

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: P271569

Luminaire Tested: **ISS-AF-350-LED-E1-T4FT-7027-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271569  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29760)-DOWNLIGHT AND  
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-T4FT-7027-ULG  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV FORWARD THROW, WITH UPLIGHT GLOW  
Light Source: (16) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

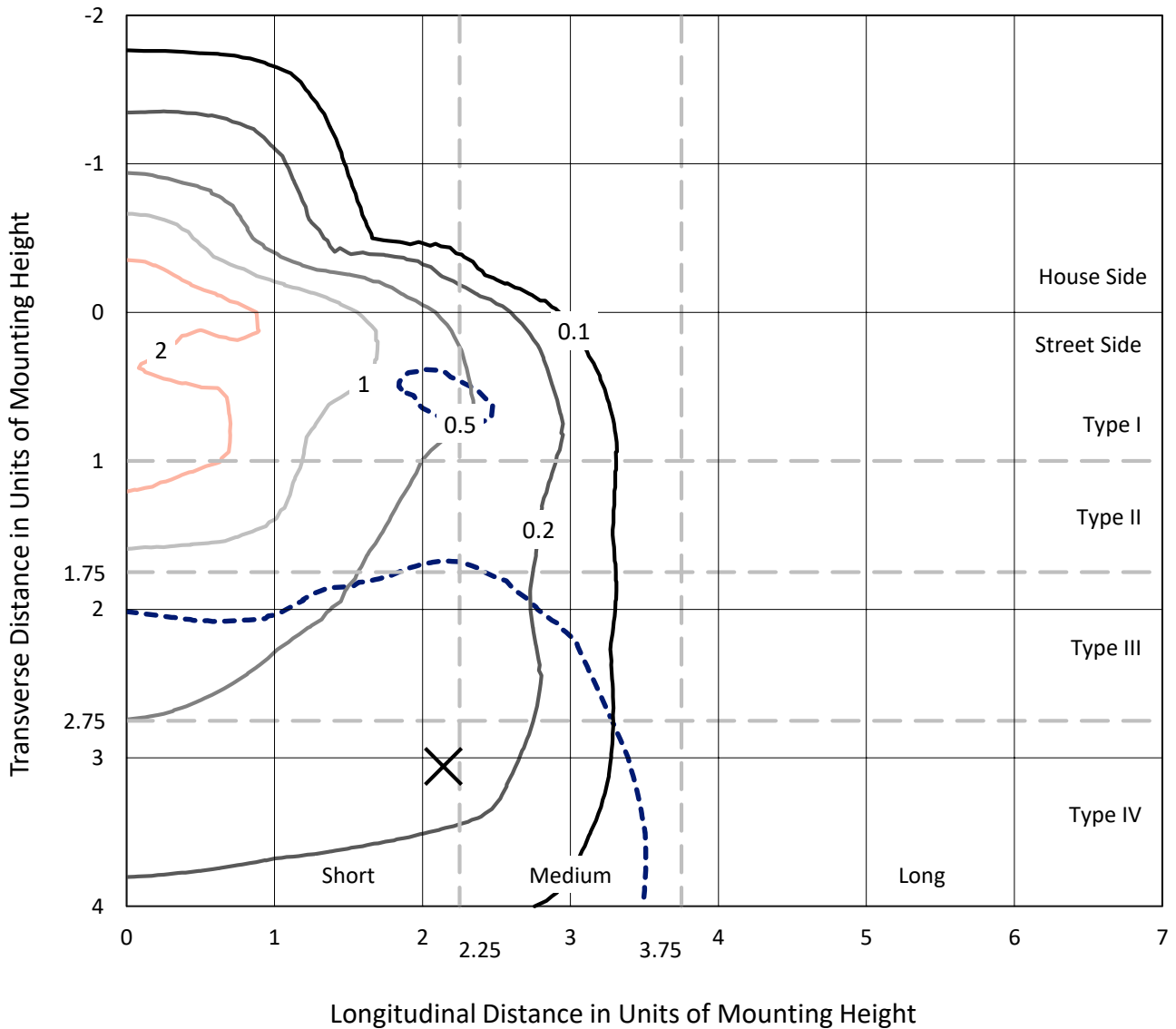
Lumens per Lamp: N/A  
Luminaire Lumens: 3450.1 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U5 - G1  
  
Input Watts (W): 36.79  
Input Voltage (V): 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

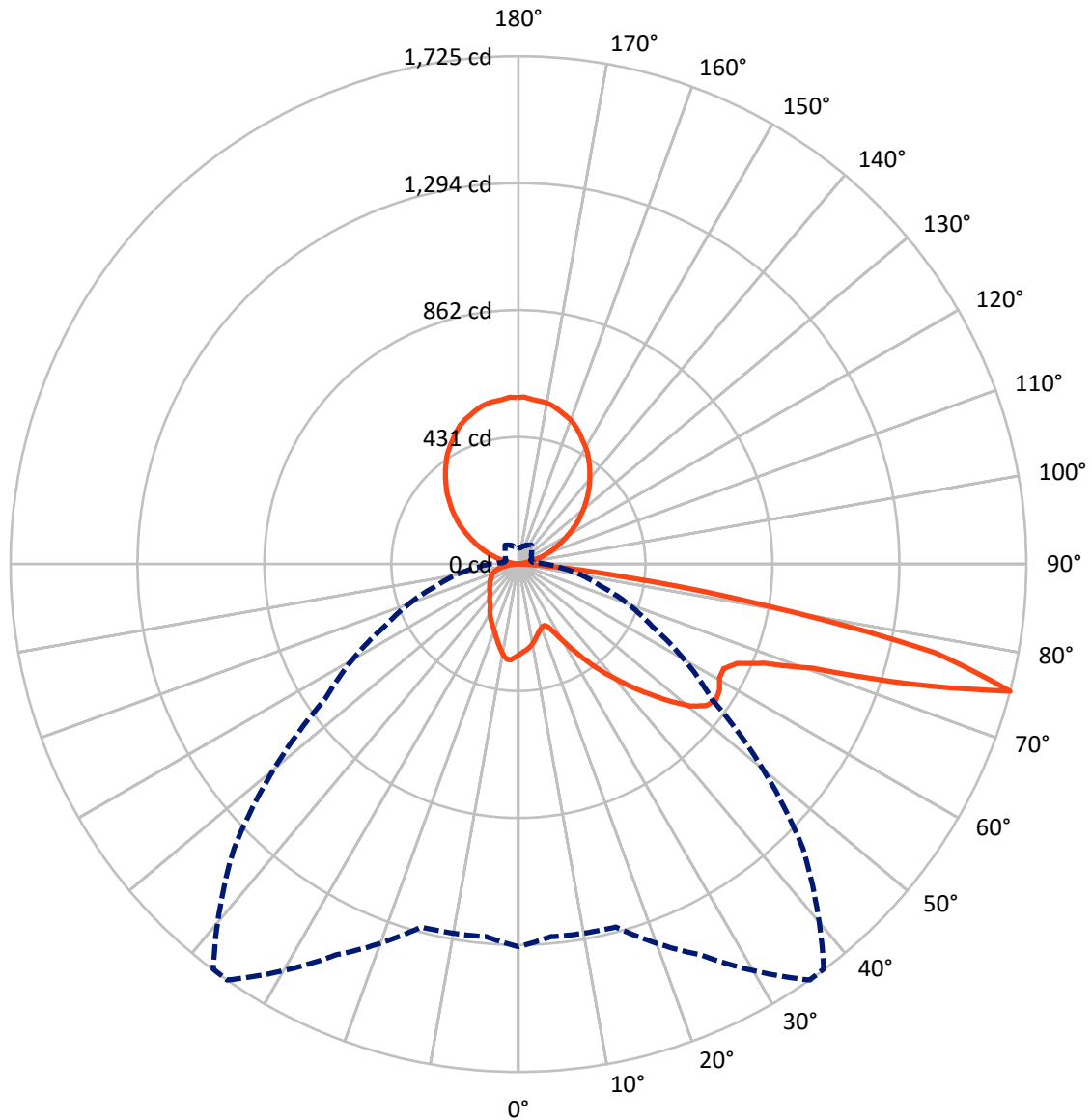
✕ Max cd  
 - - - 1/2 Max cd



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 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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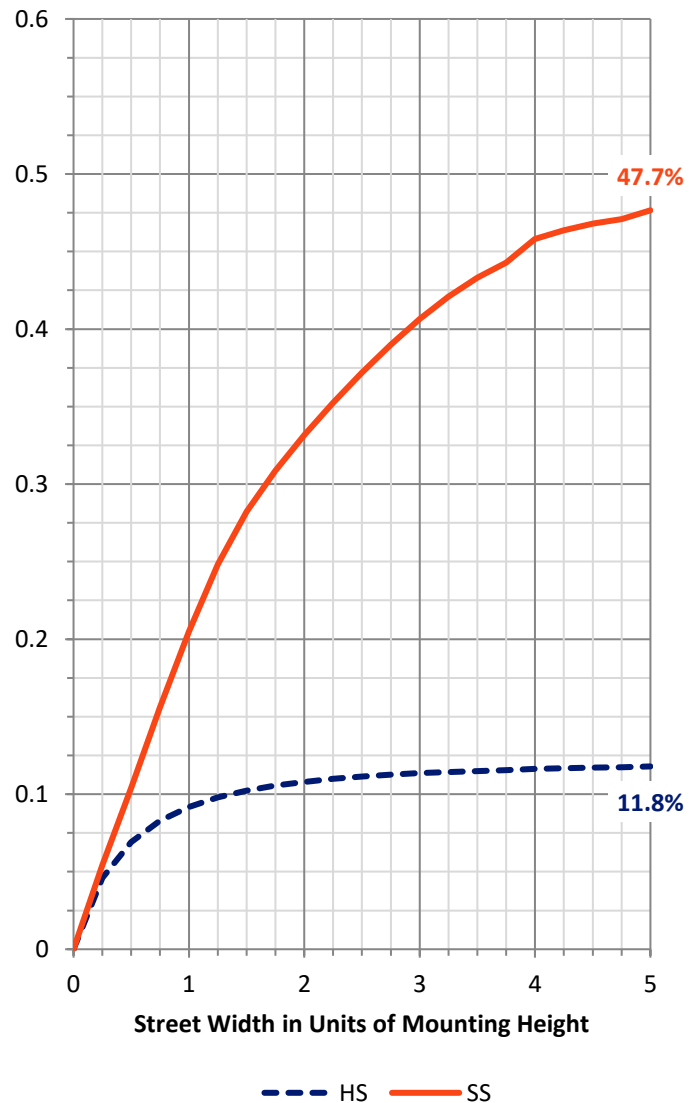
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	411.5	699.9	1111.4
	% Fixture	11.9	20.3	32.2
<b>Street Side</b>	Lumens	1638.8	699.9	2338.7
	% Fixture	47.5	20.3	67.8
<b>Total</b>	Lumens	2050.3	1399.8	3450.1
	% Fixture	59.4	40.6	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.9	0.8
10°-20°	76.3	2.2
20°-30°	120.7	3.5
30°-40°	194.8	5.6
40°-50°	288.2	8.4
50°-60°	370.6	10.7
60°-70°	458.9	13.3
70°-80°	462.4	13.4
80°-90°	49.4	1.4
90°-100°	4.7	0.1
100°-110°	67.7	2.0
110°-120°	150.2	4.4
