

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: McGRAW-EDISON

Report Number: P532473

Luminaire Tested: **GALN-SA7D-750-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532473  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-750-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29788 lumens  
Efficiency: N/A  
Efficacy: 68.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

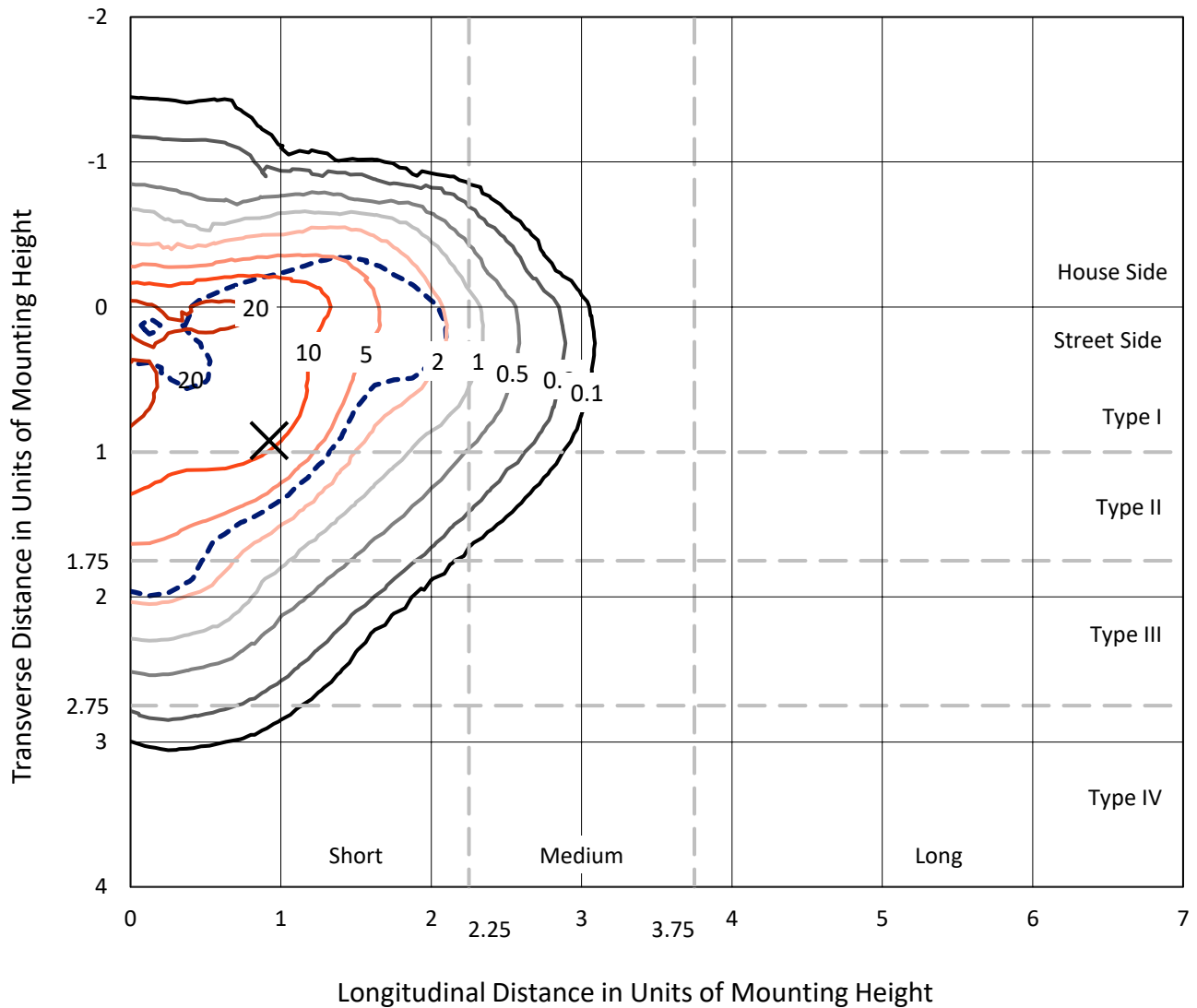
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

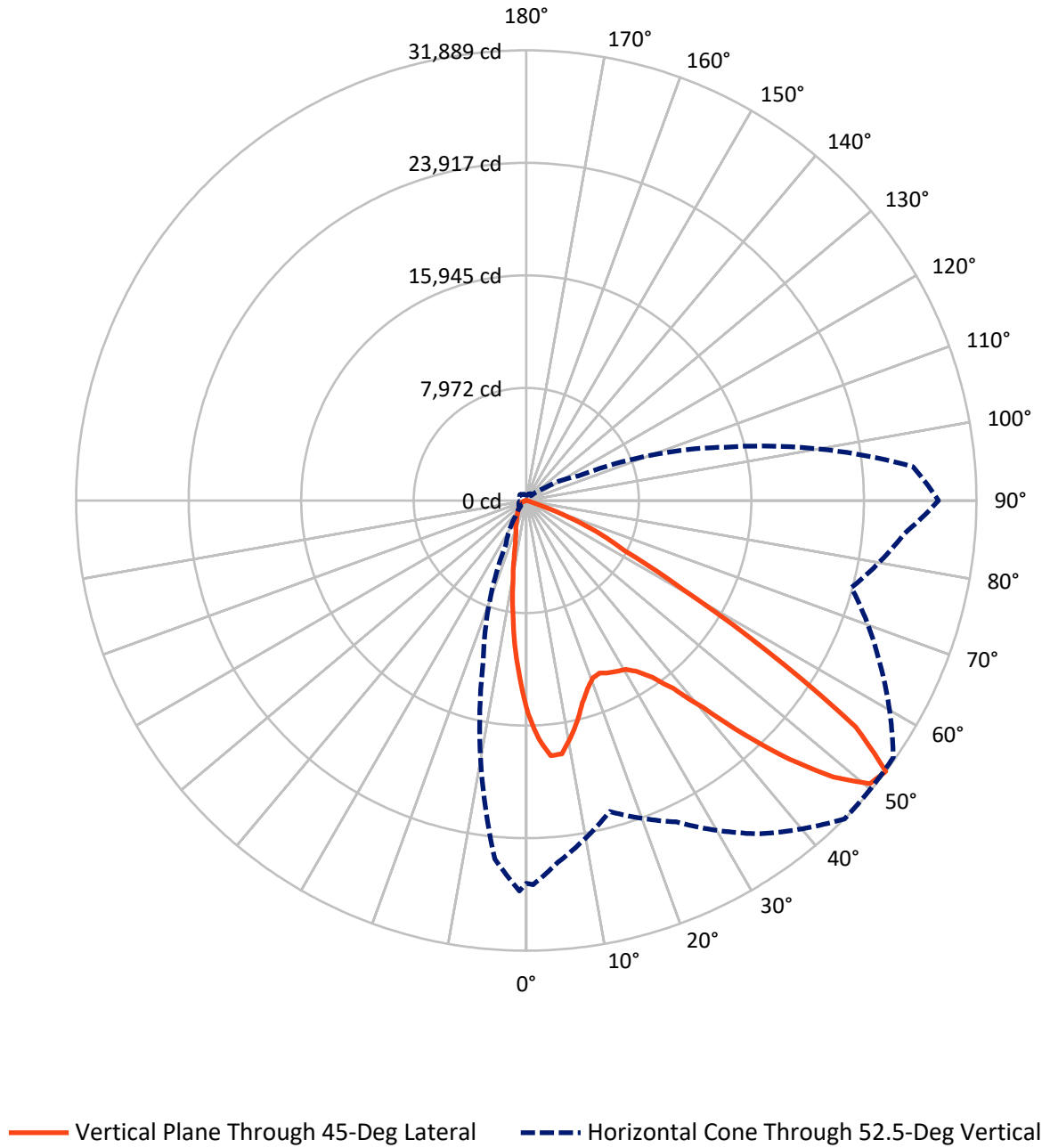
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6045.5	0.0	6045.5
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	23742.5	0.0	23742.5
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	29788.0	0.0	29788.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1101.5	3.7
10°-20°	2173.2	7.3
20°-30°	3307.3	11.1
30°-40°	4943.1	16.6
40°-50°	7039.5	23.6
50°-60°	7567.2	25.4
60°-70°	3353.2	11.3
70°-80°	271.3	0.9
80°-90°	31.6	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	29788.0	100.0
0°-180°	29788.0	100.0

**Coefficient of Utilization**



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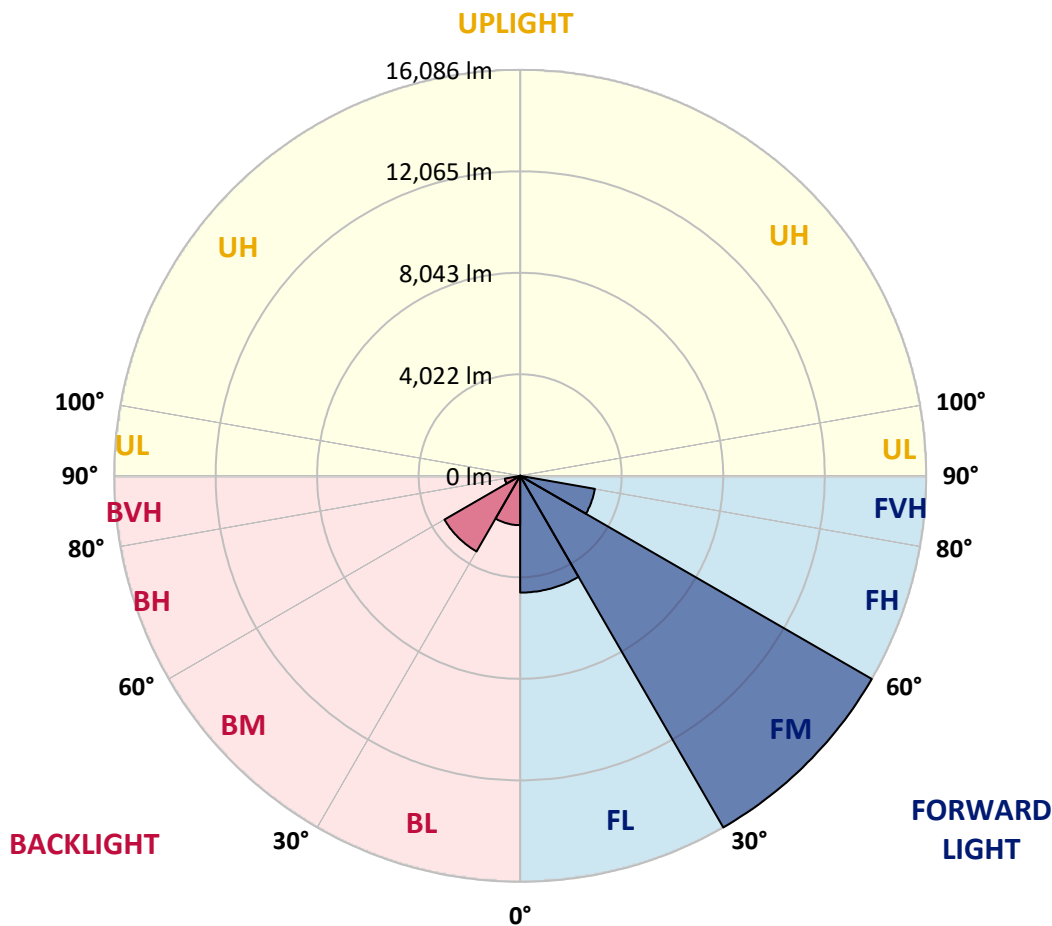
CATALOG NUMBER: GALN-SA7D-750-U-SLL-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4626.7	15.5			
FM (30°-60°)	16086.4	54.0			
FH (60°-80°)	3006.0	10.1			G2/5000
FVH (80°-90°)	23.4	0.1			G1/100
BL (0°-30°)	1955.3	6.6	B3/2500		
BM (30°-60°)	3463.4	11.6	B3/5000		
BH (60°-80°)	618.6	2.1	B2/1000		G2/1000
BVH (80°-90°)	8.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15103.9	15103.9	15103.9	15103.9	15103.9	15103.9	15103.9	15103.9	15103.9	15103.9	15103.9
