

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: P141553

Luminaire Tested: **ECM-F02-LED-E1-SLR-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P141553
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33693)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-F02-LED-E1-SLR-8030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3644.7 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

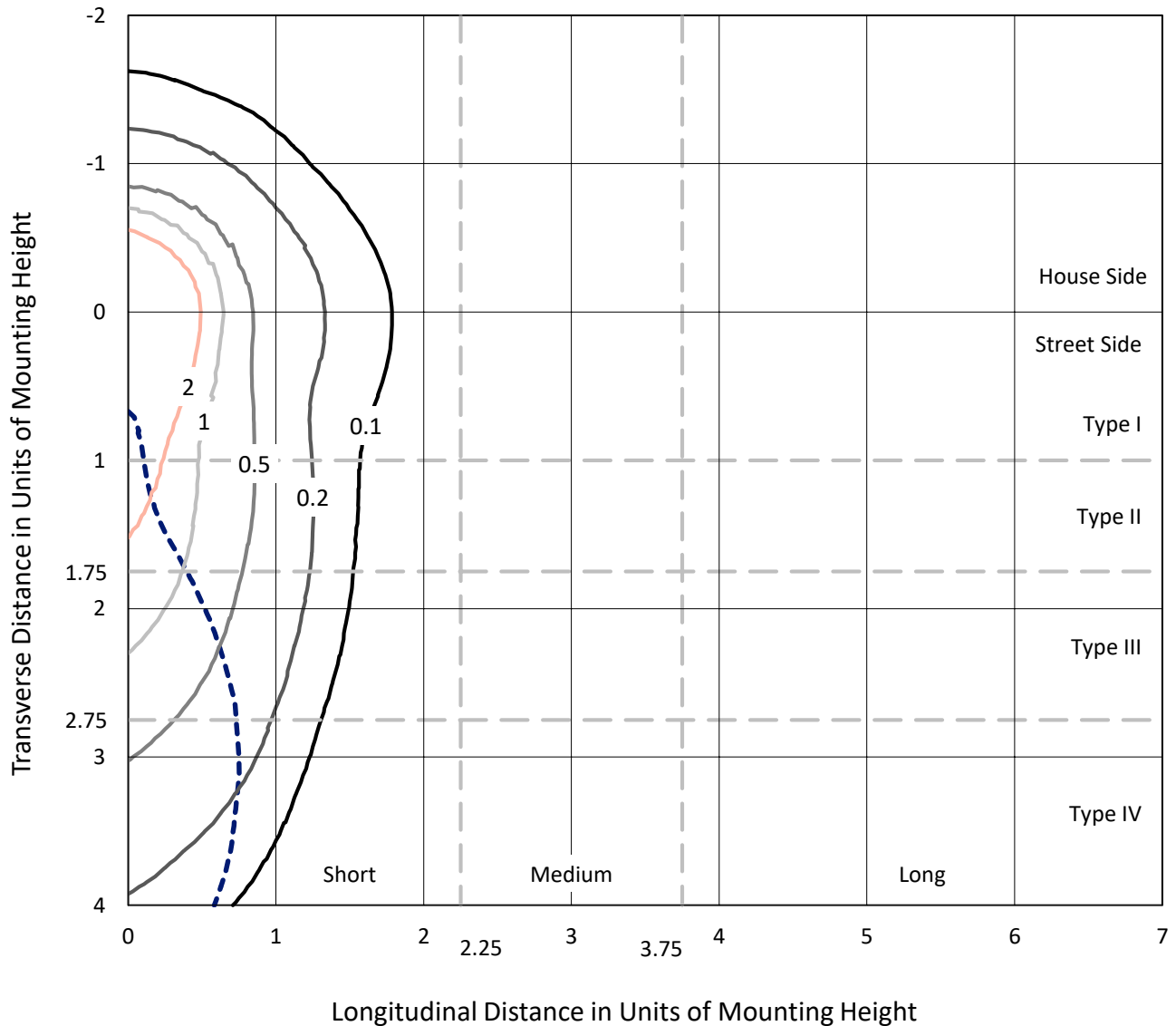
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

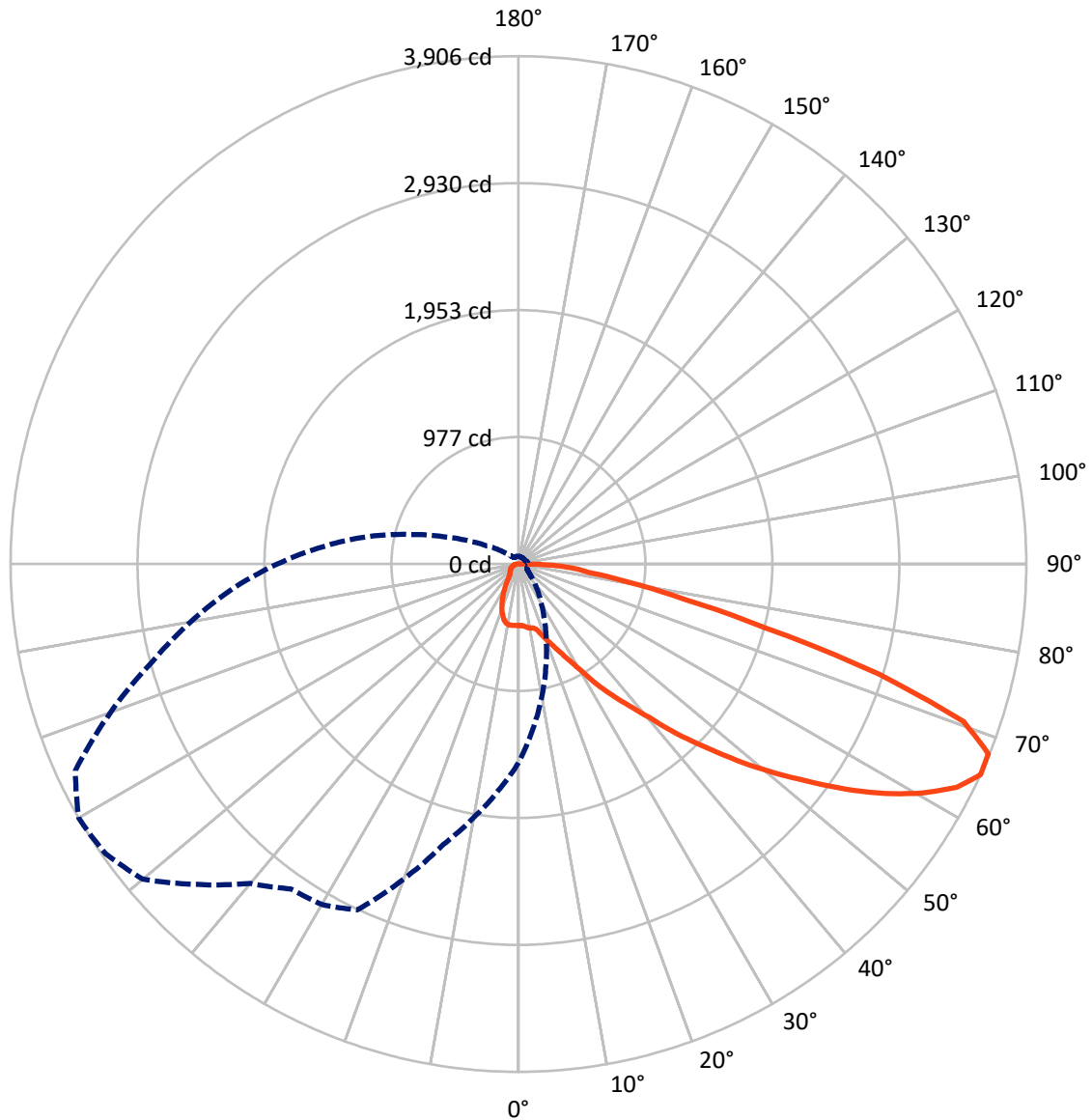
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	676.0	0.0	676.0
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	2968.7	0.0	2968.7
	% Fixture	81.5	0.0	81.5
Total	Lumens	3644.7	0.0	3644.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.8	1.3
10°-20°	137.7	3.8
20°-30°	228.7	6.3
30°-40°	334.4	9.2
40°-50°	508.6	14.0
50°-60°	731.1	20.1
60°-70°	898.9	24.7
70°-80°	601.3	16.5
80°-90°	158.2	4.3
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°	3644.7	100.0
0°-180°	3644.7	100.0



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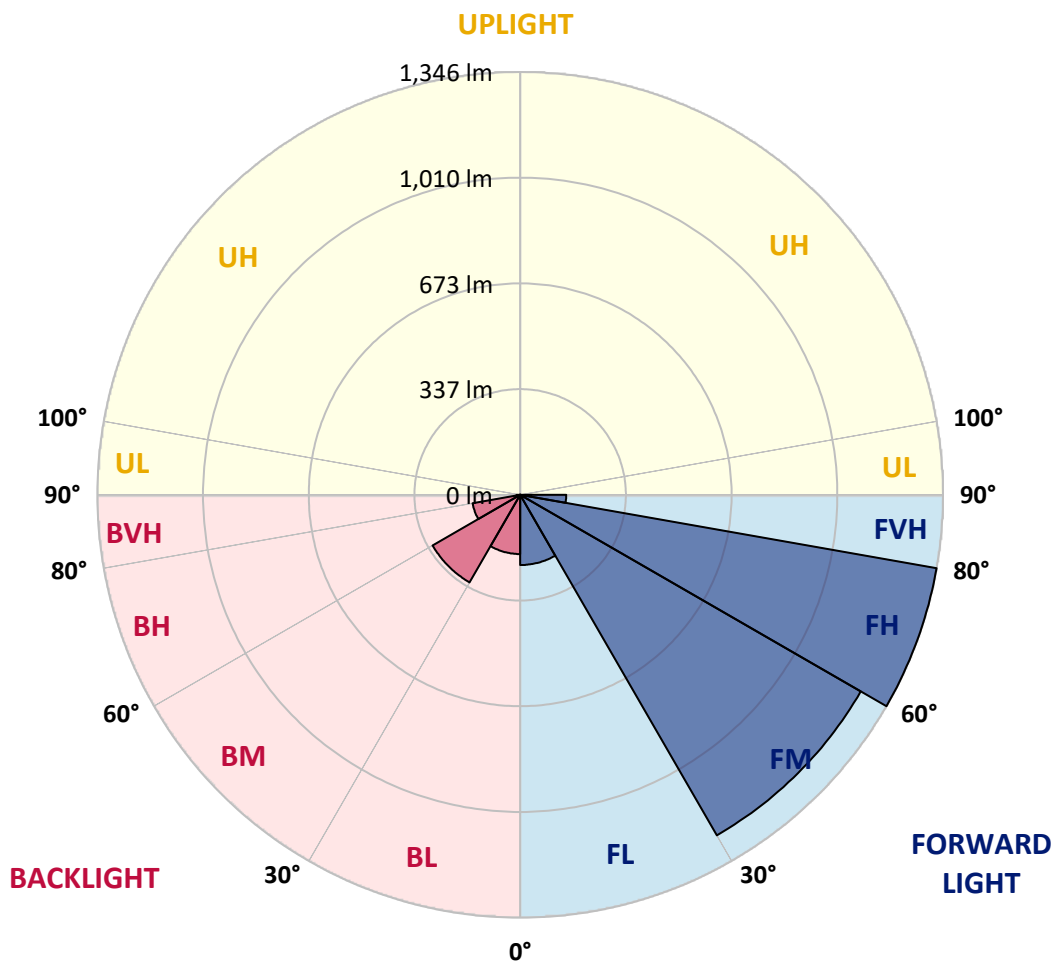
CATALOG NUMBER: ECM-F02-LED-E1-SLR-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	223.6	6.1			
FM	(30°-60°)	1252.1	34.4			
FH	(60°-80°)	1346.3	36.9			G1/1800
FVH	(80°-90°)	146.7	4.0			G2/225
BL	(0°-30°)	188.7	5.2	B1/500		
BM	(30°-60°)	322.0	8.8	B1/1000		
BH	(60°-80°)	153.8	4.2	B1/500		G1/500
BVH	(80°-90°)	11.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8
2.5°	474.2	475.6	475.6	474.7	474.2	474.7	475.2	474.7	475.2	476.1	475.6
5°	468.2	469.1	469.6	469.6	469.6	470.5	471.9	471.5	472.9	473.8	473.8
7.5°	453.8	455.7	455.7	456.1	457.1	458.5	460.8	461.7	464.0	467.3	468.2
10°	445.0	445.4	444.1	443.6	444.5	447.3	448.7	451.0	454.7	458.5	462.2
12.5°	447.3	447.8	445.4	445.9	445.9	447.3	451.5	453.3	454.7	457.1	460.8
15°	466.3	466.3	463.6	464.5	465.0	466.8	466.8	463.6	462.6	460.3	458.5
17.5°	491.9	488.2	487.7	487.3	489.1	487.3	483.1	475.6	466.8	457.5	450.1
20°	518.4	518.8	516.0	515.6	510.5	504.0	491.9	477.0	461.2	446.8	432.0
22.5°	557.9	558.8	553.7	543.5	532.3	515.1	493.3	470.5	447.8	427.8	410.6
25°	617.8	608.0	596.4	575.0	546.7	516.5	486.3	458.0	428.3	401.8	380.0
27.5°	677.2	657.7	626.6	591.8	551.8	512.8	477.0	438.9	403.6	371.6	346.5
