

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:

Luminaire Tested: **ENV-SA1F-740-U-SLL-ULG**

Issue Date: 3/30/2022

Test Information

Test Method: LM-79-08
Report Number:
REPORT IS A COMBINATION OF REPORTS P401860 AND P226775
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1F-740-U-SLL-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8658.9 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.1')
IES Classification: Type III - Medium
BUG Rating: B1 - U5 - G2

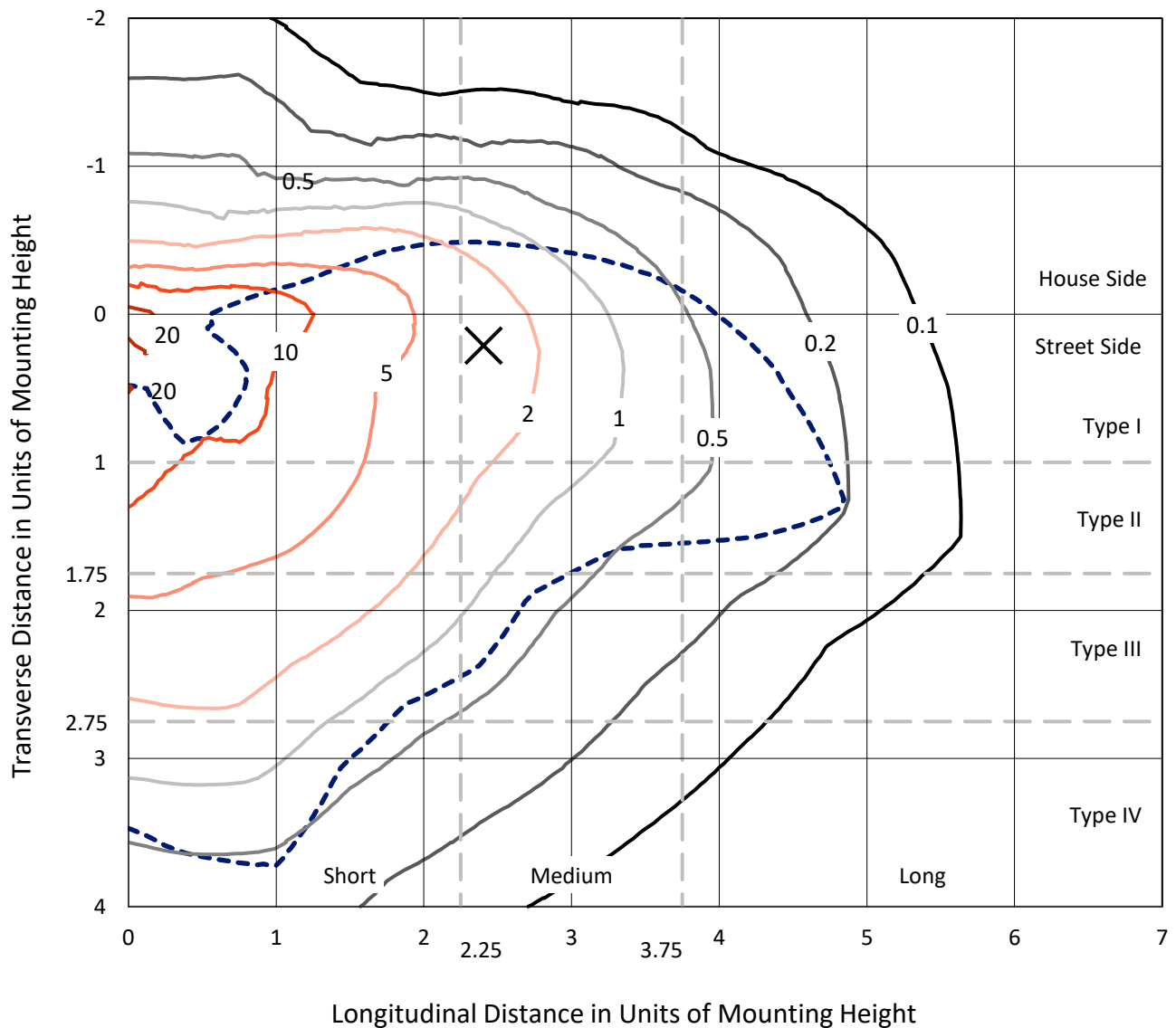
Input Watts (W): 82.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

