

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: P651186

Luminaire Tested: **GALN-SA1D-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4727.3 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

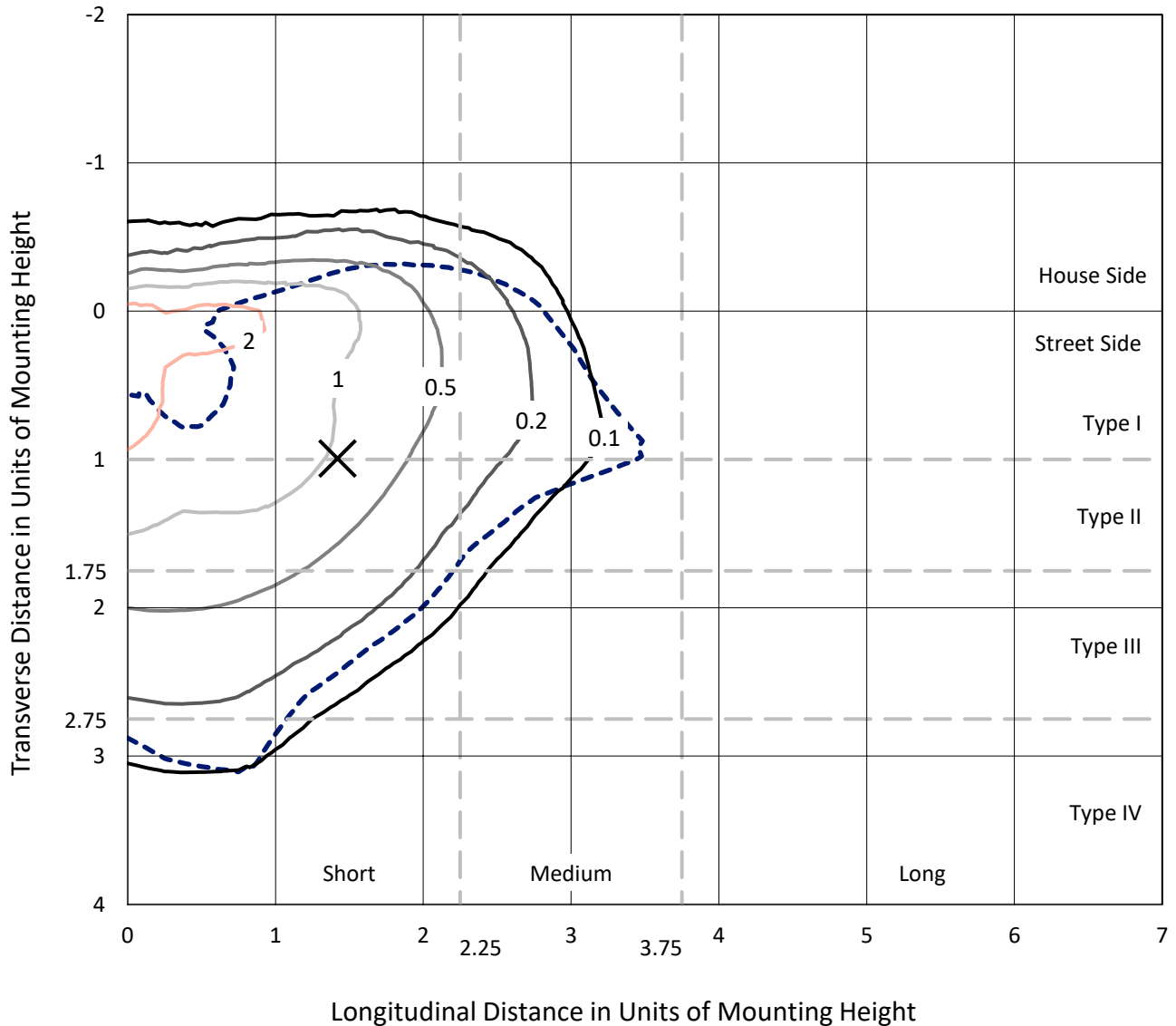
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

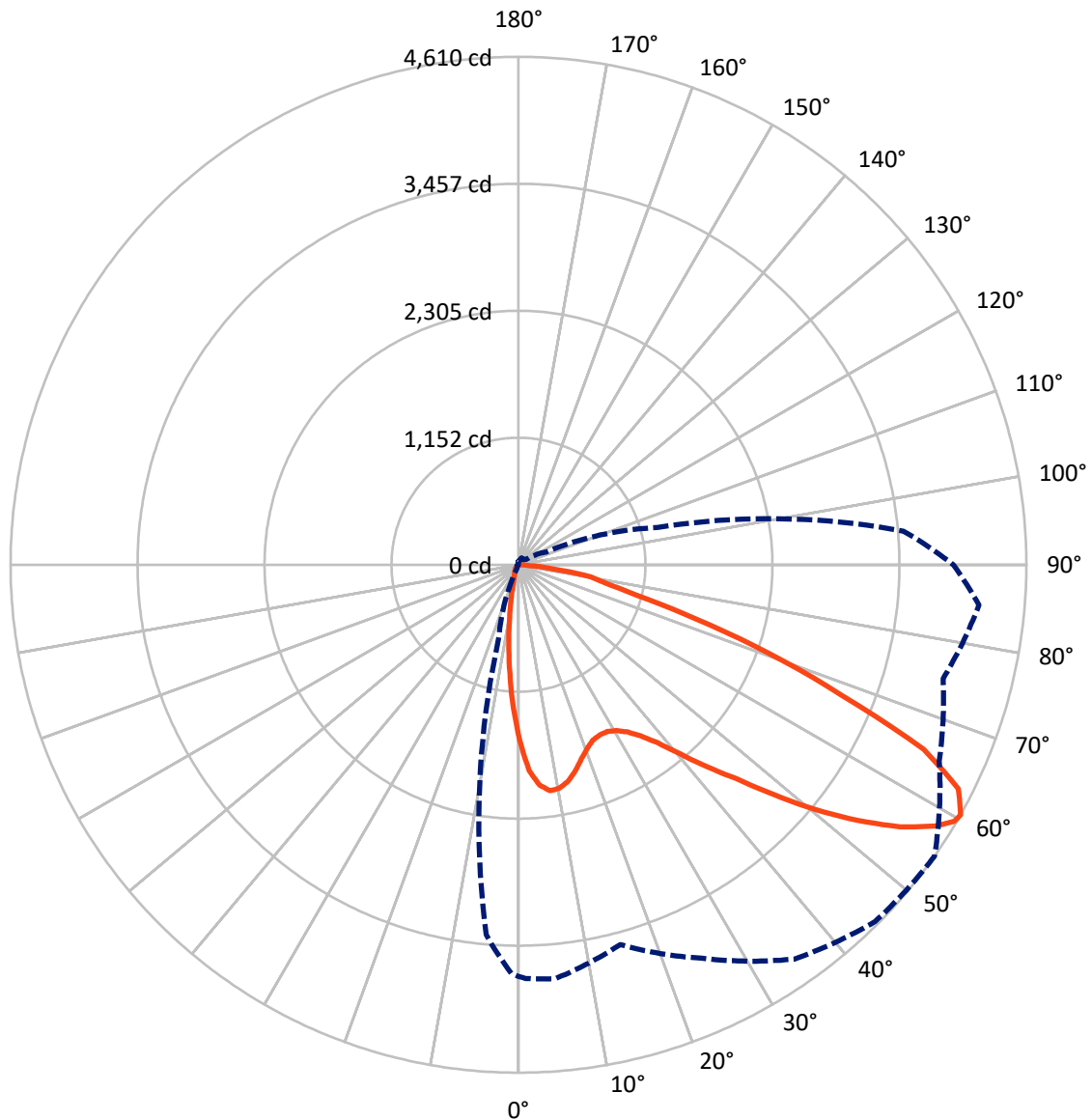
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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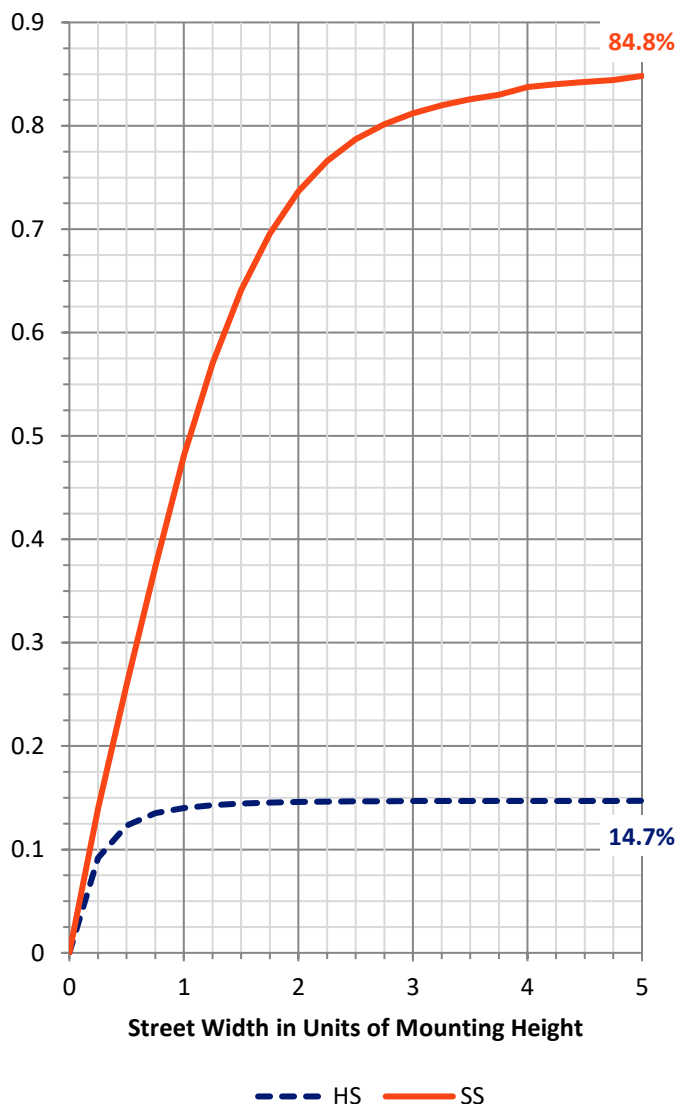
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	701.6	0.0	701.6
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	4025.7	0.0	4025.7
	% Fixture	85.2	0.0	85.2
Total	Lumens	4727.3	0.0	4727.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.5	2.5
10°-20°	233.4	4.9
20°-30°	345.5	7.3
30°-40°	515.0	10.9
40°-50°	754.2	16.0
50°-60°	1088.8	23.0
60°-70°	1145.4	24.2
70°-80°	471.2	10.0
80°-90°	55.2	1.2
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°	4727.3	100.0
0°-180°	4727.3	100.0

Coefficient of Utilization



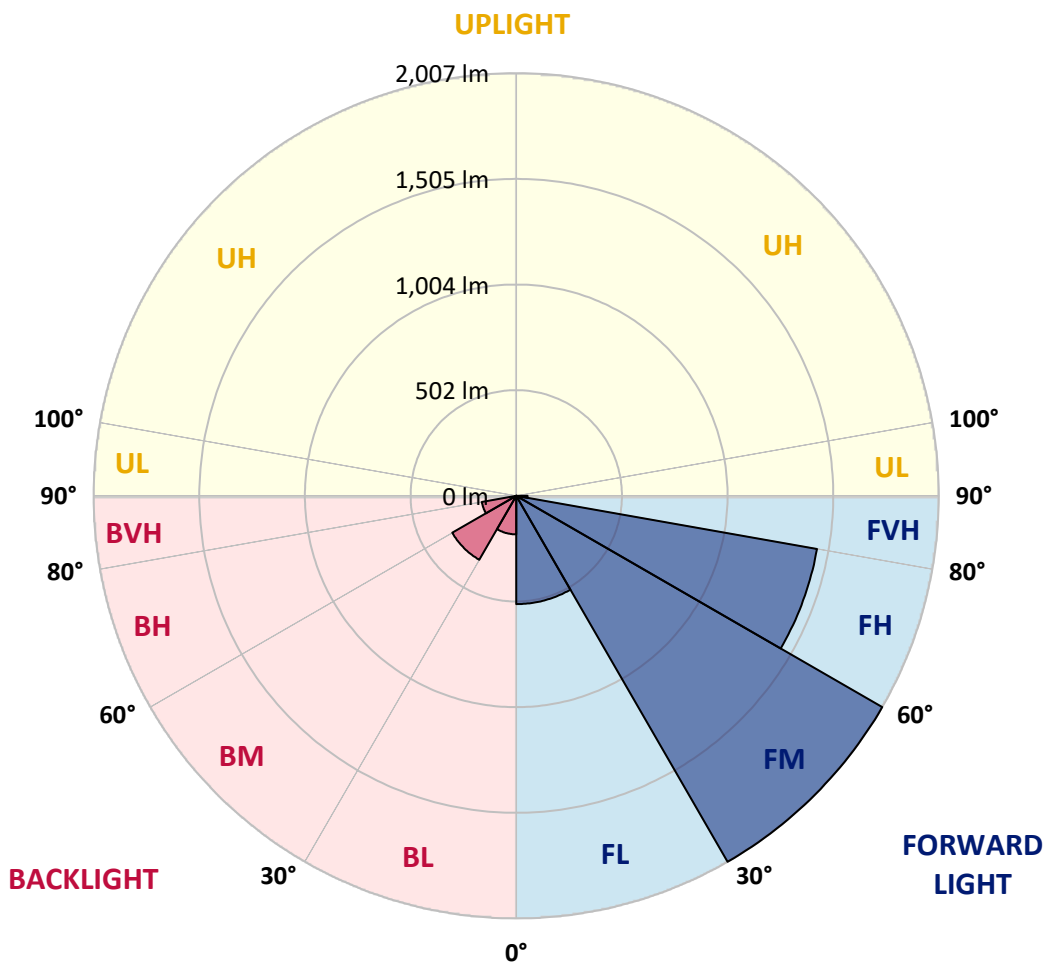
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	514.4	10.9			
FM (30°-60°)	2007.2	42.5			
FH (60°-80°)	1450.5	30.7			G1/1800
FVH (80°-90°)	53.6	1.1			G1/100
BL (0°-30°)	183.0	3.9	B1/500		
BM (30°-60°)	350.8	7.4	B1/1000		
BH (60°-80°)	166.1	3.5	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1600.7	1600.7	1600.7	1600.7	1600.7	1600.7	1600.7	1600.7	1600.7	1600.7	1600.7
