

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: P954712

Luminaire Tested: **GALN-SB7D-850-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954712
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-SB7D-850-U-SLR
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68974 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

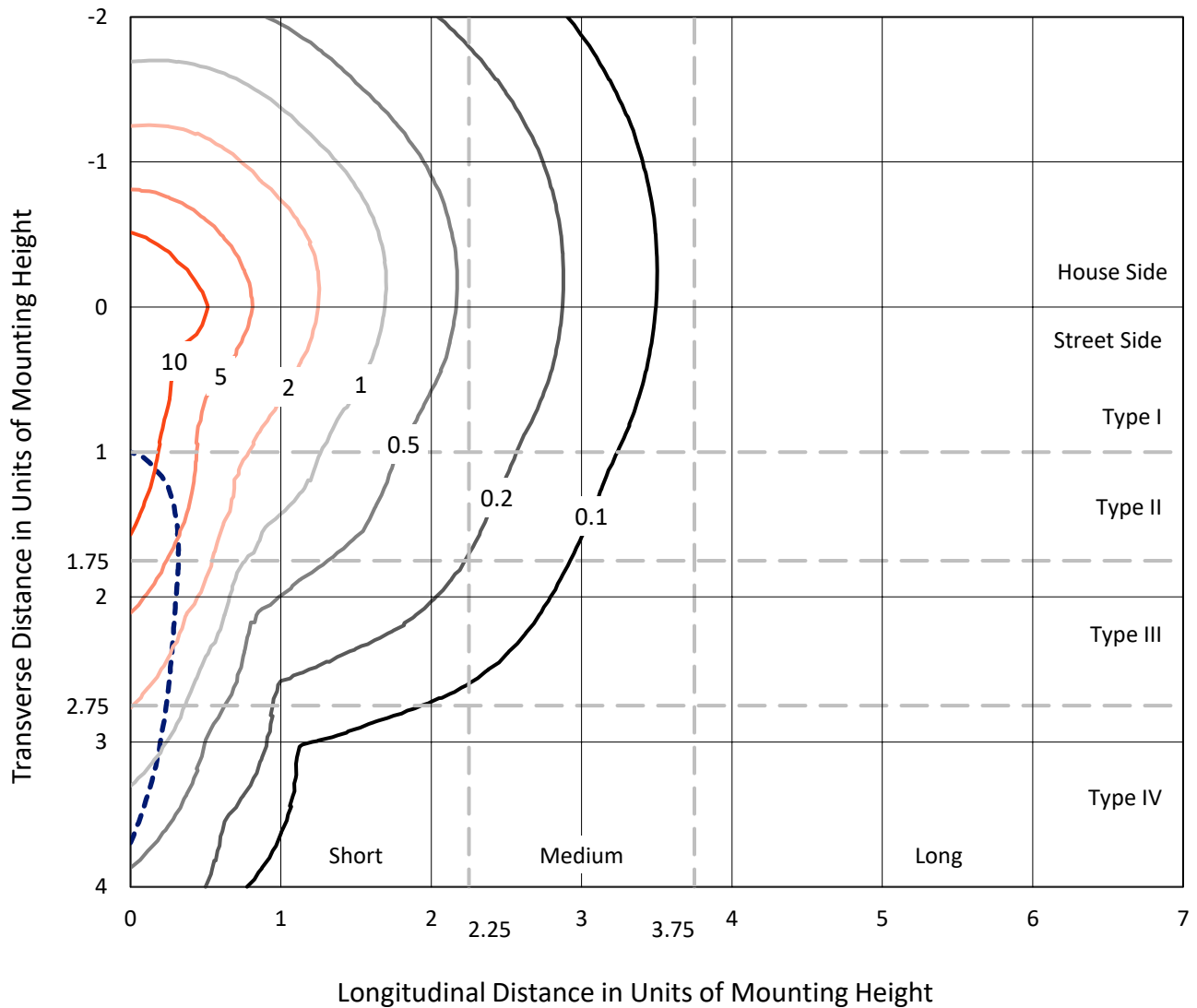
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954712
 CATALOG NUMBER: GALN-SB7D-850-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

