

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: P228081

Luminaire Tested: **ISS-AF-XXX-LED-E1-SL2-8030-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29761)
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-SL2-8030-XXB
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE, EMERGENCY MODE WITH BATTERY BACKPACK BOX LIGHT SQUARE WITH ACCUCLED OPTICS-TYPE II W/SPILL CONTROL
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 490 lumens
Efficiency: N/A
Efficacy: 37.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B0 - U0 - G1

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

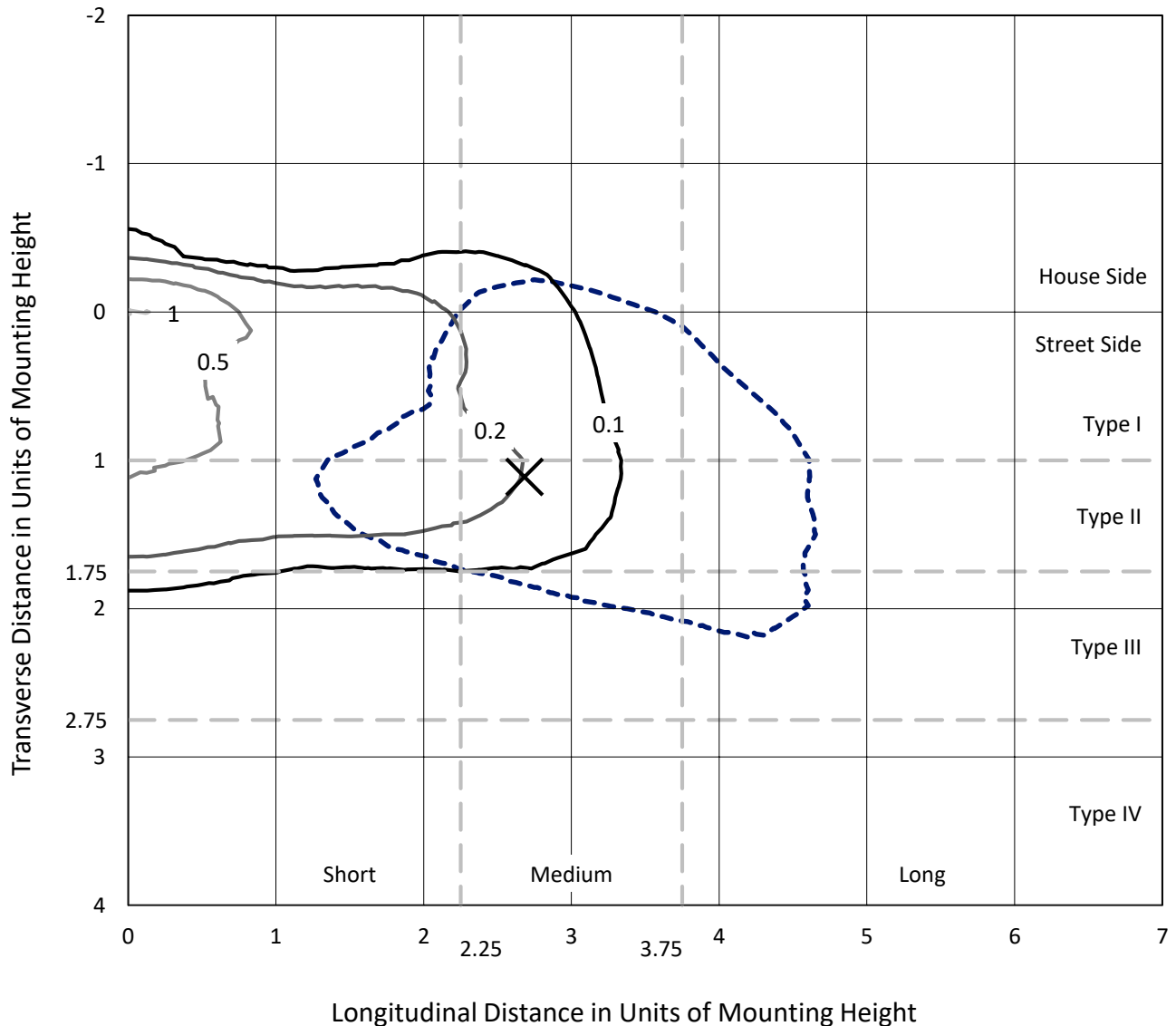


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

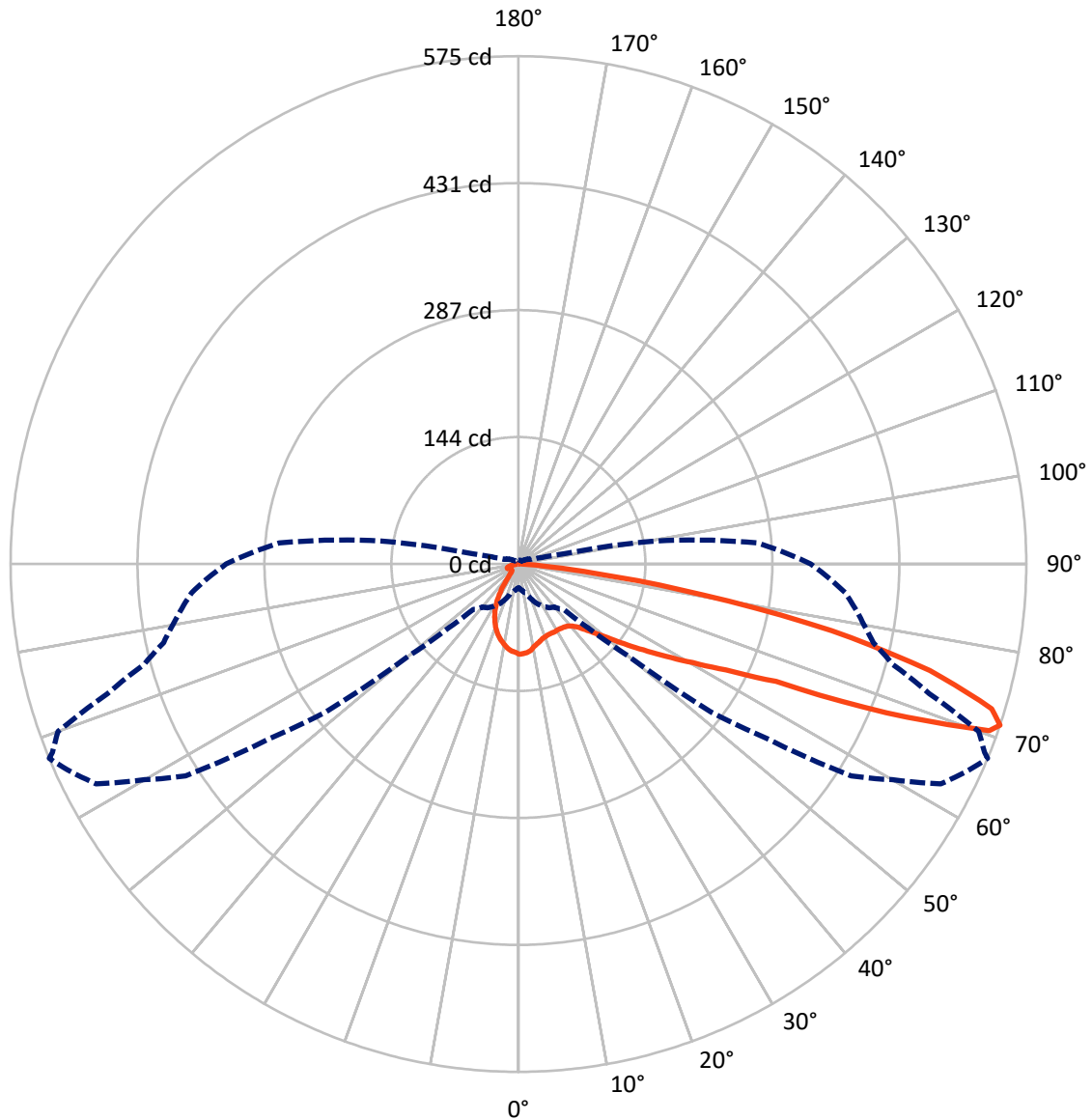


Based on 10 foot mounting height. Maximum calculated value = 1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	82.6	0.0	82.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	407.4	0.0	407.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	490.0	0.0	490.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.9	1.8
10°-20°	21.3	4.4
20°-30°	29.0	5.9
30°-40°	39.6	8.1
40°-50°	59.7	12.2
50°-60°	94.6	19.3
60°-70°	125.2	25.6
70°-80°	99.8	20.4
80°-90°	11.8	2.4
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°	490.0	100.0
0°-180°	490.0	100.0



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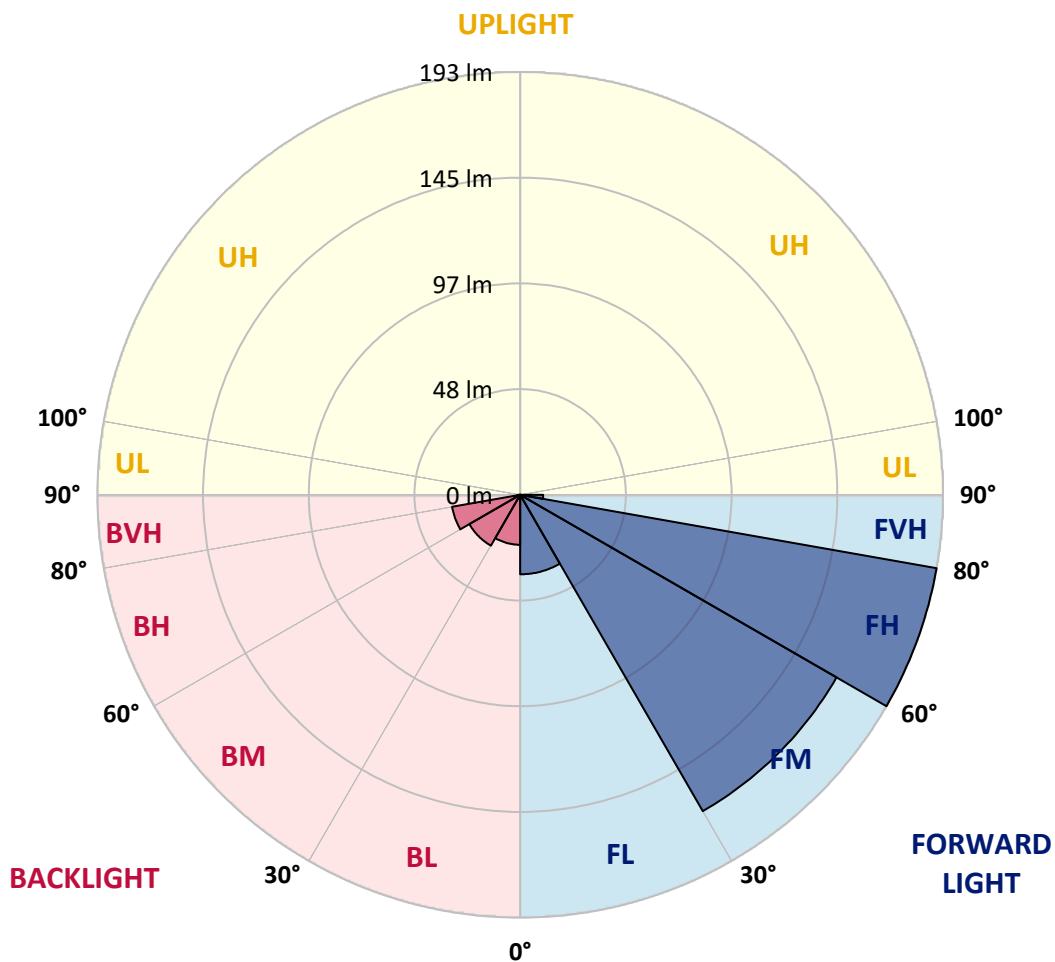
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	36.4	7.4			
