

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-SA1C-740-U-T2-HSS-ULG**

Issue Date: 3/30/2022

Test Information

Test Method: LM-79-08
Report Number: REPORT IS A COMBINATION OF REPORTS P401326 AND P226775
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1C-740-U-T2-HSS-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5187.9 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.1')
IES Classification: Type II - Medium
BUG Rating: B0 - U5 - G1

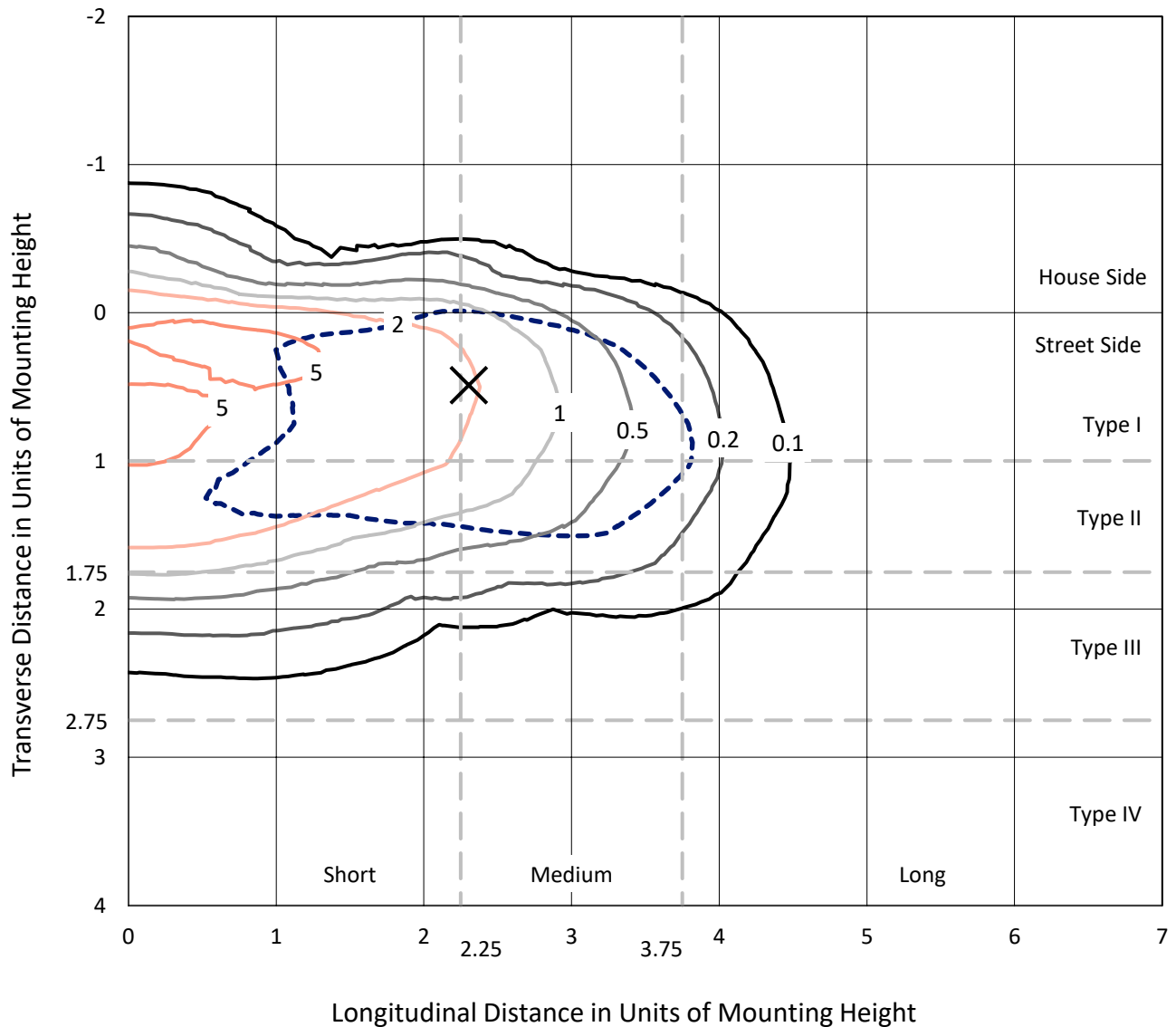
Input Watts (W): 50
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

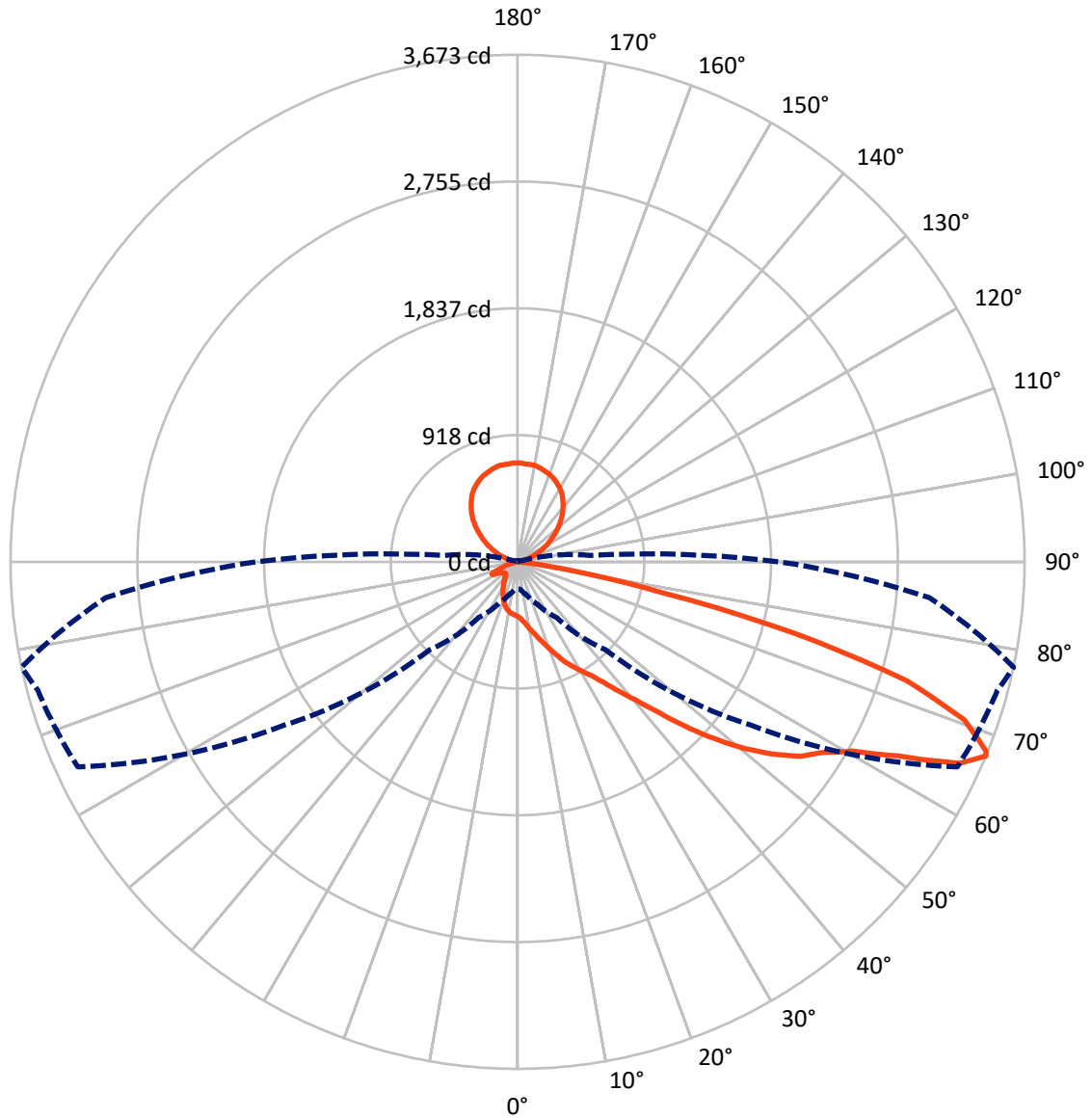
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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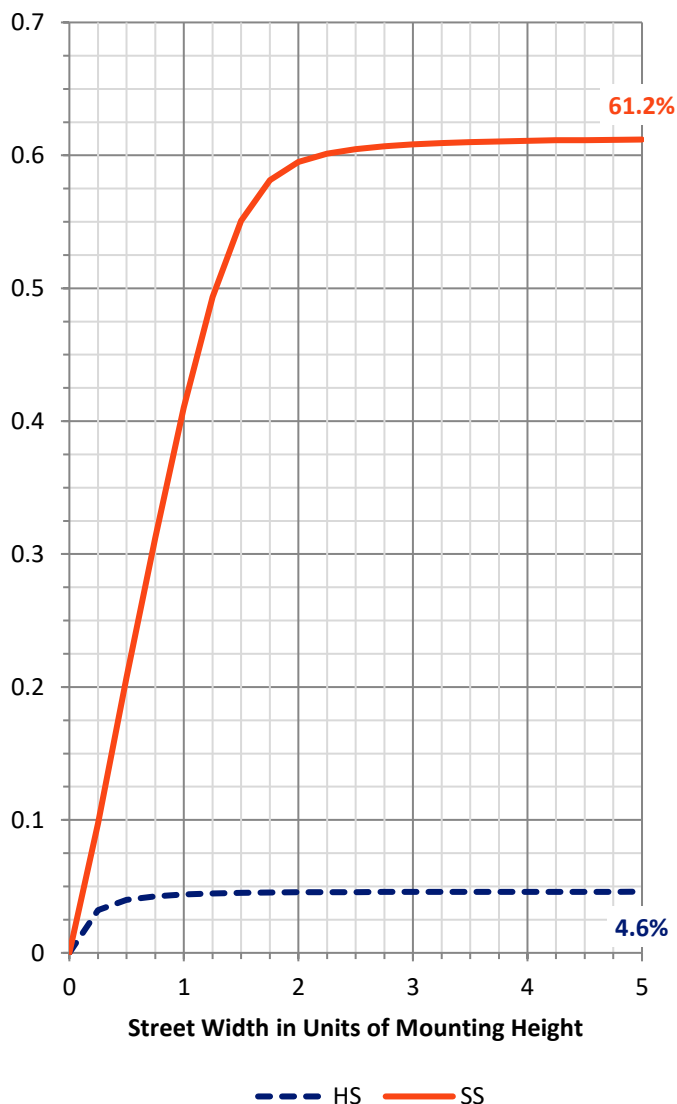
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	240.9	887.0	1127.8
	% Fixture	4.6	17.1	21.7
Street Side	Lumens	3173.1	887.0	4060.1
	% Fixture	61.2	17.1	78.3
Total	Lumens	3414.0	1773.9	5187.9
	% Fixture	65.8	34.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.2	0.7
10°-20°	109.4	2.1
20°-30°	193.4	3.7
30°-40°	340.9	6.6
40°-50°	585.9	11.3
50°-60°	882.0	17.0
60°-70°	868.0	16.7
70°-80°	379.3	7.3
80°-90°	16.8	0.3
90°-100°	8.4	0.2
100°-110°	58.7	1.1
110°-120°	169.9	3.3
120°-130°	279.4	5.4
130°-140°	344.6	6.6
140°-150°	352.5	6.8
150°-160°	297.0	5.7
160°-170°	195.5	3.8
170°-180°	67.8	1.3
0°-90°	3414.0	65.8
