

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: P953620

Luminaire Tested: **GALN-SB7A-840-U-SLR**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953620  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7A-840-U-SLR  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

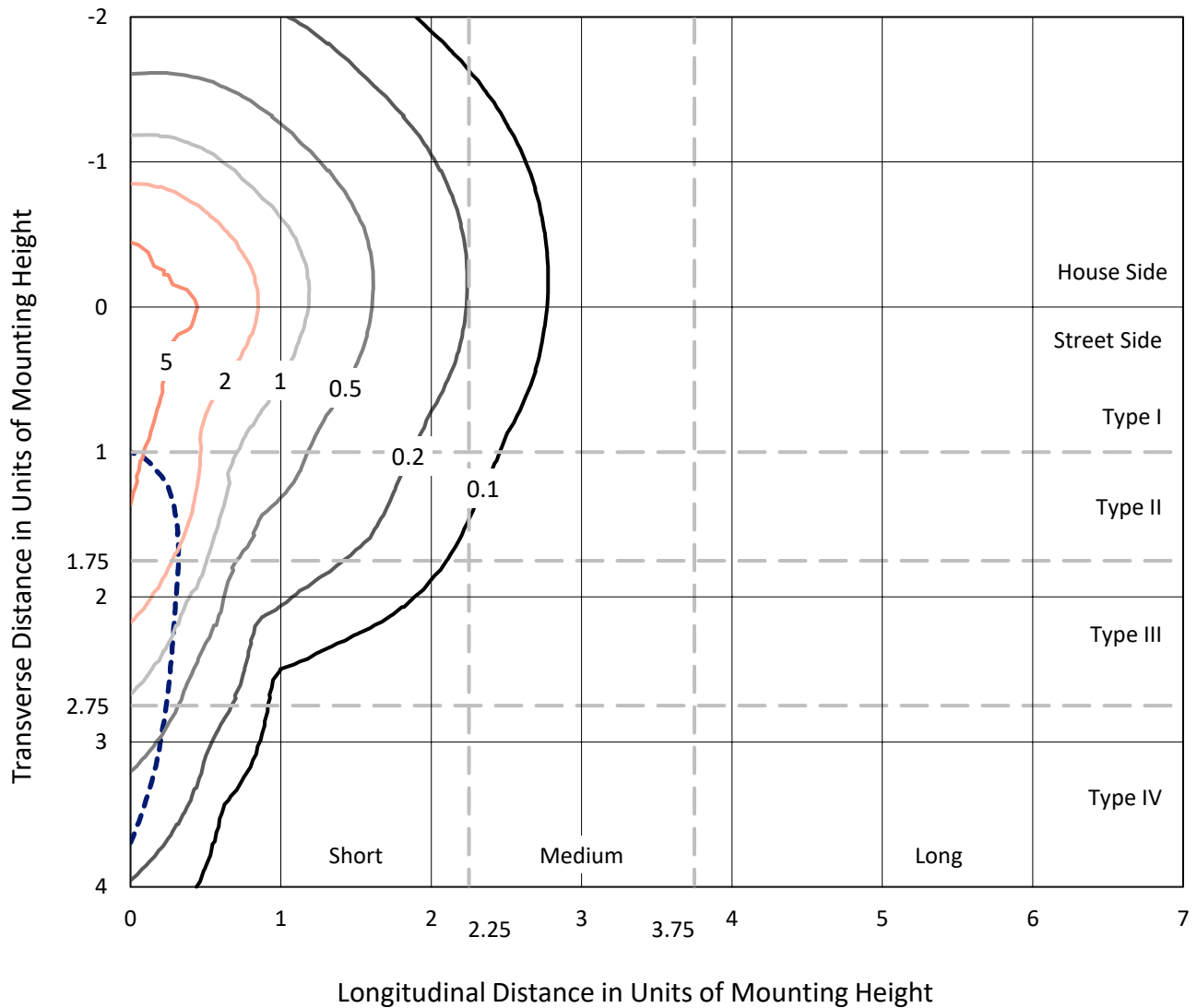
Lumens per Lamp: N/A  
Luminaire Lumens: 30405 lumens  
Efficiency: N/A  
Efficacy: 152.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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



REPORT NUMBER: P953620  
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### Iso-Footcandle Lines of Horizontal Illumination

