

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: P941164

Luminaire Tested: **GALN-SB4C-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19059 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

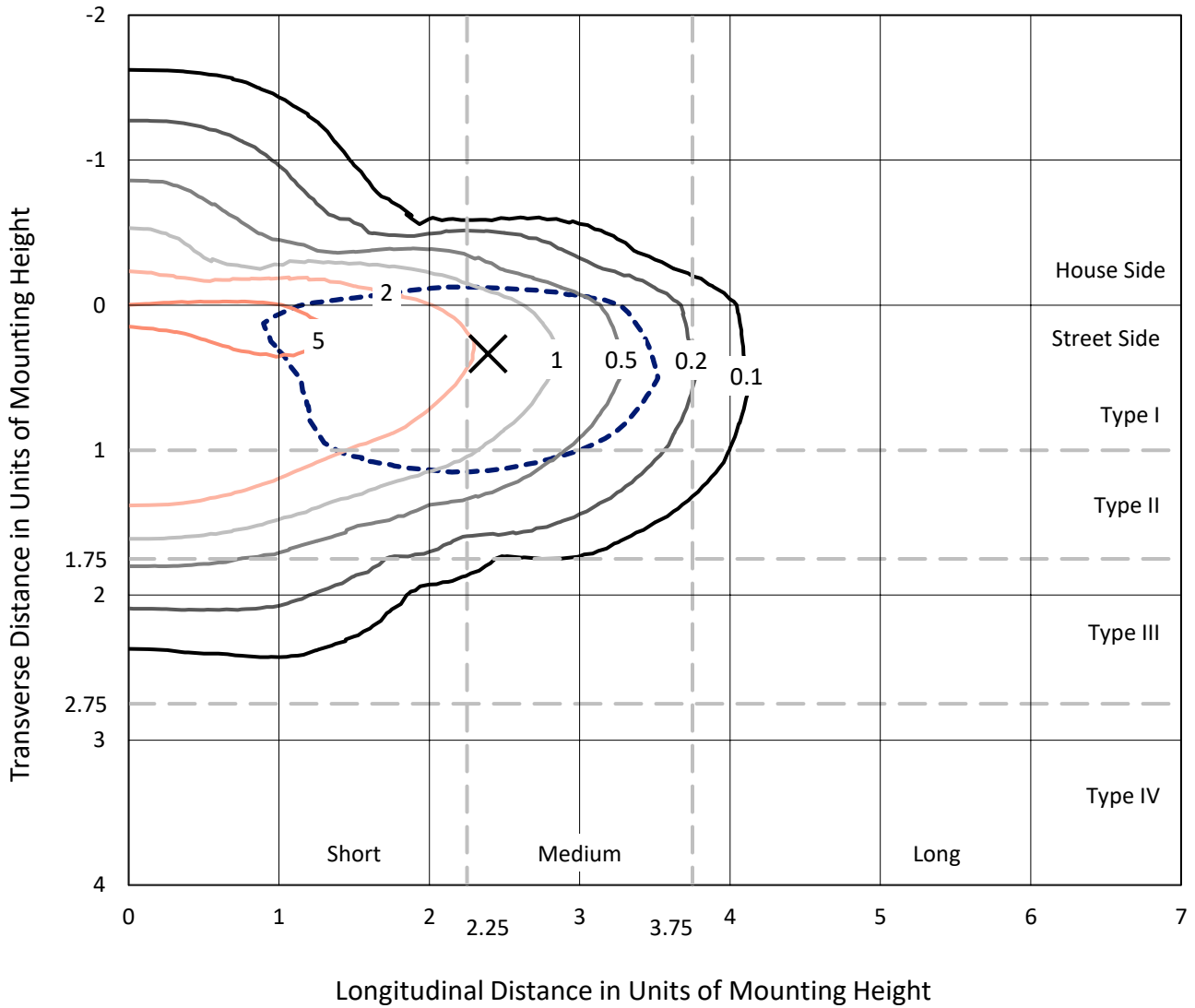
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

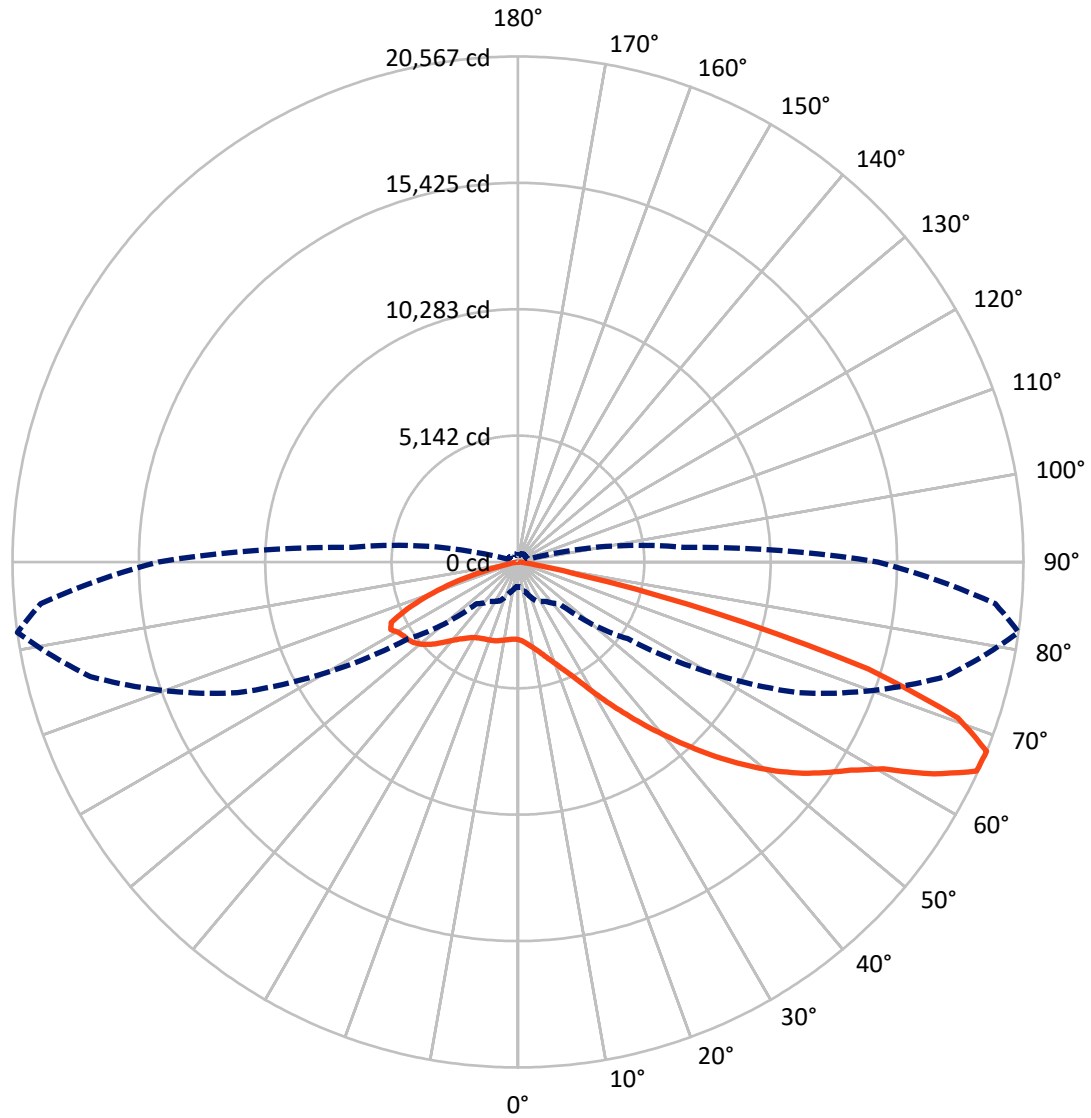
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3452.4	0.0	3452.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	15606.6	0.0	15606.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	19059.0	0.0	19059.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.3	1.5
10°-20°	731.0	3.8
20°-30°	1170.8	6.1
30°-40°	2070.4	10.9
40°-50°	3627.5	19.0
50°-60°	4838.1	25.4
60°-70°	4504.0	23.6
70°-80°	1728.6	9.1
80°-90°	107.4	0.6
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°	19059.0	100.0
0°-180°	19059.0	100.0



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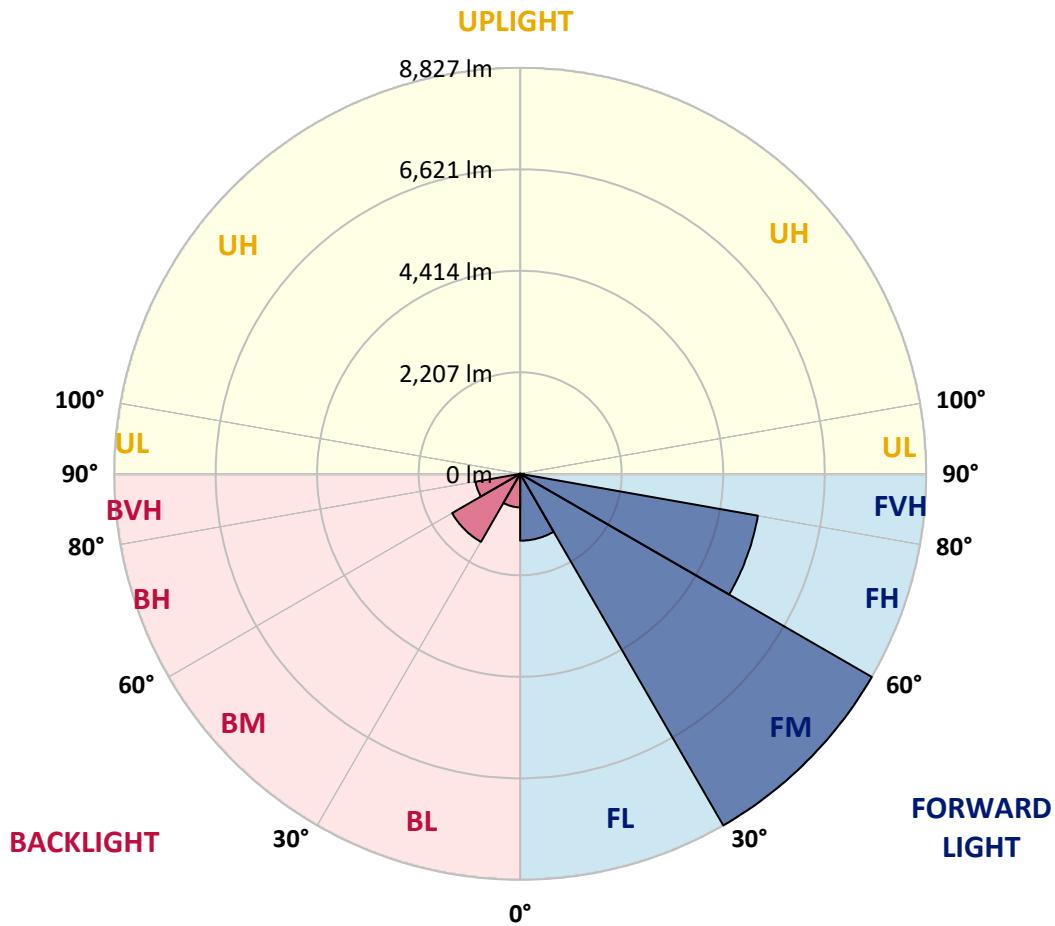
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1454.0	7.6			
FM (30°-60°)	8827.4	46.3			
FH (60°-80°)	5247.2	27.5			G3/7500
FVH (80°-90°)	78.1	0.4			G1/100
BL (0°-30°)	729.1	3.8	B2/1000		
BM (30°-60°)	1708.6	9.0	B2/2500		
BH (60°-80°)	985.4	5.2	B2/1000		G2/1000
BVH (80°-90°)	29.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3157.4	3157.4	3157.4	3157.4	3157.4	3157.4	3157.4	3157.4	3157.4	3157.4
2.5°	3337.2	3356.4	3345.4	3339.9	3330.3	3316.6	3305.6	3271.3	3235.6	3212.3
