

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: P956880

Luminaire Tested: **GALN-SB9B-927-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956880  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9B-927-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

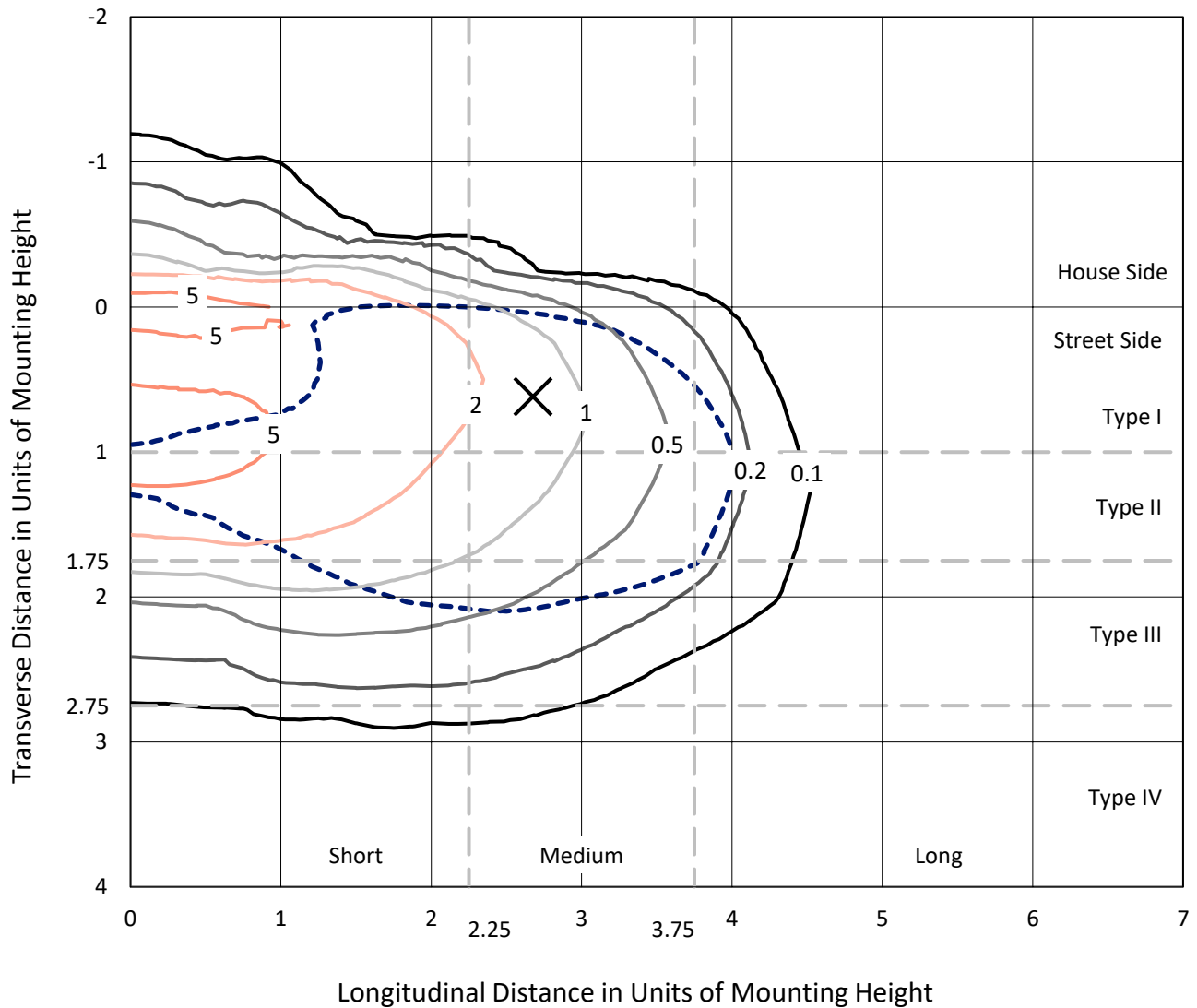
Lumens per Lamp: N/A  
Luminaire Lumens: 25992 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

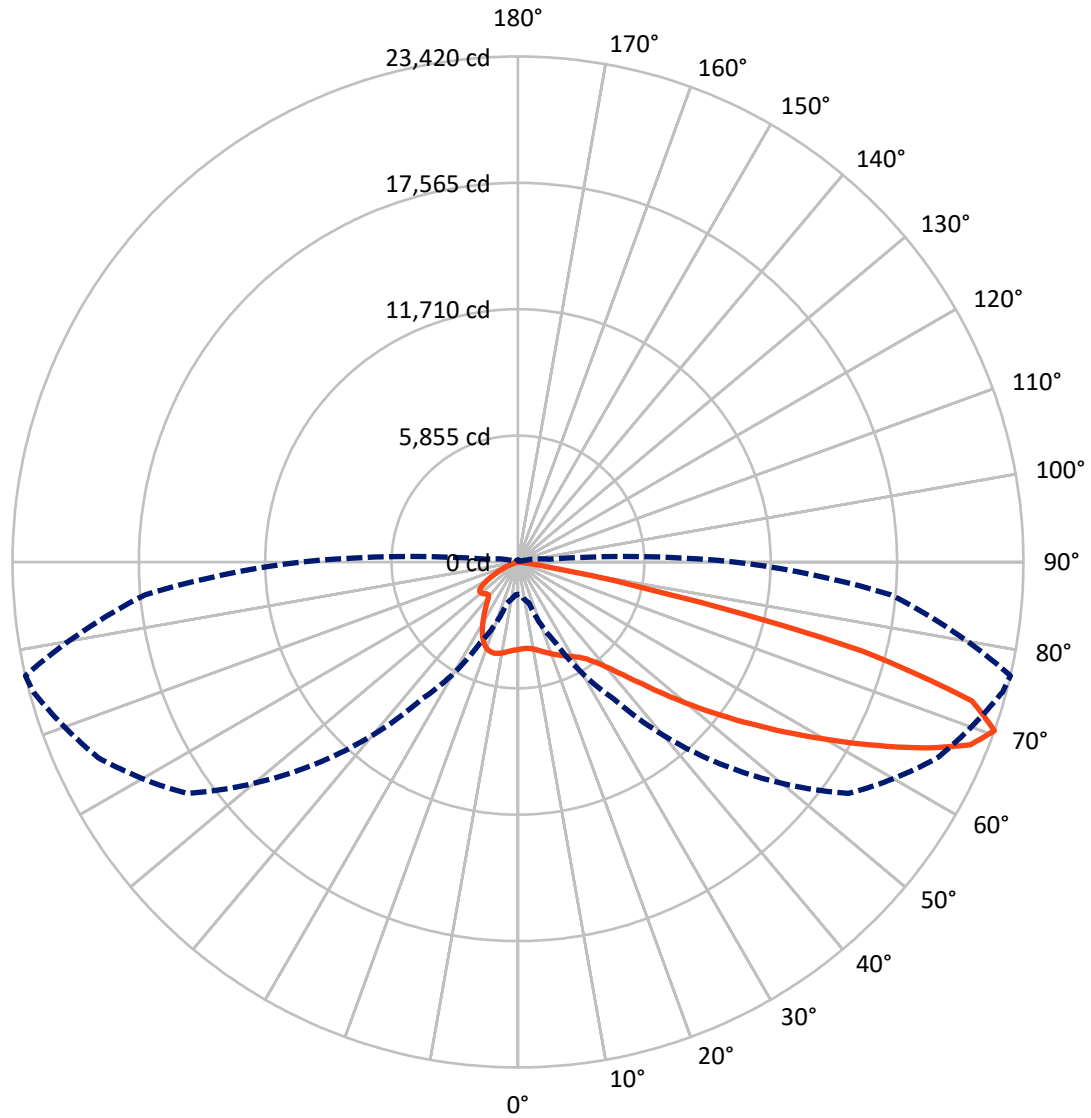
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2739.9	0.0	2739.9
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	23252.1	0.0	23252.1
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	25992.0	0.0	25992.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.4	1.3
10°-20°	829.5	3.2
20°-30°	1283.0	4.9
30°-40°	2328.0	9.0
40°-50°	4394.4	16.9
50°-60°	6349.5	24.4
60°-70°	6758.9	26.0
70°-80°	3581.7	13.8
80°-90°	117.6	0.5
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°	25992.0	100.0
0°-180°	25992.0	100.0

**Coefficient of Utilization**



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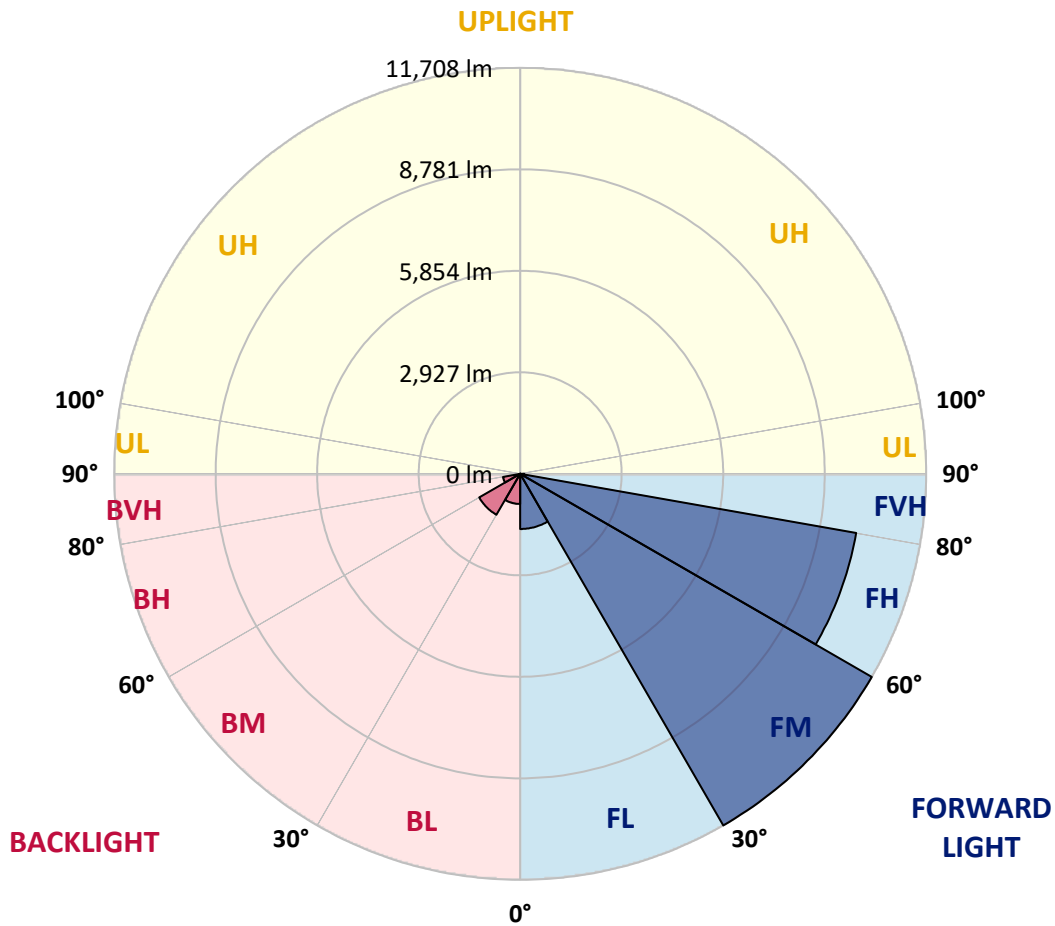
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1591.3	6.1			
FM (30°-60°)	11708.0	45.0			
FH (60°-80°)	9838.3	37.9			G4/12000
FVH (80°-90°)	114.4	0.4			G2/225
BL (0°-30°)	870.5	3.3	B2/1000		
BM (30°-60°)	1363.9	5.2	B2/2500		
BH (60°-80°)	502.3	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3