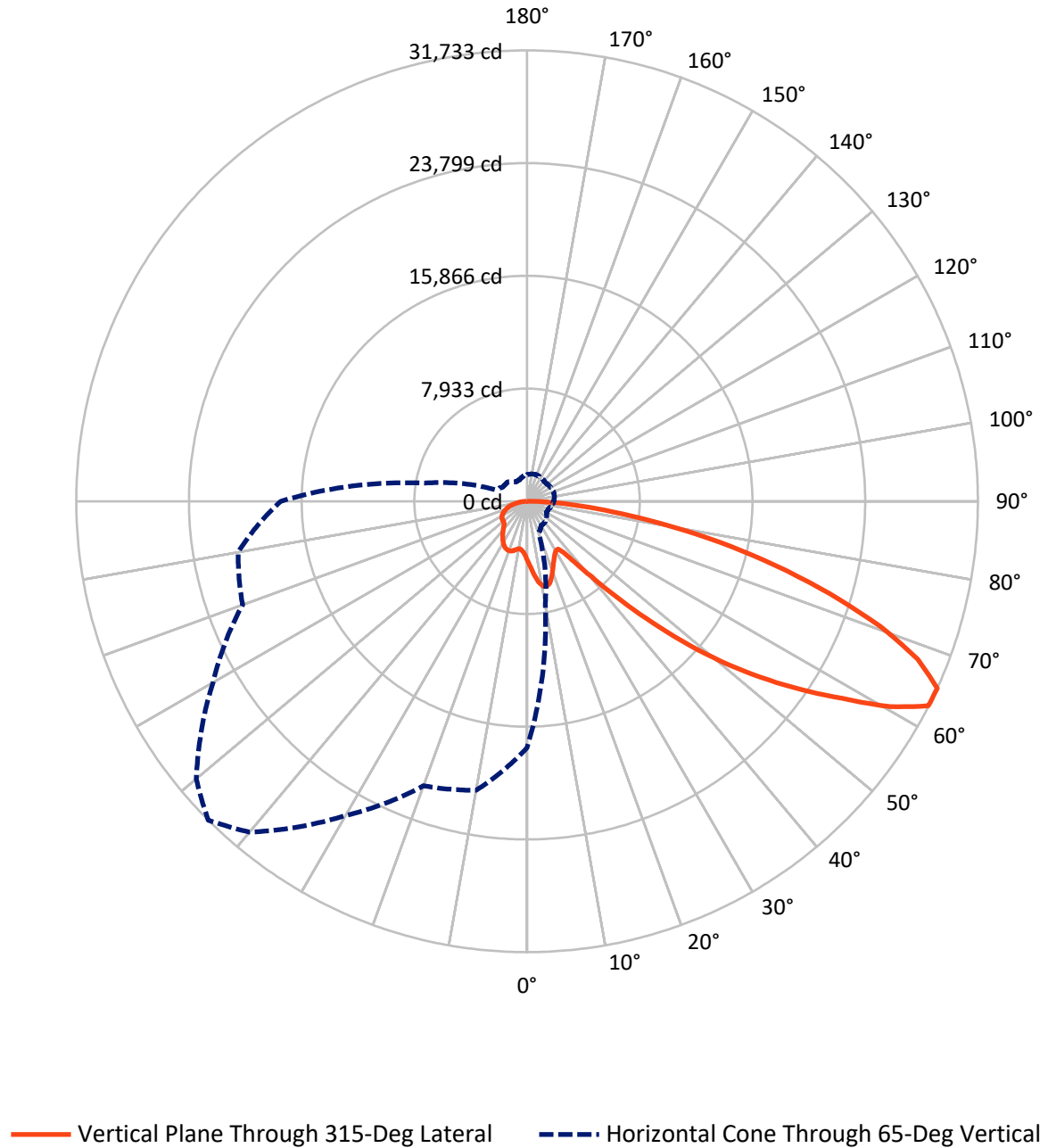
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type IV - Short - N/A

REPORT NUMBER: P953620  
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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7727.4	0.0	7727.4
	% Fixture	25.4	0.0	25.4
<b>Street Side</b>	Lumens	22677.6	0.0	22677.6
	% Fixture	74.6	0.0	74.6
<b>Total</b>	Lumens	30405.0	0.0	30405.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	414.7	1.4
10°-20°	1302.0	4.3
20°-30°	2011.1	6.6
30°-40°	2548.6	8.4
40°-50°	3843.9	12.6
50°-60°	6210.4	20.4
60°-70°	7742.2	25.5
70°-80°	5077.0	16.7
80°-90°	1255.2	4.1
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°	30405.0	100.0
0°-180°	30405.0	100.0



REPORT NUMBER: P953620

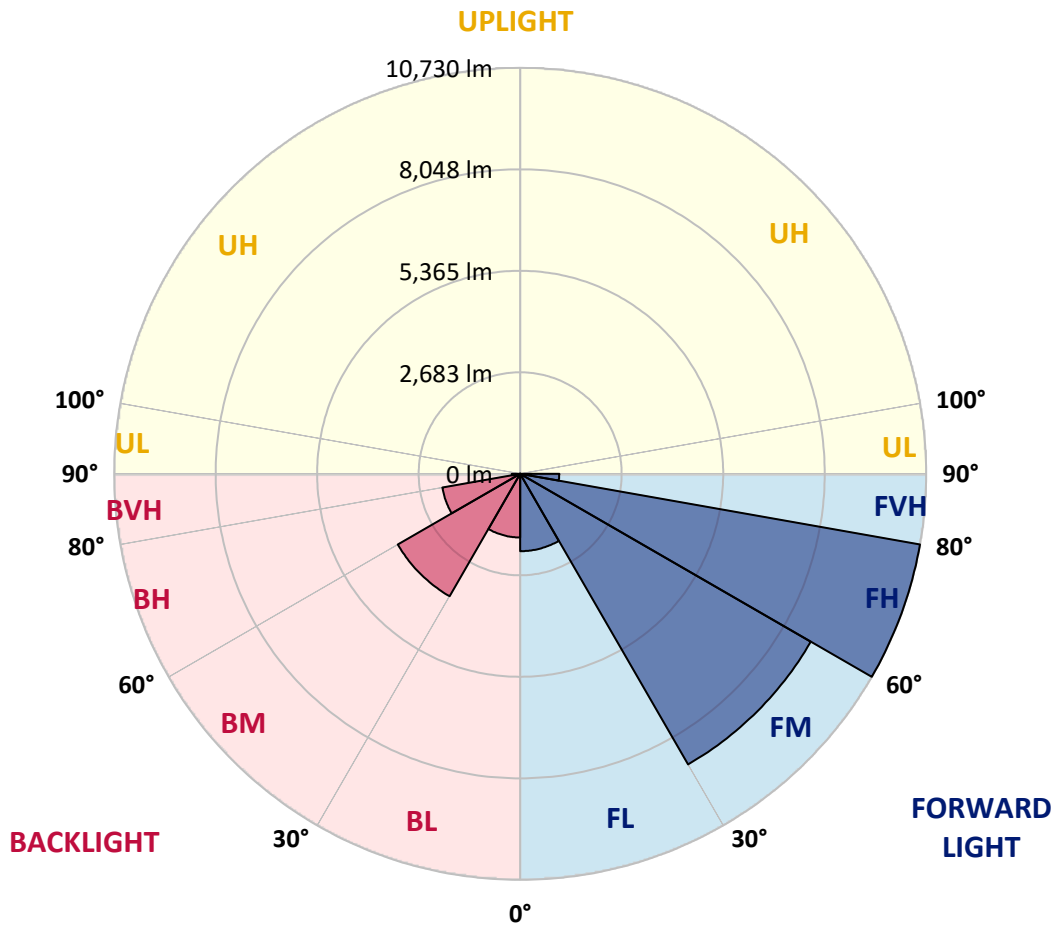
CATALOG NUMBER: GALN-SB7A-840-U-SLR

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2045.1	6.7			
FM (30°-60°)	8868.5	29.2			
FH (60°-80°)	10730.0	35.3			G4/12000
FVH (80°-90°)	1034.0	3.4			G5
BL (0°-30°)	1682.7	5.5	B3/2500		
BM (30°-60°)	3734.4	12.3	B3/5000		
BH (60°-80°)	2089.1	6.9	B3/2500		G3/2500
BVH (80°-90°)	221.2	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