5°	3404.4	3423.6	3422.3	3427.8	3434.6	3438.7	3436.0	3397.6	3346.8	3307.0
7.5°	3346.8	3368.8	3386.6	3414.0	3462.1	3512.8	3537.5	3529.3	3477.2	3422.3
10°	3183.5	3206.8	3249.4	3313.9	3415.4	3525.2	3617.1	3659.7	3626.7	3566.3
12.5°	2884.4	2907.7	2991.4	3131.4	3301.5	3492.2	3667.9	3781.8	3790.0	3729.6
15°	2548.2	2571.5	2660.7	2836.3	3095.7	3401.7	3695.3	3910.8	3983.5	3931.4
17.5°	2339.6	2360.2	2427.4	2568.8	2839.1	3220.6	3685.7	4048.0	4214.0	4172.9
20°	2276.5	2294.3	2325.9	2424.7	2649.7	3032.6	3622.6	4177.0	4462.4	4439.1
22.5°	2343.7	2360.2	2369.8	2413.7	2555.0	2909.1	3543.0	4308.7	4750.6	4753.3
25°	2498.8	2515.2	2504.3	2531.7	2593.5	2870.6	3512.8	4463.8	5112.8	5143.0
27.5°	2754.0	2755.4	2729.3	2727.9	2737.5	2928.3	3544.4	4629.8	5569.8	5626.0
30°	3265.8	3245.3	3145.1	3036.7	2987.3	3101.2	3632.2	4826.0	6109.0	6209.2
32.5°	4054.8	4024.7	3840.8	3581.4	3320.7	3379.7	3790.0	5049.7	6696.3	6877.5
35°	4911.1	4902.9	4710.8	4325.2	3869.6	3776.3	4046.6	5343.3	7337.2	7625.3
37.5°	5707.0	5702.9	5593.1	5138.9	4584.5	4329.3	4458.3	5727.6	8023.3	8440.4
40°	6434.2	6446.6	6336.8	5930.6	5372.2	5038.7	5018.1	6202.3	8786.2	9328.2
42.5°	7062.7	7076.4	6965.3	6664.8	6150.2	5823.6	5705.6	6784.2	9531.3	10281.9
45°	7489.5	7574.5	7558.1	7317.9	6948.8	6609.9	6531.7	7514.2	10380.7	11293.2
47.5°	7610.2	7688.4	7811.9	7844.9	7619.8	7286.4	7379.7	8393.7	11239.7	12305.9
