

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: P949267

Luminaire Tested: **GALN-SB4A-827-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949267  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4A-827-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

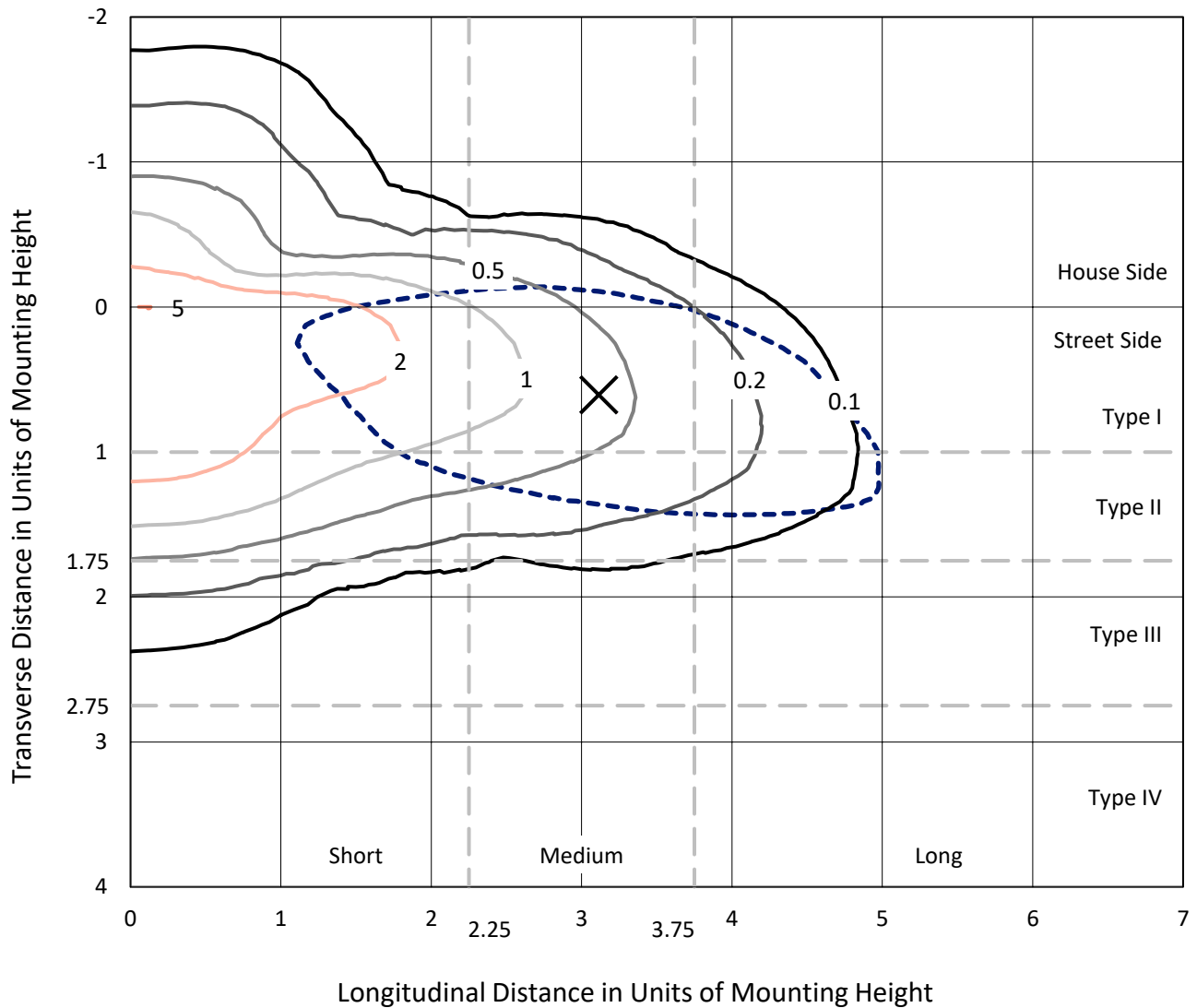
Lumens per Lamp: N/A  
Luminaire Lumens: 15538 lumens  
Efficiency: N/A  
Efficacy: 136.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

