

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: P450376

Luminaire Tested: **GALN-SA1A-830-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450376
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-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 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: 2641 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 33
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

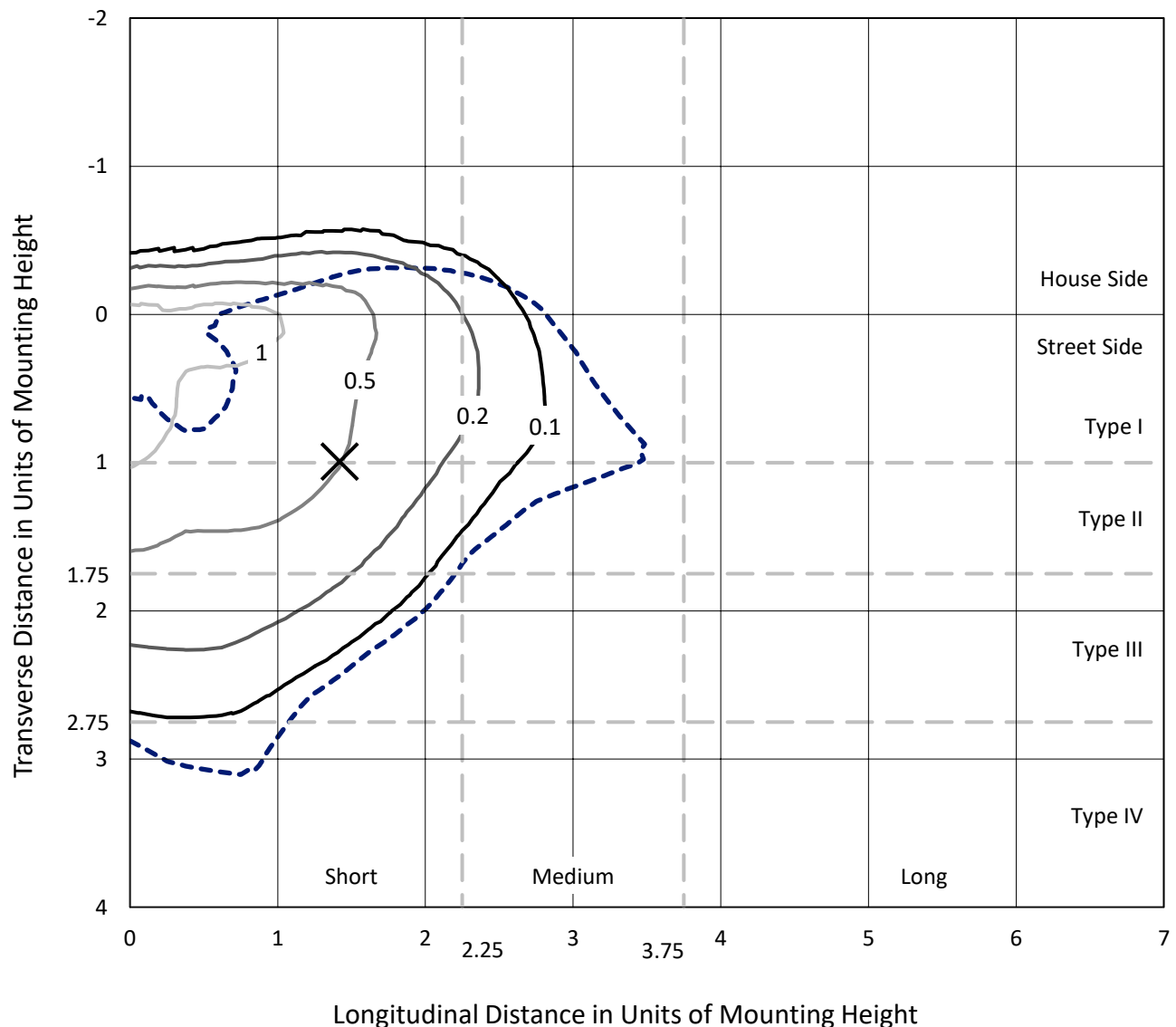


REPORT NUMBER: P450376

CATALOG NUMBER: GALN-SA1A-830-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