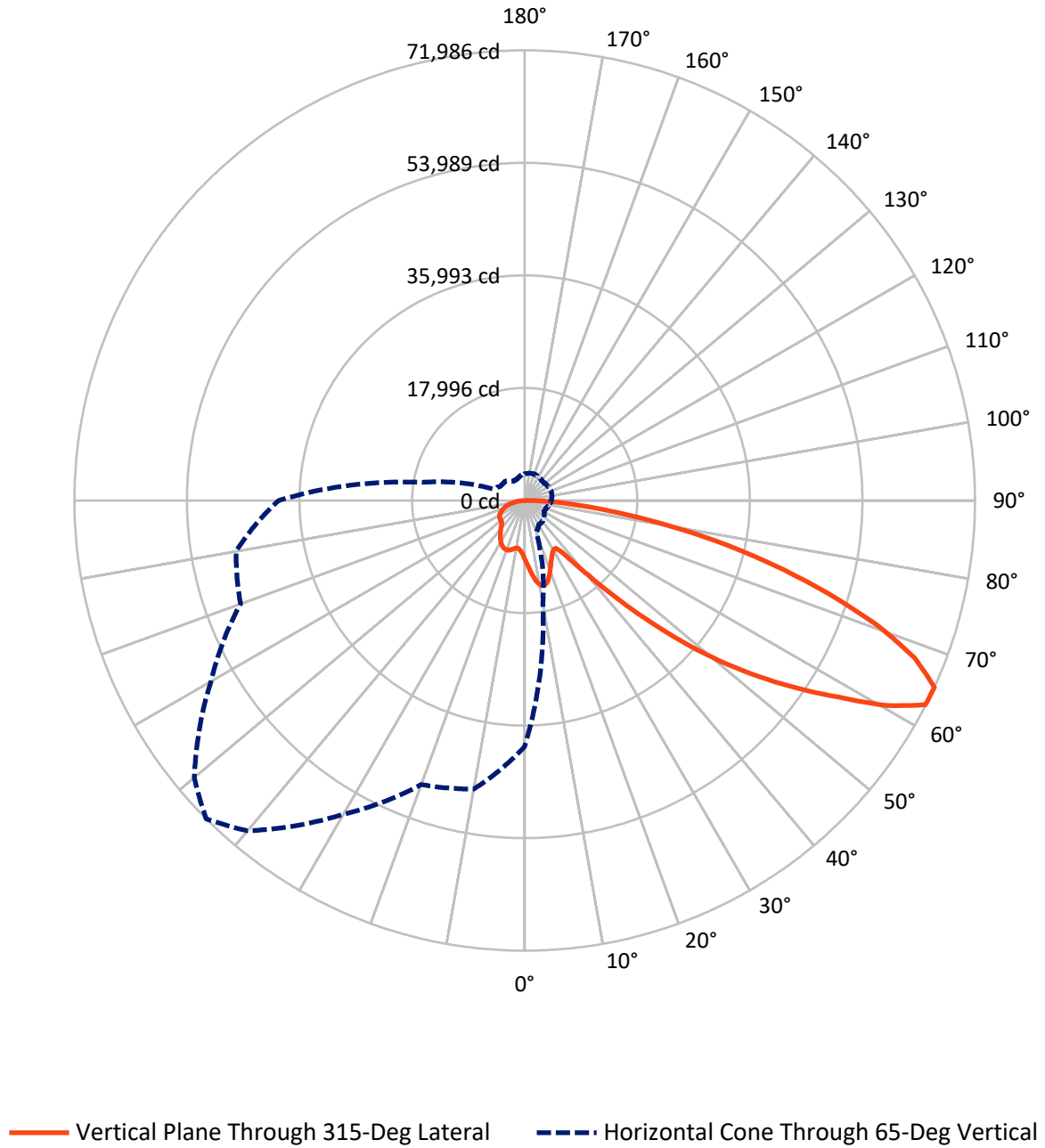
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P954712
CATALOG NUMBER: GALN-SB7D-850-U-SLR

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17529.7	0.0	17529.7
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	51444.3	0.0	51444.3
	% Fixture	74.6	0.0	74.6
Total	Lumens	68974.0	0.0	68974.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	940.8	1.4
10°-20°	2953.5	4.3
20°-30°	4562.2	6.6
30°-40°	5781.5	8.4
40°-50°	8719.9	12.6
50°-60°	14088.3	20.4
60°-70°	17563.3	25.5
70°-80°	11517.1	16.7
80°-90°	2847.3	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°	68974.0	100.0
0°-180°	68974.0	100.0



REPORT NUMBER: P954712

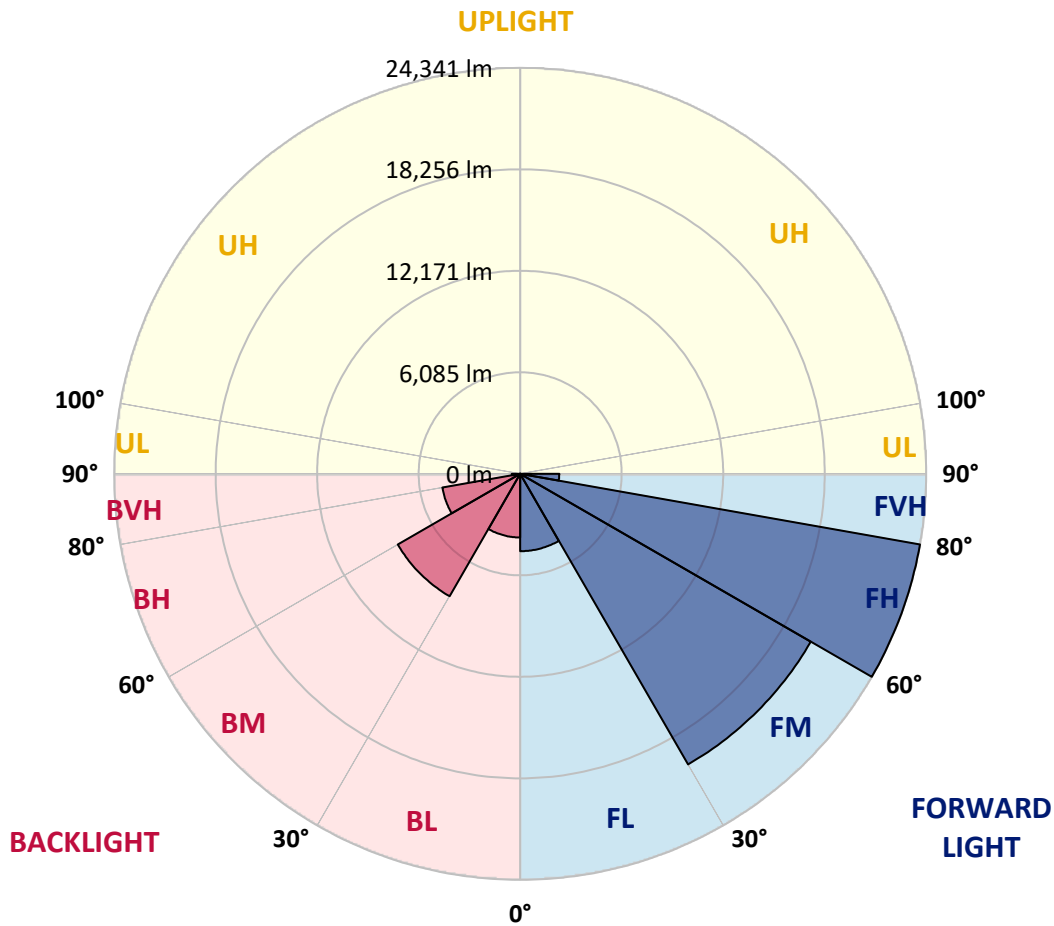
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4639.3	6.7			
FM (30°-60°)	20118.2	29.2			
FH (60°-80°)	24341.2	35.3			G5
FVH (80°-90°)	2345.6	3.4			G5
BL (0°-30°)	3817.3	5.5	B4/5000		
BM (30°-60°)	8471.4	12.3	B4/8500		
BH (60°-80°)	4739.2	6.9	B4/5000		G4/5000
BVH (80°-90°)	501.8	0.7			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



