

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: P271493

Luminaire Tested: **ISS-AF-350-LED-E1-SL3-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271493  
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-SL3-7027  
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**

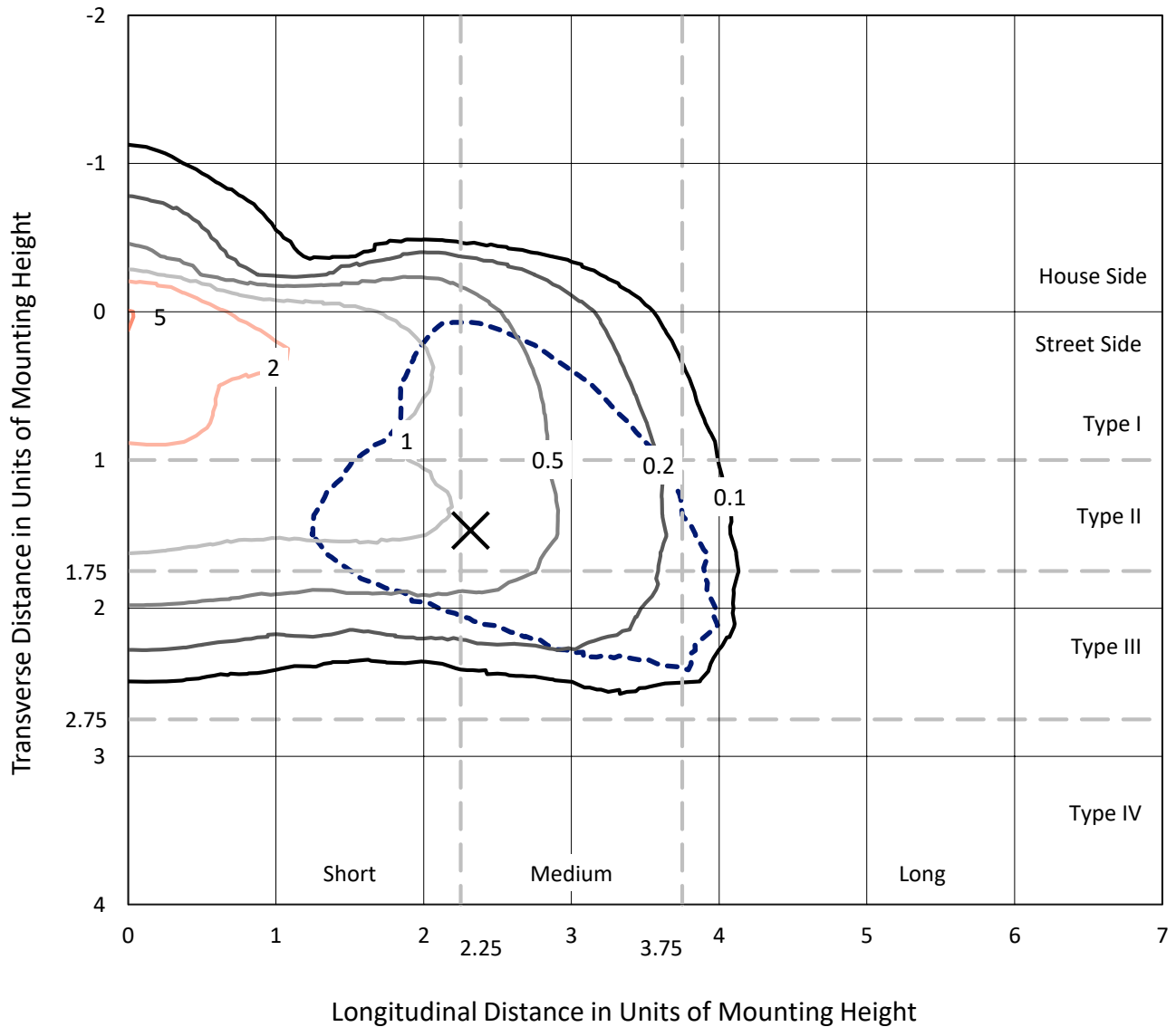
Lumens per Lamp: N/A  
Luminaire Lumens: 1928.6 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 20.09  
Input Voltage (V): 120  
Input 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

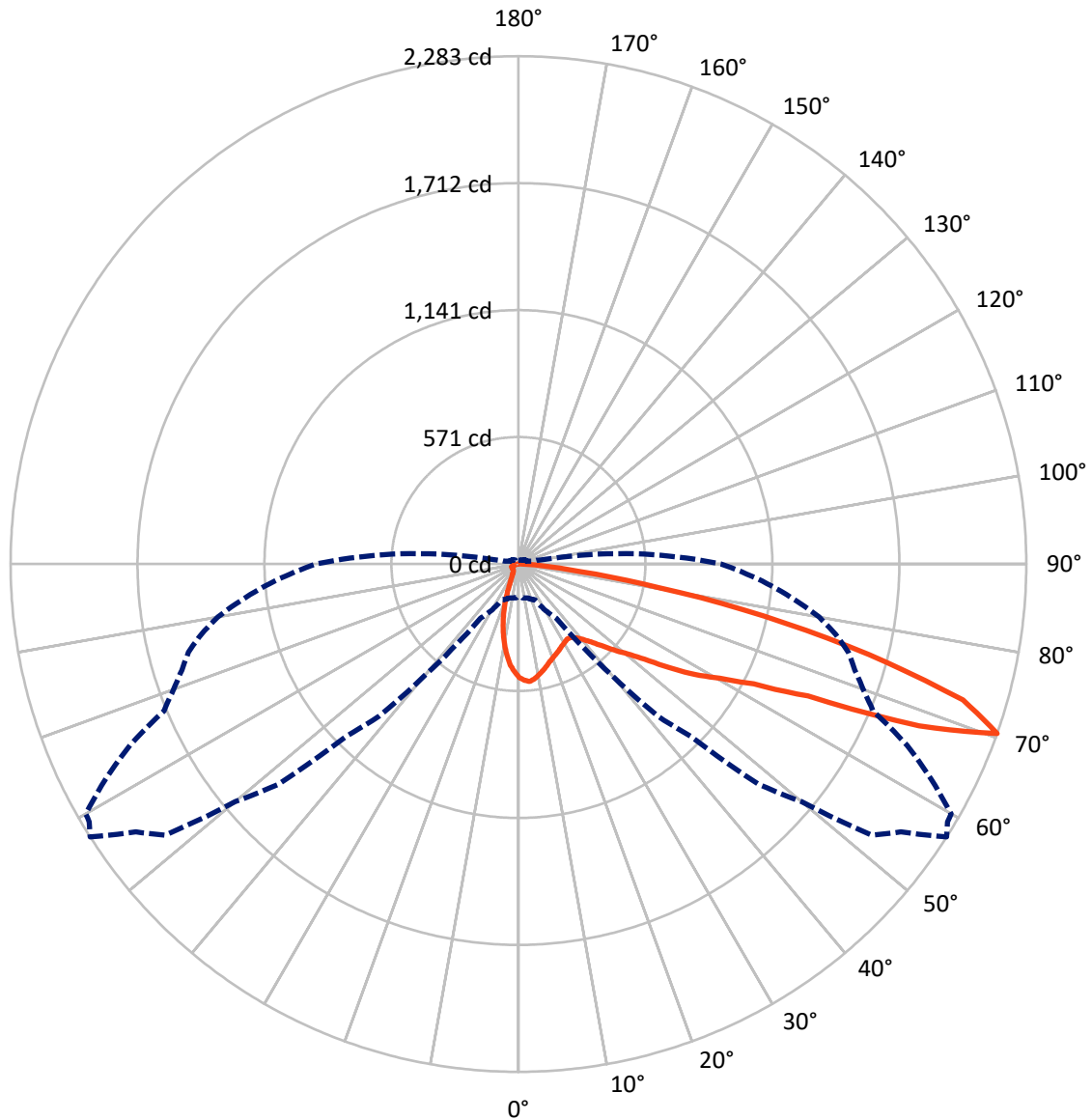
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 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
<b>House Side</b>	Lumens	238.7	0.0	238.7
	% Fixture	12.4	0.0	12.4
<b>Street Side</b>	Lumens	1690.0	0.0	1690.0
	% Fixture	87.6	0.0	87.6
<b>Total</b>	Lumens	1928.6	0.0	1928.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.1	2.3
10°-20°	95.7	5.0
20°-30°	120.3	6.2
30°-40°	157.2	8.1
40°-50°	235.8	12.2
50°-60°	372.8	19.3
60°-70°	537.3	27.9
70°-80°	332.6	17.2
80°-90°	33.0	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°	1928.6	100.0
0°-180°	1928.6	100.0



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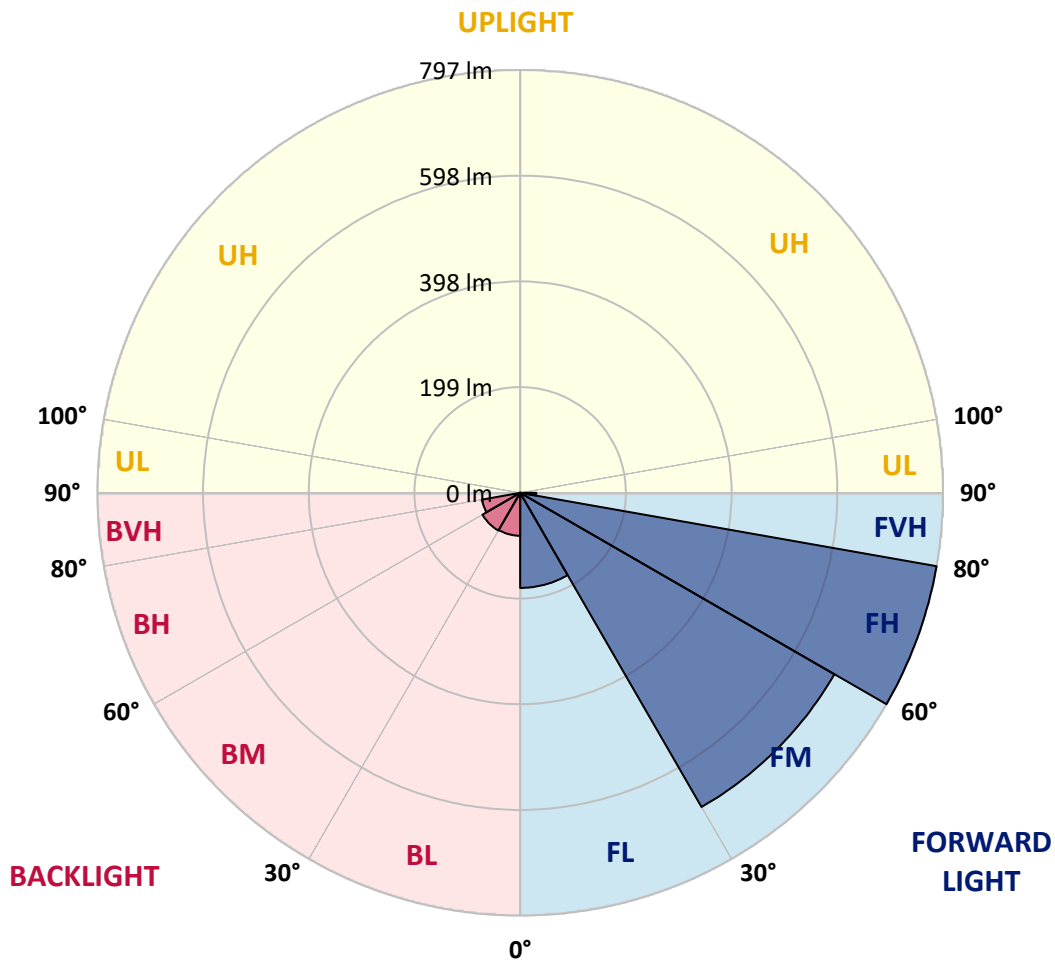
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	179.1	9.3			
FM (30°-60°)	683.7	35.4			
FH (60°-80°)	796.8	41.3			G1/1800
FVH (80°-90°)	30.4	1.6			G1/100
BL (0°-30°)	80.9	4.2	B0/110		
BM (30°-60°)	82.1	4.3	B0/220		
BH (60°-80°)	73.0	3.8	B0/110		G0/110
BVH (80°-90°)	2.6	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°	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5
2.5°	535.7	535.1	533.8	531.0	529.6	531.0	529.6	527.6	524.8	526.9	525.5