FM (30°-60°)	167.1	34.1			
FH (60°-80°)	193.4	39.5			G0/660
FVH (80°-90°)	10.6	2.2			G1/100
BL (0°-30°)	22.9	4.7	B0/110		
BM (30°-60°)	26.8	5.5	B0/220		
BH (60°-80°)	31.6	6.4	B0/110		G0/110
BVH (80°-90°)	1.3	0.3			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°	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1
2.5°	100.2	99.9	99.9	100.4	101.3	100.6	101.1	101.1	101.3	101.8	101.9
5°	92.9	92.2	92.9	93.6	95.4	95.1	95.6	96.1	97.2	97.3	98.7
7.5°	86.2	85.9	86.4	87.7	90.1	89.5	90.1	90.8	92.0	92.5	93.9
10°	81.1	80.6	81.2	82.3	84.7	84.5	84.8	85.7	87.1	87.4	89.1
12.5°	77.3	77.3	77.7	79.0	81.1	80.9	81.9	82.4	83.6	84.0	85.9
15°	75.4	74.9	75.6	76.8	78.8	78.8	79.5	80.0	81.8	81.9	83.6
17.5°	73.7	73.9	74.1	75.4	77.3	77.0	77.8	78.2	80.0	79.7	81.8
20°	73.7	74.1	73.9	74.7	76.1	75.4	76.5	76.6	78.7	78.2	80.4
22.5°	75.8	76.1	75.6	75.4	75.9	75.4	75.9	76.3	77.8	77.5	79.5
25°	79.4	80.0	79.4	78.2	77.7	76.3	76.6	77.1	78.3	77.5	79.4
27.5°	85.0	85.5	84.3	83.1	80.7	79.2	78.7	78.5	79.9	78.5	80.0
30°	91.5	92.2	91.2	88.9	85.5	83.0	81.9	81.4	82.3	80.2	81.8
32.5°	98.5	99.2	98.5	96.8	92.2	88.4	87.1	85.9	86.5	83.8	84.5
35°	105.7	106.4	107.1	106.0	100.1	95.8	93.6	92.5	92.4	88.9	89.1
37.5°	112.0	112.7	114.9	116.0	110.5	104.7	102.6	100.4	100.6	95.8	95.8
40°	119.7	120.6	123.5	125.9	122.3	115.3	112.9	110.5	110.5	104.2	104.3
42.5°	130.2	131.2	133.1	136.3	135.1	127.9	125.4	122.1	122.5	114.9	114.8
45°	144.9	145.6	145.6	147.6	147.8	140.9	139.2	136.0	136.7	127.1	127.6
