

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: P141556

Luminaire Tested: **ECM-F02-LED-E1-SLR-7050**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P141556  
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-7050  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (14) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4431.1 lumens  
Efficiency: N/A  
Efficacy: 80.6 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

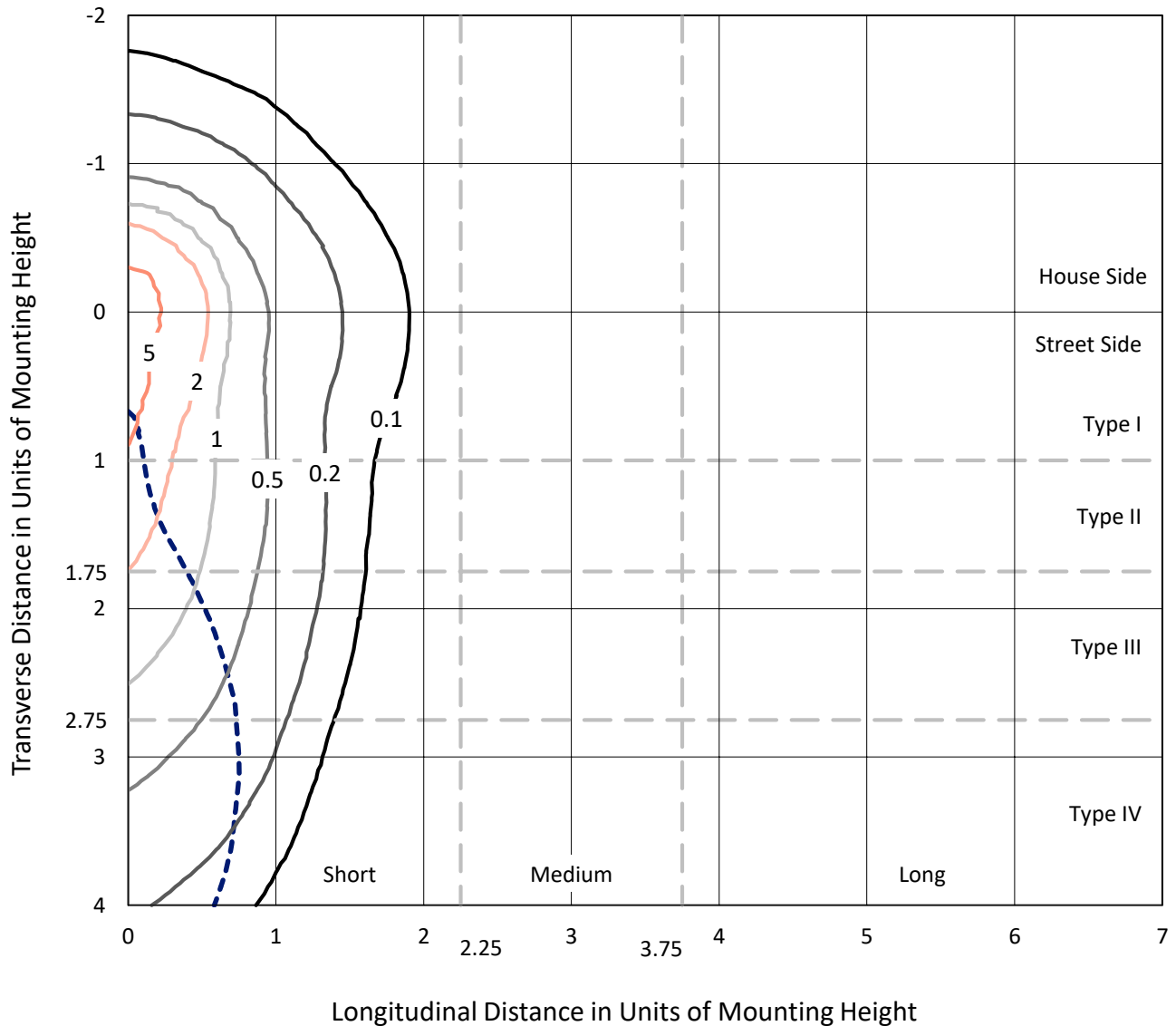
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

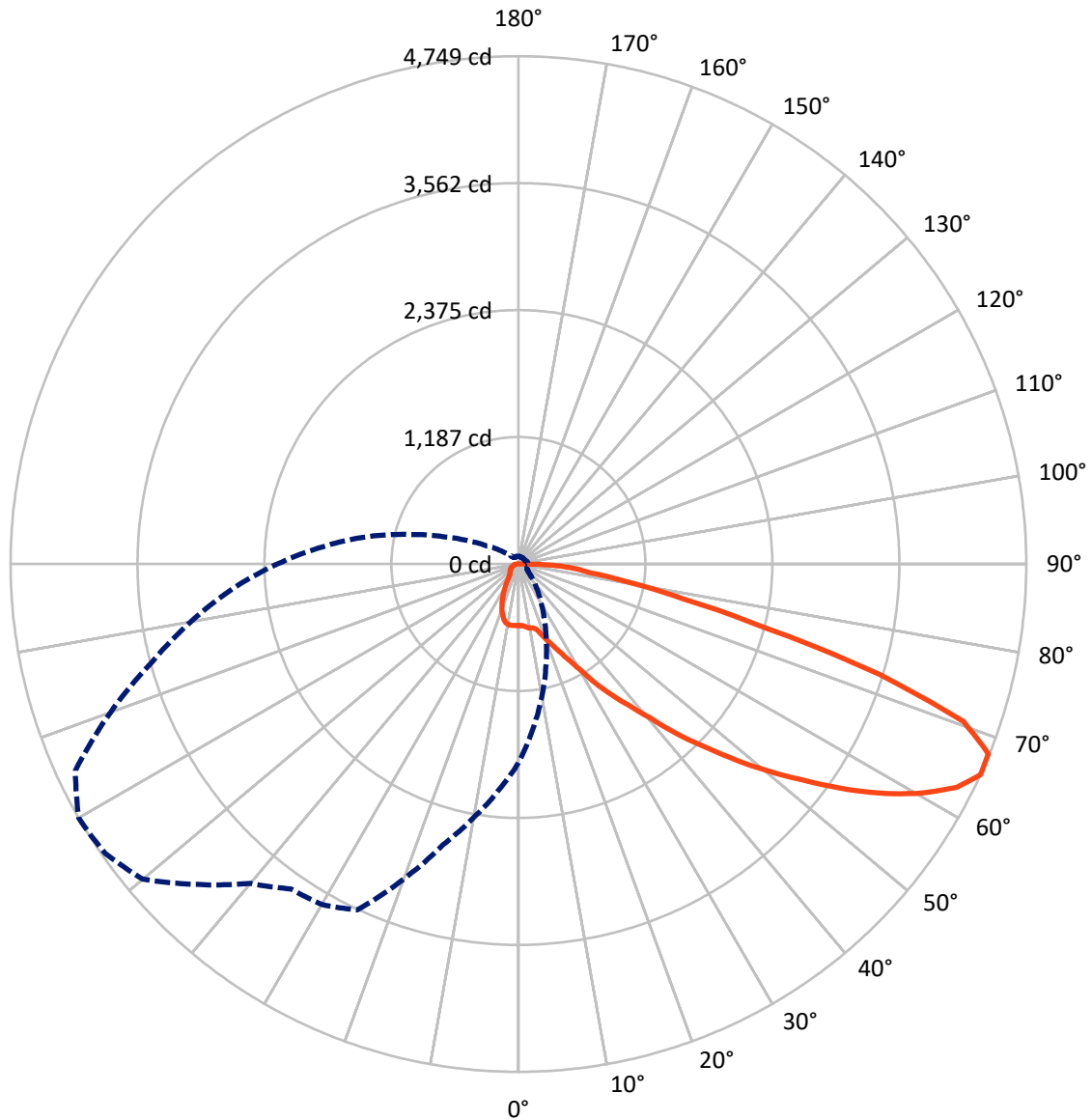
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 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
<b>House Side</b>	Lumens	821.9	0.0	821.9
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	3609.2	0.0	3609.2
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	4431.1	0.0	4431.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.7	1.3
10°-20°	167.4	3.8
20°-30°	278.1	6.3
30°-40°	406.5	9.2
40°-50°	618.4	14.0
50°-60°	888.8	20.1
60°-70°	1092.8	24.7
70°-80°	731.1	16.5
80°-90°	192.3	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°	4431.1	100.0
0°-180°	4431.1	100.0



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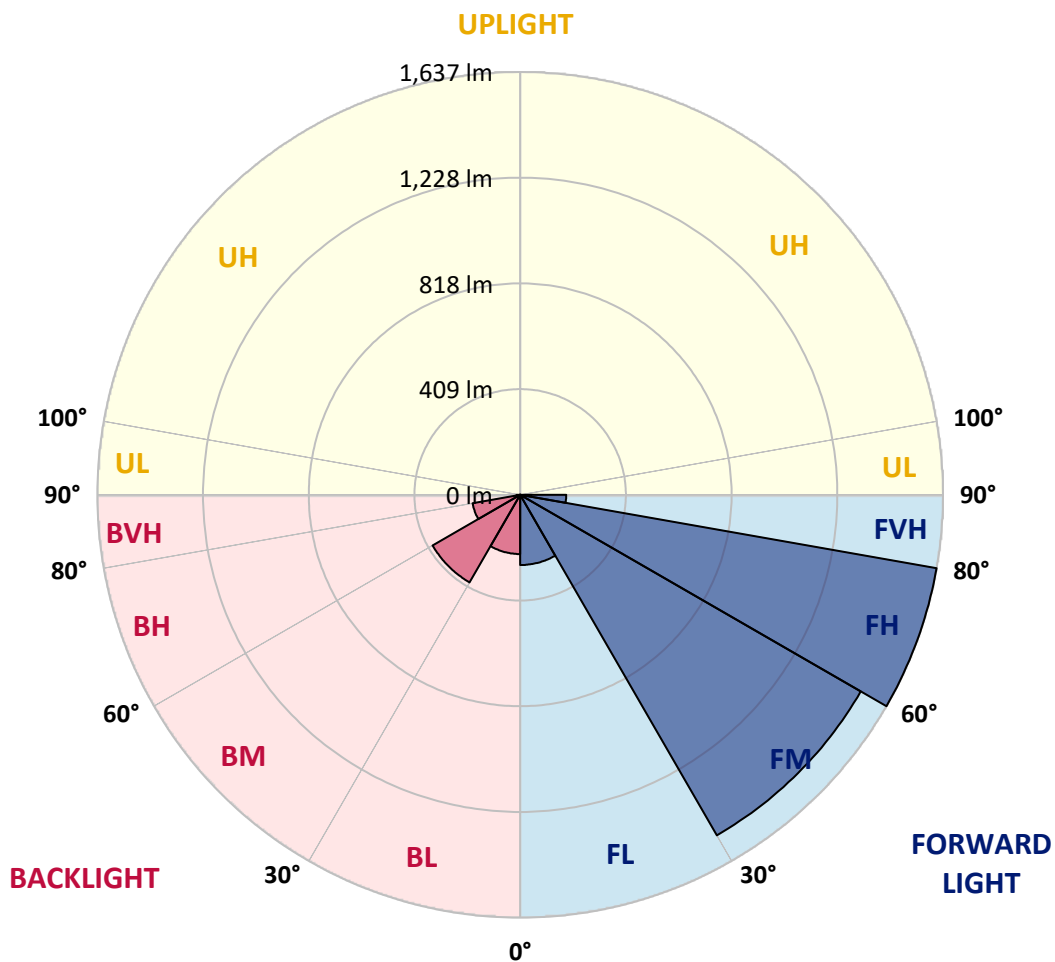
CATALOG NUMBER: ECM-F02-LED-E1-SLR-7050

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	271.8	6.1			
FM (30°-60°)	1522.2	34.4			
FH (60°-80°)	1636.8	36.9			G1/1800
FVH (80°-90°)	178.4	4.0			G2/225
BL (0°-30°)	229.4	5.2	B1/500		
BM (30°-60°)	391.5	8.8	B1/1000		
BH (60°-80°)	187.0	4.2	B1/500		G1/500
BVH (80°-90°)	14.0	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°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
2.5°	576.6	578.3	578.3	577.1	576.6	577.1	577.7	577.1	577.7	578.8	578.3
5°	569.2	570.4	570.9	570.9	570.9	572.1	573.8	573.2	574.9	576.0	576.0
7.5°	551.7	554.0	554.0	554.6	555.7	557.4	560.2	561.3	564.2	568.1	569.2
10°	541.0	541.6	539.9	539.3	540.4	543.8	545.5	548.3	552.9	557.4	561.9
12.5°	543.8	544.4	541.6	542.1	542.1	543.8	548.9	551.2	552.9	555.7	560.2
15°	567.0	567.0	563.6	564.7	565.3	567.5	567.5	563.6	562.5	559.6	557.4
17.5°	598.0	593.5	593.0	592.4	594.6	592.4	587.3	578.3	567.5	556.2	547.2
20°	630.2	630.8	627.4	626.8	620.6	612.7	598.0	580.0	560.8	543.3	525.2
22.5°	678.2	679.4	673.1	660.7	647.2	626.3	599.7	572.1	544.4	520.1	499.2
