

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: P951312

Luminaire Tested: **GALN-SB5C-730-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-730-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38533 lumens
Efficiency: N/A
Efficacy: 154.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.5
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

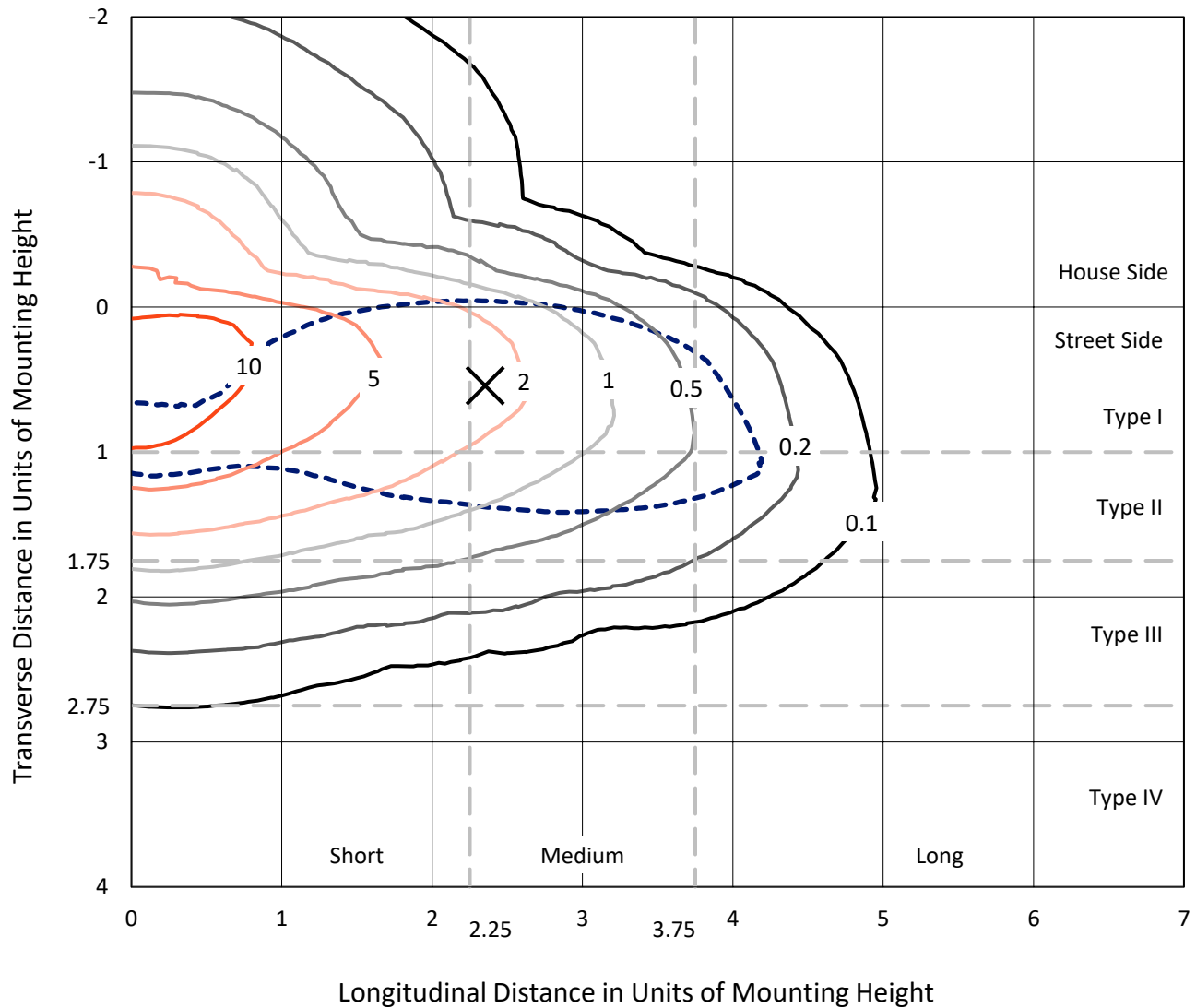


REPORT NUMBER: P951312

CATALOG NUMBER: GALN-SB5C-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

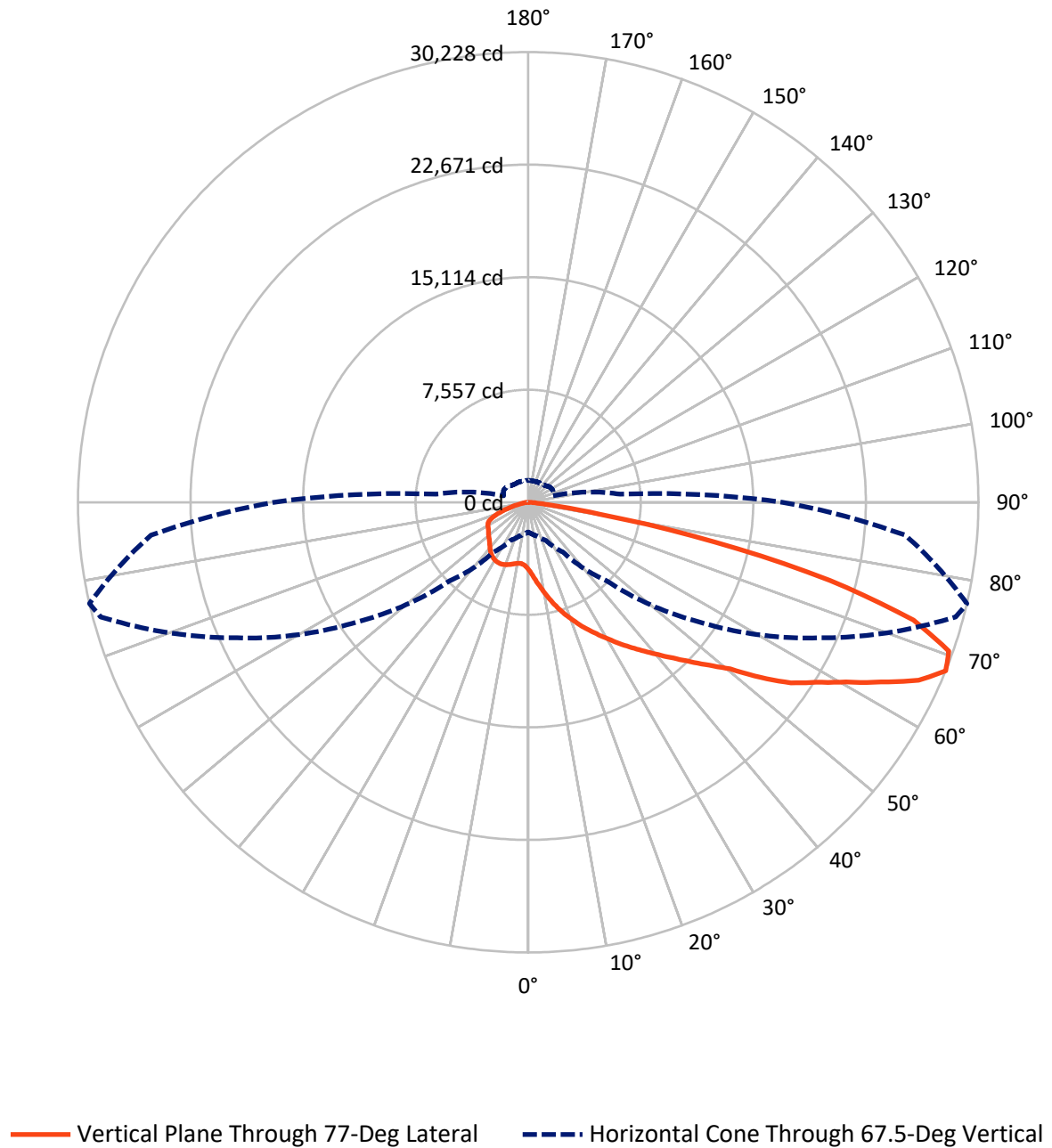
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P951312
CATALOG NUMBER: GALN-SB5C-730-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P951312

