

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: INVUE

Report Number: P141858

Luminaire Tested: **ECM-E01-LED-E1-T3-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P141858
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33683)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-E01-LED-E1-T3-8030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2478.2 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 24.7
Input Voltage (V): NR
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

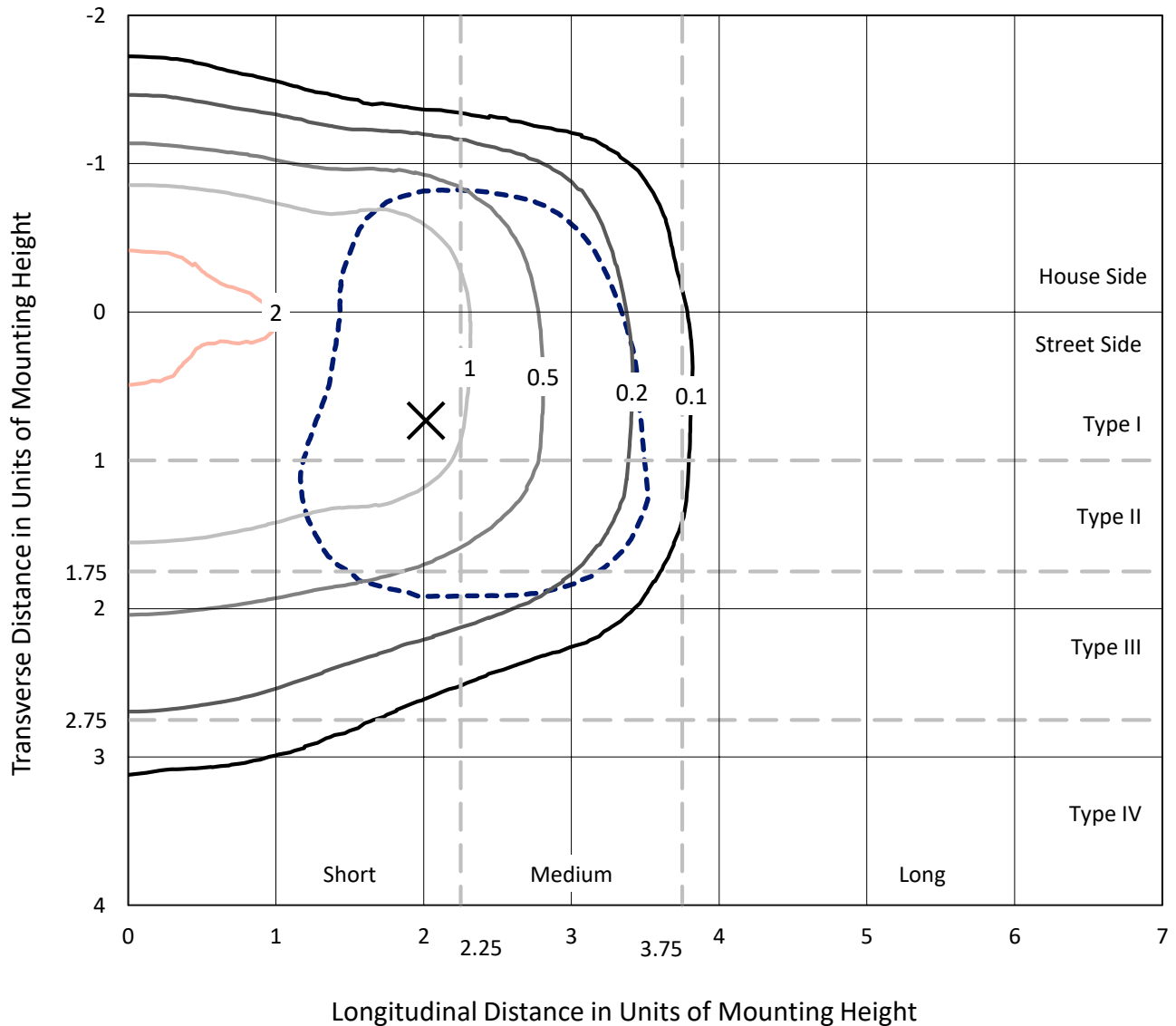


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

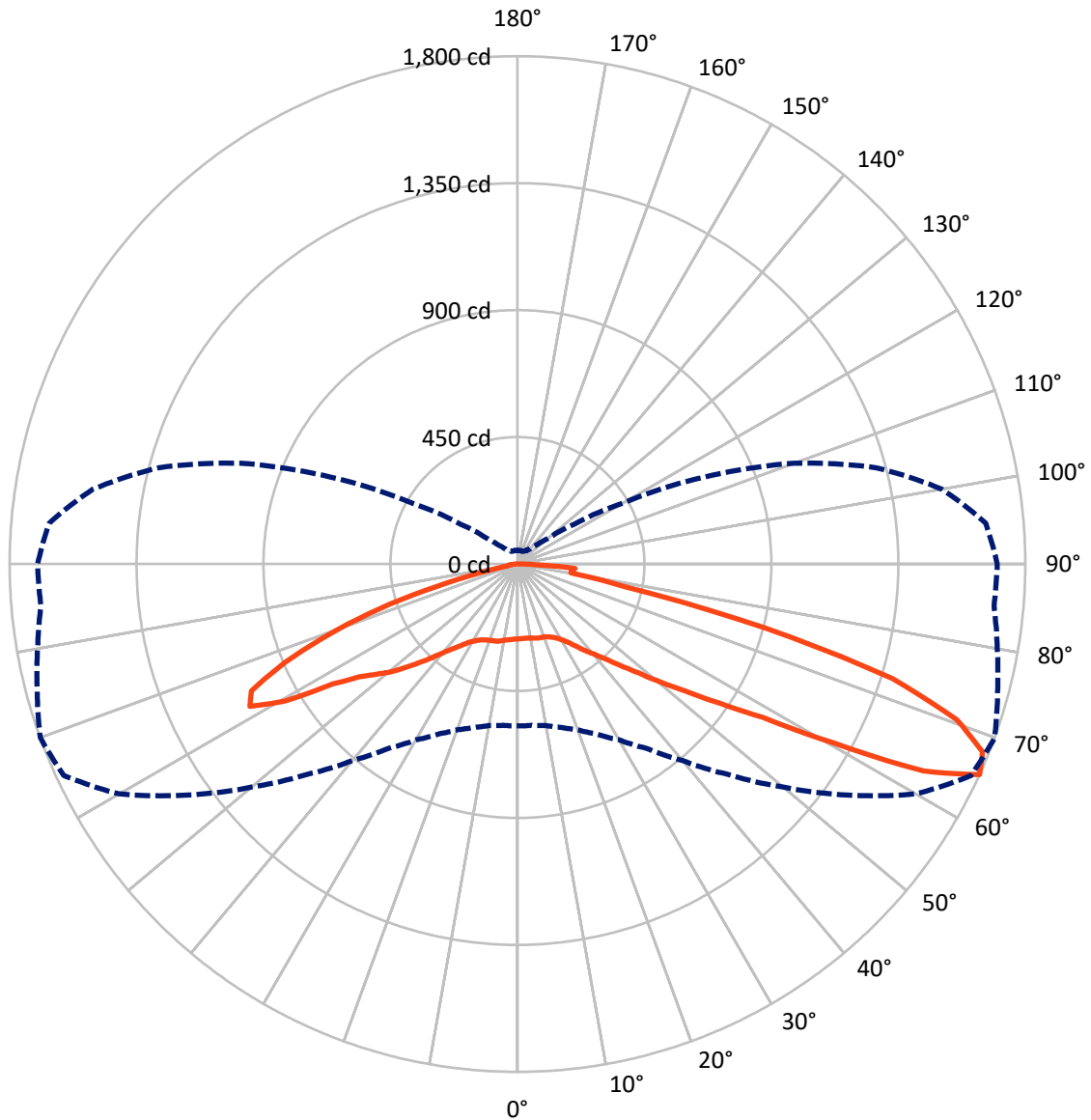


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	836.6	0.0	836.6
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	1641.6	0.0	1641.6
	% Fixture	66.2	0.0	66.2
Total	Lumens	2478.2	0.0	2478.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.6	1.0
10°-20°	75.7	3.1
20°-30°	130.2	5.3
30°-40°	208.7	8.4
40°-50°	341.6	13.8
50°-60°	534.7	21.6
60°-70°	751.5	30.3
70°-80°	355.6	14.3
80°-90°	54.6	2.2
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°	2478.2	100.0
0°-180°	2478.2	100.0



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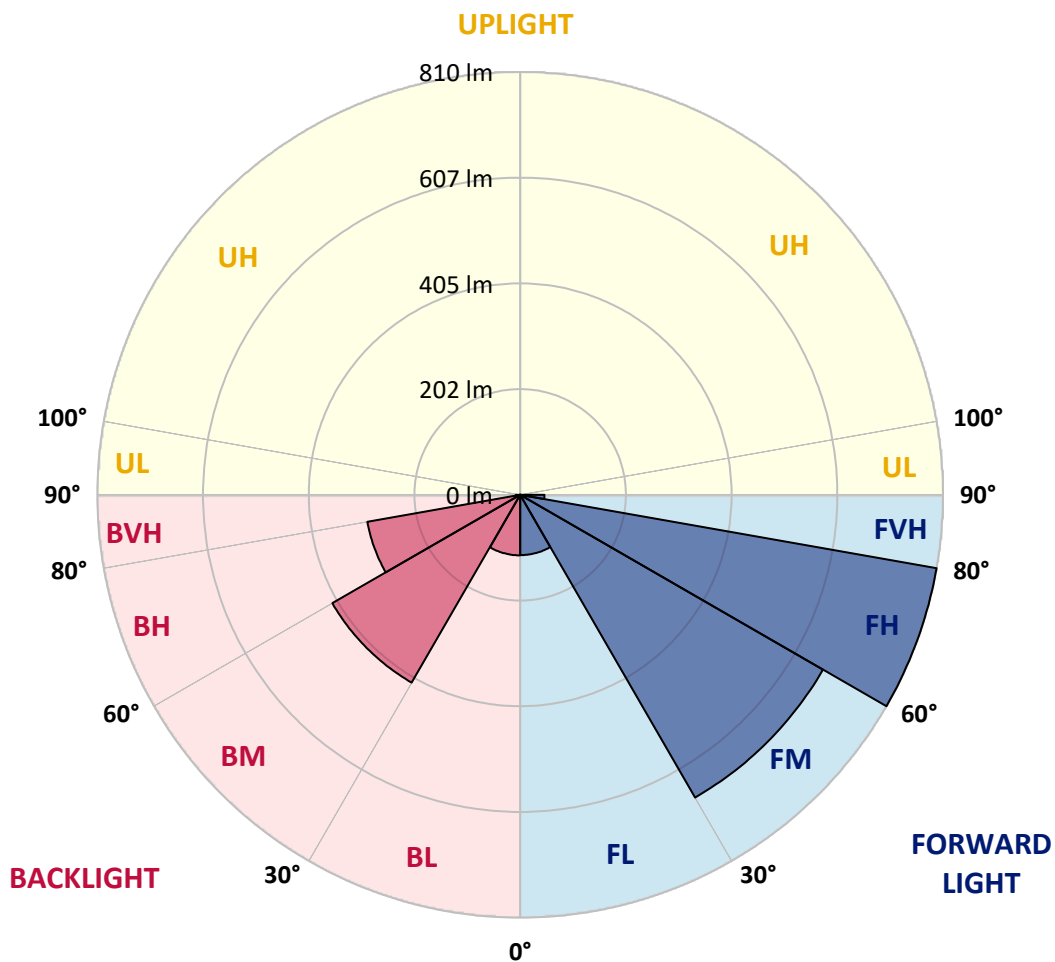
CATALOG NUMBER: ECM-E01-LED-E1-T3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	115.5	4.7			
FM	(30°-60°)	669.7	27.0			
FH	(60°-80°)	809.9	32.7			G1/1800
FVH	(80°-90°)	46.6	1.9			G1/100
BL	(0°-30°)	116.0	4.7	B1/500		