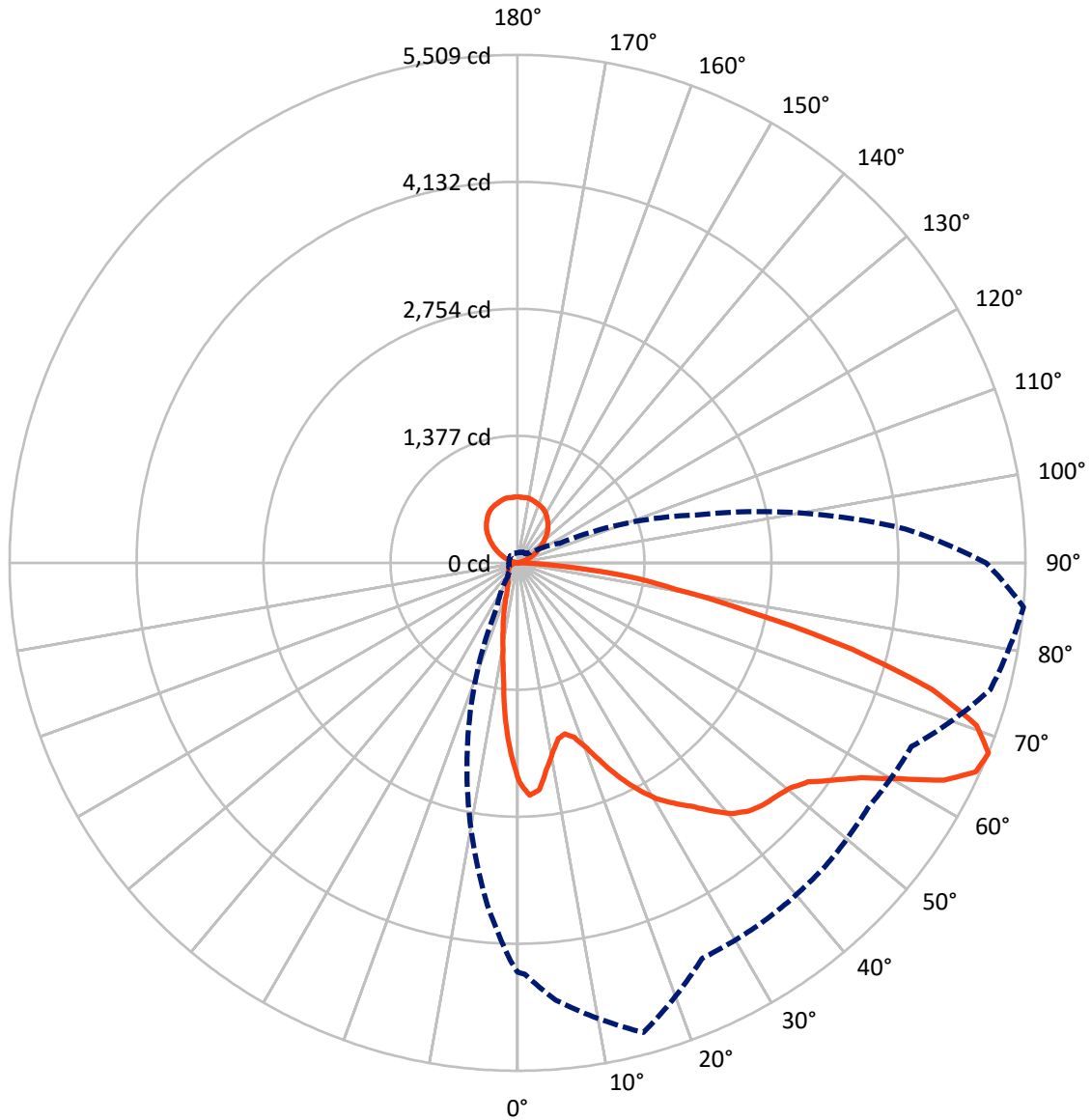
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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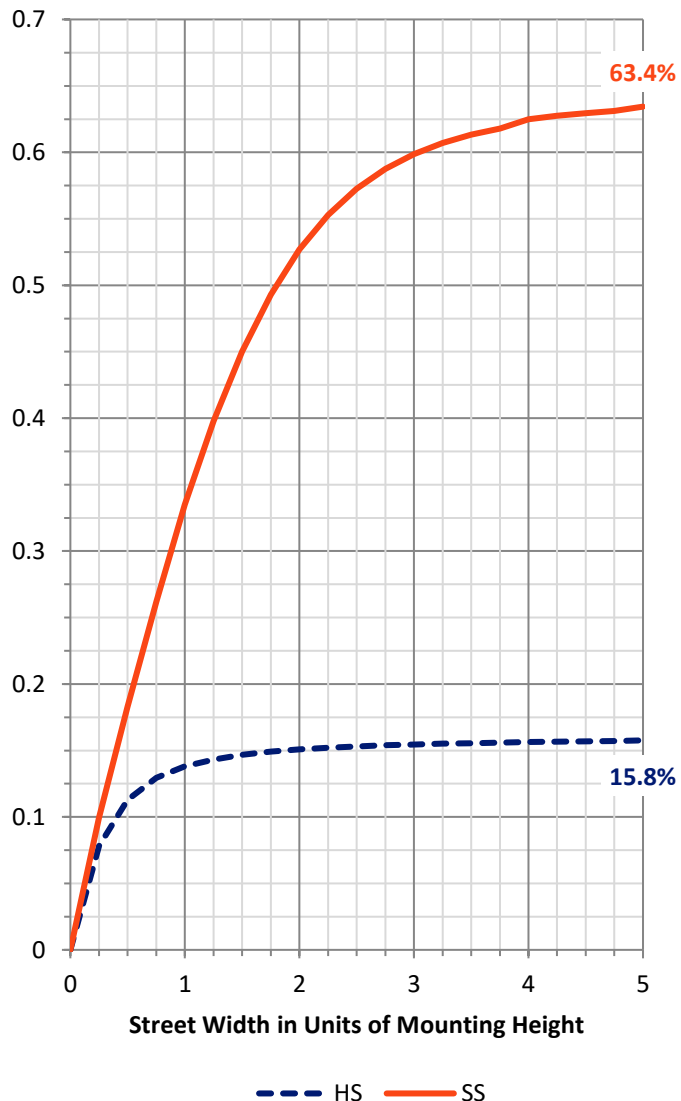
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1387.2	887.0	2274.2
	% Fixture	16.0	10.2	26.3
Street Side	Lumens	5497.8	887.0	6384.7
	% Fixture	63.5	10.2	73.7
Total	Lumens	6885.0	1773.9	8658.9
	% Fixture	79.5	20.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.9	2.1
10°-20°	356.7	4.1
20°-30°	498.3	5.8
30°-40°	702.5	8.1
40°-50°	973.4	11.2
50°-60°	1367.8	15.8
60°-70°	1672.2	19.3
70°-80°	982.7	11.3
80°-90°	150.5	1.7
90°-100°	8.4	0.1
100°-110°	58.7	0.7
110°-120°	169.9	2.0
120°-130°	279.4	3.2
130°-140°	344.6	4.0
140°-150°	352.5	4.1
150°-160°	297.0	3.4
160°-170°	195.5	2.3
170°-180°	67.8	0.8
0°-90°	6885.0	79.5
0°-180°	8658.9	100.0

