

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: P949609

Luminaire Tested: **GALN-SB4B-760-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949609
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-SB4B-760-U-SLR
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23791 lumens
Efficiency: N/A
Efficacy: 161.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

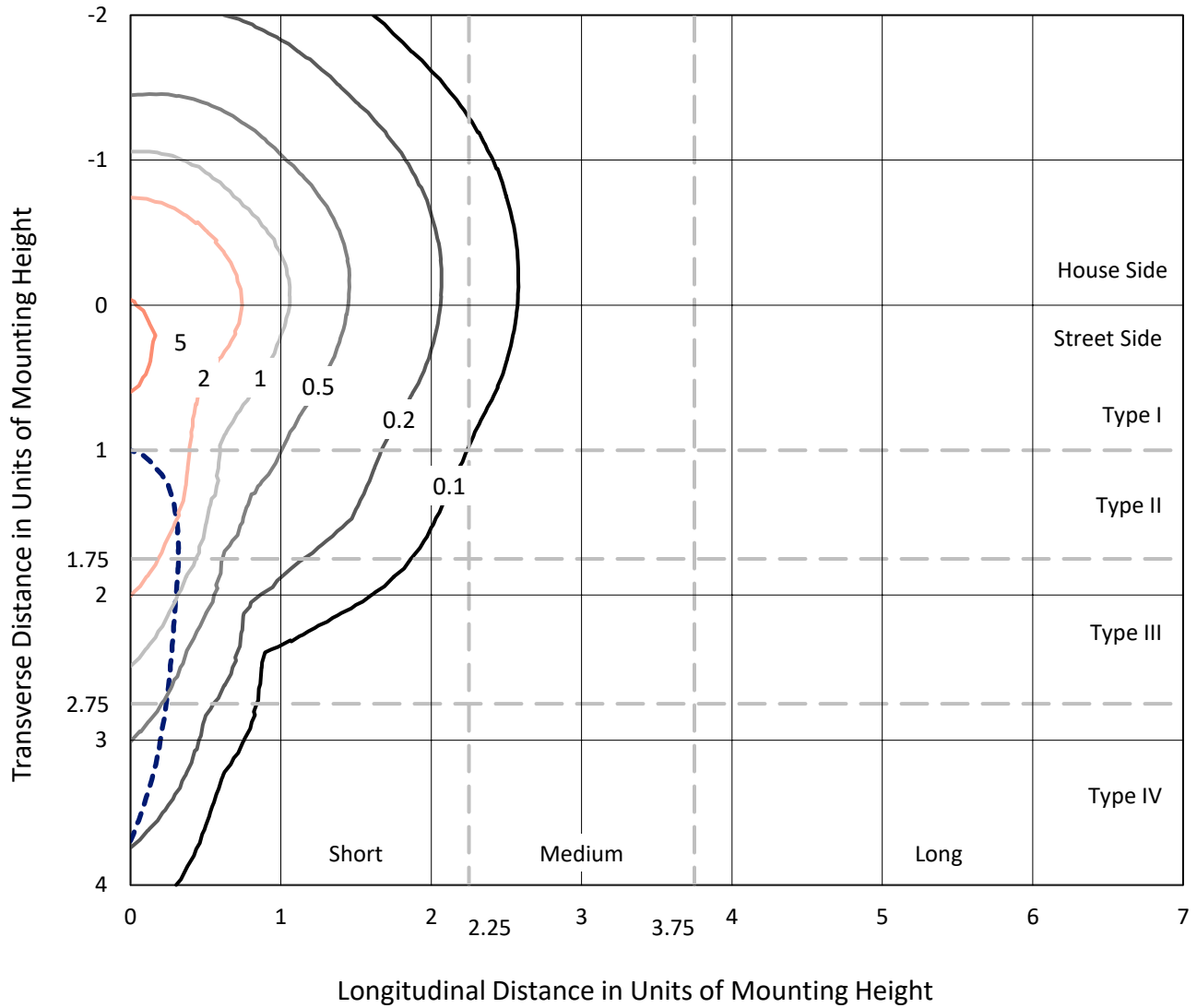
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

