

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: **ENT-SA1D-740-U-SLR-HSS-ULG**

Issue Date: 3/30/2022

Test Information

Test Method: LM-79-08
Report Number: REPORT IS A COMBINATION OF REPORTS P401502 AND P226775
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1D-740-U-SLR-HSS-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6018.9 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.1')
IES Classification: Type IV - Short
BUG Rating: B1 - U5 - G1

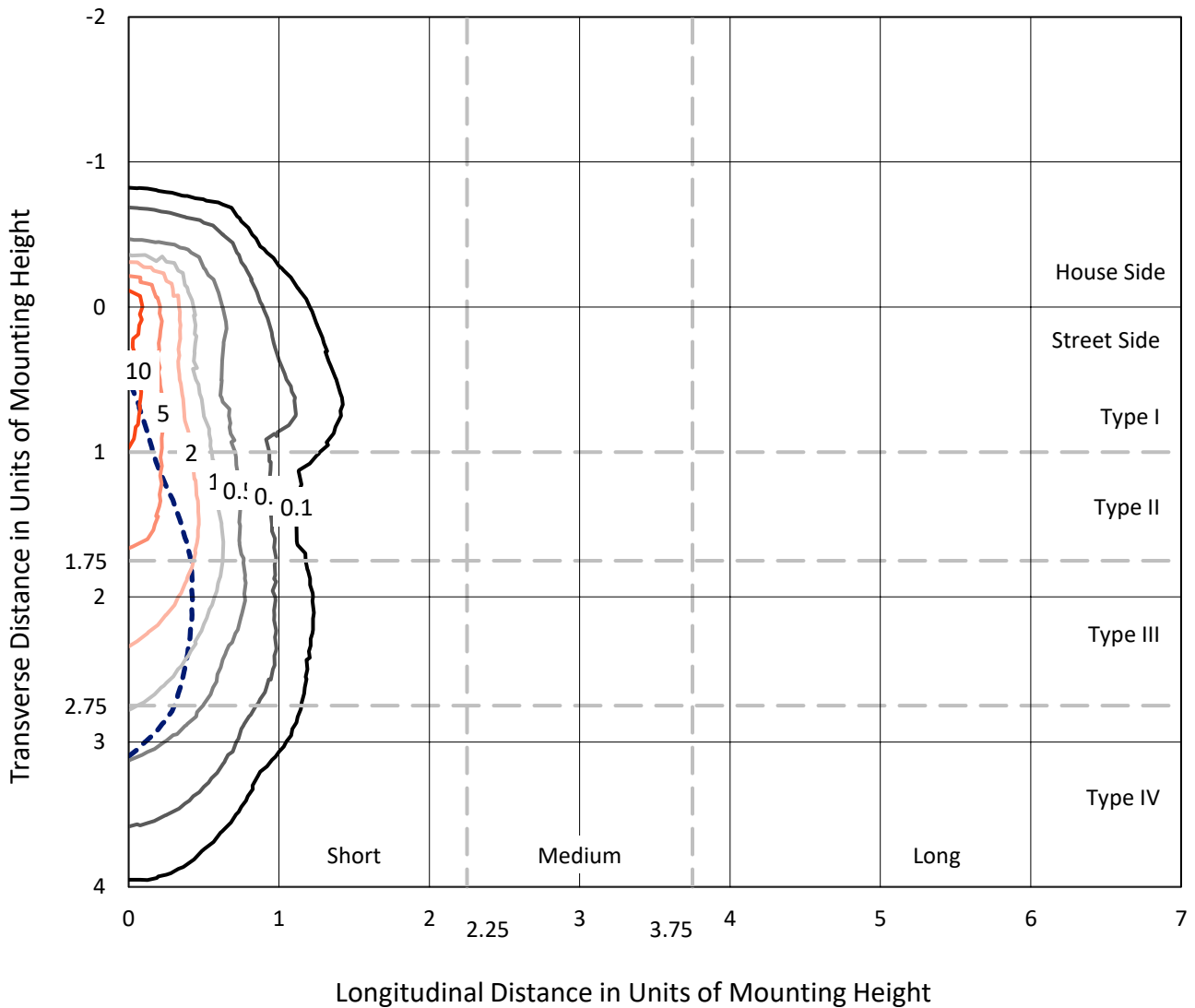
Input Watts (W): 59.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

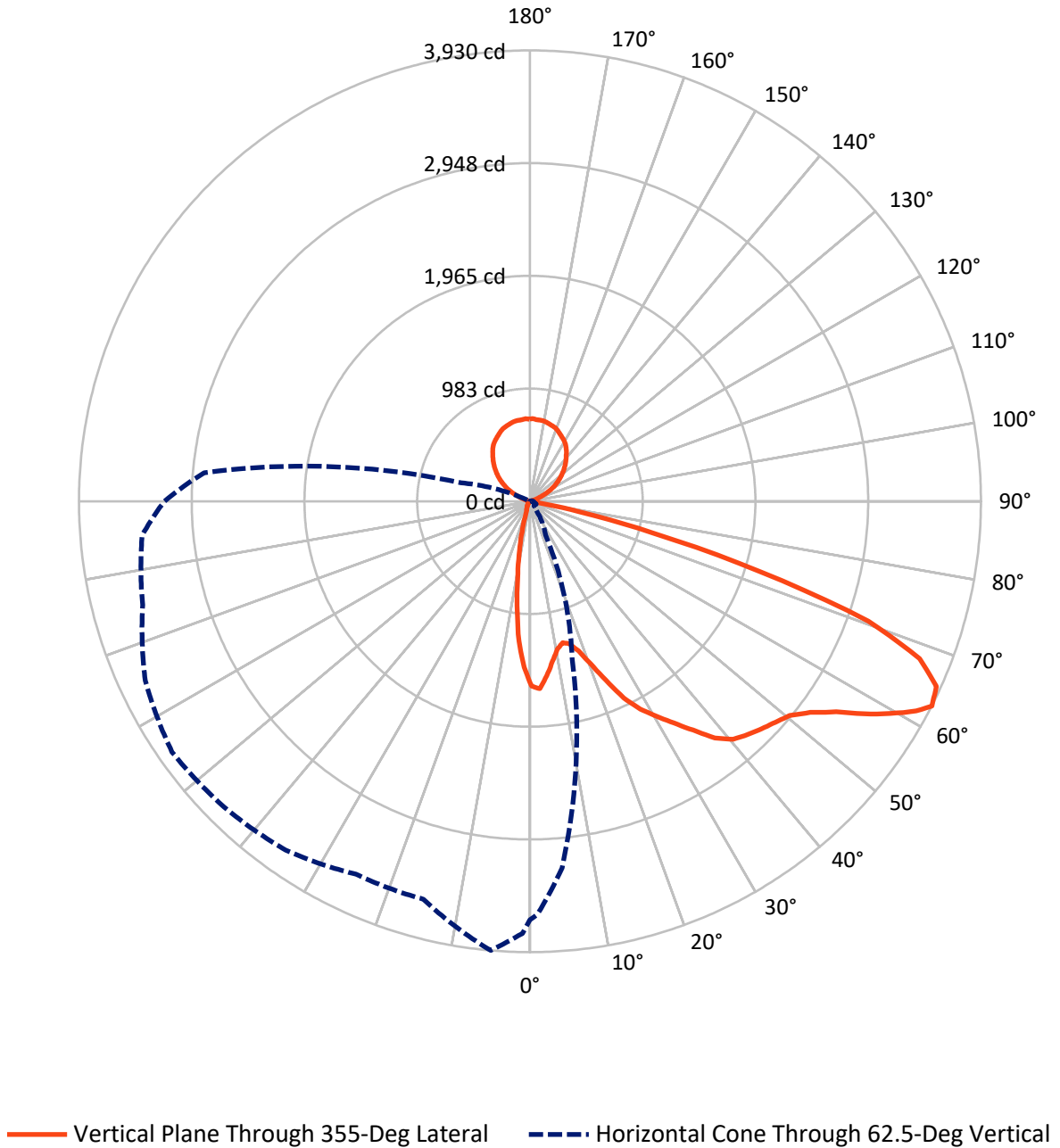
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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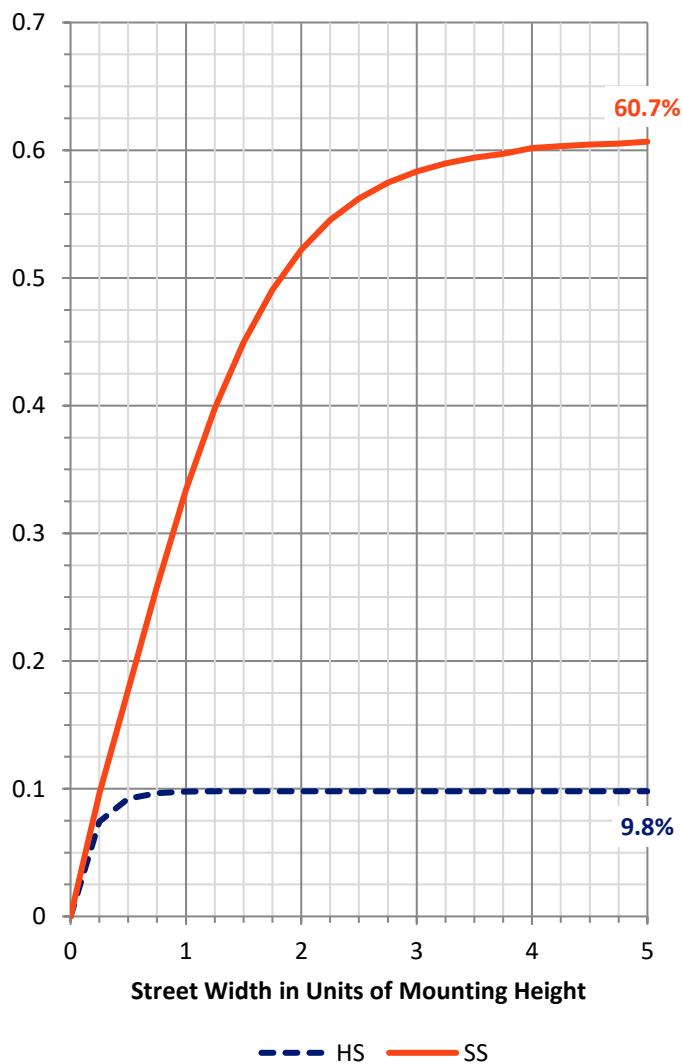
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	597.1	887.0	1484.1
	% Fixture	9.9	14.7	24.7
Street Side	Lumens	3647.9	887.0	4534.8
	% Fixture	60.6	14.7	75.3
Total	Lumens	4245.0	1773.9	6018.9
	% Fixture	70.5	29.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	2.0
10°-20°	229.5	3.8
20°-30°	319.4	5.3
30°-40°	461.9	7.7
40°-50°	662.3	11.0
50°-60°	960.8	16.0
60°-70°	1039.5	17.3
70°-80°	419.8	7.0
80°-90°	31.1	0.5
90°-100°	8.4	0.1
100°-110°	58.7	1.0
110°-120°	169.9	2.8
120°-130°	279.4	4.6
130°-140°	344.6	5.7
140°-150°	352.5	5.9
150°-160°	297.0	4.9
160°-170°	195.5	3.2
170°-180°	67.8	1.1
0°-90°	4245.0	70.5
0°-180°	6018.9	100.0

Coefficient of Utilization

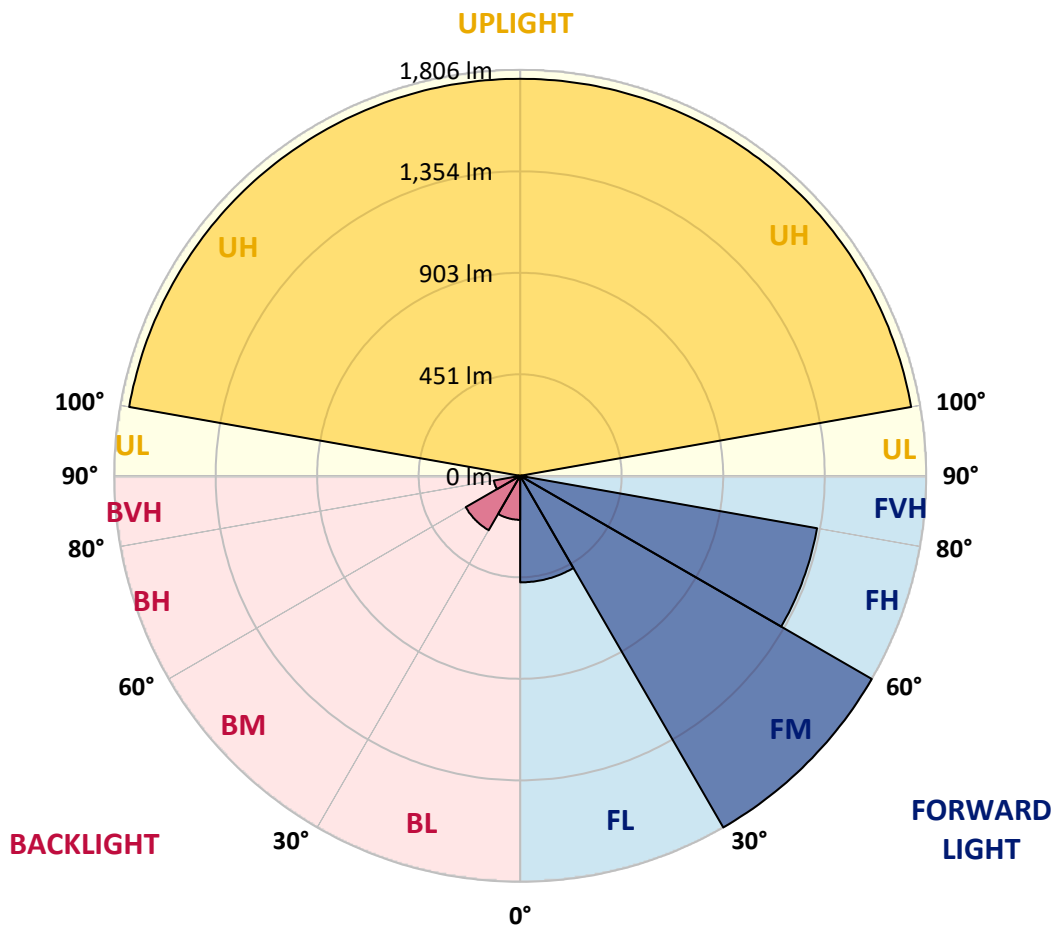


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	473.9	7.9			