2.5°	15982.7	16029.6	16287.4	16609.6	16779.5	17166.2	16896.7	16967.0	16820.5	16304.9	15900.7
5°	15496.4	15490.6	15818.7	16615.5	17371.2	18138.7	18162.2	17752.1	17031.4	16240.5	15109.8
7.5°	14031.7	14260.2	14600.0	15871.4	17271.6	17845.8	18121.2	17640.7	16533.4	15402.7	14178.2
10°	12924.4	13041.6	13615.8	15150.8	16176.1	16943.6	17113.5	16838.1	15988.6	14576.6	13205.7
12.5°	12285.8	12344.4	13018.2	14307.1	15391.0	15959.3	16041.3	16170.2	15560.9	14236.8	12590.5
15°	12291.7	12338.6	13246.7	14324.7	14752.4	14600.0	14869.5	14863.7	15127.3	14172.4	13106.1
17.5°	13176.4	13229.1	14049.3	14582.5	14395.0	14037.6	14020.0	14289.5	14846.1	14975.0	13885.3
20°	14699.6	14822.7	15426.1	15396.8	14342.3	13621.6	13422.4	13627.5	14922.3	15654.6	15455.4
22.5°	16750.2	16920.1	17341.9	16533.4	14582.5	13340.4	13276.0	13674.4	15426.1	17172.0	17236.5
25°	19128.9	19416.0	19621.0	18584.0	15437.9	13826.7	13522.0	14207.5	16105.7	18818.4	19503.8
27.5°	20704.9	21003.7	20956.8	19474.5	16012.0	13955.6	13697.8	14336.4	16697.5	19210.9	20687.3
30°	21935.2	22116.8	22444.9	19955.0	16586.2	14318.8	13879.4	14881.3	16890.8	19890.5	22116.8
32.5°	23370.6	23493.7	23517.1	20804.5	17470.8	14775.8	14441.9	15560.9	17746.2	20540.8	23382.3
35°	24817.7	24999.4	24618.5	21853.2	18015.7	15625.3	15379.3	16738.5	18431.7	21214.6	24776.7
37.5°	26387.9	26481.6	25602.8	22286.7	18794.9	17008.0	16873.2	18009.8	19621.0	22433.2	26323.4
40°	27706.1	27794.0	26651.5	22819.9	19615.2	18941.4	19287.1	20435.4	21238.0	23224.2	27096.8
42.5°	28438.5	28643.5	27003.1	22527.0	21261.5	21132.6	22667.6	23071.8	23112.8	23446.8	27788.1