5°	534.4	535.7	533.1	531.0	534.4	535.7	533.1	533.1	530.3	533.1	531.7
7.5°	507.7	508.4	509.1	508.4	517.3	517.3	516.0	517.3	518.1	519.4	520.1
10°	474.2	474.8	476.2	478.3	489.3	490.7	491.4	492.7	494.8	496.1	500.2
12.5°	440.7	442.1	444.8	451.6	463.3	464.6	466.7	468.7	472.1	474.2	481.7
15°	412.6	413.3	416.1	423.6	440.7	444.1	445.5	448.3	455.0	455.0	463.3
17.5°	386.6	388.0	390.0	398.9	416.1	421.6	425.7	427.0	435.9	437.9	447.5
20°	366.8	367.5	368.1	376.4	392.1	400.4	403.7	409.2	416.1	421.6	429.7
22.5°	355.8	356.4	355.1	358.5	372.3	382.5	386.6	392.1	394.9	404.3	409.2
25°	356.4	357.2	353.8	351.8	358.5	369.6	373.0	378.4	377.1	390.8	390.8
27.5°	363.4	364.7	361.3	355.1	355.8	364.7	366.8	368.8	364.7	378.4	375.7
30°	377.1	378.4	374.3	369.6	361.9	367.5	367.5	367.5	360.0	371.6	366.8
32.5°	391.4	392.8	391.4	388.0	378.4	379.7	377.1	375.7	365.4	375.0	367.5
35°	412.6	413.3	414.0	414.0	400.4	403.0	395.5	391.4	381.8	389.3	379.1
37.5°	437.9	437.9	442.8	444.8	429.7	429.7	421.6	416.1	407.1	409.9	399.7
40°	460.5	462.5	473.6	479.6	466.0	460.5	453.6	449.0	442.1	442.1	431.7
42.5°	486.5	490.7	503.6	515.3	507.7	499.5	492.7	487.9	484.5	483.7	472.9
45°	518.7	523.4	537.8	548.8	550.8	544.7	539.3	534.4	531.7	530.3	520.7
47.5°	555.0	559.7	572.7	585.8	595.4	594.0	587.9	583.0	585.1	583.7	577.5
50°	595.4	598.0	606.3	621.3	643.3	647.9	646.6	643.3	647.3	647.3	641.9
52.5°	627.5	629.5	635.7	653.4	689.8	700.7	709.6	716.5	723.2	727.4	723.9
55°	656.9	656.9	657.6	680.2	734.3	752.0	771.8	786.3	795.1	811.6	818.4
57.5°	704.8	701.4	700.7	724.7	787.6	806.0	834.9	855.4	867.7	901.2	900.6
60°	691.2	692.5	717.2	787.6	897.0	913.5	939.4	961.4	984.7	1009.3	1011.3
62.5°	596.0	599.3	636.4	741.8	966.8	1052.5	1132.4	1193.4	1227.6	1249.5	1219.4
