

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: P458612

Luminaire Tested: **GALN-SA1D-735-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458612  
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-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 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: 5237 lumens  
Efficiency: N/A  
Efficacy: 80.6 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

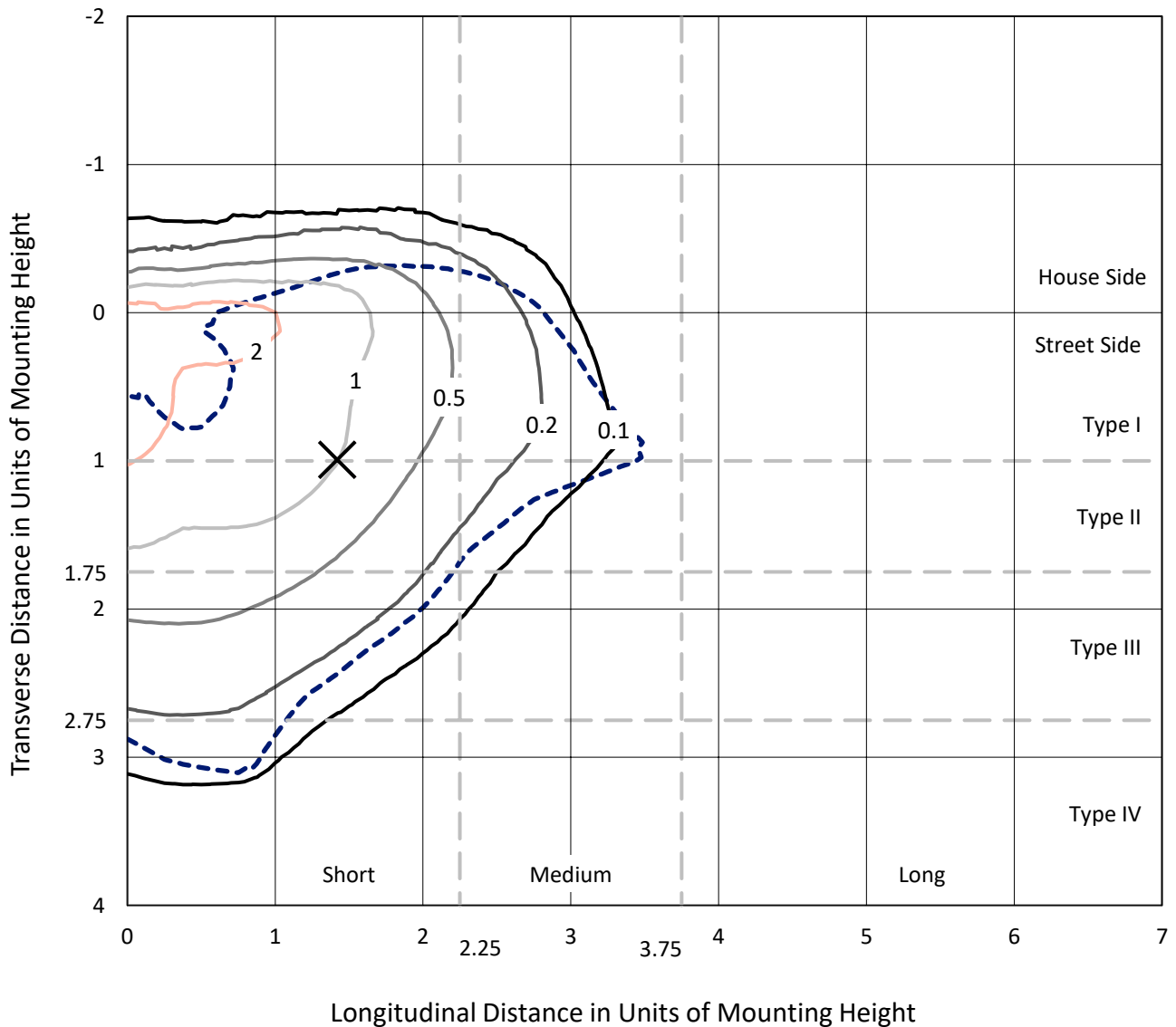
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

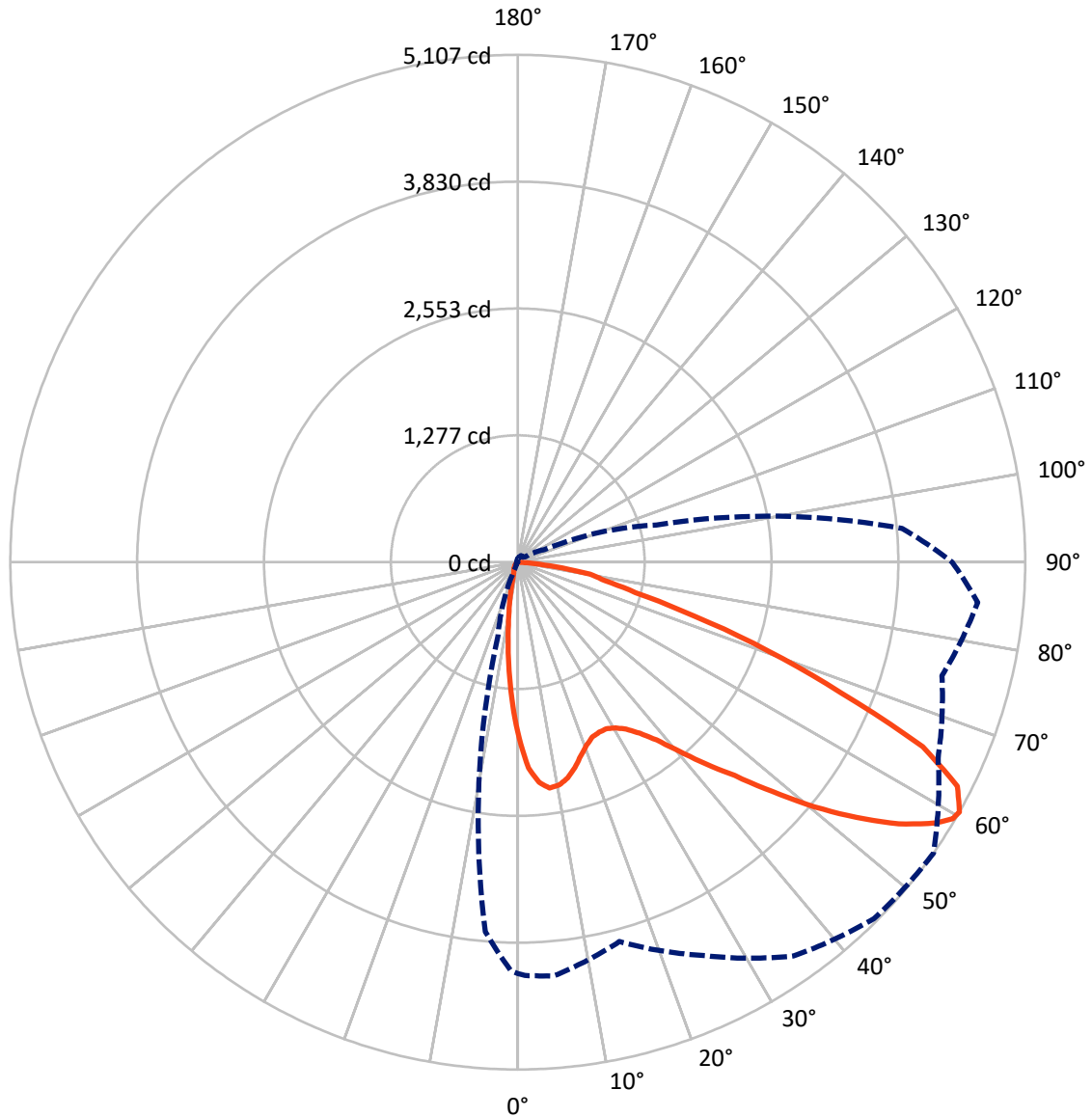
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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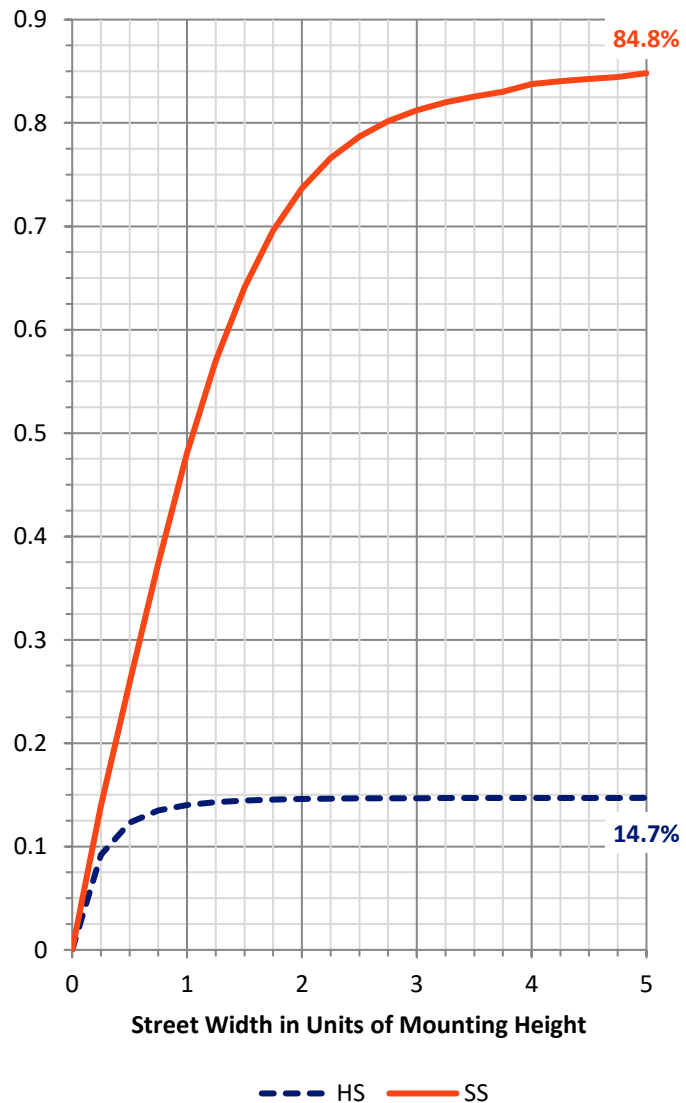
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	777.2	0.0	777.2
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	4459.8	0.0	4459.8
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	5237.0	0.0	5237.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.3	2.5
10°-20°	258.6	4.9
20°-30°	382.7	7.3
30°-40°	570.5	10.9
40°-50°	835.5	16.0
50°-60°	1206.3	23.0
60°-70°	1268.9	24.2
70°-80°	522.0	10.0
80°-90°	61.1	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°	5237.0	100.0
0°-180°	5237.0	100.0



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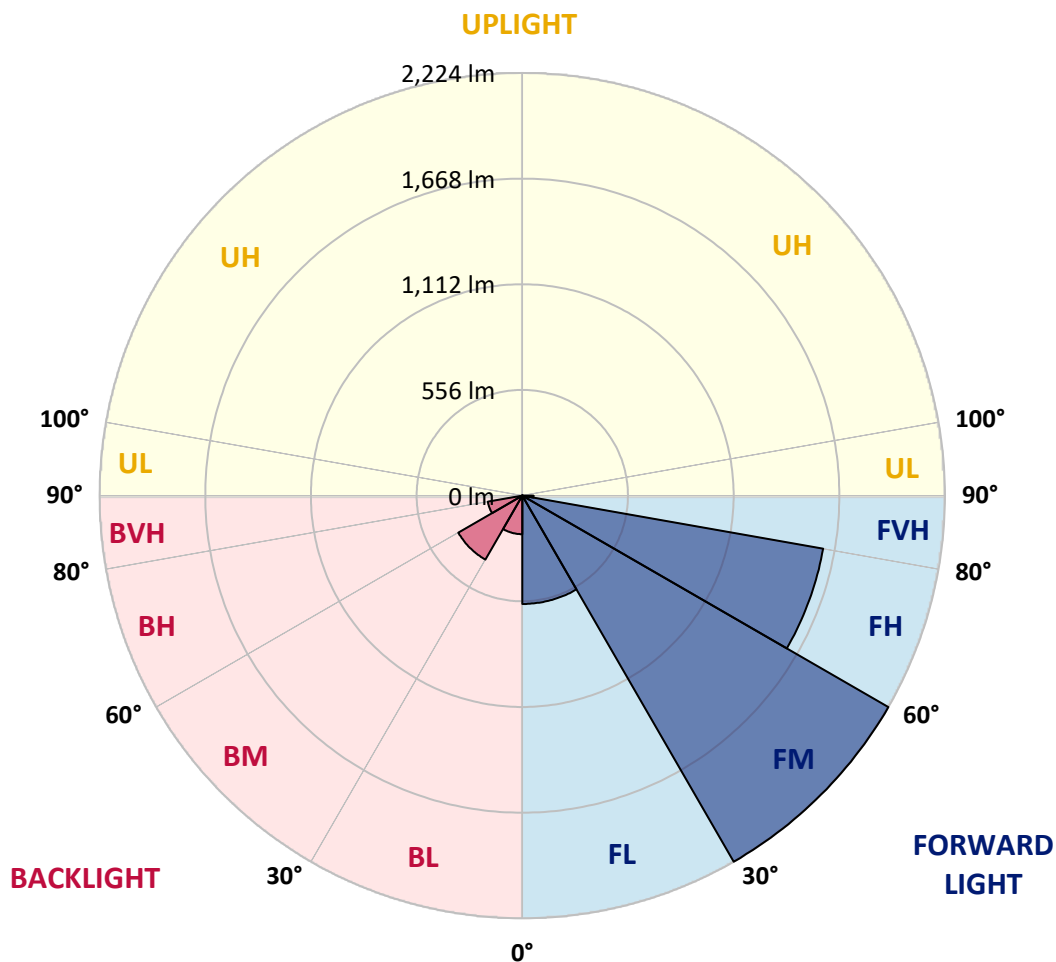
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	569.9	10.9			
FM (30°-60°)	2223.6	42.5			
FH (60°-80°)	1606.9	30.7			G1/1800
