

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-SA1E-740-U-SLL-HSS-ULG**

Issue Date: 3/30/2022

Test Information

Test Method: LM-79-08
Report Number:
REPORT IS A COMBINATION OF REPORTS P401678 AND P226775
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1E-740-U-SLL-HSS-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7062.9 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.1')
IES Classification: Type III - Short
BUG Rating: B1 - U5 - G1

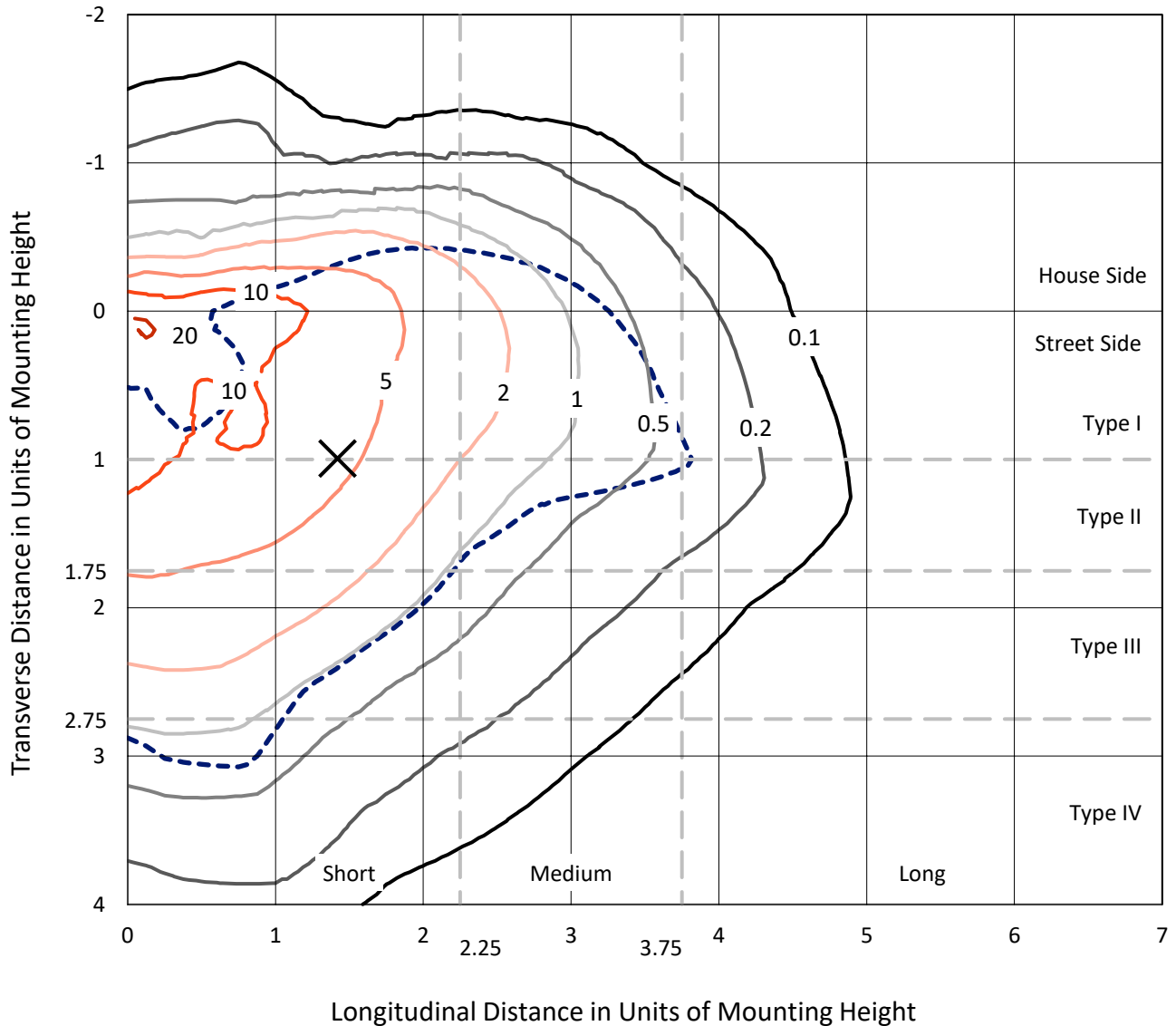
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