25°	751.1	739.2	725.1	699.1	664.7	628.0	591.3	556.8	520.7	488.5	461.9
27.5°	823.4	799.6	761.8	719.4	670.9	623.4	580.0	533.7	490.7	451.8	421.3
30°	890.6	846.5	792.3	731.9	669.8	608.8	553.4	500.9	450.1	408.3	372.1
32.5°	958.9	894.5	819.4	734.7	652.8	580.0	516.2	455.7	405.5	354.6	315.7
35°	1044.7	947.6	835.8	724.0	623.4	534.8	466.5	408.9	354.6	303.3	262.6
37.5°	1123.2	989.9	844.3	705.9	585.0	487.9	412.8	354.1	303.3	259.8	224.8
40°	1180.8	1017.6	843.1	682.7	546.1	439.9	365.9	312.9	267.1	232.7	205.6
42.5°	1226.0	1033.4	837.5	660.7	512.2	404.9	335.4	286.9	250.7	223.1	202.2
45°	1257.1	1044.7	834.1	643.2	489.6	388.0	325.3	284.6	254.1	229.3	205.6
47.5°	1284.2	1057.7	833.0	635.3	484.5	393.0	338.8	302.1	268.8	236.6	205.0
50°	1311.3	1070.7	843.1	648.3	503.7	421.3	370.5	323.6	277.8	234.4	195.4
52.5°	1348.5	1108.5	881.0	685.6	545.5	460.8	400.4	341.1	279.5	228.7	186.4
55°	1404.5	1167.3	935.2	734.7	590.7	503.7	424.7	347.9	277.8	222.5	177.9
57.5°	1495.9	1253.7	1009.1	803.0	649.4	537.0	438.2	350.7	273.9	215.7	171.1
60°	1611.7	1352.5	1102.3	874.7	699.7	560.2	443.9	349.6	268.2	207.8	161.5
62.5°	1743.3	1460.9	1186.5	940.3	735.8	570.9	441.6	340.5	255.3	191.4	148.0
65°	1859.0	1547.3	1257.1	992.8	758.4	570.9	427.5	319.6	232.1	168.3	130.4
67.5°	1953.9	1620.2	1311.3	1023.3	760.7	551.2	393.6	281.8	195.4	139.5	110.1
70°	2003.6	1643.3	1328.2	1019.9	722.8	494.1	331.5	219.1	143.4	108.4	88.7
72.5°	1948.8	1588.5	1255.9	921.6	603.1	368.8	232.1	149.1	102.8	84.1	73.4
75°	1734.2	1348.0	1045.3	712.7	432.0	229.8	144.0	104.5	81.3	70.0	64.4
77.5°	1294.9	1004.6	719.4	451.2	247.3	139.5	101.1	79.6	68.3	61.6	56.5
80°	814.3	618.9	432.6	248.5	141.2	102.8	84.1	71.2	62.1	53.6	48.6
82.5°	453.5	329.8	220.2	141.7	98.3	83.0	72.8	65.5	55.3	46.9	41.8
85°	310.0	203.9	138.9	93.2	67.8	60.4	54.2	49.7	42.4	35.6	32.8
87.5°	125.9	117.5	85.3	37.3	27.7	24.8	22.0	27.1	22.6	17.5	16.4
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
2.5°	579.4	578.3	578.8	578.3	577.7	577.1	576.6	577.1	576.0	576.6	576.6
5°	577.7	576.6	578.3	577.7	576.6	576.6	576.0	576.0	576.0	576.0	576.6
7.5°	572.6	572.6	574.3	574.3	573.2	573.2	572.1	571.5	571.5	572.1	573.2
10°	565.8	567.5	570.4	569.2	567.0	565.8	564.2	563.0	562.5	563.6	564.7
12.5°	560.8	561.9	560.2	558.5	555.1	551.2	550.6	547.8	546.1	548.9	548.9
15°	552.3	547.8	541.6	535.9	528.0	524.1	519.5	518.4	514.5	515.0	517.8