Coefficient of Utilization

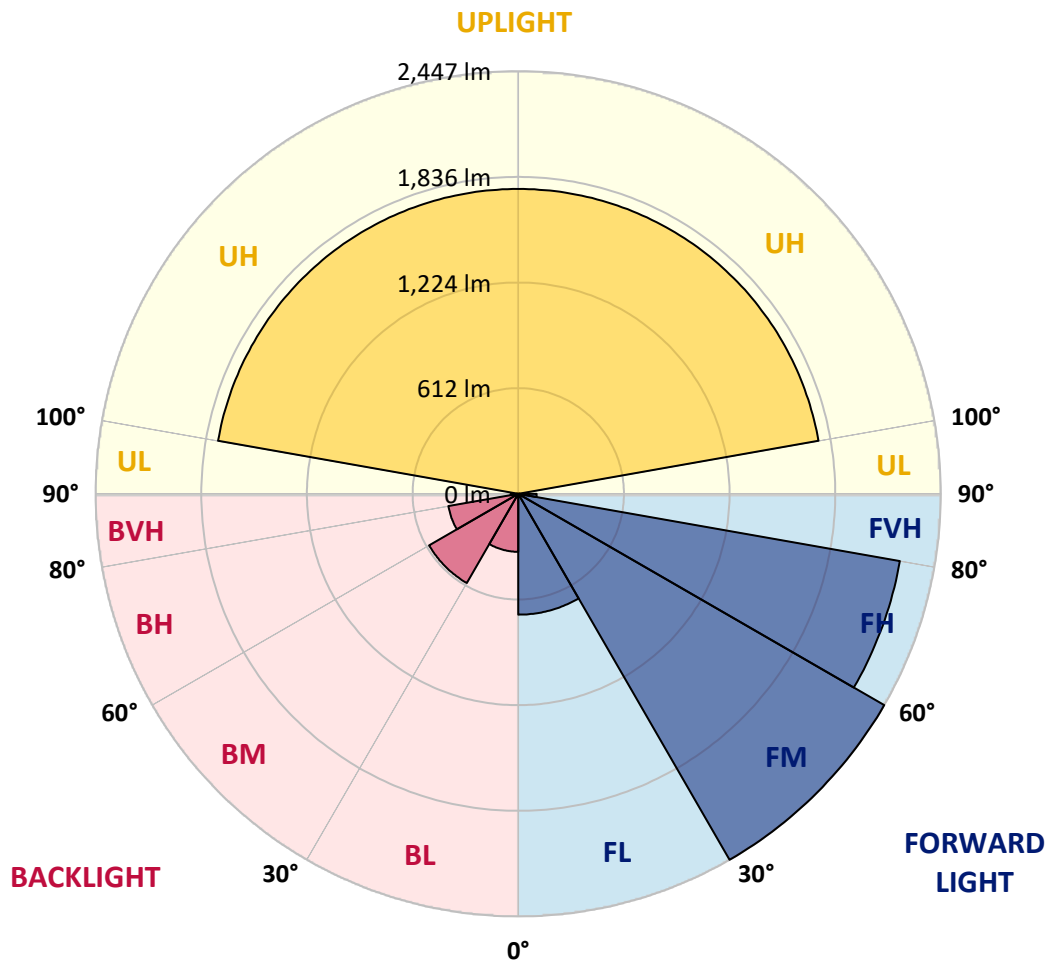


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	699.9	8.1			
FM (30°-60°)	2447.3	28.3			
FH (60°-80°)	2244.0	25.9			G2/5000
FVH (80°-90°)	106.5	1.2			G2/225
BL (0°-30°)	336.0	3.9	B1/500		
BM (30°-60°)	596.4	6.9	B1/1000		
BH (60°-80°)	410.9	4.7	B1/500		G1/500
BVH (80°-90°)	44.0	0.5			G1/100
UL (90°-100°)	8.4	0.1		U1/10	
UH (100°-180°)	1765.5	20.4		U5	

BUG Rating: B1-U5-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6
2.5°	2443.9	2432.9	2470.5	2525.8	2563.5	2590.0	2598.9	2597.8	2590.0	2569.0	2524.7
5°	2335.5	2325.5	2401.9	2524.7	2632.1	2709.6	2731.7	2700.7	2662.0	2580.1	2471.6
7.5°	2129.6	2145.1	2242.5	2415.2	2587.8	2710.7	2740.6	2691.9	2612.2	2445.0	2262.4
10°	1973.5	1981.3	2090.9	2298.9	2482.7	2608.9	2660.9	2617.7	2513.7	2302.3	2090.9
12.5°	1877.2	1885.0	1991.2	2183.8	2379.7	2478.3	2493.8	2492.6	2406.3	2201.5	1956.9
15°	1890.5	1900.5	2006.7	2166.1	2276.8	2320.0	2321.1	2333.3	2307.8	2151.7	1924.8
17.5°	2018.9	2018.9	2120.7	2217.0	2191.6	2160.6	2183.8	2206.0	2250.2	2181.6	1990.1
20°	2221.5	2230.3	2324.4	2307.8	2152.8	2075.4	2047.7	2086.4	2223.7	2271.3	2144.0
22.5°	2440.6	2463.9	2562.4	2440.6	2146.2	1995.7	1964.7	2006.7	2227.0	2413.0	2355.4
25°	2683.0	2711.8	2778.2	2595.6	2166.1	1951.4	1930.4	1970.2	2235.9	2543.6	2583.4
27.5°	2904.4	2906.6	2971.9	2726.2	2218.1	1955.8	1920.4	1972.4	2260.2	2646.5	2784.9
30°	3061.6	3061.6	3090.3	2792.6	2282.3	1983.5	1929.3	2005.6	2294.5	2702.9	2967.5
32.5°	3205.5	3213.2	3198.8	2862.3	2343.2	2023.3	1950.3	2072.0	2348.8	2749.4	3108.1
35°	3388.1	3387.0	3322.8	2917.7	2399.7	2066.5	2002.3	2156.2	2427.3	2818.1	3242.0
37.5°	3613.9	3602.8	3466.7	2967.5	2468.3	2140.7	2100.8	2271.3	2532.5	2898.9	3411.3
40°	3818.7	3801.0	3598.4	3014.0	2522.5	2284.6	2261.3	2414.1	2665.3	2999.6	3576.3
42.5°	3978.0	3951.5	3710.2	3047.2	2604.4	2510.4	2530.3	2670.8	2799.2	3089.2	3679.2
