

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: P953557

Luminaire Tested: **GALN-SB7A-827-U-SLR**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953557  
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-827-U-SLR  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

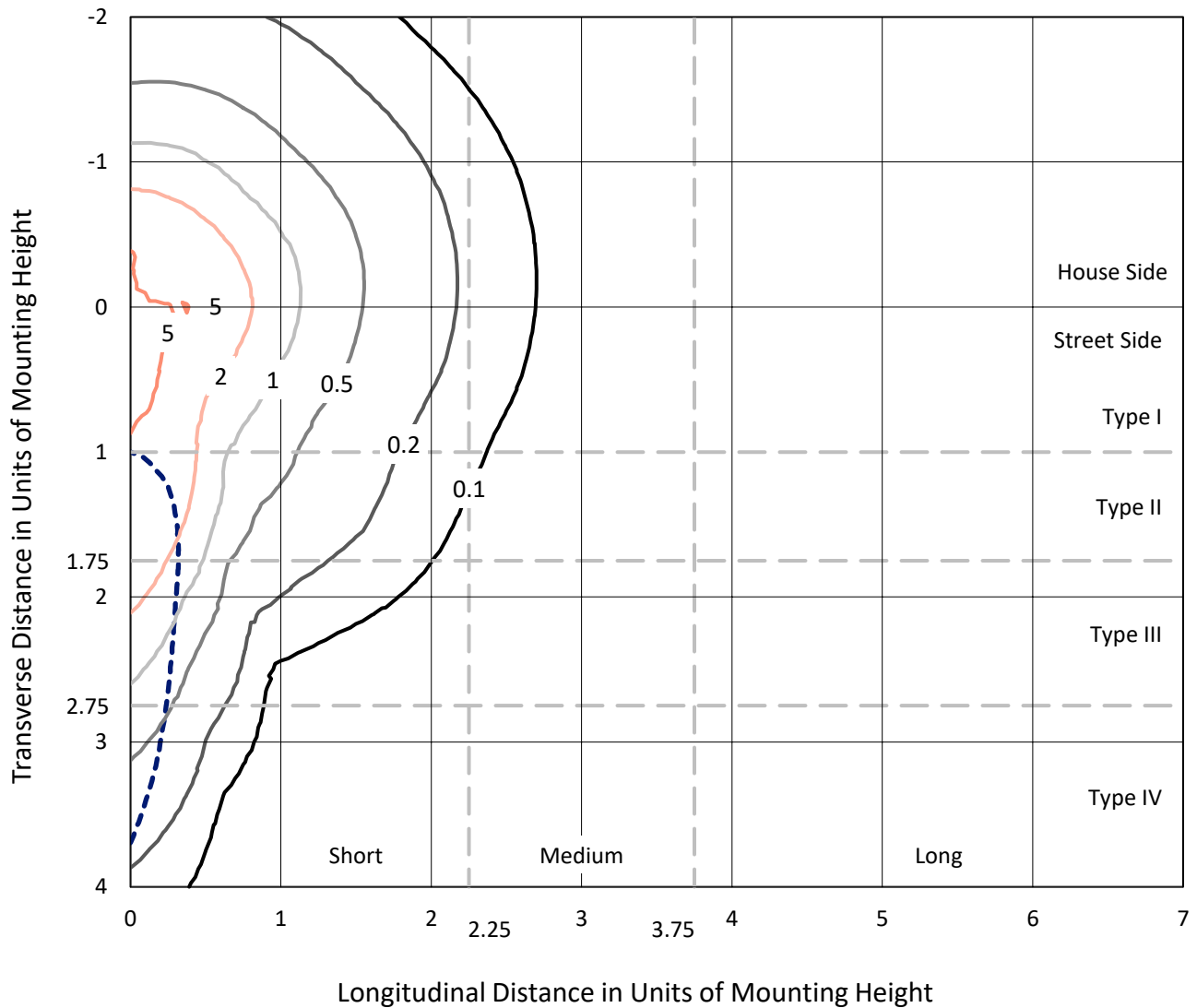
Lumens per Lamp: N/A  
Luminaire Lumens: 27641 lumens  
Efficiency: N/A  
Efficacy: 138.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

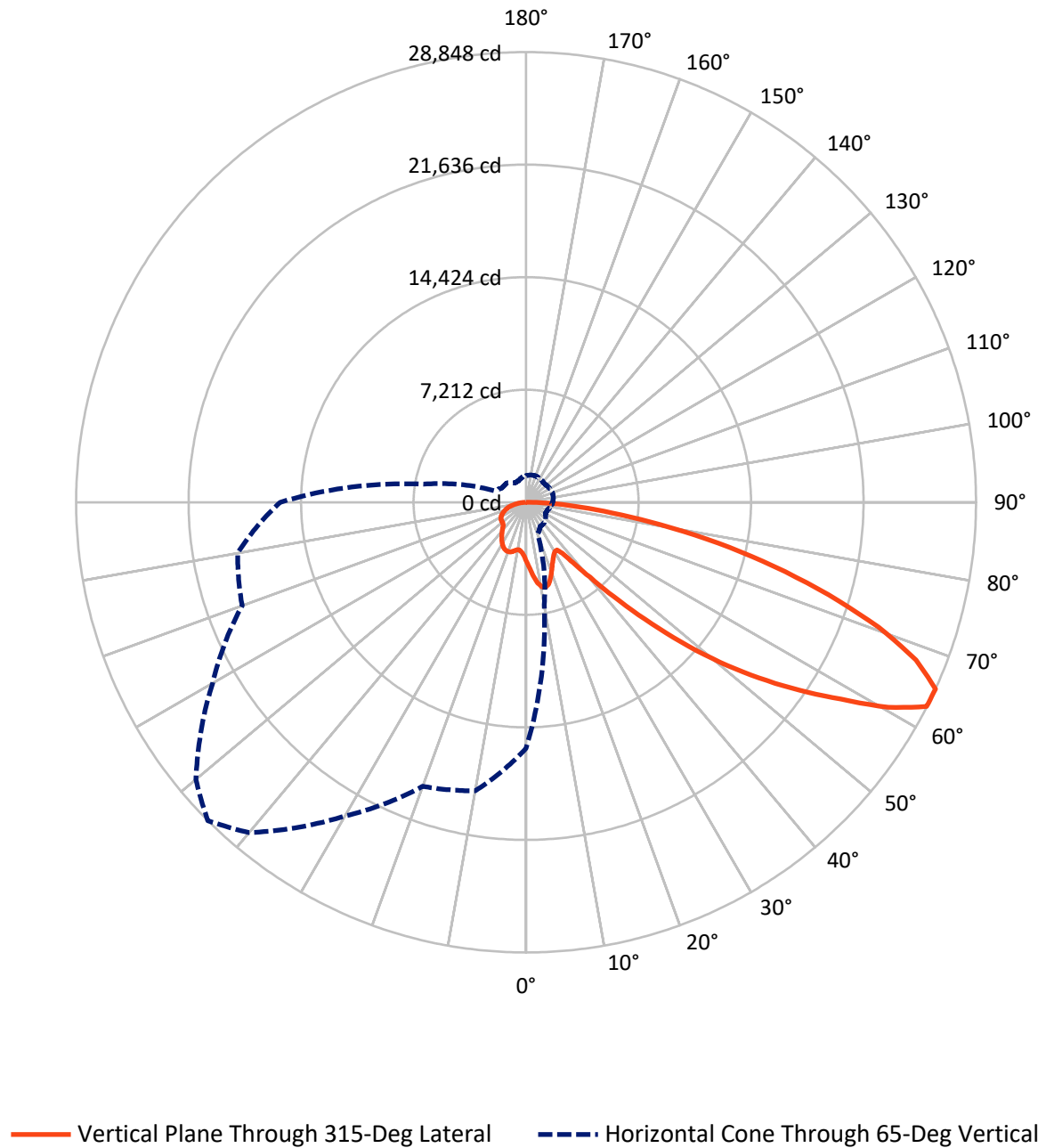
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	7025.0	0.0	7025.0
	% Fixture	25.4	0.0	25.4
<b>Street Side</b>	Lumens	20616.1	0.0	20616.1
	% Fixture	74.6	0.0	74.6
<b>Total</b>	Lumens	27641.0	0.0	27641.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	377.0	1.4
10°-20°	1183.6	4.3
20°-30°	1828.3	6.6
30°-40°	2316.9	8.4
40°-50°	3494.5	12.6
50°-60°	5645.8	20.4
60°-70°	7038.4	25.5
70°-80°	4615.4	16.7
80°-90°	1141.1	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°	27641.0	100.0
0°-180°	27641.0	100.0



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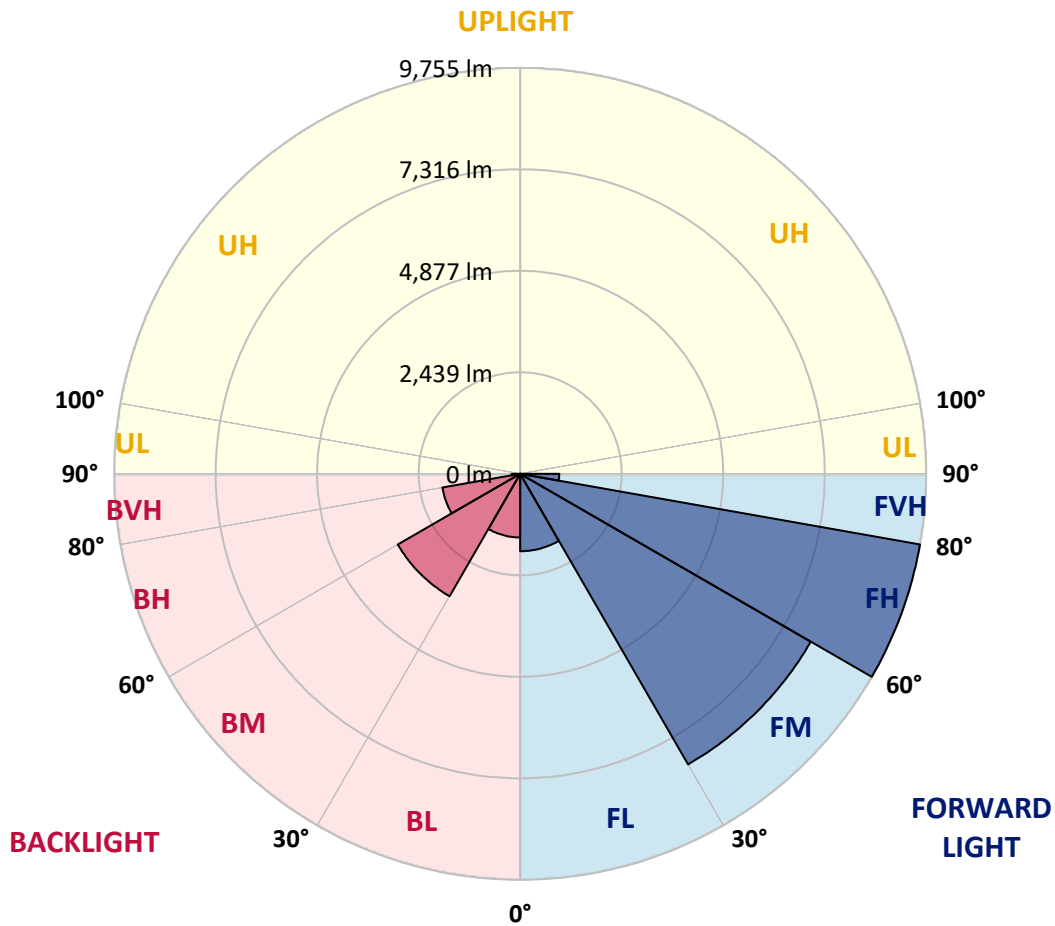
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1859.2	6.7			
FM (30°-60°)	8062.3	29.2			
FH (60°-80°)	9754.6	35.3			G4/12000
FVH (80°-90°)	940.0	3.4			G5
BL (0°-30°)	1529.8	5.5	B3/2500		
BM (30°-60°)	3394.9	12.3	B3/5000		
BH (60°-80°)	1899.2	6.9	B3/2500		G3/2500
BVH (80°-90°)	201.1	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9
2.5°	4087.5	4056.1	4024.8	3991.4	3958.1	3924.6	3891.0	3858.9	3826.8	3795.8
5°	4395.2	4325.9	4256.7	4187.5	4118.5	4049.0	3979.5	3914.6	3849.7	3788.5
7.5°	4704.4	4590.1	4475.9	4370.3	4264.7	4161.9	4059.0	3968.5	3877.9	3794.3
10°	4941.4	4796.9	4652.4	4512.8	4373.3	4248.5	4123.5	4016.4	3909.1	3806.0
12.5°	5086.6	4927.7	4769.0	4610.9	4452.8	4305.5	4158.2	4037.0	3915.8	3807.4
15°	5174.8	5009.3	4843.7	4672.2	4500.7	4331.0	4161.4	4021.1	3880.8	3760.8
17.5°	5224.4	5056.5	4888.6	4701.5	4514.4	4317.5	4120.6	3951.8	3783.1	3641.9
20°	5279.1	5104.6	4930.1	4724.4	4518.8	4280.1	4041.5	3832.4	3623.2	3458.9
22.5°	5342.5	5164.3	4985.9	4755.3	4524.6	4234.3	3944.1	3692.2	3440.3	3253.2
25°	5424.2	5249.5	5074.9	4811.3	4547.6	4189.1	3830.8	3535.7	3240.8	3049.0
27.5°	5535.0	5368.5	5201.8	4898.8	4595.8	4158.9	3722.1	3392.6	3063.2	2888.6
30°	5684.5	5523.5	5362.6	5012.2	4661.7	4144.8	3627.6	3273.0	2918.5	2771.9
32.5°	5861.0	5701.6	5542.3	5130.5	4718.6	4127.3	3535.7	3169.9	2804.0	2685.8
35°	6075.4	5922.9	5770.2	5265.2	4760.3	4094.3	3428.7	3068.6	2708.5	2610.0
37.5°	6436.4	6241.8	6047.3	5416.2	4785.1	4037.9	3290.7	2949.3	2607.8	2521.8
40°	6981.9	6698.4	6414.8	5607.8	4800.7	3960.1	3119.8	2806.9	2494.1	2416.0
42.5°	7705.3	7296.0	6886.8	5858.5	4830.3	3879.9	2929.9	2649.8	2369.8	2297.9
