

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: P528706

Luminaire Tested: **GALN-SA3D-740-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-740-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17199 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

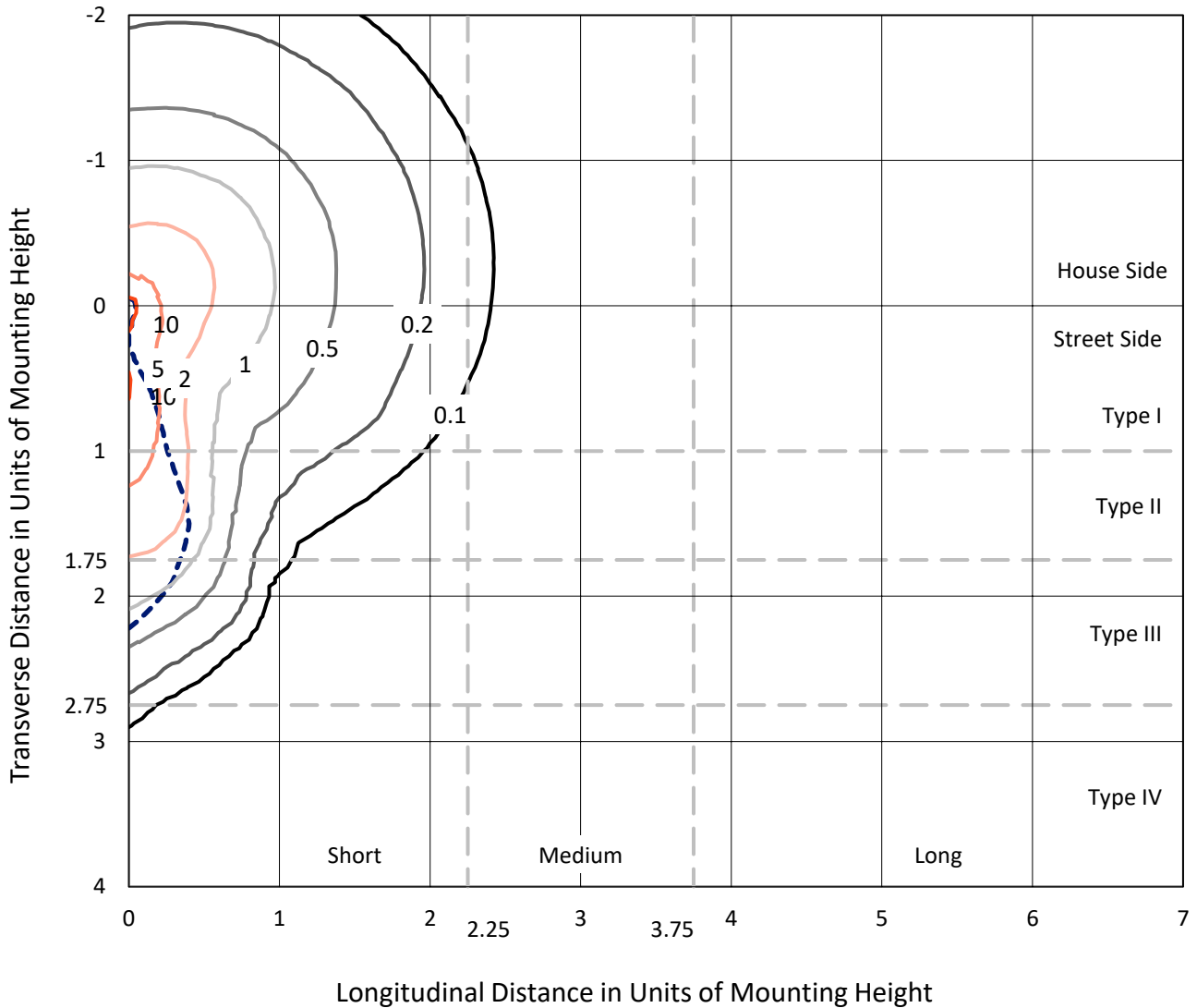
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

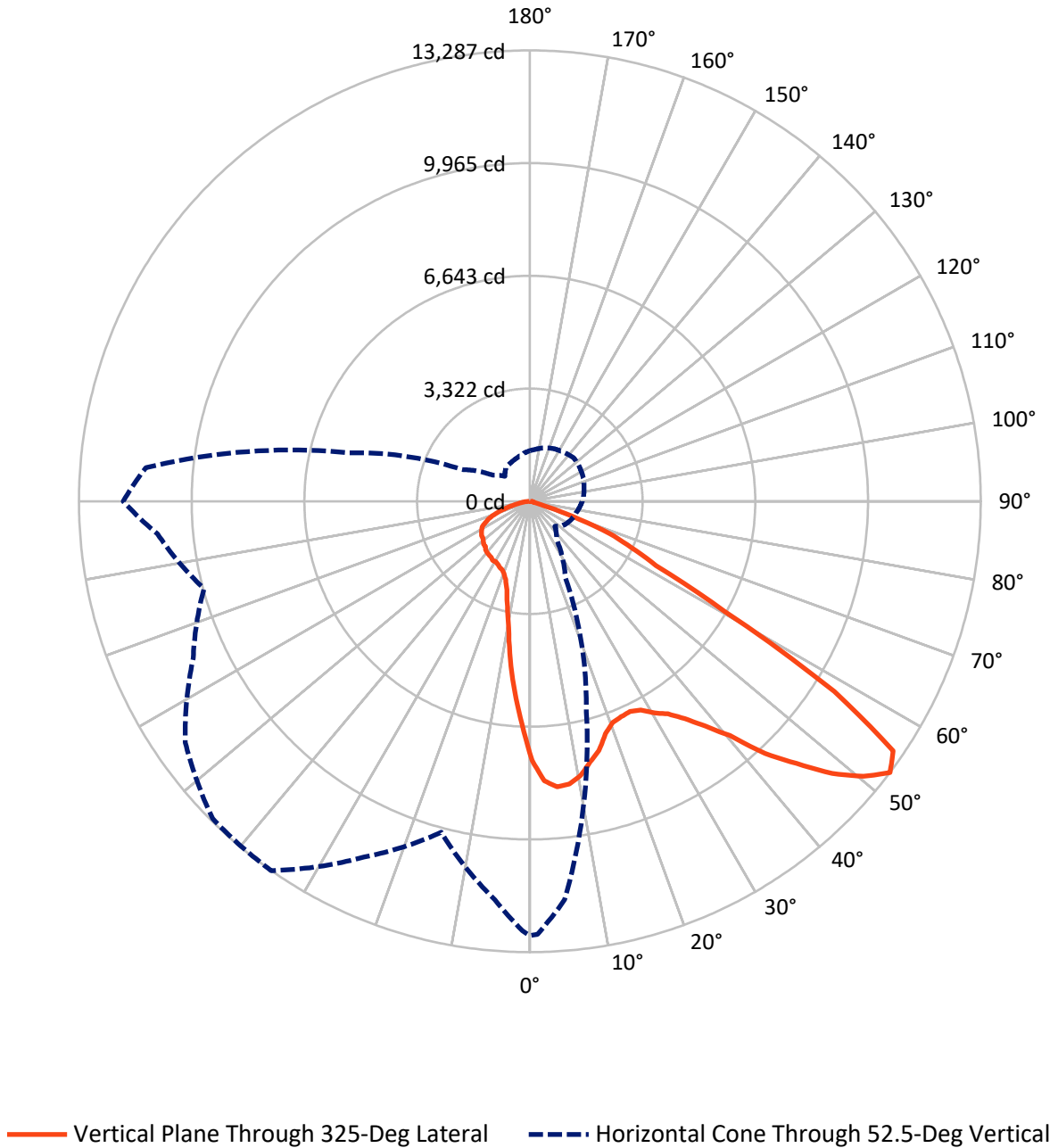
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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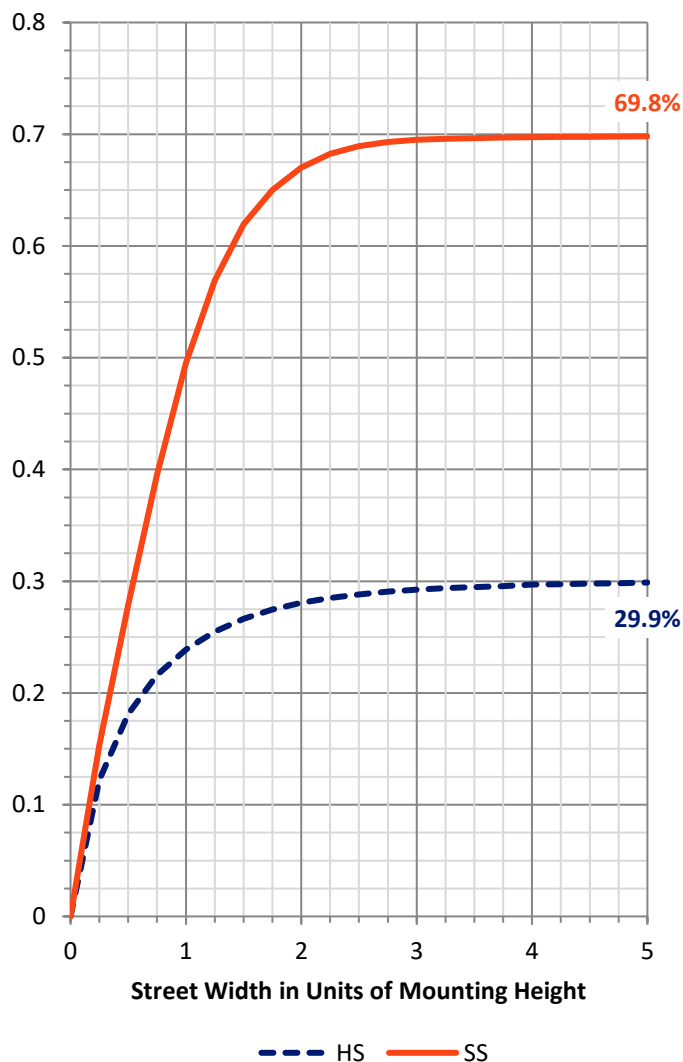
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5184.8	0.0	5184.8
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	12014.2	0.0	12014.2
	% Fixture	69.9	0.0	69.9
Total	Lumens	17199.0	0.0	17199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.3	3.4
10°-20°	1262.4	7.3
20°-30°	1907.4	11.1
30°-40°	2756.3	16.0
40°-50°	3668.1	21.3
50°-60°	4102.9	23.9
60°-70°	2312.4	13.4
70°-80°	515.5	3.0
80°-90°	91.8	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°	17199.0	100.0
0°-180°	17199.0	100.0

Coefficient of Utilization

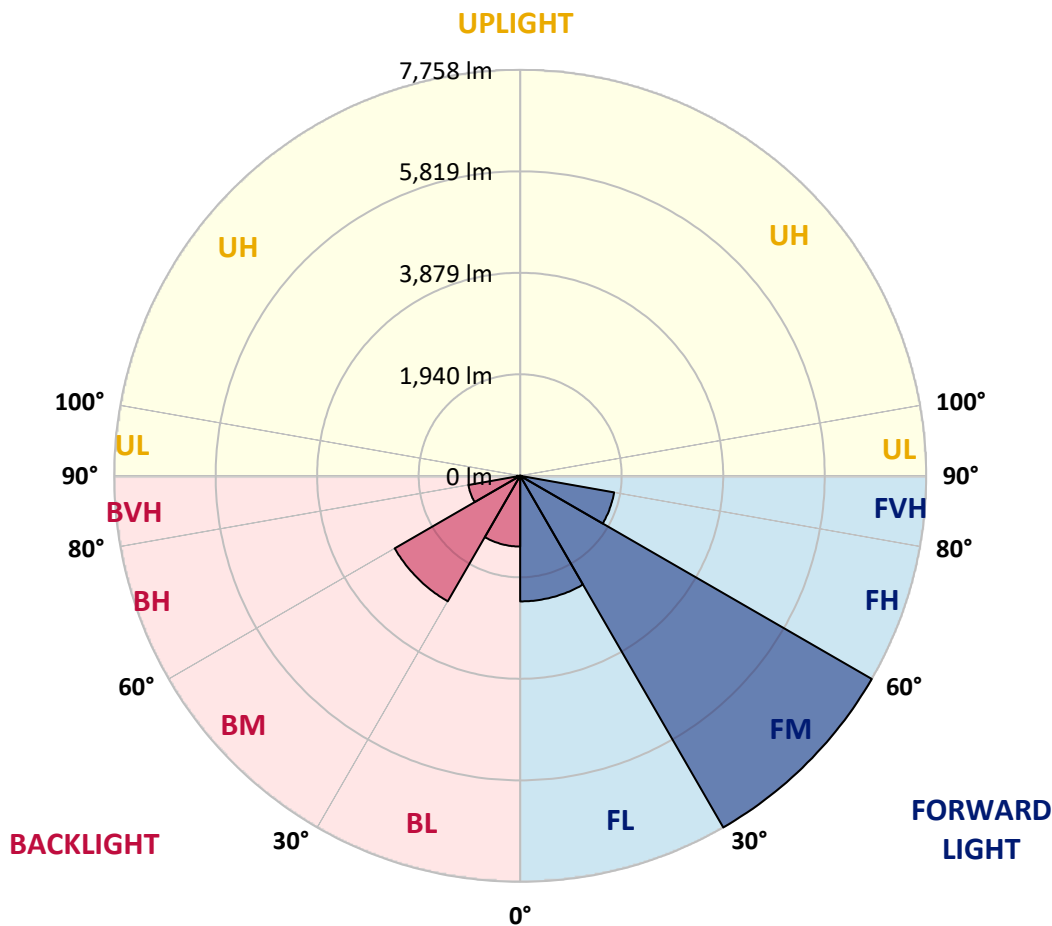


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2400.1	14.0			
FM (30°-60°)	7758.1	45.1			
FH (60°-80°)	1822.8	10.6			G2/5000
FVH (80°-90°)	33.2	0.2			G1/100
BL (0°-30°)	1352.1	7.9	B3/2500		
BM (30°-60°)	2769.2	16.1	B3/5000		
BH (60°-80°)	1005.0	5.8	B3/2500		G3/2500
BVH (80°-90°)	58.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0
2.5°	7760.2	7884.8	7750.2	7510.9	7341.4	7186.8	7024.8	6992.4	6780.5	6743.1	6588.5
