

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: P955387

Luminaire Tested: **GALN-SB8B-835-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-835-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32277 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

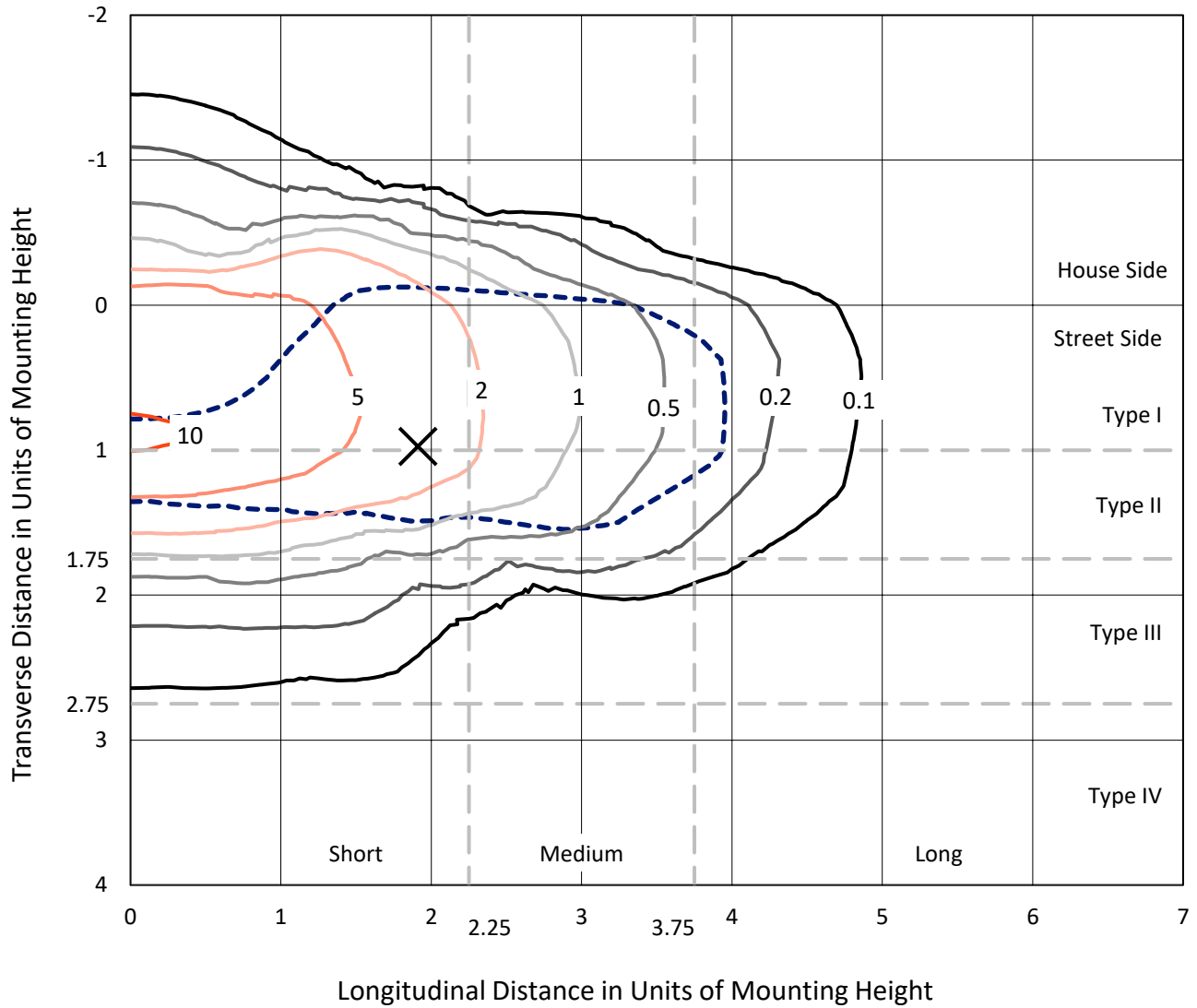
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955387
 CATALOG NUMBER: GALN-SB8B-835-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