FVH (80°-90°)	59.3	1.1			G1/100
BL (0°-30°)	202.8	3.9	B1/500		
BM (30°-60°)	388.7	7.4	B1/1000		
BH (60°-80°)	184.0	3.5	B1/500		G1/500
BVH (80°-90°)	1.8	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°	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2
2.5°	1937.3	1934.1	1962.7	2009.4	2056.6	2081.2	2076.4	2074.3	2035.2	2006.6	1946.6
5°	1933.3	1949.8	2001.0	2127.6	2223.5	2269.9	2283.6	2225.9	2149.7	2039.3	1903.0
7.5°	1817.6	1838.1	1921.6	2119.5	2290.0	2390.8	2387.2	2294.8	2137.6	1966.7	1772.4
10°	1674.1	1698.3	1796.2	2036.5	2257.8	2390.8	2398.0	2281.1	2085.6	1866.3	1662.0
12.5°	1572.9	1601.5	1709.9	1959.1	2174.7	2305.7	2314.2	2229.5	2046.5	1827.7	1601.9
15°	1538.6	1565.6	1675.7	1920.0	2086.4	2157.0	2155.0	2146.1	2031.2	1836.9	1605.1
17.5°	1597.5	1619.7	1743.8	1937.7	2003.8	1996.6	2007.0	2049.8	2034.4	1914.7	1706.7
20°	1749.5	1772.0	1905.5	1992.1	1940.5	1894.6	1899.4	1970.8	2064.3	2061.0	1865.5
22.5°	1958.7	1997.0	2117.9	2097.7	1932.1	1831.3	1821.2	1913.9	2115.1	2229.5	2080.0
25°	2223.5	2262.2	2356.5	2266.2	1973.6	1816.4	1807.1	1896.6	2176.7	2394.0	2321.4
27.5°	2446.0	2475.4	2569.4	2430.3	2034.8	1822.8	1807.5	1899.0	2226.7	2533.9	2525.0
30°	2624.2	2645.9	2701.2	2506.9	2087.7	1851.0	1833.3	1934.5	2248.9	2602.0	2689.9
32.5°	2767.7	2804.4	2821.7	2588.7	2163.4	1904.2	1874.0	2002.6	2302.9	2686.3	2862.8
35°	2931.7	2974.1	2951.9	2666.9	2263.4	1987.3	1950.2	2113.0	2384.7	2764.1	3063.6
37.5°	3139.7	3188.5	3101.8	2749.1	2369.0	2112.2	2094.9	2268.2	2508.9	2875.3	3278.8