30°	732.5	696.3	651.7	602.0	550.9	500.7	455.2	412.0	370.2	335.8	306.1
32.5°	788.7	735.8	674.0	604.3	537.0	477.0	424.5	374.8	333.5	291.7	259.7
35°	859.3	779.4	687.4	595.5	512.8	439.9	383.7	336.3	291.7	249.4	216.0
37.5°	923.9	814.3	694.4	580.6	481.2	401.3	339.5	291.2	249.4	213.7	184.9
40°	971.2	837.0	693.5	561.6	449.2	361.8	301.0	257.3	219.7	191.4	169.1
42.5°	1008.4	850.0	688.8	543.5	421.3	333.0	275.9	236.0	206.2	183.5	166.3
45°	1034.0	859.3	686.1	529.1	402.7	319.1	267.5	234.1	209.0	188.6	169.1
47.5°	1056.3	870.0	685.1	522.6	398.5	323.3	278.7	248.5	221.1	194.6	168.6
50°	1078.5	880.7	693.5	533.2	414.3	346.5	304.7	266.2	228.5	192.8	160.7
52.5°	1109.2	911.8	724.6	563.9	448.7	379.0	329.3	280.6	229.9	188.1	153.3
55°	1155.2	960.1	769.2	604.3	485.9	414.3	349.3	286.1	228.5	183.0	146.3
57.5°	1230.4	1031.2	830.0	660.5	534.2	441.7	360.4	288.4	225.3	177.4	140.7
60°	1325.7	1112.5	906.7	719.5	575.5	460.8	365.1	287.5	220.6	170.9	132.8
62.5°	1433.9	1201.6	975.9	773.4	605.2	469.6	363.2	280.1	209.9	157.5	121.7
65°	1529.1	1272.7	1034.0	816.6	623.8	469.6	351.6	262.9	190.9	138.4	107.3
67.5°	1607.1	1332.6	1078.5	841.7	625.7	453.3	323.7	231.8	160.7	114.7	90.6
70°	1648.0	1351.7	1092.5	838.9	594.5	406.4	272.7	180.2	118.0	89.2	72.9
72.5°	1603.0	1306.6	1033.0	758.0	496.1	303.3	190.9	122.6	84.5	69.2	60.4
75°	1426.4	1108.7	859.8	586.2	355.3	189.0	118.4	85.9	66.9	57.6	53.0
77.5°	1065.1	826.3	591.8	371.1	203.4	114.7	83.1	65.5	56.2	50.6	46.4
80°	669.8	509.1	355.8	204.4	116.1	84.5	69.2	58.5	51.1	44.1	39.9
82.5°	373.0	271.3	181.2	116.6	80.8	68.3	59.9	53.9	45.5	38.6	34.4
85°	255.0	167.7	114.3	76.6	55.7	49.7	44.6	40.9	34.8	29.3	26.9
87.5°	103.6	96.6	70.1	30.7	22.8	20.4	18.1	22.3	18.6	14.4	13.5
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°	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8
2.5°	476.6	475.6	476.1	475.6	475.2	474.7	474.2	474.7	473.8	474.2	474.2
5°	475.2	474.2	475.6	475.2	474.2	474.2	473.8	473.8	473.8	473.8	474.2
7.5°	471.0	471.0	472.4	472.4	471.5	471.5	470.5	470.1	470.1	470.5	471.5
10°	465.4	466.8	469.1	468.2	466.3	465.4	464.0	463.1	462.6	463.6	464.5
12.5°	461.2	462.2	460.8	459.4	456.6	453.3	452.9	450.6	449.2	451.5	451.5
15°	454.3	450.6	445.4	440.8	434.3	431.0	427.3	426.4	423.2	423.6	425.9
17.5°	439.4	429.7	421.8	417.1	411.5	409.2	405.0	402.7	400.4	398.1	399.5