5°	7318.9	7291.5	7127.0	6812.9	6466.4	6152.3	5920.5	5696.1	5544.0	5367.0	5354.6
7.5°	6783.0	6623.4	6528.7	6052.6	5623.8	5130.2	4918.3	4576.8	4469.6	4310.1	4227.8
10°	6304.3	6187.2	5965.3	5489.2	4890.9	4564.4	4337.5	4153.0	4028.4	3863.9	3657.0
12.5°	6067.5	6020.2	5770.9	5033.0	4589.3	4240.3	4080.8	3901.3	3689.4	3425.1	3322.9
15°	6109.9	5950.4	5760.9	4945.8	4332.5	3996.0	3741.7	3517.4	3245.7	2993.9	2846.8
17.5°	6426.5	6304.3	5925.4	5000.6	4235.3	3749.2	3288.0	2956.5	2712.2	2485.3	2383.1
20°	7049.7	6872.7	6446.4	5070.4	4025.9	3405.2	2876.7	2467.9	2206.1	2086.5	2051.6
22.5°	7740.2	7635.5	6955.0	5227.4	3858.9	3086.1	2440.5	2031.7	1934.4	1902.0	1966.8
25°	8580.3	8308.6	7745.2	5484.2	3729.3	2814.4	2071.5	1844.7	1794.8	1827.2	1902.0
27.5°	9218.5	9146.2	8298.6	5726.0	3552.3	2487.8	1864.6	1715.1	1730.0	1762.4	1832.2
30°	9976.3	9609.8	8834.6	5893.0	3392.7	2263.5	1720.0	1680.2	1695.1	1750.0	1784.9
32.5°	10432.5	10295.4	9171.1	6144.8	3208.3	2069.0	1607.9	1570.5	1592.9	1675.2	1757.4
35°	11013.3	10741.6	9587.4	6209.6	3078.6	1991.8	1528.1	1500.7	1553.0	1610.4	1702.6
37.5°	11691.3	11504.4	10163.2	6164.7	3008.8	1912.0	1460.8	1448.3	1485.7	1565.5	1672.7
40°	12092.7	12035.3	10464.9	6192.2	2899.2	1842.2	1383.5	1398.5	1475.8	1538.1	1642.8
42.5°	12479.1	12105.1	10911.1	6182.2	2829.4	1747.5	1391.0	1373.5	1433.4	1505.7	1605.4
45°	12563.8	12192.4	11015.8	6112.4	2744.6	1655.2	1333.7	1341.1	1413.4	1503.2	1568.0
47.5°	12509.0	12234.8	11210.2	6092.5	2664.8	1590.4	1248.9	1338.6	1381.0	1453.3	1545.5
50°	12471.6	12456.6	11374.7	6187.2	2557.6	1488.2	1146.7	1306.2	1348.6	1420.9	1520.6