45°	28637.7	28543.9	26423.0	22767.2	22702.7	24735.7	26130.1	26663.2	24975.9	23856.9	27963.9
47.5°	27717.8	27840.9	25567.7	22556.3	24595.1	27465.9	29270.4	30260.5	26364.5	23499.5	27530.3
50°	26973.8	26815.6	25292.3	22403.9	25104.8	28754.8	31537.7	31760.4	27641.7	23938.9	27055.8
52.5°	27120.2	27219.8	25731.7	22808.2	25116.5	28831.0	31889.3	31736.9	27682.7	23839.3	26885.9
55°	27430.7	26991.3	25544.2	21917.6	23435.1	26704.3	28303.7	28069.4	25550.1	22778.9	26469.9
57.5°	23669.4	24349.0	23487.8	19568.3	19234.3	20119.0	20089.7	20810.3	19058.6	19603.4	24097.1
60°	19210.9	19328.1	19650.3	16738.5	13311.1	13006.5	12584.6	12127.6	12824.8	16761.9	21917.6
62.5°	16896.7	16756.1	17904.4	15226.9	9397.5	7868.3	7798.0	8079.2	9895.5	15988.6	20558.4
65°	12280.0	12455.7	13287.7	11817.1	7054.0	6005.2	5899.8	6731.7	8008.9	12813.1	15689.8
67.5°	7499.2	7839.0	7915.2	7288.3	4786.6	3802.3	3650.0	4405.8	5782.6	8290.2	9198.3
70°	3462.5	3872.6	4259.3	3978.1	2771.2	1564.3	1476.4	1851.4	2917.7	4769.0	4880.4
72.5°	1048.7	1054.6	1476.4	1540.9	896.4	351.5	310.5	410.1	990.1	1576.0	1658.0
75°	76.2	82.0	199.2	228.5	169.9	87.9	93.7	111.3	210.9	351.5	263.6
77.5°	5.9	5.9	5.9	29.3	52.7	58.6	76.2	87.9	111.3	128.9	117.2
80°	5.9	0.0	5.9	23.4	41.0	58.6	70.3	82.0	87.9	99.6	87.9
82.5°	0.0	0.0	0.0	17.6	41.0	58.6	64.4	87.9	99.6	117.2	99.6
85°	0.0	0.0	0.0	17.6	41.0	64.4	58.6	29.3	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15103.9	15103.9	15103.9	15103.9	15103.9	15103.9	15103.9	15103.9	15103.9	15103.9	15103.9
2.5°	15971.0	15742.5	15221.1	14957.4	14336.4	14248.5	13639.2	13539.6	13334.6	13223.2	12953.7
