

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: P450260

Luminaire Tested: **GALN-SA1A-740-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450260  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1A-740-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 615mA 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: 3323 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

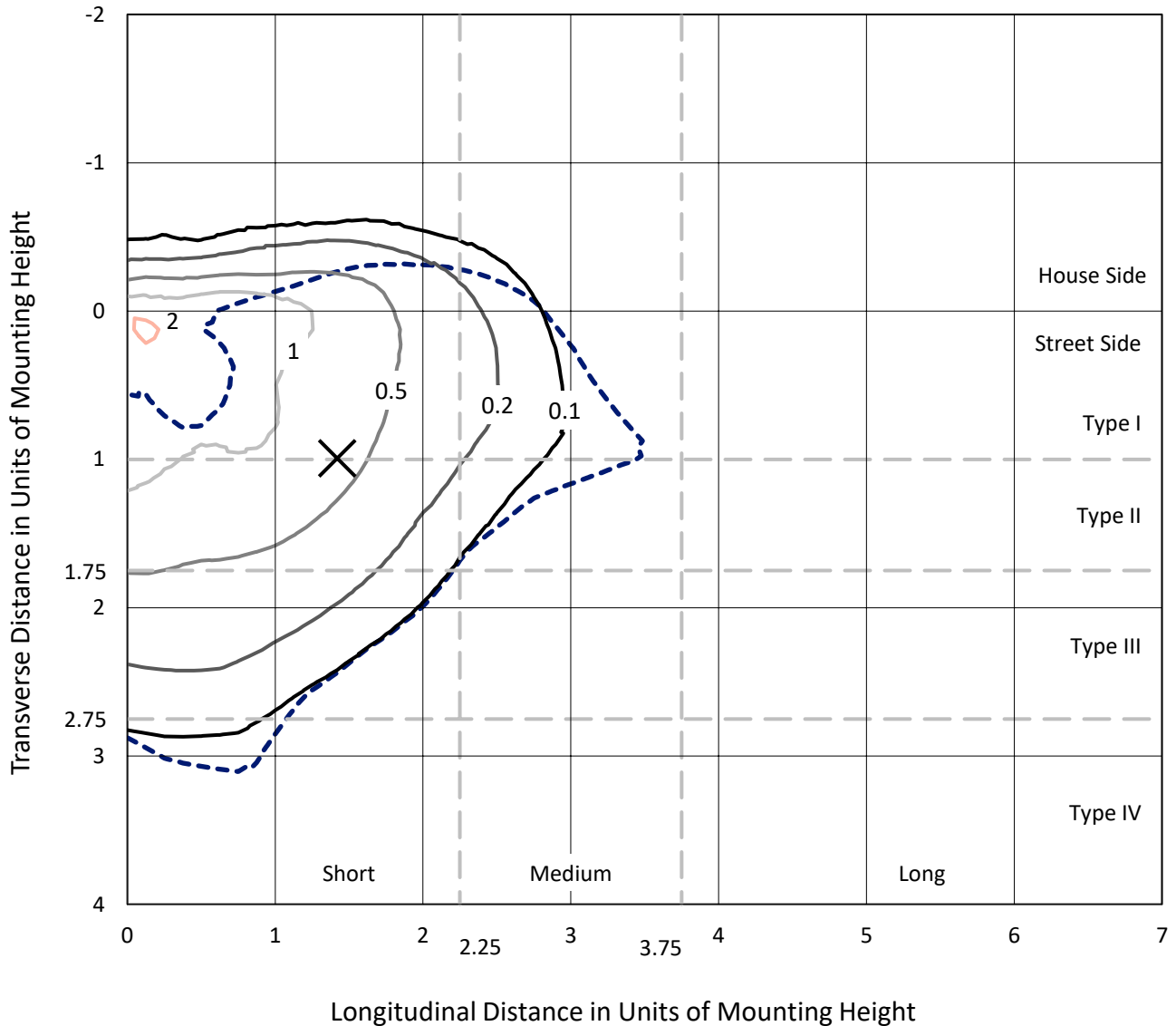
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

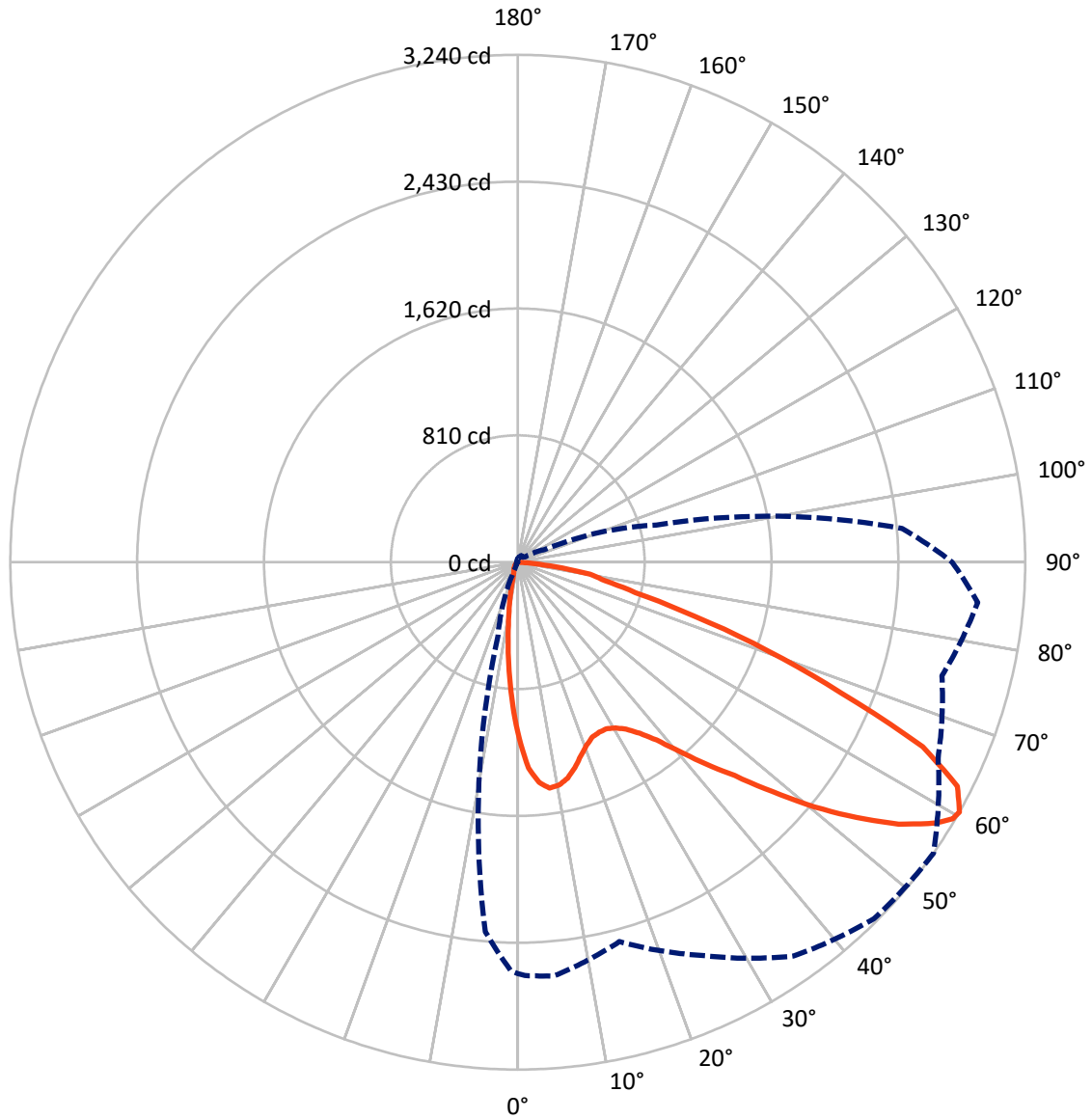
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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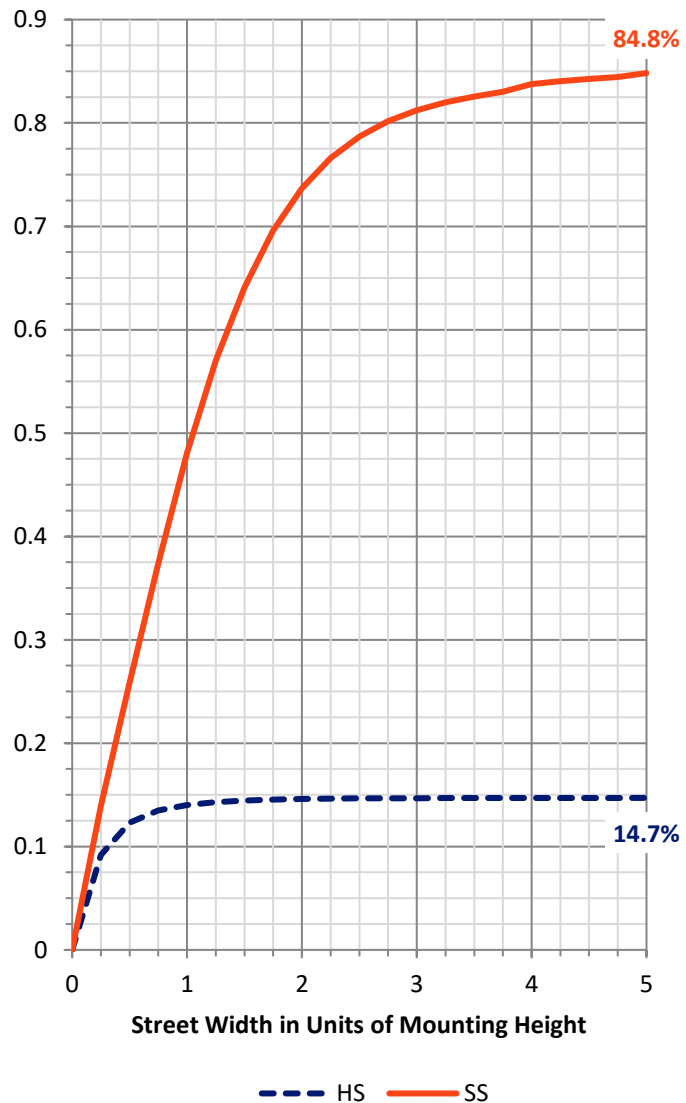
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	493.2	0.0	493.2
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	2829.8	0.0	2829.8
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	3323.0	0.0	3323.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.3	2.5
10°-20°	164.1	4.9
20°-30°	242.9	7.3
30°-40°	362.0	10.9
40°-50°	530.2	16.0
50°-60°	765.4	23.0
60°-70°	805.2	24.2
70°-80°	331.2	10.0
80°-90°	38.8	1.2
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°	3323.0	100.0
0°-180°	3323.0	100.0



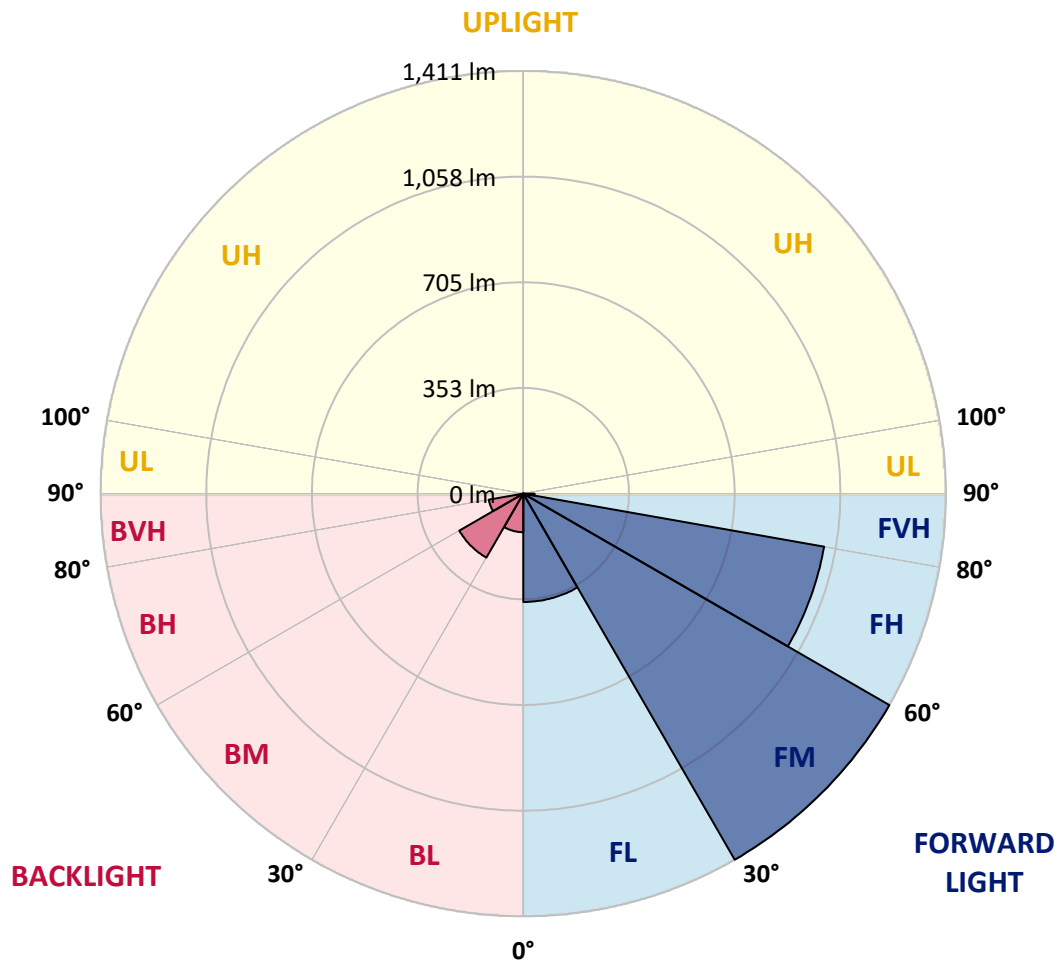
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	361.6	10.9			
FM	(30°-60°)	1411.0	42.5			
FH	(60°-80°)	1019.7	30.7			G1/1800