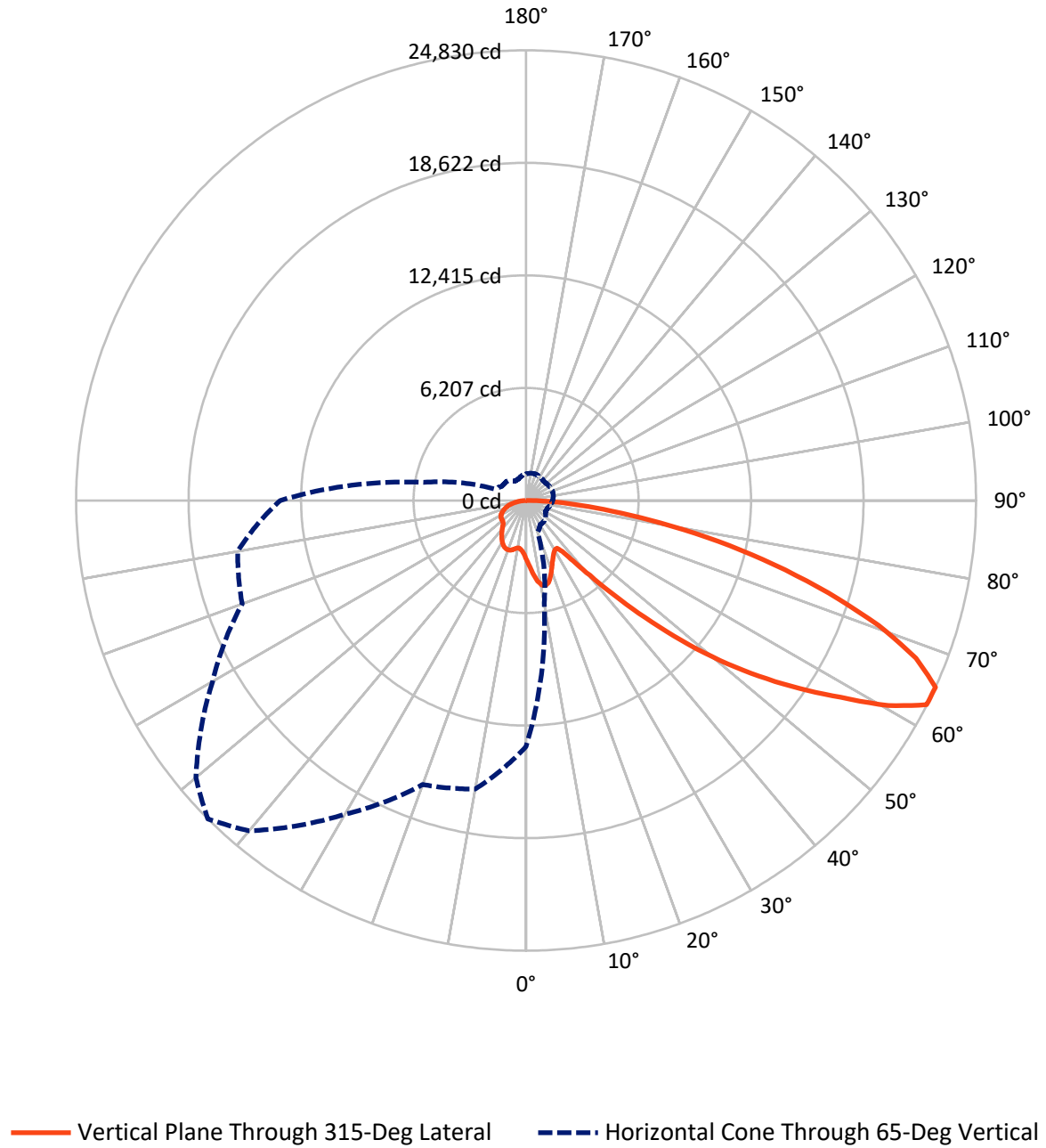
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6046.5	0.0	6046.5
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	17744.5	0.0	17744.5
	% Fixture	74.6	0.0	74.6
Total	Lumens	23791.0	0.0	23791.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.5	1.4
10°-20°	1018.8	4.3
20°-30°	1573.6	6.6
30°-40°	1994.2	8.4
40°-50°	3007.7	12.6
50°-60°	4859.4	20.4
60°-70°	6058.1	25.5
70°-80°	3972.6	16.7
80°-90°	982.1	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°	23791.0	100.0
0°-180°	23791.0	100.0

