

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: P954082

Luminaire Tested: **GALN-SB7B-940-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954082
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-SB7B-940-U-SLR
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28915 lumens
Efficiency: N/A
Efficacy: 112.6 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

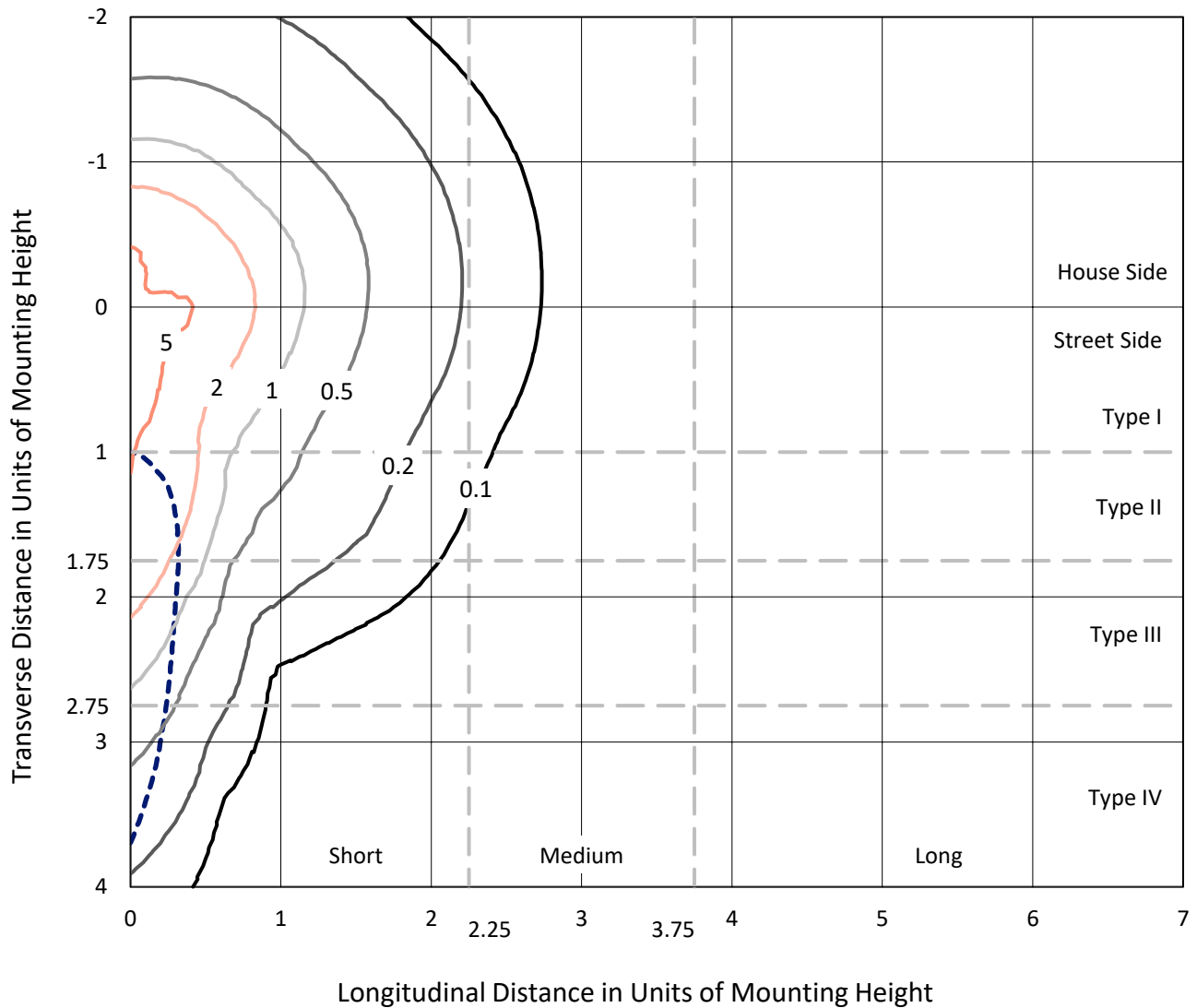
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954082
 CATALOG NUMBER: GALN-SB7B-940-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