47.5°	164.0	163.2	159.8	160.9	162.3	155.1	153.6	151.5	152.4	142.1	143.2
50°	181.8	181.1	174.1	174.5	179.4	172.1	171.6	169.0	170.2	159.9	161.5
52.5°	188.5	187.3	180.3	184.0	197.9	193.8	194.6	193.4	194.1	183.2	182.8
55°	181.0	181.0	176.7	183.5	211.7	214.0	221.0	223.7	226.6	215.7	213.3
57.5°	160.1	161.5	162.1	174.3	209.5	219.1	232.4	244.1	259.0	258.3	261.9
60°	125.5	127.9	131.9	151.7	199.9	215.7	233.0	250.4	270.9	284.1	303.6
62.5°	88.1	90.1	93.4	107.1	172.1	199.1	224.1	250.9	277.1	297.8	323.4
65°	59.9	61.9	68.8	76.3	103.8	143.2	181.3	225.8	265.6	304.1	338.7
67.5°	43.1	44.3	49.6	62.3	69.1	76.3	90.5	142.8	191.9	269.4	319.8
70°	32.3	33.5	38.3	52.3	60.7	62.6	66.0	75.3	87.7	151.4	217.6
71°	27.0	28.7	34.5	49.3	60.4	61.9	63.5	68.9	73.0	107.1	161.5
72.5°	19.0	20.2	25.7	45.5	58.0	61.6	65.2	65.0	64.7	73.0	97.7
75°	12.1	12.1	12.1	25.7	61.9	59.7	61.1	68.4	64.7	61.4	64.3
77.5°	9.6	9.4	8.9	12.8	48.4	60.5	64.1	66.0	69.6	64.1	61.2
80°	7.2	7.0	7.0	8.0	22.4	39.2	54.2	60.2	62.8	68.2	62.3
82.5°	3.8	3.8	4.1	4.8	8.4	13.7	28.1	46.2	51.7	52.0	52.5
85°	1.2	1.0	1.4	2.2	3.6	4.4	7.9	18.6	27.7	33.5	35.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.7	1.2	1.5
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°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
0°	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1
2.5°	101.4	102.1	101.6	102.3	101.4	102.5	101.6	102.1	102.3	101.6	102.5
5°	97.8	99.9	99.2	100.7	100.1	101.4	100.7	102.1	102.1	101.6	102.8
