

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: P533411

Luminaire Tested: **GALN-SA8D-750-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-750-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34534 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

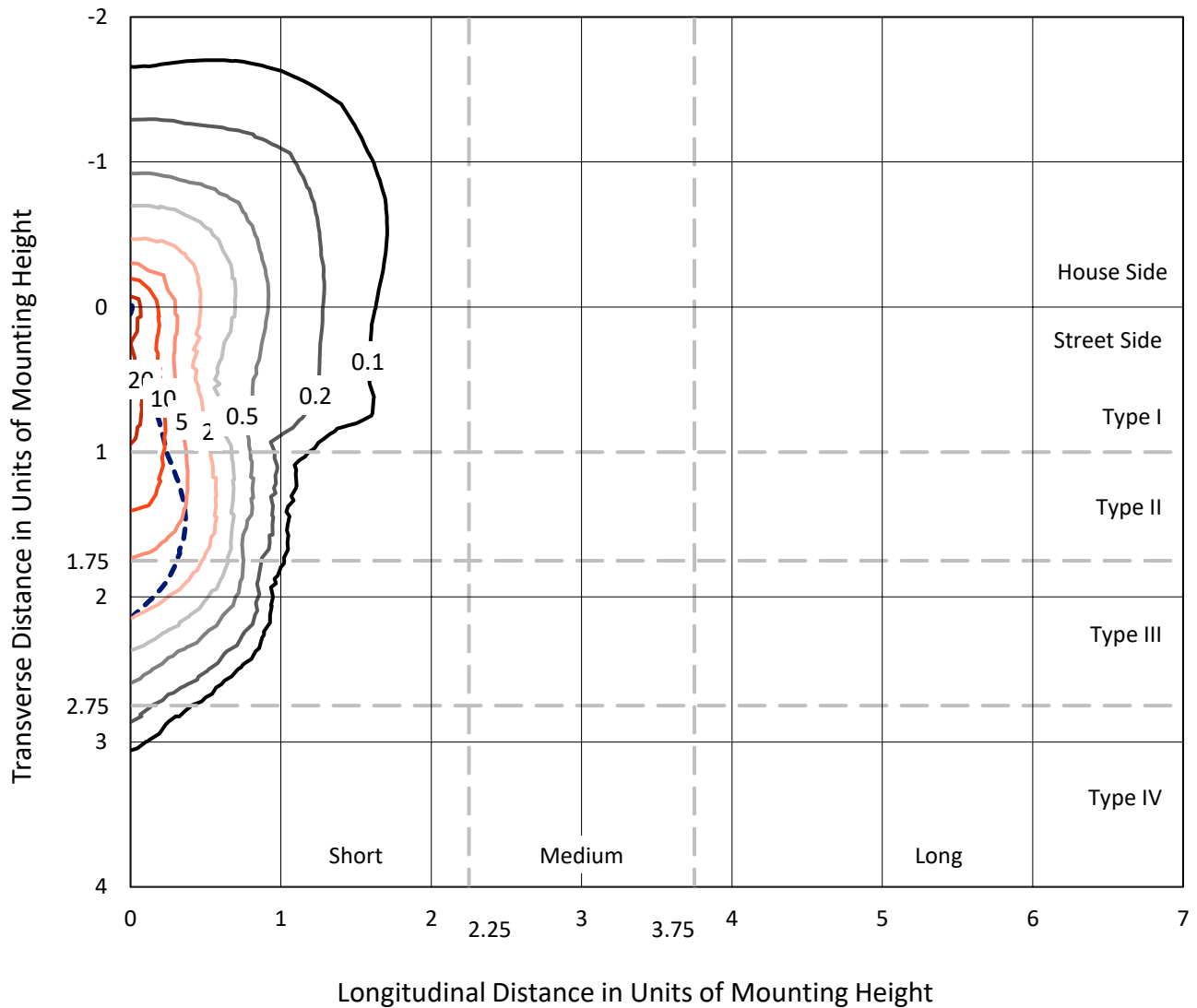
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

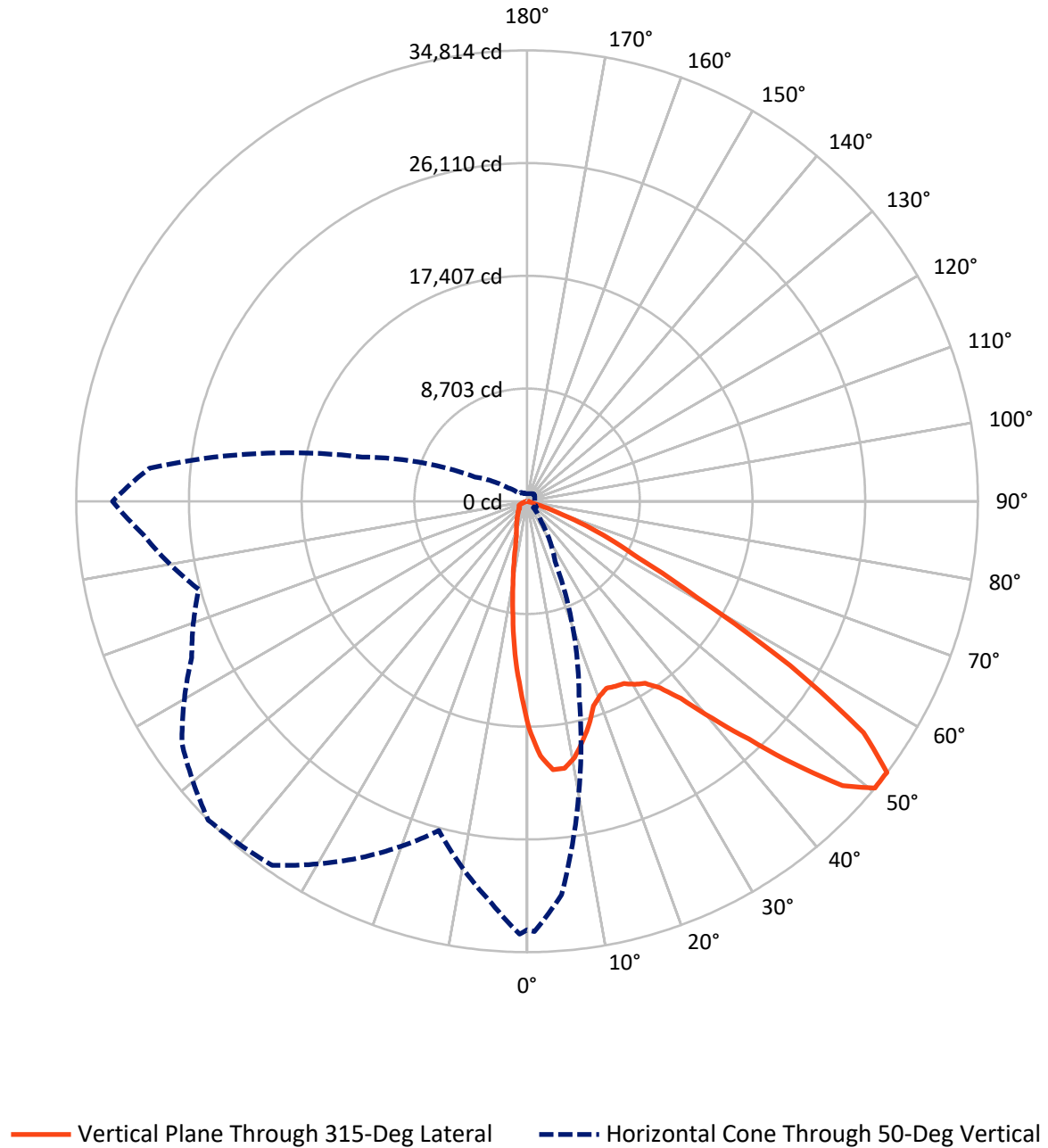
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28 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	6917.2	0.0	6917.2
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	27616.8	0.0	27616.8
	% Fixture	80.0	0.0	80.0
Total	Lumens	34534.0	0.0	34534.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1276.5	3.7
10°-20°	2537.0	7.3
20°-30°	3811.4	11.0
30°-40°	5720.8	16.6
40°-50°	8040.1	23.3
50°-60°	8672.7	25.1
60°-70°	4026.7	11.7
70°-80°	378.9	1.1
80°-90°	69.8	0.2
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°	34534.0	100.0
0°-180°	34534.0	100.0

Coefficient of Utilization



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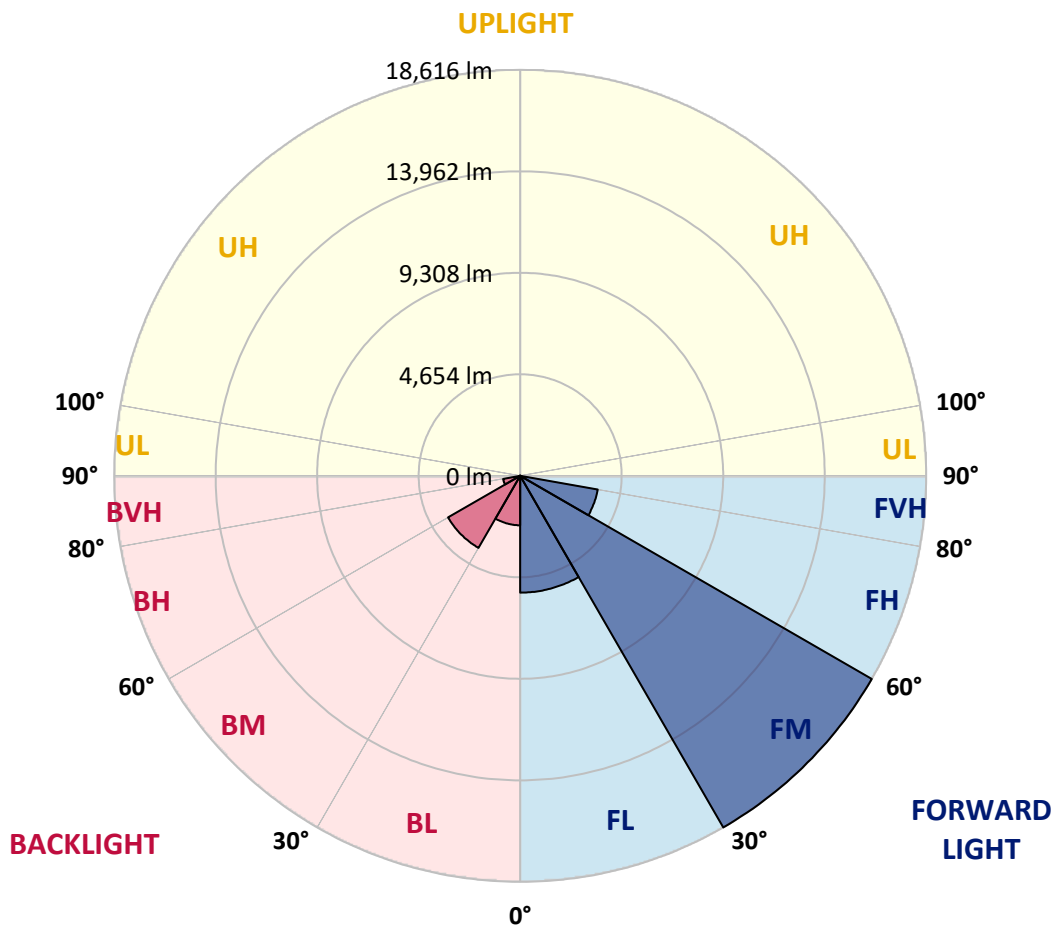
CATALOG NUMBER: GALN-SA8D-750-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5357.7	15.5			
FM (30°-60°)	18616.4	53.9			
FH (60°-80°)	3611.3	10.5			G2/5000
FVH (80°-90°)	31.5	0.1			G1/100
BL (0°-30°)	2267.3	6.6	B3/2500		
BM (30°-60°)	3817.2	11.1	B3/5000		
BH (60°-80°)	794.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	38.4	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17513.1	17513.1	17513.1	17513.1	17513.1	17513.1	17513.1	17513.1	17513.1	17513.1	17513.1
2.5°	18205.1	17924.2	17567.9	17273.3	16834.8	15950.9	15711.1	15423.3	15183.5	14861.5	14409.2