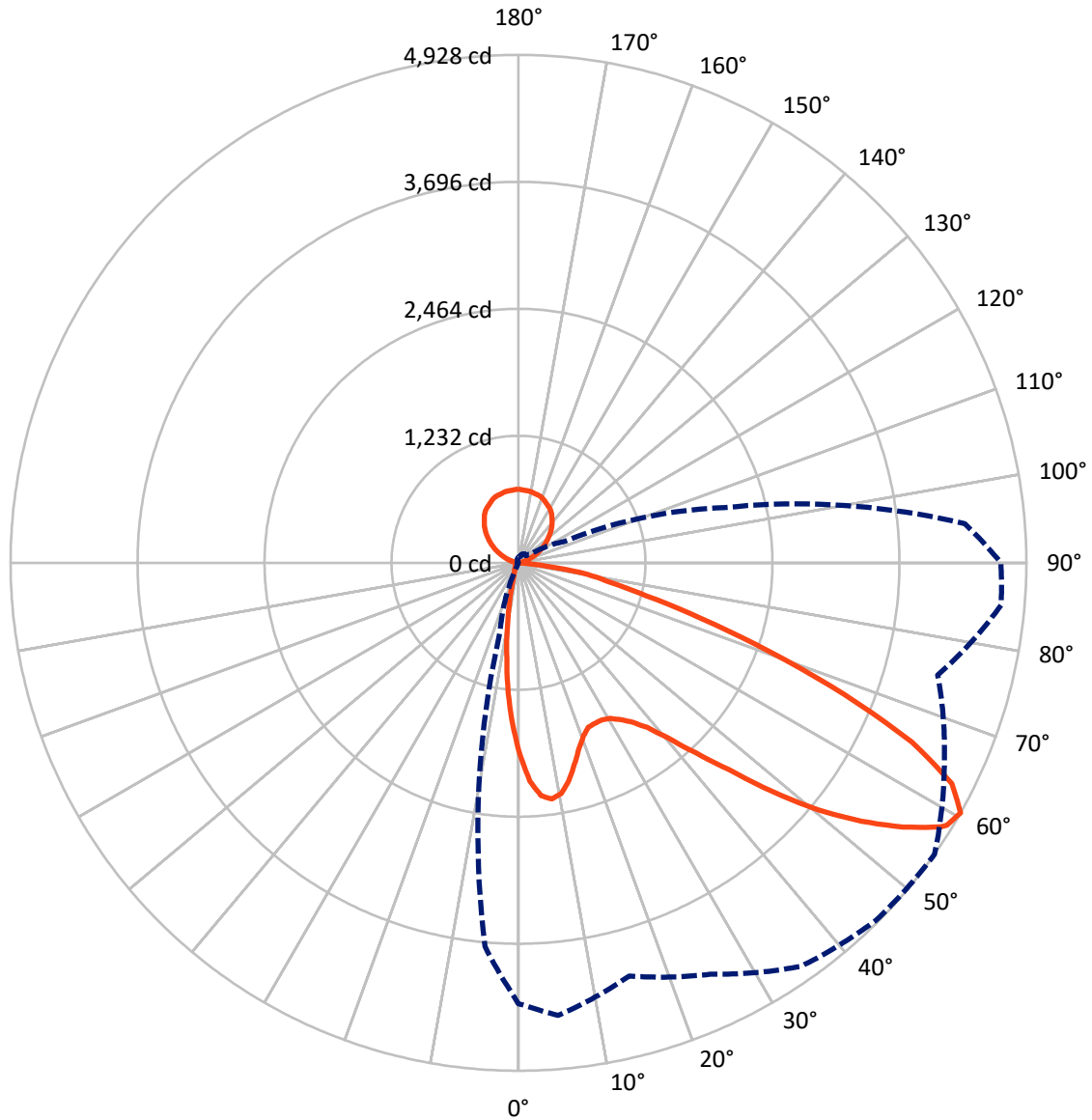
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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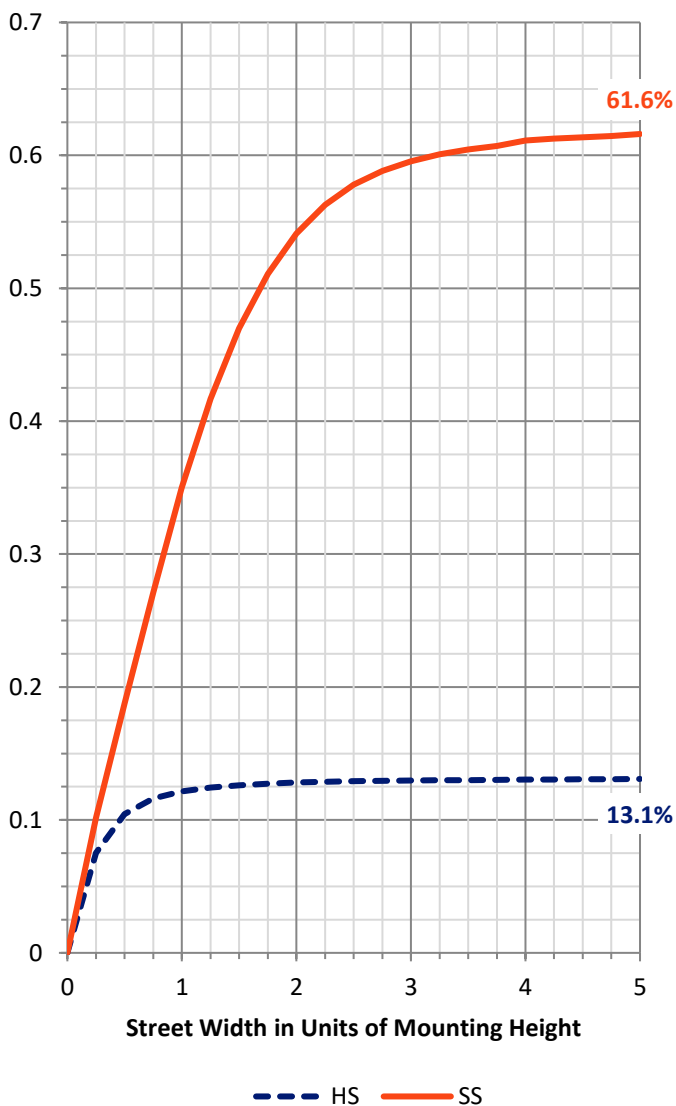
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	936.6	887.0	1823.6
	% Fixture	13.3	12.6	25.8
Street Side	Lumens	4352.4	887.0	5239.3
	% Fixture	61.6	12.6	74.2
Total	Lumens	5289.0	1773.9	7062.9
	% Fixture	74.9	25.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.5	2.0
10°-20°	267.3	3.8
20°-30°	381.3	5.4
30°-40°	559.3	7.9
40°-50°	824.7	11.7
50°-60°	1221.8	17.3
60°-70°	1302.0	18.4
70°-80°	540.1	7.6
80°-90°	51.9	0.7
90°-100°	8.4	0.1
100°-110°	58.7	0.8
110°-120°	169.9	2.4
120°-130°	279.4	4.0
130°-140°	344.6	4.9
140°-150°	352.5	5.0
150°-160°	297.0	4.2
160°-170°	195.5	2.8
170°-180°	67.8	1.0
0°-90°	5289.0	74.9
0°-180°	7062.9	100.0