45°	8598.6	8046.6	7494.6	6188.5	4882.4	3805.4	2728.6	2483.0	2237.4	2164.4
47.5°	9715.9	8938.9	8161.8	6540.0	4918.1	3743.8	2569.6	2351.0	2132.3	2038.3
50°	11180.2	10008.9	8837.4	6866.1	4894.8	3676.8	2458.8	2263.3	2067.9	1944.2
52.5°	12861.1	11132.8	9404.5	7077.9	4751.1	3563.4	2375.9	2205.6	2035.3	1893.1
55°	14650.7	12129.3	9607.9	7031.2	4454.3	3375.6	2296.9	2163.7	2030.5	1898.3
57.5°	16278.4	12835.5	9392.5	6702.7	4013.1	3110.7	2208.2	2114.1	2020.0	1903.4
60°	17262.2	13011.9	8761.6	6091.5	3421.4	2766.8	2112.2	2038.3	1964.3	1887.3
62.5°	16762.6	12268.8	7775.0	5264.9	2754.8	2355.2	1955.6	1906.4	1857.4	1847.9
65°	15762.8	11217.4	6672.0	4421.6	2171.4	1984.9	1798.3	1775.2	1752.0	1753.1
67.5°	14423.2	9966.1	5509.1	3595.5	1682.0	1629.0	1575.9	1588.9	1601.7	1598.5
70°	12813.7	8600.8	4387.9	2831.0	1274.0	1289.2	1304.2	1364.3	1424.2	1424.2
72.5°	10895.8	7120.7	3345.8	2164.3	982.7	1028.4	1074.2	1159.4	1244.4	1258.7
75°	8469.6	5424.1	2378.5	1570.8	763.1	804.5	845.9	941.3	1036.7	1102.6
77.5°	6051.4	3796.4	1541.4	1064.4	587.5	615.6	643.9	736.5	829.2	937.8
80°	3960.6	2445.9	931.3	685.8	440.5	452.1	463.8	542.3	620.6	750.4
82.5°	2302.3	1415.6	529.1	421.8	314.7	316.8	319.1	376.9	434.6	545.5
85°	1012.9	636.8	260.8	225.5	190.3	189.3	188.1	230.4	272.7	355.1
87.5°	313.6	208.6	103.6	93.5	83.4	82.4	81.4	98.6	116.0	150.2
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):**

50°		55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
3800.9	0°	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9
3761.2	2.5°	3733.2	3705.3	3680.1	3655.0	3633.0	3611.0	3588.8	3566.8	3549.7	3532.5
3728.0	5°	3675.2	3622.2	3577.9	3533.7	3494.6	3455.5	3420.1	3384.5	3357.2	3329.8
3716.0	7.5°	3645.7	3575.5	3517.2	3458.9	3409.7	3360.4	3316.9	3273.6	3241.1	3208.7
3721.8	10°	3647.7	3573.6	3515.3	3457.0	3404.0	3350.9	3302.1	3253.2	3214.4	3175.5
3729.1	12.5°	3668.4	3608.1	3569.3	3530.8	3489.0	3447.6	3397.0	3346.5	3297.0	3247.4
3698.1	15°	3669.0	3640.1	3645.4	3650.6	3639.9	3629.1	3585.2	3541.3	3470.7	3400.1
3603.2	17.5°	3613.9	3624.4	3688.0	3751.6	3785.4	3819.1	3783.7	3748.4	3654.9	3561.4
3448.6	20°	3498.2	3547.8	3658.2	3768.8	3839.5	3910.3	3893.9	3877.4	3770.5	3663.8
3273.2	22.5°	3346.5	3419.9	3545.9	3672.2	3764.3	3856.3	3866.2	3876.0	3773.9	3671.8
3103.0	25°	3187.6	3272.2	3385.5	3499.0	3589.5	3680.1	3713.9	3747.6	3663.9	3580.3
2954.2	27.5°	3035.9	3117.6	3210.8	3303.8	3376.4	3449.1	3486.7	3524.5	3464.8	3405.3
2823.4	30°	2888.1	2953.2	3030.5	3107.8	3168.0	3228.4	3259.0	3289.7	3244.3	3198.8
2708.7	32.5°	2747.1	2785.5	2847.2	2909.0	2966.8	3024.7	3058.6	3092.8	3051.1	3009.2
2600.5	35°	2611.0	2621.7	2668.8	2715.7	2772.9	2830.2	2871.1	2911.9	2882.2	2852.6
2487.1	37.5°	2475.4	2463.7	2497.6	2531.2	2588.3	2645.4	2695.9	2746.4	2732.7	2719.0