5°	16553.8	16464.8	16300.3	15190.3	14388.7	13319.8	12442.8	12072.8	11586.3	11188.9	10901.1
7.5°	15293.1	14936.8	14416.1	13299.3	12018.0	10873.7	9900.8	9332.1	8688.0	8468.8	8078.2
10°	13943.3	14025.5	13258.1	11689.1	10140.6	9215.6	8612.7	8064.5	7482.1	7098.4	6543.4
12.5°	13511.7	13244.4	12655.2	10716.1	9393.8	8530.4	7797.3	7119.0	6502.3	5885.7	5351.2
15°	13792.6	13381.5	12559.3	10510.6	8818.2	7742.5	6824.4	5906.2	5337.5	4549.6	3994.6
17.5°	14799.8	14470.9	13367.8	10729.9	8523.6	6988.8	5625.3	4679.8	3809.6	3097.0	2816.1
20°	16478.5	16012.6	14628.5	11010.8	8085.1	6077.5	4563.3	3398.5	2576.3	2274.8	2117.2
22.5°	18122.9	17869.4	16122.2	11552.1	7694.5	5269.0	3425.9	2288.5	1925.3	1870.5	1767.8
25°	21254.2	20493.6	18403.8	12531.9	7393.0	4508.5	2583.1	1843.1	1630.7	1589.6	1603.3
27.5°	23117.8	22480.6	20514.2	13182.8	7057.3	3926.1	2185.7	1692.4	1548.5	1459.4	1425.2
30°	24906.1	24166.1	21562.5	13566.5	6337.9	3309.4	1939.0	1623.9	1589.6	1459.4	1418.3
32.5°	26283.3	25557.1	23076.7	14142.0	6043.2	2912.0	1596.5	1267.6	1178.5	1164.8	1288.1
35°	28393.7	27619.4	24371.7	14457.2	5817.1	2706.4	1384.1	1130.5	1027.8	986.7	993.5
37.5°	30360.1	29832.6	25570.8	14580.5	5577.3	2644.8	1240.2	1014.1	925.0	897.6	890.7
40°	32004.6	30826.1	26708.1	14710.7	5474.6	2528.3	1151.1	925.0	863.3	822.2	822.2
42.5°	32758.3	31559.2	27982.6	14635.4	5447.1	2343.3	1151.1	849.6	801.7	760.5	753.7
45°	32593.8	32107.3	28551.3	14601.1	5447.1	2158.3	1048.3	829.1	760.5	705.7	692.0
47.5°	33018.6	32381.4	29263.9	14745.0	5337.5	2028.1	883.9	870.2	719.4	650.9	637.2
50°	33094.0	33217.3	30504.0	15491.8	5097.7	1863.7	692.0	856.5	692.0	589.3	575.5
52°	33587.3	32819.9	30880.9	15889.2	4844.2	1740.3	582.4	733.1	664.6	548.1	534.4
