

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: P228234

Luminaire Tested: **ISS-AF-350-LED-E1-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228234
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-350-LED-E1-SL3-7030
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1965 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B0 - U0 - G1

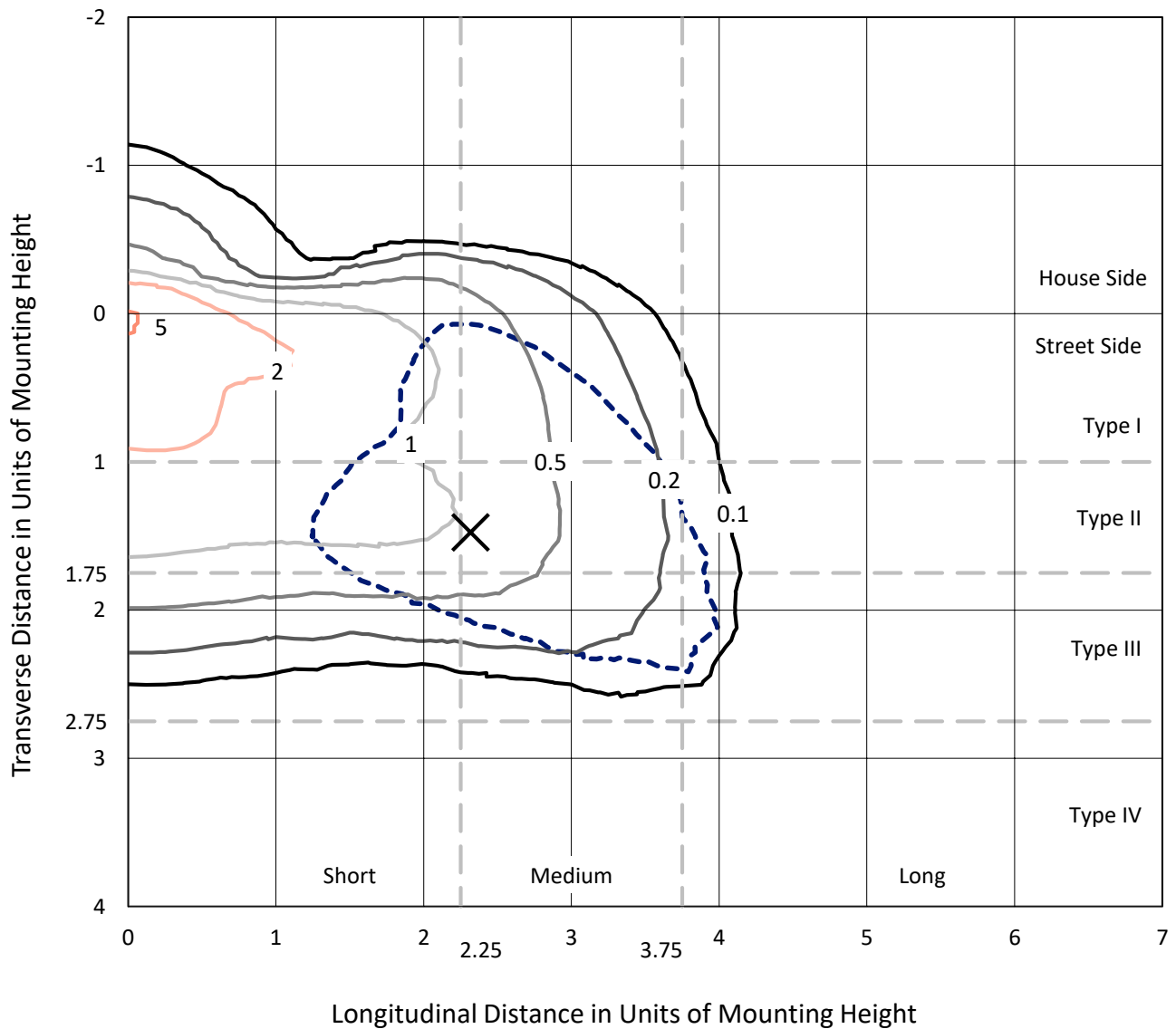
Input Watts (W): 20.09
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

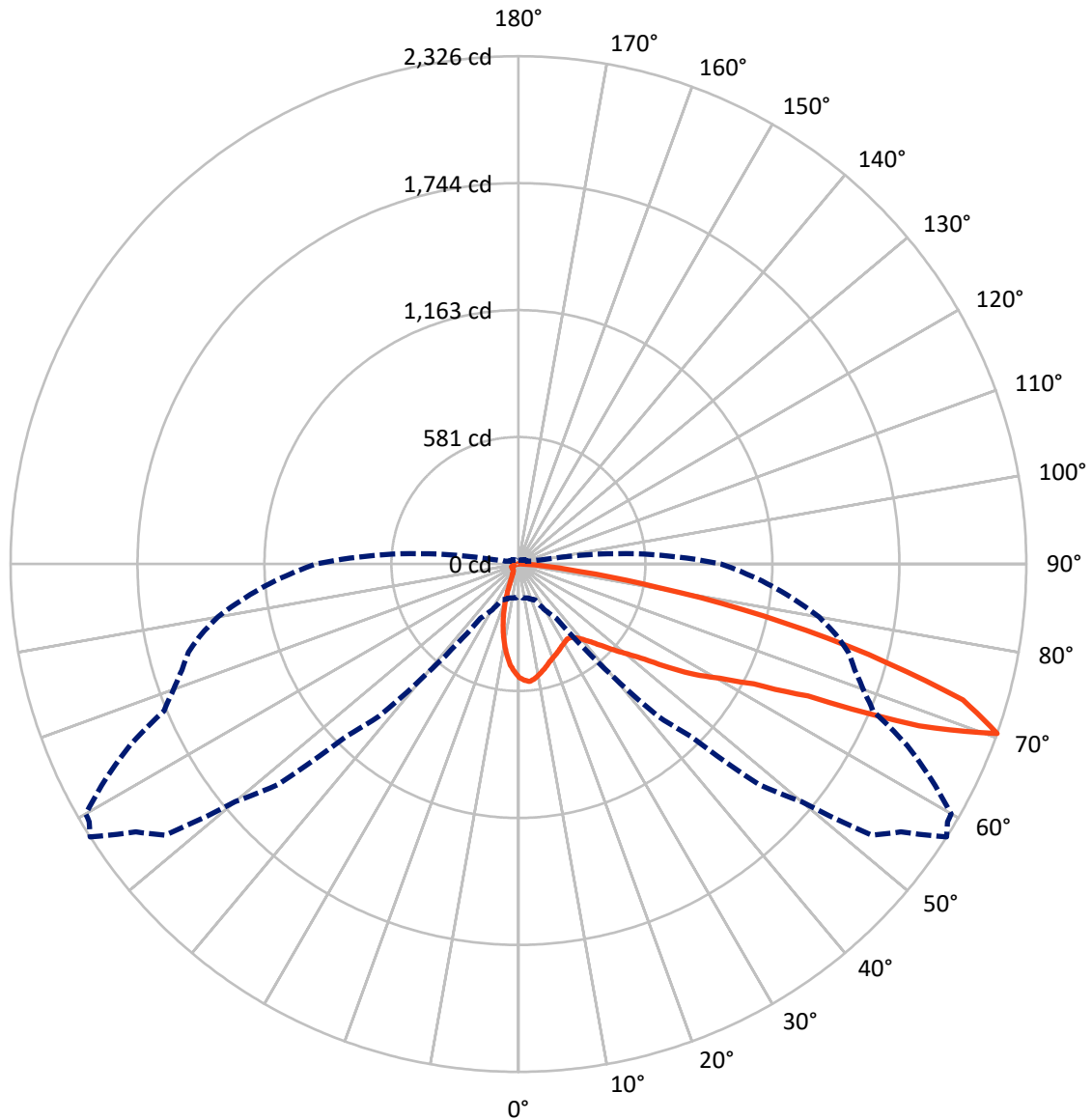
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 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	243.2	0.0	243.2
	% Fixture	12.4	0.0	12.4
Street Side	Lumens	1721.8	0.0	1721.8
	% Fixture	87.6	0.0	87.6
Total	Lumens	1965.0	0.0	1965.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	2.3
10°-20°	97.5	5.0
20°-30°	122.5	6.2
30°-40°	160.1	8.1
40°-50°	240.3	12.2
50°-60°	379.8	19.3
60°-70°	547.4	27.9
70°-80°	338.8	17.2
80°-90°	33.6	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°	1965.0	100.0
0°-180°	1965.0	100.0



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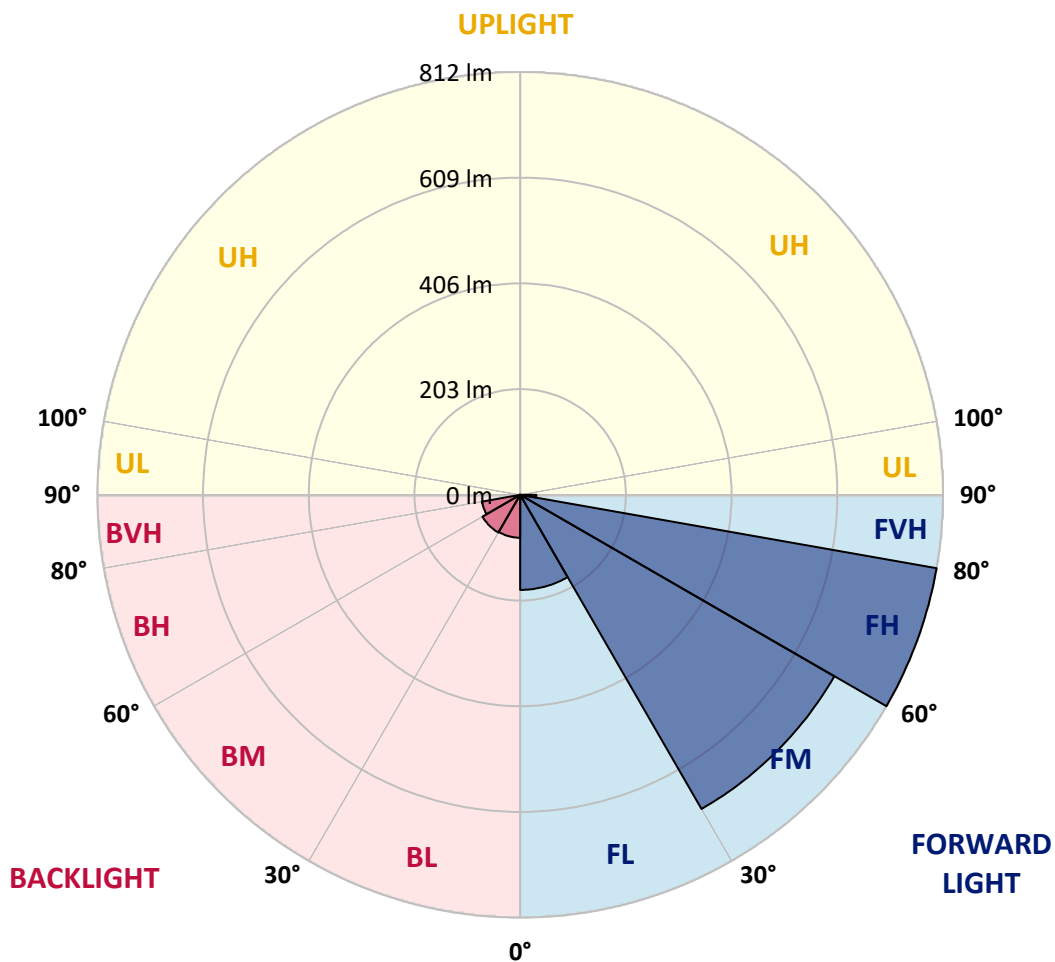
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	182.5	9.3			
FM	(30°-60°)	696.6	35.4			
FH	(60°-80°)	811.8	41.3			G1/1800
FVH	(80°-90°)	30.9	1.6			G1/100
BL	(0°-30°)	82.4	4.2	B0/110		
BM	(30°-60°)	83.6	4.3	B0/220		
BH	(60°-80°)	74.4	3.8	B0/110		G0/110
BVH	(80°-90°)	2.7	0.1			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1
2.5°	545.9	545.2	543.8	541.0	539.6	541.0	539.6	537.5	534.7	536.8	535.4
5°	544.5	545.9	543.1	541.0	544.5	545.9	543.1	543.1	540.3	543.1	541.7
7.5°	517.3	518.0	518.7	518.0	527.1	527.1	525.7	527.1	527.8	529.2	529.9