45°	4112.0	4084.3	3794.3	3063.8	2802.6	2832.4	2871.2	2988.5	2942.0	3113.6	3742.3
47.5°	4208.3	4162.9	3830.8	3112.5	3070.4	3208.8	3328.3	3336.1	3143.5	3112.5	3781.0
50°	4264.7	4214.9	3865.1	3233.1	3381.5	3636.0	3763.3	3703.5	3352.7	3132.4	3836.4
52.5°	4378.7	4326.7	4007.9	3429.0	3700.2	4068.8	4137.4	4041.1	3569.6	3235.3	3947.1
55°	4665.4	4642.2	4284.6	3692.5	4013.5	4418.6	4449.6	4353.3	3796.5	3413.6	4158.5
57.5°	4989.7	4938.8	4658.8	4023.4	4313.4	4692.0	4741.8	4609.0	4034.5	3663.7	4394.2
60°	5080.5	5070.5	4975.3	4409.7	4623.3	4984.2	4987.5	4818.2	4312.3	3961.4	4754.0
62.5°	4947.7	4979.8	5107.0	4767.2	4883.5	5180.1	5152.4	4976.4	4603.4	4435.2	5191.2
65°	4716.3	4761.7	5017.4	5104.8	4943.2	5141.4	5082.7	4970.9	4787.2	4945.4	5462.3
67.5°	4438.5	4462.9	4760.6	5273.1	4734.0	4715.2	4687.5	4636.6	4714.1	5308.5	5508.8
70°	4149.6	4170.6	4445.1	5041.7	4106.4	3890.6	3867.4	3823.1	4125.3	5304.1	5280.8
72.5°	3497.7	3484.4	3737.9	4208.3	3135.7	2842.4	3039.4	2943.1	3337.2	4765.0	4704.1
75°	2172.8	2245.8	2563.5	2950.9	2148.4	1947.0	2219.3	2194.9	2709.6	4103.1	3745.6
77.5°	1323.8	1338.2	1517.5	1839.6	1293.9	1349.3	1426.7	1577.3	2008.9	3326.1	2611.1
80°	692.9	644.2	775.9	1009.5	768.2	905.4	1046.0	1212.0	1275.1	2168.3	1745.5
82.5°	200.3	199.2	262.3	422.8	364.2	445.0	528.0	761.5	835.7	1289.5	1195.4
85°	1.1	1.1	1.1	2.2	3.3	5.5	23.2	195.9	259.0	597.7	491.4
87.5°	0.0	0.0	1.1	2.2	2.2	4.4	6.6	8.9	11.1	13.3	48.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	4.1	4.1	4.1	5.1	6.1	6.1	6.1	7.2	7.2	6.1	6.1
95°	5.1	5.1	5.1	6.1	7.2	7.2	7.2	7.2	8.2	7.2	7.2
97.5°	7.2	7.2	7.2	8.2	8.2	9.2	9.2	12.3	10.2	9.2	8.2
100°	8.2	8.2	8.2	9.2	10.2	12.3	21.5	29.7	26.6	23.5	19.4
102.5°	11.3	11.3	11.3	13.3	18.4	27.6	40.9	51.1	48.1	43.0	39.9
105°	21.5	21.7	22.5	27.6	36.8	49.1	64.4	73.7	71.6	66.5	62.4
107.5°	41.9	42.1	43.0	50.1	59.3	74.7	90.0	97.2	96.2	92.1	89.0
110°	67.5	67.9	69.6	75.7	89.0	104.3	116.6	122.8	123.8	121.7	118.7