65°	417.4	425.7	475.6	604.2	890.2	1022.3	1148.9	1289.9	1398.0	1565.7	1614.3
67.5°	208.0	214.2	222.4	316.8	665.1	850.5	1025.1	1217.3	1361.0	1607.3	1744.9
70°	149.2	151.9	158.1	178.0	297.7	445.5	650.7	925.8	1094.9	1466.4	1660.8
72.5°	115.6	118.4	126.6	154.7	197.1	217.6	258.6	422.9	628.8	1012.7	1275.5
75°	89.7	93.7	105.4	139.6	189.5	201.2	203.3	218.3	249.1	449.6	715.1
77.5°	62.9	63.6	75.3	120.5	184.1	206.7	203.3	203.3	207.3	229.2	305.9
80°	41.7	42.4	49.9	83.5	161.4	188.1	208.0	198.4	199.2	202.6	208.0
82.5°	21.9	23.3	29.5	50.7	94.4	127.3	173.1	180.6	178.0	181.4	180.0
85°	6.2	6.2	10.3	19.1	46.5	49.2	76.6	104.7	106.8	121.1	129.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.8	6.2	6.8
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°	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5
2.5°	526.9	524.1	523.4	522.2	522.8	520.7	520.1	517.3	517.3	516.0	514.5
5°	530.3	527.6	530.3	525.5	526.1	524.1	520.7	520.7	518.1	516.0	511.9
7.5°	520.7	520.7	521.5	518.7	519.4	518.7	514.5	513.9	509.8	509.8	504.9
10°	502.9	502.9	505.7	503.6	504.3	503.6	501.5	500.9	499.5	499.5	492.0
12.5°	482.4	486.5	490.7	488.6	488.6	489.9	489.9	490.7	489.9	489.3	483.1
15°	465.3	471.5	475.6	474.8	475.6	479.0	480.3	481.0	483.1	482.4	476.9
17.5°	449.6	456.4	459.8	462.5	464.6	467.4	471.5	473.6	476.2	475.6	470.2
20°	435.2	441.3	447.5	450.9	451.6	457.1	461.9	468.1	469.5	470.8	464.0
22.5°	420.1	425.7	437.9	435.9	440.7	450.9	453.6	462.5	462.5	467.4	457.8
25°	407.1	407.8	427.0	423.6	427.6	446.2	448.3	464.0	459.8	466.7	455.7
27.5°	394.2	393.5	416.7	412.6	417.4	442.8	444.1	466.0	461.9	470.2	455.7
30°	384.6	382.5	409.2	401.0	407.8	439.3	440.0	468.1	464.6	475.6	460.5
32.5°	382.5	379.1	402.4	396.2	403.0	435.9	440.0	475.6	471.5	485.2	466.0
