

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-SA1C-740-U-T3-HSS-ULG**

Issue Date: 3/30/2022

**Test Information**

Test Method: LM-79-08  
Report Number: REPORT IS A COMBINATION OF REPORTS P401330 AND P226775  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENT-SA1C-740-U-T3-HSS-ULG  
Description: ENTRI LED LUMINAIRE WITH UPLIGHT  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5239.9 lumens  
Efficiency: N/A  
Efficacy: 104.8 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

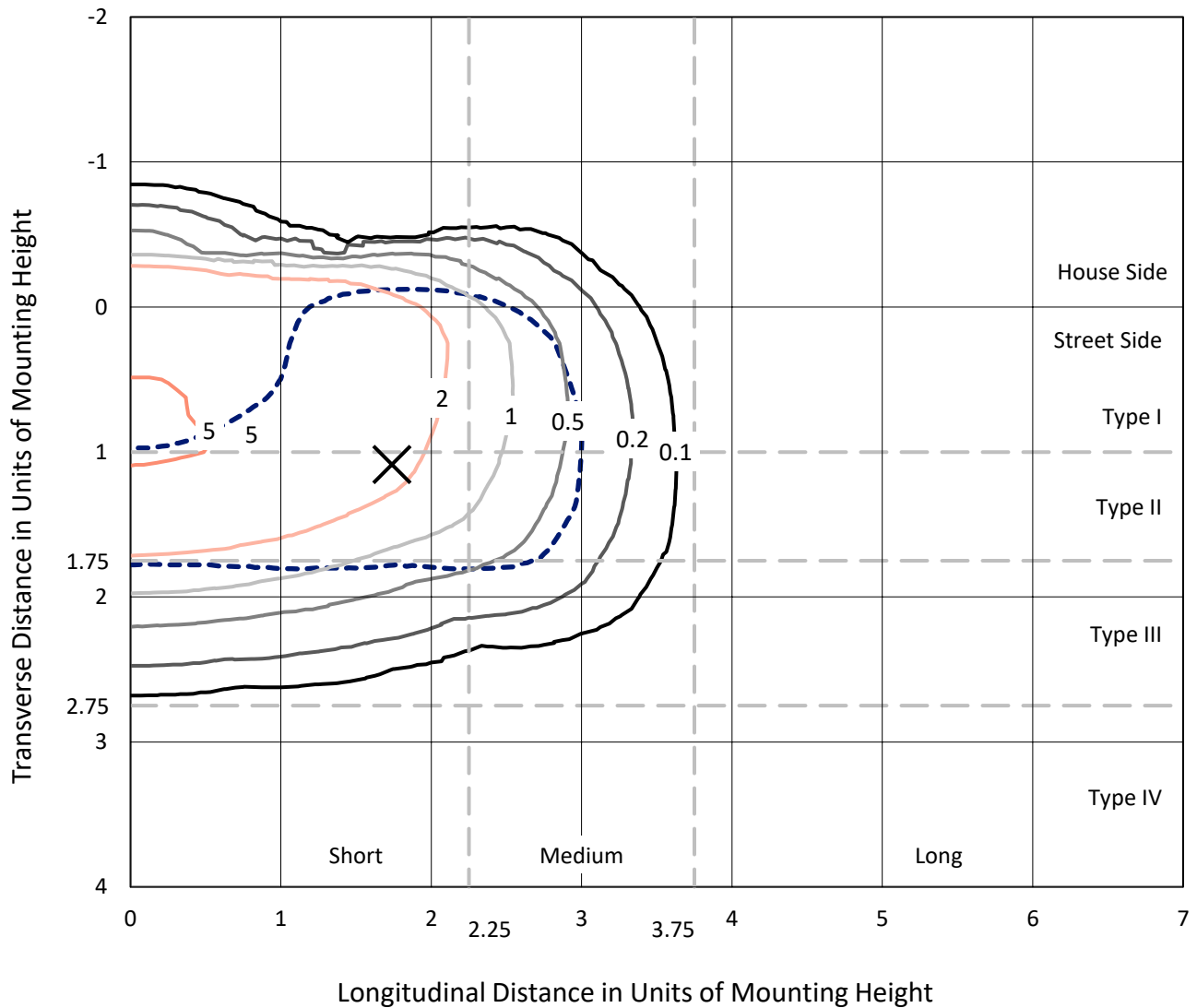
Input Watts (W): 50  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

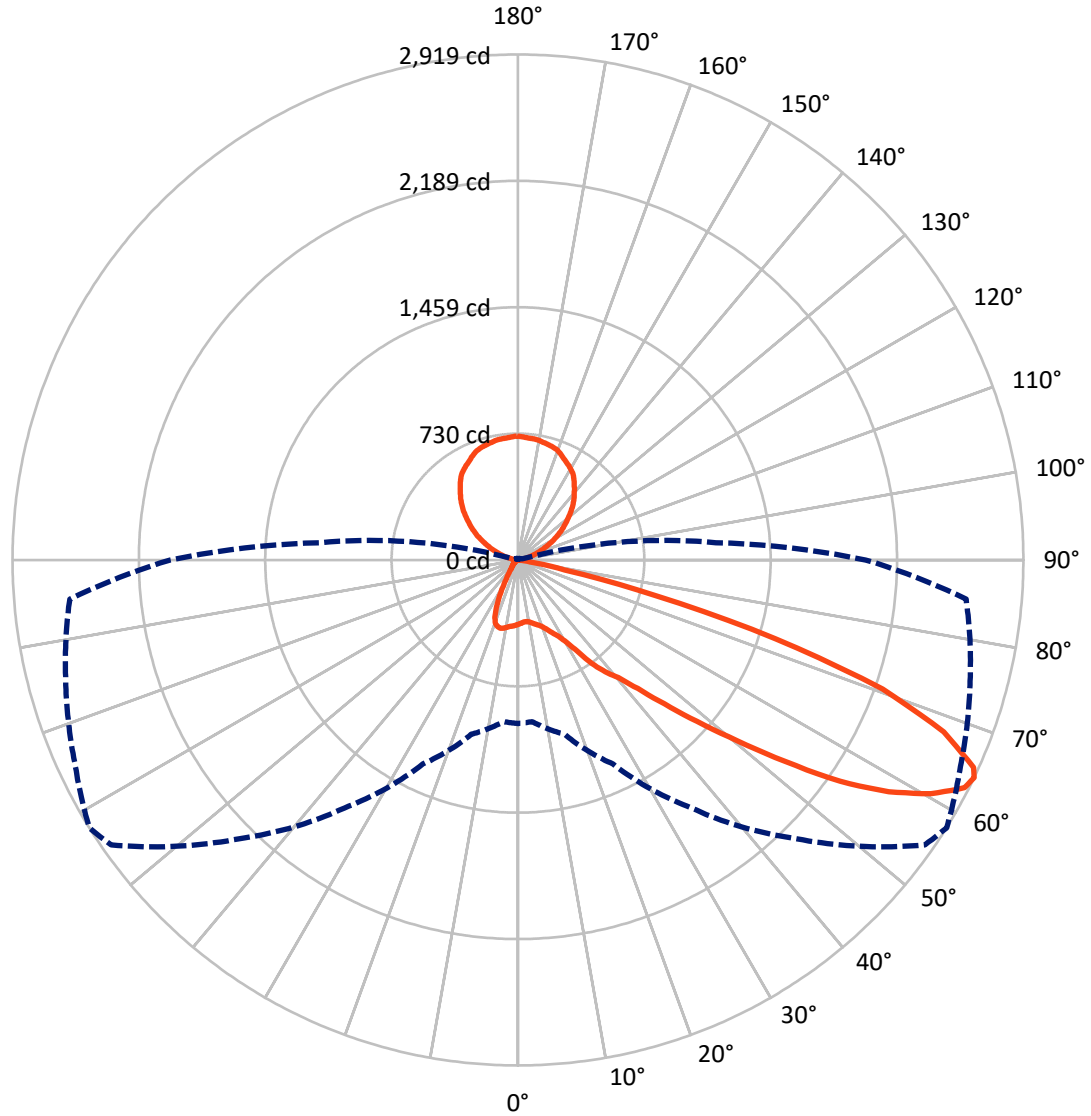
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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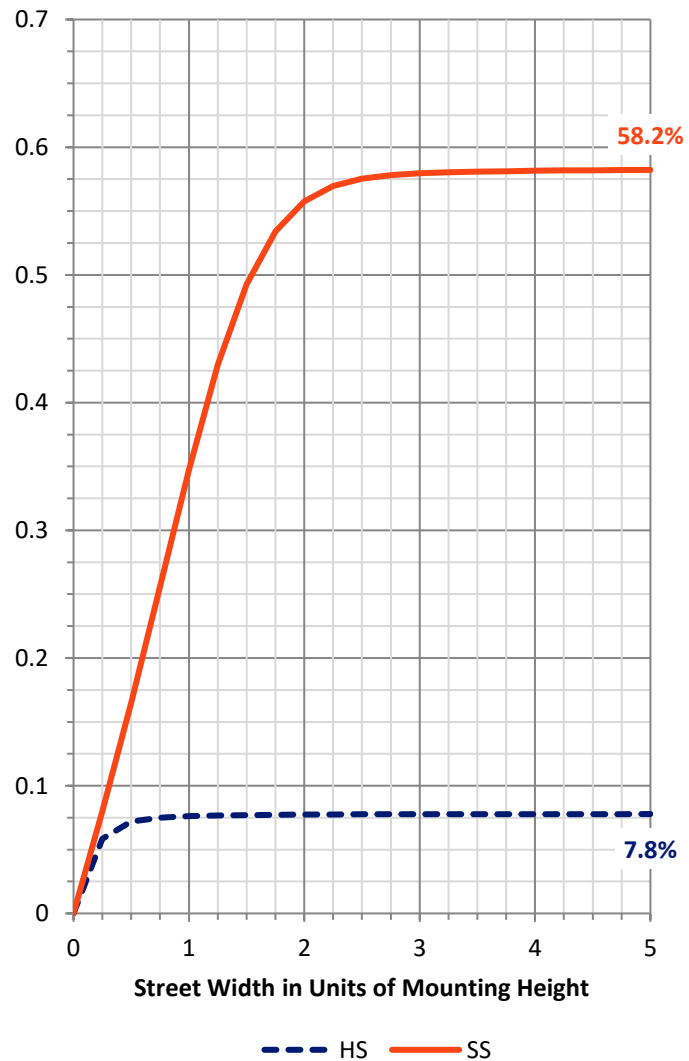
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	413.2	887.0	1300.2
	% Fixture	7.9	16.9	24.8
<b>Street Side</b>	Lumens	3052.8	887.0	3939.7
	% Fixture	58.3	16.9	75.2
<b>Total</b>	Lumens	3466.0	1773.9	5239.9
	% Fixture	66.1	33.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.1	0.7
10°-20°	102.3	2.0
20°-30°	183.8	3.5
30°-40°	322.1	6.1
40°-50°	588.9	11.2
50°-60°	1007.5	19.2
60°-70°	977.4	18.7
70°-80°	242.1	4.6
80°-90°	6.9	0.1
90°-100°	8.4	0.2
100°-110°	58.7	1.1
110°-120°	169.9	3.2
120°-130°	279.4	5.3
130°-140°	344.6	6.6
140°-150°	352.5	6.7
