

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: P227693

Luminaire Tested: **ISS-AF-XXX-LED-E1-T3-7050-XXB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227693  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29759)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISS-AF-XXX-LED-E1-T3-7050-XXB  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE, EMERGENCY MODE WITH BATTERY BACKPACK BOX LIGHT SQUARE WITH ACCULED OPTICS-TYPE III  
Light Source: (16) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 634 lumens  
Efficiency: N/A  
Efficacy: 48.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Semi-Cutoff  
BUG Rating: B0 - U0 - G0

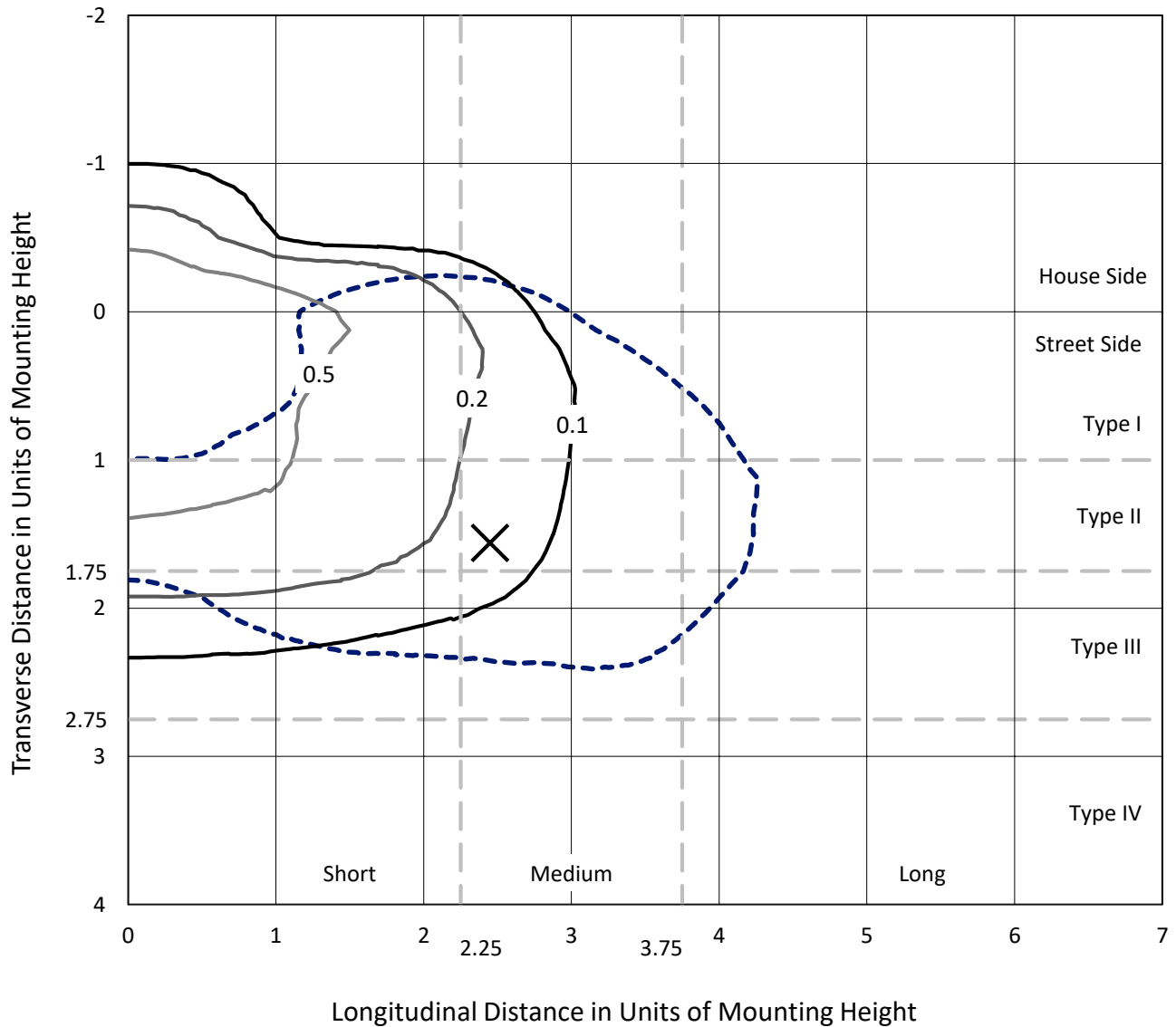
Input Watts (W): 13  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

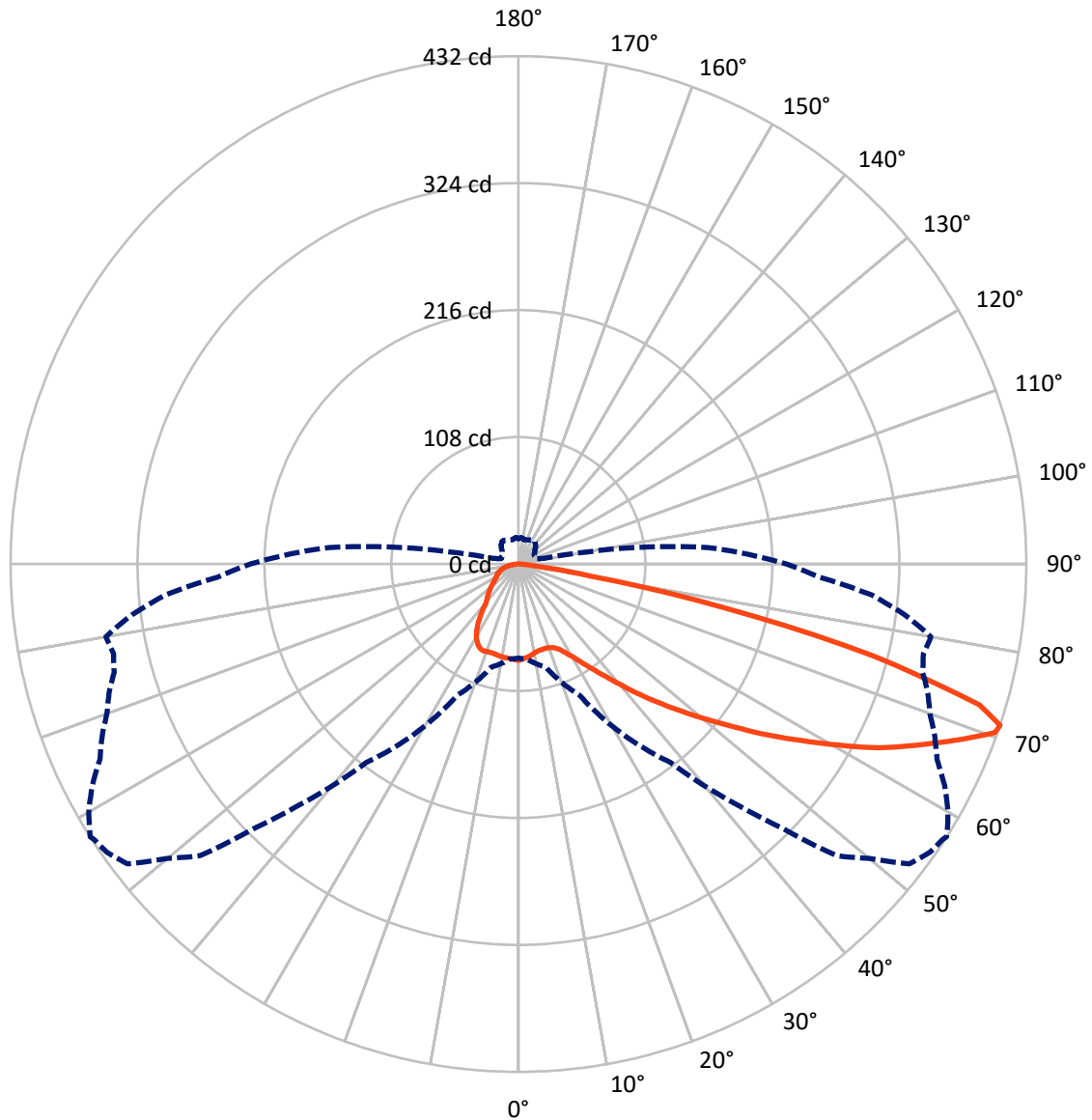
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.8 fc  
 Type III - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	138.0	0.0	138.0
	% Fixture	21.8	0.0	21.8
<b>Street Side</b>	Lumens	496.0	0.0	496.0
	% Fixture	78.2	0.0	78.2
<b>Total</b>	Lumens	634.0	0.0	634.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.7	1.2
10°-20°	22.2	3.5
20°-30°	36.9	5.8
30°-40°	58.7	9.3
40°-50°	95.4	15.0
50°-60°	143.0	22.6
60°-70°	170.6	26.9
70°-80°	92.1	14.5
80°-90°	7.5	1.2
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°	634.0	100.0
0°-180°	634.0	100.0



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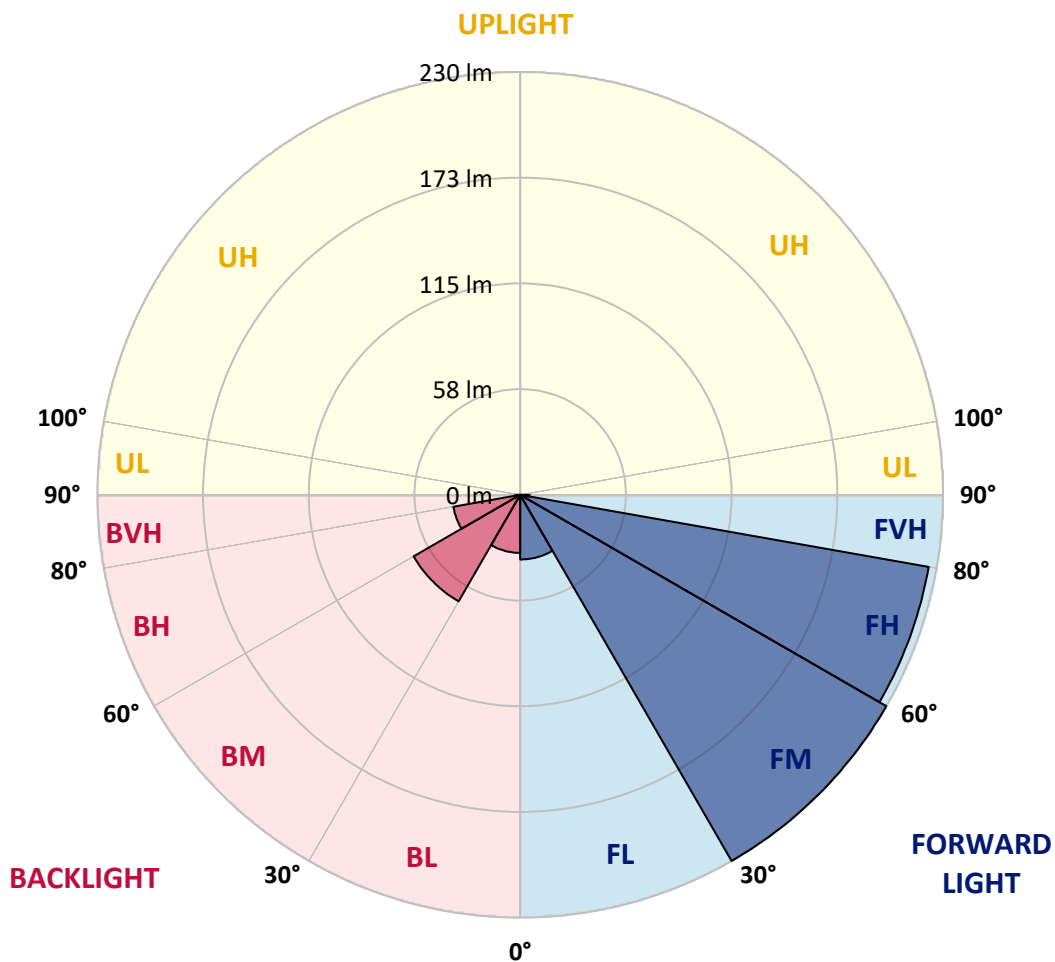
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	35.2	5.5			