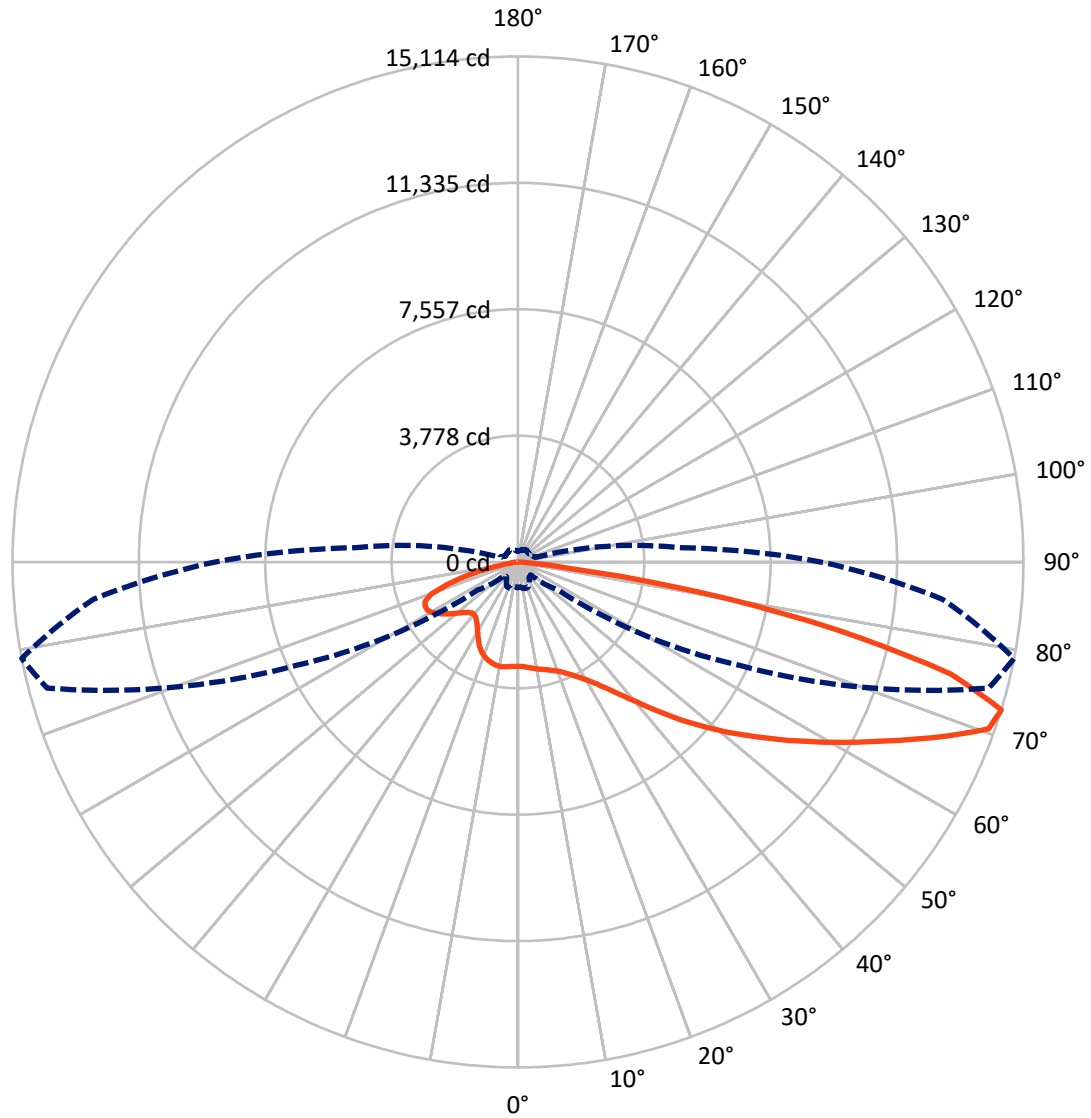
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Medium - N/A

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CATALOG NUMBER: GALN-SB4A-827-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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CATALOG NUMBER: GALN-SB4A-827-U-SL2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3419.2	0.0	3419.2
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	12118.8	0.0	12118.8
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	15538.0	0.0	15538.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.1	1.8
10°-20°	740.2	4.8
20°-30°	1194.4	7.7
30°-40°	1792.7	11.5
40°-50°	2543.0	16.4
50°-60°	3211.5	20.7
60°-70°	3261.7	21.0
70°-80°	2223.0	14.3
80°-90°	288.4	1.9
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°	15538.0	100.0
0°-180°	15538.0	100.0