150°-160°	297.0	5.7
160°-170°	195.5	3.7
170°-180°	67.8	1.3
0°-90°	3466.0	66.1
0°-180°	5239.9	100.0

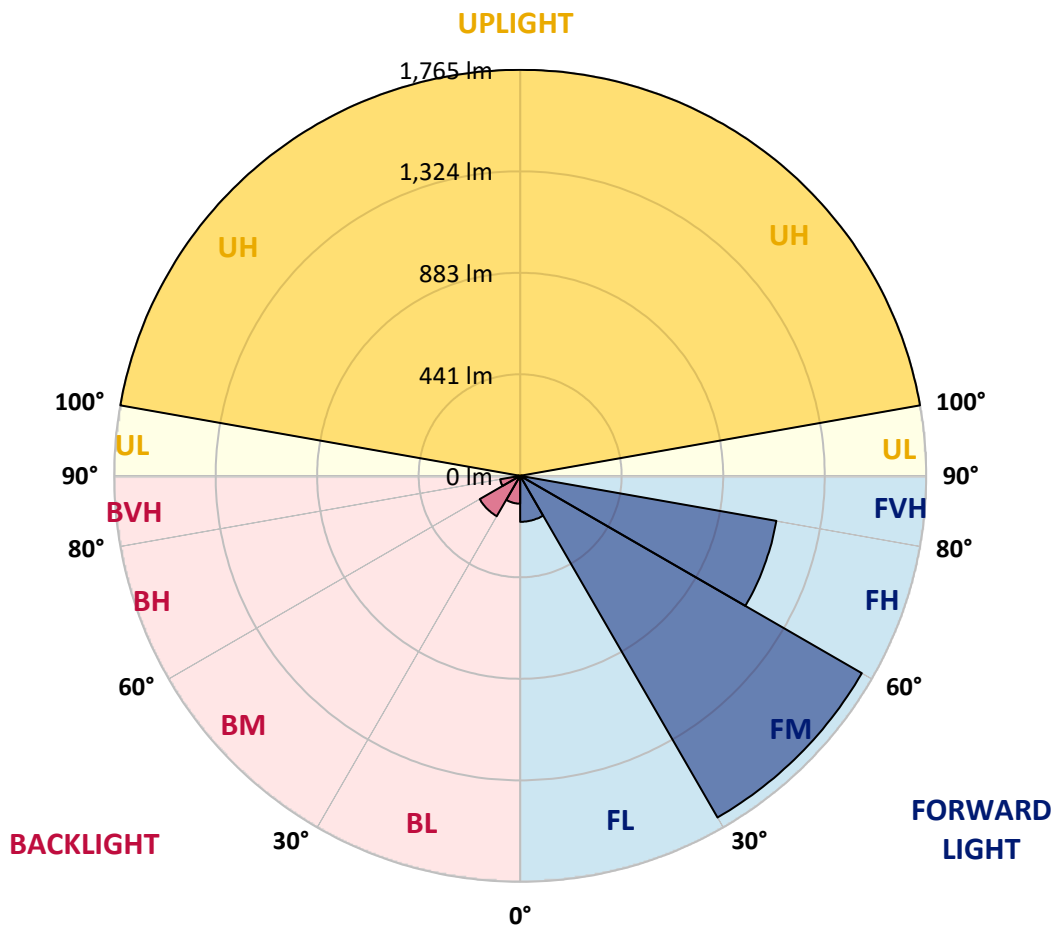


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	200.1	3.8			
FM (30°-60°)	1715.6	32.7			
FH (60°-80°)	1131.2	21.6			G1/1800
FVH (80°-90°)	5.8	0.1			G0/10
BL (0°-30°)	121.0	2.3	B1/500		
BM (30°-60°)	202.9	3.9	B0/220		
BH (60°-80°)	88.2	1.7	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	8.4	0.2		U1/10	
UH (100°-180°)	1765.5	33.7		U5	

**BUG Rating: B1-U5-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3
2.5°	355.9	355.9	357.2	357.8	359.7	361.6	364.2	364.9	366.1	369.3	370.6
5°	336.6	337.3	338.6	341.8	346.3	351.4	357.8	359.7	364.9	371.3	375.8
7.5°	328.9	329.6	331.5	335.4	341.1	348.8	356.5	359.1	366.1	376.4	382.8
10°	327.7	327.7	330.2	336.0	343.1	352.7	361.0	364.2	373.8	386.0	396.3
12.5°	327.7	327.7	330.9	337.9	346.3	358.4	370.0	374.5	385.4	400.8	413.6
15°	333.4	334.7	336.6	341.1	350.7	364.2	380.2	385.4	398.8	417.4	433.5
17.5°	374.5	373.2	366.8	361.0	359.1	370.6	389.9	396.9	416.8	440.5	457.8
20°	454.0	453.3	441.8	413.6	388.6	382.2	404.6	412.9	441.8	473.2	486.0
22.5°	550.2	553.4	535.4	497.6	446.3	413.6	426.4	438.0	475.1	513.0	520.7
25°	645.7	649.6	632.9	585.4	522.6	465.5	456.5	466.8	509.1	547.0	543.8
27.5°	758.6	755.4	738.7	684.8	611.7	535.4	496.9	498.9	531.6	573.9	563.6