Coefficient of Utilization



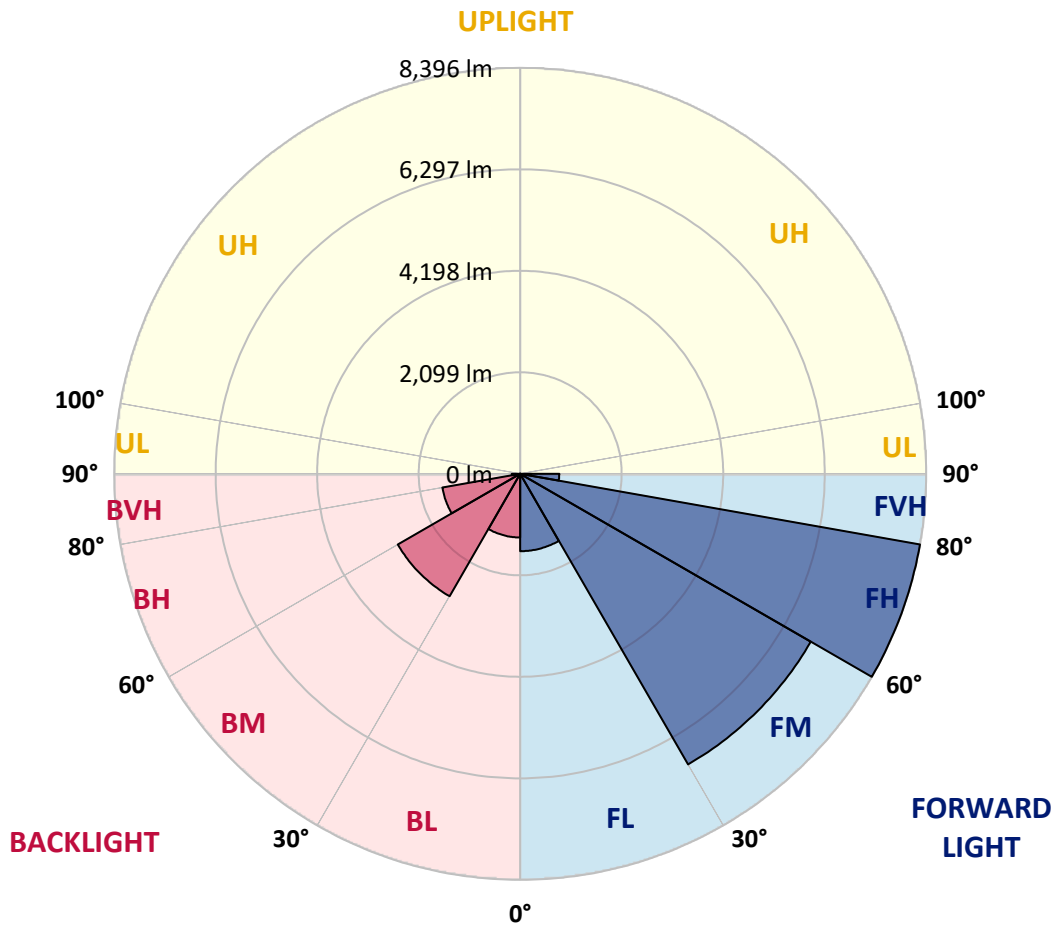
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1600.2	6.7			
FM (30°-60°)	6939.3	29.2			
FH (60°-80°)	8395.9	35.3			G4/12000
FVH (80°-90°)	809.1	3.4			G5
BL (0°-30°)	1316.7	5.5	B3/2500		
BM (30°-60°)	2922.0	12.3	B3/5000		
BH (60°-80°)	1634.7	6.9	B3/2500		G3/2500
BVH (80°-90°)	173.1	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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 CATALOG NUMBER: GALN-SB4B-760-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5
2.5°	3518.1	3491.2	3464.2	3435.4	3406.8	3377.9	3349.0	3321.4	3293.8	3267.1
5°	3783.0	3723.4	3663.8	3604.3	3544.9	3485.0	3425.2	3369.4	3313.5	3260.8
7.5°	4049.2	3950.7	3852.4	3761.6	3670.7	3582.2	3493.7	3415.7	3337.8	3265.8
10°	4253.2	4128.8	4004.3	3884.2	3764.2	3656.7	3549.2	3457.0	3364.6	3275.9
12.5°	4378.1	4241.4	4104.8	3968.7	3832.6	3705.8	3579.0	3474.7	3370.4	3277.1
15°	4454.0	4311.5	4169.0	4021.4	3873.8	3727.8	3581.8	3461.0	3340.3	3236.9
17.5°	4496.7	4352.2	4207.7	4046.7	3885.6	3716.1	3546.6	3401.4	3256.2	3134.6
20°	4543.8	4393.6	4243.4	4066.4	3889.4	3684.0	3478.6	3298.6	3118.6	2977.1
22.5°	4598.4	4445.0	4291.4	4093.0	3894.4	3644.6	3394.7	3177.9	2961.1	2800.1
25°	4668.7	4518.3	4368.0	4141.2	3914.2	3605.6	3297.2	3043.2	2789.4	2624.3
27.5°	4764.1	4620.7	4477.2	4216.5	3955.6	3579.7	3203.7	2920.1	2636.5	2486.2
30°	4892.8	4754.2	4615.7	4314.0	4012.4	3567.5	3122.3	2817.2	2512.0	2385.8
32.5°	5044.7	4907.5	4770.4	4415.9	4061.3	3552.4	3043.2	2728.4	2413.4	2311.7
35°	5229.2	5097.9	4966.5	4531.8	4097.2	3524.0	2951.1	2641.2	2331.2	2246.5
37.5°	5539.9	5372.4	5205.0	4661.8	4118.6	3475.5	2832.3	2538.5	2244.6	2170.5
40°	6009.4	5765.4	5521.3	4826.7	4132.0	3408.6	2685.2	2415.9	2146.7	2079.5
42.5°	6632.1	6279.8	5927.6	5042.5	4157.5	3339.5	2521.8	2280.7	2039.7	1977.8
45°	7401.0	6925.8	6450.7	5326.5	4202.3	3275.4	2348.5	2137.1	1925.7	1863.0
47.5°	8362.6	7693.8	7025.0	5629.0	4233.1	3222.4	2211.7	2023.5	1835.3	1754.4
50°	9623.0	8614.8	7606.5	5909.7	4213.0	3164.6	2116.3	1948.1	1779.8	1673.4
52.5°	11069.8	9582.2	8094.6	6092.0	4089.3	3067.1	2045.0	1898.4	1751.9	1629.5
55°	12610.1	10439.8	8269.7	6051.8	3833.9	2905.4	1976.9	1862.3	1747.7	1633.9
57.5°	14011.1	11047.7	8084.3	5769.1	3454.1	2677.4	1900.6	1819.6	1738.7	1638.2
60°	14857.8	11199.6	7541.2	5243.0	2944.8	2381.4	1818.0	1754.4	1690.7	1624.4
62.5°	14427.8	10560.0	6692.1	4531.6	2371.1	2027.2	1683.2	1640.9	1598.7	1590.5
65°	13567.3	9655.0	5742.6	3805.7	1869.0	1708.4	1547.9	1527.9	1507.9	1508.9
67.5°	12414.3	8578.0	4741.7	3094.7	1447.7	1402.1	1356.4	1367.6	1378.6	1375.9
70°	11029.0	7402.9	3776.7	2436.7	1096.6	1109.6	1122.5	1174.3	1225.9	1225.9
72.5°	9378.2	6128.9	2879.8	1862.8	845.9	885.2	924.6	997.9	1071.1	1083.4
75°	7289.9	4668.6	2047.2	1352.0	656.8	692.5	728.1	810.2	892.3	949.1
77.5°	5208.5	3267.6	1326.7	916.2	505.7	529.9	554.2	634.0	713.7	807.2
80°	3408.9	2105.2	801.5	590.3	379.1	389.2	399.2	466.7	534.2	645.9
82.5°	1981.6	1218.5	455.4	363.1	270.9	272.7	274.7	324.4	374.1	469.5
85°	871.8	548.1	224.5	194.1	163.8	162.9	161.9	198.3	234.8	305.7
87.5°	269.9	179.5	89.1	80.5	71.8	70.9	70.0	84.9	99.8	129.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949609
 CATALOG NUMBER: GALN-SB4B-760-U-SLR

CANDELA DISTRIBUTION (continued):

