

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: P948852

Luminaire Tested: **GALN-SB3D-740-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948852  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3D-740-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

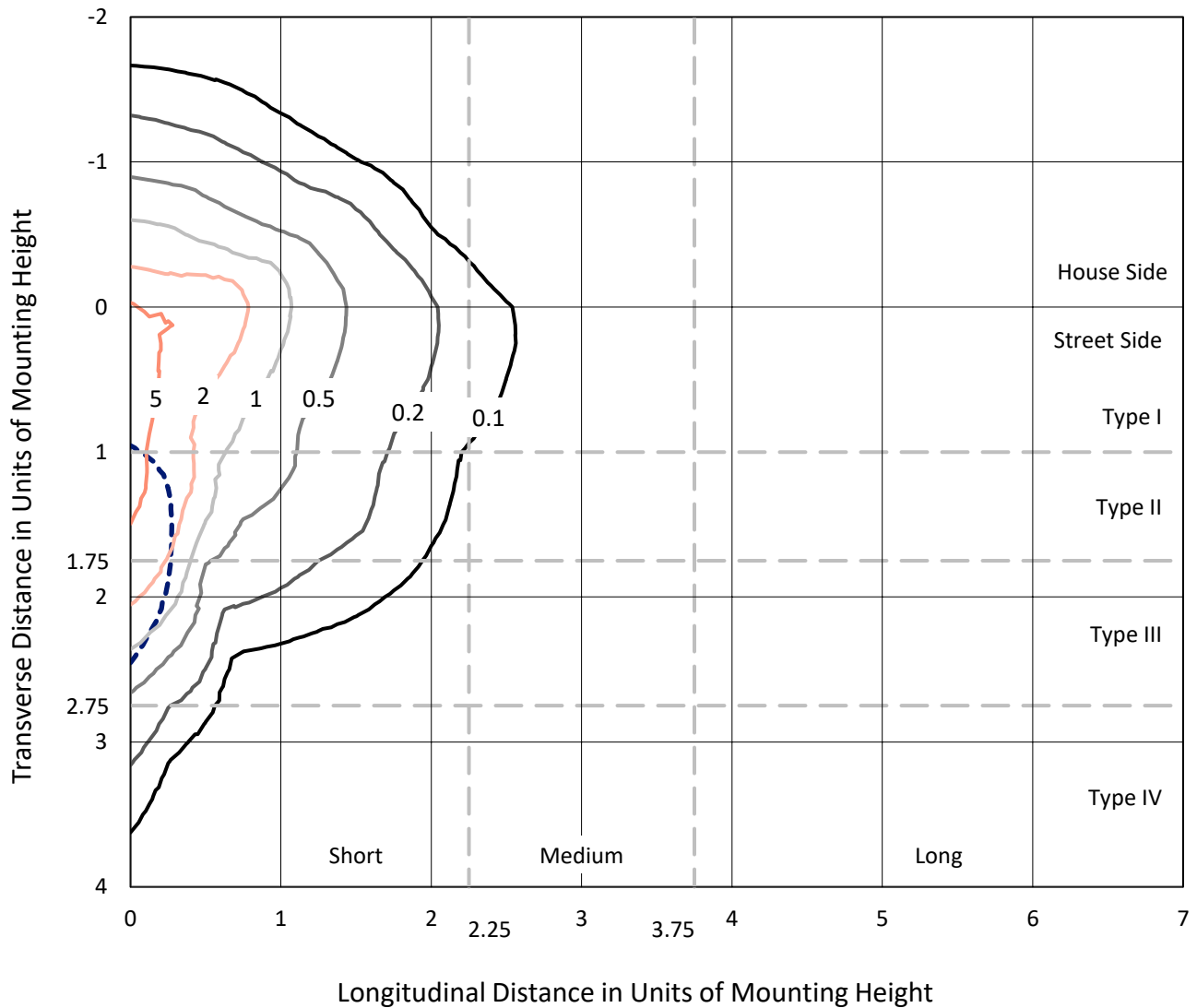
Lumens per Lamp: N/A  
Luminaire Lumens: 24652 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

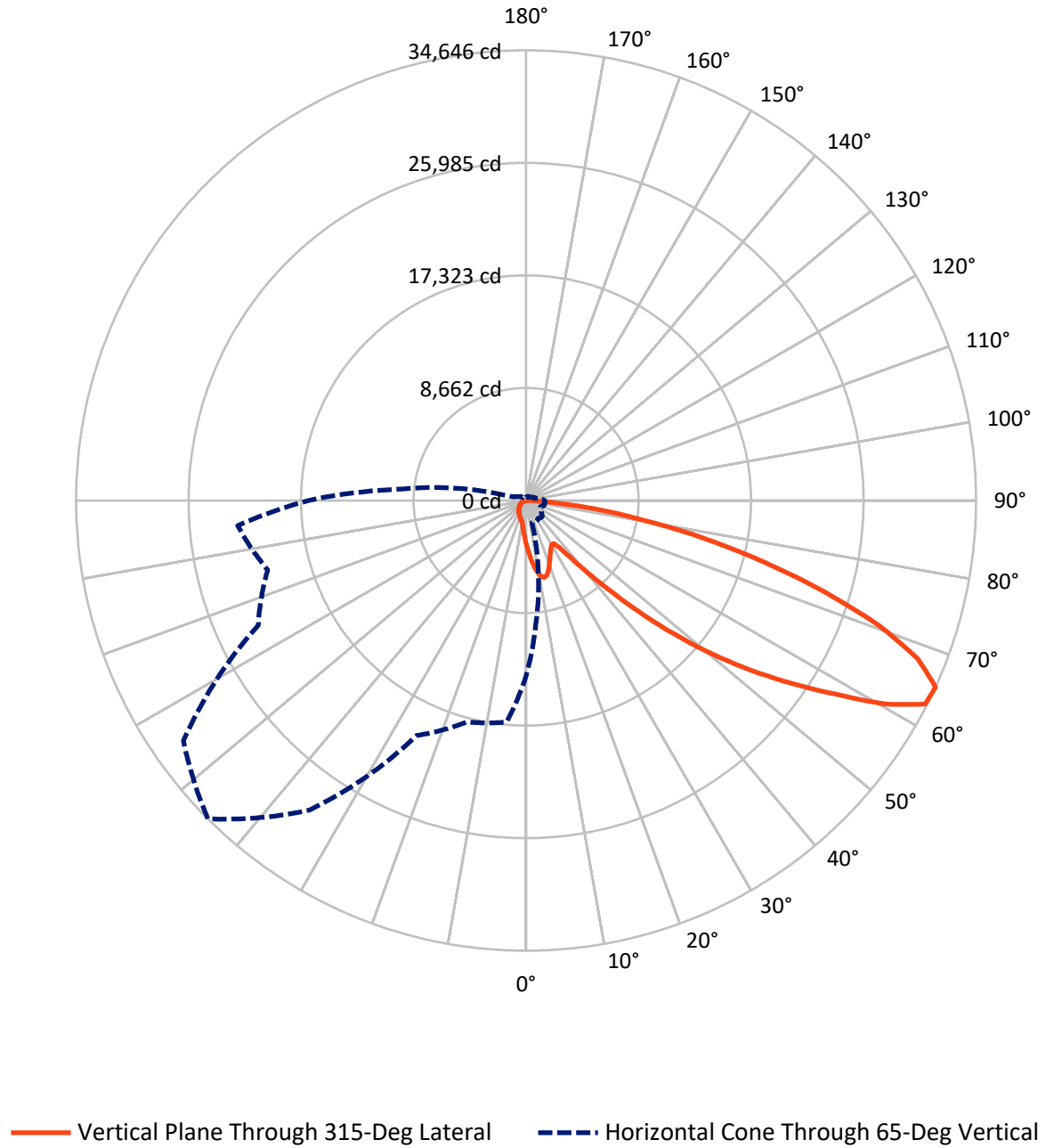
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3452.3	0.0	3452.3
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	21199.7	0.0	21199.7
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	24652.0	0.0	24652.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.1	1.4
10°-20°	1007.4	4.1
20°-30°	1484.2	6.0
30°-40°	1906.8	7.7
40°-50°	3083.8	12.5
50°-60°	5407.7	21.9
60°-70°	6766.5	27.4
70°-80°	3954.0	16.0
80°-90°	705.5	2.9
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°	24652.0	100.0
0°-180°	24652.0	100.0

**Coefficient of Utilization**



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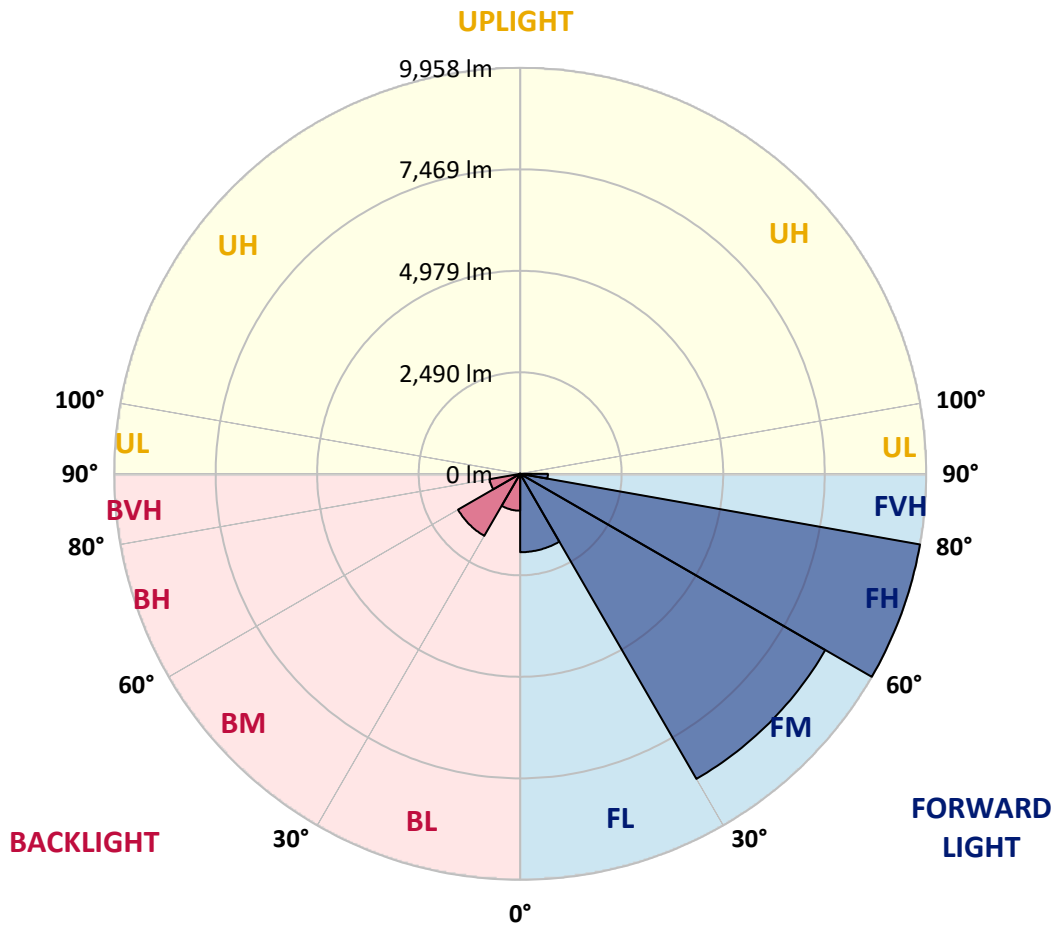
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1922.8	7.8			
FM (30°-60°)	8640.3	35.0			
FH (60°-80°)	9958.3	40.4			G4/12000
FVH (80°-90°)	678.4	2.8			G4/750
BL (0°-30°)	904.9	3.7	B2/1000		
BM (30°-60°)	1758.0	7.1	B2/2500		
BH (60°-80°)	762.3	3.1	B2/1000		G2/1000
BVH (80°-90°)	27.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3413.5	3413.5	3413.5	3413.5	3413.5	3413.5	3413.5	3413.5	3413.5	3413.5
2.5°	3856.8	3790.5	3751.5	3654.7	3557.9	3479.7	3374.5	3304.8	3221.6	3141.8
