

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: P944739

Luminaire Tested: **GALN-SB9D-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 79660 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

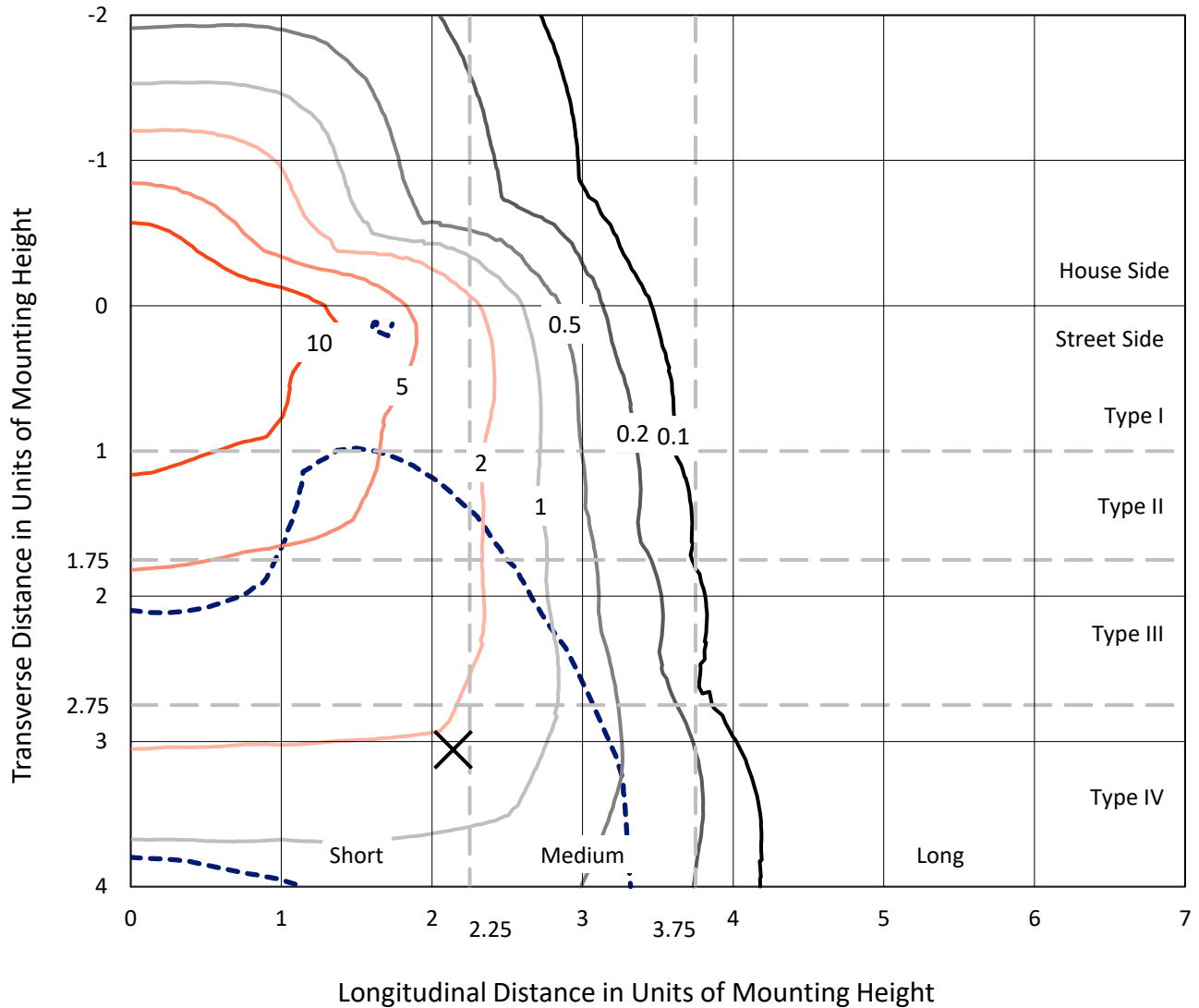
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

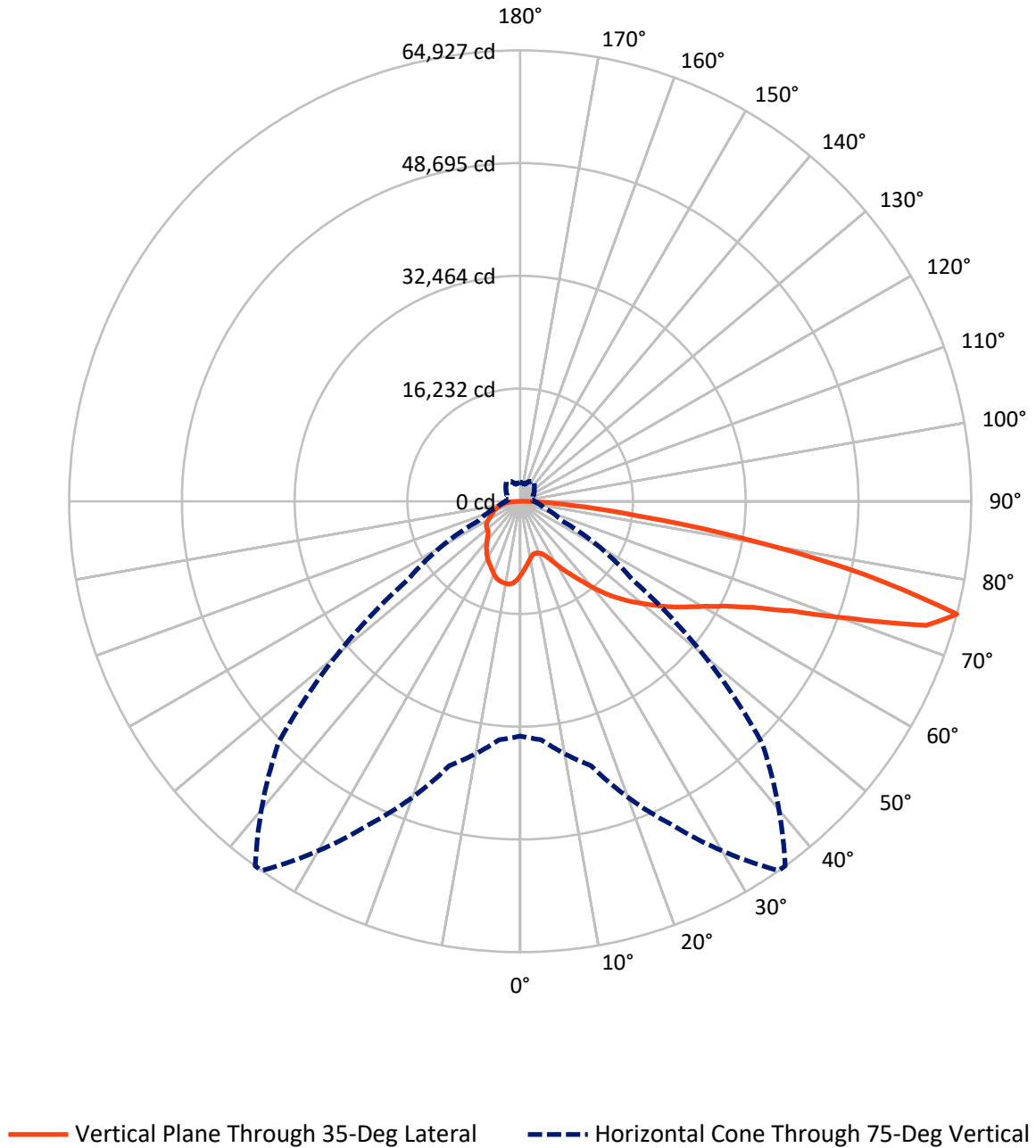
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18957.1	0.0	18957.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	60702.9	0.0	60702.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	79660.0	0.0	79660.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1005.0	1.3
10°-20°	2899.0	3.6
20°-30°	4868.2	6.1
30°-40°	7565.8	9.5
40°-50°	11229.7	14.1
50°-60°	15503.3	19.5
60°-70°	18809.0	23.6
70°-80°	15544.2	19.5
80°-90°	2235.7	2.8
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°	79660.0	100.0
0°-180°	79660.0	100.0

Coefficient of Utilization



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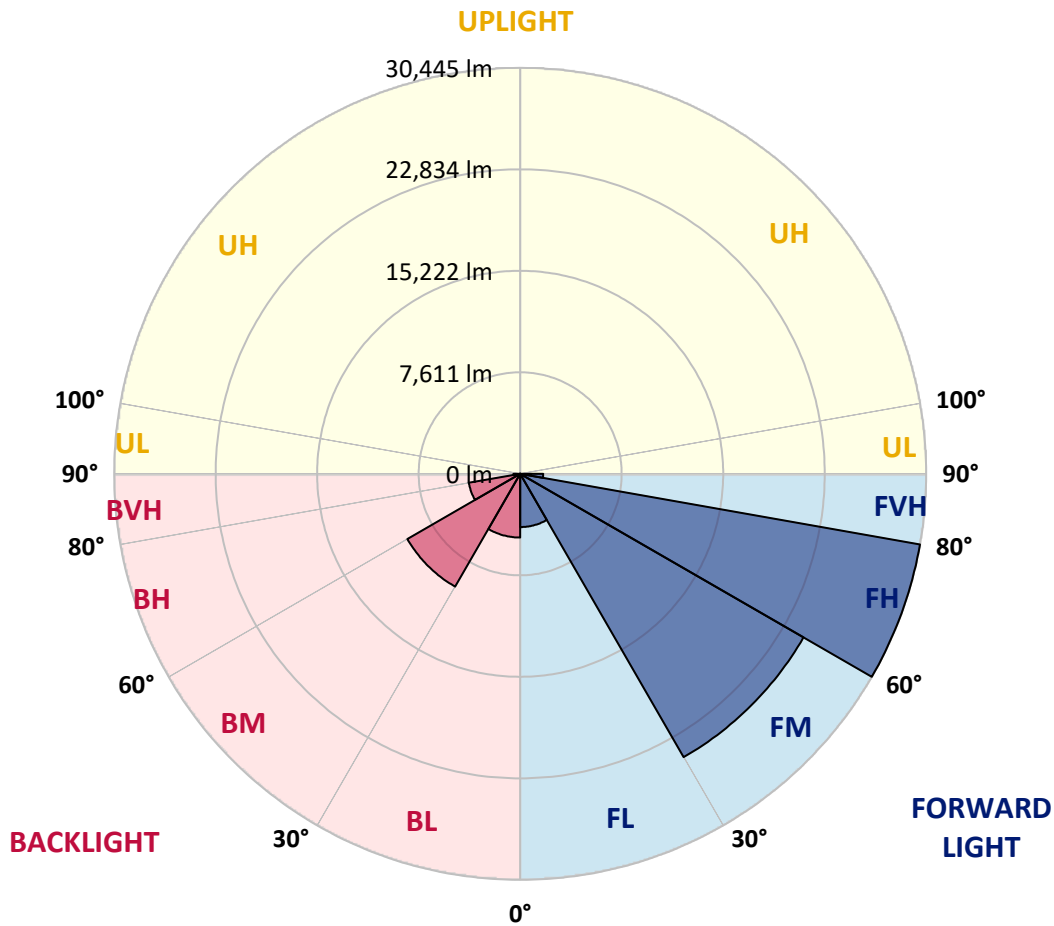
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3994.8	5.0			
FM (30°-60°)	24531.0	30.8			
FH (60°-80°)	30444.9	38.2			G5
FVH (80°-90°)	1732.3	2.2			G5
BL (0°-30°)	4777.4	6.0	B4/5000		
BM (30°-60°)	9767.8	12.3	B5		
BH (60°-80°)	3908.4	4.9	B4/5000		G4/5000
BVH (80°-90°)	503.4	0.6			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	10615.2	10615.2	10615.2	10615.2	10615.2	10615.2	10615.2	10615.2	10615.2	10615.2
2.5°	9788.4	9848.7	9874.5	9861.6	9926.2	9917.6	10008.0	10120.0	10275.0	10425.8
5°	9034.8	9099.4	9155.4	9207.0	9331.9	9370.7	9512.8	9728.1	10012.3	10300.9