2.5°	3806.4	3840.9	3836.0	3859.0	3867.2	3900.0	3932.8	3977.1	4026.4	4024.7
5°	3591.4	3625.9	3634.1	3665.3	3704.7	3755.5	3822.8	3911.5	4003.4	4018.2
7.5°	3337.0	3373.1	3394.4	3456.8	3529.0	3634.1	3744.1	3873.7	4026.4	4047.7
10°	3082.6	3115.4	3143.3	3231.9	3346.8	3502.8	3681.7	3868.8	4074.0	4105.2
12.5°	2925.0	2956.2	2987.4	3064.5	3207.3	3397.7	3640.6	3891.8	4152.8	4197.1
15°	2869.2	2897.1	2921.7	2990.6	3123.6	3340.3	3632.4	3939.4	4252.9	4312.0
17.5°	2877.4	2892.2	2908.6	2961.1	3090.8	3314.0	3647.2	4021.5	4371.1	4423.6
20°	2925.0	2933.2	2934.8	2971.0	3085.9	3310.7	3676.8	4100.2	4482.7	4553.3
22.5°	2985.7	2989.0	2985.7	3010.3	3117.0	3335.3	3716.2	4195.4	4607.4	4673.1
25°	3269.7	3207.3	3128.5	3080.9	3169.6	3382.9	3775.2	4323.5	4743.7	4807.7
27.5°	4151.1	3972.2	3689.9	3373.1	3277.9	3451.9	3857.3	4453.1	4881.6	4939.0
30°	5582.4	5347.7	4868.4	4154.4	3625.9	3596.3	3964.0	4582.8	5027.6	5090.0
32.5°	7017.0	6959.6	6406.4	5418.3	4408.8	3918.0	4141.3	4758.4	5221.3	5270.6
35°	8468.0	8351.5	7898.5	6921.8	5615.3	4573.0	4436.7	4988.2	5475.7	5531.6
37.5°	9579.3	9508.7	9228.0	8423.7	7046.6	5584.1	4942.3	5344.4	5845.1	5907.4
40°	10560.8	10528.0	10432.8	9902.6	8646.9	6907.1	5728.5	5895.9	6357.2	6431.0
42.5°	11332.3	11409.4	11463.6	11315.9	10296.6	8417.2	6785.6	6670.7	7071.2	7146.7
45°	12121.8	12148.1	12366.4	12579.8	11934.7	9996.2	7977.3	7578.4	7959.2	8052.8
47.5°	12629.0	12734.1	13118.1	13494.0	13311.8	11562.1	9257.6	8650.2	8988.4	9164.0