0°-180°	5187.9	100.0

Coefficient of Utilization

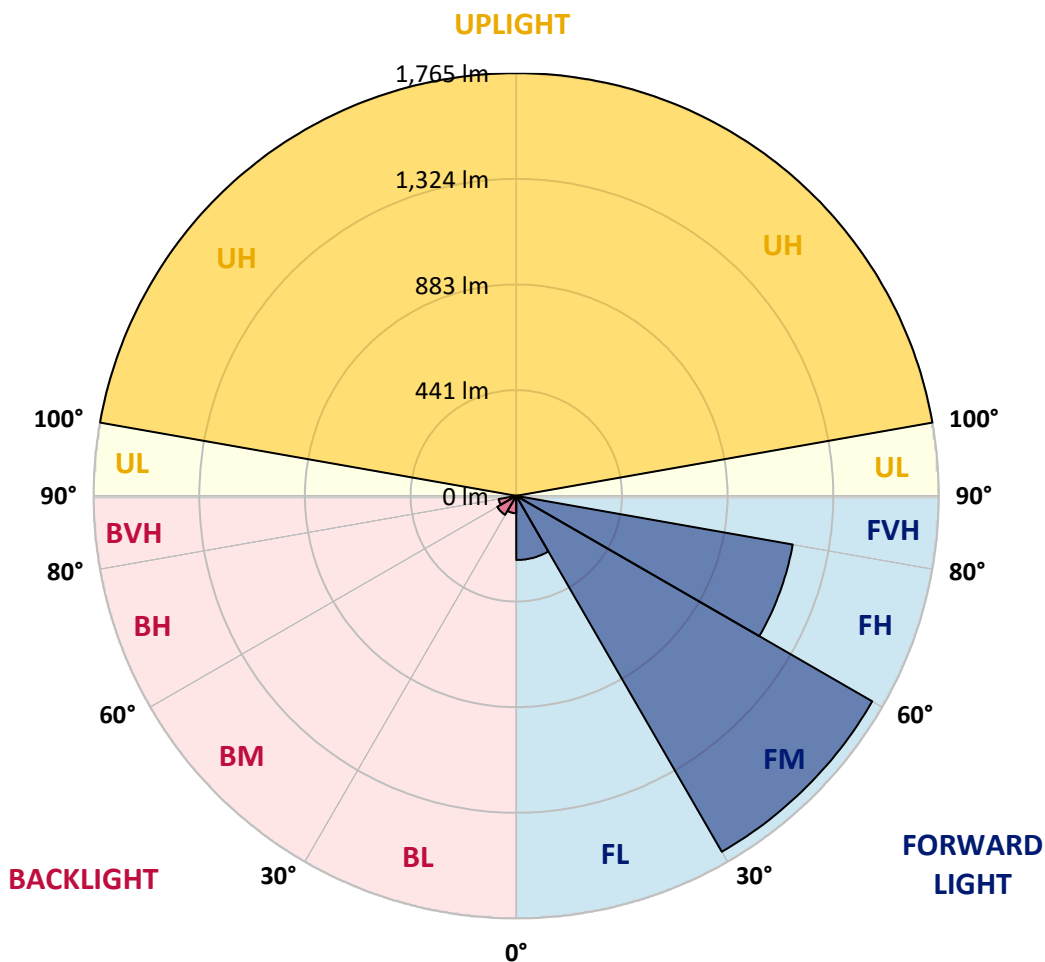


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	268.2	5.2			
FM (30°-60°)	1717.3	33.1			
FH (60°-80°)	1172.5	22.6			G1/1800
FVH (80°-90°)	15.1	0.3			G1/100
BL (0°-30°)	72.8	1.4	B0/110		
BM (30°-60°)	91.6	1.8	B0/220		
BH (60°-80°)	74.7	1.4	B0/110		G0/110
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	8.4	0.2		U1/10	
UH (100°-180°)	1765.5	34.0		U5	

BUG Rating: B0-U5-G1
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4
2.5°	454.8	456.7	454.1	452.2	447.1	440.6	434.2	424.6	414.3	410.5	404.1
5°	510.6	510.6	510.6	505.4	500.9	488.7	474.0	459.2	440.0	432.9	418.2
7.5°	540.1	540.7	542.6	542.6	540.1	531.7	515.7	499.0	470.1	460.5	436.8
10°	543.3	545.8	551.0	558.7	564.4	568.9	559.3	541.3	506.7	495.2	460.5
12.5°	534.9	536.2	544.5	558.7	577.3	595.9	596.5	585.6	547.1	531.1	489.4
15°	515.7	517.6	529.8	552.2	581.1	614.5	633.7	630.5	594.6	576.0	521.5
17.5°	484.9	486.8	502.2	535.6	577.9	626.6	667.7	683.7	641.4	623.4	554.2
20°	483.6	484.3	490.0	515.0	565.1	633.7	701.0	738.9	698.5	679.2	592.7
22.5°	565.7	560.6	547.8	531.7	553.5	631.8	731.2	797.3	769.0	738.9	636.9
25°	657.4	659.4	645.2	607.4	579.8	628.6	754.3	863.3	835.1	805.0	682.4
27.5°	753.6	750.4	738.3	703.6	657.4	651.7	771.0	916.6	898.6	862.0	722.9
30°	847.3	844.7	835.7	800.5	750.4	711.3	783.8	964.7	958.9	918.5	755.6