FM (30°-60°)	1805.5	30.0			
FH (60°-80°)	1340.6	22.3			G1/1800
FVH (80°-90°)	27.9	0.5			G1/100
BL (0°-30°)	195.8	3.3	B1/500		
BM (30°-60°)	279.4	4.6	B1/1000		
BH (60°-80°)	118.8	2.0	B1/500		G1/500
BVH (80°-90°)	3.2	0.1			G0/10
UL (90°-100°)	8.4	0.1		U1/10	
UH (100°-180°)	1765.5	29.3		U5	

BUG Rating: B1-U5-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2
2.5°	1616.9	1610.2	1595.1	1562.3	1515.3	1485.1	1465.7	1440.5	1414.5	1406.1	1389.3
5°	1475.8	1464.9	1443.9	1361.6	1287.7	1213.8	1160.8	1110.4	1093.6	1060.0	1080.2
7.5°	1339.7	1334.7	1286.0	1179.3	1061.7	966.8	906.3	832.4	810.6	776.1	748.4
10°	1233.1	1228.9	1170.1	1030.6	903.8	824.8	777.0	729.1	681.2	632.5	593.9
12.5°	1179.3	1170.1	1102.0	951.7	834.1	768.6	718.2	654.3	603.1	537.6	490.5
15°	1187.7	1179.3	1101.2	939.1	800.5	709.8	635.0	559.4	487.2	422.5	376.3
17.5°	1254.9	1251.6	1156.6	950.0	760.2	640.1	540.1	438.5	352.8	283.1	243.6
20°	1385.9	1375.9	1238.1	973.5	718.2	559.4	422.5	297.3	226.0	178.1	161.3
22.5°	1548.1	1525.4	1366.6	1008.0	677.9	472.9	305.7	199.9	161.3	142.8	131.0
25°	1738.7	1739.6	1526.2	1054.2	637.5	392.3	214.2	158.8	136.1	122.6	112.6
27.5°	1893.3	1881.5	1669.9	1100.4	593.9	321.7	179.8	138.6	119.3	105.0	99.1
30°	2007.5	1989.9	1764.8	1132.3	537.6	272.1	161.3	131.9	112.6	96.6	89.0
32.5°	2125.1	2103.3	1850.4	1149.9	504.0	248.6	142.8	115.1	100.8	94.1	84.0
35°	2262.9	2243.6	1945.4	1148.2	486.3	235.2	129.4	104.2	85.7	74.8	68.0
37.5°	2416.6	2377.1	2043.6	1140.7	473.7	228.5	117.6	96.6	79.8	68.0	59.6
40°	2548.5	2509.0	2134.4	1130.6	465.3	221.8	110.9	91.6	75.6	63.0	54.6