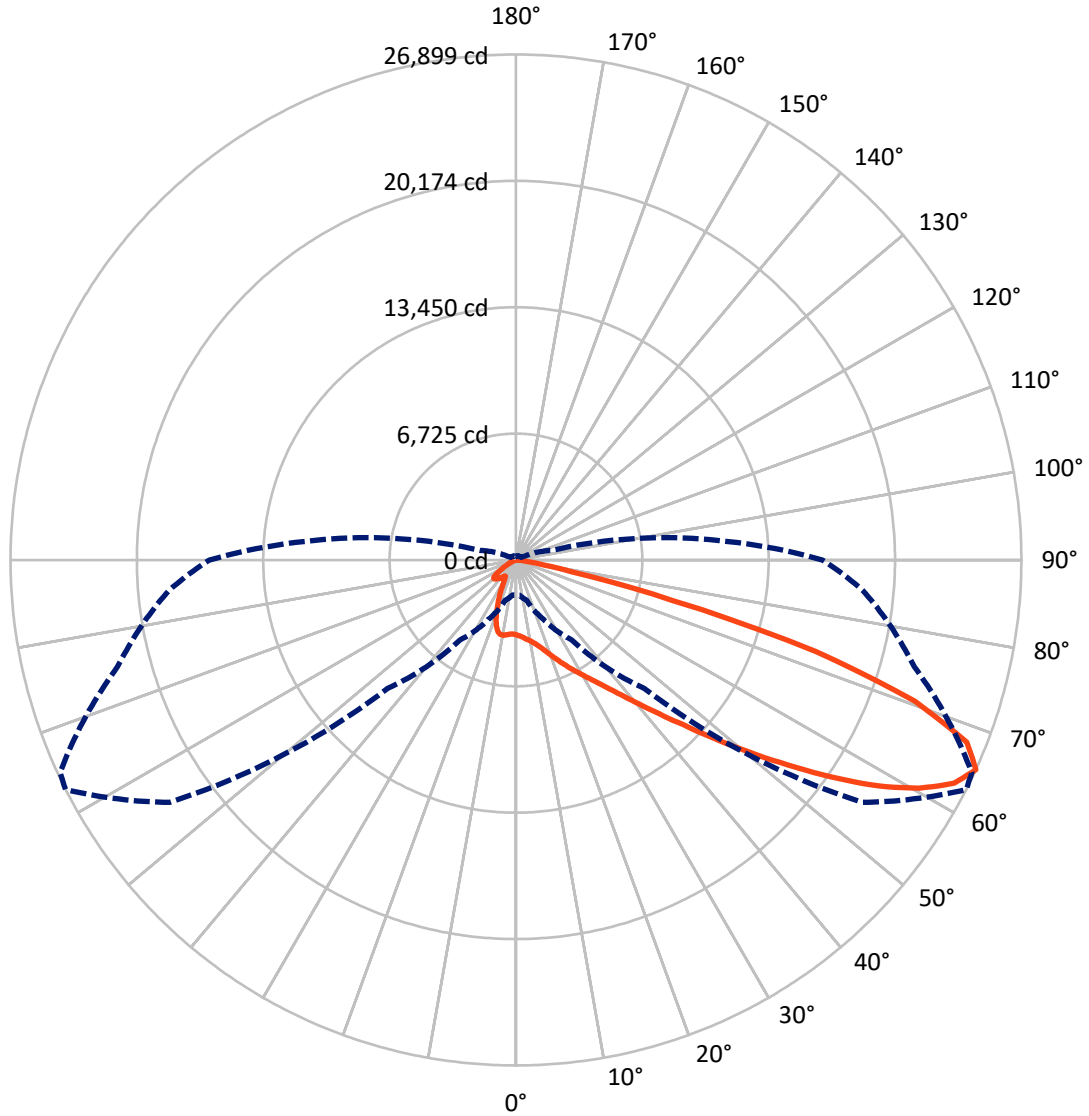
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

REPORT NUMBER: P955387
CATALOG NUMBER: GALN-SB8B-835-U-T2U-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4744.5	0.0	4744.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	27532.5	0.0	27532.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	32277.0	0.0	32277.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.3	1.2
10°-20°	1041.4	3.2
20°-30°	1813.3	5.6
30°-40°	3268.4	10.1
40°-50°	6482.2	20.1
50°-60°	8829.8	27.4
60°-70°	7047.9	21.8
70°-80°	3189.3	9.9
80°-90°	229.2	0.7
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°	32277.0	100.0
0°-180°	32277.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955387