120°-130°	219.7	6.4
130°-140°	260.7	7.6
140°-150°	264.3	7.7
150°-160°	226.8	6.6
160°-170°	152.2	4.4
170°-180°	53.3	1.5
0°-90°	2050.3	59.4
0°-180°	3450.1	100.0



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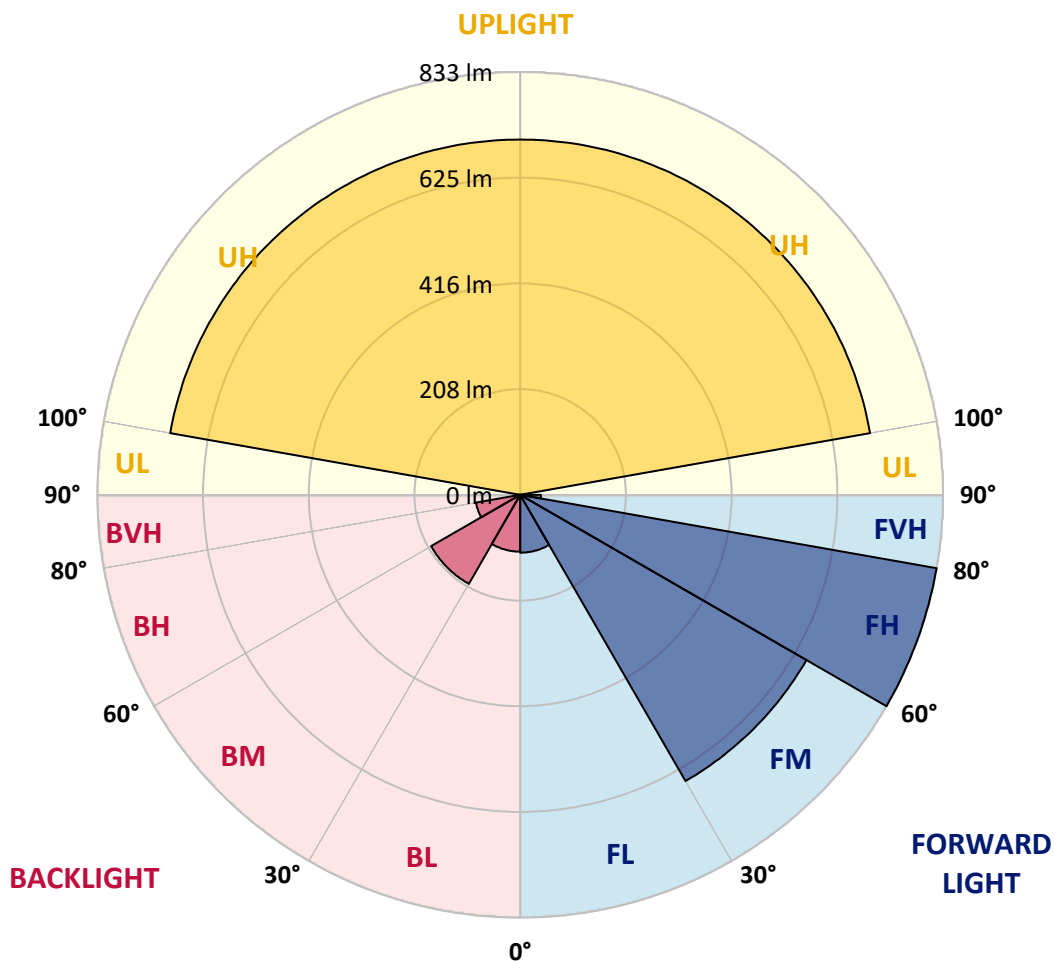
CATALOG NUMBER: ISS-AF-350-LED-E1-T4FT-7027-ULG

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	114.0	3.3			
FM	(30°-60°)	651.1	18.9			
FH	(60°-80°)	832.9	24.1			G1/1800
FVH	(80°-90°)	40.8	1.2			G1/100
BL	(0°-30°)	111.9	3.2	B1/500		
BM	(30°-60°)	202.6	5.9	B0/220		
BH	(60°-80°)	88.4	2.6	B0/110		G0/110
BVH	(80°-90°)	8.5	0.2			G0/10
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	699.9	20.3		U4/1000	

**BUG Rating: B1-U5-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0
2.5°	299.1	298.5	297.8	297.8	299.1	299.1	299.9	300.4	301.1	303.2	306.0
5°	290.9	290.2	289.5	290.2	292.3	292.3	294.4	295.7	297.1	300.4	303.9
7.5°	279.9	279.9	279.2	282.0	284.0	283.3	286.1	287.5	290.9	294.4	299.9
10°	265.6	265.6	265.6	269.0	272.5	272.5	274.4	277.8	280.6	285.4	292.3
12.5°	253.2	252.5	252.5	255.3	259.4	260.1	263.6	268.3	271.7	277.8	285.4
15°	249.1	247.8	244.4	244.4	246.4	246.4	251.9	258.7	264.2	270.4	279.2
17.5°	249.8	247.8	238.9	236.2	236.2	236.8	242.4	249.8	256.6	264.2	275.8
20°	255.9	252.5	236.2	230.0	228.6	229.2	234.1	241.6	249.8	260.1	273.2
22.5°	282.7	277.1	246.4	232.8	226.6	226.6	229.2	237.5	247.8	261.5	277.8
25°	344.3	335.3	280.6	255.9	237.5	235.4	230.7	238.9	251.2	267.7	291.6
27.5°	407.2	398.4	323.1	296.4	267.7	261.5	243.7	245.8	259.4	281.3	312.1
