

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: P951127

Luminaire Tested: **GALN-SB5B-840-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-840-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27932 lumens
Efficiency: N/A
Efficacy: 152.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

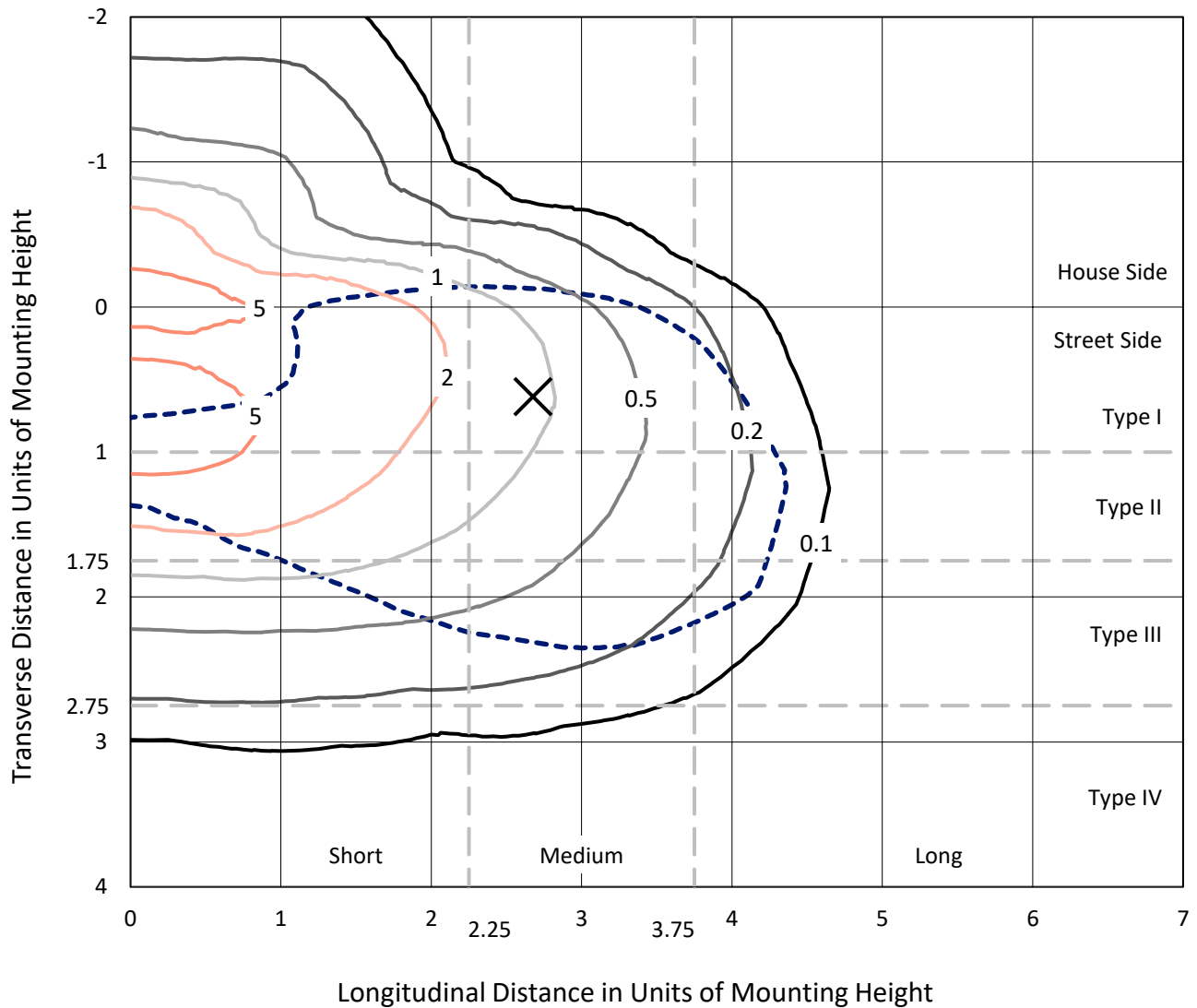
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

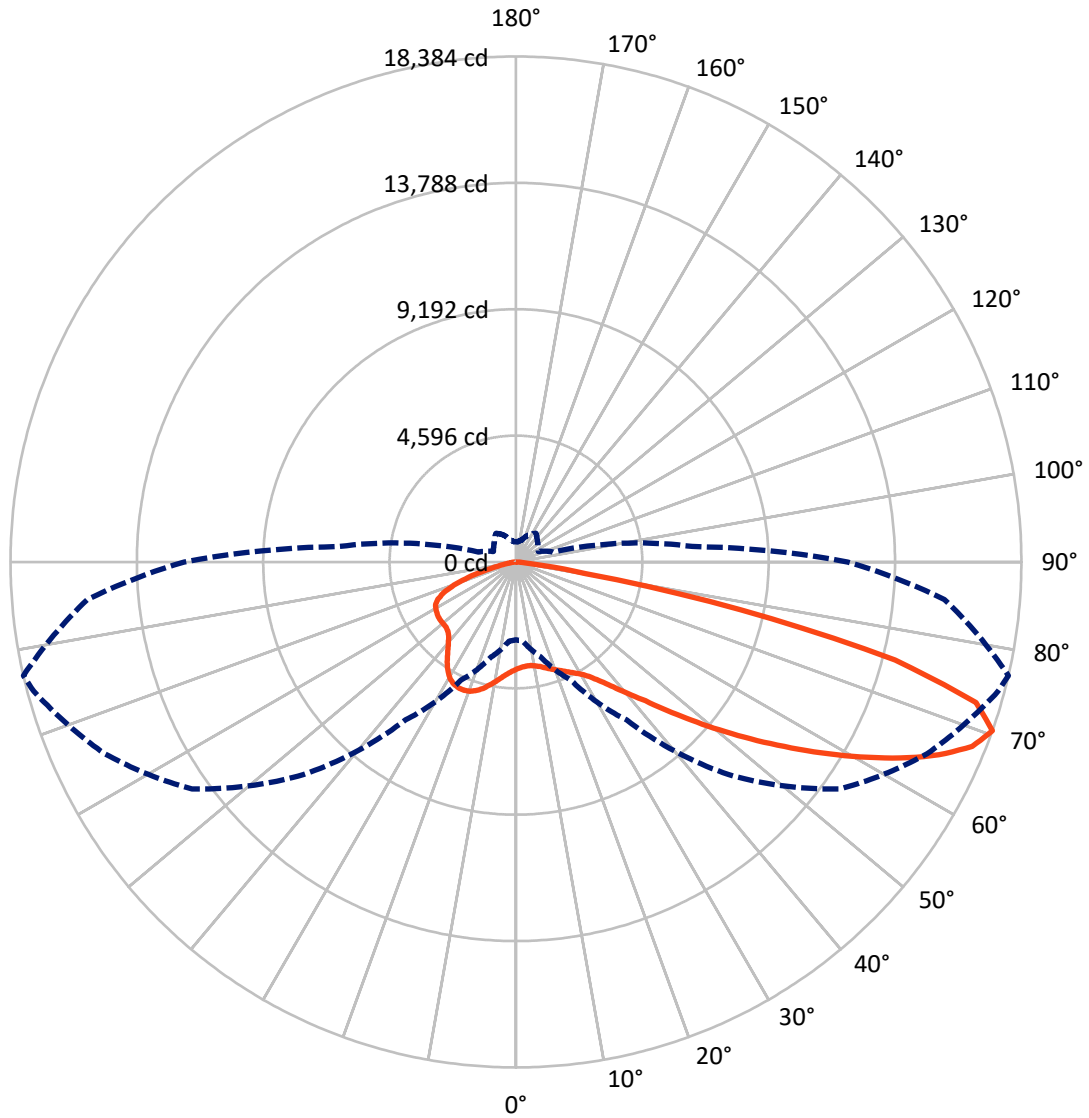
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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
House Side	Lumens	6116.7	0.0	6116.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	21815.3	0.0	21815.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	27932.0	0.0	27932.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.6	1.3
10°-20°	1072.6	3.8
20°-30°	1834.3	6.6
30°-40°	2949.8	10.6
40°-50°	4605.4	16.5
50°-60°	6151.7	22.0
60°-70°	6556.7	23.5
70°-80°	4036.3	14.5
80°-90°	353.7	1.3
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°	27932.0	100.0
0°-180°	27932.0	100.0



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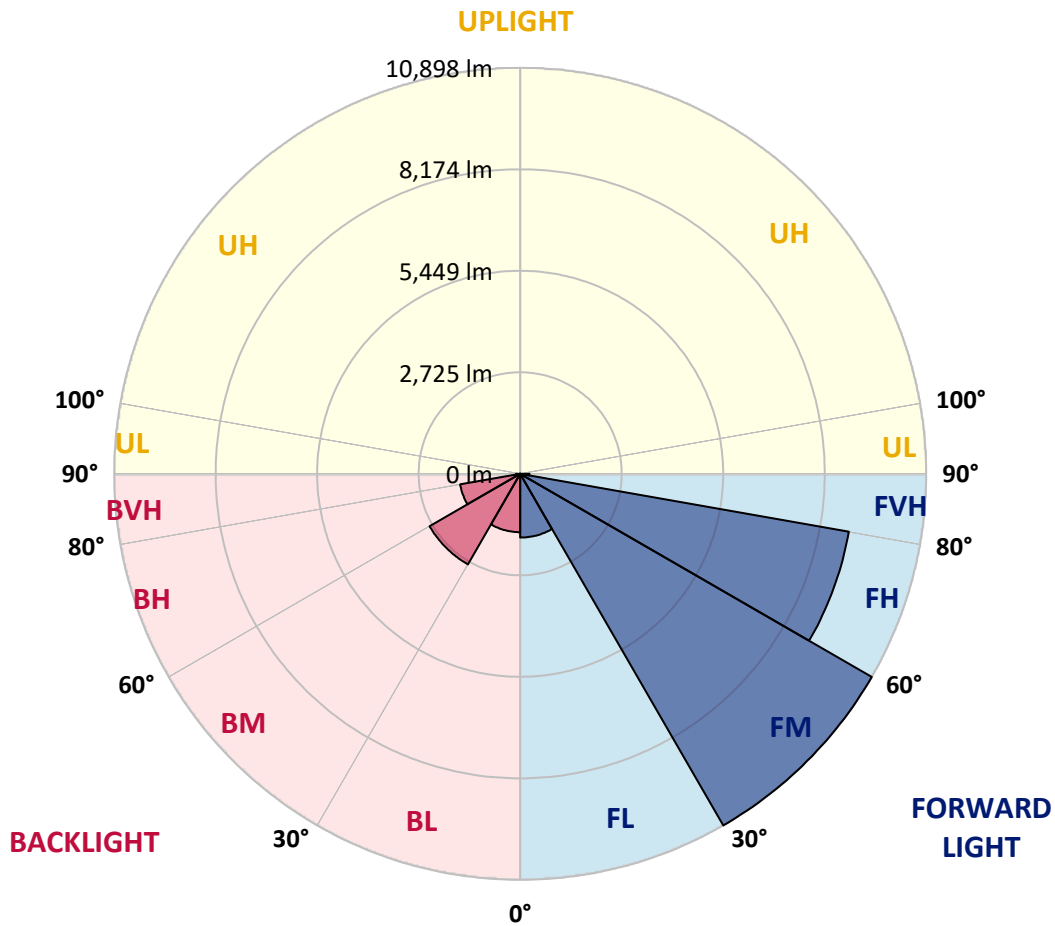
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1711.3	6.1			
FM (30°-60°)	10898.5	39.0			
FH (60°-80°)	8958.3	32.1			G4/12000
FVH (80°-90°)	247.3	0.9			G3/500
BL (0°-30°)	1567.3	5.6	B3/2500		
BM (30°-60°)	2808.3	10.1	B3/5000		
BH (60°-80°)	1634.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	106.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3896.8	3896.8	3896.8	3896.8	3896.8	3896.8	3896.8	3896.8	3896.8	3896.8