10°	483.2	483.8	485.2	487.3	498.5	499.9	500.6	502.0	504.1	505.5	509.6
12.5°	449.0	450.4	453.2	460.1	472.0	473.4	475.5	477.6	481.1	483.2	490.8
15°	420.4	421.1	423.9	431.6	449.0	452.5	453.9	456.7	463.6	463.6	472.0
17.5°	393.9	395.3	397.4	406.5	423.9	429.5	433.7	435.0	444.1	446.2	456.0
20°	373.7	374.4	375.1	383.5	399.5	407.9	411.3	416.9	423.9	429.5	437.8
22.5°	362.5	363.2	361.8	365.3	379.3	389.7	393.9	399.5	402.3	412.0	416.9
25°	363.2	363.9	360.4	358.4	365.3	376.5	380.0	385.5	384.2	398.1	398.1
27.5°	370.2	371.6	368.1	361.8	362.5	371.6	373.7	375.8	371.6	385.5	382.8
30°	384.2	385.5	381.4	376.5	368.8	374.4	374.4	374.4	366.7	378.6	373.7
32.5°	398.8	400.2	398.8	395.3	385.5	386.9	384.2	382.8	372.3	382.1	374.4
35°	420.4	421.1	421.8	421.8	407.9	410.6	403.0	398.8	389.0	396.7	386.2
37.5°	446.2	446.2	451.1	453.2	437.8	437.8	429.5	423.9	414.8	417.6	407.2
40°	469.2	471.3	482.5	488.7	474.8	469.2	462.2	457.4	450.4	450.4	439.9
42.5°	495.7	499.9	513.1	525.0	517.3	508.9	502.0	497.1	493.6	492.9	481.8
45°	528.5	533.3	548.0	559.1	561.2	555.0	549.4	544.5	541.7	540.3	530.6
47.5°	565.4	570.3	583.5	596.8	606.6	605.2	598.9	594.0	596.1	594.7	588.4
50°	606.6	609.3	617.7	633.0	655.4	660.2	658.8	655.4	659.5	659.5	654.0
52.5°	639.3	641.4	647.7	665.8	702.8	713.9	723.0	730.0	736.9	741.1	737.6
55°	669.3	669.3	670.0	693.0	748.1	766.2	786.4	801.1	810.1	826.9	833.8
57.5°	718.1	714.6	713.9	738.3	802.5	821.3	850.6	871.5	884.0	918.2	917.5
60°	704.2	705.6	730.7	802.5	914.0	930.7	957.2	979.5	1003.3	1028.4	1030.4
62.5°	607.3	610.7	648.4	755.8	985.1	1072.3	1153.8	1215.9	1250.8	1273.1	1242.4
65°	425.3	433.7	484.5	615.6	907.0	1041.6	1170.6	1314.2	1424.4	1595.2	1644.7
67.5°	211.9	218.2	226.6	322.8	677.7	866.6	1044.4	1240.3	1386.7	1637.7	1777.8