50°	7312.5	7385.2	7641.8	7983.5	8139.9	8037.0	8204.4	9336.4	12119.3	13315.8
52.5°	6725.2	6799.2	7123.1	7663.7	8301.8	8625.6	9031.8	10265.4	12971.4	14272.2
55°	5875.8	5954.0	6369.8	6981.8	7993.1	8868.5	9722.0	11193.0	13752.2	15132.6
57.5°	4720.4	4778.0	5210.2	6066.5	7216.4	8627.0	10231.1	12205.7	14487.7	15977.9
60°	3076.5	3127.2	3629.5	4584.5	5929.3	7820.2	10332.7	13335.0	15464.7	17077.0
62.5°	2045.9	2080.3	2378.0	3079.2	4175.6	6271.0	9738.5	14236.6	16897.3	18989.9
65°	1403.8	1438.1	1735.8	2224.3	2697.7	4148.2	8030.1	14117.2	18195.4	20508.9
67.5°	1001.7	1030.5	1283.0	1744.1	1952.6	2409.6	5443.5	12591.3	18008.7	20566.5
70°	717.7	734.1	942.7	1358.5	1552.0	1447.7	3027.1	9630.1	15767.9	18991.2
72.5°	502.2	507.7	654.5	1034.6	1250.1	1056.6	1440.8	6420.5	11925.8	14906.2
75°	340.3	347.2	440.5	758.8	1003.1	806.9	762.9	3442.8	7001.0	8251.0
77.5°	208.6	211.3	284.0	518.7	750.6	614.7	491.2	1458.6	2708.7	2659.3
80°	118.0	118.0	181.1	322.5	511.8	396.6	344.4	620.2	857.6	753.3
82.5°	65.9	67.2	131.7	200.3	338.9	234.6	189.4	286.8	370.5	328.0
85°	27.4	30.2	81.0	94.7	161.9	116.6	76.8	120.8	137.2	122.1
87.5°	2.7	4.1	24.7	17.8	19.2	23.3	11.0	23.3	19.2	19.2
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°
3157.4	0°	3157.4	3157.4	3157.4	3157.4	3157.4	3157.4	3157.4	3157.4	3157.4	3157.4
3204.1	2.5°	3178.0	3157.4	3105.3	3044.9	2965.3	2926.9	2874.8	2839.1	2808.9	2811.6
3283.7	5°	3239.8	3187.6	3071.0	2925.5	2744.4	2615.4	2478.2	2383.5	2306.7	2290.2