2.5°	1748.7	1745.8	1771.7	1813.9	1856.4	1878.6	1874.3	1872.4	1837.2	1811.3	1757.1
5°	1745.1	1760.0	1806.2	1920.5	2007.0	2048.9	2061.3	2009.2	1940.5	1840.8	1717.8
7.5°	1640.6	1659.2	1734.6	1913.2	2067.1	2158.1	2154.8	2071.5	1929.6	1775.3	1599.9
10°	1511.1	1533.0	1621.4	1838.3	2038.0	2158.1	2164.6	2059.1	1882.7	1684.7	1500.2
12.5°	1419.8	1445.6	1543.5	1768.4	1963.1	2081.3	2089.0	2012.5	1847.3	1649.8	1446.0
15°	1388.8	1413.2	1512.6	1733.0	1883.3	1947.0	1945.2	1937.2	1833.5	1658.1	1448.9
17.5°	1442.0	1462.0	1574.1	1749.1	1808.7	1802.2	1811.7	1850.3	1836.4	1728.3	1540.6
20°	1579.1	1599.6	1720.0	1798.2	1751.6	1710.2	1714.5	1779.0	1863.3	1860.5	1683.9
22.5°	1768.0	1802.6	1911.8	1893.5	1744.0	1653.1	1643.9	1727.7	1909.2	2012.5	1877.5
25°	2007.0	2042.0	2127.1	2045.6	1781.5	1639.5	1631.2	1711.9	1964.8	2160.9	2095.5
27.5°	2208.0	2234.5	2319.3	2193.7	1836.7	1645.4	1631.5	1714.1	2010.0	2287.3	2279.3
30°	2368.8	2388.4	2438.2	2262.9	1884.4	1670.9	1654.8	1746.2	2030.0	2348.7	2428.1
32.5°	2498.3	2531.4	2547.1	2336.7	1952.9	1718.9	1691.6	1807.6	2078.8	2424.8	2584.1
35°	2646.4	2684.6	2664.5	2407.4	2043.1	1793.9	1760.4	1907.4	2152.6	2495.0	2765.4
37.5°	2834.2	2878.2	2799.9	2481.5	2138.4	1906.6	1891.0	2047.5	2264.7	2595.4	2959.6
40°	3028.4	3053.9	2931.3	2571.8	2255.6	2070.7	2085.7	2255.6	2411.3	2715.8	3166.4
42.5°	3180.2	3204.2	3066.3	2647.5	2375.3	2265.4	2327.6	2506.7	2579.4	2839.2	3320.6