FVH	(80°-90°)	37.7	1.1			G1/100
BL	(0°-30°)	128.7	3.9	B1/500		
BM	(30°-60°)	246.6	7.4	B1/1000		
BH	(60°-80°)	116.7	3.5	B1/500		G1/500
BVH	(80°-90°)	1.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2
2.5°	1229.3	1227.2	1245.4	1275.0	1305.0	1320.6	1317.5	1316.2	1291.4	1273.3	1235.1
5°	1226.7	1237.2	1269.7	1350.0	1410.9	1440.3	1449.0	1412.4	1364.1	1294.0	1207.5
7.5°	1153.3	1166.3	1219.3	1344.9	1453.1	1517.0	1514.7	1456.1	1356.4	1247.9	1124.6
10°	1062.2	1077.6	1139.7	1292.2	1432.6	1517.0	1521.6	1447.4	1323.4	1184.2	1054.6
12.5°	998.0	1016.2	1085.0	1243.1	1379.9	1463.0	1468.4	1414.7	1298.6	1159.7	1016.5
15°	976.3	993.4	1063.3	1218.3	1323.9	1368.7	1367.4	1361.8	1288.9	1165.6	1018.5
17.5°	1013.6	1027.7	1106.5	1229.5	1271.5	1266.9	1273.5	1300.6	1290.9	1214.9	1083.0
20°	1110.1	1124.4	1209.1	1264.0	1231.3	1202.1	1205.2	1250.5	1309.8	1307.8	1183.7
22.5°	1242.8	1267.1	1343.8	1331.1	1225.9	1162.0	1155.6	1214.4	1342.1	1414.7	1319.8
25°	1410.9	1435.4	1495.3	1438.0	1252.3	1152.5	1146.6	1203.4	1381.2	1519.1	1473.0
27.5°	1552.0	1570.7	1630.3	1542.1	1291.2	1156.6	1146.9	1205.0	1412.9	1607.8	1602.2
30°	1665.1	1678.9	1714.0	1590.7	1324.7	1174.5	1163.3	1227.5	1427.0	1651.0	1706.8
32.5°	1756.2	1779.4	1790.4	1642.6	1372.7	1208.3	1189.1	1270.7	1461.2	1704.5	1816.5
35°	1860.3	1887.1	1873.0	1692.2	1436.2	1261.0	1237.4	1340.8	1513.2	1753.9	1943.9