REPORT NUMBER: P954712

CATALOG NUMBER: GALN-SB7D-850-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5
2.5°	10199.7	10121.4	10043.2	9959.8	9876.9	9793.1	9709.4	9629.4	9549.3	9471.8
5°	10967.6	10794.7	10621.9	10449.3	10277.2	10103.6	9930.4	9768.4	9606.4	9453.6
7.5°	11739.2	11453.8	11168.9	10905.4	10641.9	10385.3	10128.7	9902.7	9676.7	9468.1
10°	12330.6	11969.9	11609.3	11261.0	10913.0	10601.5	10289.6	10022.4	9754.6	9497.3
12.5°	12692.7	12296.4	11900.4	11505.9	11111.4	10743.8	10376.2	10073.8	9771.3	9500.9
15°	12912.9	12499.8	12086.8	11658.8	11230.7	10807.5	10384.2	10034.1	9684.0	9384.4
17.5°	13036.7	12617.8	12198.9	11731.9	11265.0	10773.6	10282.3	9861.2	9440.1	9087.8
20°	13173.1	12737.9	12302.2	11789.0	11275.9	10680.5	10085.0	9563.1	9041.2	8631.1
22.5°	13331.5	12886.7	12441.6	11866.2	11290.4	10566.2	9841.9	9213.4	8584.8	8117.9
25°	13535.3	13099.3	12663.6	12006.0	11347.9	10453.4	9559.1	8822.9	8087.0	7608.4
27.5°	13811.9	13396.2	12980.3	12224.3	11468.0	10378.0	9288.0	8465.8	7643.7	7208.0
30°	14184.9	13783.1	13381.7	12507.1	11632.5	10342.7	9052.1	8167.4	7282.6	6916.9
32.5°	14625.3	14227.5	13830.1	12802.3	11774.5	10299.0	8822.9	7910.1	6996.9	6702.1
35°	15160.3	14779.6	14398.6	13138.6	11878.6	10216.8	8555.7	7657.1	6758.5	6512.9
37.5°	16061.1	15575.6	15090.1	13515.3	11940.4	10075.9	8211.4	7359.4	6507.4	6292.7
40°	17422.3	16714.7	16007.2	13993.5	11979.4	9882.0	7784.9	7004.2	6223.5	6028.8
42.5°	19227.4	18206.2	17185.0	14619.1	12053.3	9681.8	7311.0	6612.2	5913.4	5734.0
45°	21456.6	20079.1	18701.5	15442.4	12183.2	9495.8	6808.8	6195.9	5583.0	5401.0
47.5°	24244.5	22305.7	20366.6	16319.5	12272.4	9342.2	6412.1	5866.5	5320.9	5086.2
50°	27898.5	24975.7	22052.4	17133.3	12214.1	9174.8	6135.5	5647.8	5160.1	4851.4
52.5°	32093.1	27780.3	23467.5	17661.7	11855.6	8892.0	5928.7	5503.6	5078.9	4724.1
55°	36558.7	30266.8	23975.2	17545.3	11115.0	8423.2	5731.5	5399.2	5066.9	4736.8
57.5°	40620.4	32029.0	23437.6	16725.7	10014.1	7762.3	5510.2	5275.4	5040.7	4749.5
60°	43075.2	32469.4	21863.2	15200.3	8537.5	6904.1	5270.7	5086.2	4901.7	4709.5
62.5°	41828.7	30615.1	19401.4	13137.8	6874.3	5877.1	4879.8	4757.2	4634.9	4611.2
65°	39333.8	27991.3	16648.9	11033.5	5418.5	4953.0	4487.5	4429.6	4371.8	4374.7
67.5°	35990.9	24869.0	13747.1	8972.1	4197.1	4064.9	3932.5	3964.9	3996.9	3988.9
70°	31974.8	21462.1	10949.4	7064.3	3179.1	3216.9	3254.4	3404.4	3554.0	3554.0
72.5°	27188.8	17768.7	8349.0	5400.6	2452.3	2566.2	2680.5	2893.0	3105.2	3140.9
75°	21134.5	13534.9	5935.3	3919.7	1904.2	2007.5	2110.9	2348.9	2587.0	2751.5
77.5°	15100.3	9473.2	3846.2	2656.1	1466.0	1536.2	1606.8	1837.9	2069.1	2340.2
80°	9883.0	6103.4	2323.8	1711.3	1099.1	1128.2	1157.4	1353.2	1548.6	1872.5
82.5°	5744.9	3532.5	1320.4	1052.5	785.4	790.5	796.3	940.4	1084.6	1361.2
85°	2527.6	1589.0	650.7	562.7	475.0	472.4	469.5	575.0	680.6	886.2
87.5°	782.5	520.4	258.4	233.3	208.2	205.6	203.1	246.0	289.3	374.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954712
 CATALOG NUMBER: GALN-SB7D-850-U-SLR

CANDELA DISTRIBUTION (continued):