52.5°	32909.0	33409.2	30969.9	16033.1	4871.6	1658.1	561.8	719.4	650.9	548.1	513.9
55°	32148.4	32628.1	30606.8	16341.4	4467.3	1301.8	438.5	520.7	589.3	479.6	459.1
57.5°	27941.5	28427.9	26598.5	14964.2	3638.3	918.1	363.1	390.6	520.7	445.4	424.8
60°	24837.6	24488.2	22323.0	12483.9	2583.1	513.9	287.8	301.5	568.7	411.1	404.3
62.5°	22699.9	21953.0	18657.3	9640.4	1575.9	342.6	226.1	233.0	438.5	383.7	383.7
65°	16793.7	15957.7	12394.8	5830.8	774.2	239.8	171.3	185.0	274.1	328.9	328.9
67.5°	9585.6	9263.6	5988.4	2631.1	322.0	150.7	130.2	143.9	212.4	267.2	253.5
70°	4405.7	3953.5	2302.2	555.0	150.7	102.8	102.8	116.5	171.3	198.7	185.0
72.5°	1288.1	1219.6	561.8	89.1	61.7	61.7	68.5	89.1	130.2	150.7	137.0
75°	95.9	61.7	41.1	27.4	27.4	41.1	54.8	89.1	130.2	143.9	116.5
77.5°	6.9	13.7	6.9	6.9	20.6	41.1	61.7	109.6	171.3	178.1	130.2
80°	6.9	6.9	0.0	6.9	20.6	41.1	68.5	123.3	191.8	205.6	109.6
82.5°	0.0	0.0	0.0	6.9	27.4	54.8	82.2	130.2	178.1	219.3	116.5
85°	0.0	0.0	0.0	6.9	41.1	75.4	95.9	34.3	20.6	0.0	0.0
87.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	17513.1	17513.1	17513.1	17513.1	17513.1	17513.1	17513.1	17513.1	17513.1	17513.1	17513.1
2.5°	14731.3	14553.1	14484.6	14546.3	14525.7	14505.2	14882.0	14799.8	14786.1	14909.4	14882.0
5°	11058.7	10743.6	11606.9	11257.4	11620.6	11839.8	11880.9	11901.5	12155.0	11887.8	12237.2
7.5°	7879.5	7961.7	7954.9	8187.8	8605.8	8975.8	9195.1	9023.8	9010.1	8975.8	8825.1
10°	6296.8	6152.9	6125.5	6070.7	6200.8	6516.0	6783.2	6570.8	6420.1	6625.6	6564.0
12.5°	5145.7	4947.0	4837.3	4618.1	4624.9	4837.3	4837.3	4837.3	4988.1	5104.6	5193.6
15°	3946.6	3782.2	3782.2	3562.9	3515.0	3521.8	3631.4	3645.1	3884.9	3953.5	3987.7