52.5°	12800.6	12768.2	11786.1	6436.5	2472.9	1378.5	1042.0	1224.0	1326.2	1396.0	1493.2
55°	13000.1	12858.0	12491.5	6743.1	2330.8	1233.9	969.7	1121.8	1271.3	1333.7	1433.4
57.5°	11693.8	11596.6	11300.0	6294.4	2091.5	1044.5	880.0	1017.1	1196.6	1293.8	1396.0
60°	9729.5	9577.4	8817.1	5349.6	1543.1	812.7	825.1	934.8	1176.6	1214.0	1333.7
62.5°	9173.6	8797.2	7762.6	4305.1	1184.1	698.0	740.4	860.0	1071.9	1134.2	1253.9
65°	7279.0	6999.8	5554.0	3108.5	792.7	605.8	675.6	775.3	924.8	1047.0	1156.7
67.5°	4556.9	4290.1	2964.0	1470.8	553.4	518.5	603.3	708.0	830.1	939.8	1061.9
70°	2380.6	2089.0	1368.6	531.0	381.4	423.8	503.6	603.3	722.9	812.7	907.4
72.5°	887.4	720.4	446.2	229.3	264.2	324.1	408.8	481.1	565.9	675.6	727.9
75°	137.1	117.2	114.7	139.6	179.5	234.3	291.7	364.0	438.7	508.5	543.4
77.5°	64.8	62.3	69.8	92.2	119.7	167.0	211.9	281.7	341.5	386.4	406.3
80°	42.4	39.9	44.9	62.3	89.7	124.6	169.5	216.9	271.7	309.1	304.1
82.5°	24.9	27.4	27.4	42.4	62.3	89.7	122.1	164.5	201.9	234.3	214.4
85°	15.0	12.5	12.5	24.9	42.4	72.3	102.2	69.8	72.3	72.3	82.3
87.5°	5.0	5.0	5.0	2.5	5.0	5.0	7.5	12.5	15.0	17.4	22.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0
2.5°	6583.5	6660.8	6633.4	6536.2	6611.0	6623.4	6573.6	6745.6	6778.0	6725.6	6740.6
5°	5337.1	5357.1	5401.9	5496.7	5564.0	5643.7	5643.7	5648.7	5581.4	5750.9	5701.1
7.5°	4158.0	4170.5	4222.8	4424.8	4482.1	4634.2	4699.0	4654.1	4519.5	4462.2	4509.5
10°	3589.7	3517.4	3499.9	3524.9	3654.5	3719.3	3774.1	3759.2	3736.7	3691.9	3642.0
12.5°	3210.8	3158.4	3116.0	3056.2	3063.7	3126.0	3168.4	3133.5	3143.4	3153.4	3168.4
15°	2799.4	2762.0	2739.6	2649.9	2639.9	2682.3	2697.2	2717.2	2754.6	2757.1	2739.6