40°	3355.0	3383.2	3247.4	2849.1	2498.8	2294.0	2310.6	2498.8	2671.3	3008.7	3507.8
42.5°	3523.1	3549.7	3396.9	2933.0	2631.4	2509.7	2578.6	2777.0	2857.6	3145.4	3678.7
45°	3651.7	3674.2	3500.5	3024.5	2810.4	2822.1	2952.3	3063.6	3044.2	3228.8	3810.5
47.5°	3751.6	3771.0	3580.3	3122.8	3078.5	3204.2	3403.4	3450.5	3237.7	3319.1	3929.8
50°	3792.8	3798.4	3605.3	3248.2	3382.8	3691.2	3898.8	3870.2	3459.4	3419.5	4056.8
52.5°	3846.4	3845.2	3676.7	3367.5	3669.0	4126.5	4333.7	4268.8	3710.1	3569.8	4199.5
55°	3987.1	3988.7	3829.4	3536.8	3912.9	4478.0	4699.7	4652.6	3974.6	3823.8	4366.0
57.5°	4158.0	4164.0	4046.7	3734.7	4145.9	4732.8	4973.0	4954.9	4332.1	4106.4	4523.2
59°	4180.1	4192.2	4149.5	3874.2	4284.1	4811.0	5066.6	5084.3	4523.6	4292.6	4608.2
60°	4139.8	4160.0	4179.3	3953.2	4365.2	4839.2	5072.2	5106.9	4667.5	4419.2	4646.9
62.5°	3964.1	3995.9	4093.1	4196.3	4466.3	4751.3	4892.0	4964.6	4845.7	4751.7	4650.6
65°	3733.9	3750.4	3890.7	4239.4	4270.0	4341.0	4384.5	4477.6	4631.6	4879.9	4484.1
67.5°	3356.6	3405.4	3577.1	3989.1	3690.8	3606.9	3596.0	3503.3	3903.2	4574.4	4073.7
70°	2772.9	2794.7	3006.3	3270.3	2785.4	2656.4	2708.0	2673.4	3025.7	3937.9	3278.8
72.5°	2096.9	2146.1	2352.9	2606.8	1895.4	1728.1	1870.4	1857.5	2272.7	3164.7	2252.5
75°	1491.9	1523.7	1787.3	2040.1	1327.4	1124.6	1175.8	1223.8	1586.6	2498.8	1331.0
77.5°	1025.1	1052.5	1250.4	1349.2	968.2	927.5	848.5	894.9	1039.6	1482.6	724.4
80°	618.4	617.1	747.3	771.5	674.4	783.2	657.1	737.7	628.4	634.5	280.6