30°	459.9	452.5	376.5	345.7	307.3	300.4	273.2	260.1	273.8	300.4	343.0
32.5°	464.1	460.7	433.9	402.5	355.9	346.4	310.1	289.5	296.4	326.4	376.5
35°	502.4	499.6	485.3	455.2	408.5	397.7	359.3	327.8	325.8	355.2	414.7
37.5°	540.0	536.6	527.0	506.6	463.3	454.5	424.4	373.8	359.3	388.8	452.5
40°	575.6	570.9	558.6	546.9	515.4	515.4	483.2	417.5	391.5	418.3	483.8
42.5°	641.3	626.3	593.4	584.5	575.6	575.6	528.5	447.6	417.5	450.4	514.0
45°	704.3	690.0	645.4	627.6	632.5	629.7	564.7	464.7	440.8	480.5	542.8
47.5°	754.3	741.3	696.1	683.8	697.4	686.6	594.8	478.4	470.3	512.7	566.7
50°	798.8	768.1	724.1	740.7	757.7	739.2	621.4	499.0	499.6	546.9	601.7
52.5°	737.9	734.5	744.1	782.3	798.8	778.2	645.4	525.0	531.2	590.6	641.3
55°	664.7	663.9	720.0	794.7	814.5	795.4	661.2	556.5	564.0	644.7	691.3
57.5°	650.2	643.4	681.7	768.7	804.9	791.2	669.3	586.0	595.5	713.3	740.7
60°	696.7	683.8	677.6	740.7	784.4	777.6	679.7	620.8	633.8	791.2	786.5
62.5°	798.1	780.3	736.5	742.7	782.3	776.9	704.3	661.9	677.0	869.3	812.4
65°	932.2	919.2	849.3	799.4	814.5	806.9	748.7	714.0	722.1	925.4	783.1
67.5°	1079.4	1061.5	985.6	917.2	898.0	883.7	819.3	775.5	746.0	917.2	704.3
70°	1245.7	1226.5	1160.9	1090.4	1057.6	1041.8	942.5	828.9	737.1	826.8	555.8
72.5°	1450.3	1424.4	1388.2	1395.7	1390.1	1346.3	1138.9	846.7	672.1	615.2	331.9
75°	1299.8	1270.3	1276.5	1464.8	1724.8	1722.8	1366.2	802.8	501.1	290.2	143.7
77.5°	466.1	515.4	760.4	1097.2	1446.3	1444.3	1057.6	502.4	215.0	123.9	87.0