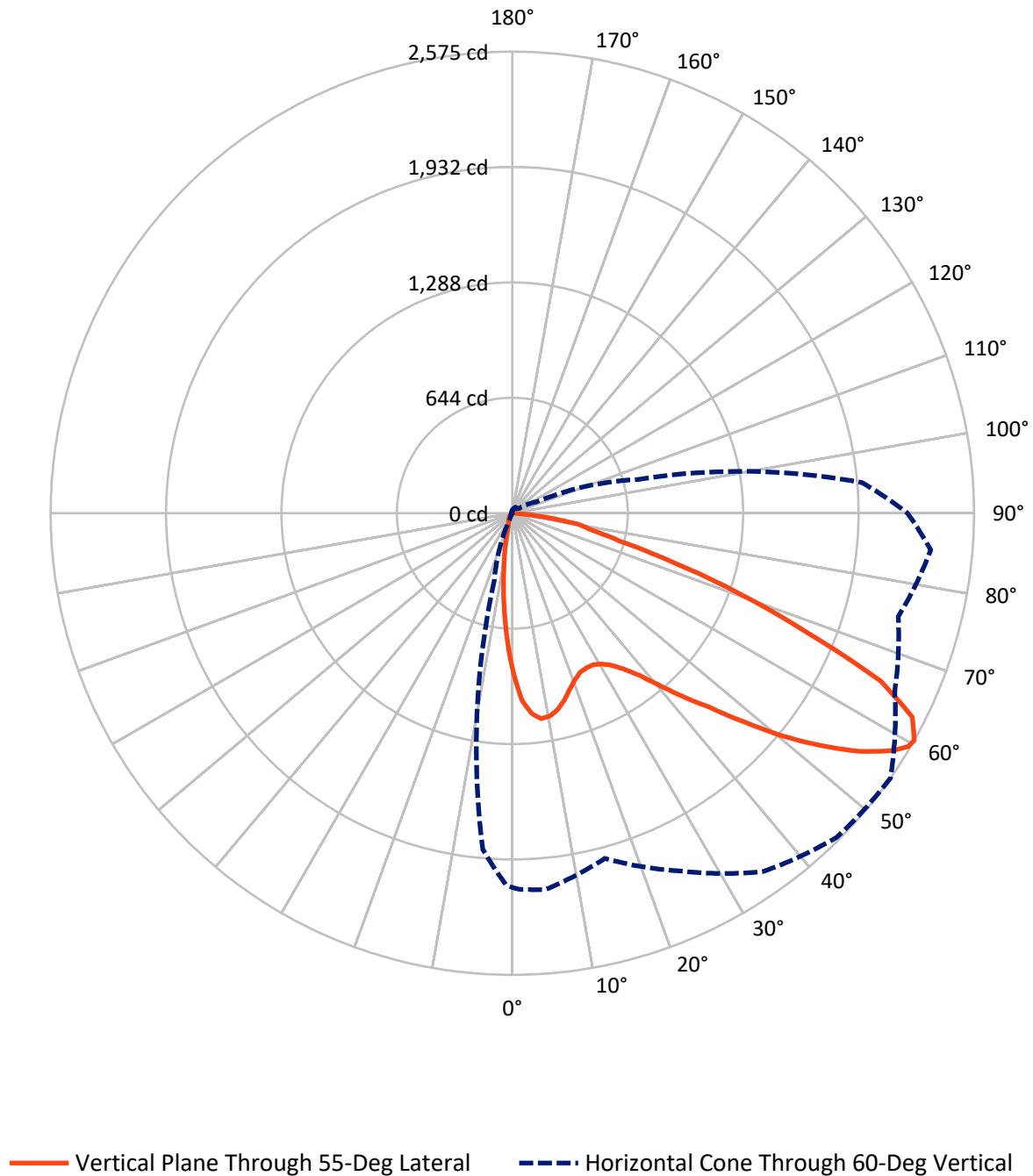
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Short - N/A

REPORT NUMBER: P450376
CATALOG NUMBER: GALN-SA1A-830-U-SLL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P450376

CATALOG NUMBER: GALN-SA1A-830-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	391.9	0.0	391.9
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	2249.1	0.0	2249.1
	% Fixture	85.2	0.0	85.2
Total	Lumens	2641.0	0.0	2641.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	2.5
10°-20°	130.4	4.9
20°-30°	193.0	7.3
30°-40°	287.7	10.9
40°-50°	421.4	16.0
50°-60°	608.3	23.0
60°-70°	639.9	24.2
70°-80°	263.2	10.0
80°-90°	30.8	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°	2641.0	100.0
0°-180°	2641.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450376