82.5°	401.5	397.5	457.1	498.2	375.3	394.6	264.8	381.7	409.5	177.0	88.7
85°	179.8	187.4	219.7	289.8	164.5	87.5	54.0	117.3	174.5	89.1	0.0
87.5°	18.5	14.5	38.7	70.5	22.6	2.4	8.1	4.0	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°	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2
2.5°	1918.8	1895.4	1825.6	1760.3	1704.3	1635.8	1591.4	1521.7	1479.4	1466.5	1468.5
5°	1841.8	1774.4	1641.8	1535.8	1417.7	1350.4	1248.0	1149.6	1096.4	1076.7	1067.8
7.5°	1680.5	1608.4	1448.3	1281.9	1155.3	1037.2	961.0	874.3	815.1	766.3	757.8
10°	1560.8	1466.1	1267.7	1088.8	988.8	900.1	823.9	737.3	667.5	611.9	596.6
12.5°	1489.0	1383.0	1161.7	1011.8	917.1	826.0	726.8	626.4	555.1	495.0	467.2
15°	1476.1	1353.2	1131.9	956.6	839.7	729.6	597.8	489.4	416.0	359.2	341.8
17.5°	1553.9	1406.8	1127.5	898.9	738.5	582.5	445.4	355.5	272.9	241.1	228.6
20°	1692.6	1501.5	1127.1	832.0	634.5	448.6	312.8	231.8	198.3	183.0	175.8
22.5°	1881.7	1630.5	1148.4	774.4	526.4	330.9	223.3	184.6	165.3	152.8	150.0
25°	2112.6	1821.6	1200.8	735.3	443.8	259.6	184.2	158.0	141.9	136.2	133.8
27.5°	2317.8	2004.6	1258.5	694.9	384.6	229.8	170.9	144.7	131.8	127.4	123.8
30°	2494.8	2170.7	1286.3	641.7	337.0	210.4	173.3	154.8	137.9	124.6	118.5
32.5°	2642.3	2298.1	1304.4	593.4	296.7	172.1	137.1	119.7	112.1	107.2	103.2
35°	2826.9	2435.9	1293.5	566.0	276.1	156.8	125.0	103.2	90.3	80.6	76.6
37.5°	3020.4	2573.8	1274.6	543.4	266.9	145.5	118.9	98.0	83.8	73.8	68.5
