

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: P955935

Luminaire Tested: **GALN-SB8D-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63541 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 584.9
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



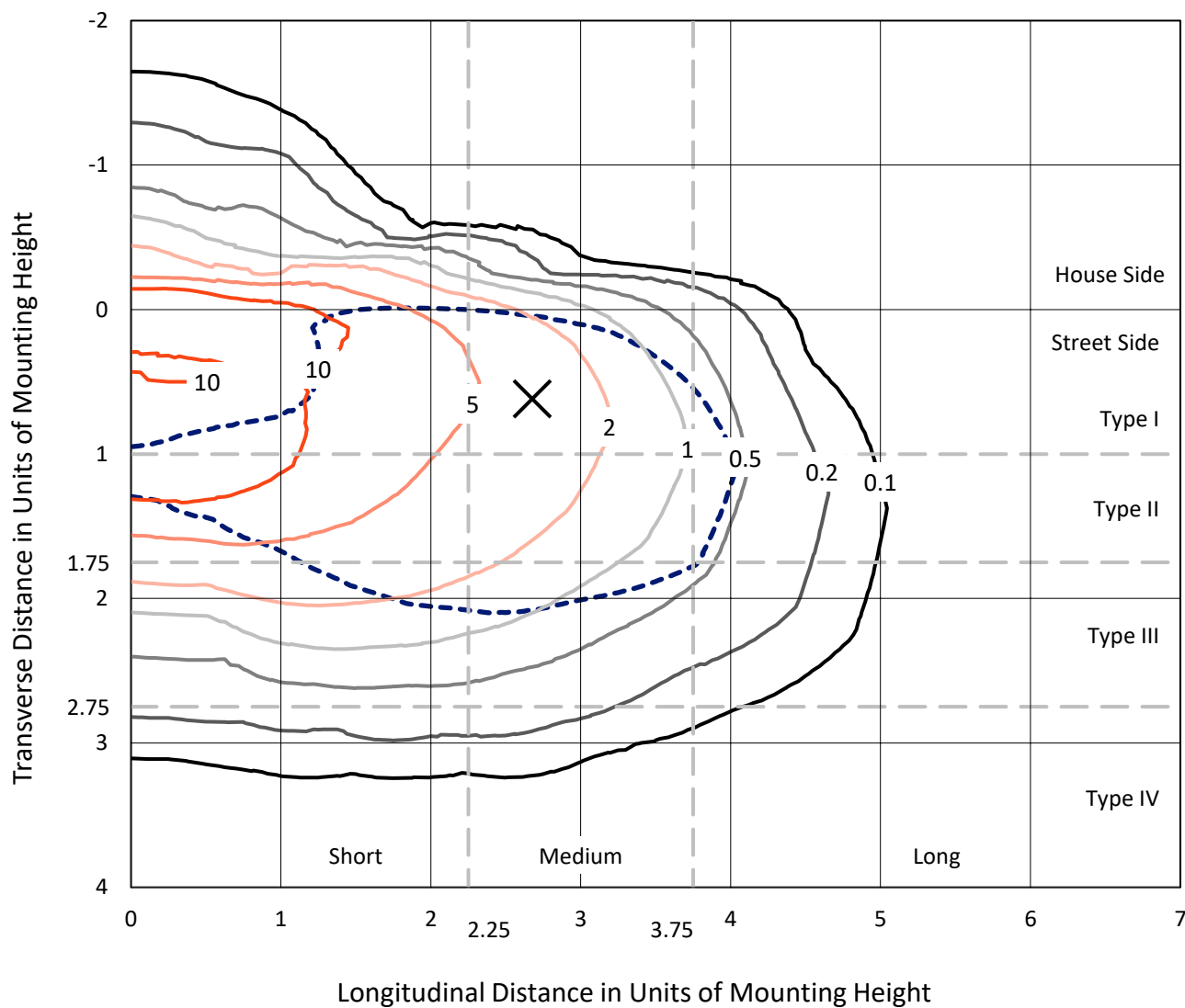
REPORT NUMBER: P955935

CATALOG NUMBER: GALN-SB8D-727-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