80°	117.0	119.0	188.9	450.4	844.7	837.8	599.6	189.6	89.7	75.3	59.6
82.5°	37.7	40.3	69.1	155.4	361.4	353.1	186.2	62.3	56.1	48.6	36.3
85°	12.4	12.4	24.6	53.4	119.0	114.4	37.7	22.5	30.8	25.3	16.3
87.5°	0.0	0.0	0.7	1.3	2.8	1.3	0.0	1.3	4.1	4.9	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	3.0	4.0	4.9	8.8	12.8	6.8	4.9	4.0
100°	7.8	7.8	9.8	13.7	21.6	23.2	29.5	31.4	29.5	26.5	25.5
102.5°	27.5	27.5	31.4	37.3	44.2	45.2	49.0	50.0	49.0	47.1	48.1
105°	53.0	53.0	55.0	59.8	64.8	65.6	68.7	69.7	69.7	67.7	69.7
107.5°	76.5	75.5	78.5	82.5	86.3	87.0	89.3	91.3	90.3	89.3	90.3
110°	99.2	100.1	101.1	104.0	108.0	108.3	110.0	111.9	111.9	110.9	111.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
112.5°	121.7	121.7	123.7	126.6	129.5	130.0	131.5	133.5	133.5	132.5	134.5
115°	143.3	144.3	146.2	148.2	151.2	151.5	153.1	155.0	155.0	155.0	157.0
117.5°	165.8	166.8	168.8	170.8	173.7	174.1	175.7	176.7	177.7	176.7	178.7
120°	189.5	191.4	192.3	194.3	197.3	197.4	198.3	200.2	200.2	200.2	202.2
122.5°	215.0	216.0	216.9	218.8	221.8	222.0	222.8	223.8	223.8	224.8	228.7
125°	239.5	241.5	242.5	243.4	246.3	246.6	247.3	248.3	249.3	249.3	252.2
127.5°	262.0	264.0	265.0	267.0	269.0	269.3	270.9	272.8	271.8	272.8	275.8
130°	284.7	286.6	287.5	288.5	292.5	292.7	293.5	295.5	295.5	296.4	299.3
132.5°	307.2	308.2	311.2	312.1	315.0	315.2	316.0	319.0	319.0	320.0	322.9
135°	329.8	330.8	332.7	334.7	338.6	338.6	338.6	341.5	341.5	342.5	344.5
137.5°	352.3	353.3	356.3	357.3	360.2	360.2	360.2	362.2	362.2	363.2	367.0
140°	375.0	375.9	377.8	378.8	380.8	381.0	381.8	382.8	382.8	384.7	388.7
