

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: P951521

Luminaire Tested: **GALN-SB5C-927-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-927-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19497 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

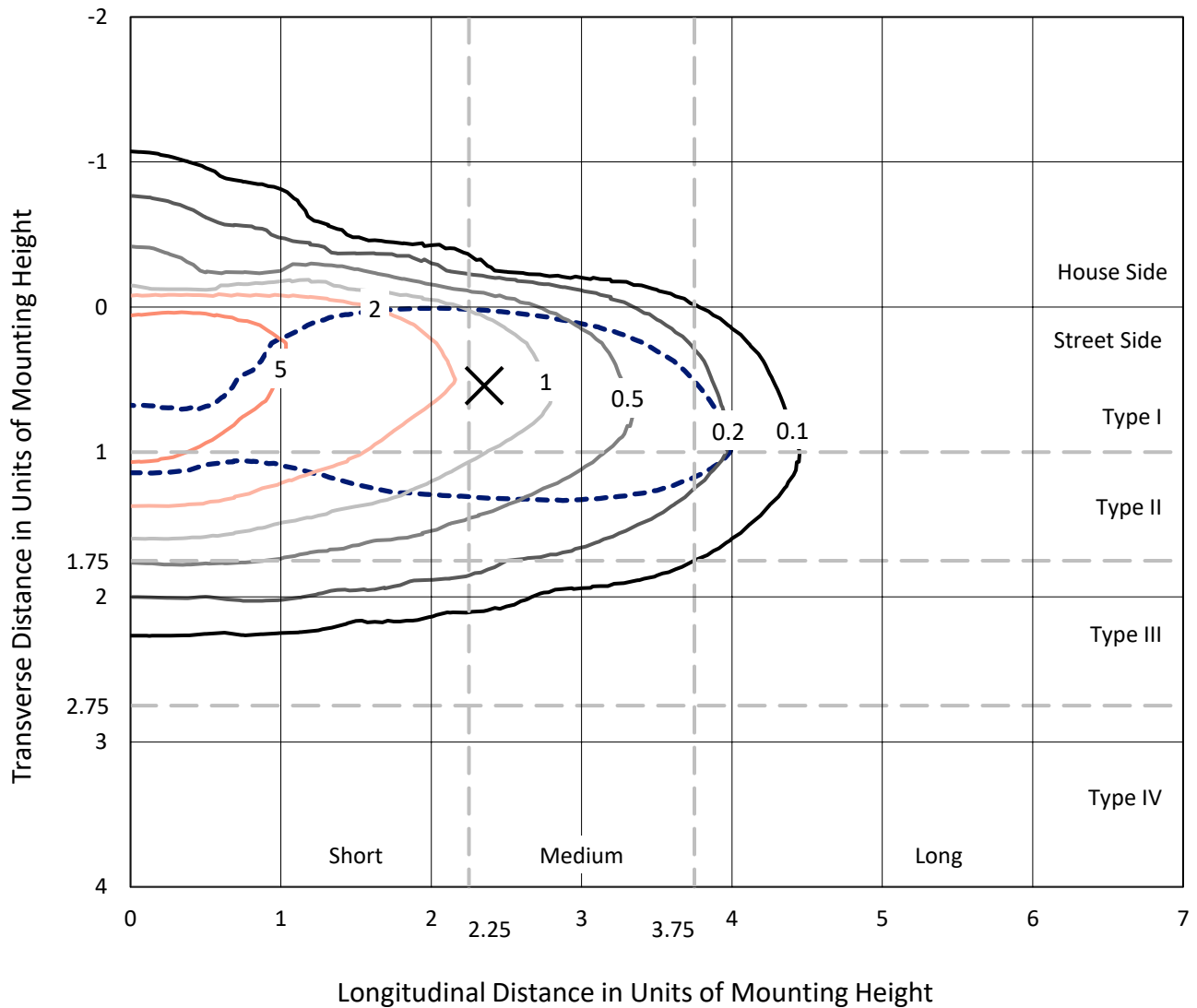
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

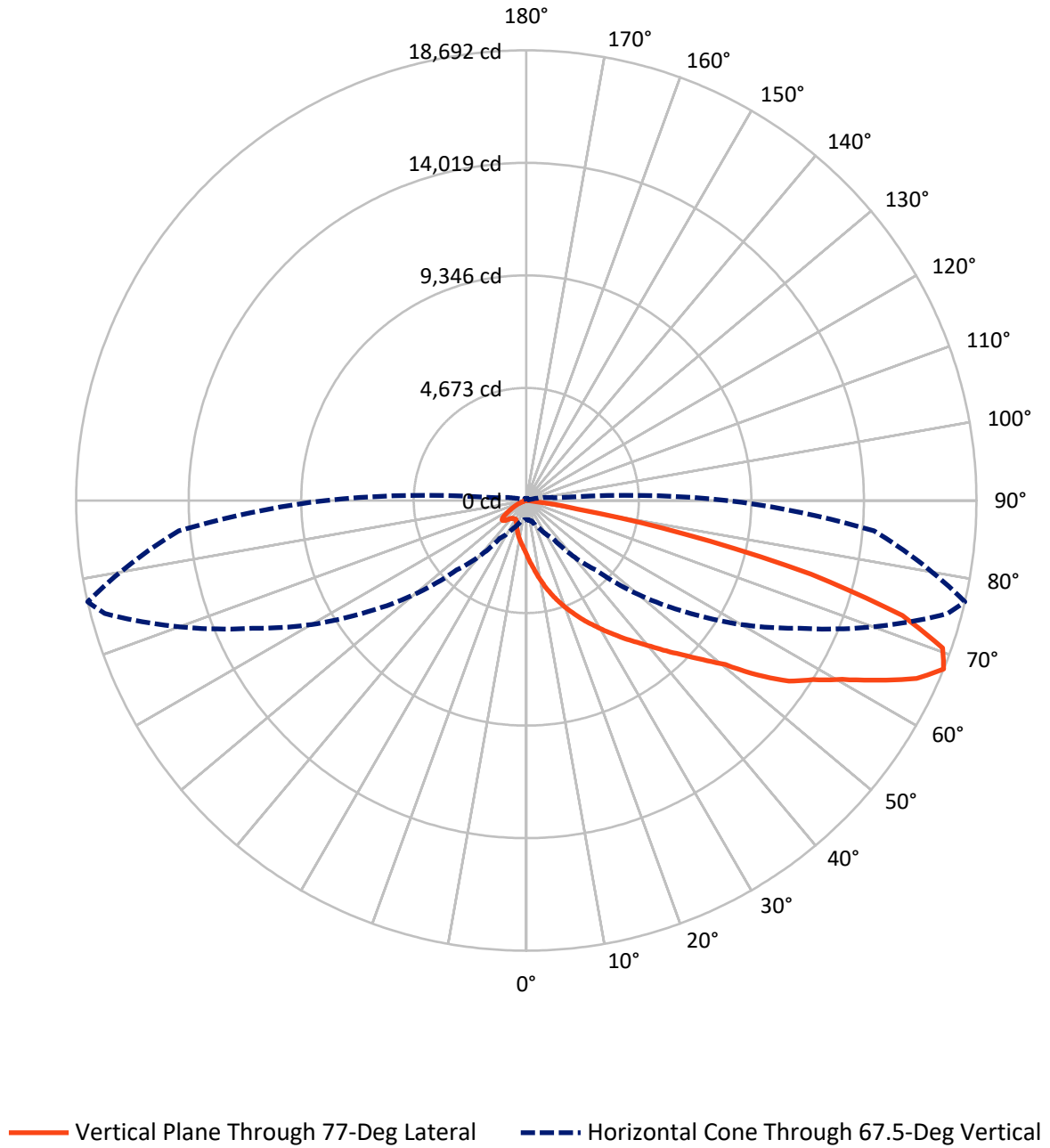
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1434.4	0.0	1434.4
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	18062.6	0.0	18062.6
	% Fixture	92.6	0.0	92.6
Total	Lumens	19497.0	0.0	19497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.5	1.2
10°-20°	803.6	4.1
20°-30°	1550.7	8.0
30°-40°	2692.1	13.8
40°-50°	3908.8	20.0
50°-60°	4488.8	23.0
60°-70°	3897.1	20.0
70°-80°	1835.6	9.4
80°-90°	90.8	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°	19497.0	100.0
0°-180°	19497.0	100.0

Coefficient of Utilization



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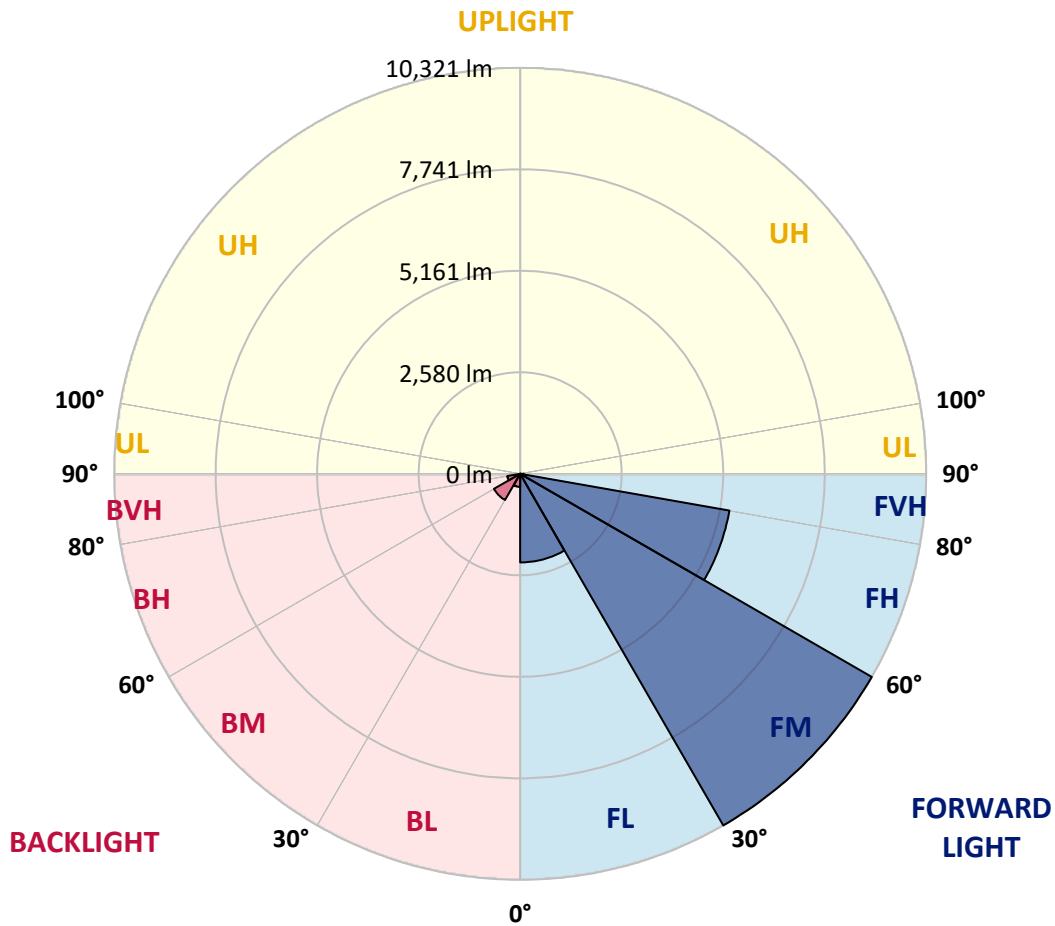
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2251.7	11.5			
FM (30°-60°)	10321.2	52.9			
FH (60°-80°)	5400.6	27.7			G3/7500
FVH (80°-90°)	89.1	0.5			G1/100
BL (0°-30°)	332.1	1.7	B1/500		
BM (30°-60°)	768.6	3.9	B1/1000		
BH (60°-80°)	332.1	1.7	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3