5°	4298.3	4191.3	4062.3	3885.6	3724.3	3559.6	3399.9	3242.0	3075.6	2922.7
7.5°	4671.9	4517.4	4289.8	4055.5	3850.0	3651.3	3464.5	3255.6	3053.5	2814.0
10°	4957.2	4760.2	4461.3	4154.0	3917.9	3717.5	3535.8	3359.2	3155.4	2866.7
12.5°	5130.5	4919.9	4564.9	4204.9	3934.9	3710.7	3569.8	3491.6	3411.8	3124.8
15°	5257.8	5030.3	4638.0	4240.6	3895.8	3620.7	3517.1	3595.2	3686.9	3503.5
17.5°	5390.3	5150.8	4733.1	4255.9	3790.5	3445.8	3401.6	3603.7	3816.0	3807.5
20°	5516.0	5278.2	4816.3	4245.7	3620.7	3233.5	3272.6	3530.7	3776.9	3880.5
22.5°	5660.3	5409.0	4896.1	4206.6	3399.9	3034.8	3157.1	3415.2	3630.9	3753.2
25°	5836.9	5573.7	5008.2	4148.9	3162.2	2870.1	3039.9	3281.0	3456.0	3540.9
27.5°	6027.1	5770.7	5157.6	4118.3	2970.3	2752.9	2907.4	3121.4	3277.7	3337.1
30°	6263.2	6000.0	5334.3	4084.3	2844.6	2685.0	2769.9	2936.3	3089.1	3148.6
32.5°	6521.3	6254.7	5504.1	4002.8	2768.2	2634.0	2635.7	2741.0	2880.3	2951.6
35°	6844.0	6560.4	5685.8	3824.5	2707.0	2574.6	2504.9	2555.9	2671.4	2756.3
37.5°	7304.2	6961.2	5908.3	3569.8	2617.0	2482.9	2367.4	2379.3	2467.6	2561.0
40°	7939.4	7499.5	6169.8	3304.8	2488.0	2353.8	2216.2	2211.1	2275.7	2367.4
42.5°	8798.7	8211.1	6484.0	3051.8	2364.0	2197.6	2056.6	2048.1	2099.1	2178.9
45°	9933.2	9121.4	6869.5	2834.4	2267.2	2044.7	1905.5	1902.1	1944.5	2014.1
47.5°	11385.2	10386.6	7255.0	2686.7	2216.2	1924.1	1781.5	1788.3	1825.6	1888.5
50°	13265.2	12035.6	7372.2	2611.9	2216.2	1859.6	1671.1	1705.1	1735.6	1783.2
52.5°	15518.7	13618.4	6985.0	2544.0	2229.8	1868.1	1577.7	1650.7	1672.8	1713.5
55°	17607.6	14394.5	6005.1	2450.6	2233.2	1920.7	1497.9	1606.6	1647.3	1662.6