BM	(30°-60°)	415.3	16.8	B1/1000		
BH	(60°-80°)	297.2	12.0	B1/500		G1/500
BVH	(80°-90°)	8.1	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6
2.5°	264.2	264.5	264.5	263.9	263.9	264.2	264.2	264.5	264.5	264.5	264.7
5°	264.2	264.5	264.5	264.2	263.9	264.5	264.2	264.5	264.5	264.5	264.5
7.5°	263.6	263.9	263.9	263.6	263.9	264.2	264.2	264.7	265.0	265.0	265.3
10°	260.8	261.1	261.4	261.4	261.9	262.8	263.0	264.2	264.5	265.3	265.9
12.5°	255.7	255.7	256.3	256.9	257.7	259.4	260.2	261.9	263.3	264.5	266.4
15°	251.2	251.2	251.8	252.1	253.8	254.9	256.6	258.5	261.1	263.3	266.4
17.5°	253.5	253.5	253.2	252.9	253.2	253.2	254.6	256.6	258.8	261.9	265.9
20°	262.2	261.9	260.8	260.2	259.9	258.8	258.0	257.7	258.8	261.1	265.0
22.5°	269.8	269.2	269.0	268.4	269.2	268.7	267.5	266.1	264.5	263.6	265.9
25°	274.3	274.6	274.6	274.6	276.3	276.8	277.4	275.7	273.7	270.9	271.2
27.5°	280.5	280.8	280.2	281.3	283.3	284.7	286.1	287.2	286.1	284.4	282.5
30°	293.7	293.7	292.9	293.7	295.4	296.8	298.8	300.7	300.7	299.1	297.1
32.5°	307.5	307.8	307.8	308.3	310.9	312.0	314.8	316.8	318.2	317.1	318.2
35°	324.1	323.8	324.7	324.9	328.9	330.3	335.9	337.3	339.6	340.1	341.0
37.5°	351.7	352.2	350.5	349.4	352.8	352.8	360.1	364.0	363.5	367.4	370.2
40°	396.1	393.6	392.7	392.2	394.1	393.9	393.6	398.9	401.5	402.0	403.4
42.5°	445.3	446.2	445.3	447.3	447.3	445.9	444.8	443.9	448.7	451.8	452.4
45°	503.0	504.1	502.5	501.0	504.7	506.7	506.7	508.9	512.9	514.3	513.4