37.5°	1992.2	2023.2	1968.2	1744.4	1503.2	1340.3	1329.3	1439.3	1591.9	1824.5	2080.5
40°	2128.8	2146.7	2060.5	1807.8	1585.6	1455.6	1466.1	1585.6	1695.0	1909.1	2225.8
42.5°	2235.5	2252.4	2155.4	1861.0	1669.7	1592.5	1636.2	1762.0	1813.2	1995.8	2334.2
45°	2317.1	2331.4	2221.2	1919.1	1783.3	1790.7	1873.3	1943.9	1931.6	2048.8	2417.9
47.5°	2380.5	2392.8	2271.8	1981.5	1953.4	2033.2	2159.5	2189.4	2054.4	2106.1	2493.6
50°	2406.6	2410.2	2287.7	2061.0	2146.5	2342.1	2473.9	2455.7	2195.1	2169.7	2574.1
52.5°	2440.6	2439.8	2332.9	2136.8	2328.1	2618.4	2749.8	2708.7	2354.2	2265.2	2664.7
55°	2529.9	2530.9	2429.9	2244.2	2482.8	2841.4	2982.1	2952.2	2522.0	2426.3	2770.3
57.5°	2638.3	2642.2	2567.7	2369.8	2630.7	3003.1	3155.5	3144.0	2748.8	2605.6	2870.1
59°	2652.4	2660.1	2633.0	2458.3	2718.4	3052.7	3214.8	3226.1	2870.3	2723.8	2924.0
60°	2626.8	2639.6	2651.9	2508.4	2769.8	3070.6	3218.4	3240.4	2961.6	2804.1	2948.6
62.5°	2515.3	2535.5	2597.1	2662.6	2834.0	3014.8	3104.1	3150.1	3074.7	3015.1	2950.9
65°	2369.3	2379.7	2468.7	2690.0	2709.4	2754.5	2782.1	2841.2	2938.9	3096.4	2845.3
67.5°	2129.8	2160.8	2269.8	2531.2	2341.9	2288.7	2281.8	2222.9	2476.7	2902.5	2584.9
70°	1759.5	1773.3	1907.6	2075.1	1767.4	1685.6	1718.3	1696.3	1919.9	2498.7	2080.5
72.5°	1330.5	1361.8	1493.0	1654.1	1202.7	1096.5	1186.8	1178.6	1442.1	2008.1	1429.3
75°	946.6	966.8	1134.1	1294.5	842.3	713.6	746.1	776.5	1006.7	1585.6	844.6