70°	152.0	154.8	161.1	181.3	303.3	453.9	663.0	943.3	1115.5	1494.1	1692.1
72.5°	117.8	120.6	129.0	157.6	200.8	221.7	263.5	430.9	640.7	1031.8	1299.6
75°	91.3	95.5	107.4	142.2	193.1	205.0	207.1	222.4	253.8	458.1	728.6
77.5°	64.1	64.8	76.7	122.7	187.5	210.6	207.1	207.1	211.2	233.6	311.6
80°	42.5	43.2	50.9	85.1	164.5	191.7	211.9	202.2	202.9	206.4	211.9
82.5°	22.3	23.7	30.0	51.6	96.2	129.7	176.4	184.1	181.3	184.8	183.4
85°	6.3	6.3	10.5	19.5	47.4	50.2	78.1	106.7	108.8	123.4	131.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.8	6.3	7.0
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):

	52.5°	55°	57.5°	59°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1
2.5°	536.8	534.0	533.3	532.0	532.7	530.6	529.9	527.1	527.1	525.7	524.3
5°	540.3	537.5	540.3	535.4	536.1	534.0	530.6	530.6	527.8	525.7	521.5
7.5°	530.6	530.6	531.3	528.5	529.2	528.5	524.3	523.6	519.4	519.4	514.5
10°	512.4	512.4	515.2	513.1	513.8	513.1	511.0	510.3	508.9	508.9	501.3
12.5°	491.5	495.7	499.9	497.8	497.8	499.2	499.2	499.9	499.2	498.5	492.2
15°	474.1	480.4	484.5	483.8	484.5	488.0	489.4	490.1	492.2	491.5	485.9
17.5°	458.1	465.0	468.5	471.3	473.4	476.2	480.4	482.5	485.2	484.5	479.0
20°	443.4	449.7	456.0	459.4	460.1	465.7	470.6	476.9	478.3	479.7	472.7
22.5°	428.1	433.7	446.2	444.1	449.0	459.4	462.2	471.3	471.3	476.2	466.4
25°	414.8	415.5	435.0	431.6	435.7	454.6	456.7	472.7	468.5	475.5	464.3
27.5°	401.6	400.9	424.6	420.4	425.3	451.1	452.5	474.8	470.6	479.0	464.3
30°	391.8	389.7	416.9	408.6	415.5	447.6	448.3	476.9	473.4	484.5	469.2
32.5°	389.7	386.2	409.9	403.7	410.6	444.1	448.3	484.5	480.4	494.3	474.8
35°	398.8	393.2	413.4	407.9	413.4	445.5	451.8	496.4	491.5	507.6	488.0
37.5°	415.5	411.3	428.1	422.5	426.7	455.3	460.8	511.7	511.0	530.6	508.2