30°	841.3	836.8	820.8	784.2	715.6	628.4	554.7	548.9	558.5	605.3	594.4
32.5°	916.9	920.1	908.0	859.2	794.5	723.9	641.2	625.8	622.0	661.7	643.8
35°	992.0	991.3	986.8	943.9	880.4	813.7	744.5	733.6	732.3	770.7	722.0
37.5°	1081.7	1077.2	1068.9	1025.3	974.7	911.2	837.4	820.1	816.9	824.6	767.5
40°	1177.9	1183.7	1170.2	1124.7	1069.6	1022.1	918.9	892.6	870.8	893.2	856.7
42.5°	1320.9	1325.4	1301.7	1270.3	1199.1	1154.8	1050.3	1014.4	1004.1	1038.1	997.1
45°	1500.5	1492.1	1476.1	1454.3	1395.3	1328.0	1219.0	1185.0	1174.1	1232.4	1165.1
47.5°	1640.2	1639.0	1639.6	1635.1	1626.1	1545.3	1415.8	1392.7	1381.8	1465.8	1391.4
50°	1728.7	1733.9	1755.7	1811.4	1852.5	1818.5	1666.5	1638.3	1630.0	1717.2	1616.5
52.5°	1795.4	1807.6	1844.1	1954.4	2085.9	2097.4	1971.7	1932.0	1912.8	1937.1	1797.3
55°	1829.4	1835.2	1891.0	2053.8	2259.7	2342.4	2289.8	2256.5	2178.9	2132.7	2009.6
57.5°	1749.9	1740.9	1837.1	2044.2	2349.4	2539.9	2562.3	2524.5	2400.1	2364.2	2267.4
60°	1541.5	1537.6	1646.0	1894.8	2271.2	2586.0	2764.3	2740.6	2626.4	2541.2	2450.1
62.5°	1176.0	1182.4	1297.2	1550.5	1992.3	2453.3	2876.5	2895.7	2774.6	2647.6	2585.4
64°	944.5	936.8	1042.0	1299.8	1748.0	2276.3	2868.2	2918.8	2819.4	2703.4	2597.6
65°	793.2	776.5	877.2	1110.6	1541.5	2148.1	2809.2	2890.6	2822.6	2716.8	2553.3
67.5°	417.4	426.4	469.4	674.6	1040.7	1624.2	2529.6	2652.7	2680.3	2532.8	2225.0