2362.8	40°	2336.4	2310.0	2334.3	2358.7	2413.8	2469.0	2527.0	2585.2	2588.6	2591.8
2230.8	42.5°	2195.8	2160.8	2180.6	2200.6	2252.8	2305.2	2367.9	2430.6	2447.4	2464.2
2099.5	45°	2065.4	2031.4	2048.0	2065.0	2114.5	2164.1	2229.2	2294.2	2318.3	2342.4
1982.4	47.5°	1953.8	1925.2	1941.0	1956.6	2005.2	2053.6	2117.8	2181.9	2209.6	2237.4
1879.3	50°	1853.9	1828.7	1853.2	1877.8	1923.6	1969.3	2026.7	2084.2	2119.8	2155.4
1802.4	52.5°	1777.3	1752.4	1789.3	1826.1	1868.1	1909.9	1963.4	2017.1	2059.3	2101.4
1761.6	55°	1721.9	1682.4	1734.8	1787.0	1832.2	1877.4	1924.4	1971.2	2015.8	2060.6
1737.1	57.5°	1679.3	1621.6	1677.9	1734.2	1787.3	1840.3	1886.7	1933.3	1978.3	2023.2
1714.0	60°	1639.2	1564.3	1613.7	1663.0	1724.0	1784.9	1832.0	1879.3	1924.5	1969.7
1687.2	62.5°	1593.6	1500.1	1531.4	1562.8	1633.8	1705.0	1755.3	1805.6	1847.1	1888.5
1630.6	65°	1531.1	1431.5	1443.6	1455.6	1531.7	1608.0	1656.1	1704.3	1740.7	1777.2
1529.7	67.5°	1446.8	1364.0	1360.2	1356.4	1426.7	1497.2	1542.8	1588.3	1619.8	1651.3
1401.6	70°	1342.7	1283.8	1270.7	1257.5	1319.4	1381.2	1420.6	1460.0	1488.4	1516.8
1259.0	72.5°	1218.6	1178.2	1158.9	1139.8	1188.5	1237.1	1272.7	1308.3	1336.1	1364.0
1097.1	75°	1066.0	1034.8	1016.4	997.9	1034.1	1070.3	1102.5	1134.7	1160.1	1185.5
934.9	77.5°	910.0	885.0	866.4	847.7	877.1	906.5	934.2	961.9	988.6	1015.1
750.0	80°	729.1	708.1	692.5	676.7	701.3	725.6	748.9	772.3	792.6	812.7
551.6	82.5°	541.4	531.2	520.1	509.0	507.0	504.9	496.8	488.6	531.8	574.9
363.2	85°	352.2	341.3	328.9	316.5	306.0	295.3	272.7	250.1	290.5	331.1
160.4	87.5°	156.1	151.7	149.4	147.0	146.6	146.1	128.9	111.6	128.5	145.6
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):**

105°		110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
3800.9	0°	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9
3518.7	2.5°	3504.8	3494.0	3483.2	3473.3	3463.2	3450.8	3463.2	3473.3	3483.2	3494.0
3310.7	5°	3291.6	3278.0	3264.4	3254.1	3243.7	3233.5	3243.7	3254.1	3264.4	3278.0
3186.0	7.5°	3163.2	3147.6	3132.1	3122.8	3113.6	3106.6	3113.6	3122.8	3132.1	3147.6
3150.1	10°	3124.4	3109.7	3095.0	3087.1	3079.2	3076.0	3079.2	3087.1	3095.0	3109.7
3214.6	12.5°	3181.7	3165.3	3148.9	3142.2	3135.5	3134.3	3135.5	3142.2	3148.9	3165.3
3350.2	15°	3300.3	3277.4	3254.7	3245.9	3237.2	3236.4	3237.2	3245.9	3254.7	3277.4
3487.9	17.5°	3414.4	3380.5	3346.5	3335.5	3324.2	3322.5	3324.2	3335.5	3346.5	3380.5
3573.6	20°	3483.6	3440.3	3396.9	3383.0	3369.2	3364.8	3369.2	3383.0	3396.9	3440.3
3579.0	22.5°	3486.1	3440.5	3394.7	3379.4	3364.1	3357.5	3364.1	3379.4	3394.7	3440.5
3497.8	25°	3415.5	3375.9	3336.3	3321.9	3307.6	3299.1	3307.6	3321.9	3336.3	3375.9
3341.3	27.5°	3277.3	3250.7	3224.0	3217.5	3210.9	3208.7	3210.9	3217.5	3224.0	3250.7
