

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: P141573

Luminaire Tested: **ECM-F04-LED-E1-SLR-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P141573
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-F04-LED-E1-SLR-8030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7289.3 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

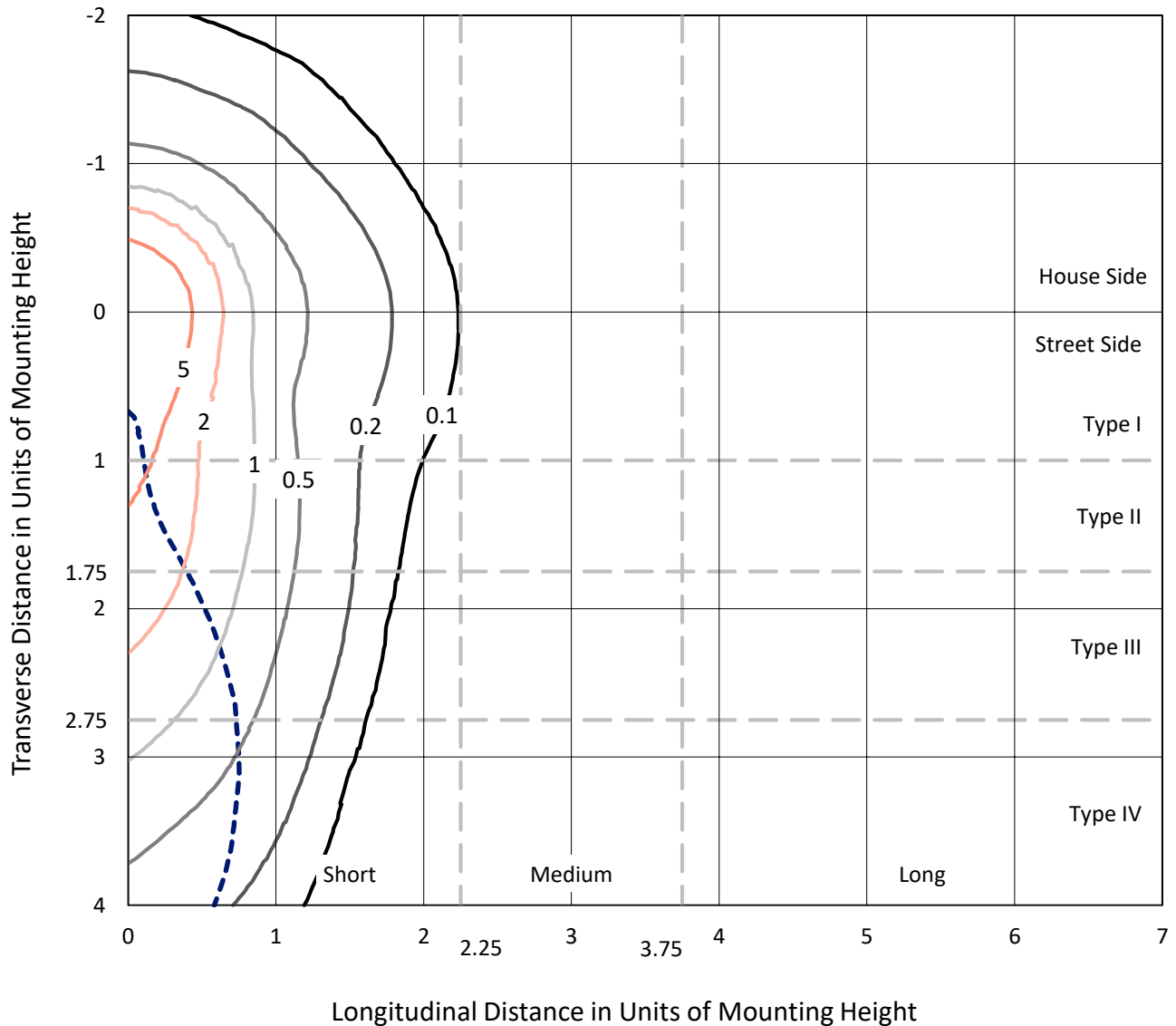
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

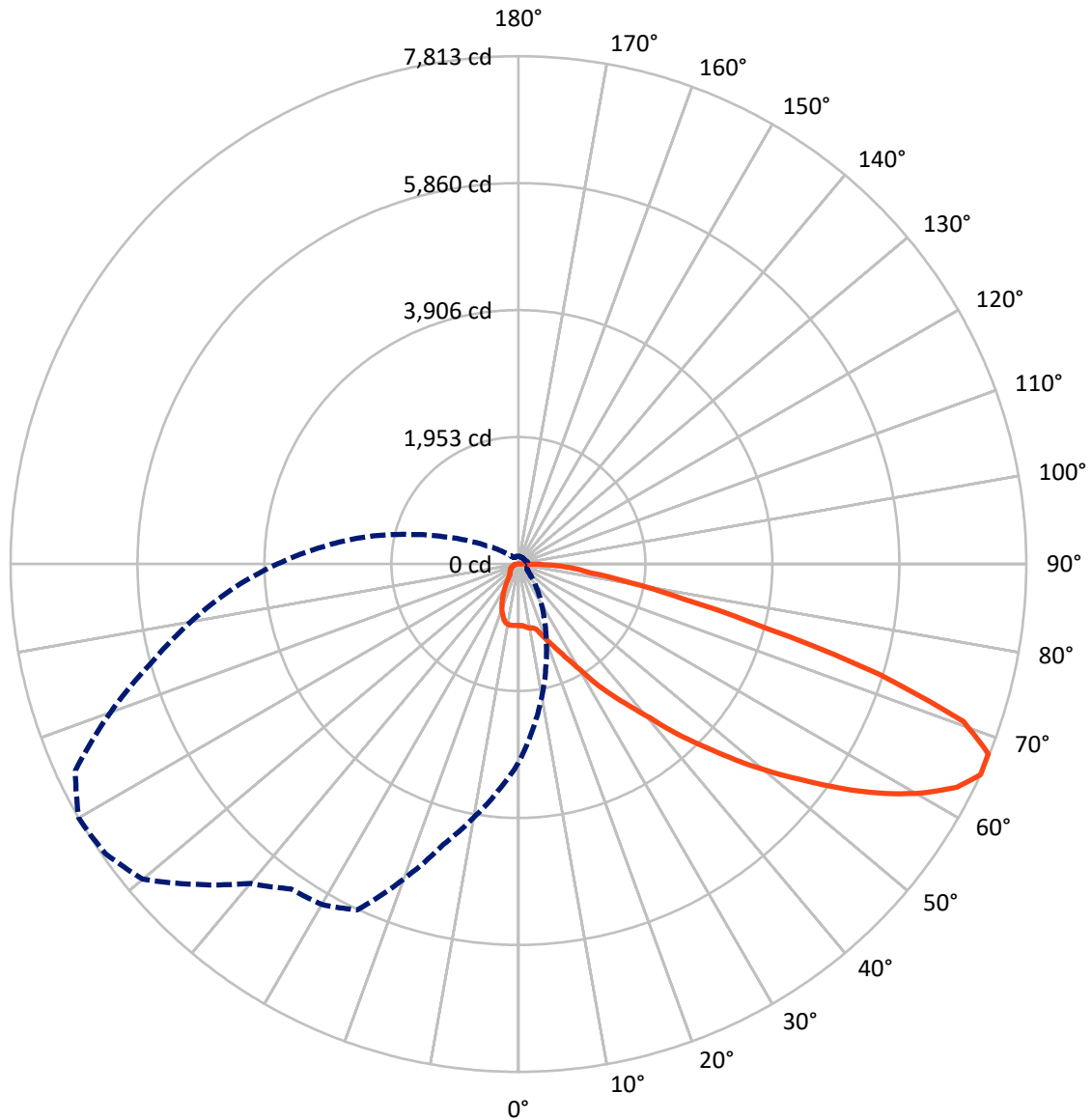
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.7 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	1352.0	0.0	1352.0
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	5937.3	0.0	5937.3
	% Fixture	81.5	0.0	81.5
Total	Lumens	7289.3	0.0	7289.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	1.3
10°-20°	275.3	3.8
20°-30°	457.4	6.3
30°-40°	668.7	9.2
40°-50°	1017.2	14.0
50°-60°	1462.2	20.1
60°-70°	1797.7	24.7
70°-80°	1202.6	16.5
80°-90°	316.4	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°	7289.3	100.0
0°-180°	7289.3	100.0



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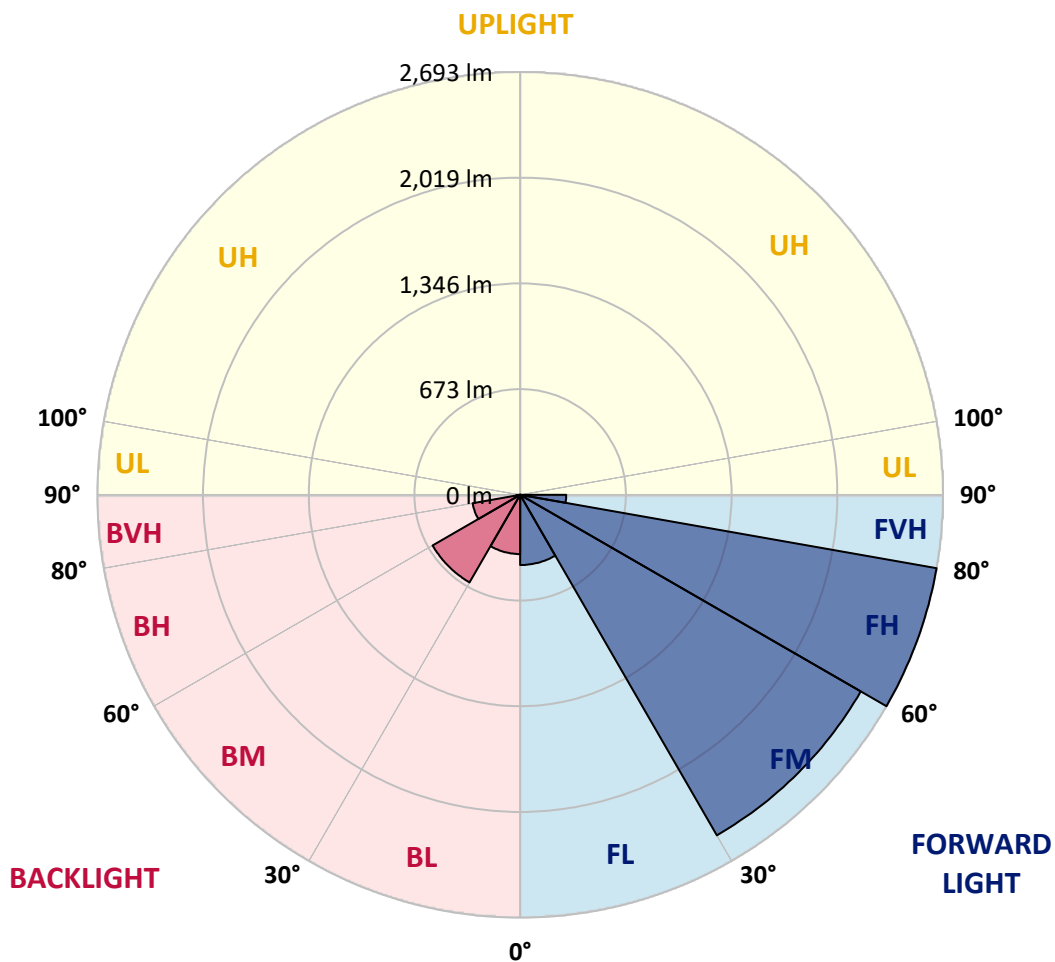
CATALOG NUMBER: ECM-F04-LED-E1-SLR-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	447.1	6.1			
FM (30°-60°)	2504.1	34.4			
FH (60°-80°)	2692.7	36.9			G2/5000
FVH (80°-90°)	293.4	4.0			G3/500
BL (0°-30°)	377.3	5.2	B1/500		
BM (30°-60°)	644.0	8.8	B1/1000		
BH (60°-80°)	307.7	4.2	B1/500		G1/500
BVH (80°-90°)	23.0	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6
2.5°	948.5	951.3	951.3	949.4	948.5	949.4	950.3	949.4	950.3	952.2	951.3
5°	936.4	938.3	939.2	939.2	939.2	941.1	943.8	942.9	945.7	947.6	947.6
7.5°	907.6	911.3	911.3	912.3	914.1	916.9	921.5	923.4	928.1	934.6	936.4
10°	890.0	890.9	888.1	887.2	889.0	894.6	897.4	902.0	909.5	916.9	924.3
12.5°	894.6	895.5	890.9	891.8	891.8	894.6	903.0	906.7	909.5	914.1	921.5
15°	932.7	932.7	927.1	929.0	929.9	933.6	933.6	927.1	925.3	920.6	916.9
17.5°	983.8	976.4	975.4	974.5	978.2	974.5	966.1	951.3	933.6	915.0	900.2
20°	1036.7	1037.7	1032.1	1031.2	1020.9	1007.9	983.8	954.1	922.5	893.7	864.0
22.5°	1115.7	1117.6	1107.3	1086.9	1064.6	1030.2	986.6	941.1	895.5	855.6	821.2
25°	1235.5	1216.0	1192.8	1150.1	1093.4	1033.0	972.6	916.0	856.5	803.6	759.9
27.5°	1354.5	1315.4	1253.2	1183.5	1103.6	1025.6	954.1	877.9	807.3	743.2	693.0
30°	1465.0	1392.5	1303.4	1204.0	1101.8	1001.4	910.4	824.0	740.4	671.7	612.2