17.5°	2761.3	2672.2	2775.0	2864.0	2809.2	2822.9	2864.0	2877.7	2912.0	2884.6	2953.1
20°	2124.0	2110.3	2137.7	2295.3	2411.8	2480.3	2432.4	2363.9	2322.7	2226.8	2226.8
22.5°	1802.0	1829.4	1877.4	2007.6	2158.3	2199.4	2144.6	1987.0	1863.7	1850.0	1856.8
25°	1603.3	1630.7	1706.1	1788.3	1870.5	1939.0	1884.2	1767.8	1699.2	1637.6	1637.6
27.5°	1480.0	1493.7	1534.8	1596.5	1665.0	1719.8	1699.2	1637.6	1562.2	1534.8	1473.1
30°	1384.1	1404.6	1452.6	1466.3	1527.9	1555.3	1521.1	1507.4	1459.4	1425.2	1404.6
32.5°	1336.1	1329.2	1363.5	1377.2	1384.1	1404.6	1363.5	1384.1	1377.2	1322.4	1301.8
35°	1007.2	1062.0	1151.1	1226.5	1247.0	1274.4	1267.6	1240.2	1164.8	1103.1	1027.8
37.5°	904.4	938.7	986.7	1048.3	1130.5	1164.8	1151.1	1082.6	993.5	952.4	938.7
40°	835.9	856.5	897.6	938.7	1020.9	1082.6	1034.6	972.9	904.4	870.2	849.6
42.5°	774.2	781.1	801.7	842.8	904.4	1000.4	918.1	835.9	808.5	788.0	774.2
45°	705.7	705.7	733.1	753.7	822.2	911.3	829.1	753.7	740.0	726.3	719.4
47.5°	650.9	657.8	671.5	698.9	753.7	815.4	760.5	698.9	664.6	657.8	644.1
50°	582.4	589.3	616.7	644.1	712.6	746.8	712.6	644.1	609.8	589.3	589.3
52°	527.6	548.1	575.5	630.4	678.3	733.1	692.0	616.7	575.5	555.0	541.3
52.5°	520.7	534.4	561.8	623.5	678.3	726.3	685.2	609.8	561.8	548.1	534.4
55°	465.9	486.5	534.4	609.8	671.5	726.3	671.5	603.0	534.4	500.2	486.5
57.5°	445.4	459.1	520.7	616.7	664.6	726.3	671.5	603.0	534.4	472.8	459.1
60°	424.8	452.2	520.7	596.1	657.8	733.1	678.3	596.1	520.7	445.4	445.4
62.5°	404.3	424.8	513.9	582.4	630.4	705.7	650.9	582.4	500.2	424.8	418.0
65°	349.4	383.7	452.2	486.5	541.3	609.8	555.0	507.0	438.5	376.8	370.0
67.5°	267.2	280.9	335.7	376.8	411.1	472.8	445.4	383.7	335.7	287.8	287.8