3153.0	30°	3106.9	3093.4	3079.6	3079.6	3079.6	3081.8	3079.6	3079.6	3079.6	3093.4
2972.6	32.5°	2936.0	2927.1	2918.2	2919.4	2920.7	2922.9	2920.7	2919.4	2918.2	2927.1
2818.7	35°	2785.0	2771.5	2758.0	2755.1	2752.2	2750.7	2752.2	2755.1	2758.0	2771.5
2687.9	37.5°	2656.7	2632.0	2607.5	2594.5	2581.6	2574.3	2581.6	2594.5	2607.5	2632.0
2565.4	40°	2539.0	2503.1	2467.5	2443.3	2419.4	2405.1	2419.4	2443.3	2467.5	2503.1
2441.8	42.5°	2419.7	2375.2	2330.7	2295.5	2260.4	2237.4	2260.4	2295.5	2330.7	2375.2
2322.2	45°	2302.3	2251.4	2200.6	2159.3	2118.0	2091.5	2118.0	2159.3	2200.6	2251.4
2223.4	47.5°	2209.4	2164.1	2118.9	2080.7	2042.6	2017.1	2042.6	2080.7	2118.9	2164.1
2154.5	50°	2153.9	2117.8	2081.6	2046.3	2011.0	1986.5	2011.0	2046.3	2081.6	2117.8
2109.0	52.5°	2116.6	2087.1	2057.7	2026.0	1994.5	1971.9	1994.5	2026.0	2057.7	2087.1
2071.1	55°	2081.6	2055.9	2030.2	2002.5	1974.8	1954.4	1974.8	2002.5	2030.2	2055.9
2033.9	57.5°	2044.5	2018.6	1992.6	1965.2	1937.6	1916.5	1937.6	1965.2	1992.6	2018.6
1981.4	60°	1993.1	1967.7	1942.4	1914.1	1885.9	1864.0	1885.9	1914.1	1942.4	1967.7
1899.7	62.5°	1910.9	1888.0	1865.1	1835.4	1805.6	1779.4	1805.6	1835.4	1865.1	1888.0
1788.7	65°	1800.1	1778.1	1756.0	1727.2	1698.4	1675.8	1698.4	1727.2	1756.0	1778.1
1662.6	67.5°	1673.6	1653.4	1633.2	1606.4	1579.6	1559.1	1579.6	1606.4	1633.2	1653.4
1527.6	70°	1538.4	1522.0	1505.5	1479.8	1454.1	1430.8	1454.1	1479.8	1505.5	1522.0
1376.8	72.5°	1389.7	1376.0	1362.2	1337.7	1313.4	1290.8	1313.4	1337.7	1362.2	1376.0
1198.9	75°	1212.3	1205.6	1198.9	1178.3	1157.8	1136.2	1157.8	1178.3	1198.9	1205.6
1027.7	77.5°	1040.2	1030.9	1021.2	1000.5	979.8	962.6	979.8	1000.5	1021.2	1030.9
829.3	80°	845.9	841.9	837.9	810.1	782.1	749.7	782.1	810.1	837.9	841.9
603.2	82.5°	631.5	629.8	627.9	604.4	580.8	560.1	580.8	604.4	627.9	629.8
366.1	85°	401.1	398.2	395.3	376.9	358.5	339.8	358.5	376.9	395.3	398.2
159.7	87.5°	173.9	170.4	166.6	157.2	147.6	138.6	147.6	157.2	166.6	170.4
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-SB7A-827-U-SLR

**CANDELA DISTRIBUTION (continued):**

160°		165°	170°	175°	180°	185°	190°	195°	200°	205°	210°
3800.9	0°	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9
3504.8	2.5°	3518.7	3532.5	3549.7	3566.8	3588.8	3611.0	3633.0	3655.0	3680.1	3705.3
3291.6	5°	3310.7	3329.8	3357.2	3384.5	3420.1	3455.5	3494.6	3533.7	3577.9	3622.2
3163.2	7.5°	3186.0	3208.7	3241.1	3273.6	3316.9	3360.4	3409.7	3458.9	3517.2	3575.5
3124.4	10°	3150.1	3175.5	3214.4	3253.2	3302.1	3350.9	3404.0	3457.0	3515.3	3573.6
3181.7	12.5°	3214.6	3247.4	3297.0	3346.5	3397.0	3447.6	3489.0	3530.8	3569.3	3608.1
3300.3	15°	3350.2	3400.1	3470.7	3541.3	3585.2	3629.1	3639.9	3650.6	3645.4	3640.1
3414.4	17.5°	3487.9	3561.4	3654.9	3748.4	3783.7	3819.1	3785.4	3751.6	3688.0	3624.4