32.5°	1577.4	1471.5	1348.0	1208.6	1073.9	954.1	849.1	749.7	667.0	583.4	519.3
35°	1718.6	1558.8	1374.9	1191.0	1025.6	879.7	767.3	672.6	583.4	498.9	432.0
37.5°	1847.7	1628.5	1388.8	1161.2	962.4	802.6	679.1	582.5	498.9	427.3	369.7
40°	1942.5	1674.0	1387.0	1123.1	898.3	723.7	602.0	514.7	439.4	382.7	338.1
42.5°	2016.8	1700.0	1377.7	1086.9	842.6	666.1	551.8	471.9	412.5	366.9	332.6
45°	2067.9	1718.6	1372.1	1058.1	805.4	638.2	535.1	468.2	418.0	377.2	338.1
47.5°	2112.5	1740.0	1370.2	1045.1	797.1	646.6	557.4	497.0	442.2	389.2	337.2
50°	2157.1	1761.3	1387.0	1066.5	828.7	693.0	609.4	532.3	457.1	385.5	321.4
52.5°	2218.4	1823.6	1449.2	1127.8	897.4	758.0	658.6	561.1	459.8	376.2	306.6
55°	2310.4	1920.2	1538.4	1208.6	971.7	828.7	698.6	572.3	457.1	366.0	292.6
57.5°	2460.9	2062.3	1660.1	1321.0	1068.3	883.5	720.9	576.9	450.6	354.9	281.5
60°	2651.3	2224.9	1813.4	1439.0	1151.0	921.5	730.2	575.0	441.3	341.9	265.7
62.5°	2867.8	2403.3	1951.8	1546.8	1210.5	939.2	726.5	560.2	419.9	314.9	243.4
65°	3058.2	2545.4	2067.9	1633.1	1247.6	939.2	703.2	525.8	381.8	276.8	214.6
67.5°	3214.3	2665.2	2157.1	1683.3	1251.3	906.7	647.5	463.6	321.4	229.5	181.2
70°	3296.0	2703.3	2185.0	1677.7	1189.1	812.9	545.3	360.4	236.0	178.4	145.8
72.5°	3205.9	2613.2	2066.1	1516.1	992.2	606.6	381.8	245.3	169.1	138.4	120.8
75°	2852.9	2217.5	1719.5	1172.4	710.7	378.1	236.9	171.9	133.8	115.2	105.9
77.5°	2130.2	1652.7	1183.5	742.3	406.9	229.5	166.3	131.0	112.4	101.3	92.9
80°	1339.6	1018.2	711.6	408.8	232.2	169.1	138.4	117.1	102.2	88.3	79.9
82.5°	746.0	542.5	362.3	233.2	161.6	136.6	119.8	107.8	91.0	77.1	68.7
85°	510.0	335.4	228.5	153.3	111.5	99.4	89.2	81.8	69.7	58.5	53.9
87.5°	207.2	193.2	140.3	61.3	45.5	40.9	36.2	44.6	37.2	28.8	26.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6
2.5°	953.1	951.3	952.2	951.3	950.3	949.4	948.5	949.4	947.6	948.5	948.5
5°	950.3	948.5	951.3	950.3	948.5	948.5	947.6	947.6	947.6	947.6	948.5
7.5°	942.0	942.0	944.8	944.8	942.9	942.9	941.1	940.1	940.1	941.1	942.9
10°	930.8	933.6	938.3	936.4	932.7	930.8	928.1	926.2	925.3	927.1	929.0
12.5°	922.5	924.3	921.5	918.8	913.2	906.7	905.8	901.1	898.3	903.0	903.0
15°	908.5	901.1	890.9	881.6	868.6	862.1	854.7	852.8	846.3	847.2	851.9
17.5°	878.8	859.3	843.5	834.2	823.1	818.4	810.1	805.4	800.8	796.1	798.9
20°	837.0	815.6	795.2	783.1	765.5	761.8	747.8	747.8	742.3	743.2	748.8
22.5°	784.1	751.5	725.5	710.7	692.1	684.7	678.2	673.5	670.7	676.3	669.8
