

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: P955555

Luminaire Tested: **GALN-SB8C-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-722-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38232 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 399.8
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

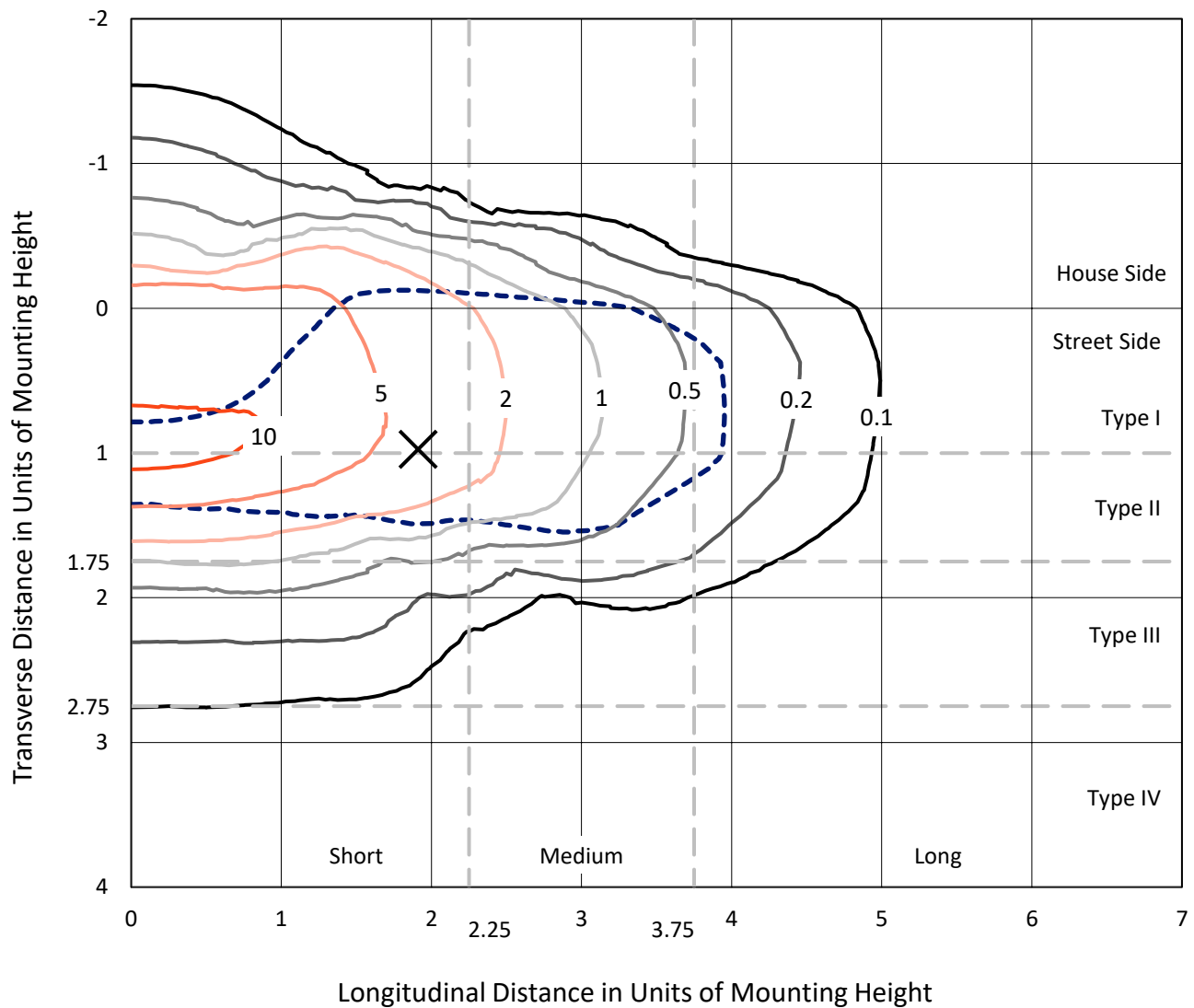


REPORT NUMBER: P955555

CATALOG NUMBER: GALN-SB8C-722-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