70°	185.0	198.7	239.8	260.4	294.6	328.9	308.3	260.4	226.1	198.7	191.8
72.5°	130.2	137.0	150.7	164.4	178.1	191.8	185.0	150.7	130.2	123.3	116.5
75°	102.8	116.5	123.3	116.5	109.6	102.8	102.8	89.1	75.4	68.5	68.5
77.5°	102.8	109.6	102.8	89.1	75.4	68.5	61.7	54.8	41.1	34.3	41.1
80°	89.1	89.1	89.1	75.4	68.5	61.7	54.8	48.0	41.1	34.3	34.3
82.5°	95.9	95.9	89.1	75.4	75.4	61.7	61.7	54.8	48.0	34.3	34.3
85°	0.0	0.0	0.0	13.7	34.3	61.7	61.7	54.8	48.0	41.1	41.1
87.5°	0.0	0.0	0.0	0.0	6.9	13.7	27.4	34.3	41.1	41.1	41.1
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°	17513.1	17513.1	17513.1	17513.1	17513.1	17513.1	17513.1	17513.1	17513.1	17513.1	17513.1
2.5°	15128.7	15389.0	15882.4	16375.7	16677.2	17033.5	17677.5	18020.1	18465.5	18684.7	19116.4
5°	12189.3	12805.9	13025.2	13587.0	14190.0	14792.9	15752.2	16807.4	17684.4	18287.3	19068.4
7.5°	8893.6	9037.5	9887.1	10263.9	11250.6	12346.9	13655.6	14984.8	16094.8	17081.4	17677.5
10°	6666.8	7194.3	7728.8	8448.2	9243.0	10373.6	11627.4	13093.7	14532.6	15519.2	16272.9
12.5°	5358.1	5776.0	6488.6	7262.9	8242.7	8989.5	10250.2	11702.8	13566.5	14532.6	15526.1
15°	4056.2	4590.7	5399.2	6200.8	7235.5	8023.4	9297.8	11127.3	13525.4	14854.6	15711.1
17.5°	3007.9	3371.1	4097.4	4994.9	6050.1	7160.1	8879.9	11065.6	13984.4	15567.2	16451.1
20°	2302.2	2425.5	2884.6	3686.2	4830.5	6283.1	8201.6	11332.8	15341.1	17300.7	18198.3
22.5°	1863.7	1918.5	2096.6	2651.6	3761.6	5515.7	7879.5	11517.8	16869.0	19376.8	20575.8
25°	1623.9	1610.2	1726.6	1966.5	2939.4	4796.2	7468.4	12216.7	18739.6	21816.0	22891.7
27.5°	1480.0	1480.0	1534.8	1706.1	2439.2	4330.3	7208.0	12716.9	20623.8	23960.6	24543.0
30°	1404.6	1418.3	1575.9	1630.7	2028.1	3775.3	6776.4	13223.9	22425.8	25330.9	26132.6