7.5°	8332.9	8388.8	8475.0	8569.7	8780.7	8819.5	9056.3	9392.2	9788.4	10210.4
10°	7760.1	7816.1	7906.5	8014.2	8276.9	8324.2	8625.7	9073.5	9590.3	10124.3
12.5°	7514.6	7531.9	7583.5	7691.2	7919.4	7949.6	8281.2	8793.6	9396.5	10059.7
15°	7501.7	7536.2	7540.5	7596.5	7785.9	7798.9	8104.6	8612.8	9275.9	10046.8
17.5°	7630.9	7656.7	7618.0	7652.4	7811.8	7833.3	8074.5	8526.6	9237.2	10102.8
20°	7975.4	7997.0	7880.7	7833.3	7949.6	7966.8	8203.7	8582.6	9275.9	10219.0
22.5°	8707.5	8720.4	8436.2	8242.4	8251.0	8259.6	8466.3	8810.9	9426.7	10430.1
25°	9848.7	9840.1	9387.9	9013.3	8797.9	8750.6	8888.4	9181.2	9680.7	10710.0
27.5°	11183.7	11119.1	10666.9	10107.1	9637.7	9568.8	9538.6	9663.5	10042.5	11080.3
30°	12690.9	12630.6	12144.0	11411.9	10761.7	10649.7	10365.5	10300.9	10580.8	11584.2
32.5°	14344.6	14305.8	13724.4	12837.3	11967.4	11838.2	11360.2	11188.0	11407.6	12346.4
35°	15731.2	15696.8	15214.5	14301.5	13237.8	13078.5	12591.9	12398.1	12510.0	13323.9
37.5°	16984.4	16967.1	16553.7	15834.6	14736.4	14542.7	13995.7	13931.1	13909.6	14611.6
40°	18147.1	18104.0	17673.4	17294.4	16480.5	16304.0	15821.7	15765.7	15602.0	16196.3
42.5°	19434.7	19322.7	18698.3	18521.8	18302.1	18155.7	17867.2	17875.8	17514.1	17983.5
45°	20485.5	20420.9	19779.2	19675.9	19912.7	19852.4	20102.2	20166.8	19464.9	19856.7
47.5°	21613.7	21553.4	21010.8	20937.6	21579.3	21596.5	22479.3	22500.9	21368.3	21803.2
50°	23004.7	22918.6	22380.3	22470.7	23189.9	23254.5	24869.4	24722.9	23121.0	23779.8
52.5°	23922.0	23973.6	23857.4	24003.8	24985.6	25045.9	27220.6	26846.0	24856.4	25730.6