7.5°	93.4	95.4	95.6	97.2	97.2	98.9	98.9	100.2	100.9	100.9	102.6
10°	88.9	90.8	91.2	92.9	93.2	95.3	95.3	97.2	98.5	99.0	101.1
12.5°	85.5	87.9	87.9	89.8	89.5	92.5	92.9	94.6	96.0	97.2	99.9
15°	83.5	85.7	85.7	87.6	87.2	90.3	90.8	92.5	94.6	95.3	99.0
17.5°	81.4	83.6	83.1	85.7	85.5	88.9	88.6	91.2	92.9	93.9	98.2
20°	79.7	82.3	81.9	84.5	83.8	87.6	87.6	90.1	91.8	92.7	97.7
22.5°	78.8	81.6	80.9	83.5	83.0	86.7	86.7	89.3	91.2	92.5	97.5
25°	78.8	81.2	80.6	83.5	82.6	86.7	86.5	89.1	91.0	92.2	97.7
27.5°	79.2	81.6	81.1	83.8	83.1	86.7	87.1	89.3	91.2	92.5	98.0
30°	80.4	82.6	81.4	84.0	83.5	86.9	86.7	89.1	91.0	92.7	98.0
32.5°	83.0	84.2	82.6	84.8	83.8	87.2	87.2	88.9	91.2	93.2	98.0
35°	86.5	87.4	85.0	86.5	84.7	88.1	87.9	89.8	91.5	93.2	98.3
37.5°	91.7	92.7	88.9	90.3	87.2	90.0	89.3	91.5	93.2	94.2	100.1
40°	99.4	99.7	94.8	95.8	91.5	93.9	92.2	95.3	96.1	96.8	102.6
42.5°	108.8	109.1	102.8	103.5	98.0	100.1	97.2	100.4	101.6	101.4	107.8
45°	120.4	120.6	113.4	113.9	107.6	109.3	105.7	108.4	109.3	108.8	115.3
47.5°	133.1	134.4	126.4	127.1	120.4	121.3	116.8	119.9	119.9	119.4	126.1
50°	149.8	151.9	142.5	143.5	135.8	136.5	131.4	134.6	134.3	132.9	140.4
52.5°	170.7	172.6	162.7	164.0	155.8	156.2	149.8	153.6	152.6	150.3	159.1
55°	196.2	196.4	187.1	188.3	180.1	179.6	171.7	176.3	174.8	171.7	179.8
57.5°	237.1	232.1	216.9	216.5	207.6	207.0	196.9	202.5	199.9	193.4	204.0
60°	302.9	304.4	265.6	259.6	243.0	240.0	226.6	233.1	230.0	219.4	229.9