32.5°	954.4	958.9	947.3	901.2	840.2	792.1	811.4	1015.3	1032.0	982.6	789.6
35°	1078.8	1078.8	1055.1	1012.8	949.9	882.6	866.5	1071.1	1125.0	1071.8	843.4
37.5°	1181.5	1189.8	1175.7	1114.8	1055.7	985.2	950.6	1139.8	1239.8	1185.9	915.9
40°	1262.3	1276.4	1277.0	1216.7	1162.2	1116.0	1067.9	1236.6	1384.1	1314.9	1002.5
42.5°	1337.3	1339.9	1350.8	1316.2	1261.6	1249.4	1200.1	1351.4	1564.4	1482.9	1118.0
45°	1432.9	1438.0	1431.6	1405.9	1359.1	1375.2	1347.6	1497.0	1767.1	1698.4	1253.9
47.5°	1573.4	1585.5	1575.9	1529.7	1472.7	1502.8	1482.9	1642.0	1996.0	1912.7	1401.5
50°	1704.8	1714.5	1724.7	1710.0	1652.9	1624.0	1599.7	1795.3	2192.3	2121.7	1546.4
52.5°	1719.0	1727.9	1784.4	1836.3	1874.2	1798.5	1722.2	1950.5	2373.8	2314.8	1679.2
55°	1627.2	1633.0	1727.3	1829.9	2003.7	2029.4	1902.4	2103.8	2525.8	2485.4	1768.3
57.5°	1372.0	1396.3	1530.4	1687.5	1971.7	2166.6	2158.3	2282.1	2624.6	2606.0	1883.1
60°	901.2	928.1	1088.5	1326.4	1735.6	2130.1	2439.2	2549.6	2763.1	2783.7	2084.5
62.5°	466.9	498.4	639.5	850.5	1257.8	1854.9	2534.8	2988.9	3028.7	3098.6	2443.7
65°	266.8	273.2	343.8	498.4	778.7	1328.3	2420.0	3423.8	3378.3	3520.0	2902.3
67°	198.2	198.2	247.6	338.7	493.2	903.1	2064.0	3515.5	3598.3	3673.3	2994.7
67.5°	177.7	187.3	229.6	312.4	442.6	801.1	1931.3	3491.1	3612.4	3659.2	2962.6
70°	121.9	128.3	164.8	223.8	298.3	416.9	1266.1	3087.7	3480.2	3432.8	2684.9