45°	3296.2	3316.7	3159.8	2730.1	2536.9	2547.4	2665.0	2765.4	2747.9	2914.6	3439.6
47.5°	3386.5	3403.9	3231.9	2818.9	2778.8	2892.4	3072.1	3114.6	2922.6	2996.1	3547.3
50°	3423.6	3428.7	3254.4	2932.0	3053.6	3331.9	3519.3	3493.4	3122.7	3086.6	3662.0
52.5°	3472.0	3470.9	3318.8	3039.7	3311.9	3724.9	3911.9	3853.3	3349.0	3222.4	3790.7
55°	3599.0	3600.4	3456.7	3192.5	3532.0	4042.2	4242.3	4199.7	3587.7	3451.6	3941.0
57.5°	3753.2	3758.7	3652.8	3371.2	3742.4	4272.1	4489.0	4472.6	3910.5	3706.7	4082.9
59°	3773.2	3784.2	3745.6	3497.1	3867.2	4342.8	4573.4	4589.4	4083.3	3874.8	4159.7
60°	3736.9	3755.1	3772.6	3568.4	3940.3	4368.2	4578.5	4609.8	4213.2	3989.0	4194.7
62.5°	3578.2	3607.0	3694.7	3787.9	4031.6	4288.8	4415.8	4481.4	4374.0	4289.3	4197.9
65°	3370.5	3385.4	3512.0	3826.7	3854.4	3918.5	3957.7	4041.8	4180.8	4404.9	4047.6
67.5°	3029.9	3073.9	3228.9	3600.8	3331.5	3255.8	3246.0	3162.3	3523.3	4129.1	3677.2
70°	2503.0	2522.7	2713.7	2952.0	2514.3	2397.9	2444.5	2413.2	2731.1	3554.6	2959.6
72.5°	1892.8	1937.2	2123.9	2353.1	1710.8	1559.9	1688.3	1676.7	2051.5	2856.7	2033.3
75°	1346.7	1375.4	1613.4	1841.5	1198.2	1015.2	1061.4	1104.7	1432.1	2255.6	1201.5
77.5°	925.3	950.1	1128.7	1217.9	874.0	837.2	765.9	807.8	938.4	1338.3	653.9
80°	558.2	557.1	674.6	696.4	608.7	707.0	593.1	665.9	567.3	572.7	253.2
82.5°	362.4	358.8	412.6	449.8	338.8	356.2	239.1	344.6	369.7	159.7	80.1
85°	162.3	169.2	198.3	261.6	148.4	79.0	48.8	105.9	157.5	80.4	0.0