17.5°	534.2	522.4	512.8	507.1	500.3	497.5	492.4	489.6	486.8	484.0	485.7
20°	508.8	495.8	483.4	476.1	465.3	463.1	454.6	454.6	451.2	451.8	455.2
22.5°	476.6	456.9	441.0	432.0	420.7	416.2	412.2	409.4	407.7	411.1	407.2
25°	434.3	410.5	395.9	382.9	370.5	365.9	360.9	359.2	359.7	357.5	361.4
27.5°	390.8	361.4	345.6	330.9	321.9	314.0	310.0	308.9	306.6	312.9	309.5
30°	336.0	309.5	290.8	275.6	264.9	260.9	256.9	255.8	259.2	254.7	252.4
32.5°	280.7	251.9	236.1	223.1	215.2	207.3	206.1	203.9	199.9	205.0	203.9
35°	230.4	206.1	189.7	181.8	171.1	167.7	160.9	159.3	159.8	160.9	160.4
37.5°	199.9	183.0	168.3	157.6	149.7	145.1	142.9	140.6	140.6	139.5	138.9
40°	185.8	171.7	158.1	148.0	141.7	138.4	136.1	133.8	132.1	130.4	128.8
42.5°	183.5	166.6	151.3	141.2	135.5	134.4	133.8	132.1	129.9	127.1	124.8
45°	181.8	160.4	144.6	135.5	131.6	131.0	131.0	129.3	127.6	124.8	121.4
47.5°	176.2	152.5	137.2	130.4	128.8	129.3	128.8	127.1	125.9	123.1	119.2
50°	163.8	140.6	125.9	120.8	120.3	119.7	119.7	119.2	118.0	115.8	111.8
52.5°	153.0	129.9	118.0	114.6	113.5	113.5	112.4	111.8	109.6	107.9	105.0
55°	146.3	124.2	114.1	111.8	111.8	111.2	110.1	108.4	106.7	104.5	101.1
57.5°	140.0	119.7	111.2	109.6	110.1	109.6	108.4	107.3	105.0	102.2	98.3
60°	131.0	112.9	105.6	105.0	106.2	107.3	106.7	106.2	104.5	100.5	94.9
62.5°	118.0	101.6	96.0	97.1	98.3	99.4	98.8	98.3	96.6	93.2	88.1
65°	105.0	93.2	89.8	90.9	92.0	92.0	92.0	90.9	89.8	85.8	81.9
67.5°	92.6	85.3	84.1	85.3	85.8	85.8	86.4	85.3	83.6	80.8	76.8
70°	79.1	75.7	75.7	76.8	77.4	76.8	77.4	75.7	74.0	72.3	68.3
72.5°	70.6	70.6	70.0	70.0	70.0	68.9	68.3	67.2	65.5	63.8	60.4
75°	62.7	62.7	62.1	63.2	61.0	59.3	58.7	57.6	55.9	53.6	51.4
77.5°	53.6	52.5	52.5	54.2	53.6	51.4	49.7	49.1	46.9	44.6	43.5
80°	46.3	45.2	45.2	44.6	43.5	42.9	40.7	38.4	37.8	37.8	36.1
82.5°	40.7	40.1	38.4	37.3	35.6	33.9	32.2	31.1	29.4	28.8	29.4
85°	32.2	32.8	31.1	29.9	28.2	26.0	24.3	23.2	22.0	22.0	24.3
87.5°	18.6	17.5	17.5	16.9	16.4	14.7	14.7	13.0	12.4	15.8	16.4
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°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
2.5°	577.1	577.1	575.4	576.6	576.0	576.6	578.8	576.6	576.0	577.7	579.4
5°	577.1	578.3	576.6	577.7	577.7	579.4	582.2	580.5	581.7	583.9	586.2
7.5°	574.9	576.6	576.6	578.8	580.5	583.4	587.3	586.2	588.4	591.8	594.6
10°	568.7	571.5	574.3	577.7	581.7	586.2	591.8	591.8	594.1	598.6	601.4
12.5°	553.4	560.8	564.2	572.1	578.3	585.0	591.3	595.2	596.9	600.9	604.2