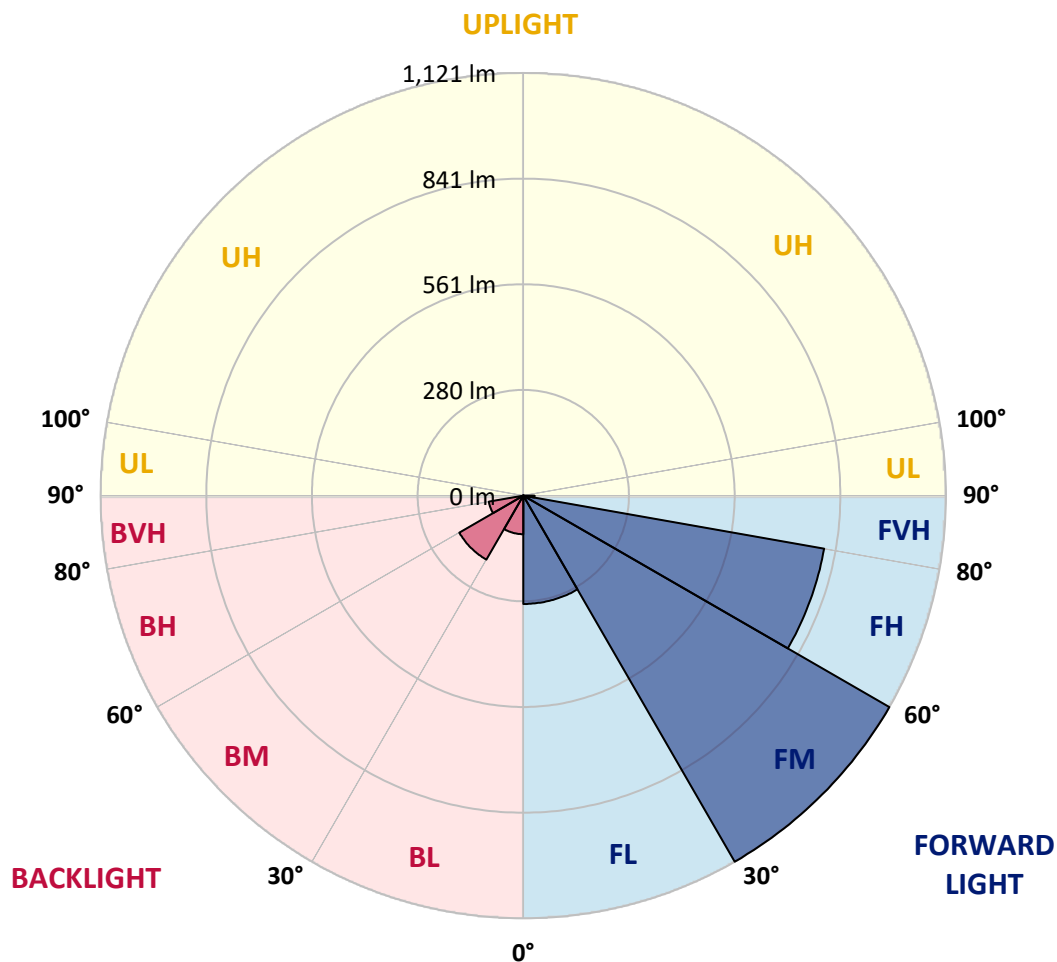
CATALOG NUMBER: GALN-SA1A-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	287.4	10.9			
FM	(30°-60°)	1121.4	42.5			
FH	(60°-80°)	810.4	30.7			G1/1800
FVH	(80°-90°)	29.9	1.1			G1/100
BL	(0°-30°)	102.3	3.9	B0/110		
BM	(30°-60°)	196.0	7.4	B0/220		
BH	(60°-80°)	92.8	3.5	B0/110		G0/110
BVH	(80°-90°)	0.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