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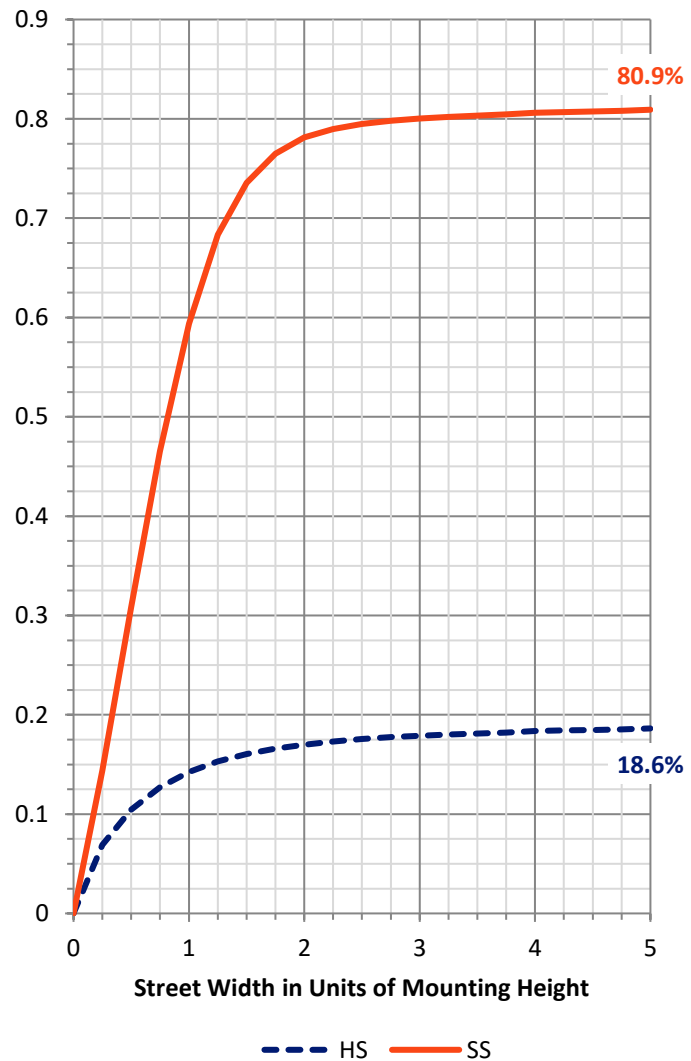
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7288.9	0.0	7288.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	31244.1	0.0	31244.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	38533.0	0.0	38533.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.6	1.3
10°-20°	1741.0	4.5
20°-30°	3287.1	8.5
30°-40°	5295.5	13.7
40°-50°	7243.3	18.8
50°-60°	8170.5	21.2
60°-70°	7626.2	19.8
70°-80°	4180.4	10.8
80°-90°	504.3	1.3
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°	38533.0	100.0
0°-180°	38533.0	100.0