47.5°	549.2	552.3	550.8	552.8	558.7	565.5	574.5	580.4	584.6	588.5	594.7
50°	590.8	592.2	595.6	602.0	610.8	621.5	636.1	650.7	659.2	669.0	676.3
52.5°	616.1	620.3	625.4	636.1	650.7	665.6	688.1	712.0	733.4	744.4	753.1
55°	631.3	634.4	641.2	655.8	676.3	698.5	726.7	759.6	788.0	812.2	831.0
57.5°	630.7	633.3	642.6	658.6	683.1	710.9	746.1	787.2	829.1	869.3	904.8
60°	618.6	620.9	630.2	647.3	674.1	707.3	749.5	799.8	856.7	917.1	979.3
62.5°	600.1	601.8	609.9	627.1	654.1	689.5	739.1	805.2	885.9	981.3	1102.0
65°	573.9	573.9	581.5	599.2	625.1	664.8	719.4	797.0	908.7	1053.9	1229.4
67.5°	535.4	535.4	541.6	556.2	576.4	604.0	658.6	739.3	857.2	1031.1	1236.4
70°	462.5	463.6	463.6	472.6	481.6	494.0	519.9	581.8	692.4	862.3	1064.3
72.5°	339.0	318.5	334.5	349.1	359.3	366.0	380.9	400.3	456.0	583.5	766.3
75°	213.5	218.9	231.0	247.6	272.6	298.5	326.9	339.0	333.9	349.1	472.1
77.5°	129.4	124.9	136.7	161.5	189.6	224.8	278.0	324.1	350.5	348.8	334.2
80°	56.0	54.6	62.5	74.3	88.1	119.8	168.5	231.8	302.1	342.9	336.8
82.5°	20.0	20.3	25.6	30.4	36.6	47.0	66.7	106.6	169.1	240.8	297.6
85°	5.9	6.5	9.0	12.7	14.3	16.3	22.5	33.5	57.1	91.2	162.0
87.5°	1.7	2.0	2.5	4.5	4.2	3.9	4.5	7.0	5.3	4.5	22.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6
2.5°	264.5	264.5	264.5	264.7	264.5	264.5	264.7	264.7	265.0	265.3	265.9
5°	264.2	264.2	264.5	264.5	264.5	264.7	265.0	265.3	265.9	266.7	267.5
7.5°	265.0	265.0	264.7	265.0	265.0	265.3	265.9	266.1	267.3	268.1	269.5
10°	265.9	265.9	266.1	266.4	266.4	267.0	267.8	268.1	269.2	270.9	272.3