32.5°	1301.8	1247.0	1212.8	1349.8	1706.1	3275.1	6344.7	13436.3	23885.2	27009.6	27694.8
35°	1000.4	972.9	1014.1	1116.8	1466.3	2850.3	5865.1	13676.1	25563.9	28955.5	29092.6
37.5°	904.4	897.6	925.0	1014.1	1233.3	2480.3	5522.5	13614.4	26845.2	30565.7	30195.7
40°	835.9	835.9	856.5	931.8	1103.1	2220.0	5166.2	13559.6	28085.4	32374.6	31292.0
42.5°	781.1	781.1	815.4	863.3	1048.3	2048.7	4899.0	13484.3	29126.8	33484.5	31936.0
45°	705.7	726.3	781.1	829.1	1062.0	1932.2	4700.3	13196.5	29483.1	33470.8	31627.7
47.5°	650.9	678.3	733.1	801.7	959.2	1897.9	4563.3	12943.0	29359.8	32648.6	30661.6
50°	589.3	623.5	698.9	815.4	815.4	1829.4	4419.4	13169.1	29270.7	32011.4	29736.6
52°	548.1	575.5	671.5	794.8	712.6	1685.5	4330.3	13607.6	29633.8	31929.2	29325.5
52.5°	541.3	561.8	650.9	781.1	678.3	1658.1	4268.6	13710.4	29750.3	31723.6	29606.4
55°	479.6	507.0	596.1	609.8	555.0	1363.5	4069.9	13943.3	29174.8	31319.4	29339.2
57.5°	452.2	465.9	527.6	500.2	479.6	1027.8	3501.2	13580.2	25913.3	27818.1	27297.4
60°	418.0	431.7	493.3	390.6	404.3	719.4	2631.1	11791.9	20808.8	23179.5	24118.2
62.5°	404.3	397.4	465.9	315.2	342.6	520.7	1856.8	9585.6	16033.1	19082.1	20706.0
65°	356.3	349.4	335.7	267.2	294.6	404.3	1110.0	6255.7	11298.5	14436.7	15327.4
67.5°	274.1	287.8	246.7	212.4	246.7	315.2	616.7	2802.4	5926.8	8660.6	9380.1
70°	191.8	205.6	198.7	185.0	219.3	260.4	356.3	959.2	2452.9	4549.6	5015.5
72.5°	116.5	143.9	150.7	157.6	191.8	226.1	253.5	308.3	650.9	1610.2	2000.7
75°	68.5	95.9	116.5	137.0	157.6	191.8	212.4	219.3	226.1	301.5	486.5
77.5°	48.0	68.5	102.8	130.2	157.6	191.8	226.1	239.8	226.1	212.4	226.1
80°	41.1	68.5	95.9	123.3	164.4	198.7	226.1	226.1	219.3	191.8	205.6