FM	(30°-60°)	230.1	36.3			
FH	(60°-80°)	225.8	35.6			G0/660
FVH	(80°-90°)	4.9	0.8			G0/10
BL	(0°-30°)	31.6	5.0	B0/110		
BM	(30°-60°)	66.9	10.6	B0/220		
BH	(60°-80°)	36.9	5.8	B0/110		G0/110
BVH	(80°-90°)	2.6	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G0**

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°	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
2.5°	81.9	81.7	81.5	81.5	81.5	81.3	80.6	80.9	81.5	81.1	81.7
5°	81.7	81.3	81.1	81.1	81.1	80.4	80.2	80.0	81.3	80.2	81.1
7.5°	79.4	79.4	79.0	79.4	79.8	79.2	78.8	79.0	80.0	79.0	80.0
10°	77.7	77.3	77.1	77.1	77.5	76.7	76.2	76.7	77.9	76.7	78.1
12.5°	77.1	77.3	76.7	76.7	76.5	75.4	75.4	75.4	76.5	75.4	76.7
15°	78.1	77.9	77.3	76.9	76.2	75.4	75.2	75.4	76.2	75.0	76.5
17.5°	79.6	79.6	78.6	77.5	76.9	76.0	76.0	75.6	76.2	75.4	76.5
20°	83.4	82.7	81.3	79.6	77.9	77.5	76.7	76.7	77.1	76.2	76.9
22.5°	89.9	89.2	86.7	83.6	80.9	79.8	79.4	79.2	78.8	78.3	78.3
25°	98.5	97.4	94.5	90.7	86.1	85.3	84.4	83.8	82.3	82.3	81.3
27.5°	107.7	106.6	103.5	99.3	93.6	92.4	91.3	90.5	88.0	88.0	86.1
30°	118.1	116.9	113.1	108.5	102.0	101.6	100.1	98.9	95.5	95.3	92.8
32.5°	130.3	128.6	124.8	118.8	111.9	112.1	109.8	108.9	104.5	104.7	101.4
35°	144.1	142.2	138.5	130.5	123.4	124.0	121.9	120.4	115.0	115.0	111.4
37.5°	158.8	158.8	154.0	144.7	136.2	137.6	135.1	133.6	128.2	129.0	123.4
40°	175.1	176.2	170.9	160.5	151.7	152.3	150.4	148.7	142.2	143.7	137.6
42.5°	192.3	194.2	189.6	178.7	168.8	170.9	167.8	166.1	159.2	162.3	155.2
45°	217.2	217.6	209.1	198.6	190.4	192.3	187.9	187.3	178.7	182.0	174.9
