

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: P942648

Luminaire Tested: **GALN-SB6D-730-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46722 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 440.1
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

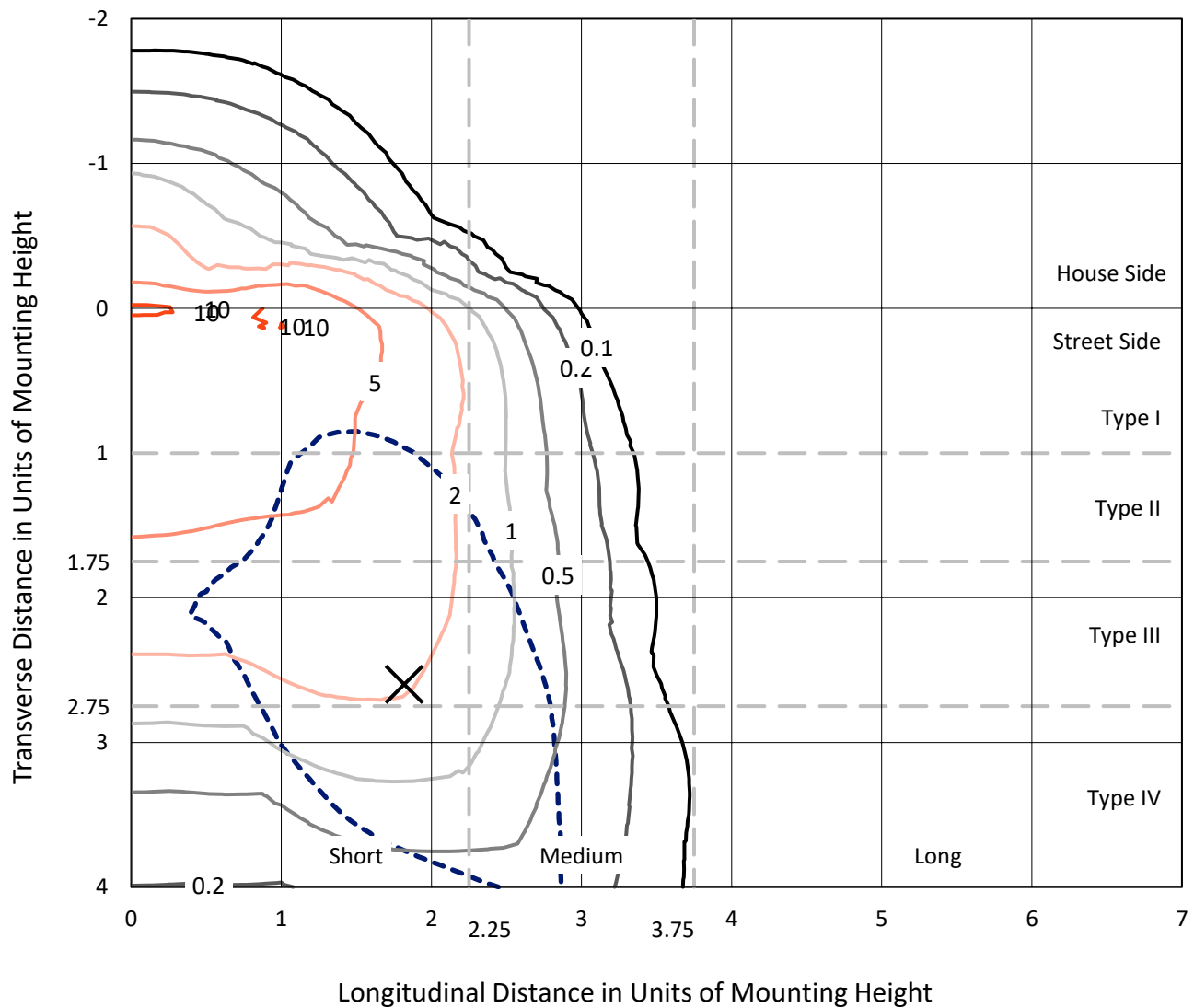


REPORT NUMBER: P942648

CATALOG NUMBER: GALN-SB6D-730-U-T4FT-HSS

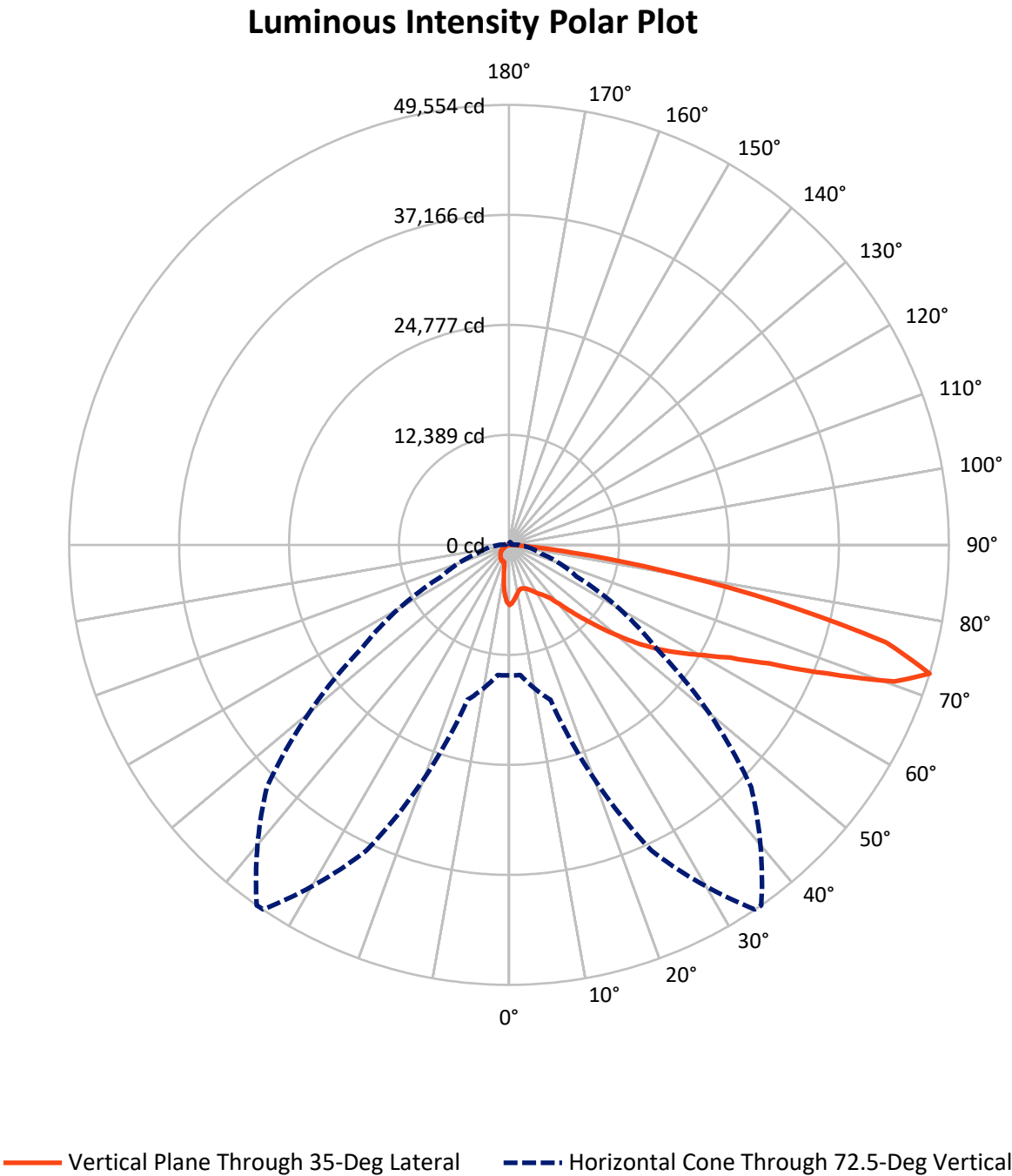
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
Type IV - Short - N/A