REPORT NUMBER: P953620  
 CATALOG NUMBER: GALN-SB7A-840-U-SLR

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9
2.5°	4496.2	4461.7	4427.2	4390.5	4353.9	4317.0	4280.1	4244.8	4209.5	4175.3
5°	4834.7	4758.5	4682.3	4606.3	4530.4	4453.9	4377.5	4306.1	4234.7	4167.3
7.5°	5174.8	5049.1	4923.4	4807.3	4691.1	4578.0	4464.9	4365.3	4265.7	4173.7
10°	5435.6	5276.6	5117.6	4964.0	4810.7	4673.3	4535.8	4418.1	4300.0	4186.6
12.5°	5595.2	5420.5	5245.9	5072.0	4898.1	4736.1	4574.0	4440.7	4307.4	4188.2
15°	5692.3	5510.2	5328.1	5139.4	4950.7	4764.1	4577.5	4423.2	4268.9	4136.8
17.5°	5746.8	5562.1	5377.5	5171.6	4965.8	4749.2	4532.6	4347.0	4161.4	4006.1
20°	5807.0	5615.1	5423.0	5196.8	4970.6	4708.1	4445.7	4215.6	3985.5	3804.7
22.5°	5876.8	5680.7	5484.5	5230.8	4977.0	4657.8	4338.5	4061.4	3784.4	3578.5
25°	5966.6	5774.4	5582.4	5292.4	5002.4	4608.0	4213.8	3889.3	3564.9	3353.9
27.5°	6088.5	5905.3	5721.9	5388.7	5055.3	4574.8	4094.3	3731.9	3369.5	3177.4
30°	6253.0	6075.9	5898.9	5513.4	5127.8	4559.3	3990.4	3600.3	3210.3	3049.1
32.5°	6447.1	6271.7	6096.5	5643.5	5190.4	4540.0	3889.3	3486.9	3084.4	2954.4
35°	6682.9	6515.1	6347.1	5791.7	5236.3	4503.7	3771.5	3375.4	2979.3	2871.0
37.5°	7080.0	6866.0	6652.0	5957.8	5263.6	4441.7	3619.7	3244.2	2868.6	2773.9
40°	7680.0	7368.2	7056.3	6168.6	5280.7	4356.1	3431.7	3087.6	2743.4	2657.6
42.5°	8475.8	8025.6	7575.4	6444.4	5313.3	4267.9	3222.8	2914.8	2606.8	2527.7
45°	9458.5	8851.2	8244.0	6807.3	5370.6	4185.9	3001.4	2731.3	2461.1	2380.9
47.5°	10687.4	9832.8	8978.0	7193.9	5409.9	4118.2	2826.6	2586.1	2345.6	2242.1
50°	12298.2	11009.7	9721.1	7552.7	5384.2	4044.4	2704.6	2489.6	2274.7	2138.6
52.5°	14147.2	12246.0	10344.9	7785.6	5226.2	3919.8	2613.5	2426.1	2238.9	2082.5
55°	16115.7	13342.1	10568.7	7734.3	4899.7	3713.1	2526.5	2380.1	2233.6	2088.1
57.5°	17906.2	14119.0	10331.7	7373.0	4414.4	3421.8	2429.0	2325.5	2222.0	2093.7
60°	18988.3	14313.1	9637.7	6700.6	3763.5	3043.5	2323.4	2242.1	2160.7	2076.0
62.5°	18438.9	13495.7	8552.5	5791.4	3030.3	2590.7	2151.1	2097.1	2043.1	2032.7
65°	17339.1	12339.1	7339.1	4863.8	2388.6	2183.4	1978.2	1952.7	1927.2	1928.4
67.5°	15865.5	10962.7	6060.0	3955.1	1850.1	1791.9	1733.5	1747.8	1761.9	1758.4
70°	14095.1	9460.9	4826.7	3114.1	1401.4	1418.1	1434.6	1500.7	1566.7	1566.7
72.5°	11985.3	7832.8	3680.4	2380.7	1081.0	1131.2	1181.6	1275.3	1368.8	1384.6
75°	9316.5	5966.4	2616.4	1727.9	839.4	885.0	930.5	1035.5	1140.4	1212.9
77.5°	6656.5	4176.0	1695.5	1170.9	646.2	677.2	708.3	810.2	912.1	1031.6
80°	4356.6	2690.5	1024.4	754.4	484.5	497.4	510.2	596.5	682.7	825.4
82.5°	2532.5	1557.2	582.1	464.0	346.2	348.5	351.0	414.6	478.1	600.0
85°	1114.2	700.5	286.9	248.0	209.4	208.2	207.0	253.5	300.0	390.7
87.5°	344.9	229.4	113.9	102.8	91.8	90.6	89.5	108.5	127.5	165.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953620  
 CATALOG NUMBER: GALN-SB7A-840-U-SLR