70°	187.2	188.5	216.1	344.3	575.8	1053.5	2034.6	2234.0	2249.4	2080.8	1612.0
72.5°	62.2	62.8	95.5	137.9	241.7	488.0	1374.1	1555.6	1588.9	1349.1	874.6
75°	38.5	39.8	50.7	74.4	112.2	170.6	696.4	819.5	826.5	598.3	318.0
77.5°	24.4	25.6	30.8	44.2	61.6	64.8	228.3	276.4	312.9	215.4	98.7
80°	15.4	15.4	19.9	26.9	32.1	27.6	62.2	82.1	98.7	72.5	33.3
82.5°	5.8	5.8	10.3	14.7	13.5	9.6	16.7	21.8	37.8	35.9	16.0
85°	0.0	0.0	0.6	1.3	0.6	1.3	3.2	4.5	7.1	10.3	5.1
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	1.3	1.3	1.3	1.3	1.3
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	7.2	6.1	6.1
95°	5.1	5.1	6.1	7.2	7.2	7.2	7.2	7.5	8.2	7.2	7.2
97.5°	7.2	7.2	8.2	8.2	9.2	9.2	12.3	11.7	10.2	9.2	8.2
100°	8.2	8.2	9.2	10.2	12.3	21.5	29.7	28.7	26.6	23.5	19.4
102.5°	11.3	11.3	13.3	18.4	27.6	40.9	51.1	50.2	48.1	43.0	39.9
105°	21.5	22.5	27.6	36.8	49.1	64.4	73.7	73.0	71.6	66.5	62.4
107.5°	41.9	43.0	50.1	59.3	74.7	90.0	97.2	96.9	96.2	92.1	89.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
110°	67.5	69.6	75.7	89.0	104.3	116.6	122.8	123.1	123.8	121.7	118.7
112.5°	101.3	101.3	108.4	123.8	137.1	146.3	151.4	152.0	153.4	152.4	150.4
115°	143.2	142.2	150.4	162.6	171.9	178.0	183.1	184.0	186.2	183.1	181.1
117.5°	188.2	188.2	193.3	201.5	206.6	209.7	215.8	217.1	219.9	214.8	212.8
120°	230.2	228.1	231.2	238.3	242.4	248.6	251.6	252.9	255.7	250.6	248.6
122.5°	269.0	266.0	267.0	273.1	277.2	283.4	285.4	286.6	289.5	284.4	282.3
