.9	66.1	59.4
52.5°	1288.0	1229.7	1093.0	901.3	578.4	161.4	79.6	78.4	63.9	66.1	58.3
55°	1402.3	1349.6	1210.6	1007.8	651.3	197.3	85.2	81.8	63.9	66.1	59.4
57.5°	1516.7	1479.7	1333.9	1122.2	742.1	262.3	107.5	95.3	70.7	71.8	60.5
60°	1645.5	1618.7	1473.0	1272.3	871.0	363.2	158.0	119.9	84.1	79.6	64.9
62.5°	1812.6	1805.9	1690.4	1488.6	1078.3	508.9	224.1	145.7	90.8	82.9	69.5
65°	2107.4	2125.3	2015.4	1741.9	1216.2	512.2	218.6	127.8	85.2	78.4	68.5
67.5°	2403.3	2350.7	2068.2	1703.8	1097.4	340.7	139.0	99.7	75.1	72.9	63.9
70°	2392.2	2248.6	1875.4	1489.7	866.5	184.9	100.9	82.9	67.2	67.2	60.5
72.5°	2145.5	1932.5	1533.5	1179.3	578.4	117.7	85.2	72.9	61.6	60.5	56.1
75°	1615.3	1364.2	985.4	679.3	257.8	76.3	64.9	59.4	53.8	53.8	49.4
77.5°	760.1	428.2	237.6	158.0	86.2	51.6	44.8	44.8	43.7	44.8	40.3
80°	103.1	93.1	79.6	69.5	52.7	35.8	32.5	33.7	32.5	33.7	30.3
82.5°	62.8	56.1	45.9	43.7	32.5	24.6	23.5	24.6	22.4	23.5	18.0
85°	30.3	26.9	21.3	20.2	16.8	14.6	12.4	14.6	11.2	12.4	7.8
87.5°	0.0	2.2	1.1	2.2	2.2	2.2	0.0	2.2	0.0	2.2	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°	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2
2.5°	802.6	799.2	798.1	793.7	792.6	788.0	786.9	782.4	774.6	771.3	765.6
5°	760.1	754.4	749.9	747.7	738.8	734.3	727.4	718.6	701.8	693.9	680.5
7.5°	700.6	699.5	686.0	681.5	670.3	662.5	652.3	637.9	613.1	598.6	577.3
10°	635.6	631.1	615.4	606.4	591.8	580.7	567.2	545.9	507.8	477.4	445.0
12.5°	575.1	561.6	543.7	530.2	512.2	496.7	481.0	448.3	387.9	338.5	293.7
15°	512.2	492.1	473.0	450.6	431.5	406.9	389.0	346.4	266.8	206.3	178.2
17.5°	448.3	420.4	399.0	368.8	347.6	313.9	294.8	243.2	174.9	148.0	139.0
20°	381.2	344.1	320.5	283.7	262.3	219.7	205.2	168.2	134.6	124.4	122.2
22.5°	309.4	264.6	238.8	198.4	183.8	158.0	146.9	128.9	113.3	108.8	111.0
25°	234.3	186.1	169.3	140.1	134.6	121.0	116.6	107.5	99.7	99.7	103.1
27.5°	167.1	130.1	125.5	107.5	106.4	99.7	96.4	92.0	89.7	92.0	96.4
30°	122.2	98.6	98.6	88.6	88.6	84.1	82.9	80.7	80.7	85.2	89.7
32.5°	96.4	80.7	82.9	75.1	76.3	72.9	74.0	72.9	74.0	77.3	80.7
35°	80.7	69.5	72.9	66.1	68.5	64.9	67.2	67.2	69.5	70.7	71.8
37.5°	71.8	63.9	66.1	61.6	63.9	60.5	63.9	63.9	64.9	64.9	64.9
40°	66.1	59.4	62.8	58.3	61.6	58.3	61.6	61.6	60.5	59.4	60.5
42.5°	62.8	58.3	61.6	57.1	60.5	57.1	59.4	58.3	56.1	56.1	56.1
45°	61.6	57.1	59.4	56.1	58.3	55.0	57.1	56.1	52.7	51.6	53.8
47.5°	61.6	56.1	59.4	55.0	57.1	53.8	56.1	52.7	49.4	49.4	52.7
50°	61.6	56.1	59.4	55.0	57.1	52.7	53.8	50.5	45.9	47.1	51.6
52.5°	62.8	58.3	60.5	56.1	57.1	50.5	52.7	48.1	44.8	45.9	49.4
55°	63.9	58.3	60.5	53.8	55.0	50.5	50.5	48.1	44.8	44.8	48.1
57.5°	63.9	57.1	58.3	52.7	53.8	48.1	49.4	47.1	43.7	42.6	44.8
60°	66.1	59.4	59.4	51.6	52.7	47.1	48.1	45.9	42.6	40.3	41.5
62.5°	68.5	60.5	61.6	53.8	53.8	48.1	49.4	44.8	40.3	38.1	39.3
65°	68.5	60.5	61.6	55.0	55.0	49.4	49.4	44.8	38.1	35.8	35.8
67.5°	64.9	59.4	60.5	55.0	55.0	49.4	49.4	43.7	37.0	33.7	32.5
70°	62.8	57.1	58.3	51.6	52.7	47.1	47.1	41.5	34.8	31.4	29.1
72.5°	57.1	52.7	52.7	48.1	47.1	41.5	41.5	38.1	32.5	28.0	25.8
75°	49.4	44.8	43.7	39.3	39.3	35.8	34.8	31.4	26.9	23.5	22.4
77.5°	40.3	34.8	34.8	29.1	29.1	25.8	26.9	23.5	20.2	19.0	18.0
80°	29.1	23.5	23.5	19.0	19.0	15.7	16.8	15.7	14.6	14.6	13.5
82.5°	18.0	12.4	13.5	10.2	12.4	8.9	10.2	8.9	8.9	7.8	7.8
85°	8.9	4.5	6.7	3.3	5.6	1.1	3.3	2.2	2.2	2.2	2.2
87.5°	1.1	0.0	1.1	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	175°	180°
0°	836.2	836.2
2.5°	760.1	763.4
5°	676.0	677.1
7.5°	573.9	571.7
10°	438.4	432.7
12.5°	282.4	274.6
15°	170.4	168.2
17.5°	136.7	136.7
20°	122.2	122.2
22.5°	113.3	113.3
25°	106.4	107.5
27.5°	100.9	100.9
30°	94.1	94.1
32.5°	82.9	82.9
35°	74.0	72.9
37.5°	66.1	67.2
40°	60.5	61.6
42.5°	58.3	58.3
45°	56.1	56.1
47.5°	56.1	56.1
50°	55.0	56.1
52.5°	53.8	53.8
55°	50.5	51.6
57.5°	47.1	48.1
60°	43.7	43.7
62.5°	39.3	39.3
65°	35.8	35.8
67.5°	31.4	31.4
70°	28.0	28.0
72.5°	24.6	24.6
75°	21.3	21.3
77.5°	18.0	16.8
80°	13.5	13.5
82.5°	7.8	7.8
85°	2.2	2.2
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)