REPORT NUMBER: P450376

CATALOG NUMBER: GALN-SA1A-830-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	894.2	894.2	894.2	894.2	894.2	894.2	894.2	894.2	894.2	894.2	894.2
2.5°	977.0	975.3	989.8	1013.4	1037.1	1049.5	1047.1	1046.1	1026.4	1011.9	981.6
5°	974.9	983.3	1009.1	1072.9	1121.3	1144.7	1151.6	1122.5	1084.1	1028.4	959.7
7.5°	916.6	927.0	969.0	1068.9	1154.8	1205.7	1203.8	1157.3	1078.0	991.8	893.8
10°	844.2	856.4	905.8	1027.0	1138.6	1205.7	1209.3	1150.4	1051.8	941.2	838.1
12.5°	793.2	807.6	862.3	987.9	1096.7	1162.8	1167.0	1124.3	1032.1	921.7	807.8
15°	775.9	789.5	845.0	968.2	1052.2	1087.8	1086.7	1082.3	1024.3	926.4	809.5
17.5°	805.6	816.8	879.4	977.2	1010.5	1006.9	1012.1	1033.7	1026.0	965.6	860.7
20°	882.2	893.6	960.9	1004.6	978.6	955.4	957.9	993.8	1041.0	1039.4	940.8
22.5°	987.7	1007.1	1068.0	1057.9	974.3	923.5	918.4	965.2	1066.6	1124.3	1048.9
25°	1121.3	1140.8	1188.4	1142.8	995.3	916.0	911.3	956.4	1097.7	1207.3	1170.7
27.5°	1233.5	1248.4	1295.7	1225.6	1026.2	919.2	911.5	957.7	1122.9	1277.8	1273.4
30°	1323.4	1334.3	1362.2	1264.2	1052.8	933.5	924.5	975.5	1134.1	1312.2	1356.5
32.5°	1395.7	1414.2	1423.0	1305.5	1091.0	960.3	945.1	1009.9	1161.3	1354.7	1443.7
35°	1478.5	1499.8	1488.6	1344.9	1141.4	1002.2	983.5	1065.6	1202.6	1393.9	1544.9
37.5°	1583.4	1608.0	1564.3	1386.4	1194.7	1065.2	1056.5	1143.9	1265.2	1450.0	1653.5
40°	1691.9	1706.1	1637.6	1436.8	1260.1	1156.9	1165.2	1260.1	1347.1	1517.3	1769.0
42.5°	1776.7	1790.1	1713.1	1479.1	1327.0	1265.6	1300.4	1400.4	1441.1	1586.2	1855.1
45°	1841.5	1852.9	1765.3	1525.2	1417.3	1423.2	1488.8	1544.9	1535.2	1628.3	1921.6
47.5°	1891.9	1901.7	1805.5	1574.8	1552.5	1615.9	1716.3	1740.1	1632.8	1673.8	1981.8
50°	1912.7	1915.5	1818.1	1638.0	1705.9	1861.4	1966.1	1951.7	1744.6	1724.4	2045.8
52.5°	1939.7	1939.1	1854.1	1698.2	1850.3	2081.0	2185.5	2152.8	1871.0	1800.3	2117.8
55°	2010.7	2011.5	1931.2	1783.6	1973.3	2258.3	2370.1	2346.3	2004.4	1928.3	2201.7
57.5°	2096.8	2099.9	2040.7	1883.4	2090.8	2386.7	2507.9	2498.7	2184.7	2070.8	2281.0
59°	2108.0	2114.1	2092.6	1953.7	2160.5	2426.2	2555.0	2564.0	2281.2	2164.7	2323.9
60°	2087.7	2097.9	2107.6	1993.6	2201.3	2440.4	2557.9	2575.4	2353.8	2228.6	2343.4
62.5°	1999.1	2015.1	2064.1	2116.2	2252.4	2396.1	2467.0	2503.6	2443.6	2396.3	2345.3
65°	1883.0	1891.3	1962.1	2137.9	2153.4	2189.1	2211.1	2258.1	2335.7	2460.9	2261.3
67.5°	1692.7	1717.3	1803.9	2011.7	1861.2	1819.0	1813.5	1766.7	1968.4	2306.8	2054.4
70°	1398.4	1409.4	1516.1	1649.2	1404.7	1339.6	1365.6	1348.2	1525.8	1985.9	1653.5
72.5°	1057.5	1082.3	1186.6	1314.6	955.8	871.5	943.2	936.7	1146.1	1596.0	1135.9
75°	752.3	768.4	901.4	1028.8	669.4	567.2	593.0	617.2	800.1	1260.1	671.2
77.5°	516.9	530.8	630.6	680.4	488.3	467.8	427.9	451.3	524.3	747.7	365.3
80°	311.8	311.2	376.9	389.1	340.1	395.0	331.3	372.0	316.9	320.0	141.5
82.5°	202.5	200.4	230.5	251.3	189.3	199.0	133.6	192.5	206.5	89.2	44.7
85°	90.7	94.5	110.8	146.2	82.9	44.1	27.2	59.2	88.0	44.9	0.0
87.5°	9.4	7.3	19.5	35.6	11.4	1.2	4.1	2.0	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: P450376