12.5°	267.0	267.8	269.0	269.5	270.1	270.6	271.5	272.0	273.5	275.7	277.4
15°	267.8	269.8	270.9	272.3	273.2	273.5	274.3	275.4	276.8	279.1	281.0
17.5°	267.8	270.4	272.0	273.5	274.9	275.7	276.5	277.7	279.6	281.9	283.9
20°	267.5	271.2	273.5	275.7	278.2	279.1	280.5	281.6	283.9	286.7	288.1
22.5°	269.0	273.2	276.3	280.2	283.0	285.3	287.0	288.9	290.6	292.6	293.1
25°	273.2	277.4	282.5	287.2	291.2	294.6	296.8	298.5	300.5	301.3	300.2
27.5°	280.2	283.3	290.3	297.4	303.6	307.8	310.3	312.6	313.1	314.8	310.6
30°	292.9	294.3	301.6	311.7	318.7	325.8	329.2	331.4	331.7	330.6	323.2
32.5°	313.7	311.2	317.6	331.1	341.8	347.7	353.1	354.5	353.6	350.0	338.2
35°	339.0	335.1	338.2	357.9	369.7	378.4	383.5	384.9	382.9	376.4	360.1
37.5°	370.2	368.8	370.2	389.1	409.6	417.8	420.0	421.7	416.9	405.1	383.7
40°	404.8	405.1	403.4	420.6	446.5	458.3	463.6	460.0	454.1	437.2	413.6
42.5°	452.7	451.0	445.1	460.5	493.7	505.8	510.6	507.8	501.9	480.5	452.9
45°	516.0	510.3	504.7	512.9	544.9	560.7	567.7	565.8	555.3	529.5	503.6
47.5°	593.3	587.4	577.0	575.6	608.0	626.5	629.1	626.0	618.1	592.2	560.4
50°	674.6	672.9	668.2	656.9	685.9	704.5	702.8	700.5	691.8	658.9	626.2
52.5°	758.7	762.1	759.0	751.2	782.1	789.7	790.3	783.5	773.4	743.0	698.5
55°	847.1	859.7	864.5	870.7	895.2	894.1	887.6	871.6	874.1	839.5	777.9
57.5°	940.8	979.6	1010.3	1024.0	1047.4	1054.1	1037.8	1043.2	1040.9	1005.2	908.1
60°	1064.3	1157.1	1237.0	1286.2	1317.8	1305.7	1328.4	1329.6	1368.1	1289.6	1138.3