142.5°	396.5	398.5	400.5	399.5	402.4	402.4	402.4	404.3	404.3	405.3	408.3
145°	417.2	418.1	420.0	420.0	423.0	423.2	424.0	426.0	425.0	426.0	428.9
147.5°	435.8	435.8	438.7	439.7	443.7	443.9	444.6	445.6	443.7	444.6	447.5
150°	452.5	453.5	455.4	456.4	460.3	460.5	461.3	462.3	460.3	460.3	464.2
152.5°	470.2	471.1	474.0	473.0	476.0	476.2	477.0	478.0	477.0	477.0	480.0
155°	489.8	490.7	492.7	491.7	493.7	493.7	493.7	494.7	493.7	494.7	497.6
157.5°	503.5	505.5	507.5	506.5	509.4	509.4	509.4	509.4	507.5	508.4	513.3
160°	515.3	517.2	519.2	519.2	522.2	522.2	522.2	522.2	520.2	520.2	523.2
162.5°	525.1	526.0	529.0	528.0	531.0	531.0	531.0	532.0	530.0	528.0	530.0
165°	535.9	536.8	538.8	537.8	541.8	541.8	541.8	542.8	539.8	537.8	539.8
167.5°	544.7	545.7	548.7	547.7	550.6	550.4	549.7	549.7	547.7	548.7	552.5
170°	551.6	552.5	555.5	554.5	556.5	556.3	555.5	554.5	553.5	555.5	560.5
172.5°	554.5	555.5	558.5	556.5	558.5	558.3	557.5	558.5	556.5	557.5	560.5
175°	556.5	558.5	559.5	558.5	561.4	561.4	561.4	562.4	559.5	557.5	560.5
177.5°	561.4	562.4	564.3	563.3	567.3	567.1	566.3	566.3	563.3	563.3	566.3
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0
2.5°	308.0	307.3	310.1	312.1	312.8	314.9	316.9	318.3	317.6	316.9	316.9
5°	307.3	308.0	312.8	316.9	320.3	323.7	326.4	327.8	327.2	327.2	327.2
7.5°	303.2	306.0	311.4	318.3	323.1	325.2	325.8	323.7	322.4	320.3	320.3
10°	296.4	300.4	309.4	316.9	319.0	316.2	312.1	308.0	302.5	299.1	299.1
12.5°	290.9	295.7	306.6	312.8	310.1	303.2	294.4	287.5	282.0	277.8	277.1