77.5°	650.4	667.8	793.4	856.1	614.4	588.5	538.4	567.8	659.6	940.7	459.6
80°	392.4	391.6	474.2	489.6	427.9	497.0	416.9	468.1	398.8	402.6	178.0
82.5°	254.8	252.2	290.0	316.1	238.1	250.4	168.0	242.2	259.9	112.3	56.3
85°	114.1	118.9	139.4	183.9	104.4	55.5	34.3	74.4	110.8	56.5	0.0
87.5°	11.8	9.2	24.6	44.8	14.3	1.5	5.1	2.6	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2
2.5°	1217.5	1202.7	1158.4	1117.0	1081.4	1037.9	1009.8	965.6	938.7	930.5	931.8
5°	1168.6	1125.9	1041.8	974.5	899.6	856.8	791.9	729.5	695.7	683.2	677.6
7.5°	1066.3	1020.5	919.0	813.4	733.1	658.1	609.8	554.8	517.2	486.2	480.9
10°	990.4	930.3	804.4	690.9	627.4	571.1	522.8	467.8	423.6	388.3	378.5
12.5°	944.8	877.6	737.1	642.0	581.9	524.1	461.2	397.5	352.2	314.1	296.4
15°	936.7	858.6	718.2	607.0	532.8	463.0	379.3	310.5	264.0	227.9	216.9
17.5°	986.0	892.7	715.4	570.4	468.6	369.6	282.6	225.6	173.2	153.0	145.0
20°	1074.0	952.8	715.1	527.9	402.6	284.7	198.5	147.1	125.8	116.1	111.5
22.5°	1194.0	1034.6	728.7	491.3	334.0	210.0	141.7	117.1	104.9	96.9	95.1
25°	1340.5	1155.9	762.0	466.5	281.6	164.7	116.9	100.3	90.0	86.5	84.9
27.5°	1470.7	1272.0	798.5	441.0	244.0	145.8	108.4	91.8	83.6	80.8	78.5
30°	1583.0	1377.4	816.2	407.2	213.8	133.5	110.0	98.2	87.5	79.0	75.2
32.5°	1676.6	1458.2	827.7	376.5	188.3	109.2	87.0	76.0	71.1	68.0	65.5
35°	1793.8	1545.7	820.8	359.1	175.2	99.5	79.3	65.5	57.3	51.2	48.6