62.5°	1261.2	1431.7	1573.5	1616.0	1624.1	1621.3	1594.3	1621.3	1614.0	1518.3	1322.3
65°	1426.9	1629.7	1773.8	1799.7	1761.7	1726.8	1695.3	1700.6	1665.8	1527.3	1316.9
67.5°	1449.4	1651.4	1785.0	1777.7	1694.7	1630.0	1577.7	1536.6	1465.4	1340.3	1156.8
70°	1271.3	1485.4	1657.6	1652.0	1536.6	1450.3	1365.3	1303.4	1230.8	1134.0	960.5
72.5°	988.9	1179.6	1346.4	1389.8	1276.1	1180.7	1102.8	1024.0	949.2	857.2	747.8
75°	673.2	816.7	894.3	906.2	802.1	730.6	700.5	636.1	556.8	537.1	456.0
77.5°	391.0	446.2	422.6	391.0	314.8	231.3	176.7	151.1	151.6	174.1	166.8
80°	317.9	302.7	238.8	191.6	130.3	66.4	44.5	38.3	38.5	44.7	43.3
82.5°	327.7	336.5	276.5	193.6	133.4	70.3	33.8	25.0	29.3	31.8	31.2
85°	242.8	318.2	285.3	205.4	143.2	74.8	21.9	13.8	19.4	23.6	25.3
87.5°	68.1	106.9	83.0	54.9	39.9	13.5	8.7	7.3	9.0	12.4	12.4
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°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6
2.5°	266.1	267.3	267.0	267.5	267.8	268.7	269.2	269.0	269.0	269.5	270.1
5°	268.4	269.8	269.8	270.6	271.5	272.6	273.5	272.9	273.2	273.7	274.3
7.5°	270.6	272.3	272.6	273.5	274.0	274.6	275.1	274.3	274.0	274.0	273.7
10°	273.5	275.1	274.9	274.9	274.6	274.0	272.9	270.9	269.5	268.7	268.1
12.5°	278.2	279.4	277.7	276.0	273.2	271.2	268.7	266.4	264.7	263.3	262.8
15°	282.5	281.9	279.9	276.8	272.9	269.8	267.3	264.2	262.2	260.5	259.7
17.5°	284.7	282.7	279.9	277.1	273.7	270.9	267.8	264.2	261.1	258.8	257.7
20°	287.0	283.9	280.2	277.4	274.9	272.6	270.4	265.9	261.9	258.5	256.9