REPORT NUMBER: P942648
CATALOG NUMBER: GALN-SB6D-730-U-T4FT-HSS



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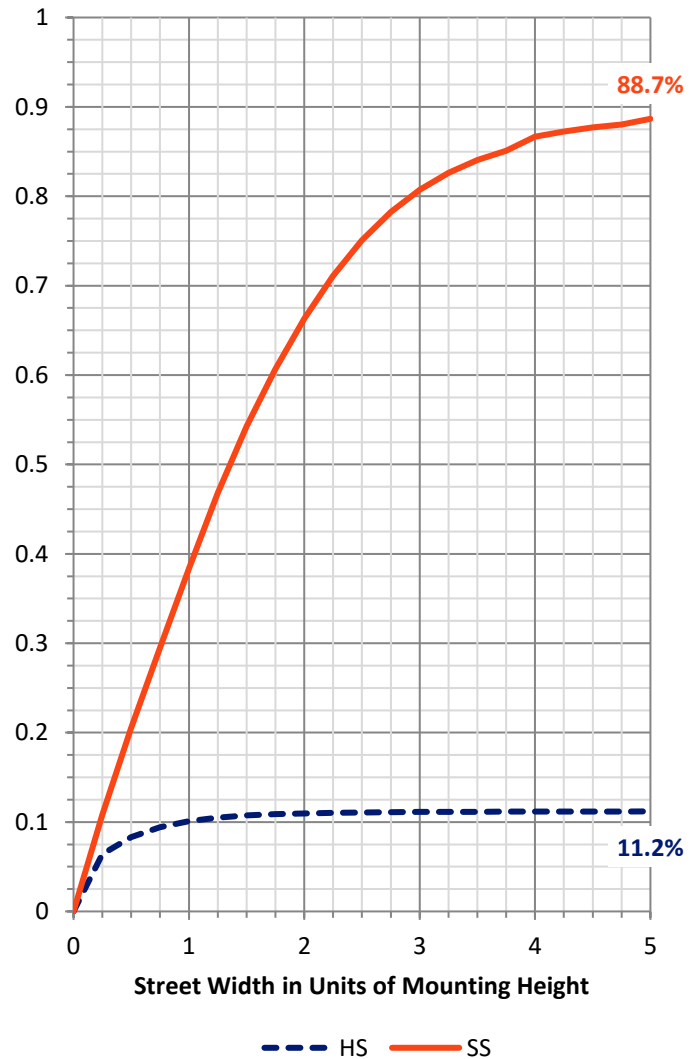
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5258.3	0.0	5258.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	41463.7	0.0	41463.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	46722.0	0.0	46722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.4	1.2
10°-20°	1301.7	2.8
20°-30°	2114.6	4.5
30°-40°	3528.2	7.6
40°-50°	6675.5	14.3
50°-60°	10607.4	22.7
60°-70°	13122.1	28.1
70°-80°	8156.8	17.5
80°-90°	659.2	1.4
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°	46722.0	100.0
0°-180°	46722.0	100.0