2.5°	3112.7	3132.1	3104.3	3051.0	2971.1	2919.0	2791.9	2672.0	2538.9	2496.5
5°	3794.4	3811.3	3779.8	3721.7	3615.2	3513.5	3346.4	3095.8	2835.5	2751.9
7.5°	4299.2	4308.9	4296.8	4243.5	4141.8	4026.8	3840.4	3543.8	3157.5	3065.5
10°	4662.4	4693.9	4690.3	4669.7	4601.9	4508.7	4310.1	3972.3	3518.3	3399.7
12.5°	4903.4	4938.5	4959.1	5005.1	5001.4	4942.1	4767.8	4410.6	3877.9	3738.7
15°	4973.6	5011.1	5089.8	5196.4	5290.8	5321.1	5198.8	4840.4	4273.8	4095.8
17.5°	4933.6	4991.8	5086.2	5254.5	5461.5	5598.3	5585.0	5255.7	4633.4	4430.0
20°	5022.0	5077.7	5151.6	5293.2	5534.2	5782.4	5881.6	5652.8	4990.6	4777.5
22.5°	5511.2	5501.5	5508.7	5531.7	5675.8	5921.6	6126.2	6013.6	5344.1	5126.2
25°	6286.0	6242.4	6168.6	6043.9	6007.5	6126.2	6339.3	6333.2	5717.0	5483.3
27.5°	7174.7	7167.4	6994.3	6694.0	6524.5	6478.5	6580.2	6644.4	6086.2	5836.8
30°	8025.8	8045.2	7811.5	7477.4	7166.2	6985.8	6893.8	6939.8	6461.6	6218.2
32.5°	8766.8	8787.3	8533.1	8142.0	7757.0	7539.1	7345.4	7231.6	6870.8	6605.6
35°	9392.7	9413.3	9121.5	8689.3	8278.8	8081.5	7862.4	7551.2	7282.4	7035.4
37.5°	9952.0	9946.0	9554.9	9119.1	8715.9	8559.7	8444.7	7944.7	7706.2	7467.7
40°	10282.6	10308.0	9973.8	9493.2	9102.1	8988.3	8981.1	8432.6	8195.3	7964.1
42.5°	10379.4	10424.2	10182.1	9787.4	9432.7	9309.2	9499.2	8960.5	8764.3	8539.1
45°	10205.1	10248.7	10138.5	9864.9	9657.8	9577.9	9944.8	9507.7	9372.1	9149.3