15°	522.9	532.0	538.7	548.3	558.5	568.1	578.8	582.8	586.2	587.9	589.6
17.5°	487.9	494.1	498.6	511.1	522.4	531.4	541.6	546.6	550.6	550.6	551.7
20°	459.1	461.9	463.1	463.1	469.8	478.3	491.3	489.6	493.0	489.6	493.0
22.5°	414.5	410.0	412.2	412.2	416.8	415.1	420.1	428.6	427.5	429.7	439.3
25°	360.3	360.9	356.9	356.9	357.5	358.6	360.9	363.1	371.0	379.5	385.7
27.5°	308.9	307.8	304.9	302.7	300.4	304.4	307.2	306.6	317.9	324.7	336.0
30°	252.4	252.4	253.0	251.9	254.1	251.3	255.8	256.9	266.5	273.9	284.1
32.5°	205.6	206.7	206.7	206.1	210.1	207.3	209.5	212.3	218.5	224.8	229.8
35°	163.2	164.9	169.4	171.1	172.8	170.5	173.4	176.8	177.3	183.0	186.9
37.5°	138.4	141.2	141.7	142.9	142.9	144.6	145.1	147.4	147.4	149.1	150.2
40°	127.6	126.5	125.9	125.4	124.2	124.8	125.4	127.1	127.6	128.8	128.8
42.5°	122.5	120.8	118.0	116.3	114.1	114.1	114.1	114.1	115.8	116.9	116.9
45°	118.0	115.2	112.4	109.6	107.9	106.7	107.3	107.9	109.0	109.6	110.1
47.5°	115.2	111.2	106.7	103.9	102.2	101.1	101.6	102.2	102.2	102.8	103.3
50°	107.3	103.3	99.4	96.6	94.9	94.3	94.3	93.7	94.3	94.9	94.9
52.5°	101.1	97.1	93.7	90.9	89.2	89.2	88.7	87.5	88.1	87.5	88.1
55°	97.7	92.6	88.7	85.8	84.1	84.1	83.0	83.6	83.6	82.4	83.0
57.5°	93.7	88.7	85.3	81.9	79.6	79.6	79.1	79.6	80.2	78.5	78.5
60°	89.8	85.3	81.3	78.5	75.7	76.2	75.7	76.8	76.8	75.1	75.1
62.5°	82.4	78.5	76.2	74.5	72.3	72.8	72.8	74.5	72.8	71.7	71.2
65°	76.8	74.0	70.6	70.6	68.3	69.5	69.5	69.5	67.8	67.2	67.8
67.5°	72.8	69.5	67.2	64.9	63.2	63.8	62.7	62.7	62.1	61.6	62.7
70°	65.5	62.7	61.6	59.3	58.2	56.5	55.9	55.9	55.9	55.3	55.9
72.5°	58.2	55.9	54.8	52.5	51.4	50.3	49.7	49.1	48.6	49.1	49.1
75°	49.1	48.0	46.9	45.7	44.6	44.0	43.5	43.5	42.9	42.4	42.9
77.5°	42.4	40.7	40.1	39.0	39.5	37.8	37.3	37.8	37.8	37.8	38.4
80°	36.1	35.0	35.0	33.9	33.3	32.2	32.8	32.8	32.8	32.8	33.3
82.5°	31.6	30.5	30.5	29.9	28.2	27.1	27.7	28.8	28.8	28.2	29.4
85°	26.0	24.8	24.8	24.3	22.0	21.5	20.9	22.0	22.6	21.5	22.6
87.5°	16.9	15.8	15.2	15.2	13.0	9.0	11.9	13.0	13.0	10.7	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):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
2.5°	578.8	580.0	580.0	581.1	583.4	581.1	580.0	581.7	581.7	581.1	581.1
5°	586.2	588.4	589.0	592.4	594.1	593.0	594.1	595.2	595.8	594.6	595.8
7.5°	595.8	598.6	601.4	605.4	608.8	608.2	609.9	612.2	612.7	612.7	613.8
10°	603.7	607.6	610.5	615.5	619.5	620.6	622.3	625.1	628.0	628.0	630.2