50°		55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
3271.5	0°	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5
3237.3	2.5°	3213.2	3189.2	3167.5	3145.9	3127.0	3108.0	3088.9	3070.0	3055.3	3040.5
3208.7	5°	3163.3	3117.7	3079.5	3041.5	3007.8	2974.2	2943.7	2913.1	2889.6	2866.0
3198.4	7.5°	3137.9	3077.5	3027.3	2977.1	2934.8	2892.3	2854.9	2817.7	2789.7	2761.8
3203.4	10°	3139.7	3075.9	3025.7	2975.5	2929.9	2884.2	2842.1	2800.1	2766.7	2733.2
3209.7	12.5°	3157.5	3105.5	3072.1	3039.0	3003.1	2967.4	2923.9	2880.4	2837.7	2795.1
3183.0	15°	3158.0	3133.1	3137.6	3142.2	3132.9	3123.6	3085.8	3048.0	2987.3	2926.5
3101.4	17.5°	3110.5	3119.6	3174.3	3229.0	3258.2	3287.2	3256.7	3226.3	3145.8	3065.3
2968.3	20°	3011.0	3053.7	3148.7	3243.8	3304.7	3365.6	3351.6	3337.4	3245.4	3153.5
2817.3	22.5°	2880.4	2943.6	3052.0	3160.7	3240.0	3319.2	3327.7	3336.1	3248.2	3160.4
2670.8	25°	2743.6	2816.4	2913.9	3011.6	3089.6	3167.5	3196.6	3225.6	3153.6	3081.7
2542.7	27.5°	2613.0	2683.3	2763.5	2843.6	2906.2	2968.7	3001.1	3033.6	2982.2	2931.0
2430.1	30°	2485.9	2541.9	2608.4	2674.9	2726.8	2778.7	2805.1	2831.5	2792.4	2753.3
2331.5	32.5°	2364.5	2397.5	2450.6	2503.8	2553.5	2603.4	2632.6	2662.0	2626.1	2590.1
2238.3	35°	2247.3	2256.5	2297.1	2337.5	2386.7	2436.0	2471.2	2506.3	2480.7	2455.2
2140.6	37.5°	2130.6	2120.6	2149.7	2178.7	2227.8	2277.0	2320.4	2363.8	2352.0	2340.2
2033.7	40°	2011.0	1988.2	2009.2	2030.2	2077.6	2125.1	2175.0	2225.1	2228.0	2230.8
1920.1	42.5°	1889.9	1859.8	1876.9	1894.1	1939.0	1984.1	2038.1	2092.1	2106.5	2120.9
1807.1	45°	1777.7	1748.5	1762.8	1777.3	1820.0	1862.7	1918.7	1974.7	1995.4	2016.1
1706.3	47.5°	1681.7	1657.1	1670.6	1684.1	1725.9	1767.5	1822.8	1878.0	1901.9	1925.7
1617.5	50°	1595.7	1574.0	1595.1	1616.3	1655.7	1695.0	1744.4	1793.9	1824.5	1855.2
1551.4	52.5°	1529.8	1508.3	1540.1	1571.7	1607.9	1643.9	1690.0	1736.2	1772.4	1808.7
1516.2	55°	1482.1	1448.1	1493.1	1538.1	1577.0	1615.9	1656.3	1696.6	1735.0	1773.6
1495.1	57.5°	1445.4	1395.7	1444.2	1492.6	1538.3	1584.0	1623.9	1664.0	1702.8	1741.4
1475.3	60°	1410.9	1346.4	1388.9	1431.4	1483.8	1536.3	1576.9	1617.5	1656.4	1695.4
1452.2	62.5°	1371.6	1291.1	1318.1	1345.1	1406.3	1467.5	1510.8	1554.1	1589.8	1625.4
1403.5	65°	1317.9	1232.1	1242.6	1252.8	1318.4	1384.0	1425.5	1466.9	1498.3	1529.7
1316.6	67.5°	1245.3	1174.0	1170.7	1167.5	1228.0	1288.6	1327.9	1367.1	1394.2	1421.3
1206.4	70°	1155.7	1105.0	1093.7	1082.4	1135.6	1188.8	1222.7	1256.6	1281.1	1305.6
1083.6	72.5°	1048.9	1014.1	997.5	981.1	1023.0	1064.8	1095.4	1126.1	1150.0	1174.0
944.3	75°	917.5	890.7	874.9	858.9	890.1	921.2	948.9	976.7	998.5	1020.4
804.7	77.5°	783.2	761.8	745.7	729.6	755.0	780.2	804.1	827.9	850.9	873.7
645.5	80°	627.6	609.5	596.0	582.5	603.6	624.5	644.6	664.7	682.2	699.5
474.8	82.5°	466.0	457.2	447.7	438.1	436.4	434.6	427.6	420.5	457.7	494.9
312.6	85°	303.2	293.8	283.1	272.4	263.4	254.2	234.8	215.3	250.1	285.0
138.1	87.5°	134.3	130.6	128.5	126.5	126.2	125.8	111.0	96.0	110.6	125.3
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: P949609
 CATALOG NUMBER: GALN-SB4B-760-U-SLR

CANDELA DISTRIBUTION (continued):