50°		55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
9484.5	0°	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5
9385.5	2.5°	9315.6	9246.1	9183.2	9120.6	9065.6	9010.7	8955.3	8900.4	8857.8	8814.9
9302.5	5°	9170.8	9038.7	8928.0	8817.8	8720.2	8622.7	8534.2	8445.4	8377.4	8309.0
9272.7	7.5°	9097.3	8922.2	8776.6	8631.1	8508.4	8385.4	8276.9	8168.8	8087.7	8006.9
9287.3	10°	9102.4	8917.5	8771.9	8626.3	8494.2	8361.7	8239.8	8117.9	8021.1	7923.9
9305.5	12.5°	9154.1	9003.4	8906.6	8810.5	8706.4	8603.0	8476.7	8350.8	8227.1	8103.3
9227.9	15°	9155.5	9083.4	9096.5	9109.7	9082.7	9055.8	8946.2	8836.7	8660.5	8484.4
8991.4	17.5°	9017.9	9044.1	9202.8	9361.5	9445.9	9530.0	9441.6	9353.5	9120.2	8886.9
8605.6	20°	8729.3	8853.1	9128.6	9404.5	9581.0	9757.5	9716.7	9675.6	9408.8	9142.4
8167.8	22.5°	8350.8	8533.9	8848.3	9163.5	9393.2	9622.8	9647.6	9672.0	9417.2	9162.4
7743.0	25°	7954.1	8165.2	8448.0	8731.1	8957.2	9183.2	9267.6	9351.7	9142.8	8934.2
7371.8	27.5°	7575.6	7779.4	8012.0	8244.2	8425.4	8606.7	8700.6	8794.8	8646.0	8497.5
7045.3	30°	7206.9	7369.2	7562.1	7755.0	7905.3	8056.0	8132.4	8208.9	8095.7	7982.1
6759.3	32.5°	6855.0	6950.7	7104.7	7259.0	7403.1	7547.6	7632.4	7717.5	7613.5	7509.0
6489.2	35°	6515.4	6542.0	6659.5	6776.7	6919.4	7062.4	7164.3	7266.2	7192.0	7118.1
6206.1	37.5°	6176.9	6147.8	6232.3	6316.3	6458.6	6601.3	6727.2	6853.2	6819.0	6784.7
5896.0	40°	5830.1	5764.2	5825.0	5885.8	6023.4	6160.9	6305.8	6451.0	6459.4	6467.4
5566.6	42.5°	5479.3	5391.9	5441.4	5491.3	5621.6	5752.2	5908.7	6065.2	6107.1	6148.9
5239.1	45°	5153.9	5069.1	5110.6	5152.8	5276.5	5400.3	5562.6	5724.9	5785.0	5845.0
4946.8	47.5°	4875.5	4804.1	4843.4	4882.4	5003.6	5124.4	5284.5	5444.7	5513.8	5583.0
4689.5	50°	4626.2	4563.2	4624.3	4685.8	4800.1	4914.0	5057.4	5200.8	5289.6	5378.4
4497.7	52.5°	4435.1	4372.9	4464.9	4556.6	4661.5	4765.9	4899.5	5033.4	5138.6	5243.8
4395.8	55°	4296.8	4198.2	4328.8	4459.1	4571.9	4684.8	4801.9	4918.8	5030.1	5141.9
4334.6	57.5°	4190.5	4046.4	4186.9	4327.4	4459.8	4592.3	4708.0	4824.1	4936.6	5048.7
4277.1	60°	4090.4	3903.4	4026.7	4149.8	4301.9	4454.0	4571.6	4689.5	4802.3	4915.1
4210.2	62.5°	3976.5	3743.2	3821.5	3899.7	4077.0	4254.6	4380.1	4505.7	4609.1	4712.4
4069.0	65°	3820.7	3572.2	3602.4	3632.2	3822.2	4012.5	4132.6	4252.7	4343.7	4434.7
3817.1	67.5°	3610.4	3403.7	3394.2	3384.7	3560.2	3735.9	3849.9	3963.4	4042.0	4120.6
3497.6	70°	3350.5	3203.5	3170.7	3138.0	3292.3	3446.6	3544.9	3643.1	3714.1	3785.1
3141.6	72.5°	3040.8	2940.0	2891.9	2844.3	2965.8	3087.0	3175.8	3264.6	3334.1	3403.7
2737.6	75°	2660.1	2582.2	2536.4	2490.1	2580.4	2670.7	2751.1	2831.5	2894.9	2958.2
2332.9	77.5°	2270.7	2208.4	2161.9	2115.3	2188.8	2261.9	2331.1	2400.2	2466.8	2533.1
1871.4	80°	1819.4	1767.0	1728.0	1688.7	1749.9	1810.6	1868.9	1927.1	1977.7	2027.9
1376.5	82.5°	1351.0	1325.5	1297.8	1270.2	1265.1	1260.0	1239.6	1219.2	1327.0	1434.7
906.2	85°	878.9	851.6	820.7	789.8	763.6	737.0	680.6	624.2	725.0	826.2
400.3	87.5°	389.4	378.5	372.7	366.9	365.8	364.7	321.7	278.4	320.6	363.2
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: P954712
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CANDELA DISTRIBUTION (continued):