2.5°	3592.1	3590.6	3609.2	3615.0	3649.3	3673.6	3719.4	3768.0	3831.0	3838.1
5°	3384.6	3384.6	3406.1	3429.0	3473.3	3522.0	3592.1	3676.5	3785.2	3802.4
7.5°	3208.7	3220.1	3238.7	3283.1	3334.6	3404.7	3512.0	3632.1	3775.2	3802.4
10°	3067.1	3079.9	3102.8	3138.6	3215.8	3313.1	3453.3	3607.8	3799.5	3842.4
12.5°	3022.7	3035.6	3048.5	3075.6	3147.2	3261.6	3429.0	3619.2	3858.1	3901.1
15°	3125.7	3141.4	3131.4	3124.3	3161.5	3265.9	3440.4	3660.7	3931.1	3992.6
17.5°	3363.2	3368.9	3346.0	3278.8	3273.1	3328.8	3494.8	3718.0	4022.7	4089.9
20°	3746.6	3736.5	3689.3	3556.3	3480.5	3469.0	3587.8	3803.8	4117.1	4188.6
22.5°	4267.3	4255.8	4161.4	3951.1	3782.3	3670.7	3722.2	3915.4	4222.9	4303.0
25°	4916.7	4901.0	4762.2	4476.1	4214.3	3938.3	3905.4	4062.7	4353.1	4427.5
27.5°	5674.9	5662.0	5511.8	5134.2	4756.5	4304.5	4132.8	4235.8	4489.0	4573.4
30°	6490.3	6527.5	6261.4	5855.2	5377.4	4782.3	4438.9	4449.0	4665.0	4740.8
32.5°	7448.8	7513.2	7192.7	6677.7	6025.4	5301.6	4825.2	4746.5	4921.0	4984.0
35°	8398.7	8471.6	8205.5	7636.2	6885.1	5913.8	5228.6	5088.4	5261.5	5330.2
37.5°	9219.8	9317.1	9179.7	8684.8	7805.0	6652.0	5755.0	5490.4	5680.6	5766.5
40°	9867.8	10016.6	10006.6	9697.6	8889.3	7547.5	6423.1	5986.8	6201.4	6294.3
42.5°	10394.2	10523.0	10634.6	10618.8	10020.9	8564.6	7208.5	6631.9	6795.0	6902.3
45°	10757.6	10894.9	11135.3	11394.2	11109.5	9653.2	8108.3	7397.3	7546.1	7707.7
47.5°	11082.3	11238.3	11550.1	11960.7	12033.6	10746.2	9093.9	8288.5	8424.4	8591.8