47.5°	9696.6	9751.1	9777.7	9719.6	9717.2	9798.3	10344.3	10084.0	10093.7	9866.1
50°	8712.3	8804.3	9048.9	9254.7	9573.1	9972.6	10733.0	10708.7	10907.3	10711.2
52.5°	6922.8	7053.6	7896.3	8459.2	9174.8	9939.9	11160.3	11711.2	12334.7	12047.8
55°	5563.2	5563.2	6248.5	7301.8	8397.5	9724.4	11346.8	12362.6	13306.9	13239.1
57.5°	4535.3	4589.8	5026.9	5957.9	7272.7	9211.1	11461.8	12771.8	14090.3	14040.6
60°	2799.2	2916.6	3742.3	4661.2	5993.0	8297.0	11389.2	13185.9	15040.7	15080.6
62.5°	1576.3	1619.9	1988.0	3353.7	4660.0	7068.1	10833.4	13417.1	16256.2	16425.7
65°	1088.4	1110.2	1251.9	2087.3	3230.2	5627.4	9747.4	13273.0	17474.2	17816.8
67.5°	790.6	801.5	889.9	1274.9	1916.6	4080.1	8045.2	12546.6	18119.5	18692.2
70°	607.8	615.0	679.2	837.8	1132.0	2518.3	5842.9	11102.2	17652.2	18336.2
72.5°	494.0	501.2	550.9	619.9	750.6	1489.2	3541.3	9016.2	15589.1	16327.7
75°	416.5	426.2	471.0	515.8	588.4	956.5	1661.1	6278.7	11723.3	12207.6
77.5°	231.2	213.1	382.6	427.4	496.4	605.4	777.3	3695.1	6565.7	6700.1
80°	144.1	148.9	303.9	343.8	381.4	305.1	355.9	1422.6	2276.1	2162.3
82.5°	8.5	19.4	233.7	248.2	261.5	130.8	134.4	483.1	548.5	503.7
85°	0.0	0.0	106.5	86.0	90.8	37.5	38.7	112.6	73.9	79.9
87.5°	0.0	0.0	0.0	2.4	0.0	3.6	7.3	9.7	3.6	4.8
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°
2248.3	0°	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3
2363.3	2.5°	2278.6	2193.8	2021.9	1853.6	1716.8	1589.7	1498.9	1412.9	1369.3	1366.9