105°		110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
9484.5	0°	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5
8780.3	2.5°	8745.7	8718.8	8691.8	8667.1	8642.0	8611.0	8642.0	8667.1	8691.8	8718.8
8261.3	5°	8213.6	8179.8	8145.9	8120.1	8094.2	8068.8	8094.2	8120.1	8145.9	8179.8
7950.1	7.5°	7893.3	7854.4	7815.8	7792.5	7769.6	7752.1	7769.6	7792.5	7815.8	7854.4
7860.6	10°	7796.5	7759.8	7723.0	7703.4	7683.7	7675.7	7683.7	7703.4	7723.0	7759.8
8021.4	12.5°	7939.6	7898.4	7857.7	7840.9	7824.2	7821.3	7824.2	7840.9	7857.7	7898.4
8359.9	15°	8235.4	8178.3	8121.5	8099.7	8077.9	8076.0	8077.9	8099.7	8121.5	8178.3
8703.5	17.5°	8520.1	8435.6	8350.8	8323.2	8295.1	8290.8	8295.1	8323.2	8350.8	8435.6
8917.5	20°	8692.9	8584.8	8476.4	8441.8	8407.2	8396.3	8407.2	8441.8	8476.4	8584.8
8931.0	22.5°	8699.1	8585.2	8470.9	8432.7	8394.5	8378.1	8394.5	8432.7	8470.9	8585.2
8728.2	25°	8523.0	8424.0	8325.3	8289.3	8253.6	8232.5	8253.6	8289.3	8325.3	8424.0
8337.7	27.5°	8177.9	8111.7	8045.1	8028.7	8012.3	8006.9	8012.3	8028.7	8045.1	8111.7
7867.9	30°	7752.8	7719.0	7684.8	7684.8	7684.8	7690.2	7684.8	7684.8	7684.8	7719.0
7417.7	32.5°	7326.3	7304.1	7281.9	7284.8	7288.1	7293.5	7288.1	7284.8	7281.9	7304.1
7033.7	35°	6949.6	6915.8	6882.3	6875.0	6867.7	6864.1	6867.7	6875.0	6882.3	6915.8
6707.2	37.5°	6629.3	6567.8	6506.7	6474.3	6441.9	6423.7	6441.9	6474.3	6506.7	6567.8
6401.5	40°	6335.6	6246.1	6157.3	6096.9	6037.2	6001.5	6037.2	6096.9	6157.3	6246.1
6093.2	42.5°	6037.9	5926.9	5815.9	5728.2	5640.5	5583.0	5640.5	5728.2	5815.9	5926.9
5794.8	45°	5744.9	5617.9	5491.3	5388.3	5285.3	5219.0	5285.3	5388.3	5491.3	5617.9
5548.0	47.5°	5513.1	5400.3	5287.5	5192.1	5097.1	5033.4	5097.1	5192.1	5287.5	5400.3
5376.3	50°	5374.8	5284.5	5194.3	5106.2	5018.1	4957.0	5018.1	5106.2	5194.3	5284.5
5262.7	52.5°	5281.6	5208.1	5134.6	5055.6	4977.0	4920.6	4977.0	5055.6	5134.6	5208.1
5168.1	55°	5194.3	5130.2	5066.2	4997.0	4927.9	4876.9	4927.9	4997.0	5066.2	5130.2
5075.3	57.5°	5101.8	5037.1	4972.3	4903.9	4835.1	4782.3	4835.1	4903.9	4972.3	5037.1
4944.3	60°	4973.4	4910.0	4847.1	4776.5	4705.9	4651.3	4705.9	4776.5	4847.1	4910.0
4740.4	62.5°	4768.5	4711.3	4654.2	4579.9	4505.7	4440.2	4505.7	4579.9	4654.2	4711.3
4463.5	65°	4491.9	4436.9	4381.9	4309.9	4238.2	4181.8	4238.2	4309.9	4381.9	4436.9
4148.7	67.5°	4176.3	4125.7	4075.5	4008.5	3941.6	3890.6	3941.6	4008.5	4075.5	4125.7
3812.0	70°	3838.9	3797.8	3756.7	3692.6	3628.6	3570.3	3628.6	3692.6	3756.7	3797.8
3435.7	72.5°	3467.7	3433.5	3399.3	3338.1	3277.4	3221.0	3277.4	3338.1	3399.3	3433.5
2991.7	75°	3025.1	3008.4	2991.7	2940.3	2889.0	2835.2	2889.0	2940.3	2991.7	3008.4
2564.4	77.5°	2595.7	2572.4	2548.4	2496.7	2445.0	2402.1	2445.0	2496.7	2548.4	2572.4
2069.4	80°	2110.9	2100.7	2090.9	2021.4	1951.5	1870.7	1951.5	2021.4	2090.9	2100.7
1505.3	82.5°	1575.9	1571.5	1566.8	1508.2	1449.2	1397.6	1449.2	1508.2	1566.8	1571.5
913.5	85°	1000.9	993.6	986.3	940.4	894.6	848.0	894.6	940.4	986.3	993.6
398.5	87.5°	433.8	425.1	415.6	392.3	368.3	345.8	368.3	392.3	415.6	425.1
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: P954712
 CATALOG NUMBER: GALN-SB7D-850-U-SLR

CANDELA DISTRIBUTION (continued):