15°	286.1	292.3	303.9	305.2	299.1	287.5	275.8	268.3	262.1	259.4	259.4
17.5°	282.7	290.9	301.1	297.1	284.8	269.7	258.7	252.5	247.8	245.1	244.4
20°	283.3	293.7	298.5	286.8	269.0	253.2	243.0	239.6	236.2	234.7	234.7
22.5°	290.9	300.4	297.8	277.8	254.6	236.8	230.0	229.2	227.9	226.6	225.8
25°	307.3	314.1	299.9	269.0	239.6	221.8	218.4	220.4	219.7	218.4	218.4
27.5°	329.9	331.3	303.2	260.1	223.0	207.4	207.4	210.8	209.5	207.4	208.8
30°	357.3	349.8	304.5	245.8	203.9	193.8	195.8	197.8	196.4	193.8	193.8
32.5°	386.7	368.9	304.5	227.2	185.5	181.4	182.1	182.7	180.0	176.6	176.6
35°	415.5	387.3	301.1	205.4	171.0	169.2	168.4	171.0	169.2	164.3	164.3
37.5°	442.9	401.8	292.3	182.7	160.2	159.4	161.5	160.2	157.5	150.6	149.2
40°	462.0	411.3	274.4	164.3	151.3	155.4	154.0	146.4	142.4	137.6	137.6
42.5°	479.2	416.2	252.5	149.8	145.1	150.6	145.1	135.6	130.1	129.4	130.1
45°	494.9	420.2	231.3	138.2	137.6	145.1	138.2	128.0	121.8	121.8	122.5
47.5°	509.9	424.4	210.1	127.3	128.6	136.9	132.8	122.5	116.4	112.3	112.3
50°	534.0	433.9	179.3	115.7	118.4	130.1	128.6	117.0	110.2	104.0	102.7
52.5°	562.6	450.4	145.7	103.3	110.9	123.9	123.9	112.3	104.7	96.5	95.1
55°	601.0	468.2	117.0	94.4	103.3	117.0	119.0	110.2	99.3	91.6	90.4
57.5°	639.3	474.3	94.4	85.6	93.7	110.2	115.7	106.1	93.1	87.7	87.0
60°	665.9	454.5	79.4	78.1	87.0	102.0	110.9	101.3	89.0	83.5	83.5
62.5°	661.9	394.3	71.1	73.2	81.5	95.8	106.8	97.2	86.2	82.8	82.1
65°	603.8	297.8	64.4	69.1	76.6	89.7	102.7	95.1	84.9	81.5	80.1
67.5°	508.6	197.8	59.6	65.0	71.9	84.9	99.3	92.3	80.8	78.7	77.3
