

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: P943016

Luminaire Tested: **GALN-SB7B-750-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-750-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33228 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

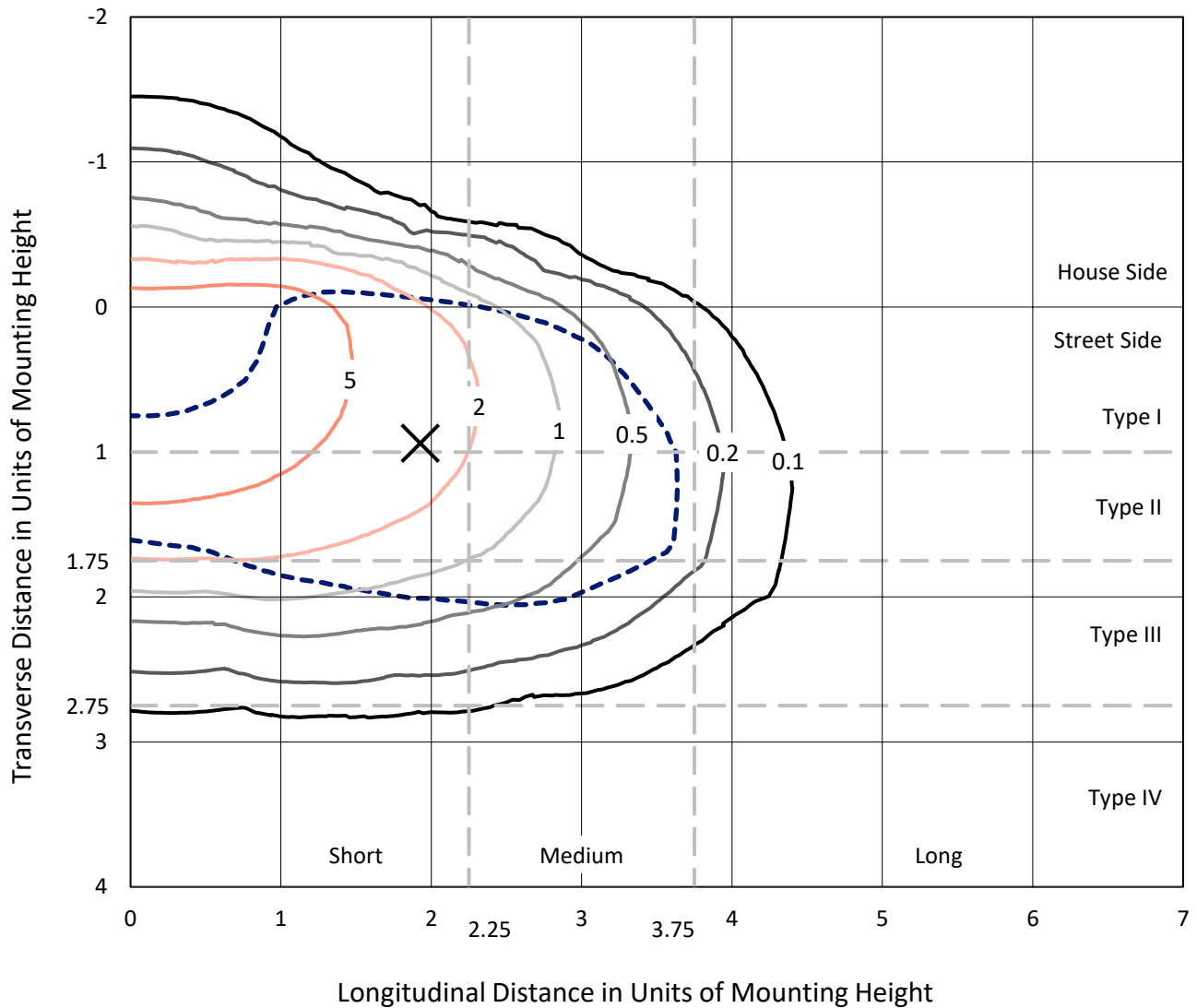
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

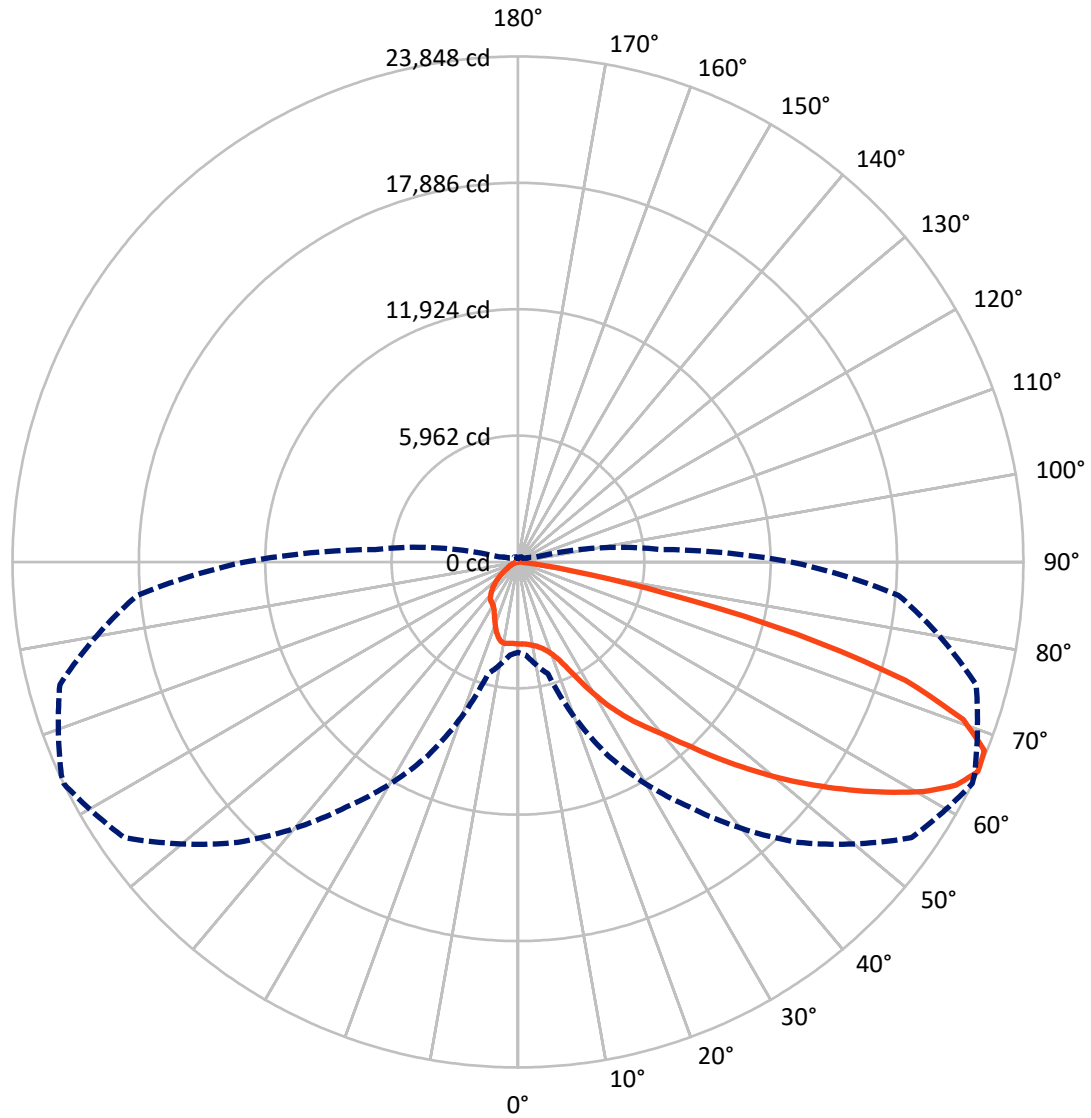
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4443.6	0.0	4443.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	28784.4	0.0	28784.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	33228.0	0.0	33228.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.6	1.1
10°-20°	967.1	2.9
20°-30°	1832.6	5.5
30°-40°	3708.3	11.2
40°-50°	6317.1	19.0
50°-60°	8590.7	25.9
60°-70°	8067.1	24.3
70°-80°	3232.0	9.7
80°-90°	156.6	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°	33228.0	100.0
0°-180°	33228.0	100.0

Coefficient of Utilization



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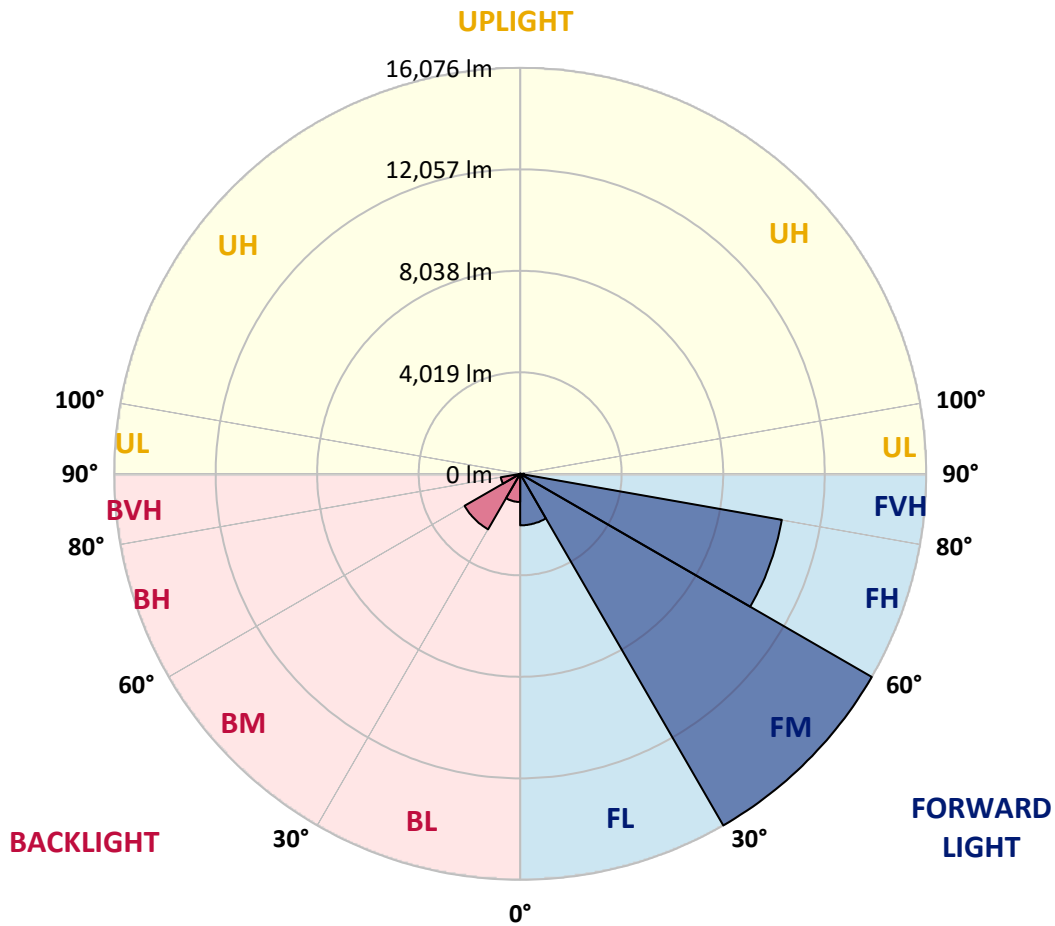
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2040.6	6.1			
FM (30°-60°)	16075.7	48.4			
FH (60°-80°)	10519.2	31.7			G4/12000
FVH (80°-90°)	148.9	0.4			G2/225
BL (0°-30°)	1115.7	3.4	B3/2500		
BM (30°-60°)	2540.4	7.6	B3/5000		
BH (60°-80°)	779.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.6	0.0			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3864.8	3864.8	3864.8	3864.8	3864.8	3864.8	3864.8	3864.8	3864.8	3864.8