25°	714.4	675.4	651.2	629.8	609.4	602.0	593.6	590.8	591.8	588.0	594.5
27.5°	642.9	594.5	568.5	544.4	529.5	516.5	510.0	508.2	504.4	514.7	509.1
30°	552.7	509.1	478.4	453.3	435.7	429.2	422.7	420.8	426.4	419.0	415.3
32.5°	461.7	414.3	388.3	366.9	353.9	340.9	339.1	335.4	328.9	337.2	335.4
35°	379.0	339.1	312.1	299.1	281.5	275.9	264.8	262.0	262.9	264.8	263.8
37.5°	328.9	301.0	276.8	259.2	246.2	238.7	235.0	231.3	231.3	229.5	228.5
40°	305.6	282.4	260.1	243.4	233.2	227.6	223.9	220.2	217.4	214.6	211.8
42.5°	301.9	274.0	249.0	232.2	223.0	221.1	220.2	217.4	213.7	209.0	205.3
45°	299.1	263.8	237.8	223.0	216.5	215.5	215.5	212.7	209.9	205.3	199.7
47.5°	289.8	250.8	225.7	214.6	211.8	212.7	211.8	209.0	207.2	202.5	196.0
50°	269.4	231.3	207.2	198.8	197.9	196.9	196.9	196.0	194.2	190.4	183.9
52.5°	251.8	213.7	194.2	188.6	186.7	186.7	184.9	183.9	180.2	177.4	172.8
55°	240.6	204.4	187.7	183.9	183.9	183.0	181.2	178.4	175.6	171.9	166.3
57.5°	230.4	196.9	183.0	180.2	181.2	180.2	178.4	176.5	172.8	168.1	161.6
60°	215.5	185.8	173.7	172.8	174.6	176.5	175.6	174.6	171.9	165.4	156.1
62.5°	194.2	167.2	157.9	159.8	161.6	163.5	162.6	161.6	158.9	153.3	144.9
65°	172.8	153.3	147.7	149.6	151.4	151.4	151.4	149.6	147.7	141.2	134.7
67.5°	152.4	140.3	138.4	140.3	141.2	141.2	142.1	140.3	137.5	132.8	126.3
70°	130.1	124.5	124.5	126.3	127.3	126.3	127.3	124.5	121.7	118.9	112.4
72.5°	116.1	116.1	115.2	115.2	115.2	113.3	112.4	110.5	107.8	105.0	99.4
75°	103.1	103.1	102.2	104.0	100.3	97.5	96.6	94.8	92.0	88.3	84.5
77.5°	88.3	86.4	86.4	89.2	88.3	84.5	81.8	80.8	77.1	73.4	71.5
80°	76.2	74.3	74.3	73.4	71.5	70.6	66.9	63.2	62.2	62.2	59.5
82.5°	66.9	66.0	63.2	61.3	58.5	55.7	53.0	51.1	48.3	47.4	48.3
85°	53.0	53.9	51.1	49.2	46.4	42.7	39.9	38.1	36.2	36.2	39.9
87.5°	30.7	28.8	28.8	27.9	26.9	24.2	24.2	21.4	20.4	26.0	26.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6
2.5°	949.4	949.4	946.6	948.5	947.6	948.5	952.2	948.5	947.6	950.3	953.1
5°	949.4	951.3	948.5	950.3	950.3	953.1	957.8	955.0	956.9	960.6	964.3
7.5°	945.7	948.5	948.5	952.2	955.0	959.6	966.1	964.3	968.0	973.6	978.2
10°	935.5	940.1	944.8	950.3	956.9	964.3	973.6	973.6	977.3	984.7	989.4
12.5°	910.4	922.5	928.1	941.1	951.3	962.4	972.6	979.1	981.9	988.4	994.0
15°	860.2	875.1	886.2	902.0	918.8	934.6	952.2	958.7	964.3	967.1	969.9
17.5°	802.6	812.9	820.3	840.7	859.3	874.2	890.9	899.3	905.8	905.8	907.6
20°	755.3	759.9	761.8	761.8	772.9	786.8	808.2	805.4	811.0	805.4	811.0