72.5°	73.1	75.7	109.0	161.0	222.6	223.2	690.8	2343.7	2949.2	2948.5	2192.9
75°	45.5	48.1	64.1	107.8	155.9	139.8	319.4	1594.5	2117.9	2076.9	1469.4
77.5°	25.7	29.5	38.5	59.0	98.8	89.2	134.7	893.5	1144.3	1073.7	729.9
80°	10.3	12.2	21.8	28.2	55.8	53.2	55.2	314.3	463.1	417.6	244.4
82.5°	2.6	3.2	7.7	13.5	21.8	21.8	17.3	85.9	109.7	102.0	62.9
85°	0.0	0.0	0.6	0.6	0.6	1.3	4.5	9.6	11.5	13.5	10.3
87.5°	0.0	0.0	0.0	0.6	0.6	0.6	1.3	1.9	1.9	1.9	1.9
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	5.1	6.1	6.1	6.1	7.2	7.2	6.1	6.1	6.1
95°	5.1	5.1	6.1	7.2	7.2	7.2	7.2	8.2	7.2	7.2	7.2
97.5°	7.2	7.2	8.2	8.2	9.2	9.2	12.3	10.2	9.2	8.9	8.2
100°	8.2	8.2	9.2	10.2	12.3	21.5	29.7	26.6	23.5	22.3	19.4
102.5°	11.3	11.3	13.3	18.4	27.6	40.9	51.1	48.1	43.0	42.0	39.9
105°	21.5	22.5	27.6	36.8	49.1	64.4	73.7	71.6	66.5	65.3	62.4
107.5°	41.9	43.0	50.1	59.3	74.7	90.0	97.2	96.2	92.1	91.1	89.0



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CATALOG NUMBER: ENV-SA1C-740-U-T2-HSS-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	67.5	69.6	75.7	89.0	104.3	116.6	122.8	123.8	121.7	120.8	118.7
112.5°	101.3	101.3	108.4	123.8	137.1	146.3	151.4	153.4	152.4	151.8	150.4
115°	143.2	142.2	150.4	162.6	171.9	178.0	183.1	186.2	183.1	182.5	181.1
117.5°	188.2	188.2	193.3	201.5	206.6	209.7	215.8	219.9	214.8	214.2	212.8
120°	230.2	228.1	231.2	238.3	242.4	248.6	251.6	255.7	250.6	250.0	248.6