35°	391.4	385.9	405.8	400.4	405.8	437.3	443.4	487.2	482.4	498.2	479.0
37.5°	407.8	403.7	420.1	414.7	418.8	446.9	452.3	502.2	501.5	520.7	498.8
40°	436.6	432.4	445.5	437.9	441.3	467.4	470.2	523.4	525.5	548.8	526.9
42.5°	475.6	468.7	479.0	470.2	474.8	498.2	495.4	549.4	555.6	587.9	562.5
45°	525.5	516.6	522.8	513.2	516.6	536.5	528.9	584.3	590.5	630.3	607.6
47.5°	580.2	569.3	576.8	564.6	566.7	587.9	574.1	626.1	635.7	685.7	663.8
50°	645.9	631.6	634.3	622.6	624.1	645.3	630.3	677.4	689.1	744.4	725.3
52.5°	730.1	709.6	709.6	693.9	694.5	715.8	697.3	738.4	751.3	807.5	794.4
55°	840.9	824.6	821.1	804.7	799.2	803.4	777.3	806.0	820.4	873.2	862.9
57.5°	929.3	927.2	937.4	914.1	908.7	910.2	877.3	879.4	895.7	936.8	940.2
60°	1036.6	1040.1	1041.5	1022.3	1020.3	1001.1	967.6	962.1	982.7	1010.6	1021.6
62.5°	1207.7	1204.4	1187.2	1172.8	1159.8	1108.5	1090.0	1059.9	1088.7	1104.5	1127.0
65°	1575.2	1539.7	1430.1	1439.7	1405.5	1294.0	1278.2	1217.3	1262.5	1263.2	1305.6
67.5°	1939.2	2009.0	1942.0	1943.3	1866.0	1664.2	1615.6	1494.5	1519.8	1490.4	1512.3
70°	2001.5	2099.4	2282.8	2250.0	2245.9	2090.4	1927.0	1725.0	1649.1	1586.1	1535.6
72.5°	1722.3	1820.1	2089.1	2014.4	2042.6	2089.7	1919.4	1768.1	1598.4	1518.5	1408.9
75°	1211.8	1352.8	1625.8	1586.9	1607.3	1685.4	1539.0	1521.1	1324.8	1271.4	1103.1
77.5°	649.4	823.8	1129.8	1081.9	1090.7	1135.2	982.7	951.1	761.7	708.9	518.1
80°	292.2	405.0	634.3	580.9	565.2	539.9	397.6	313.4	191.6	127.3	88.2
82.5°	193.7	201.2	281.2	243.6	227.9	188.1	121.8	71.9	56.9	47.9	45.8
85°	130.1	119.0	118.4	104.7	97.2	76.6	56.9	35.7	29.5	24.6	22.5
87.5°	7.5	4.9	6.8	7.5	5.5	4.9	3.4	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°	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5