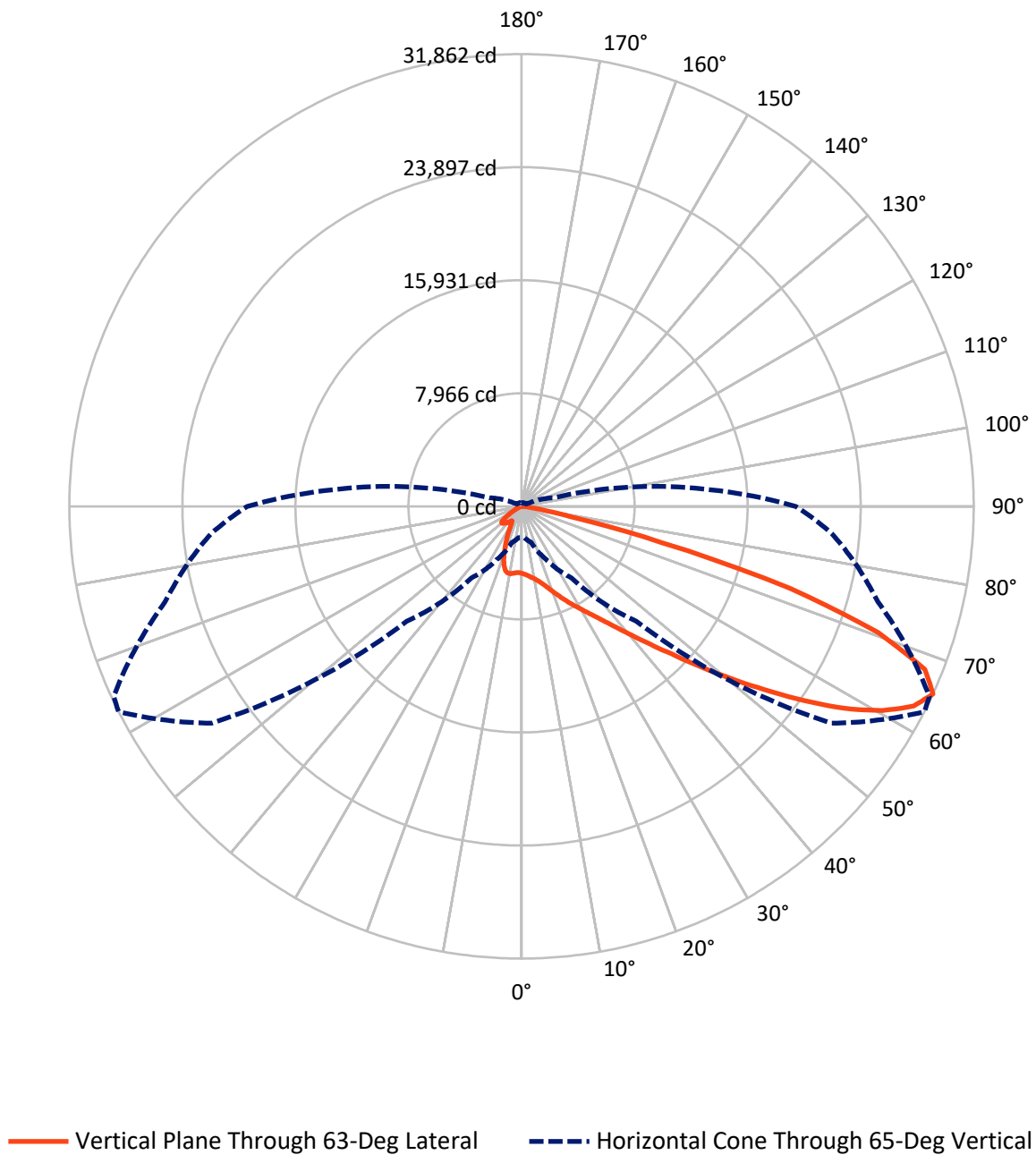


Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
Type II - Short - N/A

REPORT NUMBER: P955555

CATALOG NUMBER: GALN-SB8C-722-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P955555