122.5°	269.0	266.0	267.0	273.1	277.2	283.4	285.4	289.5	284.4	283.8	282.3
125°	304.8	300.7	302.8	305.9	312.0	317.1	320.2	322.2	317.1	317.1	317.1
127.5°	337.6	336.6	336.6	340.6	346.8	347.8	352.9	353.9	353.9	353.6	352.9
130°	371.3	369.3	370.3	374.4	378.5	380.5	385.7	389.7	389.7	389.1	387.7
132.5°	405.1	403.0	402.0	410.2	413.3	414.3	420.4	425.5	423.5	423.5	423.5
135°	438.8	435.8	435.8	441.9	445.0	447.0	453.2	458.3	457.3	458.2	460.3
137.5°	470.6	467.5	469.5	470.6	474.6	478.7	483.9	485.9	486.9	488.5	492.0
140°	499.2	496.1	498.2	500.2	502.3	508.4	511.5	513.5	515.6	517.1	520.7
142.5°	529.9	526.8	528.9	529.9	533.0	537.0	539.1	545.2	545.2	545.5	546.3
145°	562.6	558.5	556.5	559.6	562.6	563.6	568.8	574.9	573.9	573.0	570.8
147.5°	588.2	585.1	584.1	587.2	587.2	588.2	593.3	598.4	599.4	598.5	596.4
150°	608.7	605.6	606.6	606.6	606.6	606.6	610.7	613.8	616.8	617.8	619.9
152.5°	625.0	622.0	622.0	623.0	624.0	624.0	625.0	628.1	632.2	633.7	637.3
155°	643.4	639.3	639.3	641.4	644.5	642.4	640.4	645.5	650.6	651.2	652.6
157.5°	660.8	657.8	657.8	658.8	660.8	659.8	658.8	662.9	664.9	664.9	664.9
160°	678.2	675.1	674.1	671.1	670.0	670.0	673.1	679.2	676.2	675.9	675.1
162.5°	688.4	684.4	684.4	680.3	676.2	678.2	682.3	686.4	685.4	684.8	683.3
165°	696.6	693.6	691.5	691.5	688.4	688.4	687.4	692.5	695.6	695.0	693.6
167.5°	705.8	702.8	699.7	701.7	703.8	700.7	693.6	699.7	703.8	703.8	703.8
170°	714.0	711.0	707.9	707.9	708.9	706.9	701.7	704.8	709.9	710.5	712.0