40°	444.8	440.6	453.9	446.2	449.7	476.2	479.0	533.3	535.4	559.1	536.8
42.5°	484.5	477.6	488.0	479.0	483.8	507.6	504.8	559.8	566.1	598.9	573.1
45°	535.4	526.4	532.7	522.9	526.4	546.6	538.9	595.4	601.7	642.1	619.1
47.5°	591.2	580.1	587.7	575.2	577.3	598.9	584.9	637.9	647.7	698.6	676.3
50°	658.1	643.5	646.3	634.4	635.8	657.4	642.1	690.2	702.1	758.5	739.0
52.5°	743.9	723.0	723.0	706.9	707.6	729.3	710.4	752.3	765.5	822.7	809.4
55°	856.8	840.1	836.6	819.9	814.3	818.5	792.0	821.3	835.9	889.6	879.2
57.5°	946.8	944.7	955.1	931.4	925.9	927.3	893.8	895.9	912.6	954.5	957.9
60°	1056.2	1059.7	1061.1	1041.6	1039.5	1020.0	985.8	980.2	1001.2	1029.7	1040.9
62.5°	1230.5	1227.1	1209.6	1195.0	1181.7	1129.4	1110.6	1079.9	1109.2	1125.3	1148.3
65°	1604.9	1568.7	1457.1	1466.9	1432.0	1318.4	1302.3	1240.3	1286.3	1287.0	1330.2
67.5°	1975.8	2046.9	1978.6	1980.0	1901.2	1695.6	1646.1	1522.7	1548.5	1518.5	1540.8
70°	2039.3	2139.0	2325.8	2292.4	2288.2	2129.9	1963.3	1757.6	1680.2	1616.1	1564.5
72.5°	1754.8	1854.5	2128.5	2052.5	2081.1	2129.2	1955.6	1801.5	1628.6	1547.1	1435.5
75°	1234.7	1378.3	1656.5	1616.8	1637.7	1717.2	1568.0	1549.8	1349.8	1295.4	1123.9
77.5°	661.6	839.4	1151.1	1102.3	1111.3	1156.6	1001.2	969.1	776.0	722.3	527.8
80°	297.7	412.7	646.3	591.9	575.9	550.1	405.1	319.3	195.2	129.7	89.9
82.5°	197.3	205.0	286.5	248.2	232.2	191.7	124.1	73.2	57.9	48.8	46.7
85°	132.5	121.3	120.6	106.7	99.0	78.1	57.9	36.3	30.0	25.1	23.0
87.5°	7.7	4.9	7.0	7.7	5.6	4.9	3.5	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°	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1
2.5°	520.8	520.8	520.1	515.2	512.4	511.0	506.2	505.5	503.4	502.7	502.7
5°	520.1	517.3	513.8	506.9	499.9	493.6	491.5	486.6	483.2	479.0	479.0