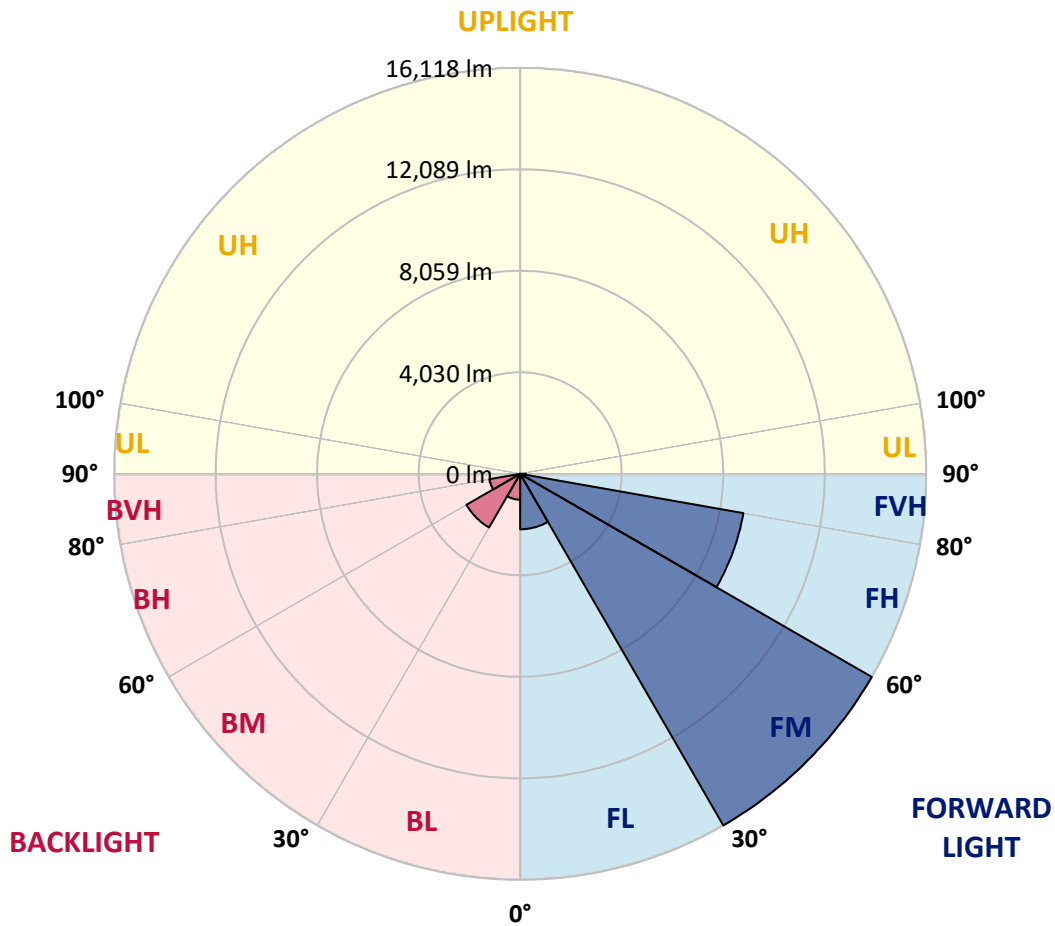
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2203.3	6.8			
FM (30°-60°)	16118.3	49.9			
FH (60°-80°)	8998.7	27.9			G4/12000
FVH (80°-90°)	212.2	0.7			G2/225
BL (0°-30°)	1026.8	3.2	B3/2500		
BM (30°-60°)	2462.1	7.6	B2/2500		
BH (60°-80°)	1238.6	3.8	B3/2500		G3/2500
BVH (80°-90°)	17.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