47.5°	232.9	231.9	225.6	219.3	214.5	218.3	214.3	213.2	203.4	205.7	195.6
50°	243.6	244.2	239.4	238.8	239.6	246.8	246.1	244.0	232.3	230.6	218.1
52.5°	253.3	250.5	249.7	255.6	264.6	272.9	276.3	273.6	260.8	256.2	244.0
55°	251.6	247.6	252.0	266.2	284.0	297.0	297.4	295.6	284.0	282.2	269.0
57.5°	240.3	241.1	250.1	270.4	300.6	314.0	316.3	314.0	304.6	306.2	295.4
60°	224.6	226.2	240.5	266.7	313.8	325.3	326.4	329.1	322.8	327.2	319.7
62.5°	201.1	203.4	221.6	257.2	304.6	321.7	331.4	337.7	336.4	346.5	342.5
65°	184.8	184.8	202.6	246.3	295.6	318.2	332.6	344.4	346.0	362.0	360.5
67.5°	154.4	155.4	170.7	216.0	284.7	310.2	332.0	351.9	362.0	387.1	388.4
70°	106.8	107.7	117.7	154.2	230.0	251.8	283.8	316.3	346.5	384.4	404.1
71°	80.0	81.1	90.9	123.0	194.8	212.8	246.1	279.9	317.8	367.0	389.2
72.5°	39.2	39.8	49.4	79.0	135.5	158.6	177.8	210.1	250.3	306.7	338.1
75°	18.2	18.4	20.5	28.5	51.7	61.6	70.2	90.9	115.8	165.3	203.4
77.5°	13.4	13.4	14.7	18.6	26.8	27.2	26.8	27.4	33.1	47.3	71.2
80°	9.8	9.8	10.7	12.6	17.8	17.8	17.2	17.4	16.8	17.4	19.7
82.5°	6.5	6.5	6.9	7.5	10.9	10.9	10.5	10.5	10.1	9.8	10.7
85°	3.8	4.0	4.2	3.6	4.6	4.4	4.0	4.4	4.2	3.8	4.6
87.5°	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.2
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°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
2.5°	80.9	81.5	81.5	80.6	81.3	80.6	81.1	80.4	81.1	80.0	81.3
5°	80.2	80.9	80.9	79.6	80.9	79.6	80.6	79.2	80.6	79.0	80.6
7.5°	78.6	80.0	80.0	78.3	79.8	78.6	79.8	78.3	79.6	77.7	79.8
10°	76.7	78.1	78.3	76.7	78.3	76.9	78.8	76.9	78.8	76.7	79.0
12.5°	75.4	77.1	77.5	75.6	77.7	75.8	78.1	76.0	78.1	75.8	78.6