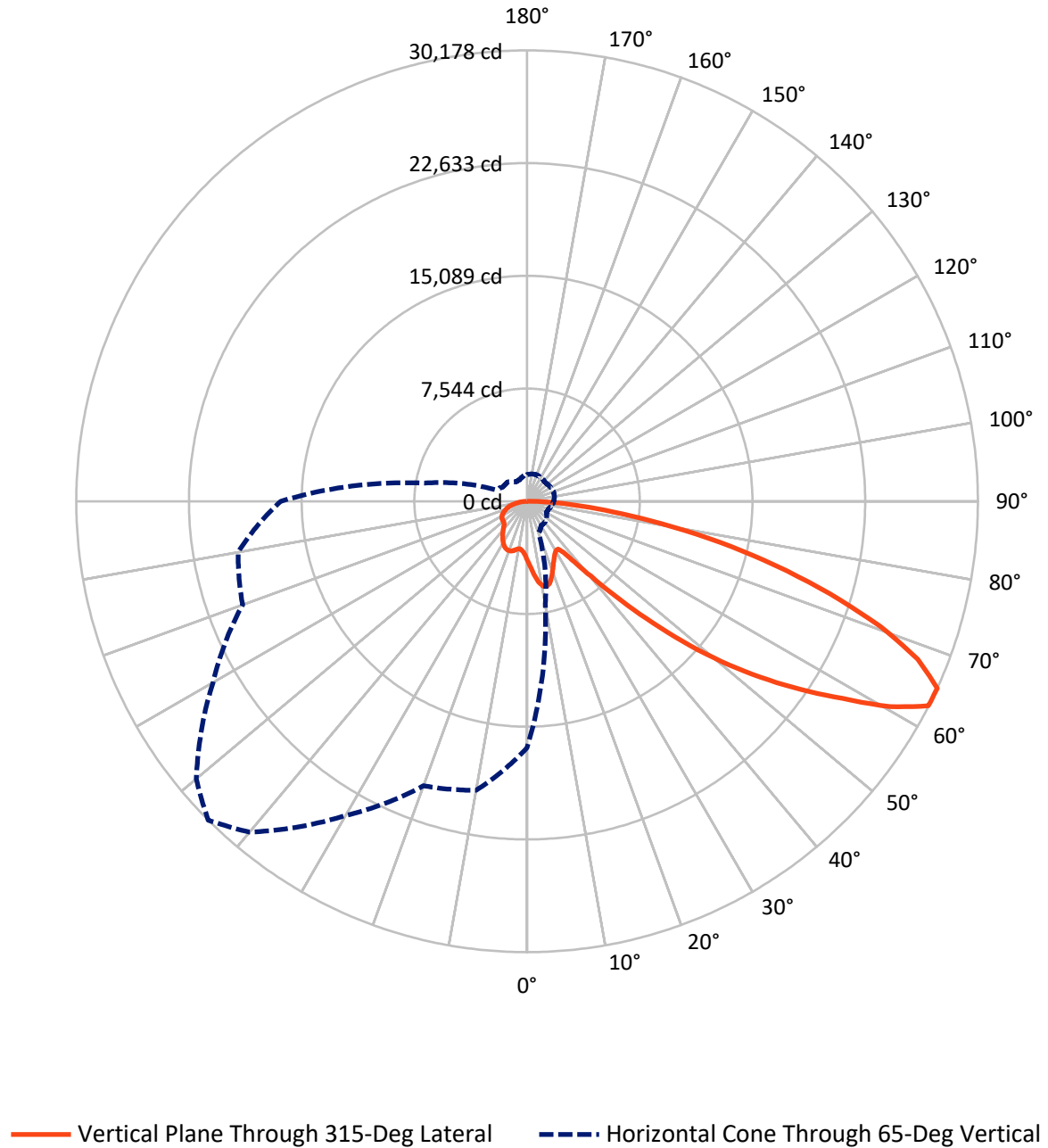
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P954082
CATALOG NUMBER: GALN-SB7B-940-U-SLR

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7348.7	0.0	7348.7
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	21566.3	0.0	21566.3
	% Fixture	74.6	0.0	74.6
Total	Lumens	28915.0	0.0	28915.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.4	1.4
10°-20°	1238.2	4.3
20°-30°	1912.5	6.6
30°-40°	2423.7	8.4
40°-50°	3655.5	12.6
50°-60°	5906.0	20.4
60°-70°	7362.8	25.5
70°-80°	4828.2	16.7
80°-90°	1193.6	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°	28915.0	100.0
0°-180°	28915.0	100.0



REPORT NUMBER: P954082

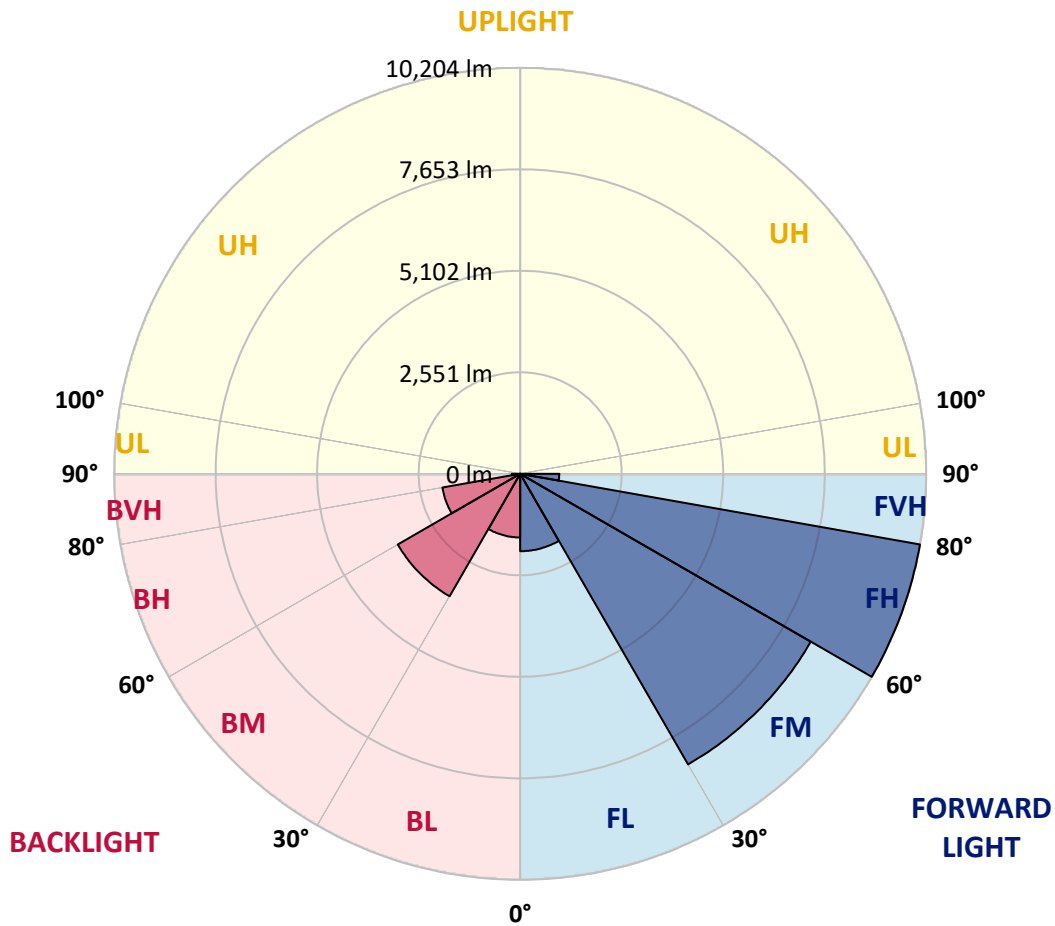
CATALOG NUMBER: GALN-SB7B-940-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1944.9	6.7			
FM (30°-60°)	8433.9	29.2			
FH (60°-80°)	10204.2	35.3			G4/12000
FVH (80°-90°)	983.3	3.4			G5
BL (0°-30°)	1600.3	5.5	B3/2500		
BM (30°-60°)	3551.4	12.3	B3/5000		
BH (60°-80°)	1986.8	6.9	B3/2500		G3/2500
BVH (80°-90°)	210.3	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: P954082