37.5°	1916.5	1633.1	808.8	344.8	169.3	92.3	75.5	62.2	53.2	46.8	43.5
40°	2043.7	1714.2	794.7	331.5	164.0	87.7	73.2	59.3	50.4	43.5	39.9
42.5°	2160.0	1793.2	789.1	322.8	155.3	88.5	71.4	58.1	47.6	40.4	37.3
45°	2254.2	1868.2	796.7	318.2	145.8	87.2	71.9	56.5	45.3	38.4	35.3
47.5°	2354.7	1974.1	821.6	313.6	136.6	81.1	75.7	56.3	44.2	37.1	33.8
50°	2471.6	2109.6	878.3	302.3	125.3	74.4	80.6	56.0	43.0	35.6	32.2
52.5°	2627.3	2263.6	936.9	282.6	109.0	68.0	77.0	55.2	40.4	33.8	30.4
55°	2767.2	2425.8	986.5	259.4	88.2	58.8	69.3	51.9	36.1	30.7	27.6
57.5°	2825.0	2517.3	985.0	227.1	70.6	51.7	57.0	47.6	31.5	27.1	24.6
59°	2803.8	2505.8	952.0	203.3	64.5	47.8	47.3	47.1	29.4	24.6	22.5
60°	2773.9	2463.9	916.4	191.6	60.6	45.3	43.5	46.6	27.6	23.0	21.0
62.5°	2659.3	2290.0	798.5	171.6	55.5	38.4	34.8	39.4	24.6	20.0	18.2
65°	2493.3	2022.7	676.0	166.0	54.0	31.7	28.9	28.1	21.0	16.9	15.3
67.5°	2169.5	1711.7	547.6	162.2	54.5	26.6	25.3	21.2	17.4	14.1	13.0
70°	1737.0	1334.6	448.4	157.8	55.0	21.7	21.2	16.9	14.1	11.8	10.7
72.5°	1055.3	791.1	353.0	137.1	53.5	17.4	18.9	12.8	10.2	8.4	7.9
75°	652.5	541.5	218.9	106.7	35.3	12.8	13.3	7.9	6.9	5.4	5.4
77.5°	378.0	342.0	78.3	38.4	15.6	7.7	5.9	4.1	3.8	2.3	2.3
80°	156.8	125.6	27.1	13.0	8.4	3.6	1.3	0.3	0.0	0.0	0.0
82.5°	45.8	40.7	7.4	5.9	2.6	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2