62.5°	340.0	364.5	362.1	340.5	297.8	286.1	263.6	271.3	263.2	247.7	257.4
65°	367.6	400.7	419.9	440.6	421.4	373.9	320.5	331.3	311.6	282.0	291.5
67.5°	377.8	417.8	458.2	487.6	507.6	511.2	449.5	452.4	404.0	344.8	346.0
70°	324.1	383.1	462.1	499.4	539.1	558.6	565.1	562.0	530.7	446.9	414.9
71°	274.7	346.2	446.4	488.0	538.8	557.6	574.7	568.9	554.3	487.5	438.4
72.5°	186.1	275.9	400.4	453.1	520.8	534.5	560.2	549.9	546.8	517.7	460.3
75°	87.6	137.5	260.5	340.2	440.8	453.9	480.8	468.1	460.1	470.0	437.9
77.5°	64.5	75.1	143.0	211.4	320.5	339.2	362.3	346.7	336.4	346.4	323.9
80°	58.7	59.0	74.1	111.5	191.2	202.3	211.1	198.4	182.8	182.2	161.5
82.5°	54.0	51.1	48.1	59.0	98.0	93.2	86.2	79.9	62.1	49.8	35.9
85°	34.4	37.6	34.2	32.3	39.0	32.2	25.5	24.5	17.3	11.6	10.8
87.5°	2.4	2.7	3.2	3.8	4.6	3.8	2.4	2.9	1.7	0.0	0.9
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°	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1
2.5°	101.3	102.1	102.5	102.3	101.9	101.6	100.4	101.3	100.1	100.9	99.9
5°	101.8	103.0	103.1	102.8	102.5	101.8	99.7	100.9	99.5	100.2	98.7
7.5°	101.6	103.5	103.6	103.3	102.6	101.4	99.4	100.2	98.0	98.5	96.5
10°	100.7	103.5	103.6	102.8	101.8	99.9	97.5	97.8	95.6	95.6	92.9
12.5°	99.9	103.1	104.0	102.8	101.1	98.5	95.8	95.4	92.9	92.7	89.6
15°	99.9	103.5	104.7	103.1	100.6	97.0	93.7	93.0	90.1	89.3	85.9
17.5°	99.7	103.5	105.2	103.1	100.1	95.4	91.3	90.7	86.9	85.5	81.6
20°	99.5	103.8	105.5	102.8	98.5	93.6	88.9	87.6	83.5	81.2	76.6
22.5°	99.4	104.5	105.9	102.5	97.5	91.2	86.4	84.0	79.2	76.3	70.8