Coefficient of Utilization



REPORT NUMBER: P942648

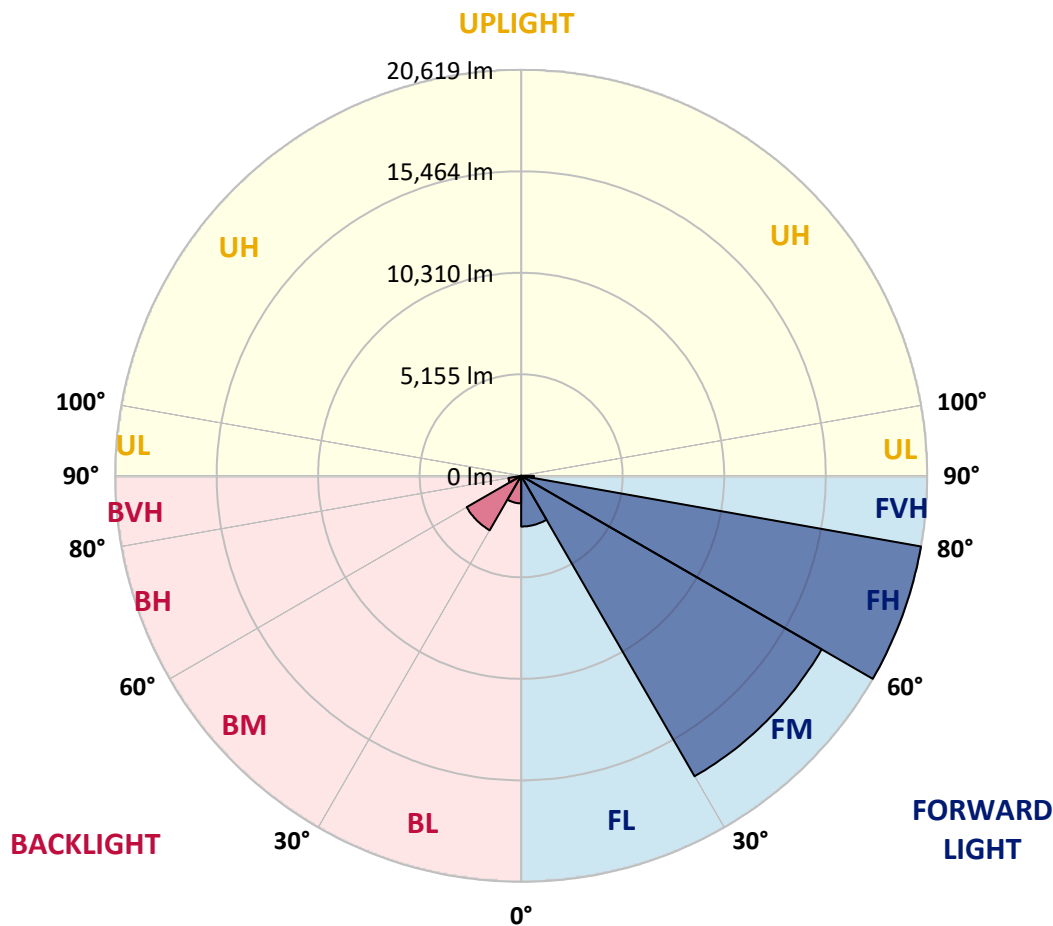
CATALOG NUMBER: GALN-SB6D-730-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2575.6	5.5			
FM	(30°-60°)	17618.9	37.7			
FH	(60°-80°)	20619.0	44.1			G5
FVH	(80°-90°)	650.2	1.4			G4/750
BL	(0°-30°)	1397.2	3.0	B3/2500		
BM	(30°-60°)	3192.3	6.8	B3/5000		
BH	(60°-80°)	659.8	1.4	B2/1000		G2/1000
BVH	(80°-90°)	9.0	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 IV Short