17.5°	2363.2	2330.8	2380.6	2430.5	2395.6	2398.1	2425.5	2443.0	2433.0	2388.1	2365.7
20°	2064.1	2099.0	2148.8	2196.2	2233.6	2256.0	2266.0	2238.6	2206.1	2113.9	2111.4
22.5°	1976.8	2021.7	2064.1	2136.3	2171.2	2228.6	2176.2	2113.9	2069.0	2024.2	1971.8
25°	1912.0	1949.4	2034.1	2061.6	2128.9	2176.2	2138.8	2076.5	1999.2	1934.4	1894.5
27.5°	1864.6	1907.0	1961.9	2036.6	2089.0	2116.4	2079.0	2054.1	1974.3	1897.0	1839.7
30°	1834.7	1879.6	1979.3	2041.6	2086.5	2108.9	2044.1	2014.2	1956.9	1892.1	1842.2
32.5°	1814.8	1854.7	1939.4	2019.2	2049.1	2049.1	2059.1	2024.2	1944.4	1834.7	1792.3
35°	1750.0	1804.8	1874.6	1966.8	2021.7	2054.1	2004.2	1964.3	1912.0	1799.8	1722.5
37.5°	1712.6	1750.0	1839.7	1927.0	1974.3	2009.2	1989.3	1919.5	1849.7	1757.4	1695.1
40°	1672.7	1732.5	1812.3	1894.5	1946.9	1981.8	1966.8	1884.6	1799.8	1712.6	1670.2
42.5°	1645.3	1685.1	1767.4	1859.6	1922.0	1989.3	1944.4	1842.2	1782.4	1662.7	1615.3
45°	1622.8	1687.6	1774.9	1812.3	1877.1	1946.9	1867.1	1804.8	1735.0	1647.8	1607.9
47.5°	1595.4	1655.2	1712.6	1812.3	1842.2	1874.6	1859.6	1759.9	1700.1	1605.4	1578.0
50°	1585.4	1607.9	1712.6	1767.4	1809.8	1842.2	1802.3	1727.5	1670.2	1573.0	1513.1
52.5°	1545.5	1587.9	1655.2	1727.5	1779.9	1819.8	1754.9	1707.6	1630.3	1528.1	1490.7
55°	1495.7	1520.6	1640.3	1715.1	1742.5	1769.9	1745.0	1667.7	1587.9	1483.2	1445.8
57.5°	1430.9	1488.2	1585.4	1690.1	1725.0	1740.0	1700.1	1637.8	1538.1	1445.8	1386.0
60°	1363.6	1423.4	1530.6	1615.3	1650.2	1705.1	1645.3	1607.9	1493.2	1391.0	1326.2
62.5°	1296.3	1363.6	1443.3	1550.5	1580.4	1602.9	1587.9	1535.6	1443.3	1328.7	1248.9