CATALOG NUMBER: GALN-SB7B-940-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1
2.5°	4275.9	4243.1	4210.3	4175.3	4140.5	4105.4	4070.4	4036.8	4003.2	3970.7
5°	4597.8	4525.3	4452.9	4380.5	4308.4	4235.6	4163.0	4095.1	4027.2	3963.1
7.5°	4921.3	4801.6	4682.2	4571.7	4461.2	4353.7	4246.1	4151.4	4056.6	3969.2
10°	5169.2	5018.0	4866.8	4720.8	4574.9	4444.3	4313.6	4201.6	4089.3	3981.4
12.5°	5321.0	5154.8	4988.8	4823.5	4658.1	4504.0	4349.9	4223.1	4096.3	3982.9
15°	5413.3	5240.1	5067.0	4887.5	4708.1	4530.7	4353.2	4206.4	4059.7	3934.1
17.5°	5465.2	5289.6	5114.0	4918.2	4722.5	4516.5	4310.5	4134.0	3957.4	3809.8
20°	5522.4	5339.9	5157.3	4942.2	4727.0	4477.4	4227.8	4009.0	3790.2	3618.3
22.5°	5588.8	5402.3	5215.7	4974.5	4733.1	4429.5	4125.9	3862.4	3598.9	3403.1
25°	5674.2	5491.4	5308.8	5033.1	4757.2	4382.2	4007.3	3698.7	3390.2	3189.5
27.5°	5790.2	5615.9	5441.5	5124.6	4807.6	4350.6	3893.7	3549.0	3204.3	3021.7
30°	5946.5	5778.1	5609.8	5243.2	4876.5	4335.8	3794.8	3423.9	3053.0	2899.7
32.5°	6131.2	5964.4	5797.8	5366.9	4936.1	4317.5	3698.7	3316.0	2933.2	2809.6
35°	6355.4	6195.9	6036.1	5507.9	4979.7	4283.0	3586.7	3210.0	2833.3	2730.3
37.5°	6733.1	6529.5	6326.0	5665.8	5005.6	4224.0	3442.4	3085.2	2728.0	2638.0
40°	7303.7	7007.1	6710.5	5866.3	5022.0	4142.7	3263.5	2936.3	2609.0	2527.4
42.5°	8060.5	7632.3	7204.2	6128.6	5052.9	4058.8	3064.9	2772.0	2479.0	2403.8
45°	8995.0	8417.5	7840.0	6473.7	5107.4	3980.8	2854.3	2597.4	2340.5	2264.2
47.5°	10163.7	9350.9	8538.0	6841.4	5144.8	3916.4	2688.0	2459.3	2230.6	2132.2
50°	11695.5	10470.2	9244.7	7182.5	5120.4	3846.2	2572.1	2367.6	2163.2	2033.8
52.5°	13453.9	11645.9	9837.9	7404.1	4970.1	3727.7	2485.4	2307.2	2129.2	1980.4
55°	15326.0	12688.3	10050.8	7355.3	4659.6	3531.2	2402.7	2263.4	2124.1	1985.7
57.5°	17028.7	13427.1	9825.4	7011.7	4198.1	3254.1	2310.0	2211.6	2113.1	1991.1
60°	18057.8	13611.7	9165.4	6372.2	3579.1	2894.3	2209.6	2132.2	2054.9	1974.3
62.5°	17535.3	12834.3	8133.4	5507.6	2881.8	2463.8	2045.7	1994.3	1943.0	1933.1
65°	16489.4	11734.4	6979.5	4625.4	2271.5	2076.4	1881.2	1857.0	1832.7	1833.9
67.5°	15088.0	10425.5	5763.0	3761.2	1759.5	1704.1	1648.6	1662.1	1675.6	1672.2
70°	13404.3	8997.3	4590.2	2961.4	1332.7	1348.6	1364.3	1427.2	1489.9	1489.9
72.5°	11398.0	7448.9	3500.0	2264.0	1028.0	1075.8	1123.7	1212.8	1301.8	1316.7
75°	8859.9	5674.1	2488.2	1643.2	798.3	841.6	884.9	984.7	1084.5	1153.5
77.5°	6330.3	3971.3	1612.4	1113.5	614.6	644.0	673.6	770.5	867.4	981.0
80°	4143.1	2558.7	974.2	717.4	460.8	473.0	485.2	567.3	649.2	785.0
82.5°	2408.4	1480.9	553.5	441.2	329.3	331.4	333.8	394.2	454.7	570.6
85°	1059.6	666.1	272.8	235.9	199.1	198.0	196.8	241.1	285.3	371.5
87.5°	328.0	218.2	108.3	97.8	87.3	86.2	85.1	103.1	121.3	157.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954082
 CATALOG NUMBER: GALN-SB7B-940-U-SLR

CANDELA DISTRIBUTION (continued):