2.5°	3851.4	3878.1	3871.4	3864.8	3862.5	3867.0	3869.2	3867.0	3867.0	3867.0
5°	3777.9	3800.2	3800.2	3815.8	3838.0	3864.8	3884.8	3889.3	3893.7	3900.4
7.5°	3637.6	3655.4	3668.7	3720.0	3775.7	3846.9	3907.1	3938.3	3942.7	3967.2
10°	3541.8	3564.0	3586.3	3639.8	3720.0	3826.9	3929.4	4005.1	4016.2	4074.1
12.5°	3537.3	3559.6	3588.5	3646.5	3740.0	3853.6	3978.4	4087.5	4107.6	4192.2
15°	3584.1	3610.8	3637.6	3708.8	3809.1	3947.2	4080.8	4216.7	4236.8	4357.0
17.5°	3679.9	3715.5	3735.6	3806.8	3913.8	4067.5	4243.4	4399.4	4417.2	4557.5
20°	3869.2	3911.5	3918.2	3976.1	4080.8	4245.7	4455.1	4648.9	4671.1	4831.5
22.5°	4261.3	4321.4	4267.9	4296.9	4390.5	4555.3	4782.5	5027.5	5058.7	5241.4
25°	4951.8	5036.4	4898.3	4849.3	4889.4	5060.9	5346.1	5655.7	5691.3	5838.4
27.5°	6308.4	6199.2	5989.8	5784.9	5664.6	5762.6	6083.4	6466.5	6511.1	6653.6
30°	7798.6	7702.8	7419.9	6965.5	6680.4	6664.8	6961.0	7388.7	7439.9	7575.8
32.5°	9291.0	9199.7	8892.3	8333.2	7838.7	7593.6	7798.6	8273.0	8299.8	8386.6
35°	10759.0	10665.4	10358.0	9785.5	9177.4	8620.5	8580.4	9115.0	9124.0	9215.3
37.5°	12235.8	12157.8	11830.4	11269.1	10669.9	9901.4	9529.4	9912.5	9923.6	10012.7
40°	13289.4	13322.8	13097.9	12663.5	12148.9	11309.2	10594.1	10761.2	10694.4	10843.6
42.5°	14193.8	14260.6	14064.6	13846.3	13547.8	12808.3	11912.8	11883.9	11776.9	11857.1
45°	14975.7	15031.4	14855.4	14804.2	14797.5	14278.5	13354.0	13180.3	13031.0	13015.4