3393.4	7.5°	3324.8	3242.5	3038.0	2776.0	2470.0	2238.1	2030.9	1897.8	1803.1	1772.9
3526.6	10°	3434.6	3315.2	2995.5	2588.0	2147.5	1852.5	1630.2	1525.9	1461.4	1439.4
3683.0	12.5°	3562.2	3398.9	2939.3	2358.8	1815.4	1531.4	1390.0	1337.9	1317.3	1310.5
3875.1	15°	3722.8	3503.2	2854.2	2087.1	1534.1	1335.2	1274.8	1267.9	1270.7	1267.9
4105.6	17.5°	3913.5	3617.1	2715.6	1807.2	1344.8	1235.0	1213.0	1218.5	1225.4	1224.0
4363.6	20°	4122.1	3729.6	2538.6	1558.8	1215.8	1163.6	1151.3	1156.8	1162.3	1159.5
4661.4	22.5°	4359.5	3850.4	2342.3	1365.3	1129.3	1097.8	1084.0	1085.4	1085.4	1079.9
5038.7	25°	4643.5	3983.5	2136.5	1228.1	1063.5	1038.8	1022.3	1016.8	1008.6	992.1
5497.0	27.5°	4982.5	4124.8	1938.9	1132.1	1011.3	988.0	968.8	955.1	934.5	907.0
6047.3	30°	5363.9	4296.4	1771.5	1071.7	970.1	946.8	924.9	904.3	874.1	839.8
6679.9	32.5°	5812.6	4480.2	1649.4	1031.9	933.1	908.4	882.3	857.6	824.7	790.4
7390.7	35°	6347.8	4702.5	1578.0	1004.5	904.3	871.3	842.5	815.1	790.4	760.2
8163.2	37.5°	6928.2	4938.5	1556.1	990.7	885.1	834.3	801.4	782.2	779.4	761.6
8998.9	40°	7563.6	5218.5	1572.5	982.5	864.5	798.6	762.9	758.8	765.7	734.1
9892.2	42.5°	8235.9	5550.5	1600.0	972.9	835.7	762.9	728.6	728.6	723.1	679.2
10836.3	45°	8963.2	5933.4	1627.4	949.6	801.4	727.3	701.2	691.6	668.3	625.7
11785.8	47.5°	9696.0	6323.1	1648.0	907.0	760.2	697.1	673.8	651.8	617.5	579.1
12717.5	50°	10391.7	6673.0	1626.1	843.9	713.5	668.3	643.6	613.4	576.3	550.3