65°	1216.5	1266.4	1366.1	1420.9	1440.9	1493.2	1440.9	1420.9	1338.6	1229.0	1161.7
67.5°	1096.8	1139.2	1226.5	1278.8	1293.8	1316.2	1313.7	1291.3	1199.0	1124.3	1064.4
70°	959.7	997.1	1052.0	1114.3	1121.8	1149.2	1124.3	1119.3	1059.4	957.2	924.8
72.5°	770.3	805.2	877.5	904.9	907.4	917.4	904.9	887.4	872.5	765.3	732.9
75°	590.8	610.7	645.6	670.6	670.6	683.0	675.6	658.1	618.2	550.9	518.5
77.5°	411.3	431.3	476.1	491.1	488.6	493.6	471.1	453.7	393.9	359.0	331.5
80°	299.1	311.6	334.0	344.0	346.5	354.0	326.6	311.6	276.7	236.8	224.4
82.5°	216.9	224.4	226.8	239.3	239.3	226.8	219.4	204.4	179.5	154.6	144.6
85°	89.7	92.2	94.7	109.7	112.2	134.6	124.6	117.2	102.2	87.2	79.8
87.5°	22.4	24.9	32.4	27.4	32.4	32.4	34.9	39.9	39.9	32.4	32.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0
2.5°	6797.9	6817.9	7072.1	7104.5	7229.2	7356.3	7613.1	7797.5	7947.1	8044.3	8071.8
5°	5753.4	5880.6	5997.7	6187.2	6359.2	6603.5	6885.2	7234.2	7672.9	7897.3	7987.0
7.5°	4504.5	4654.1	4823.6	5008.1	5259.9	5698.6	6075.0	6478.8	7039.7	7271.6	7623.1
10°	3676.9	3843.9	4068.3	4210.4	4514.5	4933.3	5372.0	5838.2	6374.1	6708.2	7114.5
12.5°	3250.6	3387.7	3594.6	3893.8	4120.6	4392.4	4718.9	5307.2	6075.0	6391.6	6670.8
15°	2779.5	2931.6	3170.9	3502.4	3774.1	4098.2	4464.6	5105.3	5922.9	6411.5	6648.4
17.5°	2390.6	2500.3	2752.1	3038.8	3350.4	3704.3	4230.3	5095.3	6082.5	6708.2	7094.6
20°	2121.4	2136.3	2273.5	2517.8	2941.5	3402.7	4085.7	5045.5	6593.5	7219.2	7707.8
22.5°	1951.9	1936.9	1939.4	2146.3	2443.0	3106.1	3858.9	5215.0	7174.3	8031.9	8360.9
25°	1867.1	1827.2	1802.3	1847.2	2116.4	2754.6	3686.9	5439.3	7800.0	8702.4	9106.3