47.5°	15263.0	15369.9	15445.7	15617.2	15951.3	15733.0	14844.2	14574.7	14407.7	14285.1
50°	15372.2	15485.8	15744.2	16243.1	17033.9	17127.5	16327.8	16024.8	15819.9	15597.2
52.5°	15225.2	15427.9	15775.4	16615.1	17762.3	18245.7	17751.2	17486.1	17252.2	16889.1
55°	14358.6	14561.4	15271.9	16610.7	18125.4	19029.8	19096.6	18978.5	18715.7	18143.2
57.5°	12532.1	12832.8	13957.7	16044.9	18118.7	19704.7	20415.3	20499.9	20205.9	19386.2
60°	10001.6	10409.2	11781.4	14790.8	17559.6	20070.0	21571.4	21994.6	21682.8	20611.3
62.5°	6978.8	7451.1	8749.7	12826.1	16281.0	19807.2	22415.6	23197.5	22961.4	21707.3
65°	4256.8	4408.3	5455.2	10092.9	14106.9	18706.8	22676.2	23847.9	23770.0	22377.7
67.5°	2835.6	2962.6	3263.3	6920.9	10950.5	16508.2	22052.5	23734.3	23756.6	22268.6
70°	1708.5	1817.7	2013.7	4025.1	7096.9	13066.7	20121.3	22286.4	22415.6	20809.6
72.5°	703.9	777.4	955.6	1824.3	3675.4	8293.1	16022.6	19134.5	19435.2	17497.2
75°	398.7	436.6	561.3	915.5	1594.9	3864.8	9705.3	13583.5	14026.7	12059.8
77.5°	265.1	282.9	363.1	592.5	897.7	1318.7	4147.7	7076.9	7923.3	6586.8
80°	178.2	193.8	249.5	396.5	583.6	565.8	1320.9	2621.8	3225.5	2263.2
82.5°	120.3	122.5	178.2	260.6	369.8	274.0	389.8	815.3	1024.7	654.9
85°	69.1	66.8	131.4	151.5	164.8	113.6	118.1	245.0	320.8	276.2
87.5°	8.9	13.4	51.2	40.1	22.3	24.5	24.5	42.3	62.4	66.8
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°
3864.8	0°	3864.8	3864.8	3864.8	3864.8	3864.8	3864.8	3864.8	3864.8	3864.8	3864.8