REPORT NUMBER: P955387

CATALOG NUMBER: GALN-SB8B-835-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6
2.5°	4076.9	4065.8	4081.3	4074.6	4070.2	4061.3	4056.9	4052.4	4043.5	4036.9
5°	4088.0	4081.3	4096.8	4110.2	4123.5	4136.8	4143.5	4152.4	4143.5	4125.7
7.5°	3994.7	3990.3	4023.6	4063.5	4123.5	4174.6	4230.1	4261.2	4263.4	4256.7
10°	3988.0	3976.9	4010.2	4059.1	4136.8	4227.8	4325.5	4392.2	4401.0	4429.9
12.5°	4092.4	4081.3	4127.9	4181.2	4261.2	4356.6	4476.5	4569.8	4583.1	4623.1
15°	4267.8	4252.3	4305.6	4374.4	4476.5	4585.3	4711.9	4796.3	4807.4	4856.3
17.5°	4472.1	4456.6	4518.7	4592.0	4703.0	4851.8	4998.4	5091.6	5104.9	5136.0
20°	4734.1	4714.1	4763.0	4829.6	4947.3	5124.9	5300.4	5433.6	5431.4	5431.4
22.5°	5038.3	5007.2	5049.4	5102.7	5213.8	5429.1	5662.3	5820.0	5820.0	5757.8
25°	5364.7	5333.7	5380.3	5429.1	5526.8	5771.1	6044.2	6239.6	6248.5	6141.9
27.5°	5773.3	5733.4	5768.9	5826.6	5884.3	6133.0	6457.2	6683.7	6688.2	6523.9
30°	6559.4	6446.1	6335.1	6272.9	6299.6	6546.1	6892.5	7143.4	7165.6	6939.1
32.5°	7998.3	7976.1	7585.3	7074.5	6808.1	6990.2	7378.7	7680.7	7694.1	7403.2
35°	10234.3	10207.7	9579.3	8606.7	7738.5	7585.3	7969.4	8326.9	8318.0	7989.4
37.5°	12903.4	12878.9	12050.7	10749.5	9343.9	8484.6	8731.0	9106.3	9161.8	8731.0
40°	15183.8	15092.8	14568.8	13314.2	11475.6	9976.7	9814.6	10063.3	10121.1	9610.4
42.5°	16911.4	16833.7	16567.2	15783.4	14055.8	12183.9	11091.4	11186.9	11251.3	10638.5
45°	17806.3	17788.5	17895.1	17821.8	16684.9	14892.9	12916.7	12519.2	12543.7	11777.6
47.5°	17932.8	17923.9	18410.2	19098.6	18945.4	17948.4	15259.3	14180.2	14093.6	13063.2
50°	17186.7	17169.0	18101.6	19391.7	20455.3	20515.3	17919.5	16052.1	15861.1	14393.3
52.5°	14804.1	14799.7	16331.8	18479.1	20986.0	22762.4	20548.6	18108.2	17788.5	15801.1
55°	11391.2	11473.4	13229.8	15767.8	20017.9	23843.8	22909.0	20390.9	19900.2	17217.8
57.5°	8069.3	8189.2	9925.7	12186.1	17015.8	23204.3	24505.5	22678.0	22149.6	18630.1
60°	4334.4	4441.0	6179.7	8877.6	12659.1	20819.5	25347.1	24663.2	24163.6	19971.3
62.5°	2582.5	2618.0	3337.4	5731.1	8562.3	15905.5	24989.6	26175.4	25764.6	21097.0
65°	1854.1	1860.8	2222.7	3499.5	5198.2	9663.7	22482.6	26899.2	26772.7	21945.3
67.5°	1561.0	1556.6	1707.6	2324.9	3541.7	4840.7	17231.1	25875.6	26412.9	22482.6
70°	1339.0	1345.6	1523.3	1703.1	2662.4	2740.1	8566.7	22529.3	23675.1	22624.8
72.5°	997.0	1019.2	1183.5	1552.1	2009.6	1885.2	2957.7	16704.9	18776.6	21316.9
75°	703.9	715.0	832.7	1305.7	1498.8	1372.3	1509.9	8635.6	11291.3	16342.9
77.5°	541.8	561.8	630.6	912.6	1476.6	963.7	923.7	2988.8	4592.0	9872.4
80°	293.1	328.6	455.2	659.5	1037.0	681.7	457.4	1190.2	1556.6	4616.4
82.5°	151.0	168.8	317.5	475.2	590.7	595.1	226.5	495.2	641.7	1425.6
85°	60.0	73.3	213.2	262.0	304.2	293.1	102.1	199.8	230.9	395.3
87.5°	13.3	22.2	77.7	60.0	57.7	62.2	24.4	46.6	44.4	46.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955387
 CATALOG NUMBER: GALN-SB8B-835-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3983.6	0°	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6