22.5°	681.9	674.4	678.2	678.2	685.6	682.8	691.2	705.1	703.2	707.0	722.7
25°	592.7	593.6	587.1	587.1	588.0	589.9	593.6	597.3	610.3	624.3	634.5
27.5°	508.2	506.3	501.6	497.9	494.2	500.7	505.4	504.4	523.0	534.2	552.7
30°	415.3	415.3	416.2	414.3	418.0	413.4	420.8	422.7	438.5	450.6	467.3
32.5°	338.1	340.0	340.0	339.1	345.6	340.9	344.7	349.3	359.5	369.7	378.1
35°	268.5	271.3	278.7	281.5	284.3	280.6	285.2	290.8	291.7	301.0	307.5
37.5°	227.6	232.2	233.2	235.0	235.0	237.8	238.7	242.5	242.5	245.3	247.1
40°	209.9	208.1	207.2	206.2	204.4	205.3	206.2	209.0	209.9	211.8	211.8
42.5°	201.6	198.8	194.2	191.4	187.7	187.7	187.7	187.7	190.4	192.3	192.3
45°	194.2	189.5	184.9	180.2	177.4	175.6	176.5	177.4	179.3	180.2	181.2
47.5°	189.5	183.0	175.6	170.9	168.1	166.3	167.2	168.1	168.1	169.1	170.0
50°	176.5	170.0	163.5	158.9	156.1	155.1	155.1	154.2	155.1	156.1	156.1
52.5°	166.3	159.8	154.2	149.6	146.8	146.8	145.8	144.0	144.9	144.0	144.9
55°	160.7	152.4	145.8	141.2	138.4	138.4	136.6	137.5	137.5	135.6	136.6
57.5°	154.2	145.8	140.3	134.7	131.0	131.0	130.1	131.0	131.9	129.1	129.1
60°	147.7	140.3	133.8	129.1	124.5	125.4	124.5	126.3	126.3	123.6	123.6
62.5°	135.6	129.1	125.4	122.6	118.9	119.8	119.8	122.6	119.8	118.0	117.1
65°	126.3	121.7	116.1	116.1	112.4	114.3	114.3	114.3	111.5	110.5	111.5
67.5°	119.8	114.3	110.5	106.8	104.0	105.0	103.1	103.1	102.2	101.3	103.1
70°	107.8	103.1	101.3	97.5	95.7	92.9	92.0	92.0	92.0	91.0	92.0
72.5°	95.7	92.0	90.1	86.4	84.5	82.7	81.8	80.8	79.9	80.8	80.8
75°	80.8	79.0	77.1	75.2	73.4	72.5	71.5	71.5	70.6	69.7	70.6
77.5°	69.7	66.9	66.0	64.1	65.0	62.2	61.3	62.2	62.2	62.2	63.2
80°	59.5	57.6	57.6	55.7	54.8	53.0	53.9	53.9	53.9	53.9	54.8
82.5°	52.0	50.2	50.2	49.2	46.4	44.6	45.5	47.4	47.4	46.4	48.3
85°	42.7	40.9	40.9	39.9	36.2	35.3	34.4	36.2	37.2	35.3	37.2
87.5°	27.9	26.0	25.1	25.1	21.4	14.9	19.5	21.4	21.4	17.7	20.4
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°	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6
2.5°	952.2	954.1	954.1	955.9	959.6	955.9	954.1	956.9	956.9	955.9	955.9
5°	964.3	968.0	968.9	974.5	977.3	975.4	977.3	979.1	980.1	978.2	980.1
7.5°	980.1	984.7	989.4	995.9	1001.4	1000.5	1003.3	1007.0	1007.9	1007.9	1009.8
10°	993.1	999.6	1004.2	1012.6	1019.1	1020.9	1023.7	1028.4	1033.0	1033.0	1036.7
12.5°	995.9	1003.3	1007.9	1015.4	1026.5	1030.2	1036.7	1047.9	1052.5	1056.3	1059.0
15°	971.7	978.2	984.7	994.9	1007.9	1019.1	1034.0	1049.7	1063.7	1073.9	1077.6