125°	304.8	300.7	302.8	305.9	312.0	317.1	320.2	320.8	322.2	317.1	317.1
127.5°	337.6	336.6	336.6	340.6	346.8	347.8	352.9	353.2	353.9	353.9	352.9
130°	371.3	369.3	370.3	374.4	378.5	380.5	385.7	386.9	389.7	389.7	387.7
132.5°	405.1	403.0	402.0	410.2	413.3	414.3	420.4	422.0	425.5	423.5	423.5
135°	438.8	435.8	435.8	441.9	445.0	447.0	453.2	454.7	458.3	457.3	460.3
137.5°	470.6	467.5	469.5	470.6	474.6	478.7	483.9	484.5	485.9	486.9	492.0
140°	499.2	496.1	498.2	500.2	502.3	508.4	511.5	512.1	513.5	515.6	520.7
142.5°	529.9	526.8	528.9	529.9	533.0	537.0	539.1	541.0	545.2	545.2	546.3
145°	562.6	558.5	556.5	559.6	562.6	563.6	568.8	570.6	574.9	573.9	570.8
147.5°	588.2	585.1	584.1	587.2	587.2	588.2	593.3	594.9	598.4	599.4	596.4
150°	608.7	605.6	606.6	606.6	606.6	606.6	610.7	611.6	613.8	616.8	619.9
152.5°	625.0	622.0	622.0	623.0	624.0	624.0	625.0	626.0	628.1	632.2	637.3
155°	643.4	639.3	639.3	641.4	644.5	642.4	640.4	641.9	645.5	650.6	652.6
157.5°	660.8	657.8	657.8	658.8	660.8	659.8	658.8	660.0	662.9	664.9	664.9
160°	678.2	675.1	674.1	671.1	670.0	670.0	673.1	675.0	679.2	676.2	675.1
162.5°	688.4	684.4	684.4	680.3	676.2	678.2	682.3	683.6	686.4	685.4	683.3
165°	696.6	693.6	691.5	691.5	688.4	688.4	687.4	689.0	692.5	695.6	693.6
167.5°	705.8	702.8	699.7	701.7	703.8	700.7	693.6	695.4	699.7	703.8	703.8
170°	714.0	711.0	707.9	707.9	708.9	706.9	701.7	702.7	704.8	709.9	712.0