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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	101.3	101.3	101.3	108.4	123.8	137.1	146.3	151.4	153.4	152.4	150.4
115°	143.2	143.0	142.2	150.4	162.6	171.9	178.0	183.1	186.2	183.1	181.1
117.5°	188.2	188.2	188.2	193.3	201.5	206.6	209.7	215.8	219.9	214.8	212.8
120°	230.2	229.8	228.1	231.2	238.3	242.4	248.6	251.6	255.7	250.6	248.6
122.5°	269.0	268.4	266.0	267.0	273.1	277.2	283.4	285.4	289.5	284.4	282.3
125°	304.8	304.0	300.7	302.8	305.9	312.0	317.1	320.2	322.2	317.1	317.1
127.5°	337.6	337.4	336.6	336.6	340.6	346.8	347.8	352.9	353.9	353.9	352.9
130°	371.3	370.9	369.3	370.3	374.4	378.5	380.5	385.7	389.7	389.7	387.7
132.5°	405.1	404.7	403.0	402.0	410.2	413.3	414.3	420.4	425.5	423.5	423.5
135°	438.8	438.2	435.8	435.8	441.9	445.0	447.0	453.2	458.3	457.3	460.3
137.5°	470.6	470.0	467.5	469.5	470.6	474.6	478.7	483.9	485.9	486.9	492.0
140°	499.2	498.6	496.1	498.2	500.2	502.3	508.4	511.5	513.5	515.6	520.7
142.5°	529.9	529.3	526.8	528.9	529.9	533.0	537.0	539.1	545.2	545.2	546.3
145°	562.6	561.8	558.5	556.5	559.6	562.6	563.6	568.8	574.9	573.9	570.8
147.5°	588.2	587.6	585.1	584.1	587.2	587.2	588.2	593.3	598.4	599.4	596.4
150°	608.7	608.1	605.6	606.6	606.6	606.6	606.6	610.7	613.8	616.8	619.9
152.5°	625.0	624.4	622.0	622.0	623.0	624.0	624.0	625.0	628.1	632.2	637.3
155°	643.4	642.6	639.3	639.3	641.4	644.5	642.4	640.4	645.5	650.6	652.6
157.5°	660.8	660.2	657.8	657.8	658.8	660.8	659.8	658.8	662.9	664.9	664.9
160°	678.2	677.6	675.1	674.1	671.1	670.0	670.0	673.1	679.2	676.2	675.1
162.5°	688.4	687.6	684.4	684.4	680.3	676.2	678.2	682.3	686.4	685.4	683.3
165°	696.6	696.0	693.6	691.5	691.5	688.4	688.4	687.4	692.5	695.6	693.6
167.5°	705.8	705.2	702.8	699.7	701.7	703.8	700.7	693.6	699.7	703.8	703.8
170°	714.0	713.4	711.0	707.9	707.9	708.9	706.9	701.7	704.8	709.9	712.0
172.5°	715.0	714.6	713.0	711.0	708.9	705.8	705.8	704.8	707.9	709.9	712.0
175°	716.1	715.7	714.0	713.0	711.0	706.9	705.8	705.8	711.0	712.0	709.9
177.5°	723.2	722.8	721.2	716.1	715.0	713.0	711.0	709.9	715.0	717.1	714.0
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6
2.5°	2510.4	2493.8	2458.3	2410.7	2377.5	2320.0	2307.8	2271.3	2234.7	2204.9	2206.0
5°	2419.6	2363.1	2276.8	2177.2	2082.0	1996.8	1980.2	1930.4	1916.0	1901.6	1861.7
7.5°	2181.6	2115.2	1994.6	1847.3	1727.8	1647.0	1560.7	1508.6	1462.2	1409.0	1422.3
10°	1999.0	1903.8	1737.8	1565.1	1415.7	1307.2	1212.0	1163.3	1095.8	1047.1	1040.4
12.5°	1858.4	1755.5	1556.2	1353.7	1213.1	1150.0	1089.1	1012.8	937.5	873.3	840.1
15°	1811.9	1695.7	1464.4	1262.9	1152.2	1075.9	990.6	903.2	811.3	742.7	716.1
17.5°	1866.2	1728.9	1463.3	1224.2	1085.8	974.0	867.8	769.3	660.8	592.2	571.1
20°	2015.6	1844.0	1494.3	1187.7	1005.0	853.4	704.0	597.7	487.0	438.3	416.2
22.5°	2223.7	2000.1	1541.9	1143.4	915.4	706.2	537.9	404.0	349.8	325.4	319.9
25°	2437.3	2198.2	1609.4	1105.8	816.9	562.3	386.3	323.2	297.7	286.7	286.7
27.5°	2672.0	2396.3	1682.4	1060.4	715.0	418.4	314.3	284.5	271.2	264.5	263.4
30°	2862.3	2557.9	1765.4	1007.2	623.2	343.1	278.9	259.0	246.8	243.5	243.5
32.5°	2999.6	2678.6	1852.9	954.1	539.0	309.9	259.0	241.3	228.0	225.8	225.8
35°	3160.1	2793.7	1892.7	924.2	488.1	288.9	244.6	226.9	214.7	209.2	209.2
37.5°	3352.7	2931.0	1914.9	895.4	466.0	269.0	234.7	214.7	202.6	195.9	195.9
40°	3597.3	3087.0	1938.1	866.7	452.7	252.4	223.6	203.7	193.7	186.0	186.0
42.5°	3772.2	3230.9	1955.8	842.3	429.5	244.6	214.7	195.9	183.7	177.1	176.0
45°	3864.0	3364.8	1963.6	827.9	402.9	251.3	208.1	189.3	174.9	168.2	167.1
47.5°	3926.0	3475.5	1973.5	816.9	381.9	239.1	207.0	182.6	168.2	159.4	159.4
50°	4024.5	3621.6	1999.0	795.8	369.7	223.6	223.6	179.3	160.5	152.7	151.6
52.5°	4200.5	3830.8	2067.6	772.6	356.4	208.1	230.2	180.4	155.0	146.1	143.9
55°	4466.2	4164.0	2181.6	739.4	337.6	189.3	214.7	181.5	149.4	141.7	138.4
57.5°	4811.5	4566.9	2314.4	712.8	305.5	173.8	195.9	176.0	142.8	136.1	133.9
60°	5044.0	4835.9	2398.6	678.5	260.1	163.8	168.2	170.5	136.1	128.4	127.3
62.5°	5169.0	4840.3	2399.7	630.9	218.1	155.0	150.5	173.8	130.6	120.6	119.5
65°	5177.9	4604.5	2279.0	570.0	203.7	145.0	138.4	153.9	125.1	115.1	114.0
67.5°	5081.6	4220.4	2003.4	500.3	209.2	137.3	128.4	129.5	118.4	109.6	108.5
70°	4736.2	3723.5	1607.2	445.0	210.3	127.3	120.6	117.3	111.8	104.0	101.8
72.5°	4086.5	3111.4	1217.5	427.2	213.6	119.5	111.8	108.5	104.0	97.4	95.2
75°	3083.7	2427.3	914.3	398.5	215.8	110.7	101.8	99.6	95.2	88.5	87.4
77.5°	2130.7	1799.8	635.3	336.5	192.6	100.7	91.9	89.7	86.3	79.7	78.6
80°	1438.9	1234.1	389.6	252.4	146.1	88.5	79.7	79.7	76.4	69.7	69.7
82.5°	1001.7	922.0	224.7	164.9	106.3	73.1	69.7	69.7	66.4	59.8	58.7
85°	418.4	557.9	100.7	89.7	74.2	57.6	57.6	58.7	55.3	49.8	48.7
87.5°	14.4	59.8	39.8	42.1	44.3	39.8	44.3	44.3	43.2	38.7	37.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	6.1	6.1	6.1	7.2	7.2	6.1	6.1	6.1	5.1	4.1	4.1
95°	7.2	7.2	7.2	8.2	7.2	7.2	7.2	7.2	6.1	5.1	5.1
97.5°	8.2	8.2	9.2	10.2	12.3	9.2	9.2	8.2	8.2	7.2	7.2
100°	19.4	19.4	23.5	26.6	29.7	21.5	12.3	10.2	9.2	8.2	8.2
102.5°	38.9	39.9	43.0	48.1	51.1	40.9	27.6	18.4	13.3	11.3	11.3
105°	62.4	62.4	66.5	71.6	73.7	64.4	49.1	36.8	27.6	22.5	21.5
107.5°	88.0	89.0	92.1	96.2	97.2	90.0	74.7	59.3	50.1	43.0	41.9
110°	119.7	118.7	121.7	123.8	122.8	116.6	104.3	89.0	75.7	69.6	67.5