3869.2	2.5°	3869.2	3867.0	3860.3	3853.6	3838.0	3829.1	3833.6	3829.1	3826.9	3829.1
3898.2	5°	3898.2	3891.5	3873.7	3851.4	3820.2	3782.3	3757.8	3722.2	3688.8	3668.7
3976.1	7.5°	3976.1	3969.5	3945.0	3882.6	3782.3	3624.2	3479.4	3352.4	3256.6	3201.0
4100.9	10°	4100.9	4089.7	4051.9	3913.8	3650.9	3305.7	3018.3	2780.0	2624.0	2550.5
4247.9	12.5°	4247.9	4234.5	4167.7	3884.8	3401.4	2862.4	2465.9	2200.8	2056.0	1991.4
4417.2	15°	4421.6	4403.8	4272.4	3746.7	3038.3	2372.3	2009.2	1811.0	1717.4	1659.5
4633.3	17.5°	4637.7	4606.5	4350.4	3539.5	2644.1	1998.1	1728.6	1579.3	1496.9	1441.2
4916.2	20°	4918.4	4867.1	4412.7	3292.3	2281.0	1762.0	1539.2	1414.5	1352.1	1303.1
5317.1	22.5°	5310.4	5236.9	4488.5	3025.0	2024.8	1599.4	1398.9	1307.6	1256.3	1200.6
5876.2	25°	5796.0	5709.2	4582.0	2777.7	1848.8	1459.0	1296.4	1220.7	1160.5	1095.9
6609.1	27.5°	6475.4	6319.5	4693.4	2575.0	1697.4	1338.7	1202.9	1118.2	1049.2	995.7
7439.9	30°	7232.8	6976.6	4791.4	2452.5	1559.3	1227.4	1080.4	995.7	931.1	893.2
8186.2	32.5°	7950.0	7602.6	4856.0	2399.0	1434.5	1100.4	946.7	855.4	806.4	795.2
8916.8	35°	8627.2	8168.3	4849.3	2347.8	1323.2	973.4	815.3	721.7	683.9	690.5
9703.1	37.5°	9406.9	8772.0	4802.6	2267.6	1231.8	857.6	701.7	619.3	585.8	588.1
10658.7	40°	10313.5	9469.2	4773.6	2116.2	1131.6	750.7	608.1	541.3	516.8	507.9
11665.6	42.5°	11280.2	10144.2	4778.0	1944.6	1006.8	654.9	543.5	487.8	465.6	458.9
12786.0	45°	12251.4	10787.9	4784.7	1766.4	875.4	581.4	496.7	450.0	436.6	427.7