REPORT NUMBER: P942648

CATALOG NUMBER: GALN-SB6D-730-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6771.6	6771.6	6771.6	6771.6	6771.6	6771.6	6771.6	6771.6	6771.6	6771.6	6771.6
2.5°	6470.3	6525.1	6535.4	6552.5	6552.5	6573.0	6607.3	6655.2	6733.9	6775.0	6802.4
5°	5963.7	6004.7	6056.1	6097.2	6175.9	6186.2	6319.7	6449.8	6631.2	6768.2	6864.0
7.5°	5453.6	5501.5	5570.0	5669.2	5771.9	5802.7	6004.7	6223.8	6511.4	6768.2	6929.1
10°	5094.1	5097.5	5159.1	5258.4	5422.7	5460.4	5706.9	6018.4	6377.9	6727.1	6990.7
12.5°	4892.1	4916.1	4943.5	5018.8	5176.3	5200.2	5463.8	5830.1	6244.4	6703.1	7062.6
15°	4892.1	4909.2	4926.3	4964.0	5090.7	5111.2	5344.0	5710.3	6175.9	6713.4	7179.0
17.5°	4943.5	4970.8	4957.2	5001.7	5135.2	5148.9	5354.3	5676.1	6172.5	6778.4	7357.0
20°	5066.7	5087.2	5059.9	5087.2	5220.8	5248.1	5460.4	5741.1	6230.7	6891.4	7579.5
22.5°	5261.8	5272.1	5207.1	5227.6	5364.5	5398.8	5645.3	5926.0	6371.0	7072.8	7877.4
25°	5508.3	5528.9	5429.6	5453.6	5583.6	5624.7	5908.9	6203.3	6593.6	7322.8	8257.4
27.5°	5792.5	5802.7	5717.2	5713.7	5881.5	5939.7	6227.3	6545.6	6891.4	7637.7	8736.6
30°	6117.7	6148.5	6066.4	6052.7	6264.9	6312.8	6597.0	6966.7	7329.6	8110.2	9417.9
32.5°	6374.5	6398.4	6350.5	6384.7	6600.4	6638.1	7045.5	7562.4	8017.7	8781.1	10345.7
35°	6744.2	6757.9	6648.3	6710.0	6956.5	7052.3	7658.3	8397.7	8883.9	9623.3	11557.6
37.5°	8082.8	8082.8	7617.2	7312.5	7548.7	7634.3	8497.0	9448.7	9952.0	10753.1	13084.4
40°	9934.9	9904.0	9222.8	8599.7	8568.9	8736.6	9691.8	10773.6	11331.6	12108.7	14803.0
42.5°	11910.2	11862.3	10934.5	10318.3	10215.6	10273.8	11071.4	12406.6	12974.9	13762.3	16651.7
45°	13663.0	13649.3	12800.3	11971.8	11786.9	11971.8	12793.4	14316.9	14724.3	15552.7	18496.9
47.5°	15131.6	15131.6	14512.0	13971.1	13875.2	13984.8	15124.8	16436.0	16398.3	17459.6	20294.2
50°	16822.8	16809.1	16220.3	15987.5	16086.8	16240.8	17808.8	18668.1	18130.6	19332.2	21899.8
52.5°	18007.3	18089.5	17887.5	17849.9	18356.5	18623.6	20533.9	20852.2	19681.4	21109.0	23101.4
55°	18945.4	19041.2	19274.0	19537.6	20513.3	20862.5	23173.3	22923.4	20978.9	22649.5	23793.0
57.5°	20273.7	20136.7	20496.2	21016.6	22594.8	23015.9	25730.7	24878.2	22023.1	23899.1	23868.3
60°	21886.1	21906.7	21968.3	22625.6	24672.8	25213.7	28250.3	26726.9	22694.1	24666.0	23033.0
62.5°	23823.8	23854.6	23981.3	24991.2	27462.9	27973.0	30934.3	28240.0	23002.2	24450.3	20876.2
65°	23690.3	23820.4	25234.3	28688.5	31704.6	32207.8	34066.8	29301.3	22536.6	22478.4	16997.4
67.5°	21581.4	21793.7	24159.3	33104.8	38099.6	38661.0	37853.1	29510.1	20527.0	17480.1	11088.6
70°	18815.3	18890.6	21735.5	37076.0	45504.5	46072.8	41242.3	27213.0	15576.7	9750.0	4967.4
72.5°	14693.4	14710.6	18048.4	37996.9	49523.6	49554.4	38582.3	20201.8	8377.2	3745.3	1725.4
75°	10496.3	10393.6	12088.2	30814.5	43570.2	43919.4	28924.7	9476.1	3200.9	1769.9	859.3
77.5°	5628.2	5741.1	6840.1	18274.4	30099.0	30694.7	15782.1	2731.9	1629.6	1205.1	568.3
80°	1739.1	1835.0	2803.8	8366.9	17048.8	17408.2	5850.7	1215.3	1136.6	859.3	373.2
82.5°	547.8	568.3	1307.8	3515.9	7076.3	7240.6	1694.6	688.1	777.1	568.3	219.1
85°	157.5	160.9	582.0	1311.2	1749.4	1783.6	475.9	267.0	445.0	352.6	113.0
87.5°	17.1	54.8	219.1	219.1	154.1	150.6	51.4	58.2	126.7	44.5	20.5
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: P942648