7.5°	510.3	507.6	499.9	489.4	480.4	471.3	466.4	459.4	453.9	448.3	446.9
10°	499.2	495.0	484.5	470.6	458.7	442.7	436.4	427.4	421.1	412.7	404.4
12.5°	487.3	484.5	472.0	456.0	437.8	417.6	407.9	395.3	386.9	377.2	364.6
15°	482.5	476.9	460.8	440.6	418.3	393.9	380.0	366.7	354.2	343.0	326.3
17.5°	476.2	469.2	451.1	427.4	399.5	370.2	352.1	337.4	320.7	308.9	290.0
20°	469.2	458.7	439.2	410.6	379.3	344.4	321.4	306.8	284.5	272.6	250.3
22.5°	463.6	450.4	426.7	394.6	357.0	317.9	290.7	274.0	248.9	235.0	207.1
25°	462.2	446.2	417.6	381.4	338.1	292.1	259.4	242.6	211.2	195.2	162.4
27.5°	462.9	444.1	412.0	370.2	321.4	269.1	230.1	210.6	170.8	154.1	116.4
30°	463.6	444.8	406.5	360.4	306.1	245.4	199.4	176.4	129.0	114.3	80.9
32.5°	470.6	447.6	405.1	352.8	292.1	221.7	164.5	143.6	91.3	83.0	60.0
35°	479.0	456.7	407.9	351.4	281.7	198.0	129.0	107.4	65.5	63.4	48.8
37.5°	496.4	470.6	419.0	354.9	275.4	173.6	96.2	82.3	51.6	53.0	42.5
40°	522.9	494.3	437.1	365.3	274.7	149.2	71.1	64.1	44.6	46.0	39.0
42.5°	558.4	527.1	465.0	387.6	278.2	126.2	57.2	55.1	41.1	42.5	37.6
45°	605.2	573.1	504.1	416.2	287.9	107.4	50.2	50.2	39.7	41.1	37.0
47.5°	664.4	628.9	552.2	454.6	303.3	96.9	47.4	48.1	39.0	41.1	37.0
50°	731.3	692.3	613.5	504.1	327.0	94.1	48.1	48.1	39.7	41.1	37.0
52.5°	801.1	764.8	679.8	560.5	359.7	100.4	49.5	48.8	39.7	41.1	36.3
55°	872.2	839.4	753.0	626.8	405.1	122.7	53.0	50.9	39.7	41.1	37.0
57.5°	943.3	920.3	829.7	697.9	461.5	163.1	66.9	59.3	43.9	44.6	37.6
60°	1023.5	1006.7	916.1	791.3	541.7	225.9	98.3	74.6	52.3	49.5	40.4
62.5°	1127.4	1123.2	1051.4	925.9	670.7	316.5	139.4	90.6	56.5	51.6	43.2
65°	1310.7	1321.9	1253.5	1083.4	756.4	318.6	136.0	79.5	53.0	48.8	42.5
67.5°	1494.8	1462.0	1286.3	1059.7	682.5	211.9	86.5	62.0	46.7	45.3	39.7