40°	3220.8	2701.6	1252.4	522.4	258.4	138.3	115.3	93.5	79.4	68.5	62.9
42.5°	3404.2	2826.1	1243.6	508.7	244.7	139.5	112.5	91.5	75.0	63.7	58.9
45°	3552.5	2944.2	1255.7	501.5	229.8	137.5	113.3	89.1	71.3	60.5	55.6
47.5°	3710.9	3111.1	1294.8	494.2	215.3	127.8	119.3	88.7	69.7	58.4	53.2
50°	3895.1	3324.8	1384.2	476.5	197.5	117.3	127.0	88.3	67.7	56.0	50.8
52.5°	4140.6	3567.4	1476.6	445.4	171.7	107.2	121.3	87.1	63.7	53.2	48.0
55°	4361.1	3823.0	1554.8	408.7	139.1	92.7	109.2	81.8	56.8	48.4	43.5
57.5°	4452.2	3967.3	1552.3	358.0	111.3	81.4	89.9	75.0	49.6	42.7	38.7
59°	4418.8	3949.2	1500.3	320.5	101.6	75.4	74.6	74.2	46.4	38.7	35.5
60°	4371.6	3883.1	1444.3	301.9	95.5	71.3	68.5	73.4	43.5	36.3	33.1
62.5°	4191.0	3608.9	1258.5	270.5	87.5	60.5	54.8	62.1	38.7	31.4	28.6
65°	3929.4	3187.7	1065.4	261.6	85.1	50.0	45.6	44.3	33.1	26.6	24.2
67.5°	3419.1	2697.5	863.0	255.6	85.9	41.9	39.9	33.5	27.4	22.2	20.6
70°	2737.4	2103.4	706.6	248.7	86.7	34.3	33.5	26.6	22.2	18.5	16.9
72.5°	1663.2	1246.8	556.3	216.1	84.2	27.4	29.8	20.2	16.1	13.3	12.5
75°	1028.3	853.4	345.1	168.1	55.6	20.2	21.0	12.5	10.9	8.5	8.5
77.5°	595.8	538.9	123.3	60.5	24.6	12.1	9.3	6.4	6.0	3.6	3.6
80°	247.1	197.9	42.7	20.6	13.3	5.6	2.0	0.4	0.0	0.0	0.0
82.5°	72.2	64.1	11.7	9.3	4.0	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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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2
2.5°	1434.2	1420.9	1414.9	1435.4	1416.5	1440.7	1422.1	1430.2	1454.0	1464.5	1491.5