5°	14611.8	14336.4	13486.9	12772.1	11940.2	11360.1	10914.9	10510.6	10276.3	10059.5	10159.1
7.5°	13504.5	12701.8	11758.5	10563.4	9602.5	8981.5	8301.9	7745.3	7417.2	7194.6	7247.3
10°	12344.4	11823.0	10510.6	9169.0	8008.9	7569.5	7036.4	6608.7	6145.8	5747.5	5560.0
12.5°	11981.2	11207.8	9561.5	8196.4	7317.6	6889.9	6280.6	5788.5	5196.7	4710.4	4540.5
15°	12045.6	11301.6	9303.7	7844.9	6807.9	6069.7	5343.2	4733.9	4083.6	3743.8	3568.0
17.5°	13094.3	11805.4	9473.6	7475.8	6099.0	5073.7	4177.3	3403.9	2917.7	2566.1	2490.0
20°	14383.3	12895.1	9836.9	7206.3	5519.0	4036.7	3052.4	2384.5	1980.3	1921.7	1904.1
22.5°	16269.8	14676.2	10616.1	7024.7	4810.0	3146.2	2091.6	1734.2	1622.9	1611.2	1617.0
25°	18906.2	16908.4	11465.6	6872.3	4276.9	2425.5	1710.8	1470.6	1435.4	1417.8	1447.1
27.5°	20048.7	18255.9	11916.7	6544.2	3790.6	2185.3	1687.3	1458.8	1359.2	1329.9	1347.5
30°	21460.7	19152.3	12625.6	5981.8	3075.9	1798.6	1576.0	1587.7	1540.9	1394.4	1347.5
32.5°	23335.5	20271.3	12983.0	5583.4	2747.8	1488.1	1154.2	1060.4	1183.5	1206.9	1247.9
35°	24536.5	21407.9	13164.6	5349.1	2577.9	1271.4	978.4	890.5	861.2	867.1	890.5
37.5°	26768.7	22942.9	13393.1	5103.0	2449.0	1107.3	884.7	802.7	761.6	761.6	785.1
40°	28104.5	24161.6	13703.7	4968.2	2320.1	1007.7	802.7	732.3	697.2	697.2	708.9
42.5°	28438.5	24765.0	13598.2	4921.4	2173.6	984.3	732.3	679.6	638.6	632.7	626.9
45°	29036.0	25684.8	13615.8	4868.6	2021.3	896.4	691.3	632.7	574.2	568.3	562.4
47.5°	29692.2	26346.9	13650.9	4663.6	1874.8	749.9	720.6	585.9	515.6	503.9	503.9
50°	29129.8	26874.2	13955.6	4458.5	1687.3	609.3	708.9	550.7	457.0	439.4	445.3