CATALOG NUMBER: GALN-SA1A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	894.2	894.2	894.2	894.2	894.2	894.2	894.2	894.2	894.2	894.2	894.2
2.5°	967.6	955.8	920.7	887.7	859.5	824.9	802.6	767.4	746.0	739.5	740.6
5°	928.8	894.8	828.0	774.5	714.9	681.0	629.4	579.8	552.9	543.0	538.5
7.5°	847.5	811.1	730.4	646.4	582.6	523.0	484.6	440.9	411.0	386.4	382.2
10°	787.1	739.3	639.3	549.1	498.6	453.9	415.5	371.8	336.6	308.6	300.9
12.5°	750.9	697.5	585.9	510.2	462.5	416.5	366.5	315.9	279.9	249.6	235.6
15°	744.4	682.4	570.8	482.4	423.4	367.9	301.5	246.8	209.8	181.1	172.4
17.5°	783.7	709.5	568.6	453.3	372.4	293.7	224.6	179.3	137.6	121.6	115.3
20°	853.6	757.2	568.4	419.6	320.0	226.3	157.7	116.9	100.0	92.3	88.6
22.5°	948.9	822.3	579.1	390.5	265.5	166.9	112.6	93.1	83.3	77.0	75.6
25°	1065.4	918.6	605.6	370.8	223.8	130.9	92.9	79.7	71.6	68.7	67.5
27.5°	1168.9	1010.9	634.6	350.5	193.9	115.9	86.2	73.0	66.5	64.2	62.4
30°	1258.1	1094.7	648.7	323.6	169.9	106.1	87.4	78.1	69.5	62.8	59.8
32.5°	1332.5	1158.9	657.8	299.2	149.6	86.8	69.1	60.4	56.5	54.1	52.0
35°	1425.6	1228.4	652.3	285.4	139.2	79.1	63.0	52.0	45.5	40.7	38.6
37.5°	1523.2	1298.0	642.8	274.0	134.6	73.4	60.0	49.4	42.3	37.2	34.6
40°	1624.2	1362.4	631.6	263.5	130.3	69.7	58.1	47.2	40.0	34.6	31.7
42.5°	1716.7	1425.2	627.1	256.5	123.4	70.3	56.7	46.1	37.8	32.1	29.7
45°	1791.5	1484.8	633.2	252.9	115.9	69.3	57.1	44.9	36.0	30.5	28.1
47.5°	1871.4	1568.9	652.9	249.2	108.6	64.4	60.2	44.7	35.2	29.5	26.8
50°	1964.3	1676.7	698.1	240.3	99.6	59.2	64.0	44.5	34.2	28.3	25.6
52.5°	2088.1	1799.0	744.6	224.6	86.6	54.1	61.2	43.9	32.1	26.8	24.2
55°	2199.3	1927.9	784.1	206.1	70.1	46.8	55.1	41.3	28.7	24.4	22.0
57.5°	2245.2	2000.7	782.8	180.5	56.1	41.1	45.3	37.8	25.0	21.5	19.5
59°	2228.4	1991.5	756.6	161.6	51.2	38.0	37.6	37.4	23.4	19.5	17.9
60°	2204.6	1958.2	728.4	152.3	48.2	36.0	34.6	37.0	22.0	18.3	16.7
62.5°	2113.5	1820.0	634.6	136.4	44.1	30.5	27.6	31.3	19.5	15.9	14.4
65°	1981.6	1607.6	537.3	131.9	42.9	25.2	23.0	22.4	16.7	13.4	12.2
67.5°	1724.2	1360.4	435.2	128.9	43.3	21.1	20.1	16.9	13.8	11.2	10.4
70°	1380.5	1060.7	356.4	125.4	43.7	17.3	16.9	13.4	11.2	9.4	8.5
72.5°	838.7	628.7	280.5	109.0	42.5	13.8	15.0	10.2	8.1	6.7	6.3
75°	518.6	430.3	174.0	84.8	28.1	10.2	10.6	6.3	5.5	4.3	4.3
77.5°	300.5	271.8	62.2	30.5	12.4	6.1	4.7	3.3	3.0	1.8	1.8
80°	124.6	99.8	21.5	10.4	6.7	2.8	1.0	0.2	0.0	0.0	0.0
82.5°	36.4	32.3	5.9	4.7	2.0	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: P450376