12.5°	605.4	609.9	612.7	617.2	624.0	626.3	630.2	637.0	639.8	642.1	643.8
15°	590.7	594.6	598.6	604.8	612.7	619.5	628.5	638.1	646.6	652.8	655.1
17.5°	552.3	552.9	556.8	565.8	582.2	589.6	600.9	620.6	632.5	643.8	654.5
20°	495.8	506.6	510.5	522.4	538.2	549.5	562.5	580.5	598.6	618.9	637.0
22.5°	446.1	460.2	471.5	485.7	498.6	511.6	528.0	543.8	563.6	583.4	604.8
25°	395.3	408.3	424.1	439.3	454.6	471.0	491.3	508.2	528.0	551.2	578.3
27.5°	346.2	359.7	377.2	395.3	407.7	429.7	446.7	471.5	494.1	519.5	550.0
30°	294.8	307.8	316.2	336.0	353.5	375.5	401.5	425.8	452.9	481.1	516.7
32.5°	238.9	246.8	258.6	272.2	292.5	315.7	342.8	368.8	406.0	441.0	474.9
35°	191.4	195.4	194.8	210.1	219.1	246.8	280.7	305.5	342.8	385.7	430.3
37.5°	150.8	150.2	153.6	155.9	167.2	185.2	211.8	244.0	286.9	333.2	377.8
40°	128.8	129.3	129.9	129.9	132.1	144.0	167.7	201.0	242.3	283.5	332.6
42.5°	118.6	119.7	120.3	121.4	122.5	126.5	143.4	174.5	209.5	253.6	297.6
45°	111.2	112.9	114.6	114.6	115.8	116.9	126.5	150.2	185.2	227.0	273.3
47.5°	105.0	106.7	107.9	108.4	109.6	110.7	115.8	132.1	166.0	203.9	251.9
50°	96.0	97.7	98.8	100.5	100.5	100.5	103.9	115.8	141.7	179.0	225.9
52.5°	88.7	89.8	91.5	92.6	93.2	93.7	95.4	102.2	122.0	157.0	201.0
55°	84.7	85.8	87.5	88.7	89.8	90.4	91.5	94.3	108.4	138.4	179.6
57.5°	79.6	81.3	83.6	84.7	85.8	86.4	87.0	88.1	97.7	120.3	154.2
60°	76.2	79.1	81.9	83.6	84.1	84.7	85.3	84.1	88.1	102.2	128.8
62.5°	72.3	75.1	77.4	79.6	80.2	80.8	81.3	79.6	79.1	85.8	100.5
65°	68.9	70.6	72.3	74.0	74.0	74.5	74.0	71.7	70.0	70.0	76.8
67.5°	64.4	65.5	67.2	67.8	67.8	67.8	67.2	66.6	63.8	62.7	63.8
70°	57.6	59.3	61.0	62.1	62.1	61.6	61.0	59.3	58.2	57.0	58.2
72.5°	51.4	53.6	54.2	54.8	54.2	54.2	54.2	53.1	53.6	53.6	54.2
75°	45.2	46.3	46.3	47.4	47.4	47.4	47.4	47.4	48.6	48.0	48.6
77.5°	38.4	39.0	40.1	40.1	40.1	40.7	41.8	41.8	42.9	43.5	43.5
80°	33.3	32.2	32.2	31.6	32.2	33.3	34.4	36.7	36.7	37.3	37.8
82.5°	26.5	24.3	23.2	24.3	24.3	24.8	27.1	29.4	29.4	31.1	31.6
85°	20.3	17.5	15.2	16.4	16.4	17.5	19.8	20.9	22.6	23.2	22.6
87.5°	11.9	10.2	6.8	5.6	6.8	8.5	9.0	10.2	8.5	9.6	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):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
2.5°	582.2	582.2	579.4	579.4	580.0	581.1	578.3	577.7	578.3	577.7	577.1
5°	597.5	595.8	595.2	594.1	593.5	594.6	591.8	591.8	591.3	590.1	588.4
7.5°	614.4	613.3	612.2	611.0	609.9	610.5	607.6	607.1	606.5	605.9	604.2