52.5°	29200.1	27495.2	14600.0	4171.4	1453.0	486.3	574.2	521.4	416.0	386.7	392.5
55°	28075.2	26839.0	14687.9	3866.8	1136.6	375.0	439.4	457.0	351.5	339.8	339.8
57.5°	24167.4	22726.2	12959.6	3134.4	749.9	310.5	316.4	398.4	304.7	292.9	298.8
60°	20681.4	18244.2	10428.6	2068.1	468.7	246.1	228.5	404.3	269.5	263.6	281.2
62.5°	18853.5	14992.6	7909.3	1283.1	322.2	187.5	158.2	328.1	234.4	234.4	257.8
65°	13621.6	10071.2	4599.1	673.8	228.5	146.5	117.2	187.5	193.3	199.2	210.9
67.5°	8436.6	5085.4	1939.3	328.1	152.3	99.6	76.2	117.2	128.9	128.9	140.6
70°	4165.6	2027.1	644.5	187.5	117.2	82.0	52.7	64.4	64.4	58.6	64.4
72.5°	1288.9	609.3	164.0	117.2	82.0	52.7	29.3	23.4	11.7	0.0	5.9
75°	146.5	117.2	105.5	82.0	52.7	23.4	5.9	0.0	0.0	0.0	0.0
77.5°	87.9	99.6	99.6	82.0	52.7	17.6	0.0	0.0	0.0	0.0	0.0
80°	70.3	76.2	82.0	76.2	46.9	23.4	0.0	0.0	0.0	0.0	0.0
82.5°	87.9	99.6	111.3	99.6	64.4	29.3	11.7	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	17.6	5.9	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	15103.9	15103.9	15103.9	15103.9	15103.9	15103.9	15103.9	15103.9	15103.9	15103.9	15103.9
2.5°	12842.4	12713.5	12895.1	12625.6	12619.8	12625.6	12549.5	12479.2	12590.5	12889.3	12918.6
5°	9801.7	10077.1	10165.0	10452.0	10293.9	10059.5	10106.4	9948.2	10334.9	10504.8	10370.0
7.5°	7136.0	7118.4	7710.1	7745.3	7821.5	7827.3	7815.6	7505.1	7188.7	7259.0	7469.9
10°	5536.5	5237.7	5524.8	5495.5	5683.0	5630.3	5706.4	5372.5	5483.8	5483.8	5618.6
12.5°	4511.3	4194.9	4142.1	4066.0	4142.1	4171.4	4200.7	4136.3	4323.8	4411.7	4505.4
15°	3445.0	3269.2	3222.3	3075.9	3099.3	3181.3	3251.6	3280.9	3222.3	3357.1	3368.8