55°	24598.1	24701.4	25063.1	25399.0	26880.4	26940.7	29438.4	28865.7	26294.8	27539.3
57.5°	25467.9	25321.5	25997.6	26652.2	28680.5	28839.8	31595.9	30812.2	27569.5	29098.2
60°	26716.8	26613.4	27138.8	28107.8	30695.9	30950.0	33878.3	32564.9	28503.9	30334.2
62.5°	29249.0	28990.6	29072.4	29929.4	33236.7	33572.6	36453.5	34093.6	28969.0	30816.5
65°	33034.3	32590.7	32177.3	32771.6	36815.3	37146.9	39360.3	35295.1	28796.8	29882.0
67.5°	37801.4	37362.2	36854.0	37413.9	42086.3	42349.0	42947.6	35971.2	27440.3	26281.9
70°	41733.2	41569.5	42176.7	44480.6	50505.3	50513.9	47546.8	35411.4	23723.9	18633.7
72.5°	41212.1	41113.0	44312.7	51435.4	61116.2	60887.9	51900.5	31173.9	15981.0	8406.1
75°	33809.4	34451.1	39407.7	51310.6	64927.3	64897.2	49234.9	19818.0	6610.3	3483.9
77.5°	18129.9	19146.2	25584.2	37883.3	50686.1	51448.4	34614.7	6933.3	2837.9	2230.7
80°	5912.7	6799.8	10197.5	19288.3	32935.2	32793.1	14835.5	2721.6	1942.2	1580.4
82.5°	2510.6	2614.0	4556.2	9108.0	16902.6	16639.9	4724.1	1563.2	1365.1	1080.9
85°	981.9	1098.1	2011.1	4211.6	7320.9	7161.5	1705.3	775.1	874.2	706.2
87.5°	323.0	391.9	719.2	1442.6	2278.1	2196.3	417.7	267.0	379.0	323.0
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°
10615.2	0°	10615.2	10615.2	10615.2	10615.2	10615.2	10615.2	10615.2	10615.2	10615.2	10615.2
10645.4	2.5°	10705.7	10774.6	10856.4	10977.0	11080.3	11166.5	11256.9	11312.9	11334.4	11399.0
10662.6	5°	10783.2	10933.9	11136.3	11334.4	11528.2	11644.5	11747.8	11799.5	11846.9	11881.3
10710.0	7.5°	10912.4	11106.2	11424.8	11683.2	11846.9	11941.6	12010.5	11993.3	12010.5	12019.1