70°	368.2	115.7	54.8	60.9	67.0	79.4	94.4	87.0	76.0	74.6	71.1
72.5°	199.2	72.5	49.2	55.4	60.9	72.5	87.0	80.1	69.8	64.4	62.3
75°	91.1	52.7	43.7	49.2	53.4	63.7	78.1	70.4	62.3	55.4	54.1
77.5°	60.9	39.6	37.0	42.4	44.5	53.4	69.1	56.1	48.6	43.7	42.4
80°	41.7	29.5	30.1	34.9	34.2	42.4	52.0	45.2	38.4	39.6	36.3
82.5°	26.7	20.5	23.3	24.6	24.0	32.2	40.3	34.2	28.7	24.0	20.5
85°	11.7	11.0	13.7	14.4	14.4	17.8	21.2	17.1	13.0	9.6	9.6
87.5°	0.7	1.3	1.3	2.1	1.3	0.7	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
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.0	4.0	4.9	6.8	12.8	8.8	4.0	3.0	2.0	2.0	2.0
100°	24.5	25.5	26.5	29.5	31.4	29.5	21.6	13.7	9.8	7.8	7.8
102.5°	47.1	48.1	47.1	49.0	50.0	49.0	44.2	37.3	31.4	27.5	27.5
105°	67.7	69.7	67.7	69.7	69.7	68.7	64.8	59.8	55.0	53.0	53.0
107.5°	89.3	90.3	89.3	90.3	91.3	89.3	86.3	82.5	78.5	75.5	76.5
110°	110.9	111.9	110.9	111.9	111.9	110.0	108.0	104.0	101.1	100.1	99.2



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	132.5	134.5	132.5	133.5	133.5	131.5	129.5	126.6	123.7	121.7	121.7
115°	156.0	157.0	155.0	155.0	155.0	153.1	151.2	148.2	146.2	144.3	143.3
117.5°	176.7	178.7	176.7	177.7	176.7	175.7	173.7	170.8	168.8	166.8	165.8
120°	200.2	202.2	200.2	200.2	200.2	198.3	197.3	194.3	192.3	191.4	189.5
122.5°	227.7	228.7	224.8	223.8	223.8	222.8	221.8	218.8	216.9	216.0	215.0
125°	251.3	252.2	249.3	249.3	248.3	247.3	246.3	243.4	242.5	241.5	239.5
127.5°	272.8	275.8	272.8	271.8	272.8	270.9	269.0	267.0	265.0	264.0	262.0