57.5°	18820.2	14127.9	4855.3	2292.7	2219.6	1956.4	1446.9	1552.2	1630.3	1640.5
60°	18589.2	13192.1	3574.8	2172.1	2119.4	1942.8	1431.6	1469.0	1593.0	1608.3
62.5°	16809.4	11622.9	2481.2	2078.7	1898.7	1883.4	1426.5	1338.2	1511.5	1548.8
65°	13511.4	9150.3	1752.6	1790.0	1664.3	1754.3	1399.4	1202.4	1413.0	1463.9
67.5°	9802.4	6191.9	1265.2	1450.3	1508.1	1545.4	1338.2	1103.9	1300.9	1368.8
70°	6290.4	3343.9	888.2	957.8	1270.3	1312.8	1232.9	1015.6	1187.1	1265.2
72.5°	4471.5	1975.1	638.5	670.8	1020.7	1093.7	1085.2	917.1	1054.6	1149.7
75°	3085.7	1088.6	431.4	478.9	740.4	888.2	837.2	788.0	893.3	990.1
77.5°	1934.3	487.4	258.1	332.9	485.7	698.0	574.0	609.7	696.3	786.3
80°	1076.7	188.5	144.4	220.8	264.9	507.8	317.6	392.3	512.9	577.4
82.5°	234.4	23.8	64.5	95.1	103.6	295.5	168.1	227.6	322.7	317.6
85°	0.0	0.0	11.9	13.6	6.8	127.4	61.1	74.7	105.3	98.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
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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**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
3413.5	0°	3413.5	3413.5	3413.5	3413.5	3413.5	3413.5	3413.5	3413.5	3413.5	3413.5
3070.5	2.5°	3056.9	2973.7	2912.5	2882.0	2856.5	2880.3	2893.8	2893.8	2951.6	2985.6
2829.3	5°	2769.9	2620.4	2506.6	2430.2	2384.4	2399.6	2416.6	2435.3	2508.3	2557.6
2686.7	7.5°	2571.2	2341.9	2168.7	2061.7	2005.7	2014.1	2026.0	2041.3	2112.6	2161.9
2707.0	10°	2533.8	2204.3	1959.8	1818.8	1750.9	1739.0	1732.2	1727.1	1769.6	1807.0
2938.0	12.5°	2686.7	2211.1	1869.8	1698.3	1615.1	1579.4	1538.6	1506.4	1513.2	1536.9