10761.7	10°	11024.3	11295.6	11674.6	11920.1	12045.0	12049.3	12032.0	11971.7	11941.6	11945.9
10839.2	12.5°	11157.8	11459.3	11868.4	12075.1	12109.5	12014.8	11941.6	11838.2	11799.5	11782.3
10955.4	15°	11338.7	11683.2	12079.4	12156.9	12070.8	11950.2	11825.3	11657.4	11571.3	11502.3
11153.5	17.5°	11558.3	11937.3	12243.0	12187.1	12001.9	11803.8	11601.4	11347.3	11170.8	11097.5
11424.8	20°	11864.1	12204.3	12367.9	12122.5	11842.6	11541.1	11196.6	10886.5	10722.9	10649.7
11769.3	22.5°	12234.4	12561.7	12488.5	12010.5	11614.3	11132.0	10701.4	10473.1	10391.3	10339.6
12212.9	25°	12678.0	12957.9	12574.6	11846.9	11239.7	10589.4	10257.8	10184.6	10145.8	10107.1
12755.5	27.5°	13255.0	13405.8	12639.2	11605.7	10654.0	10012.3	9891.8	9904.7	9891.8	9827.2
13509.1	30°	14017.3	13987.1	12699.5	11213.8	9982.2	9491.3	9499.9	9555.9	9564.5	9521.4
14559.9	32.5°	15020.7	14714.9	12729.7	10705.7	9340.5	9034.8	9043.4	9103.7	9146.8	9073.5
15933.6	35°	16235.1	15563.3	12682.3	10068.3	8845.3	8599.8	8535.3	8552.5	8565.4	8496.5
17600.2	37.5°	17651.9	16515.0	12471.3	9362.1	8436.2	8173.5	8035.7	7919.4	7850.5	7785.9
19486.4	40°	19206.5	17552.8	12083.7	8673.1	7979.7	7721.3	7514.6	7295.0	7062.5	6976.3
21484.5	42.5°	20834.3	18620.8	11614.3	8014.2	7454.3	7243.3	7023.7	6705.0	6356.2	6179.7
23560.2	45°	22522.4	19714.6	11153.5	7363.9	6916.1	6825.6	6571.5	6188.3	5809.3	5585.4
25640.2	47.5°	24176.0	20748.2	10477.4	6709.3	6412.2	6511.3	6313.2	5960.0	5538.0	5184.9
27703.0	50°	25756.5	21717.1	9370.7	6046.2	6003.1	6416.5	6227.0	5718.9	5236.6	4784.4
29727.0	52.5°	27324.0	22500.9	7953.9	5443.3	5783.5	6390.7	6115.1	5555.2	4965.3	4491.6