17.5°	908.5	909.5	916.0	930.8	957.8	969.9	988.4	1020.9	1040.5	1059.0	1076.7
20°	815.6	833.3	839.8	859.3	885.3	903.9	925.3	955.0	984.7	1018.2	1047.9
22.5°	733.9	757.1	775.7	798.9	820.3	841.7	868.6	894.6	927.1	959.6	994.9
25°	650.3	671.7	697.7	722.7	747.8	774.8	808.2	836.1	868.6	906.7	951.3
27.5°	569.5	591.8	620.6	650.3	670.7	707.0	734.8	775.7	812.9	854.7	904.8
30°	484.9	506.3	520.2	552.7	581.5	617.8	660.5	700.5	745.0	791.5	850.0
32.5°	393.0	406.0	425.5	447.8	481.2	519.3	563.9	606.6	667.9	725.5	781.3
35°	314.9	321.4	320.5	345.6	360.4	406.0	461.7	502.6	563.9	634.5	707.9
37.5°	248.0	247.1	252.7	256.4	275.0	304.7	348.4	401.3	471.9	548.1	621.5
40°	211.8	212.7	213.7	213.7	217.4	236.9	275.9	330.7	398.5	466.3	547.2
42.5°	195.1	196.9	197.9	199.7	201.6	208.1	236.0	287.1	344.7	417.1	489.6
45°	183.0	185.8	188.6	188.6	190.4	192.3	208.1	247.1	304.7	373.5	449.6
47.5°	172.8	175.6	177.4	178.4	180.2	182.1	190.4	217.4	273.1	335.4	414.3
50°	157.9	160.7	162.6	165.4	165.4	165.4	170.9	190.4	233.2	294.5	371.6
52.5°	145.8	147.7	150.5	152.4	153.3	154.2	157.0	168.1	200.7	258.3	330.7
55°	139.3	141.2	144.0	145.8	147.7	148.6	150.5	155.1	178.4	227.6	295.4
57.5°	131.0	133.8	137.5	139.3	141.2	142.1	143.1	144.9	160.7	197.9	253.6
60°	125.4	130.1	134.7	137.5	138.4	139.3	140.3	138.4	144.9	168.1	211.8
62.5°	118.9	123.6	127.3	131.0	131.9	132.8	133.8	131.0	130.1	141.2	165.4
65°	113.3	116.1	118.9	121.7	121.7	122.6	121.7	118.0	115.2	115.2	126.3
67.5°	105.9	107.8	110.5	111.5	111.5	111.5	110.5	109.6	105.0	103.1	105.0
70°	94.8	97.5	100.3	102.2	102.2	101.3	100.3	97.5	95.7	93.8	95.7
72.5°	84.5	88.3	89.2	90.1	89.2	89.2	89.2	87.3	88.3	88.3	89.2
75°	74.3	76.2	76.2	78.0	78.0	78.0	78.0	78.0	79.9	79.0	79.9
77.5°	63.2	64.1	66.0	66.0	66.0	66.9	68.7	68.7	70.6	71.5	71.5
80°	54.8	53.0	53.0	52.0	53.0	54.8	56.7	60.4	60.4	61.3	62.2
82.5°	43.7	39.9	38.1	39.9	39.9	40.9	44.6	48.3	48.3	51.1	52.0
85°	33.4	28.8	25.1	26.9	26.9	28.8	32.5	34.4	37.2	38.1	37.2
87.5°	19.5	16.7	11.1	9.3	11.1	13.9	14.9	16.7	13.9	15.8	16.7
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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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6
2.5°	957.8	957.8	953.1	953.1	954.1	955.9	951.3	950.3	951.3	950.3	949.4
5°	982.9	980.1	979.1	977.3	976.4	978.2	973.6	973.6	972.6	970.8	968.0
7.5°	1010.7	1008.9	1007.0	1005.2	1003.3	1004.2	999.6	998.7	997.7	996.8	994.0
10°	1036.7	1034.0	1032.1	1027.5	1023.7	1020.0	1010.7	1007.9	1005.2	1003.3	1002.4