REPORT NUMBER: P949267

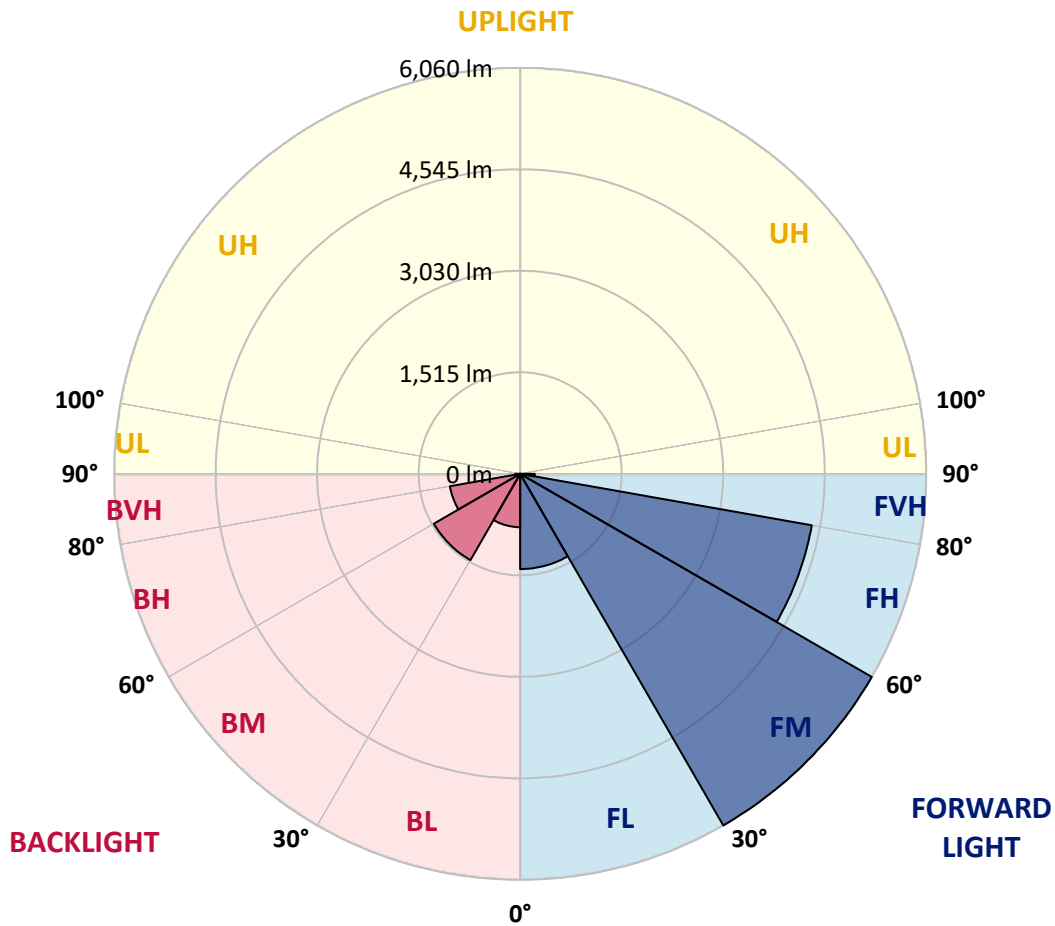
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1421.3	9.1			
FM (30°-60°)	6060.1	39.0			
FH (60°-80°)	4420.0	28.4			G2/5000
FVH (80°-90°)	217.3	1.4			G2/225
BL (0°-30°)	796.4	5.1	B2/1000		
BM (30°-60°)	1487.0	9.6	B2/2500		
BH (60°-80°)	1064.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	71.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium



REPORT NUMBER: P949267

CATALOG NUMBER: GALN-SB4A-827-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1
2.5°	3120.7	3106.0	3115.0	3111.7	3115.8	3120.7	3122.4	3124.9	3133.1	3132.3
5°	3114.2	3099.4	3111.7	3107.6	3118.3	3129.8	3139.7	3148.7	3161.8	3167.6
7.5°	3100.2	3090.3	3102.7	3115.0	3134.7	3152.0	3166.0	3186.5	3205.4	3208.7
10°	3018.8	3011.4	3040.2	3072.3	3126.5	3173.4	3203.8	3227.6	3248.1	3251.4
12.5°	2934.2	2925.1	2957.2	3000.8	3088.7	3173.4	3237.5	3268.7	3286.8	3297.5
15°	2920.2	2912.8	2930.9	2968.7	3041.8	3151.2	3260.5	3318.0	3333.6	3345.9
17.5°	2987.6	2973.6	2981.0	2994.2	3036.9	3130.6	3278.6	3373.9	3397.7	3410.9
20°	3143.8	3124.0	3112.5	3086.2	3078.8	3133.9	3276.9	3441.3	3472.5	3489.0
22.5°	3351.7	3338.6	3313.9	3247.3	3175.0	3174.2	3308.1	3527.6	3585.9	3601.6
25°	3603.2	3583.5	3552.2	3461.8	3322.9	3253.9	3360.7	3637.7	3735.5	3739.6
27.5°	3892.5	3862.9	3820.2	3701.0	3513.6	3378.8	3441.3	3764.3	3907.3	3905.7
30°	4197.4	4167.8	4122.6	3978.0	3742.1	3547.3	3553.1	3900.7	4111.1	4102.1
32.5°	4420.2	4398.0	4388.9	4277.2	4005.1	3746.2	3681.3	4052.0	4362.6	4354.4
35°	4591.1	4562.4	4573.0	4516.3	4292.0	3968.9	3838.3	4232.0	4668.4	4667.6
37.5°	4760.4	4735.0	4744.0	4706.2	4557.4	4251.7	4029.8	4452.2	5047.3	5065.4
40°	4915.0	4887.8	4924.0	4888.7	4763.7	4552.5	4247.6	4701.3	5486.2	5520.7
42.5°	5007.8	4986.5	5046.5	5047.3	4942.9	4806.5	4486.7	4975.8	5994.1	6071.4
45°	5039.9	5032.5	5122.9	5141.8	5101.5	4953.6	4702.1	5274.9	6541.5	6679.6
47.5°	5005.4	4991.4	5116.3	5186.2	5218.2	5022.6	4880.4	5598.8	7100.4	7302.6
50°	4831.1	4804.0	4989.7	5136.9	5251.1	5067.8	5060.4	5972.7	7735.7	7956.8
52.5°	4518.0	4497.4	4708.7	4964.3	5178.8	5090.0	5262.6	6381.2	8339.0	8625.0
55°	4117.7	4090.6	4323.2	4656.9	4998.8	5082.6	5464.8	6838.2	9050.7	9340.9
57.5°	3483.2	3429.0	3723.2	4117.7	4705.4	5073.6	5675.2	7292.7	9774.0	10121.7
60°	2557.7	2477.2	2838.0	3305.7	4131.7	4985.6	5935.8	7802.3	10641.9	10955.1
62.5°	1489.3	1442.4	1678.3	2114.7	3114.2	4467.8	6082.1	8394.9	11495.1	11823.8
65°	1156.4	1143.3	1163.8	1197.5	1733.4	3345.1	5630.8	8972.7	12580.0	12810.1
67.5°	1057.8	1047.9	1057.0	993.7	879.4	1863.2	4454.7	9119.0	13742.1	13881.9
70°	940.3	928.7	958.3	904.1	692.0	847.4	2878.3	8588.0	14666.8	14929.0
72.5°	766.0	752.9	821.9	797.2	582.7	544.1	1445.7	7326.4	14569.8	15113.9
75°	588.5	581.1	663.3	683.8	475.1	428.2	693.7	5445.9	12821.6	13369.8
77.5°	457.0	451.2	493.1	567.9	383.0	332.0	426.6	3454.4	9662.2	9758.4
80°	342.7	326.3	364.9	439.7	298.3	242.5	289.3	2014.5	6107.5	5536.3
82.5°	214.5	206.3	238.4	293.4	210.4	166.8	188.2	1112.9	2447.6	1441.6
85°	122.5	119.2	129.9	167.7	114.2	96.2	107.7	491.5	447.1	307.4
87.5°	49.3	47.7	59.2	74.8	41.9	35.3	37.8	118.4	98.6	91.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949267  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3119.1	0°	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1	3119.1
3131.4	2.5°	3128.1	3128.1	3116.6	3098.6	3078.0	3064.9	3043.5	3037.7	3015.5	3009.0