160°		165°	170°	175°	180°	185°	190°	195°	200°	205°	210°
9484.5	0°	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5
8745.7	2.5°	8780.3	8814.9	8857.8	8900.4	8955.3	9010.7	9065.6	9120.6	9183.2	9246.1
8213.6	5°	8261.3	8309.0	8377.4	8445.4	8534.2	8622.7	8720.2	8817.8	8928.0	9038.7
7893.3	7.5°	7950.1	8006.9	8087.7	8168.8	8276.9	8385.4	8508.4	8631.1	8776.6	8922.2
7796.5	10°	7860.6	7923.9	8021.1	8117.9	8239.8	8361.7	8494.2	8626.3	8771.9	8917.5
7939.6	12.5°	8021.4	8103.3	8227.1	8350.8	8476.7	8603.0	8706.4	8810.5	8906.6	9003.4
8235.4	15°	8359.9	8484.4	8660.5	8836.7	8946.2	9055.8	9082.7	9109.7	9096.5	9083.4
8520.1	17.5°	8703.5	8886.9	9120.2	9353.5	9441.6	9530.0	9445.9	9361.5	9202.8	9044.1
8692.9	20°	8917.5	9142.4	9408.8	9675.6	9716.7	9757.5	9581.0	9404.5	9128.6	8853.1
8699.1	22.5°	8931.0	9162.4	9417.2	9672.0	9647.6	9622.8	9393.2	9163.5	8848.3	8533.9
8523.0	25°	8728.2	8934.2	9142.8	9351.7	9267.6	9183.2	8957.2	8731.1	8448.0	8165.2
8177.9	27.5°	8337.7	8497.5	8646.0	8794.8	8700.6	8606.7	8425.4	8244.2	8012.0	7779.4
7752.8	30°	7867.9	7982.1	8095.7	8208.9	8132.4	8056.0	7905.3	7755.0	7562.1	7369.2
7326.3	32.5°	7417.7	7509.0	7613.5	7717.5	7632.4	7547.6	7403.1	7259.0	7104.7	6950.7
6949.6	35°	7033.7	7118.1	7192.0	7266.2	7164.3	7062.4	6919.4	6776.7	6659.5	6542.0
6629.3	37.5°	6707.2	6784.7	6819.0	6853.2	6727.2	6601.3	6458.6	6316.3	6232.3	6147.8
6335.6	40°	6401.5	6467.4	6459.4	6451.0	6305.8	6160.9	6023.4	5885.8	5825.0	5764.2
6037.9	42.5°	6093.2	6148.9	6107.1	6065.2	5908.7	5752.2	5621.6	5491.3	5441.4	5391.9
5744.9	45°	5794.8	5845.0	5785.0	5724.9	5562.6	5400.3	5276.5	5152.8	5110.6	5069.1
5513.1	47.5°	5548.0	5583.0	5513.8	5444.7	5284.5	5124.4	5003.6	4882.4	4843.4	4804.1
5374.8	50°	5376.3	5378.4	5289.6	5200.8	5057.4	4914.0	4800.1	4685.8	4624.3	4563.2
5281.6	52.5°	5262.7	5243.8	5138.6	5033.4	4899.5	4765.9	4661.5	4556.6	4464.9	4372.9
5194.3	55°	5168.1	5141.9	5030.1	4918.8	4801.9	4684.8	4571.9	4459.1	4328.8	4198.2
5101.8	57.5°	5075.3	5048.7	4936.6	4824.1	4708.0	4592.3	4459.8	4327.4	4186.9	4046.4
4973.4	60°	4944.3	4915.1	4802.3	4689.5	4571.6	4454.0	4301.9	4149.8	4026.7	3903.4
4768.5	62.5°	4740.4	4712.4	4609.1	4505.7	4380.1	4254.6	4077.0	3899.7	3821.5	3743.2
4491.9	65°	4463.5	4434.7	4343.7	4252.7	4132.6	4012.5	3822.2	3632.2	3602.4	3572.2
4176.3	67.5°	4148.7	4120.6	4042.0	3963.4	3849.9	3735.9	3560.2	3384.7	3394.2	3403.7
3838.9	70°	3812.0	3785.1	3714.1	3643.1	3544.9	3446.6	3292.3	3138.0	3170.7	3203.5
3467.7	72.5°	3435.7	3403.7	3334.1	3264.6	3175.8	3087.0	2965.8	2844.3	2891.9	2940.0
3025.1	75°	2991.7	2958.2	2894.9	2831.5	2751.1	2670.7	2580.4	2490.1	2536.4	2582.2
2595.7	77.5°	2564.4	2533.1	2466.8	2400.2	2331.1	2261.9	2188.8	2115.3	2161.9	2208.4
2110.9	80°	2069.4	2027.9	1977.7	1927.1	1868.9	1810.6	1749.9	1688.7	1728.0	1767.0
1575.9	82.5°	1505.3	1434.7	1327.0	1219.2	1239.6	1260.0	1265.1	1270.2	1297.8	1325.5
1000.9	85°	913.5	826.2	725.0	624.2	680.6	737.0	763.6	789.8	820.7	851.6
433.8	87.5°	398.5	363.2	320.6	278.4	321.7	364.7	365.8	366.9	372.7	378.5
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: P954712
 CATALOG NUMBER: GALN-SB7D-850-U-SLR

CANDELA DISTRIBUTION (continued):

215°		220°	225°	230°	235°	240°	245°	250°	255°	260°	265°
9484.5	0°	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5
9315.6	2.5°	9385.5	9471.8	9549.3	9629.4	9709.4	9793.1	9876.9	9959.8	10043.2	10121.4
9170.8	5°	9302.5	9453.6	9606.4	9768.4	9930.4	10103.6	10277.2	10449.3	10621.9	10794.7
9097.3	7.5°	9272.7	9468.1	9676.7	9902.7	10128.7	10385.3	10641.9	10905.4	11168.9	11453.8
9102.4	10°	9287.3	9497.3	9754.6	10022.4	10289.6	10601.5	10913.0	11261.0	11609.3	11969.9
9154.1	12.5°	9305.5	9500.9	9771.3	10073.8	10376.2	10743.8	11111.4	11505.9	11900.4	12296.4
9155.5	15°	9227.9	9384.4	9684.0	10034.1	10384.2	10807.5	11230.7	11658.8	12086.8	12499.8
9017.9	17.5°	8991.4	9087.8	9440.1	9861.2	10282.3	10773.6	11265.0	11731.9	12198.9	12617.8
8729.3	20°	8605.6	8631.1	9041.2	9563.1	10085.0	10680.5	11275.9	11789.0	12302.2	12737.9
8350.8	22.5°	8167.8	8117.9	8584.8	9213.4	9841.9	10566.2	11290.4	11866.2	12441.6	12886.7
7954.1	25°	7743.0	7608.4	8087.0	8822.9	9559.1	10453.4	11347.9	12006.0	12663.6	13099.3
7575.6	27.5°	7371.8	7208.0	7643.7	8465.8	9288.0	10378.0	11468.0	12224.3	12980.3	13396.2
7206.9	30°	7045.3	6916.9	7282.6	8167.4	9052.1	10342.7	11632.5	12507.1	13381.7	13783.1
6855.0	32.5°	6759.3	6702.1	6996.9	7910.1	8822.9	10299.0	11774.5	12802.3	13830.1	14227.5
6515.4	35°	6489.2	6512.9	6758.5	7657.1	8555.7	10216.8	11878.6	13138.6	14398.6	14779.6
6176.9	37.5°	6206.1	6292.7	6507.4	7359.4	8211.4	10075.9	11940.4	13515.3	15090.1	15575.6
5830.1	40°	5896.0	6028.8	6223.5	7004.2	7784.9	9882.0	11979.4	13993.5	16007.2	16714.7
5479.3	42.5°	5566.6	5734.0	5913.4	6612.2	7311.0	9681.8	12053.3	14619.1	17185.0	18206.2
5153.9	45°	5239.1	5401.0	5583.0	6195.9	6808.8	9495.8	12183.2	15442.4	18701.5	20079.1
4875.5	47.5°	4946.8	5086.2	5320.9	5866.5	6412.1	9342.2	12272.4	16319.5	20366.6	22305.7
4626.2	50°	4689.5	4851.4	5160.1	5647.8	6135.5	9174.8	12214.1	17133.3	22052.4	24975.7
4435.1	52.5°	4497.7	4724.1	5078.9	5503.6	5928.7	8892.0	11855.6	17661.7	23467.5	27780.3
4296.8	55°	4395.8	4736.8	5066.9	5399.2	5731.5	8423.2	11115.0	17545.3	23975.2	30266.8
4190.5	57.5°	4334.6	4749.5	5040.7	5275.4	5510.2	7762.3	10014.1	16725.7	23437.6	32029.0
4090.4	60°	4277.1	4709.5	4901.7	5086.2	5270.7	6904.1	8537.5	15200.3	21863.2	32469.4
3976.5	62.5°	4210.2	4611.2	4634.9	4757.2	4879.8	5877.1	6874.3	13137.8	19401.4	30615.1
3820.7	65°	4069.0	4374.7	4371.8	4429.6	4487.5	4953.0	5418.5	11033.5	16648.9	27991.3
3610.4	67.5°	3817.1	3988.9	3996.9	3964.9	3932.5	4064.9	4197.1	8972.1	13747.1	24869.0
3350.5	70°	3497.6	3554.0	3554.0	3404.4	3254.4	3216.9	3179.1	7064.3	10949.4	21462.1
3040.8	72.5°	3141.6	3140.9	3105.2	2893.0	2680.5	2566.2	2452.3	5400.6	8349.0	17768.7
2660.1	75°	2737.6	2751.5	2587.0	2348.9	2110.9	2007.5	1904.2	3919.7	5935.3	13534.9
2270.7	77.5°	2332.9	2340.2	2069.1	1837.9	1606.8	1536.2	1466.0	2656.1	3846.2	9473.2
1819.4	80°	1871.4	1872.5	1548.6	1353.2	1157.4	1128.2	1099.1	1711.3	2323.8	6103.4
1351.0	82.5°	1376.5	1361.2	1084.6	940.4	796.3	790.5	785.4	1052.5	1320.4	3532.5
878.9	85°	906.2	886.2	680.6	575.0	469.5	472.4	475.0	562.7	650.7	1589.0
389.4	87.5°	400.3	374.9	289.3	246.0	203.1	205.6	208.2	233.3	258.4	520.4
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: P954712
 CATALOG NUMBER: GALN-SB7D-850-U-SLR