50°		55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
3976.1	0°	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1
3934.6	2.5°	3905.3	3876.1	3849.7	3823.5	3800.4	3777.4	3754.2	3731.2	3713.3	3695.3
3899.8	5°	3844.5	3789.2	3742.8	3696.5	3655.7	3614.8	3577.7	3540.5	3511.9	3483.2
3887.3	7.5°	3813.7	3740.3	3679.3	3618.3	3566.9	3515.3	3469.8	3424.5	3390.5	3356.6
3893.4	10°	3815.9	3738.4	3677.3	3616.3	3560.9	3505.4	3454.3	3403.1	3362.6	3321.8
3901.0	12.5°	3837.5	3774.4	3733.8	3693.5	3649.9	3606.5	3553.6	3500.8	3448.9	3397.0
3868.5	15°	3838.1	3807.9	3813.4	3818.9	3807.6	3796.3	3750.4	3704.5	3630.6	3556.8
3769.3	17.5°	3780.5	3791.4	3858.0	3924.5	3959.9	3995.1	3958.1	3921.1	3823.3	3725.5
3607.6	20°	3659.5	3711.3	3826.8	3942.5	4016.5	4090.5	4073.4	4056.2	3944.3	3832.6
3424.1	22.5°	3500.8	3577.5	3709.4	3841.5	3937.8	4034.0	4044.4	4054.6	3947.8	3841.0
3246.0	25°	3334.5	3423.0	3541.5	3660.2	3755.0	3849.7	3885.1	3920.4	3832.8	3745.4
3090.4	27.5°	3175.8	3261.3	3358.7	3456.1	3532.1	3608.1	3647.4	3686.9	3624.5	3562.3
2953.5	30°	3021.3	3089.3	3170.2	3251.0	3314.0	3377.2	3409.3	3441.3	3393.8	3346.2
2833.6	32.5°	2873.7	2913.8	2978.4	3043.1	3103.5	3164.1	3199.6	3235.3	3191.7	3147.9
2720.4	35°	2731.4	2742.5	2791.8	2840.9	2900.7	2960.7	3003.4	3046.1	3015.0	2984.0
2601.7	37.5°	2589.5	2577.3	2612.7	2647.9	2707.6	2767.4	2820.2	2873.0	2858.6	2844.3
2471.7	40°	2444.1	2416.5	2441.9	2467.4	2525.1	2582.8	2643.5	2704.4	2707.9	2711.2
2333.6	42.5°	2297.0	2260.4	2281.1	2302.0	2356.6	2411.4	2477.0	2542.6	2560.2	2577.7
2196.3	45°	2160.6	2125.0	2142.4	2160.1	2212.0	2263.9	2331.9	2400.0	2425.2	2450.3
2073.8	47.5°	2043.9	2014.0	2030.4	2046.8	2097.6	2148.2	2215.4	2282.5	2311.5	2340.5
1965.9	50°	1939.4	1913.0	1938.6	1964.4	2012.3	2060.0	2120.2	2180.3	2217.5	2254.7
1885.5	52.5°	1859.3	1833.2	1871.8	1910.2	1954.2	1997.9	2053.9	2110.1	2154.2	2198.3
1842.8	55°	1801.3	1759.9	1814.7	1869.3	1916.6	1963.9	2013.1	2062.0	2108.7	2155.6
1817.1	57.5°	1756.7	1696.3	1755.2	1814.1	1869.6	1925.2	1973.7	2022.4	2069.5	2116.5
1793.0	60°	1714.8	1636.3	1688.1	1739.6	1803.4	1867.2	1916.5	1965.9	2013.2	2060.5
1765.0	62.5°	1667.0	1569.2	1602.0	1634.8	1709.1	1783.6	1836.2	1888.9	1932.2	1975.5
1705.8	65°	1601.7	1497.5	1510.2	1522.7	1602.3	1682.1	1732.5	1782.8	1821.0	1859.1
1600.2	67.5°	1513.5	1426.9	1422.9	1418.9	1492.5	1566.2	1613.9	1661.5	1694.5	1727.4
1466.2	70°	1404.6	1343.0	1329.2	1315.5	1380.2	1444.9	1486.1	1527.3	1557.0	1586.8
1317.0	72.5°	1274.8	1232.5	1212.3	1192.4	1243.3	1294.1	1331.4	1368.6	1397.7	1426.9
1147.7	75°	1115.2	1082.5	1063.3	1043.9	1081.7	1119.6	1153.3	1187.0	1213.6	1240.1
978.0	77.5°	951.9	925.8	906.3	886.8	917.6	948.2	977.2	1006.2	1034.1	1061.9
784.5	80°	762.7	740.7	724.4	707.9	733.6	759.1	783.5	807.9	829.1	850.1
577.0	82.5°	566.4	555.7	544.1	532.5	530.3	528.2	519.7	511.1	556.3	601.4
379.9	85°	368.5	357.0	344.1	331.1	320.1	309.0	285.3	261.7	303.9	346.3
167.8	87.5°	163.3	158.7	156.2	153.8	153.3	152.9	134.9	116.7	134.4	152.3
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: P954082
 CATALOG NUMBER: GALN-SB7B-940-U-SLR

CANDELA DISTRIBUTION (continued):