2.5°	910.1	901.6	897.8	910.8	898.8	914.1	902.4	907.5	922.6	929.2	946.4
5°	681.1	672.4	668.3	688.0	687.0	696.7	695.7	704.7	712.3	695.2	712.8
7.5°	474.5	468.6	478.3	493.6	510.0	504.6	504.6	492.6	496.7	494.2	493.4
10°	360.9	340.7	335.6	335.1	341.2	342.5	335.6	319.0	325.1	326.9	337.6
12.5°	283.9	268.3	244.5	233.8	231.0	233.3	210.5	195.9	202.8	198.7	209.2
15°	203.6	190.8	176.7	164.7	161.4	156.8	132.0	114.6	112.5	113.3	115.1
17.5°	145.3	136.6	136.6	123.8	116.9	103.1	90.5	82.9	82.1	82.9	84.2
20°	107.2	102.6	102.1	98.7	91.1	81.8	73.2	71.6	71.1	72.4	72.9
22.5°	92.3	87.5	83.4	83.1	76.0	68.3	64.2	62.2	62.4	62.9	64.2
25°	82.6	77.5	73.2	70.6	65.5	60.1	56.3	55.2	55.2	56.0	56.3
27.5°	75.7	69.3	65.5	61.9	57.3	52.7	49.4	48.6	48.1	48.6	49.9
30°	70.8	64.5	59.6	54.2	50.6	46.3	43.5	42.5	42.2	42.5	43.5
32.5°	60.6	56.8	52.9	48.1	43.7	40.9	37.9	36.1	36.1	36.6	37.6
35°	45.8	43.7	43.5	42.2	38.6	35.6	32.0	30.2	30.2	31.2	31.7
37.5°	40.4	36.6	36.1	35.6	34.0	29.9	26.6	25.1	24.8	25.6	26.6
40°	36.8	32.5	30.2	29.7	29.9	25.3	21.7	20.2	20.2	20.5	21.5
42.5°	34.0	28.9	24.8	24.3	25.3	21.2	17.6	16.1	16.1	16.1	17.4
45°	31.7	25.8	21.0	18.4	20.0	17.4	14.3	12.8	12.3	12.8	13.3
47.5°	30.2	23.5	18.4	14.8	14.8	13.8	11.5	9.7	9.2	9.5	10.2
50°	28.9	21.5	15.6	12.0	10.7	11.0	8.7	7.4	6.9	6.9	7.7
52.5°	26.9	19.4	13.6	10.2	8.2	7.4	6.4	5.4	5.1	5.4	5.9
55°	24.3	17.6	11.8	8.4	6.4	5.1	4.6	3.8	3.6	3.8	4.6