50°	11110.9	11245.4	11728.9	12311.2	12690.2	11796.2	10152.5	9288.4	9415.8	9594.6
52.5°	10420.0	10631.7	11475.7	12301.1	12992.1	12674.5	11203.9	10328.4	10471.5	10686.1
55°	8088.2	8398.7	10733.3	11917.8	12884.8	13242.4	12203.9	11434.2	11617.3	11841.9
57.5°	6966.7	7102.6	8520.2	11219.7	12395.6	13389.8	13047.9	12551.5	12846.2	13092.2
60°	6261.4	6374.5	7212.7	10133.9	11751.8	13156.6	13700.2	13592.9	14102.2	14395.4
62.5°	5506.1	5613.4	6375.9	8461.6	10927.8	12768.9	14112.2	14554.2	15389.7	15710.1
65°	4756.5	4848.1	5579.1	7109.7	9880.7	12381.3	14325.3	15385.4	16581.3	16913.2
67.5°	3921.1	3996.9	4687.9	5998.2	8607.5	11850.5	14431.2	16039.1	17618.4	17903.1
70°	2829.6	2888.2	3602.1	4743.6	7009.6	10937.8	14388.3	16502.6	18156.3	18383.8
72.5°	1337.5	1390.5	2228.8	3079.9	4951.1	9161.1	13520.0	16135.0	17609.8	17496.8
75°	713.8	759.6	1280.3	1689.5	2615.0	6280.0	11063.7	13899.0	14787.4	14238.1
77.5°	483.5	519.3	792.5	1014.2	1194.5	2981.2	7111.2	9623.2	9258.4	8351.4
80°	383.4	420.6	649.5	686.7	577.9	1077.2	2938.3	4454.7	3200.1	2559.2
82.5°	294.7	336.2	546.5	497.8	314.7	442.0	855.5	1409.1	819.7	623.7
85°	180.2	224.6	429.2	317.6	177.4	201.7	290.4	392.0	250.3	208.9
87.5°	91.6	128.7	217.4	115.9	80.1	47.2	77.2	77.2	65.8	57.2
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°
3896.8	0°	3896.8	3896.8	3896.8	3896.8	3896.8	3896.8	3896.8	3896.8	3896.8	3896.8
3876.7	2.5°	3911.1	3939.7	3988.3	4034.1	4069.9	4104.2	4138.5	4157.1	4162.8	4185.7
3898.2	5°	3956.9	4009.8	4104.2	4192.9	4248.7	4283.0	4307.3	4321.6	4324.5	4331.7