105°		110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
3271.5	0°	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5
3028.6	2.5°	3016.6	3007.3	2998.1	2989.5	2980.9	2970.2	2980.9	2989.5	2998.1	3007.3
2849.5	5°	2833.1	2821.4	2809.7	2800.8	2791.9	2783.1	2791.9	2800.8	2809.7	2821.4
2742.2	7.5°	2722.6	2709.2	2695.9	2687.9	2679.9	2673.9	2679.9	2687.9	2695.9	2709.2
2711.3	10°	2689.2	2676.6	2663.9	2657.1	2650.3	2647.6	2650.3	2657.1	2663.9	2676.6
2766.8	12.5°	2738.6	2724.4	2710.3	2704.5	2698.8	2697.8	2698.8	2704.5	2710.3	2724.4
2883.6	15°	2840.6	2820.9	2801.3	2793.8	2786.3	2785.6	2786.3	2793.8	2801.3	2820.9
3002.1	17.5°	2938.8	2909.7	2880.4	2870.9	2861.2	2859.7	2861.2	2870.9	2880.4	2909.7
3075.9	20°	2998.4	2961.1	2923.7	2911.8	2899.9	2896.1	2899.9	2911.8	2923.7	2961.1
3080.5	22.5°	3000.6	2961.3	2921.8	2908.7	2895.5	2889.8	2895.5	2908.7	2921.8	2961.3
3010.6	25°	2939.8	2905.7	2871.6	2859.2	2846.9	2839.6	2846.9	2859.2	2871.6	2905.7
2875.9	27.5°	2820.8	2797.9	2775.0	2769.3	2763.7	2761.8	2763.7	2769.3	2775.0	2797.9
2713.8	30°	2674.2	2662.5	2650.7	2650.7	2650.7	2652.6	2650.7	2650.7	2650.7	2662.5
2558.5	32.5°	2527.0	2519.4	2511.7	2512.7	2513.9	2515.7	2513.9	2512.7	2511.7	2519.4
2426.1	35°	2397.1	2385.4	2373.9	2371.4	2368.9	2367.6	2368.9	2371.4	2373.9	2385.4
2313.5	37.5°	2286.6	2265.4	2244.3	2233.2	2222.0	2215.7	2222.0	2233.2	2244.3	2265.4
2208.1	40°	2185.3	2154.4	2123.8	2103.0	2082.4	2070.1	2082.4	2103.0	2123.8	2154.4
2101.7	42.5°	2082.6	2044.4	2006.1	1975.8	1945.6	1925.7	1945.6	1975.8	2006.1	2044.4
1998.8	45°	1981.6	1937.8	1894.1	1858.6	1823.0	1800.2	1823.0	1858.6	1894.1	1937.8
1913.7	47.5°	1901.6	1862.7	1823.8	1790.9	1758.1	1736.2	1758.1	1790.9	1823.8	1862.7
1854.4	50°	1853.9	1822.8	1791.6	1761.3	1730.9	1709.8	1730.9	1761.3	1791.6	1822.8
1815.3	52.5°	1821.8	1796.4	1771.1	1743.8	1716.7	1697.2	1716.7	1743.8	1771.1	1796.4
1782.6	55°	1791.6	1769.6	1747.5	1723.6	1699.8	1682.2	1699.8	1723.6	1747.5	1769.6
1750.6	57.5°	1759.8	1737.4	1715.1	1691.5	1667.7	1649.5	1667.7	1691.5	1715.1	1737.4
1705.4	60°	1715.4	1693.6	1671.9	1647.5	1623.2	1604.3	1623.2	1647.5	1671.9	1693.6
1635.1	62.5°	1644.8	1625.1	1605.4	1579.7	1554.1	1531.5	1554.1	1579.7	1605.4	1625.1
1539.6	65°	1549.4	1530.4	1511.5	1486.6	1461.9	1442.4	1461.9	1486.6	1511.5	1530.4
1431.0	67.5°	1440.5	1423.1	1405.8	1382.7	1359.6	1342.0	1359.6	1382.7	1405.8	1423.1
1314.9	70°	1324.2	1310.0	1295.8	1273.7	1251.6	1231.5	1251.6	1273.7	1295.8	1310.0
1185.1	72.5°	1196.1	1184.3	1172.5	1151.4	1130.5	1111.0	1130.5	1151.4	1172.5	1184.3
1031.9	75°	1043.5	1037.7	1031.9	1014.2	996.5	977.9	996.5	1014.2	1031.9	1037.7
884.5	77.5°	895.3	887.3	879.0	861.2	843.4	828.5	843.4	861.2	879.0	887.3
713.8	80°	728.1	724.6	721.2	697.2	673.1	645.3	673.1	697.2	721.2	724.6
519.2	82.5°	543.6	542.1	540.4	520.2	499.9	482.1	499.9	520.2	540.4	542.1
315.1	85°	345.2	342.7	340.2	324.4	308.6	292.5	308.6	324.4	340.2	342.7
137.5	87.5°	149.6	146.6	143.4	135.3	127.0	119.3	127.0	135.3	143.4	146.6
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: P949609
 CATALOG NUMBER: GALN-SB4B-760-U-SLR

CANDELA DISTRIBUTION (continued):