50°	12666.8	12865.4	13393.9	14048.8	14314.7	13052.5	10649.5	9871.4	10230.9	10424.6
52.5°	12038.1	12346.7	13165.7	14124.3	14856.4	14314.7	12089.0	11092.6	11553.9	11806.7
55°	9229.6	9633.4	12307.3	13714.0	14877.7	15271.7	13490.7	12364.7	13027.9	13313.5
57.5°	8041.3	8244.8	9676.1	13001.6	14482.2	15657.4	14757.9	13576.1	14631.5	14986.1
60°	6690.4	6957.9	8115.1	11836.2	13945.4	15695.2	15877.4	15138.7	16369.8	16768.6
62.5°	4546.7	4837.2	5987.9	9833.7	13211.7	15677.1	16794.9	16747.3	18301.7	18730.1
65°	2816.7	2998.9	3757.2	8029.8	12185.8	15696.8	17755.1	18700.6	20340.4	20775.3
67.5°	2225.8	2309.5	2705.0	6165.1	10418.0	15253.6	18713.7	20537.3	22259.2	22603.9
70°	1495.3	1546.2	1968.1	4133.1	7750.7	13208.4	18695.7	21459.8	23247.3	23419.6
72.5°	787.9	827.3	1150.6	1913.9	4681.3	9388.9	15759.2	20356.8	22264.1	22004.7
75°	393.9	459.6	774.7	971.7	1999.2	5236.1	9786.1	16049.7	17523.7	16519.1
77.5°	298.7	361.1	640.1	640.1	696.0	1762.9	4144.6	8753.6	8074.1	6723.2
80°	190.4	246.2	559.7	484.2	290.5	448.1	1080.0	2452.3	1715.3	1304.9
82.5°	111.6	160.9	466.2	320.1	162.5	165.8	305.3	522.0	444.8	346.3
85°	44.3	105.1	320.1	126.4	64.0	41.0	91.9	111.6	91.9	68.9
87.5°	0.0	24.6	55.8	0.0	4.9	3.3	6.6	8.2	8.2	6.6
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):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4054.3	0°	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3