3483.6	20°	3573.6	3663.8	3770.5	3877.4	3893.9	3910.3	3839.5	3768.8	3658.2	3547.8
3486.1	22.5°	3579.0	3671.8	3773.9	3876.0	3866.2	3856.3	3764.3	3672.2	3545.9	3419.9
3415.5	25°	3497.8	3580.3	3663.9	3747.6	3713.9	3680.1	3589.5	3499.0	3385.5	3272.2
3277.3	27.5°	3341.3	3405.3	3464.8	3524.5	3486.7	3449.1	3376.4	3303.8	3210.8	3117.6
3106.9	30°	3153.0	3198.8	3244.3	3289.7	3259.0	3228.4	3168.0	3107.8	3030.5	2953.2
2936.0	32.5°	2972.6	3009.2	3051.1	3092.8	3058.6	3024.7	2966.8	2909.0	2847.2	2785.5
2785.0	35°	2818.7	2852.6	2882.2	2911.9	2871.1	2830.2	2772.9	2715.7	2668.8	2621.7
2656.7	37.5°	2687.9	2719.0	2732.7	2746.4	2695.9	2645.4	2588.3	2531.2	2497.6	2463.7
2539.0	40°	2565.4	2591.8	2588.6	2585.2	2527.0	2469.0	2413.8	2358.7	2334.3	2310.0
2419.7	42.5°	2441.8	2464.2	2447.4	2430.6	2367.9	2305.2	2252.8	2200.6	2180.6	2160.8
2302.3	45°	2322.2	2342.4	2318.3	2294.2	2229.2	2164.1	2114.5	2065.0	2048.0	2031.4
2209.4	47.5°	2223.4	2237.4	2209.6	2181.9	2117.8	2053.6	2005.2	1956.6	1941.0	1925.2
2153.9	50°	2154.5	2155.4	2119.8	2084.2	2026.7	1969.3	1923.6	1877.8	1853.2	1828.7
2116.6	52.5°	2109.0	2101.4	2059.3	2017.1	1963.4	1909.9	1868.1	1826.1	1789.3	1752.4
2081.6	55°	2071.1	2060.6	2015.8	1971.2	1924.4	1877.4	1832.2	1787.0	1734.8	1682.4
2044.5	57.5°	2033.9	2023.2	1978.3	1933.3	1886.7	1840.3	1787.3	1734.2	1677.9	1621.6
1993.1	60°	1981.4	1969.7	1924.5	1879.3	1832.0	1784.9	1724.0	1663.0	1613.7	1564.3
1910.9	62.5°	1899.7	1888.5	1847.1	1805.6	1755.3	1705.0	1633.8	1562.8	1531.4	1500.1
1800.1	65°	1788.7	1777.2	1740.7	1704.3	1656.1	1608.0	1531.7	1455.6	1443.6	1431.5
1673.6	67.5°	1662.6	1651.3	1619.8	1588.3	1542.8	1497.2	1426.7	1356.4	1360.2	1364.0
1538.4	70°	1527.6	1516.8	1488.4	1460.0	1420.6	1381.2	1319.4	1257.5	1270.7	1283.8
1389.7	72.5°	1376.8	1364.0	1336.1	1308.3	1272.7	1237.1	1188.5	1139.8	1158.9	1178.2
1212.3	75°	1198.9	1185.5	1160.1	1134.7	1102.5	1070.3	1034.1	997.9	1016.4	1034.8
1040.2	77.5°	1027.7	1015.1	988.6	961.9	934.2	906.5	877.1	847.7	866.4	885.0
845.9	80°	829.3	812.7	792.6	772.3	748.9	725.6	701.3	676.7	692.5	708.1
631.5	82.5°	603.2	574.9	531.8	488.6	496.8	504.9	507.0	509.0	520.1	531.2
401.1	85°	366.1	331.1	290.5	250.1	272.7	295.3	306.0	316.5	328.9	341.3
173.9	87.5°	159.7	145.6	128.5	111.6	128.9	146.1	146.6	147.0	149.4	151.7
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):**

215°		220°	225°	230°	235°	240°	245°	250°	255°	260°	265°
3800.9	0°	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9
3733.2	2.5°	3761.2	3795.8	3826.8	3858.9	3891.0	3924.6	3958.1	3991.4	4024.8	4056.1
3675.2	5°	3728.0	3788.5	3849.7	3914.6	3979.5	4049.0	4118.5	4187.5	4256.7	4325.9
3645.7	7.5°	3716.0	3794.3	3877.9	3968.5	4059.0	4161.9	4264.7	4370.3	4475.9	4590.1
3647.7	10°	3721.8	3806.0	3909.1	4016.4	4123.5	4248.5	4373.3	4512.8	4652.4	4796.9