3956.9	7.5°	4041.3	4125.7	4257.3	4346.0	4387.4	4384.6	4374.6	4338.8	4324.5	4311.6
4042.7	10°	4160.0	4271.6	4433.2	4494.7	4469.0	4400.3	4311.6	4207.2	4158.6	4111.3
4160.0	12.5°	4307.3	4449.0	4607.7	4604.9	4477.6	4301.6	4095.6	3935.4	3833.8	3760.9
4304.5	15°	4486.1	4649.2	4770.8	4673.5	4394.6	4078.4	3776.6	3567.7	3476.2	3396.1
4450.4	17.5°	4670.7	4845.2	4901.0	4652.1	4185.7	3748.0	3406.1	3241.6	3151.5	3108.5
4607.7	20°	4850.9	5024.0	4978.3	4529.1	3868.2	3373.2	3068.5	2978.4	2959.8	2969.8
4760.8	22.5°	5041.2	5195.7	4994.0	4291.6	3463.3	2989.8	2822.4	2825.3	2866.8	2896.8
4921.0	25°	5235.7	5340.2	4952.5	3948.3	3028.4	2708.0	2666.5	2712.3	2793.8	2852.5
5101.3	27.5°	5423.1	5468.9	4862.4	3523.4	2655.1	2506.3	2513.4	2607.9	2730.9	2812.4
5320.1	30°	5634.9	5583.4	4689.3	3045.6	2396.1	2333.2	2393.3	2503.4	2626.5	2699.4
5596.2	32.5°	5873.8	5682.1	4414.6	2603.6	2213.0	2194.4	2293.1	2364.7	2419.0	2440.5
5962.5	35°	6171.3	5820.8	4062.7	2293.1	2048.5	2092.9	2187.3	2151.5	2130.1	2118.6
6454.6	37.5°	6557.6	6008.2	3650.7	2091.4	1915.5	2019.9	2058.5	1947.0	1862.6	1821.1
7051.1	40°	7022.5	6282.9	3254.5	1935.5	1831.1	1957.0	1889.7	1755.3	1648.0	1589.3
7722.0	42.5°	7538.9	6570.4	2921.1	1818.2	1783.9	1905.5	1765.3	1605.1	1432.0	1413.4
8521.7	45°	8081.1	6866.6	2693.7	1728.1	1761.0	1861.1	1693.7	1434.8	1311.8	1387.6
9324.2	47.5°	8623.2	7138.4	2556.4	1660.8	1749.5	1811.1	1630.8	1340.4	1253.1	1363.3
10184.0	50°	9226.9	7381.5	2494.8	1612.2	1736.7	1791.0	1536.4	1316.1	1191.6	1264.6