Coefficient of Utilization



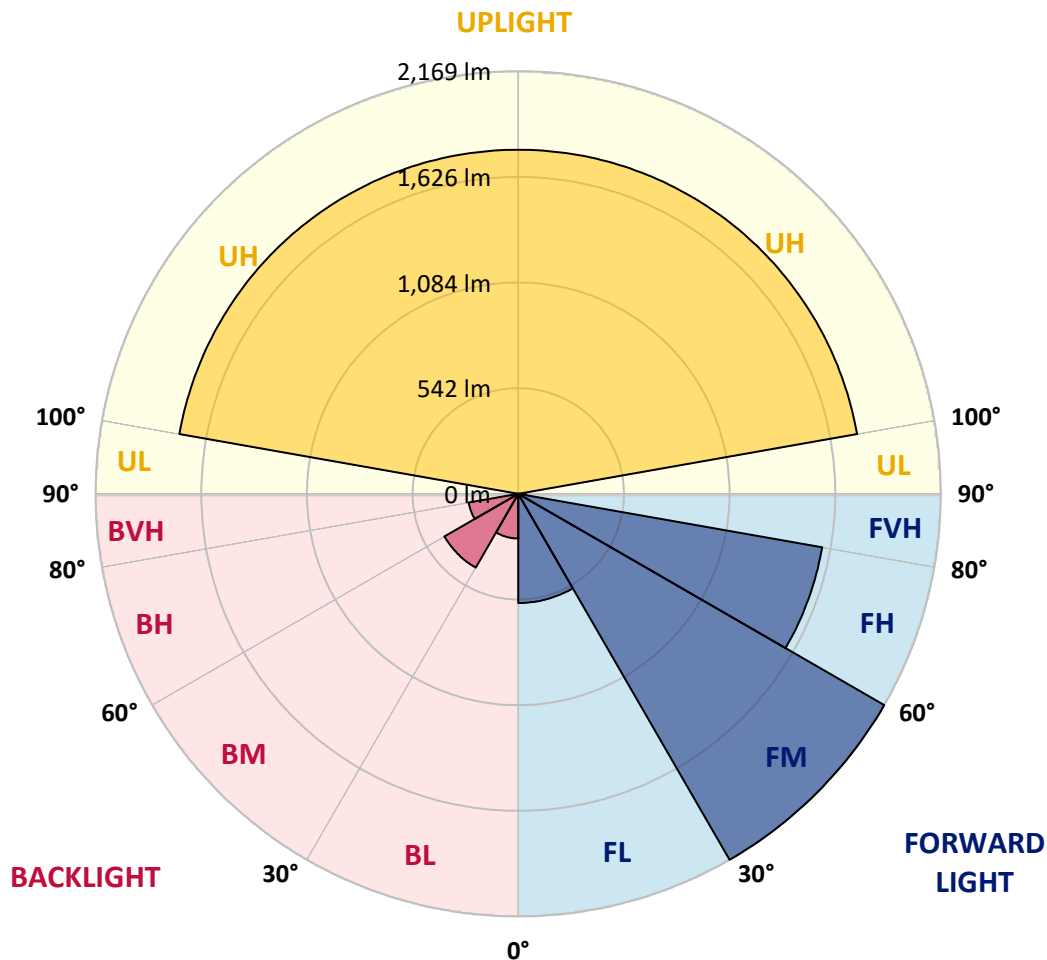
REPORT NUMBER:
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	560.2	7.9			
FM (30°-60°)	2168.5	30.7			
FH (60°-80°)	1583.9	22.4			G1/1800
FVH (80°-90°)	39.8	0.6			G1/100
BL (0°-30°)	229.0	3.2	B1/500		
BM (30°-60°)	437.3	6.2	B1/1000		
BH (60°-80°)	258.2	3.7	B1/500		G1/500
BVH (80°-90°)	12.2	0.2			G1/100
UL (90°-100°)	8.4	0.1		U1/10	
UH (100°-180°)	1765.5	25.0		U5	