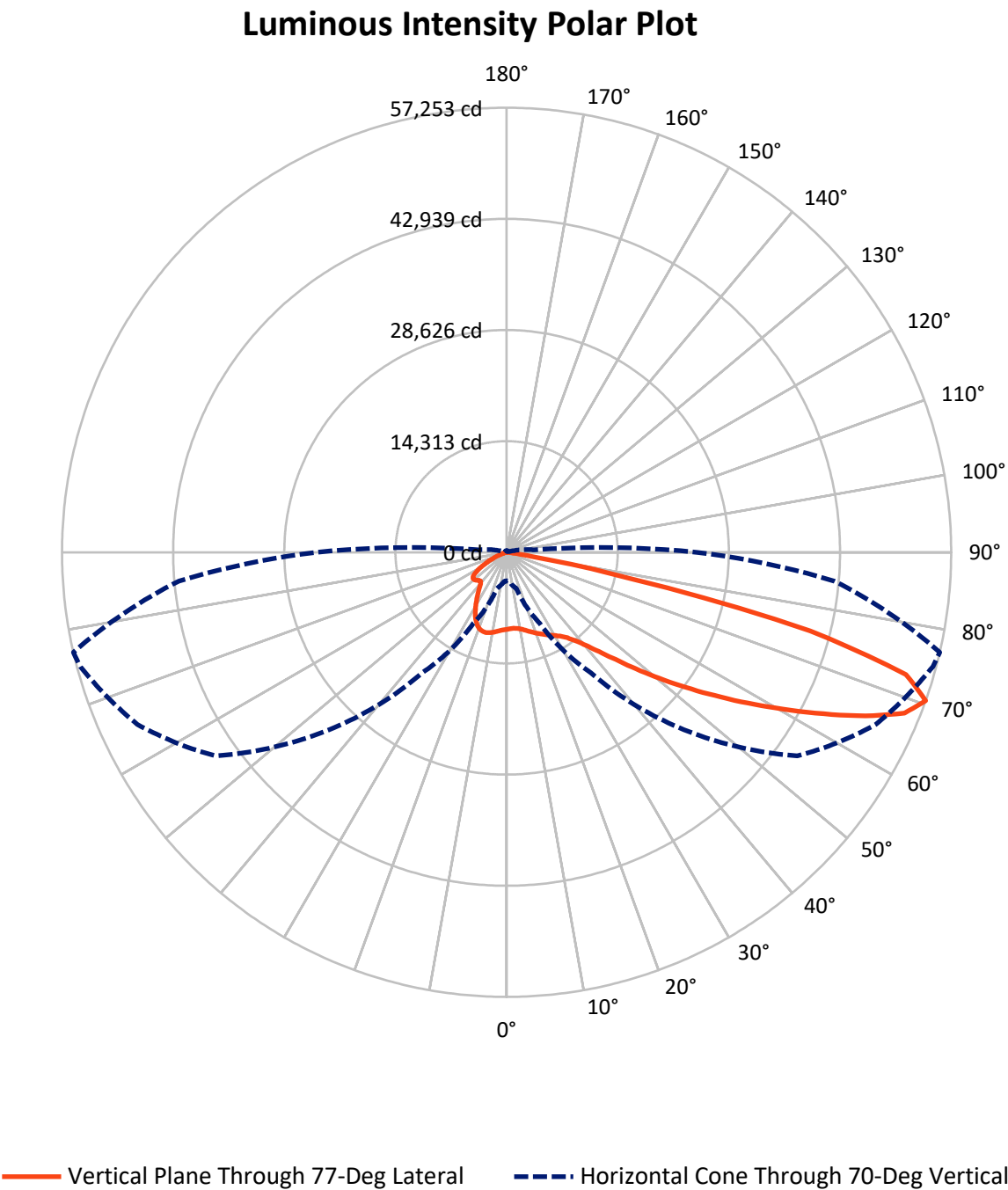
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P955935
CATALOG NUMBER: GALN-SB8D-727-U-T3R-HSS