42.5°	2651.8	2614.0	2219.2	1118.0	461.1	207.5	114.2	88.2	72.2	59.6	50.4
45°	2740.8	2702.2	2320.0	1116.3	459.5	197.4	112.6	87.4	70.6	55.4	47.0
47.5°	2844.1	2824.0	2452.7	1144.0	452.7	189.8	103.3	94.1	69.7	53.8	44.5
50°	2997.0	2979.4	2626.6	1226.4	442.7	182.3	94.1	103.3	69.7	52.1	42.0
52.5°	3211.2	3191.0	2900.4	1333.9	433.4	173.9	84.8	100.0	70.6	49.6	40.3
55°	3432.9	3429.6	3159.1	1448.1	425.0	155.4	74.8	89.9	68.9	46.2	37.8
57.5°	3606.8	3604.3	3353.1	1525.4	409.1	125.2	68.0	74.8	63.8	42.0	34.4
60°	3678.2	3657.2	3374.1	1525.4	372.1	103.3	62.2	58.8	64.7	37.8	30.2
61°	3678.2	3651.3	3336.3	1502.7	353.6	98.3	58.8	54.6	66.4	36.1	28.6
62.5°	3649.7	3605.1	3207.0	1421.2	324.2	98.3	53.8	48.7	60.5	34.4	26.0
65°	3522.8	3449.7	2903.8	1235.6	294.0	100.8	46.2	41.2	43.7	29.4	22.7
67.5°	3209.5	3127.2	2510.7	977.7	269.6	106.7	38.6	36.1	33.6	26.0	20.2
70°	2644.2	2574.5	2048.7	732.5	250.3	108.4	33.6	30.2	28.6	22.7	17.6
72.5°	1690.0	1574.9	1279.3	496.4	200.8	94.1	27.7	28.6	26.0	18.5	14.3
75°	816.4	848.4	744.2	250.3	135.2	61.3	21.8	23.5	21.0	16.8	12.6
77.5°	365.4	358.7	355.3	63.8	34.4	21.0	13.4	16.0	16.8	15.1	10.9
80°	37.8	51.2	30.2	19.3	12.6	9.2	7.6	8.4	10.1	10.9	5.9
82.5°	1.7	0.8	0.8	2.5	2.5	1.7	0.0	0.0	1.7	1.7	0.8
85°	0.0	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	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	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: ENT-SA1D-740-U-SLR-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°	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2
2.5°	1374.2	1396.9	1386.8	1384.3	1397.7	1391.0	1411.1	1412.0	1427.1	1447.3	1459.9