3668.4	12.5°	3729.1	3807.4	3915.8	4037.0	4158.2	4305.5	4452.8	4610.9	4769.0	4927.7
3669.0	15°	3698.1	3760.8	3880.8	4021.1	4161.4	4331.0	4500.7	4672.2	4843.7	5009.3
3613.9	17.5°	3603.2	3641.9	3783.1	3951.8	4120.6	4317.5	4514.4	4701.5	4888.6	5056.5
3498.2	20°	3448.6	3458.9	3623.2	3832.4	4041.5	4280.1	4518.8	4724.4	4930.1	5104.6
3346.5	22.5°	3273.2	3253.2	3440.3	3692.2	3944.1	4234.3	4524.6	4755.3	4985.9	5164.3
3187.6	25°	3103.0	3049.0	3240.8	3535.7	3830.8	4189.1	4547.6	4811.3	5074.9	5249.5
3035.9	27.5°	2954.2	2888.6	3063.2	3392.6	3722.1	4158.9	4595.8	4898.8	5201.8	5368.5
2888.1	30°	2823.4	2771.9	2918.5	3273.0	3627.6	4144.8	4661.7	5012.2	5362.6	5523.5
2747.1	32.5°	2708.7	2685.8	2804.0	3169.9	3535.7	4127.3	4718.6	5130.5	5542.3	5701.6
2611.0	35°	2600.5	2610.0	2708.5	3068.6	3428.7	4094.3	4760.3	5265.2	5770.2	5922.9
2475.4	37.5°	2487.1	2521.8	2607.8	2949.3	3290.7	4037.9	4785.1	5416.2	6047.3	6241.8
2336.4	40°	2362.8	2416.0	2494.1	2806.9	3119.8	3960.1	4800.7	5607.8	6414.8	6698.4
2195.8	42.5°	2230.8	2297.9	2369.8	2649.8	2929.9	3879.9	4830.3	5858.5	6886.8	7296.0
2065.4	45°	2099.5	2164.4	2237.4	2483.0	2728.6	3805.4	4882.4	6188.5	7494.6	8046.6
1953.8	47.5°	1982.4	2038.3	2132.3	2351.0	2569.6	3743.8	4918.1	6540.0	8161.8	8938.9
1853.9	50°	1879.3	1944.2	2067.9	2263.3	2458.8	3676.8	4894.8	6866.1	8837.4	10008.9
1777.3	52.5°	1802.4	1893.1	2035.3	2205.6	2375.9	3563.4	4751.1	7077.9	9404.5	11132.8
1721.9	55°	1761.6	1898.3	2030.5	2163.7	2296.9	3375.6	4454.3	7031.2	9607.9	12129.3
1679.3	57.5°	1737.1	1903.4	2020.0	2114.1	2208.2	3110.7	4013.1	6702.7	9392.5	12835.5
1639.2	60°	1714.0	1887.3	1964.3	2038.3	2112.2	2766.8	3421.4	6091.5	8761.6	13011.9
1593.6	62.5°	1687.2	1847.9	1857.4	1906.4	1955.6	2355.2	2754.8	5264.9	7775.0	12268.8
1531.1	65°	1630.6	1753.1	1752.0	1775.2	1798.3	1984.9	2171.4	4421.6	6672.0	11217.4
1446.8	67.5°	1529.7	1598.5	1601.7	1588.9	1575.9	1629.0	1682.0	3595.5	5509.1	9966.1
1342.7	70°	1401.6	1424.2	1424.2	1364.3	1304.2	1289.2	1274.0	2831.0	4387.9	8600.8
1218.6	72.5°	1259.0	1258.7	1244.4	1159.4	1074.2	1028.4	982.7	2164.3	3345.8	7120.7
1066.0	75°	1097.1	1102.6	1036.7	941.3	845.9	804.5	763.1	1570.8	2378.5	5424.1
910.0	77.5°	934.9	937.8	829.2	736.5	643.9	615.6	587.5	1064.4	1541.4	3796.4
729.1	80°	750.0	750.4	620.6	542.3	463.8	452.1	440.5	685.8	931.3	2445.9
541.4	82.5°	551.6	545.5	434.6	376.9	319.1	316.8	314.7	421.8	529.1	1415.6
352.2	85°	363.2	355.1	272.7	230.4	188.1	189.3	190.3	225.5	260.8	636.8
156.1	87.5°	160.4	150.2	116.0	98.6	81.4	82.4	83.4	93.5	103.6	208.6
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):**

270°		275°	280°	285°	290°	295°	300°	305°	310°	315°	320°
3800.9	0°	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9
4087.5	2.5°	4102.9	4118.5	4140.6	4162.6	4175.7	4188.8	4195.4	4202.0	4199.0	4202.0