Coefficient of Utilization



REPORT NUMBER: P951312

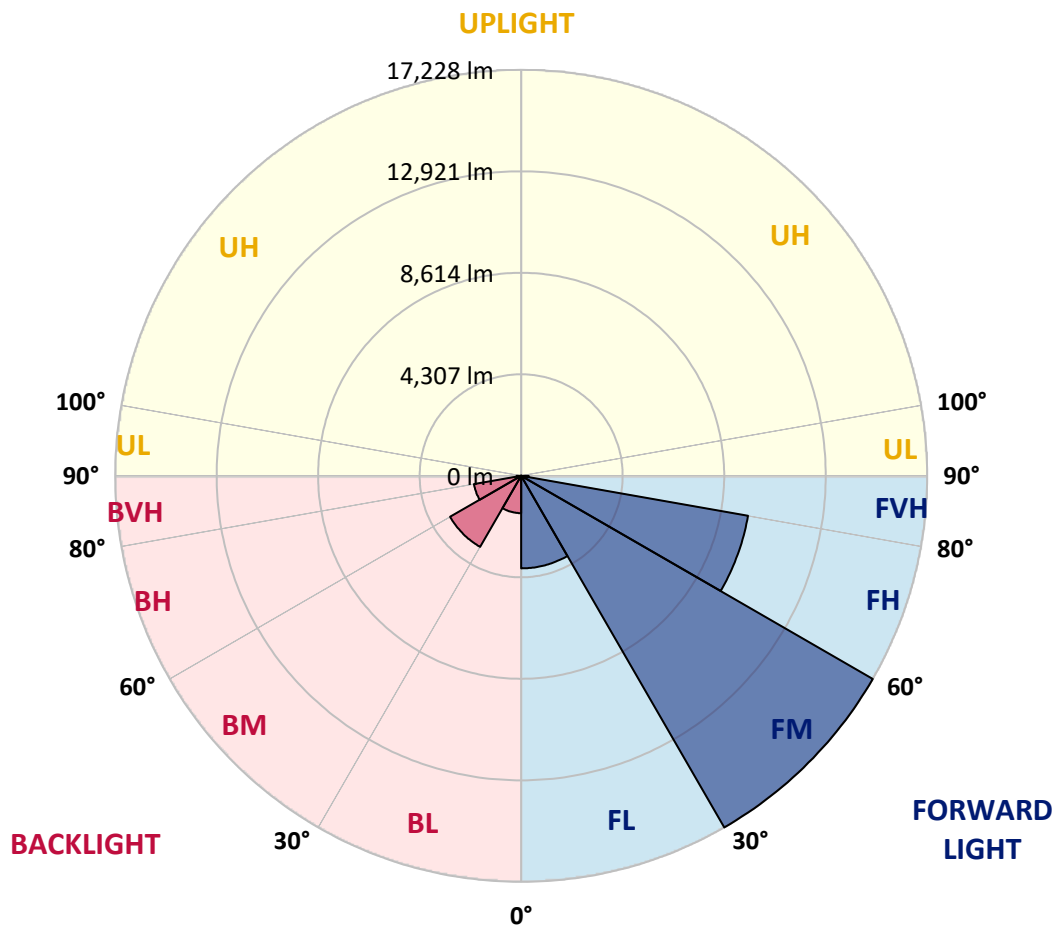
CATALOG NUMBER: GALN-SB5C-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3928.0	10.2			
FM	(30°-60°)	17227.7	44.7			
FH	(60°-80°)	9773.1	25.4			G4/12000
FVH	(80°-90°)	315.4	0.8			G3/500
BL	(0°-30°)	1584.8	4.1	B3/2500		
BM	(30°-60°)	3481.7	9.0	B3/5000		
BH	(60°-80°)	2033.5	5.3	B3/2500		G3/2500
BVH	(80°-90°)	188.9	0.5			G2/225
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 Medium