172.5°	715.0	713.0	711.0	708.9	705.8	705.8	704.8	705.7	707.9	709.9	712.0
175°	716.1	714.0	713.0	711.0	706.9	705.8	705.8	707.4	711.0	712.0	709.9
177.5°	723.2	721.2	716.1	715.0	713.0	711.0	709.9	711.5	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°	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3
2.5°	372.5	373.8	376.4	377.0	377.7	375.8	377.7	375.8	377.0	377.0	377.0
5°	378.3	380.2	382.2	382.8	382.2	377.7	379.0	375.8	375.1	375.1	375.1
7.5°	386.0	387.9	391.1	389.2	385.4	379.0	378.3	373.8	371.9	371.9	372.5
10°	400.1	402.0	403.3	399.5	391.8	382.2	375.1	365.5	361.0	359.1	359.1
12.5°	418.1	420.0	419.4	412.9	398.8	379.0	359.1	340.5	327.0	321.9	316.8
15°	437.3	439.9	438.6	425.1	398.2	362.9	324.5	280.9	253.9	236.6	233.4
17.5°	459.8	462.3	455.9	431.5	388.6	328.9	255.8	196.9	157.7	143.0	142.4
20°	487.3	486.0	470.7	432.2	371.3	266.1	171.2	123.1	106.4	102.6	102.0
22.5°	518.7	513.0	484.8	428.3	323.8	180.8	110.3	97.5	95.5	94.3	94.3
25°	536.7	526.4	489.9	417.4	249.4	115.4	93.6	91.1	88.5	85.9	85.3
27.5°	550.8	535.4	491.8	381.5	166.1	88.5	84.6	82.1	78.2	74.4	73.7
30°	576.5	553.4	495.0	318.7	102.0	75.7	73.7	69.3	63.5	59.6	58.4
32.5°	622.6	589.3	507.8	238.5	74.4	66.7	61.6	55.8	49.4	45.5	45.5
35°	672.0	623.3	514.3	157.1	64.8	58.4	50.7	43.6	37.8	34.6	34.0
37.5°	717.5	672.0	512.3	96.2	57.7	50.0	41.7	34.6	29.5	26.9	26.9