25°	100.2	105.4	106.0	102.1	96.0	88.6	83.5	80.2	74.9	71.2	64.7
27.5°	100.6	106.2	106.4	101.4	94.1	85.9	80.4	75.9	70.0	65.3	58.0
30°	101.6	106.4	105.9	100.1	91.8	82.4	76.8	71.3	64.7	58.7	49.9
32.5°	101.9	106.9	105.5	98.5	89.6	79.0	72.7	66.4	58.3	51.3	40.7
35°	102.6	107.2	105.2	97.7	87.2	75.4	68.4	61.2	52.0	43.1	31.0
37.5°	103.6	108.8	106.0	97.3	86.0	72.3	63.6	55.9	44.5	34.0	20.5
40°	106.2	111.9	107.6	97.8	85.2	69.8	59.0	50.5	35.9	25.1	14.2
42.5°	111.3	117.2	111.5	100.4	85.7	67.6	54.2	44.6	27.2	18.0	11.8
45°	119.0	124.0	118.0	104.7	87.7	66.4	49.8	38.7	19.5	14.4	10.8
47.5°	130.3	135.1	127.6	111.5	91.3	65.9	45.2	32.3	15.1	13.0	10.4
50°	145.2	150.9	141.4	122.3	98.0	66.4	40.2	26.3	13.2	12.7	10.3
52.5°	163.5	169.0	159.6	138.2	109.0	69.3	34.9	22.9	12.5	12.5	10.1
55°	184.2	191.9	182.7	160.3	125.9	75.6	31.6	21.7	12.5	12.7	9.9
57.5°	208.7	215.2	207.0	181.5	146.2	86.0	32.0	22.9	12.5	12.7	9.7
60°	232.6	240.7	231.2	208.5	169.5	101.8	39.0	29.1	13.0	13.2	9.7
62.5°	257.6	263.7	256.0	232.1	195.8	121.3	53.0	42.1	15.1	15.6	10.4
65°	285.0	295.0	287.0	267.3	233.1	152.4	79.7	63.1	22.2	18.1	11.5
67.5°	332.3	336.4	332.5	314.5	276.7	178.1	94.9	64.1	22.2	17.6	12.8
70°	396.5	387.2	369.6	336.1	281.4	159.8	68.1	39.2	19.0	16.8	13.5
71°	411.3	397.2	371.2	330.8	271.8	144.2	52.9	31.0	17.8	16.4	13.5
72.5°	420.4	399.2	359.9	315.2	253.0	113.6	34.9	24.3	16.2	15.6	13.0
75°	408.6	369.4	317.8	272.8	207.1	59.0	21.9	18.5	13.9	13.5	11.3