57.5°	21.5	14.8	9.5	6.7	4.3	3.3	3.1	2.6	2.0	2.3	2.8
59°	19.7	13.3	8.2	5.4	3.3	2.3	2.3	1.8	1.3	1.5	2.3
60°	18.9	12.3	6.9	4.6	2.8	1.8	1.8	1.3	0.8	1.0	1.8
62.5°	16.1	10.2	5.4	2.8	1.3	0.3	0.8	0.3	0.0	0.3	0.8
65°	13.6	8.2	3.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3
67.5°	11.3	6.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	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



REPORT NUMBER: P450260  
 CATALOG NUMBER: GALN-SA1A-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2
2.5°	947.4	984.0	1006.5	1048.9	1092.4	1125.9	1167.9	1205.5	1221.1	1229.3
5°	730.8	781.7	824.9	889.6	949.7	1022.8	1097.0	1184.5	1218.0	1226.7
7.5°	512.8	564.8	610.0	685.0	770.7	868.6	979.6	1090.6	1139.5	1153.3
10°	370.4	425.9	481.1	556.1	636.1	742.3	857.9	995.2	1051.5	1062.2
12.5°	233.8	293.4	383.2	475.7	560.4	645.8	766.8	916.2	978.3	998.0
15°	135.6	180.1	247.8	368.6	476.3	589.3	721.3	886.5	956.1	976.3
17.5°	90.8	106.1	152.7	245.0	387.2	537.1	709.8	910.8	987.8	1013.6
20°	76.5	83.4	99.8	149.4	298.2	490.6	712.8	976.8	1077.8	1110.1
22.5°	67.3	73.7	84.2	107.4	208.2	432.8	727.4	1071.2	1201.6	1242.8
25°	59.3	65.7	74.9	89.0	139.9	366.0	759.4	1209.3	1365.6	1410.9
27.5°	52.7	58.6	66.5	78.5	107.7	291.6	787.8	1343.8	1515.2	1552.0
30°	46.6	51.4	59.1	68.3	89.5	224.8	802.1	1461.5	1624.2	1665.1
32.5°	40.4	45.0	52.4	59.9	73.7	171.4	792.1	1548.0	1730.1	1756.2