3287.8	15°	2960.1	2297.8	1840.9	1635.4	1531.8	1472.4	1424.8	1385.8	1377.3	1385.8
3593.5	17.5°	3272.6	2414.9	1837.5	1581.1	1452.0	1390.9	1351.8	1316.2	1304.3	1306.0
3765.1	20°	3479.7	2508.3	1827.3	1519.9	1375.6	1321.3	1287.3	1251.6	1239.7	1243.1
3717.5	22.5°	3500.1	2557.6	1812.0	1452.0	1299.2	1253.3	1219.4	1187.1	1185.4	1185.4
3539.2	25°	3389.7	2557.6	1779.8	1390.9	1226.1	1185.4	1154.8	1115.8	1122.6	1125.9
3337.1	27.5°	3218.2	2496.4	1718.6	1341.6	1163.3	1120.9	1090.3	1054.6	1063.1	1068.2
3148.6	30°	3048.4	2418.3	1645.6	1285.6	1103.9	1054.6	1032.5	1002.0	1005.4	1012.2
2961.8	32.5°	2890.4	2335.1	1559.0	1239.7	1044.4	995.2	978.2	944.2	949.3	956.1
2778.4	35°	2734.2	2243.4	1457.1	1185.4	990.1	940.8	927.3	888.2	891.6	901.8
2594.9	37.5°	2566.1	2146.6	1373.9	1131.0	937.4	886.5	872.9	832.1	835.5	847.4
2404.7	40°	2389.5	2051.5	1292.4	1073.3	881.4	830.5	818.6	774.4	777.8	791.4
2217.9	42.5°	2211.1	1947.9	1229.5	998.6	823.7	769.3	757.4	716.7	721.8	737.0
2054.9	45°	2046.4	1823.9	1188.8	915.4	769.3	708.2	696.3	658.9	669.1	686.1
1917.3	47.5°	1905.5	1696.6	1171.8	845.7	711.6	645.3	635.2	604.6	621.6	640.2
1800.2	50°	1784.9	1574.3	1149.7	774.4	657.2	591.0	580.8	560.4	582.5	601.2
1720.3	52.5°	1698.3	1435.0	1102.2	709.9	609.7	545.1	541.7	531.6	551.9	568.9
1660.9	55°	1623.5	1290.7	1025.8	653.8	567.2	506.1	509.5	504.4	521.4	535.0
1625.2	57.5°	1555.6	1165.0	929.0	609.7	521.4	472.1	482.3	475.5	484.0	492.5
1587.9	60°	1474.1	1037.6	813.5	560.4	467.0	438.2	450.0	431.4	429.7	433.1
1519.9	62.5°	1353.5	866.1	692.9	499.3	419.5	400.8	405.9	370.2	343.0	343.0
1419.7	65°	1185.4	696.3	580.8	431.4	365.1	349.8	346.4	295.5	258.1	254.7