77.5°	324.5	290.1	234.5	198.2	133.2	26.2	15.7	14.0	10.9	10.6	8.7
80°	151.4	121.4	71.2	61.1	41.9	15.4	10.8	9.6	7.9	7.5	6.2
82.5°	27.5	20.7	16.1	15.6	14.0	9.1	6.3	5.8	5.0	4.8	3.9
85°	9.4	9.1	6.8	6.8	7.0	4.8	3.6	3.4	2.6	2.6	1.7
87.5°	0.2	0.9	0.9	1.2	1.0	0.9	0.3	0.5	0.2	0.5	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°	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1
2.5°	100.7	99.4	100.6	99.4	100.1	98.7	99.5	99.0	99.0	98.5	98.2
5°	99.2	97.5	98.3	97.0	97.7	95.6	96.1	95.3	93.6	92.5	91.2
7.5°	97.0	94.4	95.1	93.0	93.6	90.8	91.3	89.8	86.5	84.5	82.4
10°	93.0	90.7	90.8	88.3	88.1	85.3	84.8	82.8	78.0	74.6	71.8
12.5°	89.1	86.4	86.0	83.0	82.4	79.2	78.5	75.3	68.2	61.6	57.3
15°	85.0	81.6	80.6	77.3	75.4	72.7	70.8	66.0	55.9	47.2	41.6
17.5°	80.4	75.9	74.4	70.6	67.9	63.8	61.1	54.6	41.6	32.2	28.2
20°	74.4	69.6	66.9	62.1	58.5	53.5	50.1	41.7	27.7	22.9	22.4
22.5°	67.7	62.1	58.7	52.7	48.2	42.9	37.5	28.2	19.7	18.6	19.3
25°	60.7	53.7	49.3	41.9	35.9	29.8	24.6	18.8	16.1	15.9	16.9
27.5°	52.3	44.3	38.0	29.2	23.8	19.0	16.8	14.9	13.7	13.9	14.9
30°	43.1	32.7	26.0	18.3	15.9	13.9	13.5	12.8	12.3	12.7	13.3
32.5°	32.2	20.9	16.8	13.2	13.0	11.8	12.1	11.8	11.6	11.8	12.3
35°	21.7	13.9	13.2	11.3	11.6	10.8	11.3	11.1	10.9	10.9	11.3
37.5°	15.1	11.5	11.8	10.4	10.9	10.3	10.8	10.6	10.4	10.3	10.4
40°	12.5	10.4	10.9	9.9	10.4	9.7	10.3	10.1	9.9	9.6	9.6
42.5°	11.5	9.9	10.4	9.4	10.1	9.2	9.9	9.6	9.2	8.9	9.1
45°	11.1	9.6	10.1	9.1	9.7	8.9	9.4	9.2	8.6	8.4	8.6
47.5°	10.8	9.4	9.9	8.9	9.4	8.6	9.1	8.7	8.0	7.9	8.0