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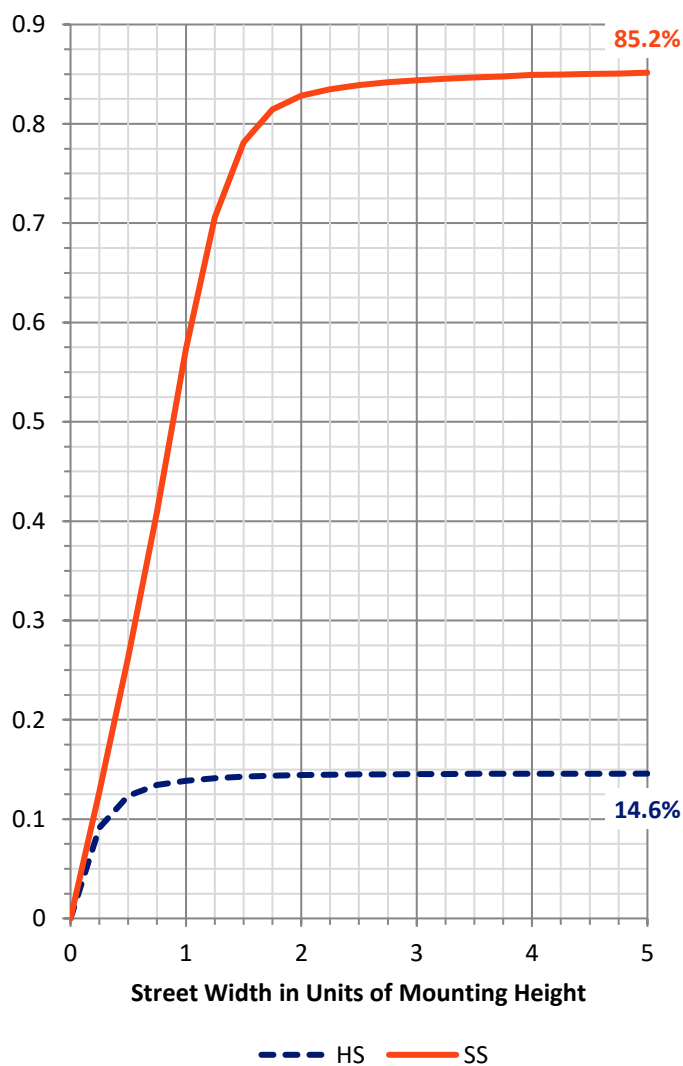
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5619.8	0.0	5619.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	32612.2	0.0	32612.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	38232.0	0.0	38232.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.6	1.2
10°-20°	1233.5	3.2
20°-30°	2147.9	5.6
30°-40°	3871.4	10.1
40°-50°	7678.2	20.1
50°-60°	10458.9	27.4
60°-70°	8348.2	21.8
70°-80°	3777.8	9.9
80°-90°	271.5	0.7
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°	38232.0	100.0
0°-180°	38232.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955555