22.5°	290.3	286.1	282.5	279.9	277.4	275.1	272.9	268.7	264.5	259.9	257.4
25°	295.1	289.5	287.0	284.4	281.6	279.4	276.3	272.3	267.8	262.5	258.8
27.5°	302.7	297.6	294.8	292.3	288.9	285.3	281.9	276.5	272.3	266.1	261.4
30°	313.7	308.3	305.8	303.3	299.3	294.6	289.8	283.0	277.1	270.1	263.9
32.5°	327.5	324.7	321.6	317.3	312.0	306.1	299.1	290.1	281.6	272.9	265.0
35°	348.8	344.1	339.0	334.8	326.9	318.7	308.1	294.8	283.6	272.9	263.3
37.5°	373.3	368.3	361.5	353.9	342.1	329.2	314.2	297.6	282.7	269.8	259.1
40°	402.9	396.4	387.4	373.0	355.6	336.2	316.2	295.4	278.0	263.0	250.7
42.5°	442.0	428.7	411.3	390.2	365.4	339.0	313.7	289.5	269.8	253.5	241.1
45°	486.1	465.0	436.9	405.4	371.1	337.9	308.1	279.9	257.7	239.7	226.8
47.5°	533.7	500.8	459.4	415.0	371.6	331.7	297.1	265.6	240.5	221.4	205.4
50°	587.4	533.1	475.2	419.7	368.0	320.7	281.3	245.0	219.2	196.4	181.7
52.5°	633.6	561.5	486.1	417.8	355.0	301.6	255.4	220.3	189.9	169.6	155.3
55°	688.1	589.1	492.0	407.9	334.2	271.8	227.6	188.5	159.8	141.8	129.4
57.5°	780.1	635.8	497.1	388.0	299.9	234.3	189.1	152.5	130.0	114.2	105.5
60°	957.6	726.4	517.9	358.1	256.3	189.3	146.0	119.3	99.9	89.5	83.3
62.5°	1073.8	788.0	508.6	312.3	200.3	141.8	106.9	86.1	74.8	67.2	64.4
65°	1044.3	725.8	431.6	247.6	139.5	94.2	71.7	59.1	54.0	50.1	48.4
67.5°	896.9	585.4	312.8	160.1	88.3	57.4	47.0	41.9	39.7	38.0	37.7
70°	714.6	412.7	186.0	85.0	49.0	38.0	33.5	31.5	30.7	30.7	30.7
72.5°	518.5	237.7	91.4	45.9	32.9	29.0	27.0	26.4	26.2	26.2	26.4