20°	418.5	407.8	397.6	391.6	382.7	380.9	373.9	373.9	371.1	371.6	374.4
22.5°	392.0	375.8	362.8	355.3	346.0	342.3	339.1	336.8	335.4	338.1	334.9
25°	357.2	337.7	325.6	314.9	304.7	301.0	296.8	295.4	295.9	294.0	297.3
27.5°	321.4	297.3	284.3	272.2	264.8	258.3	255.0	254.1	252.2	257.3	254.5
30°	276.4	254.5	239.2	226.7	217.8	214.6	211.3	210.4	213.2	209.5	207.6
32.5°	230.9	207.2	194.2	183.5	177.0	170.5	169.5	167.7	164.4	168.6	167.7
35°	189.5	169.5	156.1	149.6	140.7	138.0	132.4	131.0	131.5	132.4	131.9
37.5°	164.4	150.5	138.4	129.6	123.1	119.4	117.5	115.7	115.7	114.7	114.3
40°	152.8	141.2	130.1	121.7	116.6	113.8	111.9	110.1	108.7	107.3	105.9
42.5°	151.0	137.0	124.5	116.1	111.5	110.5	110.1	108.7	106.8	104.5	102.7
45°	149.6	131.9	118.9	111.5	108.2	107.8	107.8	106.4	105.0	102.7	99.9
47.5°	144.9	125.4	112.9	107.3	105.9	106.4	105.9	104.5	103.6	101.3	98.0
50°	134.7	115.7	103.6	99.4	98.9	98.5	98.5	98.0	97.1	95.2	92.0
52.5°	125.9	106.8	97.1	94.3	93.4	93.4	92.4	92.0	90.1	88.7	86.4
55°	120.3	102.2	93.8	92.0	92.0	91.5	90.6	89.2	87.8	85.9	83.1
57.5°	115.2	98.5	91.5	90.1	90.6	90.1	89.2	88.3	86.4	84.1	80.8
60°	107.8	92.9	86.9	86.4	87.3	88.3	87.8	87.3	85.9	82.7	78.0
62.5°	97.1	83.6	79.0	79.9	80.8	81.8	81.3	80.8	79.4	76.6	72.5
65°	86.4	76.6	73.9	74.8	75.7	75.7	75.7	74.8	73.9	70.6	67.4
67.5°	76.2	70.1	69.2	70.1	70.6	70.6	71.1	70.1	68.7	66.4	63.2
70°	65.0	62.2	62.2	63.2	63.6	63.2	63.6	62.2	60.8	59.5	56.2
72.5°	58.1	58.1	57.6	57.6	57.6	56.7	56.2	55.3	53.9	52.5	49.7
75°	51.6	51.6	51.1	52.0	50.2	48.8	48.3	47.4	46.0	44.1	42.3
77.5°	44.1	43.2	43.2	44.6	44.1	42.3	40.9	40.4	38.6	36.7	35.8
80°	38.1	37.2	37.2	36.7	35.8	35.3	33.4	31.6	31.1	31.1	29.7
82.5°	33.4	33.0	31.6	30.7	29.3	27.9	26.5	25.5	24.2	23.7	24.2
85°	26.5	26.9	25.5	24.6	23.2	21.4	20.0	19.0	18.1	18.1	20.0
87.5°	15.3	14.4	14.4	13.9	13.5	12.1	12.1	10.7	10.2	13.0	13.5
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8
2.5°	474.7	474.7	473.3	474.2	473.8	474.2	476.1	474.2	473.8	475.2	476.6
5°	474.7	475.6	474.2	475.2	475.2	476.6	478.9	477.5	478.4	480.3	482.1
7.5°	472.9	474.2	474.2	476.1	477.5	479.8	483.1	482.1	484.0	486.8	489.1
10°	467.7	470.1	472.4	475.2	478.4	482.1	486.8	486.8	488.6	492.4	494.7
12.5°	455.2	461.2	464.0	470.5	475.6	481.2	486.3	489.6	491.0	494.2	497.0