4057.6	2.5°	4072.3	4075.6	4085.5	4087.1	4064.1	4034.6	4023.1	4018.2	3998.5	3996.8
4083.8	5°	4121.6	4136.4	4121.6	4078.9	3977.1	3834.3	3726.0	3637.4	3556.9	3532.3
4174.1	7.5°	4220.1	4234.8	4190.5	4023.1	3767.0	3483.1	3227.0	3046.5	2884.0	2823.2
4284.1	10°	4361.2	4380.9	4241.4	3903.3	3450.2	2993.9	2560.6	2255.3	2017.3	1920.4
4433.4	12.5°	4538.5	4546.7	4269.3	3721.1	3038.2	2386.6	1772.7	1446.1	1234.3	1155.6
4614.0	15°	4733.8	4722.3	4272.6	3473.2	2476.9	1687.4	1157.2	950.4	865.0	838.8
4794.6	17.5°	4939.0	4891.4	4206.9	3115.4	1861.4	1153.9	858.5	809.2	794.4	787.9
4973.5	20°	5140.9	5034.2	4087.1	2647.6	1336.1	861.7	779.7	764.9	756.7	753.4
5154.0	22.5°	5324.7	5142.5	3881.9	2104.3	970.1	761.6	737.0	723.9	709.1	702.5
5329.7	25°	5503.6	5204.9	3593.0	1597.1	776.4	712.4	692.7	668.1	648.4	640.1
5518.4	27.5°	5677.6	5244.3	3231.9	1181.8	692.7	666.4	630.3	595.8	581.1	577.8
5720.3	30°	5863.1	5257.4	2821.6	881.4	641.8	609.0	556.4	517.0	508.8	510.5
5992.8	32.5°	6089.6	5277.1	2407.9	722.2	599.1	540.0	477.7	436.6	430.0	436.6
6390.0	35°	6360.5	5316.5	2009.1	664.8	561.4	469.4	402.1	367.7	361.1	366.0
6898.8	37.5°	6728.1	5380.5	1636.5	653.3	530.2	410.4	338.1	310.2	310.2	311.9
7522.6	40°	7217.3	5551.2	1303.3	645.1	513.8	366.0	285.6	274.1	279.0	282.3
8317.0	42.5°	7813.1	5914.0	1078.4	635.2	495.7	346.3	259.3	254.4	262.6	265.9
9269.0	45°	8481.2	6373.6	999.6	618.8	479.3	359.5	247.9	241.3	251.1	252.8