5°	1073.5	1059.7	1053.3	1084.3	1082.7	1098.0	1096.4	1110.5	1122.6	1095.6	1123.4
7.5°	747.7	738.5	753.8	778.0	803.8	795.3	795.3	776.4	782.8	778.8	777.6
10°	568.8	536.9	528.9	528.1	537.7	539.7	528.9	502.7	512.3	515.2	532.1
12.5°	447.4	422.9	385.4	368.4	364.0	367.6	331.8	308.8	319.7	313.2	329.7
15°	320.9	300.7	278.5	259.6	254.4	247.1	208.0	180.6	177.4	178.6	181.4
17.5°	229.0	215.3	215.3	195.1	184.2	162.4	142.7	130.6	129.4	130.6	132.6
20°	168.9	161.6	160.8	155.6	143.5	129.0	115.3	112.9	112.1	114.1	114.9
22.5°	145.5	137.9	131.4	131.0	119.7	107.6	101.2	98.0	98.4	99.2	101.2
25°	130.2	122.1	115.3	111.3	103.2	94.7	88.7	87.1	87.1	88.3	88.7
27.5°	119.3	109.2	103.2	97.6	90.3	83.0	77.8	76.6	75.8	76.6	78.6
30°	111.7	101.6	93.9	85.5	79.8	73.0	68.5	66.9	66.5	66.9	68.5
32.5°	95.5	89.5	83.4	75.8	68.9	64.5	59.7	56.8	56.8	57.6	59.3
35°	72.2	68.9	68.5	66.5	60.9	56.0	50.4	47.6	47.6	49.2	50.0
37.5°	63.7	57.6	56.8	56.0	53.6	47.2	41.9	39.5	39.1	40.3	41.9
40°	58.0	51.2	47.6	46.8	47.2	39.9	34.3	31.8	31.8	32.2	33.9
42.5°	53.6	45.6	39.1	38.3	39.9	33.5	27.8	25.4	25.4	25.4	27.4
45°	50.0	40.7	33.1	29.0	31.4	27.4	22.6	20.2	19.3	20.2	21.0
47.5°	47.6	37.1	29.0	23.4	23.4	21.8	18.1	15.3	14.5	14.9	16.1
50°	45.6	33.9	24.6	18.9	16.9	17.3	13.7	11.7	10.9	10.9	12.1
52.5°	42.3	30.6	21.4	16.1	12.9	11.7	10.1	8.5	8.1	8.5	9.3
55°	38.3	27.8	18.5	13.3	10.1	8.1	7.3	6.0	5.6	6.0	7.3
57.5°	33.9	23.4	14.9	10.5	6.9	5.2	4.8	4.0	3.2	3.6	4.4
59°	31.0	21.0	12.9	8.5	5.2	3.6	3.6	2.8	2.0	2.4	3.6