70°	1487.8	1398.6	1166.4	926.6	538.9	115.0	62.7	51.6	41.8	41.8	37.6
72.5°	1334.4	1202.0	953.8	733.4	359.7	73.2	53.0	45.3	38.3	37.6	34.9
75°	1004.6	848.5	612.8	422.5	160.4	47.4	40.4	37.0	33.5	33.5	30.7
77.5°	472.7	266.3	147.8	98.3	53.7	32.1	27.9	27.9	27.2	27.9	25.1
80°	64.1	57.9	49.5	43.2	32.8	22.3	20.2	20.9	20.2	20.9	18.8
82.5°	39.0	34.9	28.6	27.2	20.2	15.3	14.6	15.3	13.9	14.6	11.2
85°	18.8	16.7	13.2	12.5	10.5	9.1	7.7	9.1	7.0	7.7	4.9
87.5°	0.0	1.4	0.7	1.4	1.4	1.4	0.0	1.4	0.0	1.4	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°	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1
2.5°	499.2	497.1	496.4	493.6	492.9	490.1	489.4	486.6	481.8	479.7	476.2
5°	472.7	469.2	466.4	465.0	459.4	456.7	452.5	446.9	436.4	431.6	423.2
7.5°	435.7	435.0	426.7	423.9	416.9	412.0	405.8	396.7	381.4	372.3	359.1
10°	395.3	392.5	382.8	377.2	368.1	361.1	352.8	339.5	315.8	297.0	276.8
12.5°	357.7	349.3	338.1	329.8	318.6	308.9	299.1	278.9	241.2	210.6	182.7
15°	318.6	306.1	294.2	280.3	268.4	253.1	241.9	215.4	165.9	128.3	110.9
17.5°	278.9	261.4	248.2	229.4	216.1	195.2	183.4	151.3	108.8	92.0	86.5
20°	237.0	214.0	199.4	176.4	163.1	136.6	127.6	104.6	83.7	77.4	76.0
22.5°	192.4	164.5	148.5	123.4	114.3	98.3	91.3	80.2	70.4	67.6	69.0
25°	145.7	115.7	105.3	87.1	83.7	75.3	72.5	66.9	62.0	62.0	64.1
27.5°	103.9	80.9	78.1	66.9	66.2	62.0	60.0	57.2	55.8	57.2	60.0
30°	76.0	61.4	61.4	55.1	55.1	52.3	51.6	50.2	50.2	53.0	55.8
32.5°	60.0	50.2	51.6	46.7	47.4	45.3	46.0	45.3	46.0	48.1	50.2
35°	50.2	43.2	45.3	41.1	42.5	40.4	41.8	41.8	43.2	43.9	44.6
37.5°	44.6	39.7	41.1	38.3	39.7	37.6	39.7	39.7	40.4	40.4	40.4
40°	41.1	37.0	39.0	36.3	38.3	36.3	38.3	38.3	37.6	37.0	37.6
42.5°	39.0	36.3	38.3	35.6	37.6	35.6	37.0	36.3	34.9	34.9	34.9