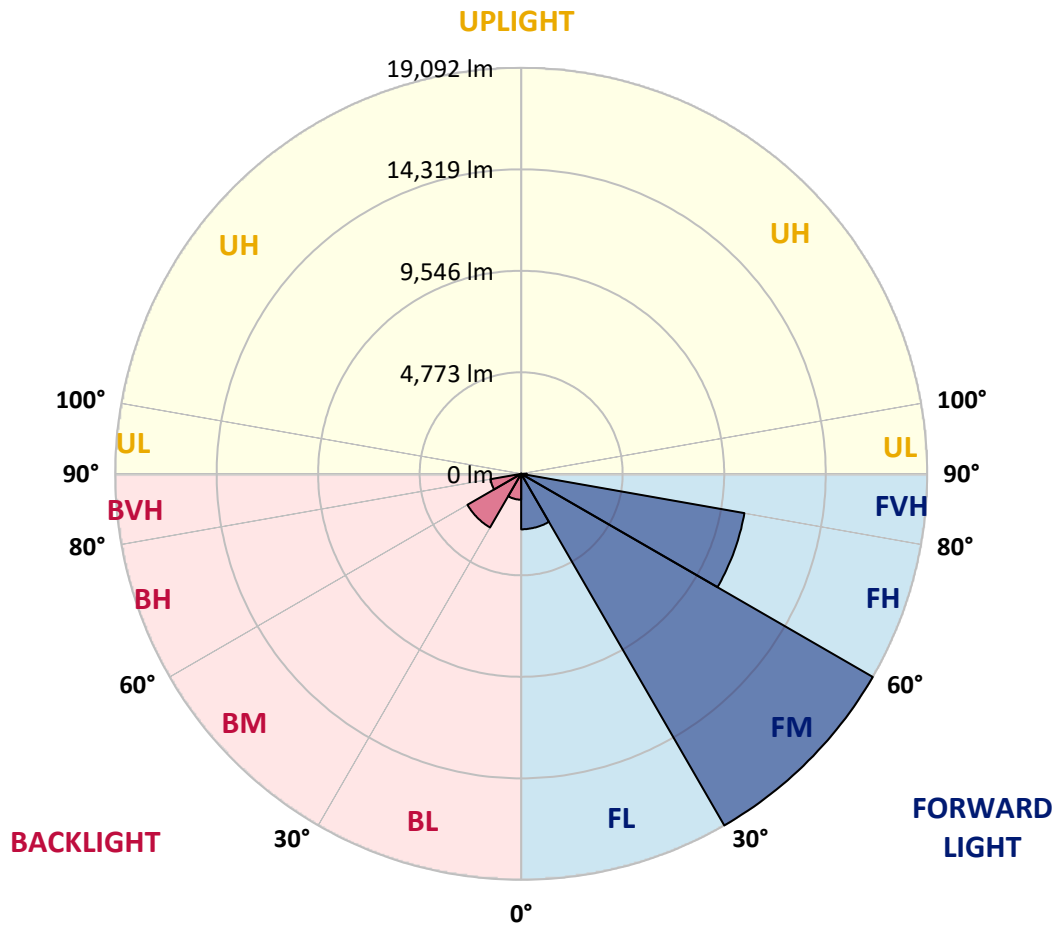
CATALOG NUMBER: GALN-SB8C-722-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2609.8	6.8			
FM	(30°-60°)	19092.1	49.9			
FH	(60°-80°)	10658.9	27.9			G4/12000
FVH	(80°-90°)	251.4	0.7			G3/500
BL	(0°-30°)	1216.2	3.2	B3/2500		
BM	(30°-60°)	2916.3	7.6	B3/5000		
BH	(60°-80°)	1467.1	3.8	B3/2500		G3/2500
BVH	(80°-90°)	20.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