4395.2	5°	4449.3	4503.6	4557.3	4611.1	4640.2	4669.4	4687.1	4704.9	4718.3	4704.9
4704.4	7.5°	4792.5	4880.5	4959.7	5038.9	5086.6	5134.2	5160.1	5185.7	5198.1	5185.7
4941.4	10°	5045.6	5149.7	5242.6	5335.5	5391.8	5447.8	5472.9	5497.9	5507.3	5497.9
5086.6	12.5°	5199.4	5312.2	5396.2	5479.9	5520.7	5561.6	5575.3	5589.0	5590.5	5589.0
5174.8	15°	5272.2	5369.5	5422.2	5475.0	5476.4	5477.9	5463.3	5448.7	5431.5	5448.7
5224.4	17.5°	5290.2	5355.9	5357.0	5357.8	5298.8	5239.7	5185.6	5131.3	5093.1	5131.3
5279.1	20°	5302.0	5325.0	5255.7	5186.5	5056.1	4925.7	4830.7	4735.8	4677.4	4735.8
5342.5	22.5°	5312.5	5282.4	5138.9	4995.4	4803.6	4611.8	4493.1	4374.4	4309.9	4374.4
5424.2	25°	5329.4	5234.6	5016.7	4798.8	4565.9	4332.9	4208.1	4083.5	4022.6	4083.5
5535.0	27.5°	5365.6	5195.9	4907.3	4618.8	4360.7	4102.5	3979.7	3857.0	3799.4	3857.0
5684.5	30°	5431.8	5179.2	4823.9	4468.6	4199.6	3930.7	3816.8	3702.9	3649.2	3702.9
5861.0	32.5°	5514.9	5169.0	4767.0	4365.0	4112.3	3859.5	3770.1	3680.5	3641.9	3680.5
6075.4	35°	5651.9	5228.5	4809.6	4390.8	4215.2	4039.8	4018.9	3998.1	3994.9	3998.1
6436.4	37.5°	5938.2	5439.9	5059.3	4678.6	4667.2	4655.9	4751.2	4846.6	4896.2	4846.6
6981.9	40°	6440.0	5898.2	5615.1	5332.0	5531.8	5731.7	5963.6	6195.5	6311.0	6195.5
7705.3	42.5°	7167.7	6630.1	6467.0	6304.0	6739.8	7175.6	7597.4	8019.2	8266.8	8019.2
8598.6	45°	8115.7	7632.7	7560.8	7488.7	8186.9	8885.2	9578.3	10271.6	10692.3	10271.6
9715.9	47.5°	9246.1	8776.1	8761.6	8747.0	9754.2	10761.2	11775.9	12790.4	13386.2	12790.4
11180.2	50°	10599.9	10019.7	10022.1	10024.6	11322.7	12620.8	13960.1	15299.5	16109.2	15299.5
12861.1	52.5°	12158.4	11455.9	11384.8	11313.7	12864.2	14414.7	16071.9	17728.9	18699.5	17728.9
14650.7	55°	13956.5	13262.2	12985.3	12708.3	14434.0	16159.6	18135.1	20110.7	21265.1	20110.7
16278.4	57.5°	15900.4	15522.2	14966.6	14411.2	16153.7	17896.2	20133.8	22371.3	23802.9	22371.3
17262.2	60°	17849.4	18436.7	17746.9	17057.0	18706.0	20355.0	22750.7	25146.5	26693.6	25146.5
16762.6	62.5°	18367.2	19971.7	19893.9	19816.0	21326.6	22837.3	25116.7	27395.9	28826.0	27395.9
15762.8	65°	17268.8	18774.7	19072.6	19370.5	21290.2	23210.0	25420.2	27630.3	28847.9	27630.3
14423.2	67.5°	15855.5	17287.7	17427.4	17567.0	19567.2	21567.3	23787.0	26006.7	26960.5	26006.7
12813.7	70°	14371.6	15929.5	15992.0	16054.5	17843.3	19631.8	21542.0	23452.1	23982.3	23452.1
10895.8	72.5°	12683.5	14471.3	14516.3	14561.0	15960.5	17359.9	18790.6	20221.1	20274.7	20221.1
8469.6	75°	10319.8	12170.1	12336.2	12502.3	13591.1	14679.9	15687.0	16694.1	16424.3	16694.1
6051.4	77.5°	7778.5	9505.8	9743.6	9981.3	10809.0	11636.7	12350.9	13065.3	12601.5	13065.3
3960.6	80°	5413.7	6866.7	7162.2	7457.7	8082.8	8707.6	9082.7	9457.7	8711.7	9457.7