13922.1	47.5°	13164.7	11335.9	4660.0	1574.9	746.2	525.7	458.9	427.7	416.5	405.4
15062.5	50°	14015.6	11701.2	4359.3	1352.1	643.8	481.1	429.9	407.6	396.5	385.4
16096.1	52.5°	14677.2	11759.1	3862.5	1122.7	572.5	447.7	412.1	392.0	378.7	367.5
16931.4	55°	14971.2	11396.0	3156.4	908.8	516.8	418.8	394.3	374.2	358.6	347.5
17588.6	57.5°	14895.5	10632.0	2461.4	730.6	463.3	389.8	372.0	358.6	340.8	323.0
18120.9	60°	14523.5	9609.6	1855.5	608.1	414.3	358.6	347.5	336.4	311.9	285.1
18325.9	62.5°	13879.7	8324.3	1323.2	503.4	360.9	323.0	318.5	309.6	274.0	225.0
18022.9	65°	12895.2	6762.8	891.0	418.8	309.6	282.9	285.1	269.5	222.8	167.1
16913.6	67.5°	11456.2	4945.1	570.2	343.0	258.4	236.1	238.3	229.4	189.3	142.6
14810.8	70°	9622.9	3274.5	372.0	260.6	207.2	182.7	196.0	198.3	160.4	115.8
11367.1	72.5°	7054.6	1933.5	260.6	193.8	151.5	127.0	160.4	164.8	129.2	86.9
6838.5	75°	4020.7	917.7	196.0	140.3	93.6	89.1	124.7	124.7	89.1	57.9
2960.4	77.5°	1688.5	383.1	138.1	91.3	53.5	51.2	84.6	78.0	44.6	26.7
721.7	80°	487.8	171.5	73.5	44.6	22.3	20.0	33.4	24.5	11.1	4.5
274.0	82.5°	191.6	75.7	29.0	17.8	8.9	8.9	4.5	0.0	0.0	0.0
155.9	85°	113.6	31.2	13.4	6.7	2.2	0.0	0.0	0.0	0.0	0.0
33.4	87.5°	29.0	6.7	4.5	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>
3864.8
3838.0
3673.2
3203.2
2543.8
1984.7
1661.7
1436.8
1294.2
1191.7
1089.3
984.6
886.6
801.9
690.5
597.0
505.6
456.6
427.7
405.4
385.4
365.3
345.3
320.8
280.7
220.5
162.6
135.9
111.4
82.4
53.5
26.7
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