160°		165°	170°	175°	180°	185°	190°	195°	200°	205°	210°
3271.5	0°	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5
3016.6	2.5°	3028.6	3040.5	3055.3	3070.0	3088.9	3108.0	3127.0	3145.9	3167.5	3189.2
2833.1	5°	2849.5	2866.0	2889.6	2913.1	2943.7	2974.2	3007.8	3041.5	3079.5	3117.7
2722.6	7.5°	2742.2	2761.8	2789.7	2817.7	2854.9	2892.3	2934.8	2977.1	3027.3	3077.5
2689.2	10°	2711.3	2733.2	2766.7	2800.1	2842.1	2884.2	2929.9	2975.5	3025.7	3075.9
2738.6	12.5°	2766.8	2795.1	2837.7	2880.4	2923.9	2967.4	3003.1	3039.0	3072.1	3105.5
2840.6	15°	2883.6	2926.5	2987.3	3048.0	3085.8	3123.6	3132.9	3142.2	3137.6	3133.1
2938.8	17.5°	3002.1	3065.3	3145.8	3226.3	3256.7	3287.2	3258.2	3229.0	3174.3	3119.6
2998.4	20°	3075.9	3153.5	3245.4	3337.4	3351.6	3365.6	3304.7	3243.8	3148.7	3053.7
3000.6	22.5°	3080.5	3160.4	3248.2	3336.1	3327.7	3319.2	3240.0	3160.7	3052.0	2943.6
2939.8	25°	3010.6	3081.7	3153.6	3225.6	3196.6	3167.5	3089.6	3011.6	2913.9	2816.4
2820.8	27.5°	2875.9	2931.0	2982.2	3033.6	3001.1	2968.7	2906.2	2843.6	2763.5	2683.3
2674.2	30°	2713.8	2753.3	2792.4	2831.5	2805.1	2778.7	2726.8	2674.9	2608.4	2541.9
2527.0	32.5°	2558.5	2590.1	2626.1	2662.0	2632.6	2603.4	2553.5	2503.8	2450.6	2397.5
2397.1	35°	2426.1	2455.2	2480.7	2506.3	2471.2	2436.0	2386.7	2337.5	2297.1	2256.5
2286.6	37.5°	2313.5	2340.2	2352.0	2363.8	2320.4	2277.0	2227.8	2178.7	2149.7	2120.6
2185.3	40°	2208.1	2230.8	2228.0	2225.1	2175.0	2125.1	2077.6	2030.2	2009.2	1988.2
2082.6	42.5°	2101.7	2120.9	2106.5	2092.1	2038.1	1984.1	1939.0	1894.1	1876.9	1859.8
1981.6	45°	1998.8	2016.1	1995.4	1974.7	1918.7	1862.7	1820.0	1777.3	1762.8	1748.5
1901.6	47.5°	1913.7	1925.7	1901.9	1878.0	1822.8	1767.5	1725.9	1684.1	1670.6	1657.1
1853.9	50°	1854.4	1855.2	1824.5	1793.9	1744.4	1695.0	1655.7	1616.3	1595.1	1574.0
1821.8	52.5°	1815.3	1808.7	1772.4	1736.2	1690.0	1643.9	1607.9	1571.7	1540.1	1508.3
1791.6	55°	1782.6	1773.6	1735.0	1696.6	1656.3	1615.9	1577.0	1538.1	1493.1	1448.1
1759.8	57.5°	1750.6	1741.4	1702.8	1664.0	1623.9	1584.0	1538.3	1492.6	1444.2	1395.7
1715.4	60°	1705.4	1695.4	1656.4	1617.5	1576.9	1536.3	1483.8	1431.4	1388.9	1346.4
1644.8	62.5°	1635.1	1625.4	1589.8	1554.1	1510.8	1467.5	1406.3	1345.1	1318.1	1291.1
1549.4	65°	1539.6	1529.7	1498.3	1466.9	1425.5	1384.0	1318.4	1252.8	1242.6	1232.1
1440.5	67.5°	1431.0	1421.3	1394.2	1367.1	1327.9	1288.6	1228.0	1167.5	1170.7	1174.0
1324.2	70°	1314.9	1305.6	1281.1	1256.6	1222.7	1188.8	1135.6	1082.4	1093.7	1105.0
1196.1	72.5°	1185.1	1174.0	1150.0	1126.1	1095.4	1064.8	1023.0	981.1	997.5	1014.1
1043.5	75°	1031.9	1020.4	998.5	976.7	948.9	921.2	890.1	858.9	874.9	890.7
895.3	77.5°	884.5	873.7	850.9	827.9	804.1	780.2	755.0	729.6	745.7	761.8
728.1	80°	713.8	699.5	682.2	664.7	644.6	624.5	603.6	582.5	596.0	609.5
543.6	82.5°	519.2	494.9	457.7	420.5	427.6	434.6	436.4	438.1	447.7	457.2
345.2	85°	315.1	285.0	250.1	215.3	234.8	254.2	263.4	272.4	283.1	293.8
149.6	87.5°	137.5	125.3	110.6	96.0	111.0	125.8	126.2	126.5	128.5	130.6
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: P949609
 CATALOG NUMBER: GALN-SB4B-760-U-SLR

CANDELA DISTRIBUTION (continued):

215°		220°	225°	230°	235°	240°	245°	250°	255°	260°	265°
3271.5	0°	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5
3213.2	2.5°	3237.3	3267.1	3293.8	3321.4	3349.0	3377.9	3406.8	3435.4	3464.2	3491.2
3163.3	5°	3208.7	3260.8	3313.5	3369.4	3425.2	3485.0	3544.9	3604.3	3663.8	3723.4
3137.9	7.5°	3198.4	3265.8	3337.8	3415.7	3493.7	3582.2	3670.7	3761.6	3852.4	3950.7
3139.7	10°	3203.4	3275.9	3364.6	3457.0	3549.2	3656.7	3764.2	3884.2	4004.3	4128.8
3157.5	12.5°	3209.7	3277.1	3370.4	3474.7	3579.0	3705.8	3832.6	3968.7	4104.8	4241.4
3158.0	15°	3183.0	3236.9	3340.3	3461.0	3581.8	3727.8	3873.8	4021.4	4169.0	4311.5
3110.5	17.5°	3101.4	3134.6	3256.2	3401.4	3546.6	3716.1	3885.6	4046.7	4207.7	4352.2
3011.0	20°	2968.3	2977.1	3118.6	3298.6	3478.6	3684.0	3889.4	4066.4	4243.4	4393.6
2880.4	22.5°	2817.3	2800.1	2961.1	3177.9	3394.7	3644.6	3894.4	4093.0	4291.4	4445.0
2743.6	25°	2670.8	2624.3	2789.4	3043.2	3297.2	3605.6	3914.2	4141.2	4368.0	4518.3
2613.0	27.5°	2542.7	2486.2	2636.5	2920.1	3203.7	3579.7	3955.6	4216.5	4477.2	4620.7
2485.9	30°	2430.1	2385.8	2512.0	2817.2	3122.3	3567.5	4012.4	4314.0	4615.7	4754.2
2364.5	32.5°	2331.5	2311.7	2413.4	2728.4	3043.2	3552.4	4061.3	4415.9	4770.4	4907.5
2247.3	35°	2238.3	2246.5	2331.2	2641.2	2951.1	3524.0	4097.2	4531.8	4966.5	5097.9
2130.6	37.5°	2140.6	2170.5	2244.6	2538.5	2832.3	3475.5	4118.6	4661.8	5205.0	5372.4
2011.0	40°	2033.7	2079.5	2146.7	2415.9	2685.2	3408.6	4132.0	4826.7	5521.3	5765.4
1889.9	42.5°	1920.1	1977.8	2039.7	2280.7	2521.8	3339.5	4157.5	5042.5	5927.6	6279.8
1777.7	45°	1807.1	1863.0	1925.7	2137.1	2348.5	3275.4	4202.3	5326.5	6450.7	6925.8
1681.7	47.5°	1706.3	1754.4	1835.3	2023.5	2211.7	3222.4	4233.1	5629.0	7025.0	7693.8
1595.7	50°	1617.5	1673.4	1779.8	1948.1	2116.3	3164.6	4213.0	5909.7	7606.5	8614.8
1529.8	52.5°	1551.4	1629.5	1751.9	1898.4	2045.0	3067.1	4089.3	6092.0	8094.6	9582.2
1482.1	55°	1516.2	1633.9	1747.7	1862.3	1976.9	2905.4	3833.9	6051.8	8269.7	10439.8
1445.4	57.5°	1495.1	1638.2	1738.7	1819.6	1900.6	2677.4	3454.1	5769.1	8084.3	11047.7
1410.9	60°	1475.3	1624.4	1690.7	1754.4	1818.0	2381.4	2944.8	5243.0	7541.2	11199.6
1371.6	62.5°	1452.2	1590.5	1598.7	1640.9	1683.2	2027.2	2371.1	4531.6	6692.1	10560.0
1317.9	65°	1403.5	1508.9	1507.9	1527.9	1547.9	1708.4	1869.0	3805.7	5742.6	9655.0
1245.3	67.5°	1316.6	1375.9	1378.6	1367.6	1356.4	1402.1	1447.7	3094.7	4741.7	8578.0
1155.7	70°	1206.4	1225.9	1225.9	1174.3	1122.5	1109.6	1096.6	2436.7	3776.7	7402.9
1048.9	72.5°	1083.6	1083.4	1071.1	997.9	924.6	885.2	845.9	1862.8	2879.8	6128.9
917.5	75°	944.3	949.1	892.3	810.2	728.1	692.5	656.8	1352.0	2047.2	4668.6
783.2	77.5°	804.7	807.2	713.7	634.0	554.2	529.9	505.7	916.2	1326.7	3267.6
627.6	80°	645.5	645.9	534.2	466.7	399.2	389.2	379.1	590.3	801.5	2105.2
466.0	82.5°	474.8	469.5	374.1	324.4	274.7	272.7	270.9	363.1	455.4	1218.5
303.2	85°	312.6	305.7	234.8	198.3	161.9	162.9	163.8	194.1	224.5	548.1
134.3	87.5°	138.1	129.3	99.8	84.9	70.0	70.9	71.8	80.5	89.1	179.5
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: P949609
 CATALOG NUMBER: GALN-SB4B-760-U-SLR