REPORT NUMBER: P951312

CATALOG NUMBER: GALN-SB5C-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4521.1	4521.1	4521.1	4521.1	4521.1	4521.1	4521.1	4521.1	4521.1	4521.1	4521.1
2.5°	5660.8	5700.6	5650.9	5650.9	5483.8	5396.3	5229.2	5101.9	4873.2	4833.4	4682.2
5°	6691.2	6740.9	6671.3	6641.4	6444.5	6263.5	5983.1	5706.6	5298.8	5257.1	4901.0
7.5°	7488.8	7552.4	7490.8	7458.9	7283.9	7081.0	6752.8	6367.0	5792.1	5710.6	5195.4
10°	8139.2	8149.2	8129.3	8141.2	8004.0	7836.9	7500.7	7051.2	6333.1	6221.8	5551.4
12.5°	8507.2	8552.9	8592.7	8664.3	8640.4	8537.0	8234.7	7697.6	6906.0	6762.8	5939.3
15°	8680.2	8759.8	8849.3	9014.4	9147.7	9173.5	8942.8	8391.8	7488.8	7315.7	6331.2
17.5°	8741.9	8817.5	8958.7	9197.4	9483.8	9676.7	9573.3	9066.1	8065.6	7866.7	6742.9
20°	9054.2	9076.0	9161.6	9388.3	9698.6	10018.9	10096.4	9714.5	8636.5	8411.7	7168.5
22.5°	9722.5	9678.7	9702.6	9806.0	10028.8	10339.1	10516.1	10287.4	9223.2	8964.7	7598.2
25°	10826.4	10699.1	10571.8	10452.5	10565.9	10740.9	10941.8	10860.2	9837.9	9509.7	8031.8
27.5°	12220.7	12065.6	11785.1	11393.3	11256.1	11317.7	11407.2	11391.3	10406.7	10074.6	8479.3
30°	13593.2	13412.2	13078.0	12511.1	12149.1	11986.0	11918.4	11872.7	11025.3	10671.3	8930.8
32.5°	14689.2	14545.9	14217.8	13583.2	13058.1	12779.7	12554.9	12391.8	11671.8	11317.7	9408.2
35°	15647.9	15514.6	15138.7	14446.5	13875.6	13579.3	13284.9	12936.8	12344.1	11986.0	9921.4
37.5°	16523.1	16389.8	15874.6	15154.6	14579.8	14374.9	14112.3	13521.6	13018.4	12680.2	10464.4
40°	17076.0	17046.2	16564.8	15749.3	15152.6	15051.2	14963.6	14199.9	13766.2	13452.0	11061.1
42.5°	17217.2	17282.9	16901.0	16230.7	15661.8	15580.3	15785.1	14967.6	14605.6	14305.3	11737.4
45°	16877.1	17066.1	16815.5	16360.0	16023.8	15980.1	16513.1	15807.0	15534.5	15260.0	12552.9
47.5°	16015.9	16336.1	16232.7	16169.0	16121.3	16310.2	17153.6	16698.1	16586.7	16348.0	13483.8
50°	14277.4	14884.1	15065.1	15466.9	15928.3	16566.8	17736.4	17670.7	17815.9	17575.3	14617.6
52.5°	11272.0	12107.4	13157.6	14164.0	15335.6	16481.3	18376.9	19067.1	19679.7	19548.4	16419.6
55°	9304.8	9680.7	10488.3	12334.1	14185.9	16121.3	18665.3	20194.9	21529.5	21412.2	17786.1
57.5°	7793.1	8129.3	8626.5	10168.0	12447.5	15303.8	18844.3	20883.1	22796.5	22784.6	19134.7
60°	6172.0	6528.1	7037.3	8129.3	10416.7	13891.5	18804.5	21666.8	24413.6	24513.1	20779.6
62.5°	4342.1	4733.9	5298.8	6317.2	8342.1	12061.6	17993.0	22233.6	26317.2	26587.7	22758.7
65°	2854.3	3112.9	3538.5	4417.7	6215.8	9708.6	16443.5	22307.2	28354.0	28811.4	24616.5
67.5°	2001.0	2100.4	2351.1	2828.4	4097.4	7445.0	13975.1	21545.4	29712.5	30227.6	25422.1
70°	1561.4	1611.1	1738.4	1929.4	2573.8	5006.4	10709.1	19564.3	29422.1	29959.1	24580.7
72.5°	1348.6	1396.3	1444.1	1467.9	1726.5	3091.0	7254.1	16358.0	26687.1	27051.1	21372.4
75°	1223.3	1235.2	1275.0	1267.0	1316.8	2005.0	4187.0	11918.4	21056.1	20930.8	15777.2
77.5°	1028.3	1044.3	1109.9	1099.9	1169.6	1370.5	2174.0	7691.7	13650.9	12799.6	8781.7
80°	871.2	879.2	950.8	938.8	1016.4	992.5	1109.9	3920.4	5790.1	4905.0	2532.1
82.5°	302.3	373.9	726.0	747.9	775.7	600.7	640.5	1599.2	1768.3	1354.5	531.1
85°	147.2	157.1	370.0	525.1	523.1	302.3	312.3	570.9	556.9	437.6	177.0
87.5°	23.9	29.8	43.8	204.9	163.1	79.6	107.4	111.4	115.4	99.5	39.8
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: P951312