REPORT NUMBER:
 CATALOG NUMBER: ENV-SA1F-740-U-SLL-ULG

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	150.4	150.4	152.4	153.4	151.4	146.3	137.1	123.8	108.4	101.3	101.3
115°	182.1	181.1	183.1	186.2	183.1	178.0	171.9	162.6	150.4	142.2	143.2
117.5°	213.8	212.8	214.8	219.9	215.8	209.7	206.6	201.5	193.3	188.2	188.2
120°	248.6	248.6	250.6	255.7	251.6	248.6	242.4	238.3	231.2	228.1	230.2
122.5°	283.4	282.3	284.4	289.5	285.4	283.4	277.2	273.1	267.0	266.0	269.0
125°	317.1	317.1	317.1	322.2	320.2	317.1	312.0	305.9	302.8	300.7	304.8
127.5°	355.0	352.9	353.9	353.9	352.9	347.8	346.8	340.6	336.6	336.6	337.6
130°	388.7	387.7	389.7	389.7	385.7	380.5	378.5	374.4	370.3	369.3	371.3
132.5°	424.5	423.5	423.5	425.5	420.4	414.3	413.3	410.2	402.0	403.0	405.1
135°	461.4	460.3	457.3	458.3	453.2	447.0	445.0	441.9	435.8	435.8	438.8
137.5°	493.1	492.0	486.9	485.9	483.9	478.7	474.6	470.6	469.5	467.5	470.6
140°	522.7	520.7	515.6	513.5	511.5	508.4	502.3	500.2	498.2	496.1	499.2
142.5°	548.3	546.3	545.2	545.2	539.1	537.0	533.0	529.9	528.9	526.8	529.9
145°	572.9	570.8	573.9	574.9	568.8	563.6	562.6	559.6	556.5	558.5	562.6
147.5°	598.4	596.4	599.4	598.4	593.3	588.2	587.2	587.2	584.1	585.1	588.2
150°	624.0	619.9	616.8	613.8	610.7	606.6	606.6	606.6	606.6	605.6	608.7
152.5°	642.4	637.3	632.2	628.1	625.0	624.0	624.0	623.0	622.0	622.0	625.0
155°	655.7	652.6	650.6	645.5	640.4	642.4	644.5	641.4	639.3	639.3	643.4
157.5°	670.0	664.9	664.9	662.9	658.8	659.8	660.8	658.8	657.8	657.8	660.8
160°	681.3	675.1	676.2	679.2	673.1	670.0	670.0	671.1	674.1	675.1	678.2
162.5°	689.5	683.3	685.4	686.4	682.3	678.2	676.2	680.3	684.4	684.4	688.4
165°	697.7	693.6	695.6	692.5	687.4	688.4	688.4	691.5	691.5	693.6	696.6
167.5°	709.9	703.8	703.8	699.7	693.6	700.7	703.8	701.7	699.7	702.8	705.8
170°	717.1	712.0	709.9	704.8	701.7	706.9	708.9	707.9	707.9	711.0	714.0
172.5°	717.1	712.0	709.9	707.9	704.8	705.8	705.8	708.9	711.0	713.0	715.0
175°	715.0	709.9	712.0	711.0	705.8	705.8	706.9	711.0	713.0	714.0	716.1
177.5°	718.1	714.0	717.1	715.0	709.9	711.0	713.0	715.0	716.1	721.2	723.2
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



REPORT NUMBER:
 CATALOG NUMBER: ENV-SA1F-740-U-SLL-ULG

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6
2.5°	2173.9	2159.5	2115.2	2109.7	2076.5	2074.3	2088.6	2064.3	2066.5	2096.4	2092.0
5°	1870.6	1837.4	1836.3	1799.8	1758.8	1748.8	1713.4	1700.1	1694.6	1682.4	1726.7
7.5°	1463.3	1447.8	1461.1	1456.6	1419.0	1398.0	1322.7	1265.1	1236.4	1248.5	1251.9
10°	1040.4	1063.7	1099.1	1133.4	1106.9	1037.1	1005.0	958.5	953.0	949.7	971.8
12.5°	824.6	798.0	814.6	826.8	801.4	771.5	758.2	738.3	749.3	774.8	789.2
15°	685.1	638.7	617.6	603.2	609.9	592.2	598.8	592.2	599.9	607.7	634.2
17.5°	541.3	524.7	484.8	466.0	467.1	459.3	461.6	460.5	456.0	473.7	494.8
20°	407.3	402.9	394.0	380.8	383.0	377.4	374.1	355.3	347.6	353.1	370.8
22.5°	317.7	323.2	328.7	327.6	333.2	318.8	305.5	288.9	286.7	287.8	292.2
25°	284.5	286.7	291.1	296.6	300.0	286.7	267.9	257.9	256.8	259.0	259.0
27.5°	264.5	262.3	267.9	274.5	278.9	262.3	246.8	238.0	235.8	233.5	232.4
30°	243.5	243.5	247.9	254.6	257.9	243.5	230.2	221.4	215.8	212.5	211.4
32.5°	228.0	229.1	231.3	235.8	241.3	226.9	215.8	208.1	198.1	194.8	192.6
35°	210.3	214.7	218.1	219.2	223.6	213.6	202.6	190.4	181.5	178.2	178.2
37.5°	195.9	199.2	204.8	203.7	207.0	200.3	188.2	174.9	170.5	169.3	168.2
40°	184.8	184.8	189.3	193.7	198.1	186.0	171.6	164.9	161.6	159.4	160.5
42.5°	174.9	173.8	173.8	181.5	189.3	171.6	159.4	155.0	153.9	151.6	152.7
45°	166.0	164.9	161.6	164.9	176.0	157.2	149.4	146.1	145.0	145.0	145.0
47.5°	158.3	156.1	151.6	152.7	160.5	146.1	139.5	138.4	137.3	137.3	138.4
50°	149.4	147.2	143.9	142.8	145.0	138.4	132.8	130.6	130.6	130.6	132.8
52.5°	141.7	140.6	136.1	135.0	136.1	131.7	126.2	125.1	125.1	125.1	128.4
55°	136.1	133.9	131.7	129.5	131.7	126.2	121.8	119.5	119.5	121.8	124.0
57.5°	130.6	128.4	127.3	125.1	127.3	121.8	117.3	115.1	116.2	117.3	117.3
60°	125.1	122.9	121.8	119.5	122.9	117.3	112.9	111.8	111.8	110.7	110.7
62.5°	119.5	118.4	116.2	114.0	118.4	111.8	108.5	106.3	105.2	105.2	105.2
65°	112.9	111.8	110.7	109.6	111.8	106.3	102.9	101.8	99.6	98.5	99.6
67.5°	107.4	107.4	105.2	102.9	106.3	99.6	97.4	96.3	93.0	91.9	93.0
70°	100.7	100.7	98.5	97.4	101.8	93.0	90.8	89.7	87.4	86.3	86.3
72.5°	94.1	94.1	91.9	90.8	96.3	86.3	84.1	83.0	79.7	78.6	78.6
75°	87.4	86.3	85.2	84.1	90.8	79.7	76.4	74.2	70.8	69.7	68.6
77.5°	79.7	78.6	76.4	77.5	81.9	70.8	66.4	65.3	62.0	60.9	59.8
80°	69.7	68.6	67.5	69.7	69.7	62.0	56.4	54.2	50.9	48.7	47.6
82.5°	59.8	58.7	58.7	60.9	57.6	54.2	47.6	43.2	37.6	34.3	33.2
85°	48.7	50.9	48.7	50.9	43.2	43.2	33.2	25.5	17.7	14.4	13.3
87.5°	37.6	38.7	37.6	38.7	29.9	28.8	15.5	8.9	1.1	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
92.5°	4.1	5.1	6.1	6.1	6.1	7.2	7.2	6.1	6.1	6.1	6.1
95°	5.1	6.1	7.2	7.2	7.2	7.2	8.2	7.2	7.2	7.2	7.2
97.5°	7.2	8.2	8.2	9.2	9.2	12.3	10.2	9.2	8.2	8.2	8.2
100°	8.2	9.2	10.2	12.3	21.5	29.7	26.6	23.5	19.4	19.4	19.4
102.5°	11.3	13.3	18.4	27.6	40.9	51.1	48.1	43.0	39.9	38.9	39.9
105°	22.5	27.6	36.8	49.1	64.4	73.7	71.6	66.5	62.4	62.4	62.4
107.5°	43.0	50.1	59.3	74.7	90.0	97.2	96.2	92.1	89.0	88.0	89.0
110°	69.6	75.7	89.0	104.3	116.6	122.8	123.8	121.7	118.7	119.7	118.7