CANDELA DISTRIBUTION (continued):

270°		275°	280°	285°	290°	295°	300°	305°	310°	315°	320°
3271.5	0°	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5
3518.1	2.5°	3531.5	3544.9	3563.8	3582.8	3594.1	3605.4	3611.0	3616.7	3614.2	3616.7
3783.0	5°	3829.6	3876.3	3922.5	3968.8	3993.9	4019.0	4034.2	4049.5	4061.1	4049.5
4049.2	7.5°	4125.0	4200.7	4268.9	4337.0	4378.1	4419.1	4441.3	4463.4	4474.1	4463.4
4253.2	10°	4342.8	4432.4	4512.4	4592.4	4640.8	4689.0	4710.6	4732.1	4740.2	4732.1
4378.1	12.5°	4475.2	4572.3	4644.6	4716.6	4751.8	4786.9	4798.7	4810.5	4811.8	4810.5
4454.0	15°	4537.9	4621.6	4666.9	4712.4	4713.6	4714.9	4702.3	4689.8	4675.0	4689.8
4496.7	17.5°	4553.3	4609.9	4610.8	4611.6	4560.7	4509.9	4463.3	4416.6	4383.7	4416.6
4543.8	20°	4563.5	4583.3	4523.7	4464.1	4351.8	4239.6	4157.9	4076.2	4025.9	4076.2
4598.4	22.5°	4572.5	4546.7	4423.1	4299.6	4134.5	3969.4	3867.3	3765.1	3709.6	3765.1
4668.7	25°	4587.1	4505.5	4317.9	4130.4	3929.9	3729.4	3622.0	3514.8	3462.3	3514.8
4764.1	27.5°	4618.2	4472.2	4223.8	3975.5	3753.3	3531.1	3425.4	3319.8	3270.2	3319.8
4892.8	30°	4675.2	4457.8	4152.0	3846.2	3614.7	3383.2	3285.2	3187.1	3140.9	3187.1
5044.7	32.5°	4746.8	4449.0	4103.0	3757.0	3539.5	3321.9	3245.0	3167.9	3134.6	3167.9
5229.2	35°	4864.6	4500.2	4139.7	3779.3	3628.1	3477.1	3459.1	3441.2	3438.4	3441.2
5539.9	37.5°	5111.1	4682.2	4354.6	4026.9	4017.2	4007.4	4089.5	4171.6	4214.2	4171.6
6009.4	40°	5543.0	5076.7	4833.0	4589.3	4761.3	4933.3	5132.9	5332.5	5431.9	5332.5
6632.1	42.5°	6169.3	5706.6	5566.3	5425.9	5801.0	6176.1	6539.2	6902.2	7115.4	6902.2
7401.0	45°	6985.3	6569.5	6507.7	6445.6	7046.6	7647.7	8244.2	8840.9	9203.0	8840.9
8362.6	47.5°	7958.2	7553.8	7541.2	7528.6	8395.6	9262.3	10135.6	11008.9	11521.7	11008.9
9623.0	50°	9123.5	8624.1	8626.2	8628.3	9745.6	10862.9	12015.7	13168.5	13865.4	13168.5
11069.8	52.5°	10464.9	9860.2	9799.1	9737.8	11072.4	12407.0	13833.3	15259.5	16095.0	15259.5
12610.1	55°	12012.5	11415.0	11176.6	10938.2	12423.5	13908.8	15609.1	17309.5	18303.1	17309.5
14011.1	57.5°	13685.7	13360.2	12882.0	12404.0	13903.7	15403.5	17329.5	19255.3	20487.5	19255.3
14857.8	60°	15363.2	15868.8	15275.0	14681.2	16100.5	17519.8	19581.9	21643.9	22975.6	21643.9
14427.8	62.5°	15808.9	17189.9	17123.0	17055.9	18356.1	19656.4	21618.3	23580.0	24810.9	23580.0
13567.3	65°	14863.5	16159.6	16416.1	16672.4	18324.7	19977.2	21879.5	23781.8	24829.8	23781.8
12414.3	67.5°	13647.0	14879.8	15000.0	15120.2	16841.8	18563.3	20473.8	22384.3	23205.3	22384.3
11029.0	70°	12369.8	13710.8	13764.5	13818.4	15357.9	16897.4	18541.5	20185.6	20641.9	20185.6
9378.2	72.5°	10916.9	12455.7	12494.3	12532.9	13737.4	14941.9	16173.3	17404.6	17450.8	17404.6
7289.9	75°	8882.4	10475.0	10618.0	10760.9	11698.1	12635.2	13502.0	14368.8	14136.6	14368.8
5208.5	77.5°	6695.1	8181.8	8386.4	8591.1	9303.5	10015.9	10630.6	11245.5	10846.3	11245.5
3408.9	80°	4659.6	5910.2	6164.6	6418.9	6957.0	7494.7	7817.6	8140.4	7498.3	8140.4
1981.6	82.5°	2836.6	3691.8	3975.8	4260.1	4630.4	5000.7	5135.4	5270.0	4765.3	5270.0
871.8	85°	1325.7	1779.5	2021.1	2262.8	2567.1	2871.3	2947.7	3024.2	2619.9	3024.2
269.9	87.5°	422.4	575.0	709.8	844.6	996.8	1148.9	1155.4	1161.8	975.4	1161.8
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: P949609
 CATALOG NUMBER: GALN-SB4B-760-U-SLR