**CANDELA DISTRIBUTION (continued):**

50°		55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
4180.9	0°	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9
4137.3	2.5°	4106.5	4075.9	4048.1	4020.5	3996.3	3972.1	3947.7	3923.5	3904.7	3885.7
4100.7	5°	4042.7	3984.4	3935.6	3887.0	3844.0	3801.0	3762.1	3722.9	3692.9	3662.7
4087.6	7.5°	4010.2	3933.1	3868.9	3804.7	3750.7	3696.4	3648.6	3601.0	3565.2	3529.6
4094.0	10°	4012.5	3931.0	3866.8	3802.6	3744.4	3686.0	3632.3	3578.5	3535.8	3493.0
4102.0	12.5°	4035.3	3968.9	3926.2	3883.8	3837.9	3792.4	3736.7	3681.2	3626.6	3572.1
4067.8	15°	4035.9	4004.1	4009.9	4015.7	4003.8	3992.0	3943.7	3895.4	3817.7	3740.1
3963.6	17.5°	3975.3	3986.8	4056.8	4126.7	4163.9	4201.0	4162.0	4123.2	4020.4	3917.5
3793.5	20°	3848.0	3902.6	4024.0	4145.7	4223.5	4301.3	4283.3	4265.2	4147.6	4030.1
3600.5	22.5°	3681.2	3761.9	3900.5	4039.4	4140.7	4241.9	4252.8	4263.6	4151.3	4039.0
3413.3	25°	3506.3	3599.4	3724.0	3848.8	3948.5	4048.1	4085.3	4122.4	4030.3	3938.4
3249.6	27.5°	3339.5	3429.3	3531.8	3634.2	3714.1	3794.0	3835.4	3876.9	3811.3	3745.8
3105.7	30°	3176.9	3248.5	3333.5	3418.6	3484.8	3551.2	3584.9	3618.6	3568.7	3518.7
2979.6	32.5°	3021.8	3064.0	3131.9	3199.9	3263.4	3327.1	3364.5	3402.0	3356.2	3310.1
2860.6	35°	2872.1	2883.8	2935.6	2987.3	3050.2	3113.3	3158.2	3203.1	3170.4	3137.8
2735.7	37.5°	2722.9	2710.1	2747.3	2784.4	2847.1	2910.0	2965.5	3021.0	3005.9	2990.8
2599.1	40°	2570.0	2541.0	2567.8	2594.6	2655.2	2715.9	2779.7	2843.7	2847.4	2850.9
2453.9	42.5°	2415.4	2376.9	2398.7	2420.7	2478.1	2535.7	2604.7	2673.7	2692.1	2710.6
2309.5	45°	2271.9	2234.5	2252.8	2271.4	2326.0	2380.5	2452.1	2523.7	2550.1	2576.6
2180.6	47.5°	2149.2	2117.7	2135.1	2152.2	2205.7	2258.9	2329.5	2400.1	2430.6	2461.1
2067.2	50°	2039.3	2011.5	2038.5	2065.6	2116.0	2166.2	2229.4	2292.6	2331.8	2370.9
1982.7	52.5°	1955.1	1927.6	1968.2	2008.7	2054.9	2100.9	2159.8	2218.8	2265.2	2311.6
1937.7	55°	1894.1	1850.6	1908.2	1965.7	2015.4	2065.1	2116.8	2168.3	2217.4	2266.6
1910.8	57.5°	1847.3	1783.7	1845.7	1907.6	1966.0	2024.4	2075.4	2126.6	2176.1	2225.6
1885.4	60°	1803.1	1720.7	1775.1	1829.3	1896.3	1963.4	2015.2	2067.2	2116.9	2166.7
1855.9	62.5°	1752.9	1650.1	1684.6	1719.1	1797.2	1875.5	1930.8	1986.2	2031.8	2077.3
1793.7	65°	1684.3	1574.7	1588.0	1601.1	1684.9	1768.8	1821.7	1874.7	1914.8	1954.9
1682.6	67.5°	1591.5	1500.4	1496.2	1492.1	1569.4	1646.9	1697.1	1747.1	1781.8	1816.5
1541.8	70°	1477.0	1412.2	1397.7	1383.3	1451.3	1519.3	1562.6	1606.0	1637.2	1668.5
1384.9	72.5°	1340.4	1296.0	1274.8	1253.8	1307.4	1360.8	1400.0	1439.1	1469.7	1500.4
1206.8	75°	1172.6	1138.3	1118.1	1097.7	1137.5	1177.3	1212.7	1248.2	1276.1	1304.0
1028.4	77.5°	1001.0	973.5	953.0	932.5	964.9	997.1	1027.6	1058.1	1087.4	1116.6
825.0	80°	802.0	778.9	761.7	744.4	771.4	798.2	823.8	849.5	871.8	893.9
606.8	82.5°	595.5	584.3	572.1	559.9	557.7	555.4	546.4	537.5	584.9	632.4
399.5	85°	387.5	375.4	361.8	348.1	336.6	324.9	300.0	275.1	319.6	364.2
176.5	87.5°	171.7	166.9	164.3	161.7	161.2	160.8	141.8	122.7	141.3	160.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953620  
 CATALOG NUMBER: GALN-SB7A-840-U-SLR