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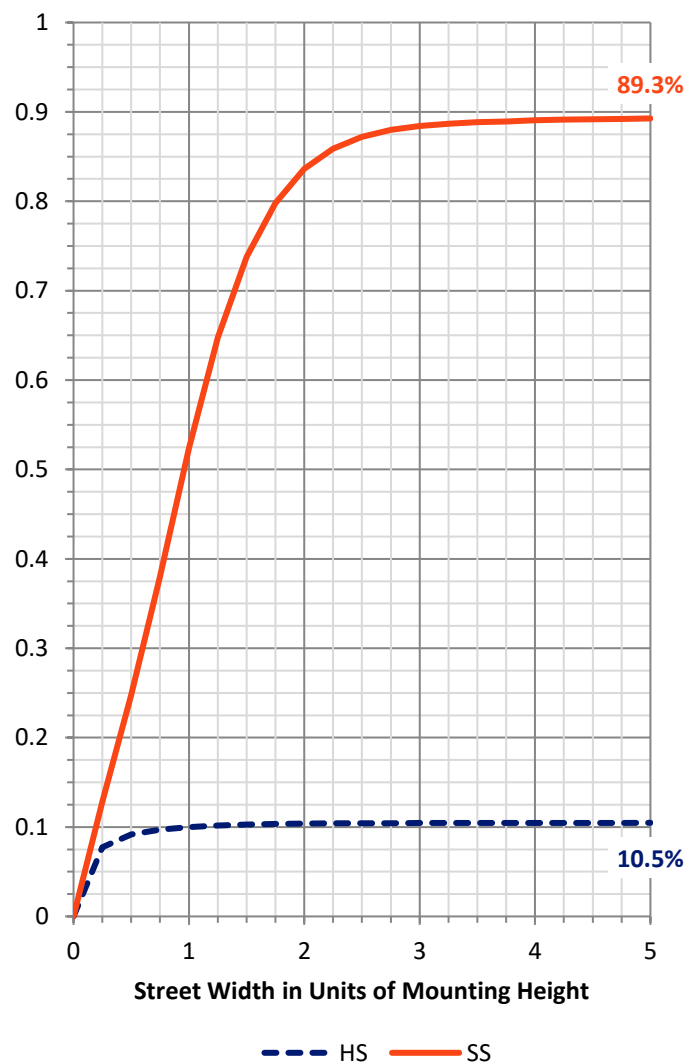
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6698.1	0.0	6698.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	56842.9	0.0	56842.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	63541.0	0.0	63541.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	854.2	1.3
10°-20°	2027.8	3.2
20°-30°	3136.4	4.9
30°-40°	5691.1	9.0
40°-50°	10742.7	16.9
50°-60°	15522.3	24.4
60°-70°	16523.0	26.0
70°-80°	8756.1	13.8
80°-90°	287.5	0.5
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°	63541.0	100.0
0°-180°	63541.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955935