105°		110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
3976.1	0°	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1
3680.8	2.5°	3666.3	3655.0	3643.8	3633.4	3622.9	3609.9	3622.9	3633.4	3643.8	3655.0
3463.3	5°	3443.3	3429.1	3414.9	3404.1	3393.2	3382.6	3393.2	3404.1	3414.9	3429.1
3332.8	7.5°	3309.0	3292.7	3276.5	3266.7	3257.1	3249.8	3257.1	3266.7	3276.5	3292.7
3295.3	10°	3268.4	3253.0	3237.6	3229.4	3221.1	3217.8	3221.1	3229.4	3237.6	3253.0
3362.7	12.5°	3328.4	3311.1	3294.1	3287.0	3280.0	3278.8	3280.0	3287.0	3294.1	3311.1
3504.6	15°	3452.4	3428.5	3404.7	3395.5	3386.4	3385.6	3386.4	3395.5	3404.7	3428.5
3648.6	17.5°	3571.7	3536.3	3500.8	3489.2	3477.5	3475.6	3477.5	3489.2	3500.8	3536.3
3738.4	20°	3644.2	3598.9	3553.4	3538.9	3524.4	3519.9	3524.4	3538.9	3553.4	3598.9
3744.0	22.5°	3646.8	3599.1	3551.1	3535.1	3519.1	3512.2	3519.1	3535.1	3551.1	3599.1
3659.0	25°	3573.0	3531.5	3490.1	3475.0	3460.1	3451.2	3460.1	3475.0	3490.1	3531.5
3495.3	27.5°	3428.3	3400.6	3372.6	3365.8	3358.9	3356.6	3358.9	3365.8	3372.6	3400.6
3298.3	30°	3250.1	3235.9	3221.6	3221.6	3221.6	3223.9	3221.6	3221.6	3221.6	3235.9
3109.6	32.5°	3071.3	3062.0	3052.7	3053.9	3055.3	3057.6	3055.3	3053.9	3052.7	3062.0
2948.6	35°	2913.4	2899.2	2885.2	2882.1	2879.1	2877.5	2879.1	2882.1	2885.2	2899.2
2811.8	37.5°	2779.1	2753.3	2727.7	2714.1	2700.5	2692.9	2700.5	2714.1	2727.7	2753.3
2683.6	40°	2656.0	2618.5	2581.2	2555.9	2530.9	2515.9	2530.9	2555.9	2581.2	2618.5
2554.4	42.5°	2531.2	2484.7	2438.1	2401.4	2364.6	2340.5	2364.6	2401.4	2438.1	2484.7
2429.3	45°	2408.4	2355.1	2302.0	2258.8	2215.7	2187.9	2215.7	2258.8	2302.0	2355.1
2325.8	47.5°	2311.2	2263.9	2216.6	2176.6	2136.8	2110.1	2136.8	2176.6	2216.6	2263.9
2253.8	50°	2253.2	2215.4	2177.5	2140.6	2103.7	2078.0	2103.7	2140.6	2177.5	2215.4
2206.2	52.5°	2214.1	2183.3	2152.5	2119.4	2086.4	2062.8	2086.4	2119.4	2152.5	2183.3
2166.5	55°	2177.5	2150.7	2123.8	2094.8	2065.8	2044.5	2065.8	2094.8	2123.8	2150.7
2127.6	57.5°	2138.8	2111.6	2084.5	2055.8	2026.9	2004.8	2026.9	2055.8	2084.5	2111.6
2072.7	60°	2084.9	2058.4	2032.0	2002.4	1972.8	1949.9	1972.8	2002.4	2032.0	2058.4
1987.3	62.5°	1999.0	1975.1	1951.1	1920.0	1888.9	1861.4	1888.9	1920.0	1951.1	1975.1
1871.2	65°	1883.1	1860.0	1837.0	1806.8	1776.7	1753.1	1776.7	1806.8	1837.0	1860.0
1739.2	67.5°	1750.8	1729.6	1708.5	1680.4	1652.4	1631.0	1652.4	1680.4	1708.5	1729.6
1598.1	70°	1609.3	1592.1	1574.9	1548.0	1521.2	1496.7	1521.2	1548.0	1574.9	1592.1
1440.3	72.5°	1453.7	1439.4	1425.0	1399.4	1373.9	1350.3	1373.9	1399.4	1425.0	1439.4
1254.2	75°	1268.2	1261.2	1254.2	1232.6	1211.1	1188.5	1211.1	1232.6	1254.2	1261.2
1075.0	77.5°	1088.2	1078.4	1068.3	1046.7	1025.0	1007.0	1025.0	1046.7	1068.3	1078.4
867.5	80°	884.9	880.7	876.5	847.4	818.1	784.2	818.1	847.4	876.5	880.7
631.0	82.5°	660.6	658.8	656.8	632.3	607.5	585.9	607.5	632.3	656.8	658.8
383.0	85°	419.6	416.5	413.5	394.2	375.0	355.5	375.0	394.2	413.5	416.5
167.1	87.5°	181.9	178.2	174.2	164.5	154.4	144.9	154.4	164.5	174.2	178.2
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: P954082
 CATALOG NUMBER: GALN-SB7B-940-U-SLR

CANDELA DISTRIBUTION (continued):