10°	630.2	628.5	627.4	624.6	622.3	620.1	614.4	612.7	611.0	609.9	609.3
12.5°	643.2	641.5	637.6	632.5	629.1	623.4	618.9	615.0	613.3	611.6	612.2
15°	655.6	652.2	647.2	641.0	637.6	631.9	628.5	626.8	625.7	624.6	625.7
17.5°	659.6	660.7	657.9	656.2	653.9	651.7	652.2	653.9	657.3	657.3	657.3
20°	652.2	664.7	672.6	678.8	683.9	687.3	687.8	689.5	693.5	695.2	703.6
22.5°	634.7	666.9	693.5	714.9	728.5	733.0	738.1	743.7	744.3	746.0	753.9
25°	618.4	665.2	704.8	738.6	770.3	792.3	804.7	816.0	818.8	821.1	821.1
27.5°	589.6	641.5	692.3	737.5	781.0	817.7	846.5	875.9	896.2	903.5	914.3
30°	559.1	613.8	666.4	723.4	778.7	830.1	882.1	929.5	962.8	987.7	1007.5
32.5°	520.7	580.0	639.8	701.9	768.0	832.4	901.9	970.7	1034.0	1083.7	1114.2
35°	480.6	542.7	604.8	673.1	747.7	825.6	914.3	1005.8	1090.5	1171.2	1240.7
37.5°	436.5	495.3	563.0	641.0	721.1	814.3	917.7	1031.2	1148.6	1264.4	1354.2
40°	386.3	443.3	508.8	590.7	687.8	792.9	916.0	1050.9	1198.3	1342.3	1486.9
42.5°	351.8	404.3	467.0	549.5	648.3	768.6	909.2	1069.0	1243.5	1422.0	1603.8
45°	325.8	377.2	438.8	517.8	618.4	744.9	906.9	1089.3	1290.9	1495.4	1707.7
47.5°	303.3	356.3	415.6	493.6	590.7	723.4	901.9	1106.3	1330.5	1551.8	1798.1
50°	281.2	335.4	396.4	474.9	570.4	700.2	890.6	1121.5	1367.7	1610.6	1872.6
52.5°	256.9	310.6	376.1	456.3	557.4	685.6	878.7	1134.0	1403.9	1673.3	1950.0
55°	231.0	285.2	349.6	434.3	539.9	674.3	866.8	1141.9	1441.7	1729.7	2019.4
57.5°	202.7	256.9	319.6	406.0	518.4	659.0	853.9	1141.3	1469.4	1782.8	2094.5
60°	168.3	217.4	279.5	366.5	481.1	637.6	843.1	1136.8	1489.2	1829.7	2178.1
62.5°	128.2	170.0	227.0	308.3	427.5	596.3	814.9	1117.6	1491.4	1863.6	2247.6
65°	91.5	114.1	159.3	240.6	339.4	504.3	746.6	1066.8	1454.1	1839.3	2253.8
67.5°	70.0	82.4	104.5	153.0	240.6	384.0	629.1	952.7	1338.4	1710.0	2149.9
70°	60.4	66.6	78.5	100.0	150.8	249.0	445.6	752.8	1102.3	1471.1	1846.6
72.5°	55.9	59.9	67.2	77.9	96.0	146.8	274.5	506.0	809.8	1121.5	1450.2
75°	51.4	55.3	61.0	67.8	76.8	98.3	149.7	297.6	499.8	740.9	974.7
77.5°	45.7	49.1	56.5	62.7	68.3	76.8	95.4	165.5	275.0	443.3	583.4
80°	38.4	41.8	47.4	57.0	62.7	68.3	74.5	101.6	151.9	229.3	299.3
82.5°	31.6	33.3	37.8	46.3	51.4	54.2	55.9	66.1	86.4	112.9	164.9
85°	22.0	22.0	25.4	29.9	33.9	31.6	32.2	33.9	44.6	62.7	126.5
87.5°	8.5	6.2	7.9	9.6	9.6	9.0	10.7	10.2	14.1	26.5	36.1
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°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	0°