REPORT NUMBER: P955555

CATALOG NUMBER: GALN-SB8C-722-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	4718.6	4718.6	4718.6	4718.6	4718.6	4718.6	4718.6	4718.6	4718.6	4718.6	4718.6
2.5°	4829.0	4815.9	4834.3	4826.4	4821.1	4810.6	4805.3	4800.1	4789.6	4781.7	4750.1
5°	4842.2	4834.3	4852.7	4868.5	4884.3	4900.0	4907.9	4918.4	4907.9	4886.9	4855.3
7.5°	4731.7	4726.4	4765.9	4813.2	4884.3	4944.7	5010.5	5047.3	5050.0	5042.1	5007.9
10°	4723.8	4710.7	4750.1	4808.0	4900.0	5007.9	5123.6	5202.5	5213.0	5247.2	5210.4
12.5°	4847.4	4834.3	4889.5	4952.6	5047.3	5160.4	5302.5	5412.9	5428.7	5476.0	5449.7
15°	5055.2	5036.8	5099.9	5181.5	5302.5	5431.3	5581.3	5681.2	5694.3	5752.2	5704.9
17.5°	5297.2	5278.8	5352.4	5439.2	5570.7	5747.0	5920.5	6031.0	6046.8	6083.6	5996.8
20°	5607.6	5583.9	5641.7	5720.7	5860.1	6070.5	6278.3	6436.1	6433.4	6433.4	6291.4
22.5°	5967.9	5931.1	5981.0	6044.2	6175.7	6430.8	6707.0	6893.7	6893.7	6820.1	6586.0
25°	6354.5	6317.7	6372.9	6430.8	6546.5	6835.8	7159.4	7390.8	7401.3	7275.1	6901.6
27.5°	6838.5	6791.1	6833.2	6901.6	6970.0	7264.6	7648.6	7916.9	7922.1	7727.5	7201.4
30°	7769.6	7635.4	7503.9	7430.3	7461.8	7753.8	8164.1	8461.3	8487.6	8219.3	7527.6
32.5°	9473.9	9447.6	8984.7	8379.8	8064.1	8279.8	8740.1	9097.8	9113.6	8769.0	7951.0
35°	12122.5	12091.0	11346.6	10194.6	9166.2	8984.7	9439.7	9863.2	9852.7	9463.4	8500.8
37.5°	15284.0	15255.1	14274.0	12732.7	11067.8	10049.9	10341.9	10786.4	10852.1	10341.9	9210.9
40°	17985.2	17877.4	17256.6	15770.6	13592.8	11817.4	11625.4	11920.0	11988.4	11383.4	10113.1
42.5°	20031.5	19939.4	19623.8	18695.4	16649.1	14431.8	13137.8	13250.9	13327.1	12601.2	11149.4
45°	21091.5	21070.4	21196.7	21109.9	19763.2	17640.6	15299.8	14829.0	14857.9	13950.5	12325.0
47.5°	21241.4	21230.9	21806.9	22622.2	22440.7	21259.8	18074.6	16796.4	16693.8	15473.4	13603.3
50°	20357.6	20336.6	21441.3	22969.4	24229.3	24300.3	21225.6	19013.6	18787.4	17048.9	14936.8
52.5°	17535.4	17530.2	19345.0	21888.4	24857.9	26962.0	24339.7	21449.2	21070.4	18716.4	16346.6
55°	13492.8	13590.2	15670.6	18676.9	23711.1	28242.9	27135.6	24153.0	23571.7	20394.5	17645.9
57.5°	9558.1	9700.1	11756.9	14434.5	20155.1	27485.4	29026.7	26862.1	26236.1	22067.2	18963.6
60°	5134.1	5260.4	7319.8	10515.5	14994.7	24660.6	30023.6	29213.5	28621.7	23655.9	20152.5
62.5°	3058.9	3101.0	3953.2	6788.5	10142.0	18840.0	29600.1	31004.6	30518.0	24989.4	21186.1
65°	2196.2	2204.1	2632.8	4145.2	6157.3	11446.6	26630.6	31862.1	31712.1	25994.1	21951.5
67.5°	1849.0	1843.8	2022.6	2753.8	4195.1	5733.8	20410.2	30649.5	31286.0	26630.6	22385.5
70°	1586.0	1593.9	1804.3	2017.4	3153.6	3245.6	10147.3	26685.9	28043.0	26799.0	22359.2
72.5°	1181.0	1207.3	1401.9	1838.5	2380.3	2233.0	3503.4	19786.9	22240.8	25249.8	21199.3
75°	833.8	846.9	986.3	1546.5	1775.4	1625.5	1788.5	10228.8	13374.5	19358.2	17351.3
77.5°	641.8	665.4	747.0	1081.0	1749.1	1141.5	1094.2	3540.2	5439.2	11693.8	11896.3
80°	347.2	389.3	539.2	781.2	1228.3	807.5	541.8	1409.8	1843.8	5468.2	4587.0
82.5°	178.9	199.9	376.1	562.9	699.6	704.9	268.3	586.5	760.1	1688.6	628.6
85°	71.0	86.8	252.5	310.4	360.3	347.2	121.0	236.7	273.5	468.2	192.0
87.5°	15.8	26.3	92.1	71.0	68.4	73.6	28.9	55.2	52.6	55.2	34.2
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: P955555