27.5°	1822.3	1752.5	1702.6	1710.1	1907.0	2577.6	3579.7	5536.6	8420.8	9637.3	9779.3
30°	1804.8	1717.6	1645.3	1620.3	1750.0	2330.8	3350.4	5703.6	8976.7	10150.8	10272.9
32.5°	1742.5	1635.3	1565.5	1543.1	1595.4	2113.9	3185.8	5823.2	9467.7	10709.2	10666.8
35°	1670.2	1580.4	1493.2	1450.8	1488.2	1974.3	3053.7	5765.9	10046.1	11142.9	11120.5
37.5°	1662.7	1545.5	1473.3	1403.5	1401.0	1802.3	2874.2	5820.7	10415.0	11920.7	11614.1
40°	1597.9	1523.1	1428.4	1371.1	1338.6	1715.1	2699.7	5691.1	10956.0	12234.8	11933.1
42.5°	1600.4	1488.2	1406.0	1338.6	1306.2	1587.9	2580.1	5656.2	11145.4	12745.8	12082.7
45°	1560.5	1450.8	1381.0	1301.3	1283.8	1490.7	2465.4	5494.2	11479.4	12770.7	11895.7
47.5°	1520.6	1423.4	1348.6	1253.9	1214.0	1455.8	2375.7	5359.6	11304.9	12536.4	11636.5
50°	1493.2	1381.0	1311.2	1243.9	1131.7	1396.0	2258.5	5327.2	11060.7	12219.8	11155.4
52.5°	1445.8	1346.1	1273.8	1221.5	1042.0	1341.1	2213.6	5516.6	11359.8	11983.0	11015.8
55°	1401.0	1298.8	1206.5	1104.3	967.2	1196.6	2089.0	5693.6	11796.0	12528.9	11649.0
57.5°	1353.6	1256.4	1156.7	1034.5	894.9	1047.0	1959.4	5726.0	10978.4	11579.2	11058.2
60°	1291.3	1166.6	1091.9	932.3	817.6	867.5	1553.0	5048.0	8515.5	9669.7	9687.1
62.5°	1221.5	1086.9	1022.1	835.1	737.9	747.8	1266.4	4242.8	6907.6	8004.5	8480.6
65°	1129.2	999.6	922.3	772.8	680.5	648.1	927.3	3108.5	5247.4	6493.8	7034.7
67.5°	1009.6	887.4	790.2	673.1	608.2	555.9	633.2	1750.0	3098.6	4359.9	4524.5
70°	882.5	777.8	675.6	578.3	506.0	468.7	463.7	775.3	1480.7	2345.7	2669.8
72.5°	695.5	620.7	538.4	466.2	418.8	364.0	331.5	321.6	501.1	954.8	1318.7