15°	430.1	437.5	443.1	451.0	459.4	467.3	476.1	479.4	482.1	483.5	484.9
17.5°	401.3	406.4	410.1	420.4	429.7	437.1	445.4	449.6	452.9	452.9	453.8
20°	377.6	380.0	380.9	380.9	386.5	393.4	404.1	402.7	405.5	402.7	405.5
22.5°	340.9	337.2	339.1	339.1	342.8	341.4	345.6	352.5	351.6	353.5	361.4
25°	296.3	296.8	293.6	293.6	294.0	295.0	296.8	298.7	305.2	312.1	317.2
27.5°	254.1	253.1	250.8	249.0	247.1	250.4	252.7	252.2	261.5	267.1	276.4
30°	207.6	207.6	208.1	207.2	209.0	206.7	210.4	211.3	219.2	225.3	233.6
32.5°	169.1	170.0	170.0	169.5	172.8	170.5	172.3	174.6	179.8	184.9	189.0
35°	134.2	135.6	139.3	140.7	142.1	140.3	142.6	145.4	145.8	150.5	153.7
37.5°	113.8	116.1	116.6	117.5	117.5	118.9	119.4	121.2	121.2	122.6	123.6
40°	105.0	104.0	103.6	103.1	102.2	102.7	103.1	104.5	105.0	105.9	105.9
42.5°	100.8	99.4	97.1	95.7	93.8	93.8	93.8	93.8	95.2	96.1	96.1
45°	97.1	94.8	92.4	90.1	88.7	87.8	88.3	88.7	89.6	90.1	90.6
47.5°	94.8	91.5	87.8	85.5	84.1	83.1	83.6	84.1	84.1	84.5	85.0
50°	88.3	85.0	81.8	79.4	78.0	77.6	77.6	77.1	77.6	78.0	78.0
52.5°	83.1	79.9	77.1	74.8	73.4	73.4	72.9	72.0	72.5	72.0	72.5
55°	80.4	76.2	72.9	70.6	69.2	69.2	68.3	68.7	68.7	67.8	68.3
57.5°	77.1	72.9	70.1	67.4	65.5	65.5	65.0	65.5	66.0	64.6	64.6
60°	73.9	70.1	66.9	64.6	62.2	62.7	62.2	63.2	63.2	61.8	61.8
62.5°	67.8	64.6	62.7	61.3	59.5	59.9	59.9	61.3	59.9	59.0	58.5
65°	63.2	60.8	58.1	58.1	56.2	57.1	57.1	57.1	55.7	55.3	55.7
67.5°	59.9	57.1	55.3	53.4	52.0	52.5	51.6	51.6	51.1	50.6	51.6
70°	53.9	51.6	50.6	48.8	47.8	46.4	46.0	46.0	46.0	45.5	46.0
72.5°	47.8	46.0	45.1	43.2	42.3	41.3	40.9	40.4	39.9	40.4	40.4
75°	40.4	39.5	38.6	37.6	36.7	36.2	35.8	35.8	35.3	34.8	35.3
77.5°	34.8	33.4	33.0	32.0	32.5	31.1	30.7	31.1	31.1	31.1	31.6
80°	29.7	28.8	28.8	27.9	27.4	26.5	26.9	26.9	26.9	26.9	27.4
82.5°	26.0	25.1	25.1	24.6	23.2	22.3	22.8	23.7	23.7	23.2	24.2
85°	21.4	20.4	20.4	20.0	18.1	17.7	17.2	18.1	18.6	17.7	18.6
87.5°	13.9	13.0	12.5	12.5	10.7	7.4	9.8	10.7	10.7	8.8	10.2
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8
2.5°	476.1	477.0	477.0	478.0	479.8	478.0	477.0	478.4	478.4	478.0	478.0
5°	482.1	484.0	484.5	487.3	488.6	487.7	488.6	489.6	490.0	489.1	490.0
7.5°	490.0	492.4	494.7	497.9	500.7	500.3	501.6	503.5	504.0	504.0	504.9
10°	496.5	499.8	502.1	506.3	509.5	510.5	511.9	514.2	516.5	516.5	518.4
12.5°	497.9	501.6	504.0	507.7	513.3	515.1	518.4	523.9	526.3	528.1	529.5