BUG Rating: B1-U5-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1950.8	1947.8	1975.8	2033.8	2069.8	2091.8	2095.8	2118.8	2095.8	2083.8	2040.8
5°	1893.8	1892.8	1946.8	2073.8	2177.8	2255.8	2293.8	2267.8	2227.8	2148.8	2052.8
7.5°	1735.8	1735.8	1837.8	2007.8	2181.8	2316.8	2362.8	2314.8	2219.8	2060.8	1888.8
10°	1606.9	1618.9	1716.8	1919.8	2112.8	2260.8	2311.8	2274.8	2150.8	1944.8	1742.8
12.5°	1529.9	1536.9	1645.9	1849.8	2029.8	2149.8	2180.8	2169.8	2079.8	1855.8	1641.9
15°	1536.9	1546.9	1671.9	1838.8	1955.8	2003.8	2014.8	2028.8	1991.8	1819.8	1608.9
17.5°	1646.9	1653.9	1779.8	1887.8	1882.8	1867.8	1871.8	1894.8	1938.8	1849.8	1675.9
20°	1822.8	1840.8	1967.8	1969.8	1844.8	1774.8	1756.8	1794.8	1913.8	1928.8	1818.8
22.5°	2048.8	2055.8	2184.8	2107.8	1848.8	1710.8	1689.9	1732.8	1921.8	2056.8	2016.8
25°	2310.8	2335.8	2405.8	2286.8	1906.8	1701.8	1687.9	1723.8	1950.8	2192.8	2220.8
27.5°	2487.8	2507.8	2574.8	2408.8	1958.8	1706.8	1680.9	1724.8	1985.8	2320.8	2438.8
30°	2645.8	2659.8	2684.8	2472.8	2017.8	1731.8	1689.9	1752.8	2004.8	2347.8	2579.8
32.5°	2794.8	2811.8	2796.8	2549.8	2082.8	1778.8	1706.8	1811.8	2045.8	2401.8	2702.8
35°	2986.7	2987.7	2936.7	2626.8	2156.8	1834.8	1756.8	1895.8	2125.8	2485.8	2834.7
37.5°	3214.7	3216.7	3087.7	2705.8	2240.8	1928.8	1874.8	2025.8	2241.8	2582.8	3023.7
40°	3413.7	3421.7	3250.7	2796.8	2343.8	2111.8	2106.8	2231.8	2390.8	2711.8	3226.7
42.5°	3586.7	3609.7	3400.7	2872.7	2489.8	2392.8	2404.8	2518.8	2571.8	2819.8	3352.7
45°	3761.7	3760.7	3523.7	2948.7	2733.8	2754.8	2868.7	2863.7	2776.8	2877.7	3451.7
47.5°	3870.7	3865.7	3598.7	3072.7	3062.7	3263.7	3384.7	3318.7	3003.7	2939.7	3575.7
50°	3912.7	3910.7	3657.7	3230.7	3397.7	3724.7	3897.7	3765.7	3281.7	3043.7	3723.7
52.5°	4031.6	4021.6	3793.7	3410.7	3700.7	4168.6	4311.6	4164.6	3558.7	3230.7	3895.7
55°	4217.6	4220.6	4027.6	3621.7	3943.7	4481.6	4656.6	4525.6	3841.7	3487.7	4131.6
57.5°	4342.6	4351.6	4286.6	3856.7	4203.6	4700.6	4870.6	4833.6	4218.6	3794.7	4408.6
58°	4354.6	4361.6	4327.6	3901.7	4242.6	4725.6	4899.6	4873.6	4301.6	3892.7	4474.6
60°	4277.6	4298.6	4407.6	4149.6	4403.6	4778.6	4904.6	4927.6	4558.6	4210.6	4700.6
62.5°	4068.6	4075.6	4273.6	4427.6	4513.6	4647.6	4659.6	4719.6	4664.6	4583.6	4902.6
65°	3812.7	3812.7	4026.6	4440.6	4228.6	4206.6	4136.6	4196.6	4355.6	4817.6	4888.6
67.5°	3367.7	3370.7	3643.7	3955.7	3505.7	3429.7	3384.7	3406.7	3745.7	4622.6	4616.6
70°	2721.8	2719.8	3000.7	3202.7	2601.8	2536.8	2590.8	2583.8	3042.7	4107.6	4030.6
72.5°	1924.8	1941.8	2230.8	2473.8	1766.8	1522.9	1760.8	1852.8	2288.8	3462.7	3118.7
75°	1083.9	1106.9	1342.9	1718.8	1114.9	1029.9	1151.9	1282.9	1654.9	2756.8	2094.8
77.5°	544.0	553.0	687.9	826.9	675.9	784.9	777.9	902.9	1134.9	1859.8	1197.9
80°	314.0	332.0	378.0	427.0	378.0	498.0	577.9	679.9	698.9	961.9	667.9
82.5°	126.0	141.0	177.0	201.0	157.0	148.0	101.0	318.0	421.0	465.0	256.0
85°	0.0	0.0	1.0	2.0	3.0	3.0	5.0	56.0	103.0	23.0	42.0
87.5°	0.0	0.0	1.0	1.0	2.0	3.0	4.0	7.0	9.0	11.0	38.0
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	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



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CATALOG NUMBER: ENV-SA1E-740-U-SLL-HSS-ULG