**CANDELA DISTRIBUTION (continued):**

105°		110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
4180.9	0°	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9
3870.5	2.5°	3855.3	3843.4	3831.5	3820.6	3809.5	3795.9	3809.5	3820.6	3831.5	3843.4
3641.7	5°	3620.7	3605.8	3590.9	3579.5	3568.1	3556.9	3568.1	3579.5	3590.9	3605.8
3504.6	7.5°	3479.5	3462.4	3445.4	3435.1	3425.0	3417.3	3425.0	3435.1	3445.4	3462.4
3465.1	10°	3436.8	3420.6	3404.4	3395.8	3387.1	3383.6	3387.1	3395.8	3404.4	3420.6
3536.0	12.5°	3499.9	3481.8	3463.8	3456.4	3449.0	3447.8	3449.0	3456.4	3463.8	3481.8
3685.2	15°	3630.3	3605.1	3580.1	3570.5	3560.9	3560.1	3560.9	3570.5	3580.1	3605.1
3836.7	17.5°	3755.8	3718.6	3681.2	3669.0	3656.6	3654.7	3656.6	3669.0	3681.2	3718.6
3931.0	20°	3832.0	3784.4	3736.5	3721.3	3706.1	3701.2	3706.1	3721.3	3736.5	3784.4
3936.9	22.5°	3834.7	3784.5	3734.1	3717.3	3700.4	3693.2	3700.4	3717.3	3734.1	3784.5
3847.6	25°	3757.1	3713.4	3670.0	3654.1	3638.4	3629.1	3638.4	3654.1	3670.0	3713.4
3675.4	27.5°	3605.0	3575.8	3546.4	3539.2	3532.0	3529.6	3532.0	3539.2	3546.4	3575.8
3468.3	30°	3417.6	3402.7	3387.6	3387.6	3387.6	3390.0	3387.6	3387.6	3387.6	3402.7
3269.8	32.5°	3229.6	3219.8	3210.0	3211.3	3212.7	3215.1	3212.7	3211.3	3210.0	3219.8
3100.6	35°	3063.5	3048.6	3033.8	3030.6	3027.4	3025.8	3027.4	3030.6	3033.8	3048.6
2956.7	37.5°	2922.3	2895.2	2868.3	2854.0	2839.7	2831.7	2839.7	2854.0	2868.3	2895.2
2821.9	40°	2792.9	2753.4	2714.2	2687.6	2661.3	2645.6	2661.3	2687.6	2714.2	2753.4
2686.0	42.5°	2661.6	2612.7	2563.8	2525.1	2486.4	2461.1	2486.4	2525.1	2563.8	2612.7
2554.5	45°	2532.5	2476.5	2420.7	2375.2	2329.8	2300.6	2329.8	2375.2	2420.7	2476.5
2445.7	47.5°	2430.3	2380.5	2330.8	2288.8	2246.9	2218.8	2246.9	2288.8	2330.8	2380.5
2370.0	50°	2369.3	2329.5	2289.7	2250.9	2212.1	2185.1	2212.1	2250.9	2289.7	2329.5
2319.9	52.5°	2328.2	2295.8	2263.4	2228.6	2194.0	2169.1	2194.0	2228.6	2263.4	2295.8
2278.2	55°	2289.7	2261.5	2233.3	2202.8	2172.3	2149.8	2172.3	2202.8	2233.3	2261.5
2237.3	57.5°	2249.0	2220.4	2191.9	2161.7	2131.4	2108.1	2131.4	2161.7	2191.9	2220.4
2179.5	60°	2192.4	2164.4	2136.7	2105.6	2074.4	2050.4	2074.4	2105.6	2136.7	2164.4
2089.7	62.5°	2102.0	2076.8	2051.6	2018.9	1986.2	1957.3	1986.2	2018.9	2051.6	2076.8
1967.6	65°	1980.1	1955.9	1931.6	1899.9	1868.3	1843.4	1868.3	1899.9	1931.6	1955.9
1828.8	67.5°	1841.0	1818.7	1796.6	1767.0	1737.5	1715.1	1737.5	1767.0	1796.6	1818.7
1680.4	70°	1692.3	1674.1	1656.0	1627.8	1599.5	1573.9	1599.5	1627.8	1656.0	1674.1
1514.5	72.5°	1528.6	1513.5	1498.5	1471.5	1444.7	1419.9	1444.7	1471.5	1498.5	1513.5
1318.8	75°	1333.5	1326.2	1318.8	1296.2	1273.5	1249.8	1273.5	1296.2	1318.8	1326.2
1130.4	77.5°	1144.2	1134.0	1123.4	1100.6	1077.8	1058.9	1077.8	1100.6	1123.4	1134.0
912.2	80°	930.5	926.0	921.7	891.1	860.3	824.6	860.3	891.1	921.7	926.0
663.6	82.5°	694.7	692.8	690.7	664.8	638.9	616.1	638.9	664.8	690.7	692.8
402.7	85°	441.2	438.0	434.8	414.6	394.4	373.8	394.4	414.6	434.8	438.0
175.7	87.5°	191.2	187.4	183.2	172.9	162.4	152.4	162.4	172.9	183.2	187.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953620  
 CATALOG NUMBER: GALN-SB7A-840-U-SLR