12.5°	1058.1	1055.3	1048.8	1040.5	1034.9	1025.6	1018.2	1011.7	1008.9	1006.1	1007.0
15°	1078.5	1073.0	1064.6	1054.4	1048.8	1039.5	1034.0	1031.2	1029.3	1027.5	1029.3
17.5°	1085.0	1086.9	1082.3	1079.5	1075.8	1072.0	1073.0	1075.8	1081.3	1081.3	1081.3
20°	1073.0	1093.4	1106.4	1116.6	1125.0	1130.6	1131.5	1134.3	1140.8	1143.6	1157.5
22.5°	1044.2	1097.1	1140.8	1176.1	1198.4	1205.8	1214.2	1223.5	1224.4	1227.2	1240.2
25°	1017.2	1094.3	1159.4	1215.1	1267.1	1303.4	1323.8	1342.4	1347.0	1350.7	1350.7
27.5°	969.9	1055.3	1138.9	1213.2	1284.8	1345.2	1392.5	1440.8	1474.3	1486.4	1504.0
30°	919.7	1009.8	1096.2	1190.0	1281.1	1365.6	1451.1	1529.1	1583.9	1624.8	1657.3
32.5°	856.5	954.1	1052.5	1154.7	1263.4	1369.3	1483.6	1596.9	1701.0	1782.7	1832.9
35°	790.6	892.8	994.9	1107.3	1230.0	1358.2	1504.0	1654.5	1793.9	1926.7	2041.0
37.5°	718.1	814.7	926.2	1054.4	1186.3	1339.6	1509.6	1696.3	1889.5	2080.0	2227.7
40°	635.4	729.2	837.0	971.7	1131.5	1304.3	1506.8	1728.8	1971.3	2208.2	2446.0
42.5°	578.8	665.2	768.3	903.9	1066.5	1264.3	1495.7	1758.6	2045.6	2339.2	2638.3
45°	536.0	620.6	721.8	851.9	1017.2	1225.3	1491.9	1792.0	2123.6	2459.9	2809.2
47.5°	498.9	586.2	683.7	811.9	971.7	1190.0	1483.6	1819.9	2188.7	2552.8	2957.9
50°	462.6	551.8	652.1	781.3	938.3	1151.9	1465.0	1845.0	2250.0	2649.5	3080.5
52.5°	422.7	510.9	618.7	750.6	916.9	1127.8	1445.5	1865.4	2309.4	2752.6	3207.8
55°	380.0	469.1	575.0	714.4	888.1	1109.2	1426.0	1878.4	2371.7	2845.5	3322.0
57.5°	333.5	422.7	525.8	667.9	852.8	1084.1	1404.6	1877.5	2417.2	2932.8	3445.6
60°	276.8	357.7	459.8	602.9	791.5	1048.8	1387.0	1870.0	2449.7	3009.9	3583.1
62.5°	210.9	279.6	373.5	507.2	703.2	981.0	1340.5	1838.5	2453.4	3065.6	3697.3
65°	150.5	187.7	262.0	395.7	558.3	829.6	1228.1	1754.8	2392.1	3025.7	3707.6
67.5°	115.2	135.6	171.9	251.8	395.7	631.7	1034.9	1567.2	2201.7	2813.0	3536.6
70°	99.4	109.6	129.1	164.4	248.0	409.7	733.0	1238.3	1813.4	2420.0	3037.8
72.5°	92.0	98.5	110.5	128.2	157.9	241.5	451.5	832.4	1332.2	1845.0	2385.6
75°	84.5	91.0	100.3	111.5	126.3	161.6	246.2	489.6	822.1	1218.8	1603.4
77.5°	75.2	80.8	92.9	103.1	112.4	126.3	157.0	272.2	452.4	729.2	959.6
80°	63.2	68.7	78.0	93.8	103.1	112.4	122.6	167.2	249.9	377.2	492.4
82.5°	52.0	54.8	62.2	76.2	84.5	89.2	92.0	108.7	142.1	185.8	271.3
85°	36.2	36.2	41.8	49.2	55.7	52.0	53.0	55.7	73.4	103.1	208.1
87.5°	13.9	10.2	13.0	15.8	15.8	14.9	17.7	16.7	23.2	43.7	59.5
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	0°