50°	10.6	9.1	9.6	8.6	9.1	8.4	8.7	8.4	7.7	7.5	7.5
52.5°	10.4	8.9	9.4	8.2	8.7	7.7	8.2	7.9	7.2	7.0	7.0
55°	10.4	8.7	9.1	7.9	8.4	7.4	7.7	7.4	7.0	6.7	6.7
57.5°	10.3	8.4	8.9	7.5	7.9	7.0	7.4	7.0	6.5	6.3	6.3
60°	10.3	8.2	8.7	7.4	7.7	6.7	7.0	6.7	6.2	6.0	6.0
62.5°	10.8	8.6	8.9	7.5	7.7	6.7	6.8	6.3	5.8	5.8	5.6
65°	11.8	9.6	9.6	7.9	7.9	6.7	6.8	6.2	5.5	5.5	5.5
67.5°	12.8	10.6	10.4	8.4	8.2	6.7	6.7	5.8	5.1	5.1	5.1
70°	13.5	11.1	10.8	8.6	8.2	6.5	6.3	5.5	4.8	4.8	4.8
71°	13.3	11.1	10.6	8.4	7.9	6.2	6.2	5.3	4.6	4.6	4.4
72.5°	12.7	10.4	9.9	7.9	7.5	5.8	5.8	5.0	4.3	4.3	4.1
75°	10.8	8.9	8.4	6.7	6.3	5.1	5.0	4.1	3.8	3.6	3.6
77.5°	8.4	7.0	6.5	5.3	5.1	4.1	3.9	3.4	3.1	3.1	2.9
80°	6.0	5.0	4.6	3.6	3.2	2.7	2.9	2.6	2.4	2.4	2.2
82.5°	3.6	2.6	2.6	2.1	2.2	1.7	1.9	1.9	1.7	1.4	1.4
85°	1.9	1.2	1.5	0.9	1.2	0.5	0.9	0.7	0.7	0.5	0.5
87.5°	0.3	0.0	0.2	0.0	0.2	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°	102.1	102.1
2.5°	97.2	97.3
5°	90.5	90.8
7.5°	80.9	81.4
10°	69.4	69.8
12.5°	54.7	54.7
15°	38.3	38.7
17.5°	26.9	27.0
20°	22.6	22.7
22.5°	20.2	20.4
25°	18.0	18.1
27.5°	15.6	15.7
30°	14.0	14.2
32.5°	12.7	12.8
35°	11.5	11.5
37.5°	10.6	10.6
40°	9.7	9.7
42.5°	9.2	9.2
45°	8.7	8.7
47.5°	8.2	8.2
50°	7.7	7.9
52.5°	7.2	7.2
55°	6.7	6.7
57.5°	6.2	6.3
60°	5.8	5.8
62.5°	5.5	5.5
65°	5.3	5.3
67.5°	5.0	5.0
70°	4.6	4.6
71°	4.4	4.4
72.5°	4.1	4.1
75°	3.6	3.4
77.5°	2.9	2.9
80°	2.2	2.1
82.5°	1.4	1.2
85°	0.5	0.3
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)