60°	29.8	19.3	10.9	7.3	4.4	2.8	2.8	2.0	1.2	1.6	2.8
62.5°	25.4	16.1	8.5	4.4	2.0	0.4	1.2	0.4	0.0	0.4	1.2
65°	21.4	12.9	5.6	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
67.5°	17.7	9.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	14.1	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9.7	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	6.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.4	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



REPORT NUMBER: P458612  
 CATALOG NUMBER: GALN-SA1D-735-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2	1773.2
2.5°	1493.1	1550.7	1586.2	1653.1	1721.6	1774.4	1840.6	1899.8	1924.4	1937.3
5°	1151.7	1231.9	1300.0	1402.0	1496.7	1612.0	1728.9	1866.8	1919.6	1933.3
7.5°	808.2	890.0	961.4	1079.5	1214.5	1368.9	1543.9	1718.8	1795.8	1817.6
10°	583.7	671.2	758.2	876.3	1002.5	1169.8	1352.0	1568.5	1657.1	1674.1
12.5°	368.4	462.4	603.8	749.8	883.2	1017.8	1208.5	1443.9	1541.9	1572.9
15°	213.6	283.8	390.6	580.9	750.6	928.7	1136.7	1397.1	1506.8	1538.6
17.5°	143.1	167.3	240.7	386.2	610.3	846.5	1118.6	1435.4	1556.8	1597.5
20°	120.5	131.4	157.2	235.4	470.0	773.1	1123.4	1539.4	1698.7	1749.5
22.5°	106.0	116.1	132.6	169.3	328.1	682.0	1146.4	1688.2	1893.8	1958.7
25°	93.5	103.6	118.1	140.3	220.5	576.8	1196.8	1905.9	2152.1	2223.5
27.5°	83.0	92.3	104.8	123.8	169.7	459.5	1241.5	2117.9	2388.0	2446.0
30°	73.4	81.0	93.1	107.6	141.1	354.3	1264.1	2303.3	2559.7	2624.2