REPORT NUMBER:
 CATALOG NUMBER: ENV-SA1F-740-U-SLL-ULG

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
112.5°	101.3	108.4	123.8	137.1	146.3	151.4	153.4	152.4	150.4	150.4	150.4
115°	142.2	150.4	162.6	171.9	178.0	183.1	186.2	183.1	181.1	182.1	181.1
117.5°	188.2	193.3	201.5	206.6	209.7	215.8	219.9	214.8	212.8	213.8	212.8
120°	228.1	231.2	238.3	242.4	248.6	251.6	255.7	250.6	248.6	248.6	248.6
122.5°	266.0	267.0	273.1	277.2	283.4	285.4	289.5	284.4	282.3	283.4	282.3
125°	300.7	302.8	305.9	312.0	317.1	320.2	322.2	317.1	317.1	317.1	317.1
127.5°	336.6	336.6	340.6	346.8	347.8	352.9	353.9	353.9	352.9	355.0	352.9
130°	369.3	370.3	374.4	378.5	380.5	385.7	389.7	389.7	387.7	388.7	387.7
132.5°	403.0	402.0	410.2	413.3	414.3	420.4	425.5	423.5	423.5	424.5	423.5
135°	435.8	435.8	441.9	445.0	447.0	453.2	458.3	457.3	460.3	461.4	460.3
137.5°	467.5	469.5	470.6	474.6	478.7	483.9	485.9	486.9	492.0	493.1	492.0
140°	496.1	498.2	500.2	502.3	508.4	511.5	513.5	515.6	520.7	522.7	520.7
142.5°	526.8	528.9	529.9	533.0	537.0	539.1	545.2	545.2	546.3	548.3	546.3
145°	558.5	556.5	559.6	562.6	563.6	568.8	574.9	573.9	570.8	572.9	570.8
147.5°	585.1	584.1	587.2	587.2	588.2	593.3	598.4	599.4	596.4	598.4	596.4
150°	605.6	606.6	606.6	606.6	606.6	610.7	613.8	616.8	619.9	624.0	619.9
152.5°	622.0	622.0	623.0	624.0	624.0	625.0	628.1	632.2	637.3	642.4	637.3
155°	639.3	639.3	641.4	644.5	642.4	640.4	645.5	650.6	652.6	655.7	652.6
157.5°	657.8	657.8	658.8	660.8	659.8	658.8	662.9	664.9	664.9	670.0	664.9
160°	675.1	674.1	671.1	670.0	670.0	673.1	679.2	676.2	675.1	681.3	675.1
162.5°	684.4	684.4	680.3	676.2	678.2	682.3	686.4	685.4	683.3	689.5	683.3
165°	693.6	691.5	691.5	688.4	688.4	687.4	692.5	695.6	693.6	697.7	693.6
167.5°	702.8	699.7	701.7	703.8	700.7	693.6	699.7	703.8	703.8	709.9	703.8
170°	711.0	707.9	707.9	708.9	706.9	701.7	704.8	709.9	712.0	717.1	712.0
172.5°	713.0	711.0	708.9	705.8	705.8	704.8	707.9	709.9	712.0	717.1	712.0
175°	714.0	713.0	711.0	706.9	705.8	705.8	711.0	712.0	709.9	715.0	709.9
177.5°	721.2	716.1	715.0	713.0	711.0	709.9	715.0	717.1	714.0	718.1	714.0
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