4010.2	2.5°	4008.0	3999.1	3974.7	3948.1	3917.0	3899.2	3888.1	3885.9	3870.3	3859.2
4099.1	5°	4074.6	4065.8	4019.1	3963.6	3903.7	3857.0	3812.6	3772.6	3714.9	3703.8
4227.8	7.5°	4207.9	4183.4	4107.9	4032.4	3919.2	3783.7	3619.4	3430.7	3261.9	3210.9
4398.8	10°	4372.2	4338.9	4243.4	4110.2	3859.2	3490.6	3093.2	2724.6	2431.5	2349.3
4600.9	12.5°	4558.7	4529.8	4403.3	4156.8	3608.3	2940.0	2331.5	1874.1	1589.9	1518.8
4816.3	15°	4780.8	4738.6	4563.1	4085.7	3159.8	2233.8	1601.0	1330.1	1227.9	1214.6
5062.8	17.5°	5016.1	4947.3	4705.3	3830.4	2555.8	1587.7	1236.8	1159.1	1114.7	1101.4
5311.5	20°	5231.5	5142.7	4789.6	3444.0	1909.6	1236.8	1108.0	1057.0	1017.0	1001.4
5560.2	22.5°	5446.9	5320.3	4789.6	2917.7	1432.2	1096.9	1017.0	970.4	923.7	903.7
5826.6	25°	5671.2	5502.4	4705.3	2331.5	1152.4	1005.9	930.4	879.3	839.4	814.9
6079.8	27.5°	5888.8	5655.6	4512.1	1776.4	1025.9	926.0	850.5	801.6	763.9	746.1
6355.1	30°	6095.3	5806.6	4241.2	1347.8	943.7	848.2	777.2	735.0	697.2	679.5
6712.6	32.5°	6375.1	5997.6	3952.5	1105.8	872.7	775.0	710.6	670.6	637.3	624.0
7176.7	35°	6763.7	6279.6	3703.8	1085.8	812.7	715.0	650.6	612.9	579.6	568.5
7776.2	37.5°	7314.4	6734.8	3572.8	1219.1	763.9	661.7	601.8	561.8	530.7	521.8
8537.9	40°	7993.8	7352.1	3643.9	1352.3	730.5	615.1	557.3	517.4	490.7	479.6
9412.7	42.5°	8799.9	8113.7	4036.9	1454.4	708.3	575.1	515.2	470.7	453.0	448.5
10405.3	45°	9725.8	8950.9	4638.6	1563.2	672.8	537.4	473.0	439.7	426.3	424.1
11484.5	47.5°	10778.3	9870.2	5335.9	1698.7	637.3	501.8	439.7	417.5	406.4	401.9
12610.3	50°	11822.0	10796.1	6053.1	1774.2	608.4	468.5	413.0	395.3	386.4	384.1
13800.5	52.5°	12914.5	11748.7	6632.7	1703.1	584.0	441.9	390.8	377.5	368.6	366.4
14897.4	55°	13955.9	12519.2	6732.6	1445.6	535.1	415.2	366.4	359.7	348.6	348.6
16009.9	57.5°	14853.0	12905.6	6026.5	1061.4	486.3	375.3	342.0	335.3	326.4	324.2
17013.5	60°	15676.8	12794.6	4652.0	715.0	433.0	335.3	310.9	306.4	297.5	286.4
17886.2	62.5°	16140.9	12306.1	3182.0	466.3	379.7	293.1	275.3	273.1	253.1	230.9
18532.4	65°	16316.3	11302.4	1985.1	339.7	317.5	250.9	237.6	233.2	204.3	179.9
18898.7	67.5°	16163.1	9650.3	1001.4	268.7	250.9	208.7	195.4	195.4	175.4	153.2
18876.5	70°	15550.2	7234.4	421.9	215.4	193.2	159.9	159.9	168.8	148.8	124.3
17897.3	72.5°	14220.1	4867.4	224.3	164.3	144.3	113.2	131.0	137.7	117.7	93.3
14648.7	75°	11304.6	2968.8	155.4	122.1	91.0	79.9	99.9	104.4	79.9	62.2
10043.4	77.5°	7731.8	1705.4	104.4	77.7	57.7	46.6	68.8	64.4	42.2	28.9
3872.6	80°	3395.2	710.6	60.0	35.5	22.2	17.8	24.4	17.8	13.3	8.9
530.7	82.5°	397.5	166.5	22.2	13.3	8.9	4.4	2.2	0.0	0.0	0.0
162.1	85°	82.2	20.0	11.1	4.4	2.2	0.0	0.0	0.0	0.0	0.0
28.9	87.5°	15.5	4.4	2.2	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>
3983.6
3870.3
3699.4
3186.4
2318.2
1498.8
1201.3
1094.7
992.6
892.6
806.0
746.1
681.7
624.0
568.5
519.6
477.4
448.5
421.9
401.9
384.1
366.4
346.4
322.0
284.2
226.5
177.6
151.0
122.1
93.3
60.0
31.1
8.9
0.0
0.0
0.0
0.0

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