**CANDELA DISTRIBUTION (continued):**

160°		165°	170°	175°	180°	185°	190°	195°	200°	205°	210°
4180.9	0°	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9
3855.3	2.5°	3870.5	3885.7	3904.7	3923.5	3947.7	3972.1	3996.3	4020.5	4048.1	4075.9
3620.7	5°	3641.7	3662.7	3692.9	3722.9	3762.1	3801.0	3844.0	3887.0	3935.6	3984.4
3479.5	7.5°	3504.6	3529.6	3565.2	3601.0	3648.6	3696.4	3750.7	3804.7	3868.9	3933.1
3436.8	10°	3465.1	3493.0	3535.8	3578.5	3632.3	3686.0	3744.4	3802.6	3866.8	3931.0
3499.9	12.5°	3536.0	3572.1	3626.6	3681.2	3736.7	3792.4	3837.9	3883.8	3926.2	3968.9
3630.3	15°	3685.2	3740.1	3817.7	3895.4	3943.7	3992.0	4003.8	4015.7	4009.9	4004.1
3755.8	17.5°	3836.7	3917.5	4020.4	4123.2	4162.0	4201.0	4163.9	4126.7	4056.8	3986.8
3832.0	20°	3931.0	4030.1	4147.6	4265.2	4283.3	4301.3	4223.5	4145.7	4024.0	3902.6
3834.7	22.5°	3936.9	4039.0	4151.3	4263.6	4252.8	4241.9	4140.7	4039.4	3900.5	3761.9
3757.1	25°	3847.6	3938.4	4030.3	4122.4	4085.3	4048.1	3948.5	3848.8	3724.0	3599.4
3605.0	27.5°	3675.4	3745.8	3811.3	3876.9	3835.4	3794.0	3714.1	3634.2	3531.8	3429.3
3417.6	30°	3468.3	3518.7	3568.7	3618.6	3584.9	3551.2	3484.8	3418.6	3333.5	3248.5
3229.6	32.5°	3269.8	3310.1	3356.2	3402.0	3364.5	3327.1	3263.4	3199.9	3131.9	3064.0
3063.5	35°	3100.6	3137.8	3170.4	3203.1	3158.2	3113.3	3050.2	2987.3	2935.6	2883.8
2922.3	37.5°	2956.7	2990.8	3005.9	3021.0	2965.5	2910.0	2847.1	2784.4	2747.3	2710.1
2792.9	40°	2821.9	2850.9	2847.4	2843.7	2779.7	2715.9	2655.2	2594.6	2567.8	2541.0
2661.6	42.5°	2686.0	2710.6	2692.1	2673.7	2604.7	2535.7	2478.1	2420.7	2398.7	2376.9
2532.5	45°	2554.5	2576.6	2550.1	2523.7	2452.1	2380.5	2326.0	2271.4	2252.8	2234.5
2430.3	47.5°	2445.7	2461.1	2430.6	2400.1	2329.5	2258.9	2205.7	2152.2	2135.1	2117.7
2369.3	50°	2370.0	2370.9	2331.8	2292.6	2229.4	2166.2	2116.0	2065.6	2038.5	2011.5
2328.2	52.5°	2319.9	2311.6	2265.2	2218.8	2159.8	2100.9	2054.9	2008.7	1968.2	1927.6
2289.7	55°	2278.2	2266.6	2217.4	2168.3	2116.8	2065.1	2015.4	1965.7	1908.2	1850.6
2249.0	57.5°	2237.3	2225.6	2176.1	2126.6	2075.4	2024.4	1966.0	1907.6	1845.7	1783.7
2192.4	60°	2179.5	2166.7	2116.9	2067.2	2015.2	1963.4	1896.3	1829.3	1775.1	1720.7
2102.0	62.5°	2089.7	2077.3	2031.8	1986.2	1930.8	1875.5	1797.2	1719.1	1684.6	1650.1
1980.1	65°	1967.6	1954.9	1914.8	1874.7	1821.7	1768.8	1684.9	1601.1	1588.0	1574.7
1841.0	67.5°	1828.8	1816.5	1781.8	1747.1	1697.1	1646.9	1569.4	1492.1	1496.2	1500.4
1692.3	70°	1680.4	1668.5	1637.2	1606.0	1562.6	1519.3	1451.3	1383.3	1397.7	1412.2
1528.6	72.5°	1514.5	1500.4	1469.7	1439.1	1400.0	1360.8	1307.4	1253.8	1274.8	1296.0
1333.5	75°	1318.8	1304.0	1276.1	1248.2	1212.7	1177.3	1137.5	1097.7	1118.1	1138.3
1144.2	77.5°	1130.4	1116.6	1087.4	1058.1	1027.6	997.1	964.9	932.5	953.0	973.5
930.5	80°	912.2	893.9	871.8	849.5	823.8	798.2	771.4	744.4	761.7	778.9
694.7	82.5°	663.6	632.4	584.9	537.5	546.4	555.4	557.7	559.9	572.1	584.3
441.2	85°	402.7	364.2	319.6	275.1	300.0	324.9	336.6	348.1	361.8	375.4
191.2	87.5°	175.7	160.1	141.3	122.7	141.8	160.8	161.2	161.7	164.3	166.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953620  
 CATALOG NUMBER: GALN-SB7A-840-U-SLR

**CANDELA DISTRIBUTION (continued):**

215°		220°	225°	230°	235°	240°	245°	250°	255°	260°	265°
4180.9	0°	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9
4106.5	2.5°	4137.3	4175.3	4209.5	4244.8	4280.1	4317.0	4353.9	4390.5	4427.2	4461.7
4042.7	5°	4100.7	4167.3	4234.7	4306.1	4377.5	4453.9	4530.4	4606.3	4682.3	4758.5
4010.2	7.5°	4087.6	4173.7	4265.7	4365.3	4464.9	4578.0	4691.1	4807.3	4923.4	5049.1
4012.5	10°	4094.0	4186.6	4300.0	4418.1	4535.8	4673.3	4810.7	4964.0	5117.6	5276.6
4035.3	12.5°	4102.0	4188.2	4307.4	4440.7	4574.0	4736.1	4898.1	5072.0	5245.9	5420.5
4035.9	15°	4067.8	4136.8	4268.9	4423.2	4577.5	4764.1	4950.7	5139.4	5328.1	5510.2
3975.3	17.5°	3963.6	4006.1	4161.4	4347.0	4532.6	4749.2	4965.8	5171.6	5377.5	5562.1
3848.0	20°	3793.5	3804.7	3985.5	4215.6	4445.7	4708.1	4970.6	5196.8	5423.0	5615.1
3681.2	22.5°	3600.5	3578.5	3784.4	4061.4	4338.5	4657.8	4977.0	5230.8	5484.5	5680.7
3506.3	25°	3413.3	3353.9	3564.9	3889.3	4213.8	4608.0	5002.4	5292.4	5582.4	5774.4
3339.5	27.5°	3249.6	3177.4	3369.5	3731.9	4094.3	4574.8	5055.3	5388.7	5721.9	5905.3
3176.9	30°	3105.7	3049.1	3210.3	3600.3	3990.4	4559.3	5127.8	5513.4	5898.9	6075.9
3021.8	32.5°	2979.6	2954.4	3084.4	3486.9	3889.3	4540.0	5190.4	5643.5	6096.5	6271.7
2872.1	35°	2860.6	2871.0	2979.3	3375.4	3771.5	4503.7	5236.3	5791.7	6347.1	6515.1
2722.9	37.5°	2735.7	2773.9	2868.6	3244.2	3619.7	4441.7	5263.6	5957.8	6652.0	6866.0
2570.0	40°	2599.1	2657.6	2743.4	3087.6	3431.7	4356.1	5280.7	6168.6	7056.3	7368.2
2415.4	42.5°	2453.9	2527.7	2606.8	2914.8	3222.8	4267.9	5313.3	6444.4	7575.4	8025.6
2271.9	45°	2309.5	2380.9	2461.1	2731.3	3001.4	4185.9	5370.6	6807.3	8244.0	8851.2
2149.2	47.5°	2180.6	2242.1	2345.6	2586.1	2826.6	4118.2	5409.9	7193.9	8978.0	9832.8
2039.3	50°	2067.2	2138.6	2274.7	2489.6	2704.6	4044.4	5384.2	7552.7	9721.1	11009.7
1955.1	52.5°	1982.7	2082.5	2238.9	2426.1	2613.5	3919.8	5226.2	7785.6	10344.9	12246.0
1894.1	55°	1937.7	2088.1	2233.6	2380.1	2526.5	3713.1	4899.7	7734.3	10568.7	13342.1
1847.3	57.5°	1910.8	2093.7	2222.0	2325.5	2429.0	3421.8	4414.4	7373.0	10331.7	14119.0
1803.1	60°	1885.4	2076.0	2160.7	2242.1	2323.4	3043.5	3763.5	6700.6	9637.7	14313.1
1752.9	62.5°	1855.9	2032.7	2043.1	2097.1	2151.1	2590.7	3030.3	5791.4	8552.5	13495.7
1684.3	65°	1793.7	1928.4	1927.2	1952.7	1978.2	2183.4	2388.6	4863.8	7339.1	12339.1
1591.5	67.5°	1682.6	1758.4	1761.9	1747.8	1733.5	1791.9	1850.1	3955.1	6060.0	10962.7
1477.0	70°	1541.8	1566.7	1566.7	1500.7	1434.6	1418.1	1401.4	3114.1	4826.7	9460.9
1340.4	72.5°	1384.9	1384.6	1368.8	1275.3	1181.6	1131.2	1081.0	2380.7	3680.4	7832.8
1172.6	75°	1206.8	1212.9	1140.4	1035.5	930.5	885.0	839.4	1727.9	2616.4	5966.4
1001.0	77.5°	1028.4	1031.6	912.1	810.2	708.3	677.2	646.2	1170.9	1695.5	4176.0
802.0	80°	825.0	825.4	682.7	596.5	510.2	497.4	484.5	754.4	1024.4	2690.5
595.5	82.5°	606.8	600.0	478.1	414.6	351.0	348.5	346.2	464.0	582.1	1557.2
387.5	85°	399.5	390.7	300.0	253.5	207.0	208.2	209.4	248.0	286.9	700.5
171.7	87.5°	176.5	165.2	127.5	108.5	89.5	90.6	91.8	102.8	113.9	229.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953620  
 CATALOG NUMBER: GALN-SB7A-840-U-SLR