5°	1080.2	1062.6	1097.8	1121.4	1150.8	1141.5	1176.8	1172.6	1191.9	1223.8	1211.2
7.5°	750.1	752.6	771.1	792.1	871.0	887.0	898.8	908.0	907.2	914.7	928.2
10°	573.7	559.4	546.8	576.2	607.3	641.7	646.8	659.4	624.9	639.2	645.9
12.5°	469.5	452.7	425.0	409.9	417.5	437.6	446.0	453.6	433.4	434.3	449.4
15°	356.1	333.5	322.5	302.4	294.8	293.1	297.3	286.4	283.9	274.7	280.5
17.5°	231.8	225.1	219.2	215.0	209.2	207.5	192.4	166.3	151.2	147.8	147.8
20°	154.6	149.5	149.5	157.9	155.4	148.7	128.5	106.7	95.8	92.4	94.1
22.5°	126.8	123.5	118.4	118.4	121.8	116.8	98.3	82.3	74.8	74.8	74.8
25°	110.0	108.4	103.3	98.3	100.0	95.8	79.8	69.7	64.7	63.8	64.7
27.5°	96.6	95.8	89.9	84.8	84.8	81.5	68.9	59.6	56.3	54.6	55.4
30°	87.4	85.7	79.0	74.8	73.9	70.6	58.8	52.1	48.7	47.9	47.9
32.5°	80.6	77.3	71.4	67.2	64.7	59.6	51.2	44.5	41.2	40.3	40.3
35°	64.7	64.7	62.2	59.6	56.3	48.7	42.8	37.0	33.6	32.8	32.8
37.5°	56.3	52.9	48.7	49.6	47.9	41.2	35.3	29.4	26.9	26.0	26.0
40°	51.2	47.0	41.2	38.6	39.5	36.1	29.4	22.7	19.3	20.2	19.3
42.5°	46.2	42.8	36.1	30.2	29.4	30.2	22.7	16.0	13.4	13.4	13.4
45°	42.8	39.5	31.9	25.2	21.0	23.5	17.6	10.9	8.4	8.4	8.4
47.5°	40.3	37.0	28.6	21.0	15.1	16.0	12.6	6.7	5.0	3.4	4.2
50°	38.6	34.4	26.0	16.8	10.9	9.2	8.4	3.4	0.8	0.8	0.0
52.5°	36.1	32.8	23.5	14.3	8.4	5.9	4.2	0.8	0.0	0.0	0.0
55°	34.4	30.2	21.0	12.6	6.7	3.4	0.8	0.0	0.0	0.0	0.0
57.5°	31.1	27.7	18.5	10.1	5.0	1.7	0.0	0.0	0.0	0.0	0.0
60°	27.7	25.2	16.0	7.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0