160°		165°	170°	175°	180°	185°	190°	195°	200°	205°	210°
3976.1	0°	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1
3666.3	2.5°	3680.8	3695.3	3713.3	3731.2	3754.2	3777.4	3800.4	3823.5	3849.7	3876.1
3443.3	5°	3463.3	3483.2	3511.9	3540.5	3577.7	3614.8	3655.7	3696.5	3742.8	3789.2
3309.0	7.5°	3332.8	3356.6	3390.5	3424.5	3469.8	3515.3	3566.9	3618.3	3679.3	3740.3
3268.4	10°	3295.3	3321.8	3362.6	3403.1	3454.3	3505.4	3560.9	3616.3	3677.3	3738.4
3328.4	12.5°	3362.7	3397.0	3448.9	3500.8	3553.6	3606.5	3649.9	3693.5	3733.8	3774.4
3452.4	15°	3504.6	3556.8	3630.6	3704.5	3750.4	3796.3	3807.6	3818.9	3813.4	3807.9
3571.7	17.5°	3648.6	3725.5	3823.3	3921.1	3958.1	3995.1	3959.9	3924.5	3858.0	3791.4
3644.2	20°	3738.4	3832.6	3944.3	4056.2	4073.4	4090.5	4016.5	3942.5	3826.8	3711.3
3646.8	22.5°	3744.0	3841.0	3947.8	4054.6	4044.4	4034.0	3937.8	3841.5	3709.4	3577.5
3573.0	25°	3659.0	3745.4	3832.8	3920.4	3885.1	3849.7	3755.0	3660.2	3541.5	3423.0
3428.3	27.5°	3495.3	3562.3	3624.5	3686.9	3647.4	3608.1	3532.1	3456.1	3358.7	3261.3
3250.1	30°	3298.3	3346.2	3393.8	3441.3	3409.3	3377.2	3314.0	3251.0	3170.2	3089.3
3071.3	32.5°	3109.6	3147.9	3191.7	3235.3	3199.6	3164.1	3103.5	3043.1	2978.4	2913.8
2913.4	35°	2948.6	2984.0	3015.0	3046.1	3003.4	2960.7	2900.7	2840.9	2791.8	2742.5
2779.1	37.5°	2811.8	2844.3	2858.6	2873.0	2820.2	2767.4	2707.6	2647.9	2612.7	2577.3
2656.0	40°	2683.6	2711.2	2707.9	2704.4	2643.5	2582.8	2525.1	2467.4	2441.9	2416.5
2531.2	42.5°	2554.4	2577.7	2560.2	2542.6	2477.0	2411.4	2356.6	2302.0	2281.1	2260.4
2408.4	45°	2429.3	2450.3	2425.2	2400.0	2331.9	2263.9	2212.0	2160.1	2142.4	2125.0
2311.2	47.5°	2325.8	2340.5	2311.5	2282.5	2215.4	2148.2	2097.6	2046.8	2030.4	2014.0
2253.2	50°	2253.8	2254.7	2217.5	2180.3	2120.2	2060.0	2012.3	1964.4	1938.6	1913.0
2214.1	52.5°	2206.2	2198.3	2154.2	2110.1	2053.9	1997.9	1954.2	1910.2	1871.8	1833.2
2177.5	55°	2166.5	2155.6	2108.7	2062.0	2013.1	1963.9	1916.6	1869.3	1814.7	1759.9
2138.8	57.5°	2127.6	2116.5	2069.5	2022.4	1973.7	1925.2	1869.6	1814.1	1755.2	1696.3
2084.9	60°	2072.7	2060.5	2013.2	1965.9	1916.5	1867.2	1803.4	1739.6	1688.1	1636.3
1999.0	62.5°	1987.3	1975.5	1932.2	1888.9	1836.2	1783.6	1709.1	1634.8	1602.0	1569.2
1883.1	65°	1871.2	1859.1	1821.0	1782.8	1732.5	1682.1	1602.3	1522.7	1510.2	1497.5
1750.8	67.5°	1739.2	1727.4	1694.5	1661.5	1613.9	1566.2	1492.5	1418.9	1422.9	1426.9
1609.3	70°	1598.1	1586.8	1557.0	1527.3	1486.1	1444.9	1380.2	1315.5	1329.2	1343.0
1453.7	72.5°	1440.3	1426.9	1397.7	1368.6	1331.4	1294.1	1243.3	1192.4	1212.3	1232.5
1268.2	75°	1254.2	1240.1	1213.6	1187.0	1153.3	1119.6	1081.7	1043.9	1063.3	1082.5
1088.2	77.5°	1075.0	1061.9	1034.1	1006.2	977.2	948.2	917.6	886.8	906.3	925.8
884.9	80°	867.5	850.1	829.1	807.9	783.5	759.1	733.6	707.9	724.4	740.7
660.6	82.5°	631.0	601.4	556.3	511.1	519.7	528.2	530.3	532.5	544.1	555.7
419.6	85°	383.0	346.3	303.9	261.7	285.3	309.0	320.1	331.1	344.1	357.0
181.9	87.5°	167.1	152.3	134.4	116.7	134.9	152.9	153.3	153.8	156.2	158.7
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: P954082
 CATALOG NUMBER: GALN-SB7B-940-U-SLR

CANDELA DISTRIBUTION (continued):

215°		220°	225°	230°	235°	240°	245°	250°	255°	260°	265°
3976.1	0°	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1
3905.3	2.5°	3934.6	3970.7	4003.2	4036.8	4070.4	4105.4	4140.5	4175.3	4210.3	4243.1
3844.5	5°	3899.8	3963.1	4027.2	4095.1	4163.0	4235.6	4308.4	4380.5	4452.9	4525.3
3813.7	7.5°	3887.3	3969.2	4056.6	4151.4	4246.1	4353.7	4461.2	4571.7	4682.2	4801.6
3815.9	10°	3893.4	3981.4	4089.3	4201.6	4313.6	4444.3	4574.9	4720.8	4866.8	5018.0
3837.5	12.5°	3901.0	3982.9	4096.3	4223.1	4349.9	4504.0	4658.1	4823.5	4988.8	5154.8
3838.1	15°	3868.5	3934.1	4059.7	4206.4	4353.2	4530.7	4708.1	4887.5	5067.0	5240.1
3780.5	17.5°	3769.3	3809.8	3957.4	4134.0	4310.5	4516.5	4722.5	4918.2	5114.0	5289.6
3659.5	20°	3607.6	3618.3	3790.2	4009.0	4227.8	4477.4	4727.0	4942.2	5157.3	5339.9
3500.8	22.5°	3424.1	3403.1	3598.9	3862.4	4125.9	4429.5	4733.1	4974.5	5215.7	5402.3
3334.5	25°	3246.0	3189.5	3390.2	3698.7	4007.3	4382.2	4757.2	5033.1	5308.8	5491.4
3175.8	27.5°	3090.4	3021.7	3204.3	3549.0	3893.7	4350.6	4807.6	5124.6	5441.5	5615.9
3021.3	30°	2953.5	2899.7	3053.0	3423.9	3794.8	4335.8	4876.5	5243.2	5609.8	5778.1
2873.7	32.5°	2833.6	2809.6	2933.2	3316.0	3698.7	4317.5	4936.1	5366.9	5797.8	5964.4
2731.4	35°	2720.4	2730.3	2833.3	3210.0	3586.7	4283.0	4979.7	5507.9	6036.1	6195.9
2589.5	37.5°	2601.7	2638.0	2728.0	3085.2	3442.4	4224.0	5005.6	5665.8	6326.0	6529.5
2444.1	40°	2471.7	2527.4	2609.0	2936.3	3263.5	4142.7	5022.0	5866.3	6710.5	7007.1
2297.0	42.5°	2333.6	2403.8	2479.0	2772.0	3064.9	4058.8	5052.9	6128.6	7204.2	7632.3
2160.6	45°	2196.3	2264.2	2340.5	2597.4	2854.3	3980.8	5107.4	6473.7	7840.0	8417.5
2043.9	47.5°	2073.8	2132.2	2230.6	2459.3	2688.0	3916.4	5144.8	6841.4	8538.0	9350.9
1939.4	50°	1965.9	2033.8	2163.2	2367.6	2572.1	3846.2	5120.4	7182.5	9244.7	10470.2
1859.3	52.5°	1885.5	1980.4	2129.2	2307.2	2485.4	3727.7	4970.1	7404.1	9837.9	11645.9
1801.3	55°	1842.8	1985.7	2124.1	2263.4	2402.7	3531.2	4659.6	7355.3	10050.8	12688.3
1756.7	57.5°	1817.1	1991.1	2113.1	2211.6	2310.0	3254.1	4198.1	7011.7	9825.4	13427.1
1714.8	60°	1793.0	1974.3	2054.9	2132.2	2209.6	2894.3	3579.1	6372.2	9165.4	13611.7
1667.0	62.5°	1765.0	1933.1	1943.0	1994.3	2045.7	2463.8	2881.8	5507.6	8133.4	12834.3
1601.7	65°	1705.8	1833.9	1832.7	1857.0	1881.2	2076.4	2271.5	4625.4	6979.5	11734.4
1513.5	67.5°	1600.2	1672.2	1675.6	1662.1	1648.6	1704.1	1759.5	3761.2	5763.0	10425.5
1404.6	70°	1466.2	1489.9	1489.9	1427.2	1364.3	1348.6	1332.7	2961.4	4590.2	8997.3
1274.8	72.5°	1317.0	1316.7	1301.8	1212.8	1123.7	1075.8	1028.0	2264.0	3500.0	7448.9
1115.2	75°	1147.7	1153.5	1084.5	984.7	884.9	841.6	798.3	1643.2	2488.2	5674.1
951.9	77.5°	978.0	981.0	867.4	770.5	673.6	644.0	614.6	1113.5	1612.4	3971.3
762.7	80°	784.5	785.0	649.2	567.3	485.2	473.0	460.8	717.4	974.2	2558.7
566.4	82.5°	577.0	570.6	454.7	394.2	333.8	331.4	329.3	441.2	553.5	1480.9
368.5	85°	379.9	371.5	285.3	241.1	196.8	198.0	199.1	235.9	272.8	666.1
163.3	87.5°	167.8	157.2	121.3	103.1	85.1	86.2	87.3	97.8	108.3	218.2
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: P954082
 CATALOG NUMBER: GALN-SB7B-940-U-SLR