CATALOG NUMBER: GALN-SA1A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	894.2	894.2	894.2	894.2	894.2	894.2	894.2	894.2	894.2	894.2	894.2
2.5°	723.3	716.6	713.5	723.9	714.3	726.5	717.2	721.2	733.2	738.5	752.1
5°	541.3	534.4	531.2	546.8	546.0	553.7	552.9	560.0	566.1	552.5	566.5
7.5°	377.1	372.4	380.1	392.3	405.3	401.1	401.1	391.5	394.8	392.7	392.1
10°	286.8	270.8	266.7	266.3	271.2	272.2	266.7	253.5	258.4	259.8	268.3
12.5°	225.6	213.2	194.3	185.8	183.6	185.4	167.3	155.7	161.2	157.9	166.3
15°	161.8	151.6	140.5	130.9	128.3	124.6	104.9	91.1	89.4	90.1	91.5
17.5°	115.5	108.6	108.6	98.4	92.9	81.9	72.0	65.9	65.3	65.9	66.9
20°	85.2	81.5	81.1	78.5	72.4	65.1	58.1	56.9	56.5	57.5	57.9
22.5°	73.4	69.5	66.3	66.1	60.4	54.3	51.0	49.4	49.6	50.0	51.0
25°	65.7	61.6	58.1	56.1	52.0	47.8	44.7	43.9	43.9	44.5	44.7
27.5°	60.2	55.1	52.0	49.2	45.5	41.9	39.2	38.6	38.2	38.6	39.6
30°	56.3	51.2	47.4	43.1	40.2	36.8	34.6	33.7	33.5	33.7	34.6
32.5°	48.2	45.1	42.1	38.2	34.8	32.5	30.1	28.7	28.7	29.1	29.9
35°	36.4	34.8	34.6	33.5	30.7	28.3	25.4	24.0	24.0	24.8	25.2
37.5°	32.1	29.1	28.7	28.3	27.0	23.8	21.1	19.9	19.7	20.3	21.1
40°	29.3	25.8	24.0	23.6	23.8	20.1	17.3	16.1	16.1	16.3	17.1
42.5°	27.0	23.0	19.7	19.3	20.1	16.9	14.0	12.8	12.8	12.8	13.8
45°	25.2	20.5	16.7	14.6	15.9	13.8	11.4	10.2	9.8	10.2	10.6
47.5°	24.0	18.7	14.6	11.8	11.8	11.0	9.1	7.7	7.3	7.5	8.1
50°	23.0	17.1	12.4	9.6	8.5	8.7	6.9	5.9	5.5	5.5	6.1
52.5°	21.3	15.4	10.8	8.1	6.5	5.9	5.1	4.3	4.1	4.3	4.7
55°	19.3	14.0	9.4	6.7	5.1	4.1	3.7	3.0	2.8	3.0	3.7
57.5°	17.1	11.8	7.5	5.3	3.5	2.6	2.4	2.0	1.6	1.8	2.2
59°	15.7	10.6	6.5	4.3	2.6	1.8	1.8	1.4	1.0	1.2	1.8
60°	15.0	9.8	5.5	3.7	2.2	1.4	1.4	1.0	0.6	0.8	1.4
62.5°	12.8	8.1	4.3	2.2	1.0	0.2	0.6	0.2	0.0	0.2	0.6
65°	10.8	6.5	2.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
67.5°	8.9	4.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.2	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: P450376