87.5°	16.7	13.1	34.9	63.7	20.4	2.2	7.3	3.6	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°	1600.7	1600.7	1600.7	1600.7	1600.7	1600.7	1600.7	1600.7	1600.7	1600.7	1600.7
2.5°	1732.0	1710.8	1647.9	1589.0	1538.4	1476.5	1436.5	1373.6	1335.3	1323.7	1325.6
5°	1662.5	1601.8	1482.0	1386.3	1279.7	1218.9	1126.5	1037.7	989.7	971.9	963.9
7.5°	1516.9	1451.8	1307.3	1157.0	1042.8	936.2	867.5	789.2	735.7	691.7	684.1
10°	1408.8	1323.4	1144.3	982.8	892.6	812.5	743.7	665.5	602.6	552.4	538.5
12.5°	1344.1	1248.4	1048.6	913.3	827.8	745.5	656.1	565.4	501.1	446.8	421.7
15°	1332.5	1221.5	1021.7	863.5	757.9	658.6	539.6	441.7	375.5	324.2	308.6
17.5°	1402.7	1269.9	1017.7	811.4	666.6	525.8	402.1	320.9	246.3	217.6	206.3
20°	1527.8	1355.4	1017.4	751.0	572.7	404.9	282.3	209.2	179.0	165.2	158.6
22.5°	1698.5	1471.8	1036.6	699.0	475.2	298.7	201.6	166.7	149.2	137.9	135.3
25°	1907.1	1644.3	1084.0	663.7	400.7	234.3	166.3	142.6	128.1	123.0	120.8
27.5°	2092.2	1809.5	1136.0	627.3	347.2	207.4	154.2	130.6	119.0	115.0	111.7
30°	2251.9	1959.4	1161.1	579.3	304.2	189.9	156.4	139.7	124.5	112.4	107.0
32.5°	2385.2	2074.4	1177.5	535.6	267.8	155.3	123.7	108.1	101.2	96.8	93.2
35°	2551.8	2198.8	1167.6	510.8	249.3	141.5	112.8	93.2	81.5	72.7	69.1
37.5°	2726.4	2323.3	1150.6	490.5	240.9	131.4	107.3	88.4	75.7	66.6	61.9
40°	2907.3	2438.6	1130.6	471.5	233.2	124.8	104.0	84.4	71.7	61.9	56.8
42.5°	3072.8	2551.1	1122.5	459.2	220.8	125.9	101.5	82.6	67.7	57.5	53.2