1311.1	67.5°	990.1	572.3	482.3	363.4	304.0	293.8	297.2	259.8	222.5	219.1
1202.4	70°	806.7	473.8	388.9	290.4	234.4	244.6	259.8	222.5	186.8	181.7
1075.0	72.5°	655.5	377.0	304.0	222.5	173.2	202.1	220.8	181.7	147.7	144.4
917.1	75°	506.1	276.8	217.4	151.1	125.7	156.2	173.2	132.5	105.3	100.2
709.9	77.5°	338.0	171.5	122.3	95.1	74.7	107.0	115.5	69.6	61.1	59.4
516.3	80°	205.5	79.8	52.6	45.9	25.5	39.1	45.9	28.9	32.3	34.0
275.1	82.5°	103.6	22.1	8.5	1.7	0.0	0.0	13.6	6.8	13.6	17.0
74.7	85°	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	8.5
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

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**CANDELA DISTRIBUTION (continued):**

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
3413.5	0°	3413.5	3413.5	3413.5	3413.5	3413.5	3413.5	3413.5	3413.5	3413.5	3413.5
2999.1	2.5°	3094.2	3165.6	3233.5	3342.2	3454.3	3564.7	3676.7	3785.4	3824.5	3853.4
2589.9	5°	2737.6	2871.8	3028.0	3243.7	3474.7	3712.4	3953.6	4174.3	4274.5	4342.5
2204.3	7.5°	2369.1	2544.0	2768.2	3092.5	3454.3	3833.0	4211.7	4559.8	4721.2	4851.9
1840.9	10°	2004.0	2194.2	2477.8	2848.0	3337.1	3880.5	4403.6	4882.5	5091.4	5256.1
1579.4	12.5°	1683.0	1861.3	2158.5	2567.8	3153.7	3843.2	4514.0	5089.7	5335.9	5521.1
1392.6	15°	1457.1	1582.8	1846.0	2287.6	2936.3	3722.6	4520.8	5188.2	5458.2	5651.8
1314.5	17.5°	1331.4	1373.9	1545.4	2002.3	2695.1	3564.7	4457.9	5222.2	5510.9	5690.9
1244.8	20°	1263.5	1270.3	1317.9	1632.0	2386.1	3416.9	4398.5	5256.1	5560.1	5711.3
1195.6	22.5°	1209.2	1209.2	1221.1	1334.8	1987.0	3240.3	4379.8	5315.6	5628.1	5721.5