15°	485.9	489.1	492.4	497.5	504.0	509.5	517.0	524.9	531.8	537.0	538.8
17.5°	454.3	454.7	458.0	465.4	478.9	484.9	494.2	510.5	520.2	529.5	538.3
20°	407.8	416.6	419.9	429.7	442.7	451.9	462.6	477.5	492.4	509.1	523.9
22.5°	366.9	378.6	387.8	399.5	410.1	420.8	434.3	447.3	463.6	479.8	497.5
25°	325.1	335.8	348.8	361.4	373.9	387.4	404.1	418.0	434.3	453.3	475.6
27.5°	284.7	295.9	310.3	325.1	335.4	353.5	367.4	387.8	406.4	427.3	452.4
30°	242.5	253.1	260.1	276.4	290.8	308.9	330.3	350.2	372.5	395.7	425.0
32.5°	196.5	203.0	212.7	223.9	240.6	259.7	281.9	303.3	334.0	362.8	390.6
35°	157.5	160.7	160.2	172.8	180.2	203.0	230.9	251.3	281.9	317.2	353.9
37.5°	124.0	123.6	126.3	128.2	137.5	152.4	174.2	200.7	236.0	274.0	310.7
40°	105.9	106.4	106.8	106.8	108.7	118.4	138.0	165.4	199.3	233.2	273.6
42.5°	97.5	98.5	98.9	99.9	100.8	104.0	118.0	143.5	172.3	208.6	244.8
45°	91.5	92.9	94.3	94.3	95.2	96.1	104.0	123.6	152.4	186.7	224.8
47.5°	86.4	87.8	88.7	89.2	90.1	91.0	95.2	108.7	136.6	167.7	207.2
50°	79.0	80.4	81.3	82.7	82.7	82.7	85.5	95.2	116.6	147.2	185.8
52.5°	72.9	73.9	75.2	76.2	76.6	77.1	78.5	84.1	100.3	129.1	165.4
55°	69.7	70.6	72.0	72.9	73.9	74.3	75.2	77.6	89.2	113.8	147.7
57.5°	65.5	66.9	68.7	69.7	70.6	71.1	71.5	72.5	80.4	98.9	126.8
60°	62.7	65.0	67.4	68.7	69.2	69.7	70.1	69.2	72.5	84.1	105.9
62.5°	59.5	61.8	63.6	65.5	66.0	66.4	66.9	65.5	65.0	70.6	82.7
65°	56.7	58.1	59.5	60.8	60.8	61.3	60.8	59.0	57.6	57.6	63.2
67.5°	53.0	53.9	55.3	55.7	55.7	55.7	55.3	54.8	52.5	51.6	52.5
70°	47.4	48.8	50.2	51.1	51.1	50.6	50.2	48.8	47.8	46.9	47.8
72.5°	42.3	44.1	44.6	45.1	44.6	44.6	44.6	43.7	44.1	44.1	44.6
75°	37.2	38.1	38.1	39.0	39.0	39.0	39.0	39.0	39.9	39.5	39.9
77.5°	31.6	32.0	33.0	33.0	33.0	33.4	34.4	34.4	35.3	35.8	35.8
80°	27.4	26.5	26.5	26.0	26.5	27.4	28.3	30.2	30.2	30.7	31.1
82.5°	21.8	20.0	19.0	20.0	20.0	20.4	22.3	24.2	24.2	25.5	26.0
85°	16.7	14.4	12.5	13.5	13.5	14.4	16.3	17.2	18.6	19.0	18.6
87.5°	9.8	8.4	5.6	4.6	5.6	7.0	7.4	8.4	7.0	7.9	8.4
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8
2.5°	478.9	478.9	476.6	476.6	477.0	478.0	475.6	475.2	475.6	475.2	474.7
5°	491.4	490.0	489.6	488.6	488.2	489.1	486.8	486.8	486.3	485.4	484.0
7.5°	505.4	504.4	503.5	502.6	501.6	502.1	499.8	499.3	498.9	498.4	497.0
10°	518.4	517.0	516.0	513.7	511.9	510.0	505.4	504.0	502.6	501.6	501.2