CANDELA DISTRIBUTION (continued):

270°		275°	280°	285°	290°	295°	300°	305°	310°	315°	320°
3976.1	0°	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1
4275.9	2.5°	4292.0	4308.4	4331.4	4354.4	4368.2	4381.9	4388.8	4395.6	4392.6	4395.6
4597.8	5°	4654.4	4711.2	4767.3	4823.6	4854.1	4884.6	4903.1	4921.7	4935.7	4921.7
4921.3	7.5°	5013.4	5105.4	5188.3	5271.1	5321.0	5370.9	5397.9	5424.7	5437.7	5424.7
5169.2	10°	5278.1	5387.1	5484.2	5581.4	5640.3	5698.9	5725.2	5751.3	5761.2	5751.3
5321.0	12.5°	5439.1	5557.0	5644.9	5732.5	5775.2	5817.9	5832.3	5846.6	5848.1	5846.6
5413.3	15°	5515.2	5617.0	5672.1	5727.3	5728.8	5730.3	5715.1	5699.8	5681.8	5699.8
5465.2	17.5°	5534.0	5602.8	5603.9	5604.8	5543.0	5481.2	5424.6	5367.8	5327.9	5367.8
5522.4	20°	5546.3	5570.5	5498.0	5425.5	5289.1	5152.7	5053.4	4954.1	4893.0	4954.1
5588.8	22.5°	5557.3	5525.9	5375.8	5225.6	5025.0	4824.4	4700.2	4576.0	4508.5	4576.0
5674.2	25°	5575.0	5475.9	5247.9	5020.0	4776.3	4532.6	4402.0	4271.7	4208.0	4271.7
5790.2	27.5°	5612.9	5435.4	5133.5	4831.7	4561.6	4291.6	4163.1	4034.8	3974.5	4034.8
5946.5	30°	5682.1	5417.9	5046.2	4674.5	4393.2	4111.9	3992.7	3873.5	3817.4	3873.5
6131.2	32.5°	5769.1	5407.2	4986.7	4566.2	4301.8	4037.4	3943.9	3850.2	3809.8	3850.2
6355.4	35°	5912.4	5469.4	5031.3	4593.2	4409.5	4226.0	4204.2	4182.3	4179.0	4182.3
6733.1	37.5°	6211.9	5690.7	5292.5	4894.2	4882.3	4870.4	4970.2	5070.0	5121.9	5070.0
7303.7	40°	6736.9	6170.1	5873.9	5577.8	5786.8	5995.8	6238.4	6481.0	6601.8	6481.0
8060.5	42.5°	7498.1	6935.7	6765.1	6594.5	7050.4	7506.3	7947.5	8388.8	8647.9	8388.8
8995.0	45°	8489.8	7984.5	7909.2	7833.9	8564.2	9294.8	10019.8	10745.0	11185.2	10745.0
10163.7	47.5°	9672.2	9180.6	9165.4	9150.1	10203.8	11257.2	12318.6	13379.9	14003.2	13379.9
11695.5	50°	11088.4	10481.5	10484.1	10486.7	11844.6	13202.5	14603.6	16004.6	16851.7	16004.6
13453.9	52.5°	12718.8	11983.9	11909.6	11835.1	13457.1	15079.1	16812.7	18546.1	19561.4	18546.1
15326.0	55°	14599.7	13873.5	13583.8	13294.0	15099.3	16904.4	18971.0	21037.6	22245.2	21037.6
17028.7	57.5°	16633.2	16237.6	15656.5	15075.5	16898.3	18721.1	21061.8	23402.5	24900.0	23402.5
18057.8	60°	18672.1	19286.5	18564.8	17843.1	19568.1	21293.1	23799.3	26305.5	27924.0	26305.5
17535.3	62.5°	19213.7	20892.2	20810.9	20729.4	22309.6	23889.9	26274.4	28658.6	30154.6	28658.6
16489.4	65°	18064.7	19640.0	19951.7	20263.3	22271.4	24279.8	26591.9	28903.8	30177.5	28903.8
15088.0	67.5°	16586.2	18084.5	18230.7	18376.7	20469.1	22561.3	24883.3	27205.4	28203.2	27205.4
13404.3	70°	15034.0	16663.8	16729.1	16794.5	18665.7	20536.7	22534.9	24533.0	25087.6	24533.0
11398.0	72.5°	13268.1	15138.3	15185.3	15232.2	16696.1	18160.0	19656.6	21153.1	21209.2	21153.1
8859.9	75°	10795.5	12731.0	12904.8	13078.6	14217.5	15356.5	16410.0	17463.5	17181.3	17463.5
6330.3	77.5°	8137.0	9944.0	10192.7	10441.4	11307.2	12173.1	12920.2	13667.5	13182.3	13667.5
4143.1	80°	5663.2	7183.2	7492.3	7801.4	8455.3	9108.9	9501.4	9893.6	9113.2	9893.6
2408.4	82.5°	3447.5	4486.9	4832.2	5177.6	5627.7	6077.8	6241.5	6405.0	5791.7	6405.0
1059.6	85°	1611.2	2162.7	2456.4	2750.1	3120.0	3489.7	3582.6	3675.5	3184.2	3675.5
328.0	87.5°	513.4	698.8	862.6	1026.5	1211.4	1396.4	1404.3	1412.1	1185.5	1412.1
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: P954082
 CATALOG NUMBER: GALN-SB7B-940-U-SLR