61°	26.0	23.5	15.1	6.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	24.4	21.8	13.4	5.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	21.0	18.5	11.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	18.5	16.8	10.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	16.0	14.3	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	13.4	12.6	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	11.8	10.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.2	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	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	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: ENT-SA1D-740-U-SLR-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: ENT-SA1D-740-U-SLR-HSS-ULG

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2
2.5°	1471.6	1501.0	1528.7	1564.0	1583.3	1636.3	1674.1	1706.0	1731.2	1736.2	1756.4
5°	1244.8	1286.0	1312.9	1386.8	1427.9	1516.1	1584.2	1664.8	1737.1	1776.5	1812.6
7.5°	937.4	957.6	1003.8	1077.7	1175.1	1251.6	1366.6	1468.3	1598.5	1669.9	1737.1
10°	661.9	680.4	748.4	825.7	914.7	1043.2	1182.7	1316.2	1448.1	1539.7	1618.6
12.5°	465.3	525.8	593.0	691.3	778.6	872.7	1021.4	1177.6	1342.3	1429.6	1515.3
15°	305.7	359.5	452.7	576.2	685.4	777.0	915.6	1098.7	1307.8	1405.3	1486.7
17.5°	151.2	190.7	273.0	405.7	551.0	695.5	862.6	1084.4	1352.3	1462.4	1538.8
20°	94.9	106.7	136.9	229.3	396.5	609.8	823.2	1113.0	1473.3	1595.1	1644.7
22.5°	76.4	79.8	91.6	121.8	241.9	504.0	788.7	1151.6	1606.0	1754.7	1805.9
25°	65.5	68.0	74.8	89.9	140.3	378.0	746.7	1219.6	1760.6	1940.3	1952.9
27.5°	56.3	58.8	64.7	76.4	100.0	254.5	686.3	1299.4	1945.4	2103.3	2094.9