1139.5	25°	1159.9	1159.9	1163.3	1193.9	1574.3	2970.3	4367.9	5407.3	5721.5	5746.9
1083.5	27.5°	1109.0	1110.7	1110.7	1127.6	1268.6	2603.4	4317.0	5526.2	5833.5	5780.9
1029.1	30°	1058.0	1061.4	1061.4	1073.3	1122.6	2173.8	4216.8	5668.8	5979.6	5825.0
974.8	32.5°	1007.1	1010.5	1010.5	1020.7	1056.3	1735.6	4091.1	5799.6	6127.3	5843.7
922.2	35°	954.4	959.5	956.1	969.7	1007.1	1380.7	3931.5	5930.3	6287.0	5903.2
871.2	37.5°	901.8	905.2	903.5	917.1	959.5	1192.2	3746.4	6028.8	6504.4	6035.6
816.9	40°	849.1	847.4	847.4	862.7	908.6	1137.8	3513.7	6185.1	6816.8	6268.3
762.5	42.5°	794.8	794.8	791.4	808.4	864.4	1097.1	3291.2	6465.3	7272.0	6638.5
711.6	45°	745.5	743.8	737.0	752.3	822.0	1025.8	3213.1	6988.4	7944.5	7238.0
660.6	47.5°	698.0	696.3	679.3	692.9	771.0	961.2	3505.2	7844.3	8876.8	8119.4
619.9	50°	655.5	657.2	625.0	636.8	720.1	912.0	4138.7	8955.0	10114.9	9306.5
585.9	52.5°	616.5	616.5	574.0	580.8	657.2	867.8	4741.6	10159.0	11748.6	10962.3
550.2	55°	577.4	574.0	526.5	529.9	594.4	805.0	4831.6	11334.2	13976.7	13453.7
511.2	57.5°	533.3	526.5	482.3	482.3	536.7	759.1	4187.9	12237.7	16741.5	17115.1
438.2	60°	478.9	473.8	444.9	436.5	490.8	799.9	2955.0	12343.0	18524.7	21984.0
348.1	62.5°	409.3	416.1	400.8	388.9	446.6	830.5	1750.9	11495.6	18093.3	23532.9
270.0	65°	322.7	349.8	346.4	338.0	490.8	699.7	1034.2	9868.6	16770.4	22282.9
236.1	67.5°	275.1	293.8	288.7	288.7	514.6	531.6	650.4	7710.1	14949.8	20800.4
197.0	70°	234.4	253.0	234.4	234.4	388.9	322.7	450.0	5383.5	12984.9	19159.8
157.9	72.5°	193.6	212.3	191.9	178.3	310.8	241.2	329.5	3364.3	11120.2	17451.4