3159.4	5°	3166.0	3159.4	3124.0	3073.1	3003.2	2939.1	2868.4	2824.0	2761.6	2739.4
3214.4	7.5°	3213.6	3195.5	3134.7	3022.9	2876.6	2732.8	2583.2	2469.8	2361.3	2322.7
3259.7	10°	3257.2	3231.7	3128.1	2932.5	2679.4	2430.4	2192.0	2025.2	1898.6	1846.8
3309.8	12.5°	3300.7	3253.9	3084.6	2782.1	2399.1	2061.3	1807.4	1677.5	1599.4	1537.0
3350.9	15°	3341.8	3276.1	3017.2	2580.8	2091.7	1749.0	1561.6	1458.0	1395.6	1354.5
3410.9	17.5°	3389.5	3295.0	2916.1	2325.2	1799.1	1532.8	1380.0	1317.5	1305.2	1300.2
3493.1	20°	3456.1	3312.3	2782.9	2039.1	1583.8	1360.2	1281.3	1275.6	1274.8	1272.3
3591.7	22.5°	3527.6	3332.8	2607.1	1779.4	1400.5	1252.6	1238.6	1227.1	1219.7	1218.9
3710.9	25°	3612.2	3339.4	2386.8	1566.5	1244.4	1201.6	1185.2	1167.9	1163.0	1163.0
3846.5	27.5°	3694.4	3317.2	2130.4	1381.6	1156.4	1154.8	1133.4	1127.6	1126.8	1129.3
4001.0	30°	3776.6	3275.3	1875.6	1210.7	1105.5	1105.5	1098.1	1102.2	1105.5	1113.7
4213.1	32.5°	3887.6	3230.9	1662.7	1084.1	1061.1	1052.9	1060.2	1068.5	1071.8	1082.4
4491.7	35°	4050.3	3199.7	1493.4	1015.0	1015.0	1004.4	1008.5	1006.8	999.4	994.5
4828.7	37.5°	4265.7	3198.0	1353.7	983.0	976.4	974.8	975.6	964.9	936.1	901.6
5236.3	40°	4524.6	3242.4	1246.0	960.8	955.9	965.7	960.8	932.0	853.1	793.1
5737.7	42.5°	4872.2	3369.0	1177.0	933.7	948.5	960.8	941.1	841.6	788.2	747.9
6308.9	45°	5281.5	3574.4	1141.6	904.9	934.5	949.3	854.0	810.4	767.7	719.2
6931.9	47.5°	5745.1	3833.3	1133.4	877.8	903.3	912.3	817.0	797.2	748.7	696.1
7558.2	50°	6249.7	4139.9	1155.6	845.7	858.1	826.8	804.6	786.6	736.4	684.6
8200.1	52.5°	6771.6	4477.7	1200.0	802.2	812.9	778.3	799.7	784.1	729.0	659.2
8863.4	55°	7284.5	4818.0	1242.7	751.2	766.8	734.8	785.7	774.2	695.3	616.4
9571.0	57.5°	7805.6	5156.6	1284.6	706.0	722.4	692.9	763.5	747.9	657.5	577.0
10343.6	60°	8347.2	5485.4	1304.4	662.5	674.0	654.2	729.8	702.7	614.8	536.7
11103.0	62.5°	8854.3	5759.0	1272.3	618.9	626.3	618.1	685.5	649.3	572.0	491.5
11894.5	65°	9363.1	5921.8	1173.7	576.2	577.8	573.7	623.0	591.8	521.9	452.0
12587.4	67.5°	9824.2	6013.0	1016.7	530.1	526.0	524.4	564.6	529.3	473.4	412.6
13114.2	70°	9922.0	5781.2	776.7	475.9	475.9	471.8	500.5	464.4	420.0	370.7
12737.0	72.5°	9062.3	4863.2	551.5	414.2	420.8	412.6	436.4	406.0	365.7	332.9
10977.3	75°	7307.5	3566.2	401.1	351.0	362.5	348.5	370.7	349.3	314.8	314.0
7564.8	77.5°	5021.0	2205.2	291.0	289.3	297.5	279.4	304.9	293.4	262.2	248.2
3292.5	80°	2142.7	879.4	212.0	223.6	223.6	207.1	236.7	240.0	212.9	206.3
635.3	82.5°	426.6	249.9	148.8	153.7	144.7	139.7	167.7	185.7	256.4	285.2
191.5	85°	128.2	92.1	89.6	83.8	74.0	74.8	98.6	186.6	230.1	131.5
63.3	87.5°	35.3	23.0	23.8	18.9	15.6	20.5	33.7	141.4	77.3	32.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
3119.1
3019.7
2755.8
2327.6
1858.3
1557.5
1361.9
1303.5
1280.5
1227.9
1167.9
1135.9
1119.4
1091.5
1006.0
902.4
791.5
746.3
715.9
692.0
678.9
654.2
612.3
575.3
534.2
490.7
447.1
407.7
369.0
<b>323.0</b>
282.7
232.6
206.3
286.0
113.4
27.9
0.0

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