CANDELA DISTRIBUTION (continued):

270°		275°	280°	285°	290°	295°	300°	305°	310°	315°	320°
9484.5	0°	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5
10199.7	2.5°	10238.3	10277.2	10332.2	10387.1	10419.9	10452.6	10469.0	10485.4	10478.1	10485.4
10967.6	5°	11102.6	11238.0	11372.0	11506.3	11579.0	11651.8	11695.9	11740.3	11773.8	11740.3
11739.2	7.5°	11959.0	12178.5	12376.1	12573.7	12692.7	12811.7	12876.2	12940.2	12971.2	12940.2
12330.6	10°	12590.5	12850.3	13082.2	13314.0	13454.5	13594.2	13656.8	13719.1	13742.7	13719.1
12692.7	12.5°	12974.4	13255.8	13465.4	13674.3	13776.2	13878.1	13912.3	13946.5	13950.2	13946.5
12912.9	15°	13156.0	13398.8	13530.2	13661.9	13665.6	13669.2	13632.8	13596.4	13553.5	13596.4
13036.7	17.5°	13200.8	13364.9	13367.5	13369.7	13222.3	13074.9	12939.9	12804.5	12709.1	12804.5
13173.1	20°	13230.3	13287.8	13114.9	12942.0	12616.7	12291.3	12054.4	11817.4	11671.9	11817.4
13331.5	22.5°	13256.5	13181.5	12823.4	12465.3	11986.7	11508.1	11211.8	10915.6	10754.7	10915.6
13535.3	25°	13298.7	13062.1	12518.4	11974.7	11393.4	10812.2	10500.7	10189.9	10037.7	10189.9
13811.9	27.5°	13389.0	12965.7	12245.4	11525.5	10881.4	10237.2	9930.7	9624.6	9480.9	9624.6
14184.9	30°	13554.2	12923.8	12037.3	11150.7	10479.6	9808.4	9524.2	9239.9	9106.0	9239.9
14625.3	32.5°	13761.7	12898.4	11895.3	10892.3	10261.6	9630.8	9407.7	9184.3	9087.8	9184.3
15160.3	35°	14103.4	13046.9	12001.6	10956.7	10518.5	10080.7	10028.6	9976.6	9968.6	9976.6
16061.1	37.5°	14817.8	13574.6	12624.7	11674.8	11646.4	11618.0	11856.0	12094.0	12217.8	12094.0
17422.3	40°	16070.2	14718.1	14011.7	13305.3	13803.9	14302.5	14881.2	15459.8	15748.1	15459.8
19227.4	42.5°	17885.9	16544.4	16137.5	15730.6	16818.1	17905.6	18958.1	20010.7	20628.6	20010.7
21456.6	45°	20251.6	19046.2	18866.8	18687.0	20429.2	22171.8	23901.3	25631.1	26681.1	25631.1
24244.5	47.5°	23072.2	21899.6	21863.2	21826.8	24340.2	26852.9	29384.9	31916.5	33403.3	31916.5
27898.5	50°	26450.4	25002.6	25008.8	25015.0	28254.1	31493.3	34835.4	38177.6	40198.2	38177.6
32093.1	52.5°	30339.5	28586.4	28409.2	28231.5	32100.7	35969.8	40105.0	44239.9	46661.9	44239.9
36558.7	55°	34826.3	33093.9	32402.8	31711.6	36017.9	40323.8	45253.5	50183.2	53063.8	50183.2
40620.4	57.5°	39677.0	38733.3	37347.0	35961.1	40309.2	44657.3	50241.0	55824.4	59396.5	55824.4
43075.2	60°	44540.5	46006.1	44284.6	42563.1	46678.0	50792.8	56771.0	62749.2	66610.0	62749.2
41828.7	62.5°	45832.5	49836.3	49642.3	49448.0	53217.4	56987.2	62675.0	68362.4	71930.9	68362.4
39333.8	65°	43091.6	46849.4	47592.9	48336.1	53126.4	57917.1	63432.4	68947.3	71985.5	68947.3
35990.9	67.5°	39564.9	43138.9	43487.6	43835.9	48827.1	53817.9	59356.9	64895.8	67276.0	64895.8
31974.8	70°	35862.1	39749.8	39905.6	40061.7	44525.2	48988.3	53754.9	58521.2	59844.2	58521.2
27188.8	72.5°	31649.8	36111.1	36223.1	36334.9	39827.0	43319.1	46889.0	50458.7	50592.6	50458.7
21134.5	75°	25751.6	30368.7	30783.2	31197.7	33914.6	36631.5	39144.6	41657.6	40984.3	41657.6
15100.3	77.5°	19410.1	23720.4	24313.6	24906.9	26972.3	29037.7	30820.0	32602.6	31445.2	32602.6
9883.0	80°	13509.1	17134.7	17872.1	18609.5	20169.3	21728.5	22664.6	23600.3	21738.7	23600.3
5744.9	82.5°	8223.8	10703.0	11526.6	12350.6	13424.3	14497.9	14888.4	15278.6	13815.5	15278.6
2527.6	85°	3843.3	5159.0	5859.6	6560.2	7442.4	8324.2	8545.9	8767.5	7595.6	8767.5
782.5	87.5°	1224.7	1666.9	2057.8	2448.7	2889.8	3330.9	3349.8	3368.4	2827.9	3368.4
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: P954712
 CATALOG NUMBER: GALN-SB7D-850-U-SLR