17.5°	2501.7	2495.8	2525.1	2519.3	2495.8	2478.3	2472.4	2396.2	2372.8	2384.5	2431.4
20°	1898.2	1945.1	2044.7	2144.3	2197.0	2132.6	2044.7	1915.8	1863.1	1874.8	1880.7
22.5°	1622.9	1693.2	1827.9	1939.3	1992.0	1874.8	1716.6	1605.3	1581.9	1576.0	1570.1
25°	1470.6	1552.6	1652.2	1687.3	1681.5	1611.2	1494.0	1447.1	1435.4	1423.7	1371.0
27.5°	1388.5	1417.8	1435.4	1476.4	1494.0	1447.1	1417.8	1347.5	1335.8	1335.8	1300.6
30°	1341.7	1324.1	1347.5	1318.2	1341.7	1306.5	1312.4	1312.4	1283.1	1294.8	1294.8
32.5°	1247.9	1253.8	1253.8	1195.2	1212.8	1171.8	1212.8	1247.9	1253.8	1259.6	1306.5
35°	914.0	1019.4	1072.2	1072.2	1089.7	1060.4	1054.6	1013.6	960.8	908.1	884.7
37.5°	802.7	843.7	914.0	955.0	984.3	960.8	908.1	843.7	814.4	790.9	767.5
40°	714.8	749.9	796.8	843.7	902.3	873.0	790.9	761.6	726.5	726.5	703.1
42.5°	644.5	662.0	691.3	761.6	826.1	767.5	708.9	685.5	667.9	662.0	656.2
45°	580.0	585.9	615.2	673.8	749.9	691.3	632.7	603.5	609.3	615.2	609.3
47.5°	521.4	533.1	550.7	621.0	667.9	638.6	574.2	556.6	556.6	556.6	562.4
50°	451.1	480.4	515.6	574.2	609.3	591.7	539.0	515.6	503.9	503.9	509.7
52.5°	404.3	427.7	474.6	544.9	591.7	562.4	509.7	474.6	451.1	445.3	457.0
55°	351.5	392.5	468.7	521.4	585.9	556.6	498.0	457.0	416.0	410.1	410.1
57.5°	316.4	380.8	451.1	515.6	568.3	544.9	498.0	445.3	392.5	386.7	386.7
60°	298.8	369.1	439.4	498.0	568.3	533.1	492.1	433.5	375.0	375.0	369.1
62.5°	281.2	345.7	416.0	474.6	544.9	515.6	474.6	416.0	357.4	357.4	345.7
65°	234.4	298.8	345.7	398.4	474.6	445.3	404.3	363.2	316.4	304.7	310.5
67.5°	164.0	205.1	251.9	304.7	351.5	339.8	322.2	292.9	251.9	246.1	240.2
70°	82.0	111.3	152.3	205.1	246.1	234.4	222.6	199.2	175.8	169.9	169.9