45°	38.3	35.6	37.0	34.9	36.3	34.2	35.6	34.9	32.8	32.1	33.5
47.5°	38.3	34.9	37.0	34.2	35.6	33.5	34.9	32.8	30.7	30.7	32.8
50°	38.3	34.9	37.0	34.2	35.6	32.8	33.5	31.4	28.6	29.3	32.1
52.5°	39.0	36.3	37.6	34.9	35.6	31.4	32.8	30.0	27.9	28.6	30.7
55°	39.7	36.3	37.6	33.5	34.2	31.4	31.4	30.0	27.9	27.9	30.0
57.5°	39.7	35.6	36.3	32.8	33.5	30.0	30.7	29.3	27.2	26.5	27.9
60°	41.1	37.0	37.0	32.1	32.8	29.3	30.0	28.6	26.5	25.1	25.8
62.5°	42.5	37.6	38.3	33.5	33.5	30.0	30.7	27.9	25.1	23.7	24.4
65°	42.5	37.6	38.3	34.2	34.2	30.7	30.7	27.9	23.7	22.3	22.3
67.5°	40.4	37.0	37.6	34.2	34.2	30.7	30.7	27.2	23.0	20.9	20.2
70°	39.0	35.6	36.3	32.1	32.8	29.3	29.3	25.8	21.6	19.5	18.1
72.5°	35.6	32.8	32.8	30.0	29.3	25.8	25.8	23.7	20.2	17.4	16.0
75°	30.7	27.9	27.2	24.4	24.4	22.3	21.6	19.5	16.7	14.6	13.9
77.5°	25.1	21.6	21.6	18.1	18.1	16.0	16.7	14.6	12.5	11.9	11.2
80°	18.1	14.6	14.6	11.9	11.9	9.8	10.5	9.8	9.1	9.1	8.4
82.5°	11.2	7.7	8.4	6.3	7.7	5.6	6.3	5.6	5.6	4.9	4.9
85°	5.6	2.8	4.2	2.1	3.5	0.7	2.1	1.4	1.4	1.4	1.4
87.5°	0.7	0.0	0.7	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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	175°	180°
0°	520.1	520.1
2.5°	472.7	474.8
5°	420.4	421.1
7.5°	357.0	355.6
10°	272.6	269.1
12.5°	175.7	170.8
15°	106.0	104.6
17.5°	85.1	85.1
20°	76.0	76.0
22.5°	70.4	70.4
25°	66.2	66.9
27.5°	62.7	62.7
30°	58.6	58.6
32.5°	51.6	51.6
35°	46.0	45.3
37.5°	41.1	41.8
40°	37.6	38.3
42.5°	36.3	36.3
45°	34.9	34.9
47.5°	34.9	34.9
50°	34.2	34.9
52.5°	33.5	33.5
55°	31.4	32.1
57.5°	29.3	30.0
60°	27.2	27.2
62.5°	24.4	24.4
65°	22.3	22.3
67.5°	19.5	19.5
70°	17.4	17.4
72.5°	15.3	15.3
75°	13.2	13.2
77.5°	11.2	10.5
80°	8.4	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)