30°	47.9	51.2	57.1	65.5	79.0	172.2	573.7	1380.1	2081.4	2208.3	2194.8
32.5°	41.2	43.7	48.7	56.3	65.5	118.4	430.9	1433.0	2194.8	2307.4	2278.0
35°	33.6	36.1	40.3	47.0	52.9	84.0	325.9	1434.7	2311.6	2430.0	2356.1
37.5°	26.9	28.6	32.8	38.6	43.7	65.5	239.4	1406.9	2456.1	2589.6	2445.1
40°	20.2	22.7	26.9	31.9	37.0	55.4	178.9	1339.7	2597.2	2749.2	2552.7
42.5°	13.4	16.8	21.0	26.0	35.3	44.5	126.0	1228.0	2711.4	2891.2	2657.7
45°	8.4	10.9	16.0	21.8	36.1	35.3	84.0	1094.5	2792.9	2999.5	2729.1
47.5°	4.2	6.7	11.8	21.0	31.9	26.0	52.1	966.8	2866.8	3062.5	2761.8
50°	0.8	2.5	8.4	26.0	26.9	19.3	34.4	887.0	2905.4	3046.6	2758.5
52.5°	0.0	0.0	5.9	25.2	19.3	15.1	26.9	875.2	2965.9	3067.6	2816.4
55°	0.0	0.0	2.5	10.9	10.9	12.6	23.5	859.3	3073.4	3192.7	2991.1
57.5°	0.0	0.0	0.0	5.0	6.7	10.1	21.8	817.3	3186.8	3325.4	3203.6
60°	0.0	0.0	0.0	2.5	4.2	8.4	19.3	721.5	3082.7	3326.3	3380.0
61°	0.0	0.0	0.0	2.5	3.4	7.6	17.6	687.9	2989.4	3272.5	3401.9
62.5°	0.0	0.0	0.0	0.8	2.5	5.9	15.1	621.6	2850.0	3186.0	3391.8
65°	0.0	0.0	0.0	0.0	0.8	3.4	11.8	502.3	2617.3	2968.4	3275.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.8	7.6	353.6	2283.0	2722.3	3028.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	205.0	1839.5	2304.9	2593.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	93.2	1193.6	1779.9	2046.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.5	735.0	1286.0	1528.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.6	498.1	855.9	1029.0
80°	0.0	1.7	0.8	0.0	0.0	0.0	0.0	6.7	306.6	534.2	580.4
82.5°	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	158.8	377.1	384.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.4	79.8