11073.7	52.5°	9826.3	7570.4	2449.1	1563.6	1718.1	1775.3	1490.6	1287.5	1117.2	1121.5
11969.3	55°	10424.3	7693.4	2399.0	1499.2	1676.6	1741.0	1486.3	1256.0	1061.5	1041.4
12916.3	57.5°	11062.3	7763.5	2337.5	1427.7	1605.1	1653.7	1482.0	1231.7	1044.3	1011.4
13884.7	60°	11711.8	7866.5	2257.4	1340.4	1509.2	1549.3	1472.0	1223.1	1034.3	978.5
14797.4	62.5°	12294.0	7902.3	2161.5	1257.4	1386.2	1446.3	1450.6	1216.0	1007.1	911.2
15555.6	65°	12675.9	7747.8	1994.2	1163.0	1253.1	1340.4	1409.1	1191.6	958.5	862.6
15930.4	67.5°	12660.2	7307.2	1732.4	1041.4	1124.4	1223.1	1349.0	1150.1	899.8	802.5
15647.2	70°	12070.8	6437.4	1400.5	899.8	982.8	1097.2	1271.7	1088.6	829.7	736.7
13913.4	72.5°	10352.8	5038.3	1017.1	733.9	818.3	967.0	1171.6	1014.2	758.2	678.1
10282.7	75°	7395.8	3188.7	689.5	563.6	636.6	819.7	1047.1	927.0	692.4	680.9
5149.9	77.5°	3778.0	1523.5	456.3	412.0	443.5	646.6	879.8	828.3	702.4	562.2
1464.9	80°	1228.8	562.2	287.5	280.4	294.7	430.6	680.9	679.5	532.2	382.0
354.8	82.5°	392.0	241.8	187.4	180.2	173.1	270.4	474.9	537.9	359.1	241.8
127.3	85°	155.9	144.5	110.2	101.6	73.0	127.3	248.9	357.6	267.5	174.5
32.9	87.5°	57.2	57.2	30.0	21.5	15.7	42.9	67.2	107.3	153.1	90.1
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>
3896.8
4198.6
4343.1
4314.5
4097.0
3743.7
3387.5
3121.4
2965.5
2904.0
2868.2
2832.5
2716.6
2451.9
2130.1
1831.1
1593.6
1432.0
1427.7
1414.8
1319.0
1151.6
1055.7
1015.7
982.8
911.2
862.6
806.8
745.3
673.8
642.3
500.7
337.6
240.3
178.8
88.7
0.0

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