CATALOG NUMBER: GALN-SB8C-722-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4718.6	4718.6	4718.6	4718.6	4718.6	4718.6	4718.6	4718.6	4718.6	4718.6	4718.6
2.5°	4747.5	4737.0	4708.0	4676.5	4639.6	4618.6	4605.5	4602.8	4584.4	4571.3	4584.4
5°	4826.4	4815.9	4760.6	4694.9	4623.9	4568.6	4516.0	4468.7	4400.3	4387.1	4381.9
7.5°	4984.2	4955.3	4865.8	4776.4	4642.3	4481.8	4287.2	4063.6	3863.7	3803.2	3774.3
10°	5178.8	5139.4	5026.3	4868.5	4571.3	4134.7	3663.8	3227.2	2880.1	2782.7	2745.9
12.5°	5399.8	5365.6	5215.7	4923.7	4274.0	3482.4	2761.7	2219.9	1883.2	1799.0	1775.4
15°	5662.8	5612.8	5405.0	4839.5	3742.8	2646.0	1896.4	1575.5	1454.5	1438.7	1422.9
17.5°	5941.6	5860.1	5573.4	4537.1	3027.3	1880.6	1465.0	1373.0	1320.4	1304.6	1296.7
20°	6196.7	6091.5	5673.3	4079.4	2262.0	1465.0	1312.5	1252.0	1204.6	1186.2	1175.7
22.5°	6451.8	6301.9	5673.3	3456.1	1696.5	1299.3	1204.6	1149.4	1094.2	1070.5	1057.3
25°	6717.5	6517.6	5573.4	2761.7	1365.1	1191.5	1102.0	1041.6	994.2	965.3	954.8
27.5°	6975.2	6699.1	5344.5	2104.1	1215.1	1096.8	1007.4	949.5	904.8	883.7	883.7
30°	7219.9	6877.9	5023.7	1596.5	1117.8	1004.7	920.6	870.6	825.9	804.8	807.5
32.5°	7551.3	7104.1	4681.7	1309.8	1033.7	917.9	841.7	794.3	754.9	739.1	739.1
35°	8011.5	7438.2	4387.1	1286.2	962.6	846.9	770.6	725.9	686.5	673.3	673.3
37.5°	8663.8	7977.3	4232.0	1444.0	904.8	783.8	712.8	665.4	628.6	618.1	615.5
40°	9468.7	8708.5	4316.1	1601.8	865.3	728.6	660.2	612.8	581.3	568.1	565.5
42.5°	10423.4	9610.7	4781.7	1722.8	839.0	681.2	610.2	557.6	536.6	531.3	531.3
45°	11520.2	10602.3	5494.5	1851.6	796.9	636.5	560.2	520.8	505.0	502.4	499.7
47.5°	12766.9	11691.2	6320.3	2012.1	754.9	594.4	520.8	494.5	481.3	476.1	476.1
50°	14003.1	12788.0	7169.9	2101.5	720.7	555.0	489.2	468.2	457.7	455.0	455.0
52.5°	15297.2	13916.3	7856.4	2017.4	691.7	523.4	462.9	447.1	436.6	434.0	434.0
55°	16530.7	14829.0	7974.7	1712.3	633.9	491.8	434.0	426.1	412.9	412.9	410.3
57.5°	17593.3	15286.6	7138.3	1257.2	576.0	444.5	405.0	397.2	386.6	384.0	381.4
60°	18569.1	15155.1	5510.2	846.9	512.9	397.2	368.2	363.0	352.4	339.3	336.7
62.5°	19118.8	14576.5	3769.1	552.3	449.8	347.2	326.1	323.5	299.8	273.5	268.3
65°	19326.6	13387.6	2351.4	402.4	376.1	297.2	281.4	276.2	242.0	213.0	210.4
67.5°	19145.1	11430.8	1186.2	318.3	297.2	247.2	231.5	231.5	207.8	181.5	178.9
70°	18419.2	8569.1	499.7	255.1	228.8	189.4	189.4	199.9	176.2	147.3	144.7
72.5°	16843.7	5765.4	265.6	194.6	171.0	134.1	155.2	163.1	139.4	110.5	110.5
75°	13390.3	3516.6	184.1	144.7	107.8	94.7	118.4	123.6	94.7	73.6	71.0
77.5°	9158.3	2020.0	123.6	92.1	68.4	55.2	81.5	76.3	50.0	34.2	36.8
80°	4021.6	841.7	71.0	42.1	26.3	21.0	28.9	21.0	15.8	10.5	10.5
82.5°	470.8	197.3	26.3	15.8	10.5	5.3	2.6	0.0	0.0	0.0	0.0
85°	97.3	23.7	13.2	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.4	5.3	2.6	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

(END OF REPORT)