2.5°	577.1	577.1	576.6	576.0	575.4	575.4	574.3	576.0	575.4	576.0	576.6	2.5°
5°	589.0	587.9	586.7	585.6	585.6	584.5	582.8	582.2	580.0	579.4	577.7	5°
7.5°	605.9	605.9	605.9	604.8	602.6	599.7	596.3	594.1	587.9	583.4	578.3	7.5°
10°	610.5	611.6	612.2	612.7	610.5	609.9	605.9	601.4	594.1	587.3	580.5	10°
12.5°	612.2	614.4	615.0	615.5	613.8	612.7	608.8	605.9	599.7	593.0	589.6	12.5°
15°	628.0	631.9	636.4	635.9	641.0	635.3	631.9	632.5	625.7	618.4	616.1	15°
17.5°	668.6	670.3	679.9	680.5	688.4	690.6	685.0	678.8	674.8	670.3	660.7	17.5°
20°	712.7	725.1	728.5	745.4	753.3	757.3	757.9	757.9	750.5	730.7	722.8	20°
22.5°	760.7	779.3	799.6	810.4	826.7	829.0	837.5	832.4	826.7	811.5	793.4	22.5°
25°	838.0	848.8	866.8	893.9	901.9	918.2	914.8	922.2	909.8	883.2	872.5	25°
27.5°	924.4	943.1	968.5	993.9	1005.2	1023.3	1012.0	1023.3	1002.9	995.6	969.6	27.5°
30°	1018.7	1044.2	1089.3	1121.0	1144.1	1156.5	1149.2	1143.0	1137.3	1123.8	1122.1	30°
32.5°	1134.5	1165.0	1207.9	1249.2	1289.8	1332.2	1342.3	1351.4	1372.3	1331.0	1290.9	32.5°
35°	1277.4	1300.5	1348.5	1396.0	1451.9	1505.0	1592.5	1614.5	1586.3	1537.2	1472.8	35°
37.5°	1416.9	1469.4	1517.4	1573.9	1615.7	1676.6	1715.6	1759.1	1735.4	1689.6	1615.7	37.5°
40°	1588.0	1659.1	1724.6	1794.1	1841.5	1889.0	1962.4	2009.8	2005.3	1948.3	1848.3	40°
42.5°	1745.0	1857.9	1966.3	2018.3	2081.5	2167.4	2221.6	2297.3	2302.4	2236.3	2109.2	42.5°
45°	1909.3	2040.9	2173.0	2275.2	2328.9	2435.1	2559.3	2641.7	2667.2	2541.2	2411.3	45°
47.5°	2038.1	2243.1	2420.4	2529.4	2629.3	2738.9	2898.7	3017.8	3007.7	2837.7	2666.0	47.5°
50°	2151.0	2411.9	2626.5	2806.1	2925.8	3052.3	3262.9	3405.2	3355.5	3139.3	2924.7	50°
52.5°	2253.2	2559.3	2824.7	3047.2	3186.7	3367.4	3633.4	3757.6	3616.4	3407.5	3142.1	52.5°
55°	2347.0	2692.6	3000.9	3268.6	3483.7	3717.0	3966.6	4051.8	3850.8	3592.7	3348.8	55°
57.5°	2433.4	2816.2	3163.0	3484.3	3772.9	4051.3	4268.7	4274.3	4021.9	3735.6	3502.9	57.5°
60°	2537.3	2929.8	3332.4	3707.9	4059.8	4348.9	4475.9	4435.9	4132.0	3842.3	3609.1	60°
62.5°	2637.8	3032.0	3470.8	3923.1	4347.2	4599.6	4625.0	4540.3	4207.7	3892.0	3688.7	62.5°
65°	2687.5	3109.9	3548.1	4059.8	4571.9	4749.3	4718.2	4585.5	4238.2	3899.4	3709.1	65°
67.5°	2614.6	3037.0	3474.1	4000.5	4570.8	4739.7	4659.5	4499.1	4164.2	3799.4	3614.8	67.5°
70°	2346.4	2755.8	3112.2	3607.4	4248.9	4415.5	4295.2	4136.6	3856.5	3499.6	3415.4	70°