REPORT NUMBER:
 CATALOG NUMBER: ENV-SA1F-740-U-SLL-ULG

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6
2.5°	2125.2	2127.4	2175.0	2222.6	2251.3	2323.3	2358.7	2398.6	2419.6	2443.9
5°	1705.7	1747.7	1786.5	1881.7	1930.4	2044.4	2127.4	2260.2	2302.3	2335.5
7.5°	1288.4	1351.5	1399.1	1517.5	1609.4	1751.0	1896.0	2054.3	2099.7	2129.6
10°	1023.8	1081.4	1171.1	1264.0	1367.0	1538.5	1695.7	1859.5	1939.2	1973.5
12.5°	860.0	951.9	1057.0	1143.4	1225.3	1351.5	1550.7	1757.7	1840.7	1877.2
15°	709.5	812.4	919.8	1026.1	1127.9	1270.7	1479.9	1748.8	1854.0	1890.5
17.5°	563.4	647.5	756.0	884.4	1032.7	1214.2	1493.2	1842.9	1971.3	2018.9
20°	400.7	482.6	593.3	751.6	927.5	1155.6	1524.1	1984.6	2167.2	2221.5
22.5°	302.2	347.6	449.4	605.5	833.5	1109.1	1572.8	2178.3	2391.9	2440.6
25°	265.6	281.1	333.2	483.7	739.4	1067.0	1637.0	2370.9	2629.9	2683.0
27.5°	235.8	244.6	271.2	388.5	669.6	1023.8	1713.4	2579.0	2834.7	2904.4
30°	212.5	223.6	245.7	325.4	602.1	961.9	1783.1	2766.0	3008.4	3061.6
32.5°	194.8	207.0	226.9	294.4	544.6	915.4	1823.0	2905.5	3156.8	3205.5
35°	182.6	193.7	213.6	266.8	493.7	883.3	1835.2	3043.9	3338.3	3388.1
37.5°	171.6	182.6	200.3	239.1	458.2	841.2	1854.0	3208.8	3548.6	3613.9
40°	163.8	172.7	189.3	220.3	409.5	795.8	1876.1	3401.4	3753.4	3818.7
42.5°	156.1	166.0	180.4	221.4	360.8	757.1	1890.5	3549.7	3916.1	3978.0
45°	149.4	160.5	177.1	216.9	324.3	721.7	1883.9	3673.7	4064.4	4112.0
47.5°	142.8	156.1	186.0	208.1	313.2	689.6	1889.4	3793.2	4170.6	4208.3
50°	138.4	155.0	199.2	194.8	315.5	675.2	1942.5	3936.0	4250.3	4264.7
52.5°	135.0	158.3	188.2	176.0	315.5	668.5	2044.4	4166.2	4388.7	4378.7
55°	129.5	157.2	176.0	159.4	302.2	671.9	2140.7	4470.6	4720.7	4665.4
57.5°	125.1	150.5	158.3	147.2	271.2	673.0	2283.4	4727.4	4982.0	4989.7
60°	119.5	161.6	137.3	137.3	232.4	667.4	2409.6	4723.0	5029.6	5080.5
62.5°	114.0	158.3	122.9	127.3	205.9	646.4	2486.0	4447.4	4853.6	4947.7
65°	107.4	125.1	112.9	118.4	194.8	594.4	2377.5	4105.3	4615.6	4716.3
67.5°	99.6	102.9	102.9	109.6	190.4	515.8	2104.1	3727.9	4316.7	4438.5
70°	90.8	91.9	94.1	104.0	177.1	443.9	1713.4	3326.1	3995.8	4149.6
72.5°	81.9	83.0	83.0	94.1	166.0	383.0	1213.1	2635.4	3336.1	3497.7
75°	71.9	73.1	71.9	81.9	145.0	286.7	720.6	1666.9	1990.1	2172.8
77.5°	60.9	60.9	58.7	64.2	99.6	181.5	394.0	1012.8	1210.9	1323.8
80°	49.8	45.4	37.6	38.7	54.2	104.0	176.0	581.1	664.1	692.9
82.5°	33.2	25.5	15.5	14.4	17.7	28.8	41.0	230.2	211.4	200.3
85°	6.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
87.5°	0.0	0.0	0.0	0.0	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
92.5°	6.1	7.2	7.2	6.1	6.1	6.1	5.1	4.1	4.1	4.1
95°	7.2	8.2	7.2	7.2	7.2	7.2	6.1	5.1	5.1	5.1
97.5°	9.2	10.2	12.3	9.2	9.2	8.2	8.2	7.2	7.2	7.2
100°	23.5	26.6	29.7	21.5	12.3	10.2	9.2	8.2	8.2	8.2
102.5°	43.0	48.1	51.1	40.9	27.6	18.4	13.3	11.3	11.3	11.3
105°	66.5	71.6	73.7	64.4	49.1	36.8	27.6	22.5	21.7	21.5
107.5°	92.1	96.2	97.2	90.0	74.7	59.3	50.1	43.0	42.1	41.9
110°	121.7	123.8	122.8	116.6	104.3	89.0	75.7	69.6	67.9	67.5



REPORT NUMBER:
 CATALOG NUMBER: ENV-SA1F-740-U-SLL-ULG

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
112.5°	152.4	153.4	151.4	146.3	137.1	123.8	108.4	101.3	101.3	101.3
115°	183.1	186.2	183.1	178.0	171.9	162.6	150.4	142.2	143.0	143.2
117.5°	214.8	219.9	215.8	209.7	206.6	201.5	193.3	188.2	188.2	188.2
120°	250.6	255.7	251.6	248.6	242.4	238.3	231.2	228.1	229.8	230.2
122.5°	284.4	289.5	285.4	283.4	277.2	273.1	267.0	266.0	268.4	269.0
125°	317.1	322.2	320.2	317.1	312.0	305.9	302.8	300.7	304.0	304.8
127.5°	353.9	353.9	352.9	347.8	346.8	340.6	336.6	336.6	337.4	337.6
130°	389.7	389.7	385.7	380.5	378.5	374.4	370.3	369.3	370.9	371.3
132.5°	423.5	425.5	420.4	414.3	413.3	410.2	402.0	403.0	404.7	405.1
135°	457.3	458.3	453.2	447.0	445.0	441.9	435.8	435.8	438.2	438.8
137.5°	486.9	485.9	483.9	478.7	474.6	470.6	469.5	467.5	470.0	470.6
140°	515.6	513.5	511.5	508.4	502.3	500.2	498.2	496.1	498.6	499.2
142.5°	545.2	545.2	539.1	537.0	533.0	529.9	528.9	526.8	529.3	529.9
145°	573.9	574.9	568.8	563.6	562.6	559.6	556.5	558.5	561.8	562.6
147.5°	599.4	598.4	593.3	588.2	587.2	587.2	584.1	585.1	587.6	588.2
150°	616.8	613.8	610.7	606.6	606.6	606.6	606.6	605.6	608.1	608.7
152.5°	632.2	628.1	625.0	624.0	624.0	623.0	622.0	622.0	624.4	625.0
155°	650.6	645.5	640.4	642.4	644.5	641.4	639.3	639.3	642.6	643.4
157.5°	664.9	662.9	658.8	659.8	660.8	658.8	657.8	657.8	660.2	660.8
160°	676.2	679.2	673.1	670.0	670.0	671.1	674.1	675.1	677.6	678.2
162.5°	685.4	686.4	682.3	678.2	676.2	680.3	684.4	684.4	687.6	688.4
165°	695.6	692.5	687.4	688.4	688.4	691.5	691.5	693.6	696.0	696.6
167.5°	703.8	699.7	693.6	700.7	703.8	701.7	699.7	702.8	705.2	705.8
170°	709.9	704.8	701.7	706.9	708.9	707.9	707.9	711.0	713.4	714.0
172.5°	709.9	707.9	704.8	705.8	705.8	708.9	711.0	713.0	714.6	715.0
175°	712.0	711.0	705.8	705.8	706.9	711.0	713.0	714.0	715.7	716.1
177.5°	717.1	715.0	709.9	711.0	713.0	715.0	716.1	721.2	722.8	723.2
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1

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