82.5°	41.1	68.5	102.8	130.2	157.6	191.8	219.3	226.1	205.6	191.8	198.7
85°	48.0	75.4	109.6	137.0	171.3	157.6	143.9	116.5	109.6	89.1	95.9
87.5°	48.0	68.5	68.5	75.4	82.2	82.2	82.2	75.4	61.7	54.8	54.8
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: P533411

CATALOG NUMBER: GALN-SA8D-750-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	17513.1	17513.1	17513.1	17513.1	17513.1	17513.1	17513.1	17513.1	17513.1	17513.1
2.5°	19137.0	19685.1	19664.5	19678.2	19596.0	19041.0	18773.8	18095.5	18287.3	18205.1
5°	19870.1	20411.4	20877.3	20822.5	20192.1	19438.4	18321.6	17266.4	16978.7	16553.8
7.5°	19137.0	20438.8	20870.5	20808.8	19876.9	18910.8	17129.4	16074.2	15574.0	15293.1
10°	17972.2	19479.5	20014.0	20123.6	19493.2	18027.0	16389.4	14697.0	14429.8	13943.3
12.5°	17307.5	18403.8	18732.7	19027.3	18808.1	17711.8	15827.6	14203.7	13833.7	13511.7
15°	16766.2	17417.2	17554.2	17889.9	18020.1	17430.9	16122.2	14738.1	13826.8	13792.6
17.5°	17266.4	16999.2	16499.0	16601.8	17012.9	17437.7	16882.7	15793.3	14909.4	14799.8
20°	18095.5	16917.0	15786.4	16040.0	16382.6	17684.4	18033.8	17266.4	16759.4	16478.5
22.5°	19047.9	17060.9	15560.3	15683.7	16334.6	18239.4	19897.5	19472.7	18527.2	18122.9
25°	20808.8	17458.3	15738.5	15820.7	16711.4	19013.6	21583.0	21898.2	21336.4	21254.2
27.5°	22528.6	18486.0	16129.0	15944.0	16903.3	19767.3	22603.9	24296.3	23309.7	23117.8
30°	23405.6	19322.0	16711.4	16396.3	17698.1	20226.4	23220.6	25858.5	24995.2	24906.1
32.5°	24748.5	20082.5	17163.7	16759.4	18143.5	20795.1	24371.7	27564.6	26728.7	26283.3
35°	25310.4	20911.6	18157.2	17684.4	19417.9	21589.9	24961.0	29085.7	28825.3	28393.7
37.5°	26393.0	21802.3	19328.8	19301.4	20959.5	22624.5	26023.0	31154.9	31107.0	30360.1