15°	75.2	76.7	77.1	75.4	77.3	75.2	77.9	75.4	78.1	75.6	78.8
17.5°	75.4	76.7	77.1	75.2	77.1	75.4	77.7	75.6	78.1	75.8	78.8
20°	76.0	76.9	76.9	75.8	77.3	75.8	77.7	75.6	78.3	76.2	79.0
22.5°	77.9	78.1	78.1	77.3	78.1	77.1	78.6	77.1	79.0	77.3	79.8
25°	81.1	80.9	80.4	80.2	80.4	79.8	80.6	79.6	81.5	80.0	82.5
27.5°	86.5	85.7	85.3	85.3	85.0	85.3	85.3	84.8	85.7	85.3	86.9
30°	93.2	91.7	91.1	91.7	90.9	91.7	91.5	91.3	92.2	91.7	93.2
32.5°	102.0	99.5	99.1	100.3	98.7	100.1	98.9	99.5	100.1	100.5	101.4
35°	112.3	109.3	108.9	110.2	108.3	110.4	108.9	109.8	110.2	111.2	111.9
37.5°	124.4	120.9	120.2	121.9	119.4	121.7	119.6	122.1	121.5	123.0	123.6
40°	139.1	134.9	133.4	135.7	132.8	134.7	132.6	135.3	134.7	137.6	138.3
42.5°	157.1	151.0	149.6	151.9	147.5	148.1	146.4	149.6	149.1	153.1	153.8
45°	175.7	168.4	166.3	168.6	163.6	164.9	162.3	165.7	165.5	168.6	171.1
47.5°	196.5	187.5	184.8	187.3	181.2	182.7	180.1	183.7	183.9	187.5	190.0
50°	218.1	208.6	205.1	207.4	201.7	202.8	200.3	204.7	204.4	209.3	211.1
52.5°	241.5	231.9	229.2	230.2	223.5	224.8	222.7	228.1	226.9	229.8	233.6
55°	267.5	256.4	253.3	256.4	248.4	250.1	247.4	252.4	250.3	254.1	255.1
57.5°	294.1	283.2	280.7	283.0	275.5	276.7	273.2	277.3	275.7	278.2	279.9
60°	322.4	312.5	310.0	312.5	305.2	305.4	299.3	303.7	301.2	304.4	303.7
62.5°	349.4	341.0	340.4	344.0	334.7	333.7	326.4	329.5	325.9	328.0	325.5
65°	372.4	367.6	368.5	371.4	363.2	360.7	352.3	354.0	348.8	348.8	345.6
67.5°	402.6	397.4	397.4	399.9	389.6	383.1	371.6	370.1	361.5	359.9	352.5
70°	427.7	429.2	427.5	429.6	417.5	404.3	389.0	381.7	370.3	364.9	356.3