13599.9	52.5°	11013.3	6976.3	1532.7	769.8	664.1	638.1	616.1	584.6	554.4	526.9
14395.7	55°	11553.9	7221.9	1368.1	699.8	620.2	612.0	590.0	550.3	509.1	485.8
15184.8	57.5°	12072.6	7408.5	1162.3	642.2	580.4	583.2	550.3	514.6	476.2	451.5
16248.2	60°	12762.8	7658.2	953.7	588.7	537.9	546.1	510.5	484.4	436.4	404.8
18071.9	62.5°	13866.1	8046.6	757.5	522.8	488.5	491.2	476.2	444.6	387.0	349.9
19423.5	65°	14741.5	7903.9	596.9	451.5	432.2	436.4	436.4	402.1	340.3	297.8
19496.2	67.5°	14642.7	6767.7	476.2	381.5	378.7	381.5	391.1	362.3	301.9	267.6
18011.5	70°	13488.7	5383.1	381.5	317.0	329.3	322.5	349.9	330.7	271.7	237.4
13963.5	72.5°	11006.4	3877.8	290.9	262.1	252.5	263.5	315.6	297.8	226.4	188.0
7396.2	75°	6431.5	2069.3	216.8	207.2	182.5	219.6	279.9	253.9	172.9	138.6
2266.9	77.5°	2094.0	721.8	159.2	152.3	135.8	177.0	238.8	214.1	141.3	109.8
664.1	80°	561.2	218.2	108.4	100.2	87.8	131.7	189.4	170.2	101.5	71.4
285.4	82.5°	225.0	91.9	63.1	56.3	48.0	90.6	149.6	137.2	75.5	45.3
89.2	85°	72.7	30.2	23.3	17.8	22.0	56.3	89.2	93.3	53.5	23.3
13.7	87.5°	9.6	4.1	4.1	5.5	4.1	9.6	27.4	26.1	15.1	2.7
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>
3157.4
2784.2
2253.2
1742.7
1423.0
1306.3
1266.5
1221.3
1158.1
1077.2
989.4
904.3
837.0
791.8
757.5
760.2
735.5
679.2
624.4
577.7
546.1
524.2
483.0
448.7
400.7
347.2
293.7
262.1
233.3
183.9
134.5
105.7
70.0
45.3
17.8
0.0
0.0

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