2515.9	5°	2347.6	2169.6	1825.8	1521.9	1277.3	1081.2	954.0	863.2	817.2	801.5
2703.5	7.5°	2444.4	2176.9	1653.8	1231.3	943.1	774.9	702.2	673.2	663.5	652.6
2915.4	10°	2566.7	2193.8	1500.1	991.6	743.4	658.6	629.6	617.5	610.2	602.9
3153.9	12.5°	2703.5	2209.5	1347.5	823.3	653.8	610.2	589.6	575.1	565.4	556.9
3398.5	15°	2836.7	2219.2	1188.9	705.8	607.8	572.7	550.9	535.1	521.8	512.1
3638.2	17.5°	2968.7	2232.6	1040.0	635.6	570.2	535.1	513.3	494.0	483.1	472.2
3890.0	20°	3115.2	2230.1	899.6	586.0	532.7	497.6	474.6	456.4	445.5	433.4
4156.4	22.5°	3250.8	2218.0	776.1	543.6	494.0	460.1	434.6	416.5	405.6	395.9
4428.8	25°	3406.9	2208.3	673.2	504.9	457.6	423.7	395.9	379.0	366.8	358.4
4702.4	27.5°	3557.1	2193.8	598.1	469.8	422.5	389.8	363.2	343.8	332.9	326.9
4984.5	30°	3704.8	2190.2	570.2	435.9	391.1	358.4	331.7	313.6	305.1	302.7
5294.4	32.5°	3882.8	2199.9	582.4	423.7	362.0	329.3	303.9	290.6	282.1	282.1
5639.5	35°	4072.8	2197.4	600.5	434.6	342.6	300.3	280.9	272.4	263.9	263.9
6022.1	37.5°	4311.3	2201.1	615.0	452.8	335.4	276.0	265.1	254.2	249.4	249.4
6441.0	40°	4667.3	2320.9	607.8	468.5	332.9	259.1	237.3	233.7	230.0	230.0
6914.4	42.5°	5103.1	2581.2	617.5	469.8	331.7	247.0	217.9	225.2	216.7	215.5
7448.3	45°	5580.2	2865.8	679.2	444.3	330.5	240.9	208.2	216.7	203.4	203.4
8067.0	47.5°	6053.6	3147.8	742.2	408.0	326.9	239.7	199.8	194.9	191.3	192.5