112.1	75°	147.7	169.8	154.5	137.6	205.5	180.0	249.6	1954.7	9213.1	14931.1
67.9	77.5°	93.4	122.3	115.5	96.8	151.1	130.8	180.0	1163.3	7108.9	11667.1
40.8	80°	57.7	62.8	64.5	61.1	86.6	88.3	122.3	662.3	4865.5	8131.3
25.5	82.5°	37.4	37.4	28.9	32.3	42.5	50.9	69.6	249.6	2859.9	4950.4
15.3	85°	27.2	23.8	15.3	15.3	20.4	25.5	27.2	76.4	1159.9	1954.7
6.8	87.5°	13.6	11.9	5.1	6.8	10.2	8.5	6.8	3.4	292.1	625.0
0.0	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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 CATALOG NUMBER: GALN-SB3D-740-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
3413.5	0°	3413.5	3413.5	3413.5	3413.5	3413.5	3413.5	3413.5	3413.5
3917.9	2.5°	3951.9	4004.5	4007.9	4007.9	3962.1	3960.4	3867.0	3856.8
4495.3	5°	4653.2	4687.2	4695.7	4678.7	4587.0	4519.1	4337.4	4298.3
5084.6	7.5°	5295.2	5363.1	5363.1	5322.4	5172.9	5033.7	4770.4	4671.9
5572.0	10°	5808.1	5886.2	5869.2	5786.0	5597.5	5405.6	5086.3	4957.2
5867.5	12.5°	6057.7	6137.5	6093.4	5998.3	5814.9	5612.8	5276.5	5130.5
5952.4	15°	6052.6	6030.5	5984.7	5972.8	5884.5	5731.6	5417.5	5257.8
5899.8	17.5°	5836.9	5650.1	5614.5	5733.3	5845.4	5808.1	5539.7	5390.3
5774.1	20°	5495.6	5169.5	5137.3	5364.8	5684.1	5847.1	5653.5	5516.0
5592.4	22.5°	5135.6	4784.0	4709.3	4960.6	5441.2	5859.0	5797.9	5660.3
5392.0	25°	4794.2	4441.0	4366.2	4600.6	5171.2	5838.6	5954.1	5836.9
5200.1	27.5°	4508.9	4167.5	4097.9	4332.3	4911.4	5780.9	6110.4	6027.1
5009.9	30°	4288.1	3972.2	3921.3	4147.2	4687.2	5709.6	6309.1	6263.2
4833.3	32.5°	4159.1	3928.1	3946.8	4131.9	4566.6	5631.4	6499.3	6521.3
4746.7	35°	4286.4	4296.6	4459.6	4536.1	4678.7	5619.6	6757.4	6844.0