10336.0	47.5°	9172.2	6823.3	989.8	600.8	462.9	379.2	244.6	229.8	241.3	242.9
11475.1	50°	9871.4	7117.2	999.6	572.9	436.6	379.2	246.2	218.3	228.2	233.1
12656.9	52.5°	10575.6	7251.7	993.1	512.1	390.7	356.2	246.2	208.5	218.3	221.6
13933.9	55°	11258.4	7225.5	892.9	421.8	331.6	315.2	239.6	200.3	206.8	208.5
15140.4	57.5°	11798.5	6859.5	707.4	328.3	269.2	262.6	218.3	190.4	195.3	193.7
16246.7	60°	12080.8	6055.2	505.6	252.8	211.7	206.8	192.0	177.3	180.6	172.3
17183.9	62.5°	12084.1	4991.5	338.1	200.3	169.1	164.1	164.1	159.2	155.9	139.5
17909.4	65°	11826.4	3811.4	224.9	159.2	136.2	128.0	137.9	136.2	124.7	101.8
18131.0	67.5°	11242.0	2498.2	170.7	124.7	105.1	100.1	110.0	114.9	106.7	85.4
17323.4	70°	10040.5	1454.3	141.2	96.8	78.8	73.9	88.6	98.5	88.6	68.9
14807.2	72.5°	8340.0	784.6	114.9	72.2	54.2	49.2	70.6	80.4	70.6	50.9
9500.5	75°	5411.7	420.2	88.6	47.6	27.9	31.2	52.5	59.1	49.2	32.8
2788.8	77.5°	1817.0	185.5	55.8	23.0	13.1	13.1	31.2	36.1	23.0	11.5
507.2	80°	405.4	77.1	23.0	9.8	4.9	4.9	6.6	6.6	3.3	0.0
155.9	82.5°	133.0	31.2	9.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0
39.4	85°	50.9	11.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.1	87.5°	19.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
4054.3
4000.1
3517.5
2798.6
1879.4
1130.9
838.8
786.2
750.1
700.9
636.9
574.5
510.5
435.0
364.4
310.2
282.3
265.9
254.4
244.6
234.7
221.6
208.5
193.7
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