CANDELA DISTRIBUTION (continued):

325°		330°	335°	340°	345°	350°	355°	360°
3271.5	0°	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5	3271.5
3611.0	2.5°	3605.4	3594.1	3582.8	3563.8	3544.9	3531.5	3518.1
4034.2	5°	4019.0	3993.9	3968.8	3922.5	3876.3	3829.6	3783.0
4441.3	7.5°	4419.1	4378.1	4337.0	4268.9	4200.7	4125.0	4049.2
4710.6	10°	4689.0	4640.8	4592.4	4512.4	4432.4	4342.8	4253.2
4798.7	12.5°	4786.9	4751.8	4716.6	4644.6	4572.3	4475.2	4378.1
4702.3	15°	4714.9	4713.6	4712.4	4666.9	4621.6	4537.9	4454.0
4463.3	17.5°	4509.9	4560.7	4611.6	4610.8	4609.9	4553.3	4496.7
4157.9	20°	4239.6	4351.8	4464.1	4523.7	4583.3	4563.5	4543.8
3867.3	22.5°	3969.4	4134.5	4299.6	4423.1	4546.7	4572.5	4598.4
3622.0	25°	3729.4	3929.9	4130.4	4317.9	4505.5	4587.1	4668.7
3425.4	27.5°	3531.1	3753.3	3975.5	4223.8	4472.2	4618.2	4764.1
3285.2	30°	3383.2	3614.7	3846.2	4152.0	4457.8	4675.2	4892.8
3245.0	32.5°	3321.9	3539.5	3757.0	4103.0	4449.0	4746.8	5044.7
3459.1	35°	3477.1	3628.1	3779.3	4139.7	4500.2	4864.6	5229.2
4089.5	37.5°	4007.4	4017.2	4026.9	4354.6	4682.2	5111.1	5539.9
5132.9	40°	4933.3	4761.3	4589.3	4833.0	5076.7	5543.0	6009.4
6539.2	42.5°	6176.1	5801.0	5425.9	5566.3	5706.6	6169.3	6632.1
8244.2	45°	7647.7	7046.6	6445.6	6507.7	6569.5	6985.3	7401.0
10135.6	47.5°	9262.3	8395.6	7528.6	7541.2	7553.8	7958.2	8362.6
12015.7	50°	10862.9	9745.6	8628.3	8626.2	8624.1	9123.5	9623.0
13833.3	52.5°	12407.0	11072.4	9737.8	9799.1	9860.2	10464.9	11069.8
15609.1	55°	13908.8	12423.5	10938.2	11176.6	11415.0	12012.5	12610.1
17329.5	57.5°	15403.5	13903.7	12404.0	12882.0	13360.2	13685.7	14011.1
19581.9	60°	17519.8	16100.5	14681.2	15275.0	15868.8	15363.2	14857.8
21618.3	62.5°	19656.4	18356.1	17055.9	17123.0	17189.9	15808.9	14427.8
21879.5	65°	19977.2	18324.7	16672.4	16416.1	16159.6	14863.5	13567.3
20473.8	67.5°	18563.3	16841.8	15120.2	15000.0	14879.8	13647.0	12414.3
18541.5	70°	16897.4	15357.9	13818.4	13764.5	13710.8	12369.8	11029.0
16173.3	72.5°	14941.9	13737.4	12532.9	12494.3	12455.7	10916.9	9378.2
13502.0	75°	12635.2	11698.1	10760.9	10618.0	10475.0	8882.4	7289.9
10630.6	77.5°	10015.9	9303.5	8591.1	8386.4	8181.8	6695.1	5208.5
7817.6	80°	7494.7	6957.0	6418.9	6164.6	5910.2	4659.6	3408.9
5135.4	82.5°	5000.7	4630.4	4260.1	3975.8	3691.8	2836.6	1981.6
2947.7	85°	2871.3	2567.1	2262.8	2021.1	1779.5	1325.7	871.8
1155.4	87.5°	1148.9	996.8	844.6	709.8	575.0	422.4	269.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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