72.5°	11.7	35.2	64.4	93.7	128.9	134.8	128.9	123.0	117.2	111.3	117.2
75°	0.0	0.0	0.0	23.4	52.7	64.4	76.2	87.9	87.9	76.2	93.7
77.5°	0.0	0.0	0.0	0.0	5.9	29.3	58.6	76.2	93.7	82.0	111.3
80°	0.0	0.0	0.0	0.0	5.9	35.2	58.6	82.0	93.7	82.0	117.2
82.5°	0.0	0.0	0.0	0.0	5.9	41.0	58.6	76.2	87.9	82.0	105.5
85°	0.0	0.0	0.0	0.0	17.6	35.2	23.4	11.7	5.9	5.9	17.6
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



REPORT NUMBER: P532473

CATALOG NUMBER: GALN-SA7D-750-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15103.9	15103.9	15103.9	15103.9	15103.9	15103.9	15103.9	15103.9	15103.9	15103.9
2.5°	13082.6	13498.6	13943.9	14113.8	14641.1	15039.5	15309.0	15889.0	15976.9	15982.7
5°	10510.6	10721.5	11483.2	11840.6	12625.6	13235.0	13885.3	14822.7	15449.6	15496.4
7.5°	7469.9	8055.8	8378.0	9309.6	10276.3	11231.3	12198.0	13287.7	14014.2	14031.7
10°	6011.1	6391.9	6966.1	7663.3	8477.6	9450.2	10739.1	12004.6	12742.8	12924.4
12.5°	4839.3	5507.2	6163.4	6884.1	7505.1	8237.4	9626.0	11313.3	11922.6	12285.8
15°	3726.2	4335.5	5108.8	5952.5	6655.6	7634.0	9215.8	11143.4	12168.7	12291.7
17.5°	2747.8	3292.6	4007.4	4804.2	5858.8	7247.3	9286.1	12004.6	12971.3	13176.4
20°	1974.4	2290.8	2853.2	3778.9	5120.6	6796.2	9356.5	12877.6	14348.1	14699.6
22.5°	1564.3	1693.2	2062.3	2882.5	4294.5	6321.6	9854.4	14547.3	16240.5	16750.2
25°	1359.2	1429.5	1605.3	2273.2	3773.0	6274.7	10651.2	16551.0	18759.8	19128.9
27.5°	1312.4	1324.1	1476.4	2085.7	3491.8	5964.2	10955.9	17974.7	20329.9	20704.9
30°	1382.7	1570.1	1581.9	1763.5	2970.4	5349.1	11114.1	19351.5	21659.9	21935.2