75°	498.6	436.2	388.9	341.5	306.6	276.7	251.8	229.3	209.4	239.3	329.1
77.5°	314.1	291.7	254.3	241.8	221.9	214.4	204.4	191.9	177.0	167.0	167.0
80°	211.9	196.9	184.5	182.0	174.5	172.0	174.5	162.0	147.1	134.6	139.6
82.5°	142.1	139.6	137.1	134.6	137.1	139.6	144.6	142.1	129.6	122.1	124.6
85°	84.8	89.7	94.7	99.7	109.7	97.2	79.8	67.3	59.8	54.8	52.3
87.5°	32.4	44.9	39.9	37.4	39.9	37.4	34.9	32.4	27.4	24.9	24.9
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: P528706

CATALOG NUMBER: GALN-SA3D-740-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0
2.5°	8253.7	8303.6	8346.0	8336.0	8248.7	8131.6	8084.2	7842.4	7792.6	7760.2
5°	8365.9	8655.1	8717.4	8680.0	8453.2	8166.5	7887.3	7533.3	7326.4	7318.9
7.5°	8159.0	8515.5	8627.7	8712.4	8410.8	7912.2	7433.6	6902.6	6773.0	6783.0
10°	7633.0	8201.4	8478.1	8565.3	8218.8	7787.6	7124.5	6586.0	6309.3	6304.3
12.5°	7341.4	7787.6	7864.9	7987.0	7884.8	7448.6	6945.0	6341.7	6072.5	6067.5
15°	7082.1	7376.3	7398.7	7570.7	7625.5	7331.4	6992.4	6349.2	6132.3	6109.9
17.5°	7309.0	7104.5	7019.8	7042.2	7204.3	7311.4	7266.6	6773.0	6551.1	6426.5
20°	7461.0	7004.8	6748.1	6773.0	6964.9	7356.3	7675.4	7386.2	7034.7	7049.7
22.5°	7867.3	7019.8	6618.4	6591.0	6895.1	7590.6	8136.6	8161.5	7822.5	7740.2
25°	8475.6	7191.8	6578.6	6571.1	6862.7	7842.4	8675.0	9078.9	8732.4	8580.3
27.5°	8964.2	7461.0	6703.2	6728.1	6964.9	8046.8	9133.7	9669.7	9405.4	9218.5
30°	9393.0	7740.2	6877.7	6763.0	7239.2	8154.0	9330.6	10342.7	10130.8	9976.3
32.5°	9569.9	8136.6	7154.4	6964.9	7466.0	8283.6	9739.5	10995.8	10813.9	10432.5
35°	9869.1	8358.4	7304.0	7289.0	7862.4	8595.3	9931.4	11427.1	11352.3	11013.3