75°	296.2	103.0	47.0	31.5	27.0	25.0	23.9	23.9	23.9	23.9	24.2
77.5°	103.2	47.0	33.2	26.4	23.4	22.2	21.7	22.2	22.5	22.5	22.5
80°	37.7	33.2	28.4	23.1	20.8	19.7	19.7	20.5	21.1	20.5	20.3
82.5°	29.8	26.2	23.1	20.0	18.3	17.7	18.0	18.6	18.3	18.0	17.2
85°	22.8	17.2	16.0	14.9	14.6	14.6	15.8	16.0	14.9	14.3	13.5
87.5°	11.3	9.0	8.2	9.6	9.3	8.4	8.7	8.7	7.3	6.8	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):

	165°	170°	175°	180°
0°	265.6	265.6	265.6	265.6
2.5°	270.1	270.4	271.2	270.9
5°	274.0	274.3	274.9	274.9
7.5°	273.2	273.5	273.5	273.5
10°	266.7	266.7	267.3	267.3
12.5°	261.6	261.4	261.4	260.8
15°	258.5	258.0	258.3	257.4
17.5°	256.3	256.0	256.0	255.4
20°	255.4	254.9	254.6	254.0
22.5°	254.9	254.6	254.0	253.5
25°	256.3	254.9	254.6	254.0
27.5°	257.7	256.3	255.2	254.9
30°	259.1	256.6	255.2	254.6
32.5°	258.8	255.4	253.5	252.6
35°	255.7	251.5	249.0	248.1
37.5°	249.8	245.0	241.1	239.7
40°	241.4	235.2	231.5	229.6
42.5°	231.3	224.2	221.1	219.4
45°	214.7	209.0	205.4	204.0
47.5°	196.1	188.5	185.1	183.7
50°	172.2	166.0	163.2	161.2
52.5°	146.9	141.2	138.7	137.6
55°	122.4	119.6	115.6	114.8
57.5°	99.3	98.5	95.7	95.4
60°	80.7	79.3	77.4	77.4
62.5°	63.6	62.2	61.3	61.3
65°	49.0	48.7	48.1	47.8
67.5°	37.7	38.5	38.8	38.3
70°	31.5	31.8	31.8	31.8
72.5°	27.3	27.3	27.3	27.0
75°	24.8	24.8	24.2	23.9
77.5°	22.8	22.5	22.8	22.5
80°	20.0	19.7	19.1	18.6
82.5°	16.6	16.3	14.9	14.9
85°	12.9	12.1	11.0	9.8
87.5°	7.3	6.5	4.8	3.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)