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	67.5	67.9	69.6	75.7	89.0	104.3	116.6	122.8	123.8	121.7	118.7
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°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	2024.8	2013.8	1976.8	1920.8	1885.8	1831.8	1809.8	1758.8	1732.8	1689.9	1689.9
5°	2004.8	1959.8	1866.8	1745.8	1659.9	1569.9	1540.9	1480.9	1437.9	1386.9	1365.9
7.5°	1822.8	1759.8	1614.9	1473.9	1336.9	1245.9	1155.9	1094.9	1036.9	994.9	1000.9
10°	1655.9	1565.9	1406.9	1227.9	1085.9	990.9	909.9	838.9	778.9	719.9	710.9
12.5°	1546.9	1443.9	1253.9	1061.9	955.9	885.9	810.9	732.9	658.9	593.9	567.9
15°	1500.9	1388.9	1176.9	995.9	898.9	808.9	721.9	625.9	541.0	463.0	442.0
17.5°	1550.9	1416.9	1169.9	951.9	816.9	703.9	582.9	478.0	378.0	322.0	305.0
20°	1686.9	1512.9	1192.9	907.9	725.9	579.9	432.0	313.0	257.0	223.0	212.0
22.5°	1883.8	1671.9	1231.9	864.9	633.9	432.0	298.0	226.0	193.0	175.0	170.0
25°	2097.8	1876.8	1303.9	828.9	542.0	321.0	221.0	185.0	165.0	152.0	147.0
27.5°	2338.8	2079.8	1391.9	801.9	457.0	257.0	190.0	163.0	147.0	138.0	134.0
30°	2489.8	2225.8	1458.9	753.9	399.0	234.0	181.0	154.0	137.0	130.0	127.0
32.5°	2628.8	2340.8	1522.9	698.9	355.0	207.0	176.0	162.0	142.0	128.0	122.0
35°	2781.8	2458.8	1553.9	665.9	326.0	180.0	145.0	126.0	115.0	113.0	110.0
37.5°	3009.7	2598.8	1573.9	647.9	308.0	164.0	135.0	114.0	101.0	89.0	84.0
40°	3225.7	2743.8	1583.9	630.9	299.0	154.0	129.0	108.0	94.0	83.0	78.0
42.5°	3394.7	2875.7	1589.9	618.9	283.0	148.0	124.0	104.0	89.0	78.0	73.0
45°	3532.7	3028.7	1584.9	614.9	270.0	152.0	122.0	101.0	85.0	74.0	69.0
47.5°	3667.7	3194.7	1603.9	609.9	257.0	146.0	123.0	100.0	82.0	71.0	66.0
50°	3844.7	3395.7	1672.9	595.9	248.0	137.0	133.0	101.0	81.0	69.0	65.0
52.5°	4073.6	3673.7	1797.8	580.9	237.0	129.0	139.0	101.0	79.0	67.0	62.0
55°	4351.6	3985.6	1935.8	559.0	218.0	119.0	133.0	101.0	77.0	66.0	60.0
57.5°	4578.6	4263.6	2044.8	533.0	183.0	107.0	122.0	97.0	72.0	62.0	57.0
58°	4598.6	4295.6	2059.8	526.0	179.0	105.0	119.0	96.0	70.0	61.0	56.0
60°	4679.6	4347.6	2065.8	488.0	149.0	100.0	103.0	93.0	66.0	57.0	53.0
62.5°	4651.6	4175.6	1938.8	421.0	133.0	91.0	86.0	95.0	61.0	52.0	48.0
65°	4512.6	3837.7	1698.9	377.0	134.0	81.0	74.0	83.0	56.0	47.0	43.0
67.5°	4181.6	3324.7	1379.9	353.0	140.0	72.0	64.0	62.0	50.0	42.0	39.0
70°	3566.7	2724.8	1045.9	332.0	148.0	64.0	59.0	55.0	46.0	39.0	35.0
72.5°	2626.8	2017.8	760.9	311.0	144.0	57.0	55.0	50.0	42.0	35.0	33.0
75°	1638.9	1171.9	521.0	254.0	129.0	50.0	51.0	47.0	38.0	33.0	30.0
77.5°	956.9	822.9	257.0	189.0	89.0	44.0	45.0	43.0	39.0	31.0	29.0
80°	572.9	512.0	110.0	81.0	49.0	39.0	38.0	40.0	37.0	29.0	27.0
82.5°	248.0	222.0	53.0	45.0	40.0	34.0	33.0	34.0	32.0	24.0	23.0
85°	14.0	37.0	25.0	33.0	30.0	25.0	25.0	26.0	23.0	19.0	19.0
87.5°	13.0	28.0	16.0	20.0	22.0	19.0	20.0	20.0	19.0	17.0	16.0
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°	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



REPORT NUMBER:

CATALOG NUMBER: ENV-SA1E-740-U-SLL-HSS-ULG

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	119.7	118.7	121.7	123.8	122.8	116.6	104.3	89.0	75.7	69.6	67.5
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-SA1E-740-U-SLL-HSS-ULG