45°	3206.7	2657.6	1133.4	452.6	207.4	124.0	102.3	80.4	64.4	54.6	50.2
47.5°	3349.7	2808.3	1168.7	446.1	194.3	115.4	107.7	80.1	62.9	52.7	48.0
50°	3516.1	3001.1	1249.5	430.1	178.3	105.9	114.6	79.7	61.1	50.5	45.8
52.5°	3737.6	3220.2	1332.8	402.1	155.0	96.8	109.5	78.6	57.5	48.0	43.3
55°	3936.6	3450.9	1403.5	368.9	125.6	83.7	98.6	73.8	51.3	43.6	39.3
57.5°	4018.9	3581.1	1401.3	323.1	100.4	73.5	81.2	67.7	44.7	38.6	34.9
59°	3988.7	3564.7	1354.3	289.3	91.7	68.0	67.3	66.9	41.9	34.9	32.0
60°	3946.1	3505.1	1303.7	272.6	86.2	64.4	61.9	66.2	39.3	32.7	29.9
62.5°	3783.1	3257.7	1136.0	244.1	79.0	54.6	49.5	56.0	34.9	28.3	25.8
65°	3546.9	2877.4	961.7	236.2	76.8	45.1	41.1	40.0	29.9	24.1	21.9
67.5°	3086.3	2434.9	779.0	230.7	77.5	37.8	36.0	30.2	24.7	20.0	18.6
70°	2471.0	1898.6	637.8	224.5	78.2	30.9	30.2	24.1	20.0	16.7	15.3
72.5°	1501.3	1125.4	502.2	195.0	76.0	24.7	26.9	18.2	14.5	12.0	11.3
75°	928.2	770.3	311.5	151.7	50.2	18.2	18.9	11.3	9.8	7.7	7.7
77.5°	537.8	486.5	111.3	54.6	22.2	10.9	8.4	5.8	5.5	3.3	3.3
80°	223.0	178.6	38.6	18.6	12.0	5.1	1.9	0.3	0.0	0.0	0.0
82.5°	65.1	57.9	10.5	8.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1600.7	1600.7	1600.7	1600.7	1600.7	1600.7	1600.7	1600.7	1600.7	1600.7	1600.7
2.5°	1294.6	1282.6	1277.1	1295.7	1278.7	1300.4	1283.7	1291.0	1312.5	1321.9	1346.3
5°	969.0	956.6	950.8	978.8	977.3	991.2	989.7	1002.5	1013.3	989.0	1014.1