CATALOG NUMBER: GALN-SA1A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	894.2	894.2	894.2	894.2	894.2	894.2	894.2	894.2	894.2	894.2
2.5°	753.0	782.0	799.9	833.7	868.2	894.8	928.2	958.1	970.5	977.0
5°	580.8	621.2	655.6	707.0	754.8	812.9	871.9	941.4	968.0	974.9
7.5°	407.6	448.8	484.8	544.4	612.5	690.3	778.6	866.8	905.6	916.6
10°	294.4	338.5	382.4	441.9	505.6	589.9	681.8	791.0	835.7	844.2
12.5°	185.8	233.2	304.5	378.1	445.4	513.3	609.4	728.2	777.6	793.2
15°	107.7	143.1	197.0	292.9	378.5	468.4	573.3	704.6	759.9	775.9
17.5°	72.2	84.4	121.4	194.7	307.8	426.9	564.1	723.9	785.1	805.6
20°	60.8	66.3	79.3	118.7	237.0	389.9	566.5	776.3	856.6	882.2
22.5°	53.5	58.5	66.9	85.4	165.5	344.0	578.1	851.3	955.0	987.7
25°	47.2	52.2	59.6	70.7	111.2	290.9	603.5	961.1	1085.3	1121.3
27.5°	41.9	46.6	52.9	62.4	85.6	231.7	626.1	1068.0	1204.2	1233.5
30°	37.0	40.9	47.0	54.3	71.1	178.7	637.5	1161.6	1290.8	1323.4
32.5°	32.1	35.8	41.7	47.6	58.5	136.2	629.6	1230.3	1375.0	1395.7
35°	27.4	31.3	36.2	41.7	50.6	110.0	589.9	1307.5	1462.2	1478.5
37.5°	23.6	26.8	31.9	36.2	45.7	88.0	541.9	1377.0	1560.0	1583.4
40°	19.9	23.2	28.3	32.1	42.1	69.3	498.6	1454.3	1663.0	1691.9
42.5°	16.3	20.1	24.6	30.9	36.2	52.9	446.2	1516.9	1740.5	1776.7
45°	13.0	17.3	22.2	30.7	31.5	40.2	395.6	1565.7	1809.0	1841.5
47.5°	10.4	14.6	21.3	28.7	25.8	31.9	366.7	1616.7	1865.9	1891.9
50°	8.3	12.2	22.4	25.2	21.5	27.0	365.9	1673.6	1895.4	1912.7
52.5°	6.7	10.0	18.9	19.3	18.3	23.8	387.9	1737.7	1925.5	1939.7
55°	5.7	8.3	12.4	14.2	16.5	21.5	404.3	1836.2	1997.2	2010.7
57.5°	4.5	7.1	9.6	11.4	14.6	19.7	406.6	1912.3	2088.1	2096.8
59°	3.9	6.1	8.5	10.2	13.4	18.5	397.4	1916.9	2094.0	2108.0
60°	3.3	5.5	7.5	9.6	12.4	17.5	387.5	1883.0	2072.0	2087.7
62.5°	2.4	4.3	5.5	7.7	10.2	15.0	340.3	1764.5	1988.1	1999.1
65°	1.6	3.0	4.1	5.7	7.9	13.0	277.3	1610.8	1858.4	1883.0
67.5°	1.0	2.2	3.3	4.3	6.5	11.0	197.6	1381.3	1676.9	1692.7
70°	0.6	1.4	2.4	3.5	5.1	8.7	117.3	1091.8	1395.1	1398.4
72.5°	0.4	1.0	1.6	2.4	4.1	7.9	56.9	711.7	1018.6	1057.5
75°	0.2	0.6	1.0	1.8	3.3	6.5	27.2	475.5	741.2	752.3
77.5°	0.0	0.2	0.6	1.2	2.4	5.1	15.9	312.2	505.4	516.9
80°	0.0	0.0	0.4	1.0	1.8	3.3	9.6	184.2	306.1	311.8
82.5°	0.0	0.0	0.2	0.8	1.2	2.4	4.9	80.9	200.4	202.5
85°	0.0	0.0	0.2	0.8	1.0	1.6	1.8	11.0	89.0	90.7
87.5°	0.0	0.0	0.2	1.0	1.0	1.0	1.0	0.6	7.5	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)