**CANDELA DISTRIBUTION (continued):**

270°		275°	280°	285°	290°	295°	300°	305°	310°	315°	320°
4180.9	0°	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9
4496.2	2.5°	4513.2	4530.4	4554.6	4578.8	4593.3	4607.7	4614.9	4622.1	4618.9	4622.1
4834.7	5°	4894.2	4953.9	5013.0	5072.2	5104.3	5136.3	5155.8	5175.3	5190.1	5175.3
5174.8	7.5°	5271.8	5368.5	5455.6	5542.7	5595.2	5647.7	5676.0	5704.3	5717.9	5704.3
5435.6	10°	5550.1	5664.7	5766.9	5869.1	5931.0	5992.6	6020.2	6047.6	6058.0	6047.6
5595.2	12.5°	5719.4	5843.4	5935.8	6027.9	6072.8	6117.7	6132.8	6147.9	6149.5	6147.9
5692.3	15°	5799.4	5906.4	5964.4	6022.4	6024.0	6025.6	6009.6	5993.5	5974.6	5993.5
5746.8	17.5°	5819.2	5891.5	5892.6	5893.6	5828.6	5763.6	5704.1	5644.4	5602.4	5644.4
5807.0	20°	5832.2	5857.5	5781.3	5705.1	5561.7	5418.2	5313.8	5209.3	5145.2	5209.3
5876.8	22.5°	5843.7	5810.7	5652.8	5494.9	5283.9	5073.0	4942.4	4811.8	4740.9	4811.8
5966.6	25°	5862.3	5758.0	5518.3	5278.6	5022.4	4766.2	4628.9	4491.9	4424.8	4491.9
6088.5	27.5°	5902.1	5715.5	5398.0	5080.7	4796.7	4512.7	4377.6	4242.7	4179.3	4242.7
6253.0	30°	5974.9	5697.1	5306.2	4915.4	4619.6	4323.7	4198.4	4073.1	4014.1	4073.1
6447.1	32.5°	6066.4	5685.8	5243.7	4801.5	4523.5	4245.4	4147.1	4048.6	4006.1	4048.6
6682.9	35°	6217.0	5751.3	5290.5	4829.9	4636.7	4443.7	4420.8	4397.9	4394.3	4397.9
7080.0	37.5°	6532.0	5983.9	5565.2	5146.5	5133.9	5121.4	5226.3	5331.3	5385.8	5331.3
7680.0	40°	7084.0	6488.0	6176.6	5865.2	6085.0	6304.8	6559.9	6815.0	6942.0	6815.0
8475.8	42.5°	7884.4	7293.1	7113.7	6934.3	7413.7	7893.1	8357.1	8821.1	9093.5	8821.1
9458.5	45°	8927.3	8395.9	8316.8	8237.6	9005.6	9773.7	10536.1	11298.7	11761.5	11298.7
10687.4	47.5°	10170.6	9653.7	9637.7	9621.6	10729.6	11837.3	12953.4	14069.4	14724.8	14069.4
12298.2	50°	11659.8	11021.6	11024.3	11027.1	12454.9	13882.8	15356.1	16829.4	17720.1	16829.4
14147.2	52.5°	13374.2	12601.4	12523.3	12445.0	14150.6	15856.2	17679.0	19501.7	20569.4	19501.7
16115.7	55°	15352.1	14588.4	14283.7	13979.1	15877.3	17775.5	19948.6	22121.7	23391.5	22121.7
17906.2	57.5°	17490.4	17074.3	16463.3	15852.3	17769.0	19685.8	22147.2	24608.4	26183.1	24608.4
18988.3	60°	19634.3	20280.3	19521.5	18762.6	20576.5	22390.4	25025.7	27661.0	29362.9	27661.0
18438.9	62.5°	20203.8	21968.8	21883.2	21797.6	23459.2	25121.0	27628.3	30135.4	31708.5	30135.4
17339.1	65°	18995.6	20652.1	20979.8	21307.4	23419.1	25530.9	27962.1	30393.2	31732.5	30393.2
15865.5	67.5°	17440.9	19016.4	19170.1	19323.7	21523.9	23723.9	26165.6	28607.3	29656.5	28607.3
14095.1	70°	15808.7	17522.4	17591.1	17659.9	19627.5	21594.9	23696.2	25797.2	26380.4	25797.2
11985.3	72.5°	13951.8	15918.4	15967.8	16017.1	17556.5	19095.8	20669.5	22243.1	22302.1	22243.1
9316.5	75°	11351.8	13387.1	13569.8	13752.5	14950.2	16147.8	17255.6	18363.4	18066.6	18363.4
6656.5	77.5°	8556.3	10456.4	10717.9	10979.4	11889.9	12800.3	13586.0	14371.8	13861.6	14371.8
4356.6	80°	5955.0	7553.3	7878.3	8203.4	8891.0	9578.3	9991.0	10403.4	9582.8	10403.4
2532.5	82.5°	3625.2	4718.1	5081.2	5444.4	5917.7	6390.9	6563.1	6735.1	6090.1	6735.1
1114.2	85°	1694.2	2274.2	2583.0	2891.9	3280.7	3669.5	3767.2	3864.9	3348.3	3864.9
344.9	87.5°	539.9	734.8	907.1	1079.4	1273.9	1468.3	1476.6	1484.8	1246.6	1484.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953620  
 CATALOG NUMBER: GALN-SB7A-840-U-SLR