7.5°	675.0	666.6	680.5	702.2	725.5	717.9	717.9	700.8	706.6	703.0	701.9
10°	513.4	484.7	477.4	476.7	485.4	487.2	477.4	453.7	462.5	465.0	480.3
12.5°	403.8	381.7	347.8	332.5	328.6	331.9	299.5	278.7	288.5	282.7	297.6
15°	289.6	271.5	251.5	234.3	229.6	223.0	187.8	163.0	160.1	161.2	163.7
17.5°	206.6	194.3	194.3	176.1	166.3	146.7	128.8	117.9	116.8	117.9	119.7
20°	152.5	145.9	145.2	140.4	129.5	116.5	104.0	101.8	101.2	102.9	103.7
22.5°	131.4	124.5	118.6	118.2	108.1	97.1	91.3	88.4	88.8	89.5	91.3
25°	117.5	110.3	104.0	100.4	93.2	85.5	80.1	78.6	78.6	79.7	80.1
27.5°	107.7	98.6	93.2	88.1	81.5	74.9	70.2	69.1	68.4	69.1	71.0
30°	100.8	91.7	84.8	77.1	72.1	65.9	61.9	60.4	60.0	60.4	61.9
32.5°	86.2	80.7	75.4	68.4	62.2	58.2	53.8	51.3	51.3	52.1	53.5
35°	65.1	62.2	61.9	60.0	54.9	50.5	45.5	43.0	43.0	44.4	45.1
37.5°	57.5	52.1	51.3	50.5	48.4	42.6	37.8	35.7	35.3	36.4	37.8
40°	52.4	46.2	43.0	42.2	42.6	36.0	30.9	28.8	28.8	29.1	30.5
42.5°	48.4	41.1	35.3	34.6	36.0	30.2	25.1	23.0	23.0	23.0	24.7
45°	45.1	36.8	29.9	26.2	28.3	24.7	20.4	18.2	17.5	18.2	18.9
47.5°	43.0	33.5	26.2	21.1	21.1	19.7	16.4	13.8	13.1	13.5	14.5
50°	41.1	30.5	22.2	17.1	15.3	15.6	12.4	10.5	9.8	9.8	10.9
52.5°	38.2	27.7	19.3	14.5	11.6	10.5	9.1	7.7	7.3	7.7	8.4
55°	34.6	25.1	16.7	12.0	9.1	7.3	6.6	5.5	5.1	5.5	6.6
57.5°	30.5	21.1	13.5	9.4	6.2	4.7	4.4	3.6	2.9	3.3	4.0
59°	28.0	18.9	11.6	7.7	4.7	3.3	3.3	2.5	1.9	2.2	3.3
60°	26.9	17.5	9.8	6.6	4.0	2.5	2.5	1.9	1.1	1.4	2.5