31630.4	55°	28654.7	22905.7	6588.8	4926.5	5464.8	6171.0	5981.6	5361.4	4582.0	4078.1
32935.2	57.5°	29412.6	22578.4	5451.9	4418.3	5025.5	5809.3	5753.3	4948.0	4125.5	3737.9
33189.3	60°	29085.3	21252.0	4521.7	3974.8	4607.8	5417.4	5357.1	4538.9	3776.7	3410.7
31828.5	62.5°	27280.9	18724.2	3785.3	3587.2	4228.9	5016.9	4961.0	4224.6	3509.7	3156.6
28215.4	65°	23646.3	15231.7	3212.6	3264.2	3845.6	4534.6	4616.4	3961.9	3298.7	2954.2
21829.1	67.5°	18035.1	11033.0	2764.7	2984.3	3470.9	4060.9	4297.8	3772.4	3122.1	2794.8
12630.6	70°	10279.3	6265.8	2385.7	2713.0	3139.4	3621.7	4052.3	3621.7	2932.6	2661.3
4732.7	72.5°	3897.3	2876.7	2062.8	2441.7	2820.7	3251.3	3781.0	3384.8	2713.0	2510.6
2446.0	75°	2080.0	1752.7	1735.5	2123.0	2454.6	2889.6	3440.8	3152.3	2549.4	2652.7
1692.4	77.5°	1416.8	1240.2	1451.3	1817.3	2054.1	2489.1	3079.1	2799.1	2209.2	2200.6
1171.3	80°	981.9	878.5	1179.9	1464.2	1589.1	2092.9	2687.2	2403.0	1800.1	1679.5
723.5	82.5°	590.0	572.7	882.8	1093.8	1124.0	1614.9	2226.4	2015.4	1472.8	1283.3
430.6	85°	323.0	340.2	564.1	641.7	654.6	1128.3	1744.1	1558.9	1132.6	951.7
155.0	87.5°	90.4	116.3	206.7	254.1	314.4	585.7	1037.8	925.9	568.4	396.2
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°
10615.2
11394.7
11889.9
12032.0
11954.5
11773.7
11523.9
11101.9
10641.1
10348.2
10107.1
9840.1
9542.9
9108.0
8543.9
7829.0
7015.1
6201.2
5568.2
5146.1
4745.6
4439.9
4035.1
3686.3
3359.0
3100.6
2898.2
2743.2
2626.9
2476.2
2738.9
2028.3
1606.3
1291.9
960.3
396.2
0.0

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