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1666.9	1655.9	1622.9	1610.9	1558.9	1571.9	1575.9	1570.9	1572.9	1576.9	1591.9
5°	1380.9	1362.9	1319.9	1291.9	1276.9	1266.9	1219.9	1220.9	1227.9	1200.9	1235.9
7.5°	980.9	1000.9	1004.9	978.9	962.9	928.9	885.9	861.9	820.9	843.9	848.9
10°	701.9	691.9	710.9	701.9	676.9	663.9	617.9	613.9	609.9	606.9	635.9
12.5°	535.0	505.0	483.0	488.0	469.0	437.0	429.0	430.0	434.0	434.0	442.0
15°	424.0	378.0	343.0	322.0	325.0	293.0	284.0	254.0	250.0	241.0	243.0
17.5°	297.0	278.0	257.0	233.0	223.0	194.0	159.0	143.0	131.0	133.0	139.0
20°	205.0	197.0	191.0	179.0	169.0	135.0	113.0	106.0	105.0	107.0	109.0
22.5°	165.0	157.0	151.0	147.0	134.0	109.0	97.0	92.0	92.0	92.0	93.0
25°	142.0	134.0	126.0	126.0	114.0	95.0	86.0	82.0	81.0	80.0	82.0
27.5°	132.0	121.0	113.0	108.0	99.0	84.0	76.0	72.0	71.0	71.0	72.0
30°	122.0	111.0	103.0	96.0	86.0	75.0	67.0	64.0	62.0	62.0	63.0
32.5°	116.0	105.0	95.0	86.0	75.0	66.0	59.0	55.0	53.0	54.0	55.0
35°	103.0	94.0	85.0	76.0	66.0	58.0	51.0	47.0	46.0	46.0	47.0
37.5°	81.0	74.0	72.0	67.0	58.0	50.0	43.0	39.0	38.0	38.0	39.0
40°	73.0	64.0	60.0	58.0	53.0	43.0	35.0	31.0	31.0	30.0	32.0
42.5°	67.0	58.0	51.0	49.0	46.0	37.0	28.0	25.0	24.0	24.0	25.0
45°	63.0	53.0	44.0	39.0	39.0	30.0	23.0	19.0	18.0	18.0	19.0
47.5°	61.0	50.0	39.0	32.0	31.0	25.0	18.0	14.0	13.0	13.0	13.0
50°	59.0	46.0	35.0	27.0	24.0	21.0	14.0	11.0	10.0	10.0	10.0
52.5°	56.0	44.0	32.0	24.0	19.0	16.0	11.0	8.0	7.0	6.0	7.0
55°	54.0	41.0	31.0	22.0	16.0	12.0	8.0	6.0	5.0	5.0	5.0
57.5°	51.0	38.0	28.0	21.0	15.0	9.0	6.0	4.0	3.0	3.0	4.0
58°	50.0	38.0	27.0	20.0	14.0	9.0	6.0	4.0	3.0	3.0	4.0
60°	47.0	35.0	26.0	18.0	13.0	8.0	5.0	3.0	2.0	2.0	3.0
62.5°	44.0	32.0	23.0	16.0	11.0	7.0	4.0	2.0	1.0	1.0	1.0
65°	39.0	29.0	20.0	15.0	9.0	5.0	3.0	1.0	0.0	0.0	0.0
67.5°	35.0	27.0	18.0	13.0	8.0	4.0	2.0	0.0	0.0	0.0	0.0
70°	32.0	25.0	16.0	11.0	7.0	3.0	1.0	0.0	0.0	0.0	0.0
72.5°	30.0	23.0	15.0	10.0	5.0	3.0	1.0	0.0	0.0	0.0	0.0
75°	29.0	22.0	15.0	9.0	5.0	3.0	2.0	1.0	0.0	0.0	1.0
77.5°	28.0	22.0	15.0	9.0	6.0	3.0	3.0	2.0	2.0	1.0	3.0
80°	26.0	20.0	13.0	8.0	5.0	4.0	3.0	2.0	0.0	0.0	0.0
82.5°	22.0	16.0	11.0	8.0	5.0	3.0	1.0	0.0	0.0	0.0	0.0
85°	18.0	13.0	9.0	5.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.0	10.0	7.0	4.0	2.0	1.0	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	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



REPORT NUMBER:

CATALOG NUMBER: ENV-SA1E-740-U-SLL-HSS-ULG

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
110°	69.6	75.7	89.0	104.3	116.6	122.8	123.8	121.7	118.7	119.7	118.7
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-SA1E-740-U-SLL-HSS-ULG

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1604.9	1650.9	1669.9	1733.8	1761.8	1819.8	1869.8	1912.8	1933.8	1950.8
5°	1244.9	1288.9	1335.9	1430.9	1512.9	1600.9	1710.8	1824.8	1857.8	1893.8
7.5°	868.9	933.9	1012.9	1097.9	1214.9	1347.9	1505.9	1646.9	1717.8	1735.8
10°	674.9	751.9	835.9	919.9	1016.9	1158.9	1317.9	1499.9	1575.9	1606.9
12.5°	507.0	609.9	709.9	808.9	892.9	1015.9	1188.9	1405.9	1489.9	1529.9
15°	305.0	421.0	544.0	676.9	793.9	937.9	1132.9	1385.9	1491.9	1536.9
17.5°	152.0	208.0	321.0	521.0	693.9	872.9	1131.9	1457.9	1588.9	1646.9
20°	113.0	128.0	171.0	325.0	576.9	818.9	1143.9	1580.9	1773.8	1822.8
22.5°	97.0	108.0	123.0	190.0	432.0	768.9	1185.9	1743.8	1983.8	2048.8
25°	85.0	94.0	106.0	131.0	296.0	709.9	1264.9	1973.8	2221.8	2310.8
27.5°	75.0	83.0	93.0	110.0	198.0	598.9	1309.9	2166.8	2413.8	2487.8
30°	66.0	72.0	82.0	94.0	146.0	463.0	1351.9	2336.8	2587.8	2645.8
32.5°	58.0	63.0	71.0	80.0	111.0	351.0	1353.9	2482.8	2739.8	2794.8
35°	49.0	55.0	61.0	69.0	88.0	274.0	1312.9	2627.8	2919.7	2986.7
37.5°	41.0	46.0	53.0	60.0	80.0	212.0	1227.9	2797.8	3138.7	3214.7
40°	35.0	40.0	46.0	54.0	71.0	154.0	1091.9	2951.7	3343.7	3413.7
42.5°	28.0	33.0	40.0	53.0	59.0	111.0	954.9	3099.7	3521.7	3586.7
45°	22.0	28.0	37.0	51.0	49.0	78.0	836.9	3230.7	3674.7	3761.7
47.5°	16.0	23.0	37.0	46.0	40.0	56.0	776.9	3356.7	3811.7	3870.7
50°	12.0	19.0	40.0	39.0	34.0	48.0	785.9	3496.7	3874.7	3912.7
52.5°	9.0	16.0	31.0	28.0	29.0	42.0	820.9	3681.7	4004.6	4031.6
55°	8.0	12.0	19.0	21.0	26.0	40.0	811.9	3856.7	4170.6	4217.6
57.5°	7.0	10.0	15.0	17.0	23.0	38.0	760.9	3933.7	4277.6	4342.6
58°	6.0	10.0	14.0	17.0	23.0	37.0	747.9	3912.7	4272.6	4354.6
60°	5.0	9.0	13.0	15.0	20.0	33.0	684.9	3734.7	4162.6	4277.6
62.5°	4.0	6.0	10.0	11.0	16.0	27.0	564.0	3446.7	3926.7	4068.6
65°	2.0	4.0	6.0	8.0	11.0	20.0	401.0	3105.7	3673.7	3812.7
67.5°	0.0	2.0	4.0	5.0	7.0	15.0	231.0	2635.8	3257.7	3367.7
70°	0.0	1.0	2.0	3.0	4.0	10.0	122.0	1934.8	2523.8	2721.8
72.5°	1.0	1.0	1.0	0.0	2.0	8.0	54.0	1147.9	1720.8	1924.8
75°	1.0	1.0	0.0	0.0	0.0	4.0	23.0	604.9	986.9	1083.9
77.5°	4.0	2.0	0.0	0.0	0.0	1.0	11.0	326.0	512.0	544.0
80°	1.0	0.0	0.0	0.0	0.0	0.0	4.0	109.0	307.0	314.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	132.0	126.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



REPORT NUMBER:

CATALOG NUMBER: ENV-SA1E-740-U-SLL-HSS-ULG

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
110°	121.7	123.8	122.8	116.6	104.3	89.0	75.7	69.6	67.9	67.5
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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