71°	418.7	427.1	430.0	431.7	421.7	408.5	392.5	383.1	372.2	364.9	355.7
72.5°	377.9	398.2	409.7	409.7	411.0	402.6	387.3	377.0	364.7	355.1	346.5
75°	264.8	297.9	312.7	311.1	322.0	325.7	327.0	322.6	315.7	301.8	295.8
77.5°	117.9	155.4	177.8	178.1	189.8	200.0	208.2	216.8	213.7	207.0	206.5
80°	26.8	48.6	62.2	62.8	73.5	83.0	88.6	97.2	98.2	88.6	83.2
82.5°	11.5	13.6	15.5	15.3	18.9	22.6	26.8	29.1	28.1	23.3	22.0
85°	4.8	6.3	6.7	6.3	7.8	8.6	10.1	10.3	11.9	10.7	11.3
87.5°	0.0	0.2	0.2	0.0	0.4	0.0	0.4	0.2	1.0	0.4	1.3
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°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
2.5°	80.4	81.5	80.4	81.5	80.9	81.5	81.3	81.5	80.4	81.5	80.2
5°	79.0	80.6	79.2	80.4	79.2	80.6	80.6	80.6	79.2	80.9	79.4
7.5°	77.7	79.6	77.7	79.6	78.3	79.8	79.8	80.4	78.8	80.6	78.6
10°	76.5	78.8	76.5	79.2	77.1	79.4	79.6	80.0	77.7	80.2	78.1
12.5°	75.8	78.8	76.0	78.8	76.2	79.4	79.6	80.0	77.5	80.6	77.9
15°	75.8	79.0	76.0	79.0	76.2	79.4	79.8	80.2	77.5	80.9	77.9
17.5°	75.8	79.0	76.5	79.2	76.7	79.6	80.0	80.4	77.9	80.9	78.3
20°	76.5	79.4	76.9	79.8	77.3	80.2	80.4	81.1	78.3	81.1	78.8
22.5°	77.9	80.4	78.3	81.1	79.2	81.5	81.7	82.3	80.2	82.5	80.6
25°	80.4	83.2	81.5	83.6	82.5	84.4	84.8	84.8	84.0	85.5	84.8
27.5°	85.7	87.8	86.5	88.4	87.8	89.2	89.2	89.4	90.1	90.5	91.1
30°	92.4	93.8	93.4	94.5	94.7	95.5	95.5	96.8	99.3	96.8	96.6
32.5°	101.4	102.2	102.4	102.9	103.7	104.3	105.2	106.6	108.7	102.9	101.0
35°	112.5	112.7	113.3	114.0	115.4	115.8	118.6	117.5	117.5	108.3	104.3
37.5°	124.6	124.6	126.3	126.3	129.9	130.1	132.8	127.4	124.2	112.3	106.4