CANDELA DISTRIBUTION (continued):

325°		330°	335°	340°	345°	350°	355°	360°
9484.5	0°	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5	9484.5
10469.0	2.5°	10452.6	10419.9	10387.1	10332.2	10277.2	10238.3	10199.7
11695.9	5°	11651.8	11579.0	11506.3	11372.0	11238.0	11102.6	10967.6
12876.2	7.5°	12811.7	12692.7	12573.7	12376.1	12178.5	11959.0	11739.2
13656.8	10°	13594.2	13454.5	13314.0	13082.2	12850.3	12590.5	12330.6
13912.3	12.5°	13878.1	13776.2	13674.3	13465.4	13255.8	12974.4	12692.7
13632.8	15°	13669.2	13665.6	13661.9	13530.2	13398.8	13156.0	12912.9
12939.9	17.5°	13074.9	13222.3	13369.7	13367.5	13364.9	13200.8	13036.7
12054.4	20°	12291.3	12616.7	12942.0	13114.9	13287.8	13230.3	13173.1
11211.8	22.5°	11508.1	11986.7	12465.3	12823.4	13181.5	13256.5	13331.5
10500.7	25°	10812.2	11393.4	11974.7	12518.4	13062.1	13298.7	13535.3
9930.7	27.5°	10237.2	10881.4	11525.5	12245.4	12965.7	13389.0	13811.9
9524.2	30°	9808.4	10479.6	11150.7	12037.3	12923.8	13554.2	14184.9
9407.7	32.5°	9630.8	10261.6	10892.3	11895.3	12898.4	13761.7	14625.3
10028.6	35°	10080.7	10518.5	10956.7	12001.6	13046.9	14103.4	15160.3
11856.0	37.5°	11618.0	11646.4	11674.8	12624.7	13574.6	14817.8	16061.1
14881.2	40°	14302.5	13803.9	13305.3	14011.7	14718.1	16070.2	17422.3
18958.1	42.5°	17905.6	16818.1	15730.6	16137.5	16544.4	17885.9	19227.4
23901.3	45°	22171.8	20429.2	18687.0	18866.8	19046.2	20251.6	21456.6
29384.9	47.5°	26852.9	24340.2	21826.8	21863.2	21899.6	23072.2	24244.5
34835.4	50°	31493.3	28254.1	25015.0	25008.8	25002.6	26450.4	27898.5
40105.0	52.5°	35969.8	32100.7	28231.5	28409.2	28586.4	30339.5	32093.1
45253.5	55°	40323.8	36017.9	31711.6	32402.8	33093.9	34826.3	36558.7
50241.0	57.5°	44657.3	40309.2	35961.1	37347.0	38733.3	39677.0	40620.4
56771.0	60°	50792.8	46678.0	42563.1	44284.6	46006.1	44540.5	43075.2
62675.0	62.5°	56987.2	53217.4	49448.0	49642.3	49836.3	45832.5	41828.7
63432.4	65°	57917.1	53126.4	48336.1	47592.9	46849.4	43091.6	39333.8
59356.9	67.5°	53817.9	48827.1	43835.9	43487.6	43138.9	39564.9	35990.9
53754.9	70°	48988.3	44525.2	40061.7	39905.6	39749.8	35862.1	31974.8
46889.0	72.5°	43319.1	39827.0	36334.9	36223.1	36111.1	31649.8	27188.8
39144.6	75°	36631.5	33914.6	31197.7	30783.2	30368.7	25751.6	21134.5
30820.0	77.5°	29037.7	26972.3	24906.9	24313.6	23720.4	19410.1	15100.3
22664.6	80°	21728.5	20169.3	18609.5	17872.1	17134.7	13509.1	9883.0
14888.4	82.5°	14497.9	13424.3	12350.6	11526.6	10703.0	8223.8	5744.9
8545.9	85°	8324.2	7442.4	6560.2	5859.6	5159.0	3843.3	2527.6
3349.8	87.5°	3330.9	2889.8	2448.7	2057.8	1666.9	1224.7	782.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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