12.5°	529.1	527.7	524.4	520.2	517.4	512.8	509.1	505.8	504.4	503.0	503.5
15°	539.3	536.5	532.3	527.2	524.4	519.8	517.0	515.6	514.7	513.7	514.7
17.5°	542.5	543.5	541.1	539.7	537.9	536.0	536.5	537.9	540.7	540.7	540.7
20°	536.5	546.7	553.2	558.3	562.5	565.3	565.7	567.1	570.4	571.8	578.8
22.5°	522.1	548.6	570.4	588.0	599.2	602.9	607.1	611.7	612.2	613.6	620.1
25°	508.6	547.2	579.7	607.6	633.6	651.7	661.9	671.2	673.5	675.4	675.4
27.5°	484.9	527.7	569.5	606.6	642.4	672.6	696.3	720.4	737.1	743.2	752.0
30°	459.8	504.9	548.1	595.0	640.5	682.8	725.5	764.6	792.0	812.4	828.7
32.5°	428.3	477.0	526.3	577.4	631.7	684.7	741.8	798.5	850.5	891.4	916.4
35°	395.3	446.4	497.5	553.7	615.0	679.1	752.0	827.3	896.9	963.4	1020.5
37.5°	359.1	407.4	463.1	527.2	593.2	669.8	754.8	848.2	944.8	1040.0	1113.8
40°	317.7	364.6	418.5	485.9	565.7	652.1	753.4	864.4	985.6	1104.1	1223.0
42.5°	289.4	332.6	384.1	451.9	533.2	632.2	747.8	879.3	1022.8	1169.6	1319.2
45°	268.0	310.3	360.9	425.9	508.6	612.7	746.0	896.0	1061.8	1230.0	1404.6
47.5°	249.4	293.1	341.9	406.0	485.9	595.0	741.8	909.9	1094.3	1276.4	1478.9
50°	231.3	275.9	326.1	390.6	469.1	576.0	732.5	922.5	1125.0	1324.7	1540.3
52.5°	211.3	255.5	309.4	375.3	458.5	563.9	722.7	932.7	1154.7	1376.3	1603.9
55°	190.0	234.6	287.5	357.2	444.1	554.6	713.0	939.2	1185.8	1422.7	1661.0
57.5°	166.8	211.3	262.9	334.0	426.4	542.1	702.3	938.7	1208.6	1466.4	1722.8
60°	138.4	178.8	229.9	301.5	395.7	524.4	693.5	935.0	1224.9	1504.9	1791.5
62.5°	105.4	139.8	186.7	253.6	351.6	490.5	670.3	919.2	1226.7	1532.8	1848.7
65°	75.2	93.8	131.0	197.9	279.2	414.8	614.1	877.4	1196.1	1512.8	1853.8
67.5°	57.6	67.8	85.9	125.9	197.9	315.9	517.4	783.6	1100.8	1406.5	1768.3
70°	49.7	54.8	64.6	82.2	124.0	204.8	366.5	619.2	906.7	1210.0	1518.9
72.5°	46.0	49.2	55.3	64.1	79.0	120.8	225.7	416.2	666.1	922.5	1192.8
75°	42.3	45.5	50.2	55.7	63.2	80.8	123.1	244.8	411.1	609.4	801.7
77.5°	37.6	40.4	46.4	51.6	56.2	63.2	78.5	136.1	226.2	364.6	479.8
80°	31.6	34.4	39.0	46.9	51.6	56.2	61.3	83.6	124.9	188.6	246.2
82.5°	26.0	27.4	31.1	38.1	42.3	44.6	46.0	54.3	71.1	92.9	135.6
85°	18.1	18.1	20.9	24.6	27.9	26.0	26.5	27.9	36.7	51.6	104.0
87.5°	7.0	5.1	6.5	7.9	7.9	7.4	8.8	8.4	11.6	21.8	29.7
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	0°
2.5°	474.7	474.7	474.2	473.8	473.3	473.3	472.4	473.8	473.3	473.8	474.2	2.5°