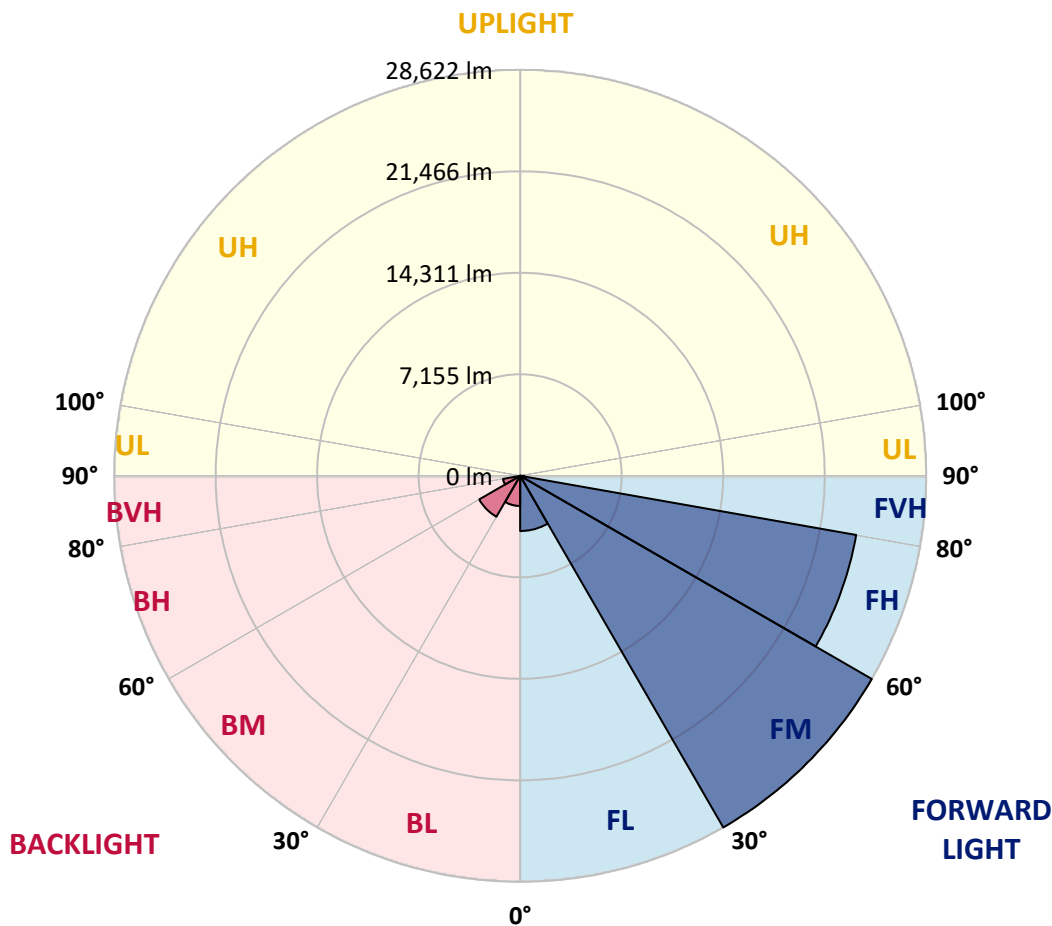
CATALOG NUMBER: GALN-SB8D-727-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3890.2	6.1			
FM	(30°-60°)	28621.7	45.0			
FH	(60°-80°)	24051.2	37.9			G5
FVH	(80°-90°)	279.8	0.4			G3/500
BL	(0°-30°)	2128.1	3.3	B3/2500		
BM	(30°-60°)	3334.4	5.2	B3/5000		
BH	(60°-80°)	1227.9	1.9	B3/2500		G3/2500
BVH	(80°-90°)	7.7	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-G5