8873.3	50°	6706.1	3377.9	766.4	358.4	318.4	237.3	184.0	185.2	182.8	185.2
10010.2	52.5°	7416.8	3426.3	737.3	302.7	294.2	230.0	173.1	178.0	176.8	179.2
10810.4	55°	7859.9	3374.3	609.0	251.8	256.7	201.0	162.2	171.9	171.9	171.9
11592.6	57.5°	8317.6	3152.7	432.2	204.6	213.1	164.7	152.5	165.9	164.7	163.4
12534.5	60°	8646.9	2794.3	284.5	168.3	169.5	135.6	141.7	156.2	155.0	148.9
13505.5	62.5°	8892.7	2398.4	182.8	142.9	129.5	122.3	129.5	141.7	136.8	123.5
14328.8	65°	8864.8	1850.0	140.4	122.3	106.5	106.5	112.6	123.5	109.0	87.2
14486.2	67.5°	8347.9	1251.9	116.2	102.9	89.6	88.4	93.2	102.9	93.2	73.9
13679.8	70°	7424.1	818.4	93.2	79.9	71.4	65.4	75.1	88.4	78.7	59.3
11645.8	72.5°	6025.7	498.8	70.2	58.1	52.1	42.4	59.3	72.6	63.0	43.6
8098.4	75°	3898.5	254.2	48.4	37.5	27.8	25.4	43.6	54.5	43.6	26.6
3593.4	77.5°	1491.6	106.5	26.6	16.9	14.5	12.1	24.2	32.7	18.2	6.1
696.2	80°	286.9	44.8	13.3	8.5	7.3	4.8	3.6	2.4	0.0	0.0
123.5	82.5°	49.6	14.5	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
24.2	85°	16.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.5	87.5°	6.1	0.0	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

180°
2248.3
1364.5
799.1
650.2
600.5
554.5
510.9
471.0
432.2
394.7
357.2
326.9
301.5
282.1
263.9
249.4
230.0
214.3
203.4
192.5
185.2
179.2
171.9
163.4
148.9
121.1
84.7
71.4
56.9
41.2
23.0
4.8
0.0
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