5°	484.5	483.5	482.6	481.7	481.7	480.7	479.4	478.9	477.0	476.6	475.2	5°
7.5°	498.4	498.4	498.4	497.5	495.6	493.3	490.5	488.6	483.5	479.8	475.6	7.5°
10°	502.1	503.0	503.5	504.0	502.1	501.6	498.4	494.7	488.6	483.1	477.5	10°
12.5°	503.5	505.4	505.8	506.3	504.9	504.0	500.7	498.4	493.3	487.7	484.9	12.5°
15°	516.5	519.8	523.5	523.0	527.2	522.6	519.8	520.2	514.7	508.6	506.8	15°
17.5°	550.0	551.4	559.2	559.7	566.2	568.1	563.4	558.3	555.1	551.4	543.5	17.5°
20°	586.2	596.4	599.2	613.1	619.6	622.9	623.3	623.3	617.3	601.1	594.5	20°
22.5°	625.7	641.0	657.7	666.5	680.0	681.9	688.8	684.7	680.0	667.5	652.6	22.5°
25°	689.3	698.1	713.0	735.3	741.8	755.3	752.5	758.5	748.3	726.5	717.6	25°
27.5°	760.4	775.7	796.6	817.5	826.8	841.7	832.4	841.7	824.9	818.9	797.5	27.5°
30°	837.9	858.8	896.0	922.0	941.1	951.3	945.2	940.1	935.5	924.3	922.9	30°
32.5°	933.2	958.2	993.5	1027.5	1060.9	1095.7	1104.1	1111.5	1128.7	1094.8	1061.8	32.5°
35°	1050.7	1069.7	1109.2	1148.2	1194.2	1237.9	1309.9	1328.0	1304.8	1264.3	1211.4	35°
37.5°	1165.4	1208.6	1248.1	1294.5	1328.9	1379.1	1411.1	1446.9	1427.4	1389.8	1328.9	37.5°
40°	1306.1	1364.7	1418.6	1475.7	1514.7	1553.7	1614.1	1653.1	1649.4	1602.5	1520.3	40°
42.5°	1435.3	1528.2	1617.4	1660.1	1712.1	1782.7	1827.3	1889.5	1893.7	1839.4	1734.9	42.5°
45°	1570.4	1678.7	1787.4	1871.4	1915.6	2002.9	2105.1	2172.9	2193.8	2090.2	1983.4	45°
47.5°	1676.3	1845.0	1990.8	2080.5	2162.7	2252.8	2384.2	2482.2	2473.9	2334.1	2192.9	47.5°
50°	1769.2	1983.8	2160.3	2308.1	2406.5	2510.6	2683.8	2800.9	2760.0	2582.1	2405.6	50°
52.5°	1853.3	2105.1	2323.4	2506.4	2621.1	2769.8	2988.5	3090.7	2974.6	2802.7	2584.4	52.5°
55°	1930.4	2214.7	2468.3	2688.5	2865.4	3057.3	3262.6	3332.7	3167.4	2955.1	2754.4	55°
57.5°	2001.5	2316.4	2601.6	2865.9	3103.3	3332.3	3511.1	3515.7	3308.1	3072.6	2881.2	57.5°
60°	2087.0	2409.8	2741.0	3049.8	3339.2	3577.0	3681.6	3648.6	3398.7	3160.4	2968.6	60°
62.5°	2169.6	2493.8	2854.8	3226.8	3575.6	3783.3	3804.2	3734.5	3460.9	3201.3	3034.1	62.5°
65°	2210.5	2557.9	2918.4	3339.2	3760.5	3906.4	3880.8	3771.7	3486.0	3207.3	3050.8	65°
67.5°	2150.6	2498.0	2857.5	3290.4	3759.6	3898.5	3832.5	3700.6	3425.2	3125.1	2973.2	67.5°
70°	1930.0	2266.7	2559.8	2967.2	3494.8	3631.9	3532.9	3402.4	3172.0	2878.4	2809.2	70°