Type III Medium



REPORT NUMBER: P955935

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	9911.2	9911.2	9911.2	9911.2	9911.2	9911.2	9911.2	9911.2	9911.2	9911.2	9911.2
2.5°	9305.3	9389.6	9377.6	9433.7	9453.8	9534.1	9614.3	9722.7	9843.0	9839.0	9919.3
5°	8779.7	8863.9	8884.0	8960.3	9056.6	9180.9	9345.5	9562.1	9786.9	9823.0	9983.5
7.5°	8157.7	8246.0	8298.2	8450.6	8627.2	8884.0	9152.9	9469.9	9843.0	9895.2	10204.2
10°	7535.8	7616.0	7684.2	7900.9	8181.8	8563.0	9000.4	9457.8	9959.4	10035.6	10473.0
12.5°	7150.5	7226.8	7303.0	7491.6	7840.7	8306.2	8900.1	9514.0	10152.0	10260.3	10838.2
15°	7014.1	7082.3	7142.5	7311.1	7636.1	8165.7	8880.0	9630.4	10396.8	10541.2	11279.6
17.5°	7034.2	7070.3	7110.4	7238.8	7555.8	8101.5	8916.1	9831.0	10685.7	10814.1	11721.0
20°	7150.5	7170.6	7174.6	7262.9	7543.8	8093.5	8988.3	10023.6	10958.6	11131.1	12158.3
22.5°	7299.0	7307.0	7299.0	7359.2	7620.0	8153.7	9084.6	10256.3	11263.5	11424.0	12599.7
25°	7993.2	7840.7	7648.1	7531.7	7748.4	8270.1	9229.1	10569.3	11596.6	11753.1	13029.1
27.5°	10148.0	9710.6	9020.4	8246.0	8013.3	8438.6	9429.7	10886.3	11933.6	12074.1	13490.5
30°	13647.0	13073.2	11901.5	10156.0	8863.9	8791.7	9690.6	11203.3	12290.8	12443.2	13984.1
32.5°	17154.1	17013.6	15661.4	13245.8	10778.0	9578.2	10123.9	11632.7	12764.2	12884.6	14650.2
35°	20701.3	20416.4	19308.9	16921.4	13727.3	11179.2	10846.2	12194.4	13386.2	13522.6	15621.3
37.5°	23417.8	23245.3	22559.1	20592.9	17226.3	13651.0	12082.1	13065.2	14289.1	14441.5	16865.2
40°	25817.4	25737.1	25504.4	24208.3	21138.6	16885.2	14004.2	14413.4	15541.0	15721.6	18390.0
42.5°	27703.3	27891.9	28024.4	27663.2	25171.4	20576.9	16588.3	16307.4	17286.5	17471.1	20332.1
45°	29633.4	29697.6	30231.3	30753.0	29176.0	24437.0	19501.5	18526.4	19457.3	19686.1	22659.4
47.5°	30873.3	31130.1	32069.1	32988.0	32542.6	28265.1	22631.4	21146.7	21973.3	22402.6	25267.7
50°	30965.6	31451.2	32743.2	34344.3	34994.3	31908.6	26034.1	24132.1	25010.9	25484.3	28052.4
52.5°	29428.8	30183.2	32185.5	34528.9	36318.5	34994.3	29553.2	27117.5	28245.1	28863.0	30941.6
55°	22563.1	23550.2	30086.9	33525.7	36370.7	37333.7	32980.0	30227.3	31848.4	32546.6	34063.4
57.5°	19658.0	20155.5	23654.6	31784.2	35403.6	38276.7	36077.7	33188.6	35768.8	36635.5	37012.7
60°	16355.6	17009.6	19838.5	28935.2	34091.5	38369.0	38814.4	37008.7	40018.2	40993.2	39717.2
62.5°	11115.0	11825.3	14638.2	24039.8	32297.8	38324.8	41057.4	40941.1	44741.1	45788.4	42008.4
65°	6885.7	7331.1	9185.0	19629.9	29789.9	38373.0	43404.8	45716.1	49724.8	50788.1	43782.0
67.5°	5441.2	5645.8	6612.8	15071.5	25468.3	37289.6	45748.2	50206.3	54415.6	55258.2	44323.7
70°	3655.5	3779.9	4811.2	10103.9	18947.7	32289.8	45704.1	52461.4	56831.2	57252.5	42349.5
72.5°	1926.1	2022.4	2812.9	4678.8	11444.1	22952.4	38525.5	49764.9	54427.6	53793.6	36198.1
75°	963.0	1123.5	1894.0	2375.5	4887.4	12800.4	23923.4	39235.7	42839.1	40383.3	23225.2
77.5°	730.3	882.8	1564.9	1564.9	1701.4	4309.6	10131.9	21399.5	19738.2	16435.8	6817.5
80°	465.5	601.9	1368.3	1183.7	710.2	1095.5	2640.3	5994.9	4193.2	3190.1	1239.9
82.5°	272.9	393.2	1139.6	782.5	397.3	405.3	746.4	1276.0	1087.4	846.7	381.2
85°	108.3	256.8	782.5	309.0	156.5	100.3	224.7	272.9	224.7	168.5	96.3
87.5°	0.0	60.2	136.4	0.0	12.0	8.0	16.1	20.1	20.1	16.1	32.1
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: P955935