40°	810.5	757.3	486.0	66.0	50.7	42.3	34.0	26.9	23.7	21.8	21.8
42.5°	943.2	850.9	427.7	56.4	44.2	35.3	26.9	22.4	19.9	18.0	18.0
45°	1092.0	954.1	341.1	50.7	38.5	29.5	22.4	18.6	16.0	15.4	15.4
47.5°	1286.9	1079.2	250.7	45.5	33.3	25.0	18.6	15.4	14.1	13.5	13.5
50°	1457.5	1180.5	171.2	39.8	29.5	21.2	16.0	14.1	12.8	12.2	12.2
52.5°	1612.7	1251.0	112.9	34.6	26.3	17.3	14.7	12.8	12.2	11.5	11.5
55°	1795.4	1304.9	76.3	30.1	23.1	16.0	14.1	12.8	11.5	11.5	10.9
57.5°	1950.6	1336.9	54.5	25.6	20.5	14.7	13.5	12.2	10.9	10.3	10.3
60°	2041.0	1299.1	39.8	22.4	18.0	13.5	12.2	10.9	10.3	9.6	9.6
62.5°	2066.0	1226.0	30.8	19.2	15.4	12.2	10.9	9.6	9.0	8.3	8.3
64°	2008.3	1147.8	26.3	16.7	13.5	10.9	10.3	9.0	7.7	6.4	6.4
65°	1926.9	1075.3	23.7	15.4	12.2	10.3	9.6	8.3	6.4	5.1	5.1
67.5°	1605.6	857.3	19.2	12.8	9.6	9.0	7.7	6.4	4.5	3.2	3.2
70°	1140.1	599.5	14.7	10.3	8.3	8.3	7.1	5.1	2.6	1.3	1.3
72.5°	603.4	311.6	12.2	8.3	6.4	6.4	5.8	3.2	1.9	1.3	0.6
75°	211.0	102.6	10.3	7.1	5.8	4.5	3.8	2.6	1.9	1.3	0.6
77.5°	64.1	34.0	9.0	7.1	5.1	3.8	4.5	3.8	3.8	2.6	1.9
80°	20.5	12.2	5.1	4.5	5.1	5.1	4.5	3.8	4.5	3.2	2.6
82.5°	7.7	4.5	1.9	2.6	2.6	3.2	3.2	2.6	1.9	0.6	0.0
85°	2.6	1.9	1.3	1.9	1.9	1.9	1.3	1.3	0.6	0.0	0.0
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	0.6	0.6	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-SA1C-740-U-T3-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)