**CANDELA DISTRIBUTION (continued):**

325°		330°	335°	340°	345°	350°	355°	360°
4180.9	0°	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9
4614.9	2.5°	4607.7	4593.3	4578.8	4554.6	4530.4	4513.2	4496.2
5155.8	5°	5136.3	5104.3	5072.2	5013.0	4953.9	4894.2	4834.7
5676.0	7.5°	5647.7	5595.2	5542.7	5455.6	5368.5	5271.8	5174.8
6020.2	10°	5992.6	5931.0	5869.1	5766.9	5664.7	5550.1	5435.6
6132.8	12.5°	6117.7	6072.8	6027.9	5935.8	5843.4	5719.4	5595.2
6009.6	15°	6025.6	6024.0	6022.4	5964.4	5906.4	5799.4	5692.3
5704.1	17.5°	5763.6	5828.6	5893.6	5892.6	5891.5	5819.2	5746.8
5313.8	20°	5418.2	5561.7	5705.1	5781.3	5857.5	5832.2	5807.0
4942.4	22.5°	5073.0	5283.9	5494.9	5652.8	5810.7	5843.7	5876.8
4628.9	25°	4766.2	5022.4	5278.6	5518.3	5758.0	5862.3	5966.6
4377.6	27.5°	4512.7	4796.7	5080.7	5398.0	5715.5	5902.1	6088.5
4198.4	30°	4323.7	4619.6	4915.4	5306.2	5697.1	5974.9	6253.0
4147.1	32.5°	4245.4	4523.5	4801.5	5243.7	5685.8	6066.4	6447.1
4420.8	35°	4443.7	4636.7	4829.9	5290.5	5751.3	6217.0	6682.9
5226.3	37.5°	5121.4	5133.9	5146.5	5565.2	5983.9	6532.0	7080.0
6559.9	40°	6304.8	6085.0	5865.2	6176.6	6488.0	7084.0	7680.0
8357.1	42.5°	7893.1	7413.7	6934.3	7113.7	7293.1	7884.4	8475.8
10536.1	45°	9773.7	9005.6	8237.6	8316.8	8395.9	8927.3	9458.5
12953.4	47.5°	11837.3	10729.6	9621.6	9637.7	9653.7	10170.6	10687.4
15356.1	50°	13882.8	12454.9	11027.1	11024.3	11021.6	11659.8	12298.2
17679.0	52.5°	15856.2	14150.6	12445.0	12523.3	12601.4	13374.2	14147.2
19948.6	55°	17775.5	15877.3	13979.1	14283.7	14588.4	15352.1	16115.7
22147.2	57.5°	19685.8	17769.0	15852.3	16463.3	17074.3	17490.4	17906.2
25025.7	60°	22390.4	20576.5	18762.6	19521.5	20280.3	19634.3	18988.3
27628.3	62.5°	25121.0	23459.2	21797.6	21883.2	21968.8	20203.8	18438.9
27962.1	65°	25530.9	23419.1	21307.4	20979.8	20652.1	18995.6	17339.1
26165.6	67.5°	23723.9	21523.9	19323.7	19170.1	19016.4	17440.9	15865.5
23696.2	70°	21594.9	19627.5	17659.9	17591.1	17522.4	15808.7	14095.1
20669.5	72.5°	19095.8	17556.5	16017.1	15967.8	15918.4	13951.8	11985.3
17255.6	75°	16147.8	14950.2	13752.5	13569.8	13387.1	11351.8	9316.5
13586.0	77.5°	12800.3	11889.9	10979.4	10717.9	10456.4	8556.3	6656.5
9991.0	80°	9578.3	8891.0	8203.4	7878.3	7553.3	5955.0	4356.6
6563.1	82.5°	6390.9	5917.7	5444.4	5081.2	4718.1	3625.2	2532.5
3767.2	85°	3669.5	3280.7	2891.9	2583.0	2274.2	1694.2	1114.2
1476.6	87.5°	1468.3	1273.9	1079.4	907.1	734.8	539.9	344.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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