CATALOG NUMBER: GALN-SB8D-727-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9911.2	9911.2	9911.2	9911.2	9911.2	9911.2	9911.2	9911.2	9911.2	9911.2	9911.2
2.5°	9955.4	9963.4	9987.5	9991.5	9935.3	9863.1	9835.0	9823.0	9774.8	9770.8	9778.8
5°	10075.8	10111.9	10075.8	9971.4	9722.7	9373.6	9108.7	8892.0	8695.4	8635.2	8599.1
7.5°	10316.5	10352.6	10244.3	9835.0	9209.0	8514.8	7888.9	7447.5	7050.2	6901.8	6841.6
10°	10661.6	10709.8	10368.7	9542.1	8434.6	7319.1	6259.7	5513.4	4931.5	4694.8	4594.5
12.5°	11095.0	11115.0	10436.9	9096.7	7427.4	5834.4	4333.7	3535.1	3017.5	2824.9	2764.7
15°	11572.5	11544.4	10444.9	8490.8	6055.1	4125.0	2828.9	2323.3	2114.7	2050.5	2050.5
17.5°	12074.1	11957.7	10284.4	7616.0	4550.3	2820.9	2098.6	1978.2	1942.1	1926.1	1922.1
20°	12567.6	12306.8	9991.5	6472.4	3266.3	2106.6	1906.0	1869.9	1849.8	1841.8	1833.8
22.5°	13017.0	12571.6	9489.9	5144.2	2371.5	1861.9	1801.7	1769.6	1733.5	1717.4	1713.4
25°	13454.4	12724.1	8783.7	3904.3	1898.0	1741.5	1693.3	1633.1	1585.0	1564.9	1556.9
27.5°	13879.8	12820.4	7900.9	2889.1	1693.3	1629.1	1540.9	1456.6	1420.5	1412.5	1404.4
30°	14333.2	12852.5	6897.7	2154.8	1568.9	1488.7	1360.3	1264.0	1243.9	1247.9	1247.9
32.5°	14886.9	12900.7	5886.6	1765.6	1464.6	1320.2	1167.7	1067.4	1051.3	1067.4	1063.4
35°	15549.0	12997.0	4911.5	1625.1	1372.3	1147.6	983.1	898.8	882.8	894.8	890.8
37.5°	16447.9	13153.5	4000.6	1597.0	1296.1	1003.2	826.6	758.4	758.4	762.4	758.4
40°	17643.6	13570.8	3186.0	1577.0	1256.0	894.8	698.2	670.1	682.2	690.2	690.2
42.5°	19100.2	14457.6	2636.3	1552.9	1211.8	846.7	634.0	622.0	642.0	650.0	650.0
45°	20733.4	15581.1	2443.7	1512.8	1171.7	878.8	605.9	589.9	613.9	617.9	622.0
47.5°	22422.7	16680.6	2419.6	1468.6	1131.6	926.9	597.9	561.8	589.9	593.9	597.9
50°	24132.1	17398.9	2443.7	1400.4	1067.4	926.9	601.9	533.7	557.8	569.8	573.8
52.5°	25853.5	17727.9	2427.7	1251.9	955.0	870.7	601.9	509.6	533.7	541.7	541.7
55°	27522.8	17663.7	2182.9	1031.3	810.6	770.4	585.8	489.5	505.6	509.6	509.6
57.5°	28842.9	16768.9	1729.5	802.5	658.1	642.0	533.7	465.5	477.5	473.5	473.5
60°	29533.1	14802.7	1235.9	617.9	517.6	505.6	469.5	433.4	441.4	421.3	417.3
62.5°	29541.1	12202.5	826.6	489.5	413.3	401.3	401.3	389.2	381.2	341.1	329.0
65°	28911.2	9317.4	549.7	389.2	333.1	313.0	337.1	333.1	305.0	248.8	240.8
67.5°	27482.6	6107.3	417.3	305.0	256.8	244.8	268.8	280.9	260.8	208.7	204.6
70°	24545.4	3555.2	345.1	236.7	192.6	180.6	216.7	240.8	216.7	168.5	160.5
72.5°	20388.3	1918.0	280.9	176.6	132.4	120.4	172.5	196.6	172.5	124.4	120.4
75°	13229.7	1027.2	216.7	116.4	68.2	76.2	128.4	144.5	120.4	80.3	72.2
77.5°	4442.0	453.4	136.4	56.2	32.1	32.1	76.2	88.3	56.2	28.1	24.1
80°	991.1	188.6	56.2	24.1	12.0	12.0	16.1	16.1	8.0	0.0	0.0
82.5°	325.0	76.2	24.1	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	124.4	28.1	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	48.2	4.0	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

(END OF REPORT)