72.5°	1623.9	1873.8	2119.0	2420.0	2781.8	2901.7	2771.1	2836.2	2776.7	2492.5	2429.3	72.5°
75°	1218.8	1452.5	1548.1	1640.6	1890.5	1962.0	1911.8	2134.8	2195.6	2077.2	1916.0	75°
77.5°	797.5	1042.8	1060.4	1062.3	1164.5	1301.5	1483.1	1714.9	1830.1	1776.7	1581.1	77.5°
80°	465.0	734.8	657.3	632.2	722.7	875.6	1115.2	1405.5	1557.9	1569.0	1382.3	80°
82.5°	233.6	460.8	399.0	394.8	445.9	558.8	733.9	896.0	1094.3	1103.6	1128.2	82.5°
85°	181.6	316.8	324.2	351.6	387.4	434.3	447.3	476.1	586.7	688.8	715.3	85°
87.5°	94.3	233.2	275.0	320.0	315.9	258.7	218.3	235.5	274.0	288.9	375.3	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
473.8	473.8	473.8	473.8	473.8	473.8	473.8
473.3	474.2	473.8	474.2	474.7	474.7	474.2
472.9	472.4	470.5	469.6	469.6	468.7	468.2
470.1	466.8	462.2	459.4	457.5	456.1	453.8
470.5	465.0	458.9	454.7	450.6	447.8	445.0
476.6	469.6	464.0	457.5	454.3	450.6	447.3
497.5	488.2	481.7	475.6	471.9	469.1	466.3
530.9	519.8	509.1	503.5	497.0	492.4	491.9
576.0	559.7	545.8	533.2	527.2	519.8	518.4
627.1	603.4	588.5	574.6	566.2	557.4	557.9
692.1	668.4	644.2	629.8	617.8	619.2	617.8
770.1	751.5	723.7	706.0	702.3	687.9	677.2
891.8	864.0	830.0	798.5	778.5	754.8	732.5
1011.2	959.6	914.6	883.9	858.4	823.5	788.7
1129.2	1069.7	1027.9	1001.9	962.4	913.7	859.3
1269.5	1230.4	1200.7	1137.1	1080.9	1006.1	923.9
1472.0	1422.7	1351.7	1270.8	1189.6	1083.7	971.2
1673.6	1614.1	1514.7	1395.8	1279.2	1151.5	1008.4
1892.3	1777.6	1648.0	1504.0	1360.5	1202.1	1034.0
2064.7	1921.6	1760.0	1587.2	1425.1	1243.9	1056.3
2240.7	2067.9	1864.9	1670.3	1483.6	1277.8	1078.5
2379.1	2186.4	1972.2	1746.0	1537.9	1315.9	1109.2
2517.5	2304.3	2068.4	1821.7	1605.3	1368.9	1155.2
2632.7	2411.2	2161.3	1904.4	1683.3	1439.5	1230.4
2784.6	2561.2	2270.4	2002.4	1771.6	1535.6	1325.7
2929.1	2737.2	2422.3	2117.6	1879.3	1644.3	1433.9
3024.3	2936.0	2577.9	2233.3	1980.6	1746.0	1529.1
3026.2	3062.4	2741.9	2327.1	2075.3	1856.6	1607.1
2953.2	3080.0	2776.7	2335.5	2120.4	1905.8	1648.0
2701.0	2862.7	2568.2	2170.6	2036.8	1867.3	1603.0
2089.3	2206.3	2054.0	1839.8	1844.5	1745.6	1426.4
1446.4	1557.0	1428.8	1383.3	1485.0	1429.7	1065.1
1095.7	953.1	903.0	927.1	1053.9	1047.9	669.8
975.9	721.4	598.3	628.0	744.1	679.5	373.0
800.3	719.5	601.5	543.9	567.1	464.0	255.0
460.8	526.3	428.7	404.1	351.6	209.0	103.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)