87.5°	0.0	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	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:

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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: ENT-SA1D-740-U-SLR-HSS-ULG

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2	1610.2
2.5°	1774.9	1779.9	1783.3	1777.4	1741.3	1721.1	1680.8	1636.3	1621.1	1616.9
5°	1878.2	1906.7	1901.7	1863.0	1800.0	1722.8	1627.0	1527.9	1490.1	1475.8
7.5°	1858.0	1932.8	1947.0	1906.7	1800.0	1664.8	1526.2	1408.6	1354.0	1339.7
10°	1755.5	1849.6	1895.0	1882.4	1782.4	1626.2	1455.7	1311.2	1251.6	1233.1
12.5°	1656.4	1747.1	1775.7	1785.8	1731.2	1595.9	1420.4	1265.0	1202.8	1179.3
15°	1590.1	1646.3	1644.7	1663.1	1658.9	1584.2	1443.1	1288.5	1218.8	1187.7
17.5°	1568.2	1551.4	1529.6	1544.7	1574.1	1587.5	1517.0	1372.5	1291.0	1254.9
20°	1581.7	1499.3	1451.5	1450.6	1512.8	1615.3	1625.3	1511.1	1434.7	1385.9
22.5°	1650.5	1473.3	1399.4	1401.1	1477.5	1656.4	1750.5	1692.5	1608.5	1548.1
25°	1752.2	1478.3	1379.2	1389.3	1474.1	1692.5	1885.7	1899.2	1791.6	1738.7
27.5°	1855.5	1522.0	1380.1	1391.0	1488.4	1711.9	1963.0	2051.2	1958.8	1893.3
30°	1927.7	1575.8	1395.2	1406.9	1511.1	1727.0	1992.4	2176.4	2080.6	2007.5
32.5°	1995.8	1631.2	1419.5	1431.3	1556.5	1758.1	2047.8	2302.4	2197.4	2125.1
35°	2062.1	1685.8	1464.9	1485.9	1629.5	1814.3	2104.1	2450.2	2362.8	2262.9
37.5°	2119.2	1746.3	1543.0	1587.5	1728.7	1900.8	2180.6	2618.2	2528.3	2416.6
40°	2167.1	1817.7	1704.3	1753.9	1879.8	1992.4	2265.4	2728.2	2668.6	2548.5