2.5°	511.1	511.1	510.5	505.7	502.9	501.5	496.9	496.1	494.1	493.3	493.3
5°	510.5	507.7	504.3	497.5	490.7	484.5	482.4	477.6	474.2	470.2	470.2
7.5°	500.9	498.2	490.7	480.3	471.5	462.5	457.8	450.9	445.5	440.0	438.6
10°	489.9	485.8	475.6	461.9	450.2	434.5	428.3	419.5	413.3	405.0	396.9
12.5°	478.3	475.6	463.3	447.5	429.7	409.9	400.4	388.0	379.7	370.2	357.9
15°	473.6	468.1	452.3	432.4	410.5	386.6	373.0	360.0	347.6	336.7	320.2
17.5°	467.4	460.5	442.8	419.5	392.1	363.4	345.6	331.1	314.8	303.2	284.7
20°	460.5	450.2	431.1	403.0	372.3	338.0	315.5	301.1	279.2	267.5	245.7
22.5°	455.0	442.1	418.8	387.3	350.4	312.0	285.3	269.0	244.2	230.7	203.3
25°	453.6	437.9	409.9	374.3	331.8	286.6	254.6	238.1	207.3	191.6	159.4
27.5°	454.4	435.9	404.3	363.4	315.5	264.1	225.8	206.7	167.6	151.3	114.3
30°	455.0	436.6	398.9	353.8	300.4	240.8	195.7	173.1	126.6	112.2	79.4
32.5°	461.9	439.3	397.6	346.3	286.6	217.6	161.4	140.9	89.7	81.5	58.9
35°	470.2	448.3	400.4	344.9	276.5	194.3	126.6	105.4	64.3	62.3	47.9
37.5°	487.2	461.9	411.2	348.4	270.3	170.4	94.4	80.8	50.7	52.0	41.7
40°	513.2	485.2	429.0	358.5	269.6	146.4	69.8	62.9	43.7	45.2	38.3
42.5°	548.1	517.3	456.4	380.4	273.1	123.9	56.1	54.1	40.3	41.7	36.9
45°	594.0	562.5	494.8	408.5	282.6	105.4	49.2	49.2	39.0	40.3	36.3
47.5°	652.1	617.2	541.9	446.2	297.7	95.1	46.5	47.3	38.3	40.3	36.3
50°	717.7	679.5	602.1	494.8	321.0	92.3	47.3	47.3	39.0	40.3	36.3
52.5°	786.3	750.6	667.2	550.1	353.0	98.5	48.6	47.9	39.0	40.3	35.7
55°	856.1	823.8	739.0	615.2	397.6	120.5	52.0	49.9	39.0	40.3	36.3
57.5°	925.8	903.2	814.3	685.0	452.9	160.1	65.7	58.2	43.1	43.7	36.9
60°	1004.6	988.0	899.1	776.7	531.7	221.7	96.5	73.2	51.3	48.6	39.6
62.5°	1106.5	1102.4	1032.0	908.7	658.3	310.6	136.8	88.9	55.4	50.7	42.4