172.5°	715.0	713.0	711.0	708.9	705.8	705.8	704.8	707.9	709.9	710.5	712.0
175°	716.1	714.0	713.0	711.0	706.9	705.8	705.8	711.0	712.0	711.4	709.9
177.5°	723.2	721.2	716.1	715.0	713.0	711.0	709.9	715.0	717.1	716.2	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°	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4
2.5°	399.0	394.5	385.5	375.9	366.2	358.5	352.1	343.1	341.9	341.9	341.9
5°	407.3	397.0	376.5	356.0	335.5	316.9	303.4	292.5	282.9	279.7	282.2
7.5°	419.5	400.9	365.0	329.0	297.0	270.7	251.4	236.0	229.0	225.1	221.9
10°	435.5	406.6	349.6	297.0	256.6	225.1	204.6	189.9	182.8	178.3	179.0
12.5°	452.8	411.1	330.3	262.3	217.4	188.6	171.3	159.1	147.5	140.5	142.4
15°	470.1	414.3	306.6	230.3	187.3	161.6	137.3	115.5	107.8	106.5	105.8
17.5°	489.4	413.7	280.3	200.1	161.6	125.7	101.3	98.8	98.1	98.1	97.5
20°	509.3	410.5	250.1	175.1	136.0	95.6	91.7	90.4	88.5	87.9	87.2
22.5°	531.1	404.7	222.6	153.3	101.3	87.2	82.1	78.3	75.0	73.1	73.8
25°	551.0	393.8	195.6	132.8	86.6	78.3	71.2	65.4	62.2	59.7	60.3
27.5°	564.4	374.6	172.5	107.1	79.5	69.3	60.9	55.2	50.7	48.7	48.7
30°	565.7	347.0	152.0	87.9	72.5	60.9	52.0	45.5	43.0	41.7	41.0
32.5°	564.4	318.8	136.6	80.8	66.1	53.2	44.3	39.8	37.2	35.9	35.9
35°	570.8	289.9	122.5	74.4	59.0	46.8	39.1	34.6	32.7	31.4	31.4
37.5°	590.1	270.0	107.8	68.0	52.6	41.0	35.3	31.4	29.5	28.2	28.2