2.5°	949.4	949.4	948.5	947.6	946.6	946.6	944.8	947.6	946.6	947.6	948.5	2.5°
5°	968.9	967.1	965.2	963.4	963.4	961.5	958.7	957.8	954.1	953.1	950.3	5°
7.5°	996.8	996.8	996.8	994.9	991.2	986.6	981.0	977.3	967.1	959.6	951.3	7.5°
10°	1004.2	1006.1	1007.0	1007.9	1004.2	1003.3	996.8	989.4	977.3	966.1	955.0	10°
12.5°	1007.0	1010.7	1011.7	1012.6	1009.8	1007.9	1001.4	996.8	986.6	975.4	969.9	12.5°
15°	1033.0	1039.5	1047.0	1046.0	1054.4	1045.1	1039.5	1040.5	1029.3	1017.2	1013.5	15°
17.5°	1099.9	1102.7	1118.5	1119.4	1132.4	1136.1	1126.9	1116.6	1110.1	1102.7	1086.9	17.5°
20°	1172.4	1192.8	1198.4	1226.3	1239.3	1245.8	1246.7	1246.7	1234.6	1202.1	1189.1	20°
22.5°	1251.3	1282.0	1315.4	1333.1	1360.0	1363.7	1377.7	1369.3	1360.0	1334.9	1305.2	22.5°
25°	1378.6	1396.3	1426.0	1470.6	1483.6	1510.5	1504.9	1517.0	1496.6	1452.9	1435.3	25°
27.5°	1520.7	1551.4	1593.2	1635.0	1653.6	1683.3	1664.7	1683.3	1649.9	1637.8	1595.1	27.5°
30°	1675.9	1717.7	1792.0	1844.0	1882.1	1902.6	1890.5	1880.3	1871.0	1848.7	1845.9	30°
32.5°	1866.3	1916.5	1987.1	2054.9	2121.8	2191.5	2208.2	2223.1	2257.4	2189.6	2123.6	32.5°
35°	2101.4	2139.4	2218.4	2296.4	2388.4	2475.7	2619.7	2656.0	2609.5	2528.7	2422.8	35°
37.5°	2330.8	2417.2	2496.2	2589.1	2657.8	2758.1	2822.2	2893.8	2854.8	2779.5	2657.8	37.5°
40°	2612.3	2729.3	2837.1	2951.4	3029.4	3107.4	3228.2	3306.2	3298.8	3205.0	3040.6	40°
42.5°	2870.6	3056.3	3234.7	3320.2	3424.2	3565.4	3654.6	3779.1	3787.5	3678.8	3469.7	42.5°
45°	3140.9	3357.3	3574.7	3742.9	3831.1	4005.8	4210.1	4345.8	4387.6	4180.4	3966.7	45°
47.5°	3352.7	3689.9	3981.6	4160.9	4325.3	4505.6	4768.5	4964.5	4947.8	4668.1	4385.7	47.5°
50°	3538.5	3967.7	4320.7	4616.1	4813.0	5021.1	5367.7	5601.8	5520.0	5164.2	4811.2	50°
52.5°	3706.6	4210.1	4646.8	5012.8	5242.2	5539.5	5977.1	6181.4	5949.2	5605.5	5168.8	52.5°
55°	3860.8	4429.4	4936.6	5376.9	5730.9	6114.6	6525.2	6665.4	6334.7	5910.2	5508.9	55°
57.5°	4003.0	4632.8	5203.2	5731.8	6206.5	6664.5	7022.2	7031.5	6616.2	6145.2	5762.5	57.5°
60°	4173.9	4819.6	5481.9	6099.7	6678.4	7154.1	7363.1	7297.1	6797.4	6320.8	5937.1	60°
62.5°	4339.3	4987.7	5709.5	6453.6	7151.3	7566.5	7608.4	7469.0	6921.8	6402.5	6068.1	62.5°
65°	4421.0	5115.9	5836.8	6678.4	7521.0	7812.7	7761.6	7543.3	6972.0	6414.6	6101.5	65°
67.5°	4301.2	4996.1	5715.1	6580.9	7519.2	7796.9	7665.0	7401.2	6850.3	6250.2	5946.4	67.5°
70°	3859.9	4533.4	5119.6	5934.3	6989.7	7263.7	7065.8	6804.8	6344.0	5756.9	5618.5	70°