40°	139.9	139.7	141.6	142.0	146.8	147.0	146.6	134.7	128.0	113.3	105.4
42.5°	156.1	156.7	159.2	160.0	163.6	164.9	159.6	139.7	129.7	112.7	101.8
45°	173.7	174.9	178.1	180.4	184.1	182.7	170.1	142.0	127.8	108.9	94.9
47.5°	192.9	194.2	196.7	201.1	202.8	201.1	178.7	142.9	124.8	103.1	84.8
50°	212.4	214.5	218.1	224.3	225.2	221.0	189.2	146.0	122.5	97.0	73.3
52.5°	234.4	236.5	240.7	251.2	249.1	240.5	201.5	151.9	123.2	93.2	63.5
55°	257.6	260.6	268.8	279.0	274.4	261.0	215.1	160.5	125.7	89.2	52.6
57.5°	282.2	285.3	296.0	308.1	299.1	281.1	229.0	167.2	126.9	81.1	40.6
60°	306.5	310.9	324.7	334.7	320.7	298.3	241.3	171.6	123.6	65.6	31.4
62.5°	328.7	335.8	351.3	356.7	334.3	309.2	248.0	168.4	110.0	45.2	25.3
65°	344.4	353.6	363.6	363.0	331.8	305.6	243.0	154.0	81.9	30.0	21.6
67.5°	351.1	359.7	362.0	351.3	313.8	289.9	225.0	124.0	47.1	22.4	18.9
70°	353.6	360.9	347.9	322.2	278.6	251.4	183.9	79.0	25.8	18.2	16.3
71°	352.5	356.1	331.4	301.2	256.2	227.7	161.3	60.1	22.0	17.0	15.5
72.5°	338.3	333.3	295.1	261.6	217.2	188.3	125.5	37.9	18.0	15.3	14.5
75°	276.5	253.9	217.2	185.6	147.9	118.4	68.1	19.5	14.5	13.2	12.6
77.5°	180.8	161.1	130.9	106.4	80.9	61.4	27.9	13.4	11.5	11.1	10.9
80°	64.5	51.7	39.2	34.4	26.0	21.4	13.6	10.3	9.0	9.2	9.0
82.5°	18.2	16.8	14.5	13.4	11.7	11.5	8.8	7.8	7.1	7.5	7.3
85°	9.0	7.8	5.7	5.4	4.2	4.8	4.4	5.2	4.6	4.8	4.4
87.5°	0.6	0.8	0.2	0.6	0.0	0.6	0.8	1.0	0.2	0.8	0.6
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):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°
0°	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