40°	26482.0	22775.2	21178.8	22042.1	23343.9	24426.5	26954.8	31730.5	32511.6	32004.6
42.5°	26619.1	24481.3	24378.6	25091.1	26208.0	25975.0	26989.1	31867.5	33059.7	32758.3
45°	26680.7	26187.4	27633.1	28948.7	29414.6	28003.1	26667.0	31607.2	33347.5	32593.8
47.5°	26187.4	27653.7	30264.2	32806.2	32943.2	29250.2	26530.0	31339.9	33518.8	33018.6
50°	26255.9	28571.8	32539.0	34813.8	34313.6	30353.3	26317.6	31175.5	33429.7	33094.0
52°	26091.5	28592.4	32861.0	34772.7	34423.2	29743.5	25954.5	30545.1	33347.5	33587.3
52.5°	26276.5	28469.1	32525.3	34800.1	34347.9	30045.0	25906.5	30894.6	33395.5	32909.0
55°	25639.3	27002.8	30558.8	31524.9	31456.4	27270.0	24433.4	29736.6	32141.6	32148.4
57.5°	23172.6	23405.6	23967.4	23946.9	23631.7	21439.1	20897.9	27345.4	28654.0	27941.5
60°	20418.2	17136.2	15622.0	15005.3	14655.9	14299.6	18486.0	25015.8	25139.1	24837.6
62.5°	17643.3	11880.9	9866.5	9695.2	9777.5	11079.3	17869.4	24090.8	23350.8	22699.9
65°	14238.0	8660.6	7166.9	6940.8	7742.5	9147.1	14464.1	18472.3	17334.9	16793.7
67.5°	8941.5	6317.3	4844.2	4419.4	5385.5	6296.8	9503.4	11606.9	10332.4	9585.6
70°	5303.3	3528.7	2192.6	1966.5	2213.1	3357.4	5323.8	5789.7	4789.4	4405.7
72.5°	2089.8	1295.0	609.8	520.7	541.3	1178.5	1959.6	1911.6	1445.7	1288.1
75°	561.8	390.6	212.4	171.3	143.9	219.3	315.2	205.6	75.4	95.9
77.5°	260.4	233.0	185.0	143.9	109.6	82.2	41.1	13.7	13.7	6.9
80°	226.1	198.7	171.3	143.9	109.6	68.5	34.3	6.9	6.9	6.9
82.5°	212.4	185.0	157.6	130.2	102.8	68.5	34.3	6.9	0.0	0.0
85°	89.1	116.5	130.2	123.3	109.6	68.5	34.3	6.9	0.0	0.0
87.5°	48.0	41.1	34.3	27.4	20.6	13.7	13.7	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

(END OF REPORT)