4850.2	37.5°	4919.9	5273.1	5611.1	5548.2	5227.3	5757.1	7142.9	7304.2
5302.0	40°	5998.3	6723.4	7272.0	7032.5	6224.1	6178.3	7698.2	7939.4
6103.6	42.5°	7316.1	8545.7	9449.1	8807.2	7509.7	6915.3	8491.3	8798.7
7073.3	45°	8707.0	10792.5	12215.6	10880.8	8880.2	7947.9	9692.0	9933.2
7981.8	47.5°	10172.6	13523.3	15364.2	13180.2	10150.5	9123.1	11329.1	11385.2
8842.9	50°	11775.8	16517.3	18573.9	15478.0	11376.7	10469.8	13329.7	13265.2
9846.5	52.5°	13302.5	19596.3	21715.7	17785.9	12453.4	12140.9	15651.2	15518.7
11218.7	55°	14759.6	22673.5	24876.2	20003.9	13468.9	14348.6	18409.2	17607.6
13197.2	57.5°	16449.4	25440.0	28133.5	22232.0	14888.7	17215.3	21493.2	18820.2
16986.0	60°	18947.5	28583.5	31817.0	25285.5	17588.9	20228.0	22598.8	18589.2
21523.8	62.5°	22136.9	31474.0	34495.2	28277.8	20301.1	20795.3	20970.2	16809.4
20598.3	65°	22756.8	32205.9	34646.3	29077.7	19951.2	17639.9	17120.2	13511.4
18399.0	67.5°	21112.8	30883.0	32533.7	27588.3	17648.4	13632.0	12847.4	9802.4
16955.5	70°	19268.5	28361.0	28851.8	25056.2	15522.1	10026.6	8676.4	6290.4
15967.1	72.5°	17378.3	24996.8	23981.2	21759.9	13642.2	7300.8	6258.1	4471.5
14559.2	75°	15133.2	20572.8	18889.8	18079.7	11295.2	5729.9	4527.6	3085.7
12523.0	77.5°	12118.8	14481.1	14031.1	14014.1	8487.9	4186.2	3021.2	1934.3
9783.7	80°	8549.1	9398.2	9168.9	10554.7	5694.3	3036.5	1818.8	1076.7
6810.0	82.5°	4138.7	5196.7	5334.3	6285.3	2769.9	1786.6	419.5	234.4
2662.9	85°	1620.1	2506.6	2114.3	2386.1	777.8	497.6	10.2	0.0
438.2	87.5°	181.7	290.4	266.6	210.6	95.1	20.4	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)