130°	297.4	299.3	296.4	295.5	295.5	293.5	292.5	288.5	287.5	286.6	284.7
132.5°	321.0	322.9	320.0	319.0	319.0	316.0	315.0	312.1	311.2	308.2	307.2
135°	343.5	344.5	342.5	341.5	341.5	338.6	338.6	334.7	332.7	330.8	329.8
137.5°	365.1	367.0	363.2	362.2	362.2	360.2	360.2	357.3	356.3	353.3	352.3
140°	386.7	388.7	384.7	382.8	382.8	381.8	380.8	378.8	377.8	375.9	375.0
142.5°	407.3	408.3	405.3	404.3	404.3	402.4	402.4	399.5	400.5	398.5	396.5
145°	427.0	428.9	426.0	425.0	426.0	424.0	423.0	420.0	420.0	418.1	417.2
147.5°	444.6	447.5	444.6	443.7	445.6	444.6	443.7	439.7	438.7	435.8	435.8
150°	461.3	464.2	460.3	460.3	462.3	461.3	460.3	456.4	455.4	453.5	452.5
152.5°	477.0	480.0	477.0	477.0	478.0	477.0	476.0	473.0	474.0	471.1	470.2
155°	495.7	497.6	494.7	493.7	494.7	493.7	493.7	491.7	492.7	490.7	489.8
157.5°	510.3	513.3	508.4	507.5	509.4	509.4	509.4	506.5	507.5	505.5	503.5
160°	521.2	523.2	520.2	520.2	522.2	522.2	522.2	519.2	519.2	517.2	515.3
162.5°	527.0	530.0	528.0	530.0	532.0	531.0	531.0	528.0	529.0	526.0	525.1
165°	537.8	539.8	537.8	539.8	542.8	541.8	541.8	537.8	538.8	536.8	535.9
167.5°	550.6	552.5	548.7	547.7	549.7	549.7	550.6	547.7	548.7	545.7	544.7
170°	558.5	560.5	555.5	553.5	554.5	555.5	556.5	554.5	555.5	552.5	551.6
172.5°	557.5	560.5	557.5	556.5	558.5	557.5	558.5	556.5	558.5	555.5	554.5
175°	557.5	560.5	557.5	559.5	562.4	561.4	561.4	558.5	559.5	558.5	556.5
177.5°	563.3	566.3	563.3	563.3	566.3	566.3	567.3	563.3	564.3	562.4	561.4
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3

(END OF REPORT)