32.5°	63.7	70.9	82.6	94.3	116.1	270.1	1248.4	2439.6	2726.6	2767.7
35°	54.4	62.1	71.8	82.6	100.4	218.1	1169.8	2592.7	2899.5	2931.7
37.5°	46.8	53.2	63.3	71.8	90.7	174.5	1074.7	2730.6	3093.4	3139.7
40°	39.5	46.0	56.0	63.7	83.4	137.5	988.8	2883.8	3297.8	3355.0
42.5°	32.2	39.9	48.8	61.3	71.8	104.8	884.8	3007.9	3451.3	3523.1
45°	25.8	34.3	43.9	60.9	62.5	79.8	784.4	3104.7	3587.2	3651.7
47.5°	20.6	29.0	42.3	56.8	51.2	63.3	727.2	3205.8	3700.0	3751.6
50°	16.5	24.2	44.3	50.0	42.7	53.6	725.6	3318.7	3758.5	3792.8
52.5°	13.3	19.8	37.5	38.3	36.3	47.2	769.1	3445.7	3818.2	3846.4
55°	11.3	16.5	24.6	28.2	32.7	42.7	801.8	3641.2	3960.5	3987.1
57.5°	8.9	14.1	18.9	22.6	29.0	39.1	806.2	3792.0	4140.6	4158.0
59°	7.7	12.1	16.9	20.2	26.6	36.7	788.1	3801.2	4152.3	4180.1
60°	6.4	10.9	14.9	18.9	24.6	34.7	768.3	3733.9	4108.8	4139.8
62.5°	4.8	8.5	10.9	15.3	20.2	29.8	674.8	3498.9	3942.3	3964.1
65°	3.2	6.0	8.1	11.3	15.7	25.8	549.8	3194.2	3685.1	3733.9
67.5°	2.0	4.4	6.4	8.5	12.9	21.8	391.8	2739.1	3325.2	3356.6
70°	1.2	2.8	4.8	6.9	10.1	17.3	232.6	2165.0	2766.5	2772.9
72.5°	0.8	2.0	3.2	4.8	8.1	15.7	112.9	1411.3	2019.9	2096.9
75°	0.4	1.2	2.0	3.6	6.4	12.9	54.0	942.8	1469.7	1491.9
77.5°	0.0	0.4	1.2	2.4	4.8	10.1	31.4	619.2	1002.1	1025.1
80°	0.0	0.0	0.8	2.0	3.6	6.4	18.9	365.2	607.1	618.4
82.5°	0.0	0.0	0.4	1.6	2.4	4.8	9.7	160.4	397.5	401.5
85°	0.0	0.0	0.4	1.6	2.0	3.2	3.6	21.8	176.6	179.8
87.5°	0.0	0.0	0.4	2.0	2.0	2.0	2.0	1.2	14.9	18.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)