2.5°	81.7	80.9	81.9	80.9	81.9	81.3	81.9	81.3	81.9	82.3	82.3
5°	81.3	79.8	81.7	80.6	81.9	80.9	81.7	81.1	82.1	82.5	83.0
7.5°	81.1	79.6	81.5	80.0	81.9	80.4	81.7	80.9	82.1	82.5	83.4
10°	80.9	79.0	81.5	79.4	81.7	80.2	81.7	80.4	81.9	82.3	82.5
12.5°	80.9	78.8	81.5	79.2	81.7	79.6	81.5	79.6	81.7	81.5	80.9
15°	81.1	78.3	81.5	78.8	81.5	79.0	81.3	78.8	80.9	80.2	79.8
17.5°	81.1	78.3	81.3	78.6	81.1	78.8	80.6	78.3	80.2	80.0	79.4
20°	81.5	78.8	81.3	79.4	81.3	79.0	80.4	78.3	79.8	78.6	76.0
22.5°	82.7	80.9	82.7	80.9	81.7	79.6	80.2	77.7	77.5	75.4	71.4
25°	85.7	84.8	84.4	82.1	81.5	78.8	77.9	75.0	73.9	70.8	65.4
27.5°	89.4	87.6	85.0	82.3	79.6	76.2	73.9	71.6	69.3	65.4	58.4
30°	92.0	89.2	84.0	80.2	75.2	72.5	68.5	66.0	62.6	57.6	50.9
32.5°	93.6	89.4	81.5	77.1	70.4	66.8	61.6	58.9	54.0	49.2	44.4
35°	94.1	88.6	78.1	73.3	64.5	60.5	53.6	50.7	46.1	42.7	40.8
37.5°	92.4	85.7	72.9	66.6	57.0	52.4	45.9	43.8	41.1	39.8	39.0
40°	89.0	80.0	64.7	57.4	47.5	44.0	40.6	40.6	39.2	38.5	37.1
42.5°	83.0	71.6	54.3	47.1	40.4	39.8	37.9	38.8	37.7	37.3	35.2
45°	73.5	59.7	43.8	39.6	36.4	36.9	35.6	36.4	35.8	35.6	33.1
47.5°	61.4	47.5	36.9	35.4	33.3	33.9	32.9	33.9	33.3	33.5	31.6
50°	49.0	38.5	32.7	31.8	30.4	30.8	30.2	31.2	31.0	31.8	30.8
52.5°	39.2	32.9	29.1	28.5	27.7	27.9	27.7	28.7	28.9	30.6	30.6
55°	32.5	28.3	26.2	26.0	25.1	25.3	25.6	26.6	27.4	29.5	30.6
57.5°	27.9	25.3	23.9	23.7	23.3	23.5	23.9	25.1	26.0	28.7	31.0
60°	24.5	23.0	22.0	22.0	21.6	22.0	22.4	23.7	24.7	27.9	30.2
62.5°	22.0	20.9	20.3	20.5	20.3	20.7	21.2	22.4	23.7	26.6	28.9
65°	19.7	19.1	18.6	18.9	18.9	19.5	19.9	21.2	22.2	24.9	27.9