62.5°	23.0	14.5	7.7	4.0	1.9	0.3	1.1	0.3	0.0	0.3	1.1
65°	19.3	11.6	5.1	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.3
67.5°	16.0	8.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	12.7	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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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 CATALOG NUMBER: GALN-SA1D-840-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1600.7	1600.7	1600.7	1600.7	1600.7	1600.7	1600.7	1600.7	1600.7	1600.7
2.5°	1347.8	1399.8	1431.8	1492.2	1554.1	1601.8	1661.4	1714.9	1737.1	1748.7
5°	1039.6	1112.0	1173.4	1265.5	1351.1	1455.1	1560.6	1685.0	1732.7	1745.1
7.5°	729.6	803.4	867.8	974.5	1096.3	1235.7	1393.6	1551.5	1621.0	1640.6
10°	526.9	605.9	684.4	791.0	904.9	1056.0	1220.4	1415.8	1495.9	1511.1
12.5°	332.5	417.4	545.1	676.8	797.2	918.8	1090.9	1303.4	1391.8	1419.8
15°	192.8	256.2	352.5	524.4	677.5	838.3	1026.1	1261.2	1360.1	1388.8
17.5°	129.2	151.0	217.2	348.6	550.9	764.1	1009.7	1295.7	1405.2	1442.0
20°	108.8	118.6	141.9	212.5	424.3	697.9	1014.1	1389.6	1533.3	1579.1
22.5°	95.7	104.8	119.7	152.8	296.2	615.7	1034.9	1523.9	1709.4	1768.0
25°	84.4	93.5	106.6	126.7	199.1	520.7	1080.3	1720.3	1942.7	2007.0
27.5°	74.9	83.3	94.6	111.7	153.1	414.8	1120.7	1911.8	2155.6	2208.0
30°	66.2	73.2	84.0	97.1	127.3	319.8	1141.1	2079.1	2310.6	2368.8
32.5°	57.5	64.0	74.6	85.1	104.8	243.8	1126.9	2202.1	2461.2	2498.3