32.5°	1195.2	1136.6	1177.6	1365.1	2613.0	4991.7	11412.9	20552.6	23177.3	23370.6
35°	831.9	873.0	966.7	1183.5	2284.9	4616.7	11489.0	21876.6	24618.5	24817.7
37.5°	767.5	790.9	867.1	1007.7	2009.6	4405.8	11383.6	22843.3	26112.5	26387.9
40°	714.8	744.1	785.1	914.0	1804.5	4171.4	11237.1	23716.3	27026.5	27706.1
42.5°	673.8	697.2	732.3	873.0	1628.7	3937.1	11032.1	24946.6	27846.7	28438.5
45°	626.9	662.0	703.1	849.5	1529.1	3778.9	10879.7	24870.5	28321.3	28637.7
47.5°	580.0	638.6	685.5	790.9	1499.8	3702.7	10944.2	24583.4	27934.6	27717.8
50°	533.1	609.3	691.3	656.2	1429.5	3550.4	11020.3	24975.9	27014.8	26973.8
52.5°	492.1	580.0	644.5	539.0	1271.4	3403.9	11758.5	25491.5	27665.1	27120.2
55°	433.5	521.4	515.6	433.5	1031.1	3292.6	12338.6	25503.2	27225.7	27430.7
57.5°	392.5	462.8	404.3	363.2	761.6	2753.6	11395.3	21384.5	23306.2	23669.4
60°	363.2	451.1	304.7	287.1	498.0	1986.1	9948.2	16562.7	18525.4	19210.9
62.5°	333.9	427.7	240.2	234.4	345.7	1412.0	8178.8	13861.8	15965.1	16896.7
65°	292.9	304.7	193.3	181.6	246.1	761.6	4980.0	9543.9	11934.3	12280.0
67.5°	240.2	234.4	158.2	146.5	164.0	369.1	2197.0	4780.8	6919.2	7499.2
70°	193.3	193.3	134.8	117.2	117.2	169.9	574.2	1904.1	3128.6	3462.5
72.5°	140.6	146.5	105.5	93.7	87.9	82.0	93.7	380.8	820.2	1048.7
75°	123.0	128.9	105.5	82.0	64.4	52.7	41.0	35.2	46.9	76.2
77.5°	134.8	134.8	111.3	76.2	58.6	41.0	23.4	11.7	11.7	5.9
80°	169.9	175.8	146.5	99.6	70.3	46.9	29.3	11.7	5.9	5.9
82.5°	181.6	199.2	164.0	123.0	87.9	52.7	29.3	5.9	0.0	0.0
85°	46.9	76.2	128.9	111.3	87.9	52.7	29.3	5.9	0.0	0.0
87.5°	0.0	5.9	17.6	17.6	23.4	23.4	17.6	5.9	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

(END OF REPORT)