37.5°	10108.4	8582.8	7834.9	7670.4	8405.8	9118.7	10240.5	12022.9	11850.9	11691.3
40°	10292.9	8984.1	8331.0	8547.9	9073.9	9594.9	10524.7	12060.3	12556.3	12092.7
42.5°	10123.4	9343.1	9146.2	9664.7	10163.2	10138.3	10557.1	12349.4	12720.9	12479.1
45°	10081.0	9951.3	10435.0	10906.1	11020.8	10589.5	10325.3	12030.4	12671.0	12563.8
47.5°	9978.8	10549.6	11392.2	12160.0	11985.5	10891.1	10048.6	11973.0	12700.9	12509.0
50°	9943.9	10679.3	12100.2	12848.0	12743.3	11152.9	9918.9	11604.1	12489.0	12471.6
52.5°	9941.4	10946.0	12394.3	13221.9	13286.7	11566.7	10095.9	11791.0	12653.6	12800.6
55°	10053.6	10861.2	12356.9	13015.0	12990.1	11382.2	10115.9	11915.7	12855.5	13000.1
57.5°	9482.7	9729.5	10198.1	10719.1	10584.5	9427.9	9034.0	11015.8	11798.5	11693.8
60°	8188.9	7416.1	6887.7	6862.7	6601.0	6239.5	7393.7	9831.7	9831.7	9729.5
62.5°	7171.8	4868.5	4183.0	3988.5	4175.5	4591.8	7132.0	9562.5	9290.7	9173.6
65°	6271.9	3716.8	3023.8	2969.0	3293.0	3921.2	6448.9	8146.5	7667.9	7279.0
67.5°	4035.9	2722.2	2248.5	2151.3	2542.7	2879.2	4292.6	5010.6	4708.9	4556.9
70°	2602.5	1772.4	1251.4	1174.1	1326.2	1774.9	2742.1	2921.6	2482.9	2380.6
72.5°	1231.5	765.3	438.7	361.5	406.3	678.0	1084.4	1166.6	969.7	887.4
75°	391.4	281.7	179.5	154.6	147.1	174.5	249.3	191.9	139.6	137.1
77.5°	174.5	167.0	142.1	119.7	104.7	87.2	72.3	59.8	62.3	64.8
80°	144.6	132.1	117.2	104.7	87.2	67.3	52.3	39.9	39.9	42.4
82.5°	127.1	114.7	102.2	87.2	74.8	54.8	39.9	27.4	24.9	24.9
85°	54.8	64.8	69.8	74.8	59.8	44.9	27.4	17.4	15.0	15.0
87.5°	22.4	19.9	17.4	15.0	12.5	12.5	10.0	7.5	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)