67.5°	17.8	17.4	17.2	17.4	17.6	18.2	18.9	19.7	20.5	23.0	26.4
70°	16.3	15.9	15.9	15.9	16.1	16.8	17.6	18.0	18.9	21.6	24.7
71°	15.5	15.3	15.3	15.3	15.5	16.1	17.0	17.4	18.2	20.9	23.9
72.5°	14.5	14.5	14.7	14.5	14.9	15.1	15.9	16.3	17.4	20.1	22.8
75°	12.8	12.8	13.0	13.0	13.4	13.4	14.0	14.5	15.7	18.0	20.5
77.5°	11.3	11.3	11.7	11.5	11.5	11.1	11.9	12.4	13.4	15.7	18.2
80°	9.6	9.4	9.8	9.2	9.0	8.6	9.2	9.8	11.5	13.0	13.4
82.5°	7.5	6.9	7.1	6.5	6.5	6.1	6.7	6.9	8.0	9.4	10.3
85°	4.6	3.8	4.2	3.6	4.0	3.6	3.8	4.0	4.8	5.9	5.7
87.5°	1.0	0.6	0.8	0.2	0.6	0.0	0.6	0.2	0.6	0.2	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):**

	155°	165°	175°	180°
0°	81.9	81.9	81.9	81.9
2.5°	82.7	82.5	82.7	82.5
5°	83.8	83.8	84.0	84.2
7.5°	84.0	84.4	84.8	84.6
10°	82.5	82.1	82.5	82.1
12.5°	80.2	79.8	80.2	80.2
15°	80.0	79.8	80.0	80.0
17.5°	78.6	77.5	77.1	76.9
20°	74.4	72.5	72.1	71.4
22.5°	68.5	65.8	64.9	64.3
25°	61.4	57.6	56.1	55.3
27.5°	53.6	49.9	48.4	48.4
30°	47.5	44.6	43.2	43.2
32.5°	43.2	41.5	40.4	40.6
35°	39.6	38.5	37.9	38.1
37.5°	37.3	35.6	34.1	34.1
40°	35.0	32.9	31.0	31.0
42.5°	32.9	30.8	29.5	29.3
45°	30.8	29.3	28.3	28.1
47.5°	29.7	28.5	27.4	27.2
50°	29.3	28.1	26.6	26.6
52.5°	29.7	28.7	26.0	26.0
55°	30.6	30.0	26.0	25.6
57.5°	29.7	28.7	26.2	25.6
60°	27.9	26.2	25.8	25.3
62.5°	26.6	24.9	25.8	25.6
65°	25.6	24.3	26.2	25.8
67.5°	24.5	23.3	26.2	25.3
70°	23.3	22.0	23.9	22.4
71°	22.6	21.2	22.6	21.4
72.5°	21.6	19.9	20.3	19.5
75°	19.5	17.8	17.4	17.2
77.5°	16.1	14.2	13.6	13.4
80°	12.4	11.1	11.1	10.5
82.5°	9.2	8.2	8.0	6.9
85°	4.8	3.8	3.1	3.1
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)