72.5°	3247.7	3747.5	4238.0	4840.0	5563.7	5803.3	5542.3	5672.4	5553.4	4984.9	4858.6	72.5°
75°	2437.6	2904.9	3096.3	3281.2	3781.0	3924.0	3823.7	4269.6	4391.3	4154.4	3832.0	75°
77.5°	1595.1	2085.6	2120.9	2124.6	2329.0	2603.0	2966.2	3429.8	3660.2	3553.4	3162.3	77.5°
80°	929.9	1469.6	1314.5	1264.3	1445.5	1751.1	2230.5	2811.1	3115.8	3138.1	2764.6	80°
82.5°	467.3	921.5	798.0	789.6	891.8	1117.6	1467.8	1792.0	2188.7	2207.3	2256.5	82.5°
85°	363.2	633.6	648.4	703.2	774.8	868.6	894.6	952.2	1173.3	1377.7	1430.6	85°
87.5°	188.6	466.3	550.0	640.1	631.7	517.4	436.6	471.0	548.1	577.8	750.6	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°
947.6	947.6	947.6	947.6	947.6	947.6	947.6
946.6	948.5	947.6	948.5	949.4	949.4	948.5
945.7	944.8	941.1	939.2	939.2	937.3	936.4
940.1	933.6	924.3	918.8	915.0	912.3	907.6
941.1	929.9	917.8	909.5	901.1	895.5	890.0
953.1	939.2	928.1	915.0	908.5	901.1	894.6
994.9	976.4	963.4	951.3	943.8	938.3	932.7
1061.8	1039.5	1018.2	1007.0	994.0	984.7	983.8
1151.9	1119.4	1091.6	1066.5	1054.4	1039.5	1036.7
1254.1	1206.7	1177.0	1149.1	1132.4	1114.8	1115.7
1384.2	1336.8	1288.5	1259.7	1235.5	1238.3	1235.5
1540.3	1503.1	1447.4	1412.1	1404.6	1375.8	1354.5
1783.6	1727.9	1660.1	1596.9	1557.0	1509.6	1465.0
2022.4	1919.3	1829.2	1767.9	1716.8	1647.1	1577.4
2258.4	2139.4	2055.8	2003.8	1924.8	1827.3	1718.6
2538.9	2460.9	2401.4	2274.1	2161.7	2012.2	1847.7
2943.9	2845.5	2703.3	2541.7	2379.1	2167.3	1942.5
3347.1	3228.2	3029.4	2791.6	2558.4	2302.9	2016.8
3784.7	3555.2	3296.0	3008.0	2721.0	2404.2	2067.9
4129.3	3843.2	3519.9	3174.3	2850.1	2487.8	2112.5
4481.4	4135.8	3729.9	3340.6	2967.2	2555.6	2157.1
4758.2	4372.7	3944.5	3492.0	3075.9	2631.8	2218.4
5035.1	4608.7	4136.8	3643.5	3210.6	2737.7	2310.4
5265.5	4822.3	4322.5	3808.8	3366.6	2878.9	2460.9
5569.2	5122.4	4540.9	4004.8	3543.1	3071.2	2651.3
5858.2	5474.5	4844.6	4235.2	3758.7	3288.6	2867.8
6048.6	5872.1	5155.8	4466.5	3961.2	3492.0	3058.2
6052.3	6124.8	5483.8	4654.2	4150.7	3713.1	3214.3
5906.5	6160.1	5553.4	4670.9	4240.8	3811.6	3296.0
5402.0	5725.3	5136.3	4341.1	4073.6	3734.5	3205.9
4178.6	4412.7	4108.0	3679.7	3689.0	3491.1	2852.9
2892.8	3113.9	2857.5	2766.5	2970.0	2859.4	2130.2
2191.5	1906.3	1805.9	1854.2	2107.9	2095.8	1339.6
1951.8	1442.7	1196.5	1256.0	1488.2	1359.1	746.0
1600.6	1439.0	1203.0	1087.8	1134.3	928.1	510.0
921.5	1052.5	857.4	808.2	703.2	418.0	207.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)