35°	49.1	56.0	64.8	74.6	90.6	196.9	1056.0	2340.3	2617.3	2646.4
37.5°	42.2	48.0	57.1	64.8	81.8	157.5	970.1	2464.8	2792.3	2834.2
40°	35.7	41.5	50.5	57.5	75.4	124.0	892.6	2603.1	2976.8	3028.4
42.5°	29.1	36.0	44.1	55.3	64.8	94.6	798.7	2715.2	3115.4	3180.2
45°	23.3	30.9	39.7	54.9	56.4	72.1	708.0	2802.5	3238.0	3296.2
47.5°	18.6	26.2	38.2	51.3	46.2	57.1	656.4	2893.8	3339.9	3386.5
50°	14.9	21.9	40.0	45.1	38.6	48.4	655.0	2995.7	3392.7	3423.6
52.5°	12.0	17.8	33.8	34.6	32.7	42.6	694.2	3110.3	3446.5	3472.0
55°	10.2	14.9	22.2	25.5	29.4	38.6	723.8	3286.8	3574.9	3599.0
57.5°	8.0	12.7	17.1	20.4	26.2	35.3	727.7	3422.9	3737.6	3753.2
59°	6.9	10.9	15.3	18.2	24.1	33.1	711.3	3431.2	3748.2	3773.2
60°	5.8	9.8	13.5	17.1	22.2	31.3	693.5	3370.5	3708.9	3736.9
62.5°	4.4	7.7	9.8	13.8	18.2	26.9	609.1	3158.4	3558.6	3578.2
65°	2.9	5.5	7.3	10.2	14.2	23.3	496.3	2883.3	3326.4	3370.5
67.5°	1.9	4.0	5.8	7.7	11.6	19.7	353.6	2472.5	3001.5	3029.9
70°	1.1	2.5	4.4	6.2	9.1	15.6	209.9	1954.3	2497.2	2503.0
72.5°	0.8	1.9	2.9	4.4	7.3	14.2	101.8	1273.9	1823.3	1892.8
75°	0.3	1.1	1.9	3.3	5.8	11.6	48.8	851.1	1326.7	1346.7
77.5°	0.0	0.3	1.1	2.2	4.4	9.1	28.3	558.9	904.6	925.3
80°	0.0	0.0	0.8	1.9	3.3	5.8	17.1	329.7	548.0	558.2
82.5°	0.0	0.0	0.3	1.4	2.2	4.4	8.7	144.8	358.8	362.4
85°	0.0	0.0	0.3	1.4	1.9	2.9	3.3	19.7	159.4	162.3
87.5°	0.0	0.0	0.3	1.9	1.9	1.9	1.9	1.1	13.5	16.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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