35°	34.5	39.4	45.5	52.4	63.7	138.4	742.3	1645.2	1839.8	1860.3
37.5°	29.7	33.8	40.2	45.5	57.5	110.8	681.9	1732.6	1962.8	1992.2
40°	25.1	29.2	35.6	40.4	52.9	87.2	627.4	1829.8	2092.5	2128.8
42.5°	20.5	25.3	30.9	38.9	45.5	66.5	561.4	1908.6	2190.0	2235.5
45°	16.4	21.7	27.9	38.6	39.6	50.6	497.7	1970.0	2276.2	2317.1
47.5°	13.0	18.4	26.9	36.1	32.5	40.2	461.4	2034.2	2347.8	2380.5
50°	10.5	15.3	28.1	31.7	27.1	34.0	460.4	2105.8	2384.9	2406.6
52.5°	8.4	12.5	23.8	24.3	23.0	29.9	488.0	2186.4	2422.7	2440.6
55°	7.2	10.5	15.6	17.9	20.7	27.1	508.7	2310.4	2513.0	2529.9
57.5°	5.6	9.0	12.0	14.3	18.4	24.8	511.6	2406.1	2627.3	2638.3
59°	4.9	7.7	10.7	12.8	16.9	23.3	500.0	2412.0	2634.7	2652.4
60°	4.1	6.9	9.5	12.0	15.6	22.0	487.5	2369.3	2607.1	2626.8
62.5°	3.1	5.4	6.9	9.7	12.8	18.9	428.2	2220.1	2501.5	2515.3
65°	2.0	3.8	5.1	7.2	10.0	16.4	348.9	2026.8	2338.3	2369.3
67.5°	1.3	2.8	4.1	5.4	8.2	13.8	248.6	1738.0	2109.9	2129.8
70°	0.8	1.8	3.1	4.3	6.4	11.0	147.6	1373.8	1755.4	1759.5
72.5°	0.5	1.3	2.0	3.1	5.1	10.0	71.6	895.5	1281.7	1330.5
75°	0.3	0.8	1.3	2.3	4.1	8.2	34.3	598.3	932.6	946.6
77.5°	0.0	0.3	0.8	1.5	3.1	6.4	20.0	392.9	635.9	650.4
80°	0.0	0.0	0.5	1.3	2.3	4.1	12.0	231.7	385.2	392.4
82.5°	0.0	0.0	0.3	1.0	1.5	3.1	6.1	101.8	252.2	254.8
85°	0.0	0.0	0.3	1.0	1.3	2.0	2.3	13.8	112.0	114.1
87.5°	0.0	0.0	0.3	1.3	1.3	1.3	1.3	0.8	9.5	11.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)