72.5°	1974.3	2278.1	2576.2	2942.2	3382.1	3527.8	3369.1	3448.2	3375.9	3030.3	2953.5	72.5°
75°	1481.8	1765.9	1882.2	1994.6	2298.4	2385.4	2324.4	2595.4	2669.4	2525.4	2329.5	75°
77.5°	969.6	1267.8	1289.2	1291.5	1415.7	1582.3	1803.1	2084.9	2225.0	2160.0	1922.3	77.5°
80°	565.3	893.4	799.1	768.6	878.7	1064.5	1355.9	1708.8	1894.1	1907.6	1680.6	80°
82.5°	284.1	560.2	485.1	480.0	542.1	679.4	892.3	1089.3	1330.5	1341.8	1371.7	82.5°
85°	220.8	385.1	394.2	427.5	471.0	528.0	543.8	578.8	713.2	837.5	869.7	85°
87.5°	114.6	283.5	334.3	389.1	384.0	314.5	265.4	286.3	333.2	351.3	456.3	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°
576.0	576.0	576.0	576.0	576.0	576.0	576.0
575.4	576.6	576.0	576.6	577.1	577.1	576.6
574.9	574.3	572.1	570.9	570.9	569.8	569.2
571.5	567.5	561.9	558.5	556.2	554.6	551.7
572.1	565.3	557.9	552.9	547.8	544.4	541.0
579.4	570.9	564.2	556.2	552.3	547.8	543.8
604.8	593.5	585.6	578.3	573.8	570.4	567.0
645.5	631.9	618.9	612.2	604.2	598.6	598.0
700.2	680.5	663.5	648.3	641.0	631.9	630.2
762.4	733.6	715.5	698.6	688.4	677.7	678.2
841.4	812.6	783.3	765.8	751.1	752.8	751.1
936.3	913.7	879.8	858.4	853.9	836.3	823.4
1084.3	1050.4	1009.1	970.7	946.5	917.7	890.6
1229.4	1166.7	1111.9	1074.7	1043.6	1001.2	958.9
1372.8	1300.5	1249.7	1218.1	1170.1	1110.8	1044.7
1543.4	1495.9	1459.8	1382.4	1314.1	1223.2	1123.2
1789.6	1729.7	1643.3	1545.1	1446.2	1317.5	1180.8
2034.7	1962.4	1841.5	1697.0	1555.2	1399.9	1226.0
2300.7	2161.2	2003.6	1828.6	1654.1	1461.5	1257.1
2510.2	2336.2	2139.7	1929.6	1732.6	1512.3	1284.2
2724.2	2514.1	2267.3	2030.7	1803.7	1553.5	1311.3
2892.5	2658.1	2397.8	2122.8	1869.8	1599.8	1348.5
3060.8	2801.6	2514.7	2214.8	1951.7	1664.2	1404.5
3200.8	2931.4	2627.6	2315.3	2046.5	1750.1	1495.9
3385.5	3113.8	2760.3	2434.5	2153.8	1867.0	1611.7
3561.1	3327.9	2945.0	2574.5	2284.8	1999.1	1743.3
3676.9	3569.6	3134.2	2715.2	2408.0	2122.8	1859.0
3679.1	3723.2	3333.5	2829.2	2523.2	2257.2	1953.9
3590.5	3744.6	3375.9	2839.4	2577.9	2317.0	2003.6
3283.8	3480.4	3122.3	2638.9	2476.3	2270.2	1948.8
2540.1	2682.4	2497.2	2236.8	2242.5	2122.2	1734.2
1758.5	1892.9	1737.1	1681.7	1805.4	1738.2	1294.9
1332.2	1158.8	1097.8	1127.2	1281.3	1274.0	814.3
1186.5	877.0	727.4	763.5	904.7	826.2	453.5
973.0	874.7	731.3	661.3	689.5	564.2	310.0
560.2	639.8	521.2	491.3	427.5	254.1	125.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)