42.5°	2205.8	1943.7	1935.3	2005.0	2093.2	2097.4	2289.8	2781.1	2758.5	2651.8
45°	2270.4	2169.6	2238.5	2352.7	2346.9	2223.4	2283.0	2829.8	2831.5	2740.8
47.5°	2376.3	2452.7	2651.8	2729.1	2689.6	2395.6	2289.8	2877.7	2915.5	2844.1
50°	2527.5	2773.6	3034.0	3136.4	3021.4	2568.6	2349.4	2934.8	3049.1	2997.0
52.5°	2656.8	3016.3	3386.7	3478.3	3321.2	2753.4	2488.8	3058.3	3228.0	3211.2
55°	2841.6	3225.5	3637.9	3708.5	3582.5	2962.6	2676.1	3239.8	3424.5	3432.9
57.5°	3030.6	3414.5	3801.7	3873.1	3777.3	3223.0	2942.4	3500.1	3609.3	3606.8
60°	3240.6	3590.9	3875.6	3915.1	3860.5	3483.3	3228.8	3738.7	3736.2	3678.2
61°	3360.7	3647.1	3870.6	3882.3	3829.4	3559.8	3376.7	3830.3	3754.7	3678.2
62.5°	3493.4	3698.4	3808.4	3768.9	3711.8	3586.7	3590.9	3930.2	3767.3	3649.7
65°	3627.8	3569.9	3522.0	3333.0	3279.2	3339.7	3771.5	3892.4	3690.8	3522.8
67.5°	3397.7	3059.2	2955.8	2766.0	2553.5	2800.5	3600.1	3661.4	3432.9	3209.5
70°	2776.9	2247.8	2125.1	2118.4	1965.5	2236.8	3175.1	3130.6	2849.2	2644.2
72.5°	2176.4	1533.8	1366.6	1405.3	1375.0	1667.3	2597.2	2100.8	1826.9	1690.0
75°	1706.0	1090.3	940.8	934.0	901.3	1135.6	1901.7	1107.1	913.9	816.4
77.5°	1125.6	785.4	782.8	723.2	698.0	615.7	853.4	443.5	362.0	365.4
80°	648.5	481.3	564.5	447.7	448.5	361.2	345.2	64.7	52.1	37.8
82.5°	372.1	231.0	174.7	68.9	144.5	144.5	27.7	0.8	0.8	1.7
85°	36.1	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.8	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: ENT-SA1D-740-U-SLR-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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