CANDELA DISTRIBUTION (continued):

325°		330°	335°	340°	345°	350°	355°	360°
3976.1	0°	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1	3976.1
4388.8	2.5°	4381.9	4368.2	4354.4	4331.4	4308.4	4292.0	4275.9
4903.1	5°	4884.6	4854.1	4823.6	4767.3	4711.2	4654.4	4597.8
5397.9	7.5°	5370.9	5321.0	5271.1	5188.3	5105.4	5013.4	4921.3
5725.2	10°	5698.9	5640.3	5581.4	5484.2	5387.1	5278.1	5169.2
5832.3	12.5°	5817.9	5775.2	5732.5	5644.9	5557.0	5439.1	5321.0
5715.1	15°	5730.3	5728.8	5727.3	5672.1	5617.0	5515.2	5413.3
5424.6	17.5°	5481.2	5543.0	5604.8	5603.9	5602.8	5534.0	5465.2
5053.4	20°	5152.7	5289.1	5425.5	5498.0	5570.5	5546.3	5522.4
4700.2	22.5°	4824.4	5025.0	5225.6	5375.8	5525.9	5557.3	5588.8
4402.0	25°	4532.6	4776.3	5020.0	5247.9	5475.9	5575.0	5674.2
4163.1	27.5°	4291.6	4561.6	4831.7	5133.5	5435.4	5612.9	5790.2
3992.7	30°	4111.9	4393.2	4674.5	5046.2	5417.9	5682.1	5946.5
3943.9	32.5°	4037.4	4301.8	4566.2	4986.7	5407.2	5769.1	6131.2
4204.2	35°	4226.0	4409.5	4593.2	5031.3	5469.4	5912.4	6355.4
4970.2	37.5°	4870.4	4882.3	4894.2	5292.5	5690.7	6211.9	6733.1
6238.4	40°	5995.8	5786.8	5577.8	5873.9	6170.1	6736.9	7303.7
7947.5	42.5°	7506.3	7050.4	6594.5	6765.1	6935.7	7498.1	8060.5
10019.8	45°	9294.8	8564.2	7833.9	7909.2	7984.5	8489.8	8995.0
12318.6	47.5°	11257.2	10203.8	9150.1	9165.4	9180.6	9672.2	10163.7
14603.6	50°	13202.5	11844.6	10486.7	10484.1	10481.5	11088.4	11695.5
16812.7	52.5°	15079.1	13457.1	11835.1	11909.6	11983.9	12718.8	13453.9
18971.0	55°	16904.4	15099.3	13294.0	13583.8	13873.5	14599.7	15326.0
21061.8	57.5°	18721.1	16898.3	15075.5	15656.5	16237.6	16633.2	17028.7
23799.3	60°	21293.1	19568.1	17843.1	18564.8	19286.5	18672.1	18057.8
26274.4	62.5°	23889.9	22309.6	20729.4	20810.9	20892.2	19213.7	17535.3
26591.9	65°	24279.8	22271.4	20263.3	19951.7	19640.0	18064.7	16489.4
24883.3	67.5°	22561.3	20469.1	18376.7	18230.7	18084.5	16586.2	15088.0
22534.9	70°	20536.7	18665.7	16794.5	16729.1	16663.8	15034.0	13404.3
19656.6	72.5°	18160.0	16696.1	15232.2	15185.3	15138.3	13268.1	11398.0
16410.0	75°	15356.5	14217.5	13078.6	12904.8	12731.0	10795.5	8859.9
12920.2	77.5°	12173.1	11307.2	10441.4	10192.7	9944.0	8137.0	6330.3
9501.4	80°	9108.9	8455.3	7801.4	7492.3	7183.2	5663.2	4143.1
6241.5	82.5°	6077.8	5627.7	5177.6	4832.2	4486.9	3447.5	2408.4
3582.6	85°	3489.7	3120.0	2750.1	2456.4	2162.7	1611.2	1059.6
1404.3	87.5°	1396.4	1211.4	1026.5	862.6	698.8	513.4	328.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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