40°	616.4	253.4	89.8	61.6	46.2	37.2	32.1	28.9	26.3	25.0	25.0
42.5°	662.6	246.9	75.0	55.2	40.4	33.4	29.5	25.7	23.1	21.8	21.8
45°	731.2	250.1	68.6	49.4	36.6	30.1	26.3	22.4	19.9	19.2	19.2
47.5°	806.9	263.6	64.1	44.3	33.4	28.2	23.7	19.9	17.3	16.7	16.7
50°	891.5	284.8	60.3	39.1	30.1	25.7	21.2	17.3	15.4	14.8	14.8
52.5°	972.4	311.7	56.4	35.3	28.2	23.1	18.6	15.4	14.1	13.5	13.5
55°	1033.9	329.0	53.2	32.7	26.3	21.2	16.7	14.8	12.8	12.2	12.2
57.5°	1119.9	357.9	49.4	29.5	23.7	19.2	15.4	13.5	11.5	11.5	11.5
60°	1294.3	435.5	43.6	26.9	21.2	17.3	14.8	12.2	10.9	10.3	10.3
62.5°	1608.6	563.8	37.8	25.0	18.6	15.4	12.8	10.9	9.6	8.3	8.3
65°	1911.4	617.0	32.1	21.8	16.7	13.5	11.5	9.6	7.1	5.8	5.8
67°	1894.7	527.9	26.9	18.6	14.1	12.2	9.6	7.7	5.1	3.2	3.2
67.5°	1849.8	491.3	26.3	18.0	13.5	11.5	9.6	7.1	4.5	2.6	2.6
70°	1572.1	343.8	20.5	14.1	11.5	10.3	7.7	5.1	2.6	1.3	1.3
72.5°	1277.0	272.6	16.0	11.5	9.6	7.7	6.4	3.2	1.9	0.6	0.6
75°	903.1	167.4	14.1	10.3	7.7	5.8	5.1	3.2	1.9	1.3	0.6
77.5°	445.8	77.0	11.5	9.0	7.1	5.8	4.5	3.8	3.2	2.6	1.3
80°	130.8	25.0	7.7	6.4	6.4	5.8	5.1	4.5	3.8	3.2	1.9
82.5°	29.5	9.0	2.6	3.2	4.5	4.5	4.5	3.2	2.6	1.3	0.6
85°	3.8	1.9	1.9	1.9	2.6	2.6	1.9	1.3	1.3	0.0	0.0
87.5°	1.3	1.3	1.3	1.9	1.9	1.9	1.3	0.6	0.6	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°	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-SA1C-740-U-T2-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

(END OF REPORT)