65°	1286.5	1297.4	1230.3	1063.3	742.4	312.7	133.5	78.1	52.0	47.9	41.7
67.5°	1467.1	1435.0	1262.5	1040.1	669.9	208.0	84.9	60.8	45.8	44.5	39.0
70°	1460.3	1372.7	1144.8	909.4	528.9	112.8	61.5	50.7	41.1	41.1	36.9
72.5°	1309.7	1179.7	936.1	719.8	353.0	71.9	52.0	44.5	37.5	36.9	34.2
75°	986.0	832.8	601.4	414.7	157.5	46.5	39.6	36.3	32.9	32.9	30.1
77.5°	464.0	261.4	145.1	96.5	52.7	31.5	27.4	27.4	26.7	27.4	24.6
80°	62.9	56.9	48.6	42.4	32.2	21.9	19.9	20.5	19.9	20.5	18.4
82.5°	38.3	34.2	28.0	26.7	19.9	15.0	14.4	15.0	13.7	14.4	11.0
85°	18.4	16.3	12.9	12.3	10.3	8.9	7.5	8.9	6.8	7.5	4.9
87.5°	0.0	1.3	0.7	1.3	1.3	1.3	0.0	1.3	0.0	1.3	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°	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5
2.5°	489.9	487.9	487.2	484.5	483.7	481.0	480.3	477.6	472.9	470.8	467.4
5°	464.0	460.5	457.8	456.4	450.9	448.3	444.1	438.6	428.3	423.6	415.4
7.5°	427.6	427.0	418.8	416.1	409.2	404.3	398.3	389.3	374.3	365.4	352.5
10°	388.0	385.2	375.7	370.2	361.3	354.4	346.3	333.2	309.9	291.5	271.6
12.5°	351.1	342.8	331.8	323.7	312.7	303.2	293.6	273.7	236.7	206.7	179.3
15°	312.7	300.4	288.7	275.2	263.5	248.4	237.4	211.4	162.9	125.9	108.9
17.5°	273.7	256.6	243.6	225.1	212.1	191.6	180.0	148.5	106.8	90.3	84.9
20°	232.6	210.0	195.7	173.1	160.1	134.0	125.2	102.7	82.1	76.0	74.6
22.5°	188.8	161.4	145.7	121.1	112.2	96.5	89.7	78.7	69.1	66.4	67.7
25°	143.0	113.5	103.3	85.5	82.1	73.9	71.1	65.7	60.8	60.8	62.9
27.5°	102.0	79.4	76.6	65.7	64.9	60.8	58.9	56.1	54.8	56.1	58.9
30°	74.6	60.3	60.3	54.1	54.1	51.3	50.7	49.2	49.2	52.0	54.8
32.5°	58.9	49.2	50.7	45.8	46.5	44.5	45.2	44.5	45.2	47.3	49.2
35°	49.2	42.4	44.5	40.3	41.7	39.6	41.1	41.1	42.4	43.1	43.7
37.5°	43.7	39.0	40.3	37.5	39.0	36.9	39.0	39.0	39.6	39.6	39.6