CATALOG NUMBER: GALN-SB6D-730-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6771.6	6771.6	6771.6	6771.6	6771.6	6771.6	6771.6	6771.6	6771.6	6771.6	6771.6
2.5°	6785.3	6788.7	6744.2	6668.9	6586.7	6518.2	6432.7	6364.2	6316.3	6302.6	6326.5
5°	6833.2	6809.2	6682.6	6453.2	6179.3	5943.1	5679.5	5470.7	5333.7	5275.5	5296.1
7.5°	6905.1	6836.6	6559.3	6107.4	5583.6	5118.1	4645.6	4279.3	4046.5	3930.1	3947.2
10°	6966.7	6829.8	6353.9	5607.6	4806.5	4101.3	3464.5	3022.9	2776.4	2660.0	2663.4
12.5°	7024.9	6826.4	6086.9	5015.4	3930.1	3067.4	2475.2	2256.1	2187.6	2163.6	2156.8
15°	7134.5	6836.6	5751.4	4337.5	3057.1	2317.7	2102.0	2098.6	2112.3	2105.4	2102.0
17.5°	7285.1	6846.9	5371.4	3618.6	2358.8	2043.8	2033.5	2064.3	2084.9	2074.6	2071.2
20°	7480.2	6888.0	4967.4	2906.5	2026.7	1975.3	1999.3	2026.7	2043.8	2026.7	2023.3
22.5°	7754.1	6959.9	4525.8	2334.8	1920.6	1934.2	1954.8	1985.6	2002.7	1978.8	1975.3
25°	8089.6	7072.8	4091.0	2030.1	1869.2	1886.3	1917.1	1951.4	1971.9	1947.9	1944.5
27.5°	8524.4	7254.3	3690.5	1961.6	1817.9	1828.1	1872.6	1924.0	1951.4	1920.6	1920.6
30°	9154.3	7552.1	3344.7	1992.4	1787.0	1763.1	1824.7	1896.6	1927.4	1900.0	1896.6
32.5°	9989.6	7973.2	3132.5	2040.4	1773.3	1687.8	1746.0	1838.4	1889.7	1872.6	1872.6
35°	11085.1	8613.4	3050.3	2095.2	1763.1	1609.0	1650.1	1749.4	1838.4	1855.5	1855.5
37.5°	12413.4	9503.5	3074.3	2119.1	1732.3	1544.0	1564.5	1650.1	1766.5	1821.3	1835.0
40°	13923.2	10540.8	3211.2	2095.2	1698.0	1489.2	1492.6	1557.7	1660.4	1742.5	1769.9
42.5°	15480.8	11752.7	3464.5	2006.1	1667.2	1441.3	1431.0	1475.5	1544.0	1602.2	1626.1
45°	16963.2	12998.8	3714.4	1882.9	1629.6	1393.3	1369.4	1386.5	1400.2	1424.2	1437.8
47.5°	18257.3	13875.2	3642.6	1769.9	1578.2	1338.6	1297.5	1290.6	1249.6	1246.1	1242.7
50°	19150.8	14067.0	3235.2	1656.9	1502.9	1276.9	1211.9	1170.8	1098.9	1064.7	1068.1
52.5°	19434.9	13310.4	2642.9	1544.0	1379.7	1194.8	1102.4	1037.3	948.3	917.5	914.1
55°	19058.3	11828.0	2112.3	1407.0	1208.5	1085.2	982.5	896.9	825.1	787.4	787.4
57.5°	18137.4	9941.7	1670.6	1246.1	1027.0	962.0	859.3	773.7	712.1	674.4	667.6
60°	16610.6	7894.5	1321.5	1054.4	876.4	828.5	722.3	667.6	612.8	568.3	558.0
62.5°	14292.9	5635.0	1037.3	835.3	732.6	677.8	616.2	575.1	510.1	448.5	438.2
65°	11153.6	3447.4	801.1	612.8	588.8	561.4	523.8	486.1	407.4	345.8	335.5
67.5°	7035.2	1633.0	571.7	462.2	465.6	451.9	434.8	404.0	345.8	291.0	284.1
70°	3098.2	790.8	376.6	352.6	345.8	345.8	359.5	349.2	294.4	243.1	232.8
72.5°	1054.4	424.5	280.7	267.0	249.9	246.5	301.3	291.0	236.2	188.3	178.0
75°	551.2	284.1	205.4	191.7	150.6	181.4	239.6	225.9	167.7	123.2	113.0
77.5°	359.5	202.0	140.4	123.2	85.6	119.8	178.0	157.5	99.3	61.6	54.8
80°	225.9	133.5	82.2	58.2	41.1	65.0	95.9	68.5	37.7	13.7	10.3
82.5°	119.8	68.5	30.8	20.5	17.1	20.5	24.0	17.1	6.8	0.0	0.0
85°	47.9	24.0	10.3	6.8	3.4	0.0	6.8	3.4	0.0	0.0	0.0
87.5°	17.1	3.4	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)