CATALOG NUMBER: GALN-SB5C-730-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4521.1	4521.1	4521.1	4521.1	4521.1	4521.1	4521.1	4521.1	4521.1	4521.1	4521.1
2.5°	4570.8	4471.4	4262.5	4069.6	3918.4	3773.2	3691.7	3622.1	3582.3	3574.3	3574.3
5°	4694.2	4489.3	4109.4	3789.1	3580.3	3425.1	3343.6	3291.9	3266.0	3250.1	3248.1
7.5°	4871.2	4570.8	4029.8	3665.8	3447.0	3335.6	3293.9	3285.9	3283.9	3285.9	3291.9
10°	5115.8	4704.1	4021.9	3636.0	3453.0	3391.3	3389.3	3391.3	3399.3	3401.3	3403.3
12.5°	5380.4	4841.4	4053.7	3661.8	3528.6	3494.8	3488.8	3486.8	3492.8	3496.8	3498.7
15°	5668.8	5022.4	4107.4	3717.5	3612.1	3576.3	3570.4	3558.4	3556.4	3554.4	3552.4
17.5°	5965.2	5201.4	4167.1	3777.2	3665.8	3616.1	3594.2	3566.4	3544.5	3538.5	3544.5
20°	6265.5	5378.4	4208.8	3807.0	3669.8	3600.2	3556.4	3508.7	3470.9	3449.0	3457.0
22.5°	6585.8	5563.4	4234.7	3799.1	3634.0	3538.5	3459.0	3403.3	3345.6	3307.8	3309.8
25°	6898.0	5724.5	4232.7	3757.3	3564.4	3443.1	3341.6	3270.0	3190.4	3150.7	3150.7
27.5°	7198.4	5869.7	4183.0	3683.7	3464.9	3329.7	3208.3	3122.8	3045.2	3007.4	3005.5
30°	7508.7	5991.0	4105.4	3576.3	3347.6	3198.4	3065.1	2991.5	2921.9	2886.1	2884.1
32.5°	7817.0	6102.4	3996.0	3443.1	3212.3	3069.1	2937.8	2870.2	2828.4	2828.4	2830.4
35°	8143.2	6180.0	3850.8	3287.9	3069.1	2931.9	2828.4	2788.7	2784.7	2760.8	2754.8
37.5°	8487.3	6229.7	3673.8	3128.8	2927.9	2798.6	2766.8	2719.0	2679.3	2627.5	2619.6
40°	8849.3	6279.4	3461.0	2963.7	2778.7	2707.1	2693.2	2629.5	2516.2	2388.9	2371.0
42.5°	9288.9	6313.3	3240.2	2798.6	2621.6	2597.7	2617.6	2508.2	2327.2	2231.7	2233.7
45°	9798.1	6368.9	3037.3	2635.5	2460.5	2460.5	2544.0	2400.8	2251.6	2191.9	2201.9
47.5°	10458.4	6498.2	2848.3	2456.5	2311.3	2351.1	2380.9	2271.5	2188.0	2114.4	2112.4
50°	11413.2	6808.5	2653.4	2275.5	2197.9	2277.5	2235.7	2172.0	2074.6	2014.9	2008.9
52.5°	12598.7	6991.5	2480.3	2112.4	2100.4	2180.0	2120.3	2060.7	1987.1	1907.5	1891.6
55°	13406.2	7025.3	2335.1	1993.0	2034.8	2026.8	2005.0	1951.3	1911.5	1806.1	1808.0
57.5°	14309.2	7093.0	2215.8	1921.4	1993.0	1905.5	1897.6	1851.8	1800.1	1728.5	1704.6
60°	15389.3	7198.4	2112.4	1893.6	1957.2	1826.0	1786.2	1768.3	1716.6	1680.7	1690.7
62.5°	16566.8	7293.9	2007.0	1897.6	1915.5	1748.4	1688.7	1682.7	1650.9	1639.0	1639.0
65°	17370.4	7033.3	1875.7	1893.6	1849.8	1668.8	1593.2	1591.2	1565.4	1561.4	1559.4
67.5°	17089.9	6207.8	1698.7	1837.9	1782.2	1589.3	1505.7	1497.8	1463.9	1465.9	1465.9
70°	15685.7	5030.3	1454.0	1700.6	1698.7	1517.6	1414.2	1388.4	1342.6	1350.6	1358.5
72.5°	13052.2	3727.5	1125.8	1471.9	1565.4	1452.0	1308.8	1267.0	1209.3	1217.3	1215.3
75°	9426.1	2534.1	819.5	1119.8	1362.5	1374.4	1205.4	1133.8	1064.1	1076.1	1080.1
77.5°	4823.5	1436.1	602.7	771.8	1070.1	1249.1	1111.9	1016.4	1000.5	1111.9	1096.0
80°	1573.3	720.0	417.7	541.0	702.1	1022.4	974.6	865.2	861.3	887.1	761.8
82.5°	469.4	304.3	268.5	356.0	387.9	783.7	841.4	654.4	562.9	592.7	612.6
85°	161.1	147.2	153.2	177.0	185.0	459.5	588.8	433.6	409.7	451.5	445.5
87.5°	37.8	51.7	43.8	39.8	39.8	111.4	228.7	181.0	250.6	167.1	161.1
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)