2302.3	82.5°	3295.6	4289.2	4619.2	4949.5	5379.7	5810.0	5966.5	6122.8	5536.5	6122.8
1012.9	85°	1540.2	2067.4	2348.2	2629.0	2982.5	3335.9	3424.7	3513.5	3043.9	3513.5
313.6	87.5°	490.8	668.0	824.6	981.3	1158.1	1334.8	1342.4	1349.9	1133.3	1349.9
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):**

325°		330°	335°	340°	345°	350°	355°	360°
3800.9	0°	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9
4195.4	2.5°	4188.8	4175.7	4162.6	4140.6	4118.5	4102.9	4087.5
4687.1	5°	4669.4	4640.2	4611.1	4557.3	4503.6	4449.3	4395.2
5160.1	7.5°	5134.2	5086.6	5038.9	4959.7	4880.5	4792.5	4704.4
5472.9	10°	5447.8	5391.8	5335.5	5242.6	5149.7	5045.6	4941.4
5575.3	12.5°	5561.6	5520.7	5479.9	5396.2	5312.2	5199.4	5086.6
5463.3	15°	5477.9	5476.4	5475.0	5422.2	5369.5	5272.2	5174.8
5185.6	17.5°	5239.7	5298.8	5357.8	5357.0	5355.9	5290.2	5224.4
4830.7	20°	4925.7	5056.1	5186.5	5255.7	5325.0	5302.0	5279.1
4493.1	22.5°	4611.8	4803.6	4995.4	5138.9	5282.4	5312.5	5342.5
4208.1	25°	4332.9	4565.9	4798.8	5016.7	5234.6	5329.4	5424.2
3979.7	27.5°	4102.5	4360.7	4618.8	4907.3	5195.9	5365.6	5535.0
3816.8	30°	3930.7	4199.6	4468.6	4823.9	5179.2	5431.8	5684.5
3770.1	32.5°	3859.5	4112.3	4365.0	4767.0	5169.0	5514.9	5861.0
4018.9	35°	4039.8	4215.2	4390.8	4809.6	5228.5	5651.9	6075.4
4751.2	37.5°	4655.9	4667.2	4678.6	5059.3	5439.9	5938.2	6436.4
5963.6	40°	5731.7	5531.8	5332.0	5615.1	5898.2	6440.0	6981.9
7597.4	42.5°	7175.6	6739.8	6304.0	6467.0	6630.1	7167.7	7705.3
9578.3	45°	8885.2	8186.9	7488.7	7560.8	7632.7	8115.7	8598.6
11775.9	47.5°	10761.2	9754.2	8747.0	8761.6	8776.1	9246.1	9715.9
13960.1	50°	12620.8	11322.7	10024.6	10022.1	10019.7	10599.9	11180.2
16071.9	52.5°	14414.7	12864.2	11313.7	11384.8	11455.9	12158.4	12861.1
18135.1	55°	16159.6	14434.0	12708.3	12985.3	13262.2	13956.5	14650.7
20133.8	57.5°	17896.2	16153.7	14411.2	14966.6	15522.2	15900.4	16278.4
22750.7	60°	20355.0	18706.0	17057.0	17746.9	18436.7	17849.4	17262.2
25116.7	62.5°	22837.3	21326.6	19816.0	19893.9	19971.7	18367.2	16762.6
25420.2	65°	23210.0	21290.2	19370.5	19072.6	18774.7	17268.8	15762.8
23787.0	67.5°	21567.3	19567.2	17567.0	17427.4	17287.7	15855.5	14423.2
21542.0	70°	19631.8	17843.3	16054.5	15992.0	15929.5	14371.6	12813.7
18790.6	72.5°	17359.9	15960.5	14561.0	14516.3	14471.3	12683.5	10895.8
15687.0	75°	14679.9	13591.1	12502.3	12336.2	12170.1	10319.8	8469.6
12350.9	77.5°	11636.7	10809.0	9981.3	9743.6	9505.8	7778.5	6051.4
9082.7	80°	8707.6	8082.8	7457.7	7162.2	6866.7	5413.7	3960.6
5966.5	82.5°	5810.0	5379.7	4949.5	4619.2	4289.2	3295.6	2302.3
3424.7	85°	3335.9	2982.5	2629.0	2348.2	2067.4	1540.2	1012.9
1342.4	87.5°	1334.8	1158.1	981.3	824.6	668.0	490.8	313.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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