40°	40.3	36.3	38.3	35.7	37.5	35.7	37.5	37.5	36.9	36.3	36.9
42.5°	38.3	35.7	37.5	34.9	36.9	34.9	36.3	35.7	34.2	34.2	34.2
45°	37.5	34.9	36.3	34.2	35.7	33.6	34.9	34.2	32.2	31.5	32.9
47.5°	37.5	34.2	36.3	33.6	34.9	32.9	34.2	32.2	30.1	30.1	32.2
50°	37.5	34.2	36.3	33.6	34.9	32.2	32.9	30.8	28.0	28.7	31.5
52.5°	38.3	35.7	36.9	34.2	34.9	30.8	32.2	29.5	27.4	28.0	30.1
55°	39.0	35.7	36.9	32.9	33.6	30.8	30.8	29.5	27.4	27.4	29.5
57.5°	39.0	34.9	35.7	32.2	32.9	29.5	30.1	28.7	26.7	26.1	27.4
60°	40.3	36.3	36.3	31.5	32.2	28.7	29.5	28.0	26.1	24.6	25.3
62.5°	41.7	36.9	37.5	32.9	32.9	29.5	30.1	27.4	24.6	23.3	24.0
65°	41.7	36.9	37.5	33.6	33.6	30.1	30.1	27.4	23.3	21.9	21.9
67.5°	39.6	36.3	36.9	33.6	33.6	30.1	30.1	26.7	22.5	20.5	19.9
70°	38.3	34.9	35.7	31.5	32.2	28.7	28.7	25.3	21.2	19.1	17.8
72.5°	34.9	32.2	32.2	29.5	28.7	25.3	25.3	23.3	19.9	17.1	15.7
75°	30.1	27.4	26.7	24.0	24.0	21.9	21.2	19.1	16.3	14.4	13.7
77.5°	24.6	21.2	21.2	17.8	17.8	15.7	16.3	14.4	12.3	11.7	11.0
80°	17.8	14.4	14.4	11.7	11.7	9.6	10.3	9.6	8.9	8.9	8.3
82.5°	11.0	7.5	8.3	6.2	7.5	5.5	6.2	5.5	5.5	4.9	4.9
85°	5.5	2.8	4.1	2.1	3.4	0.7	2.1	1.3	1.3	1.3	1.3
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°	510.5	510.5
2.5°	464.0	466.0
5°	412.6	413.3
7.5°	350.4	349.0
10°	267.5	264.1
12.5°	172.5	167.6
15°	104.0	102.7
17.5°	83.5	83.5
20°	74.6	74.6
22.5°	69.1	69.1
25°	64.9	65.7
27.5°	61.5	61.5
30°	57.5	57.5
32.5°	50.7	50.7
35°	45.2	44.5
37.5°	40.3	41.1
40°	36.9	37.5
42.5°	35.7	35.7
45°	34.2	34.2
47.5°	34.2	34.2
50°	33.6	34.2
52.5°	32.9	32.9
55°	30.8	31.5
57.5°	28.7	29.5
60°	26.7	26.7
62.5°	24.0	24.0
65°	21.9	21.9
67.5°	19.1	19.1
70°	17.1	17.1
72.5°	15.0	15.0
75°	12.9	12.9
77.5°	11.0	10.3
80°	8.3	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)