

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: P956435

Luminaire Tested: **GALN-SB9A-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31084 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

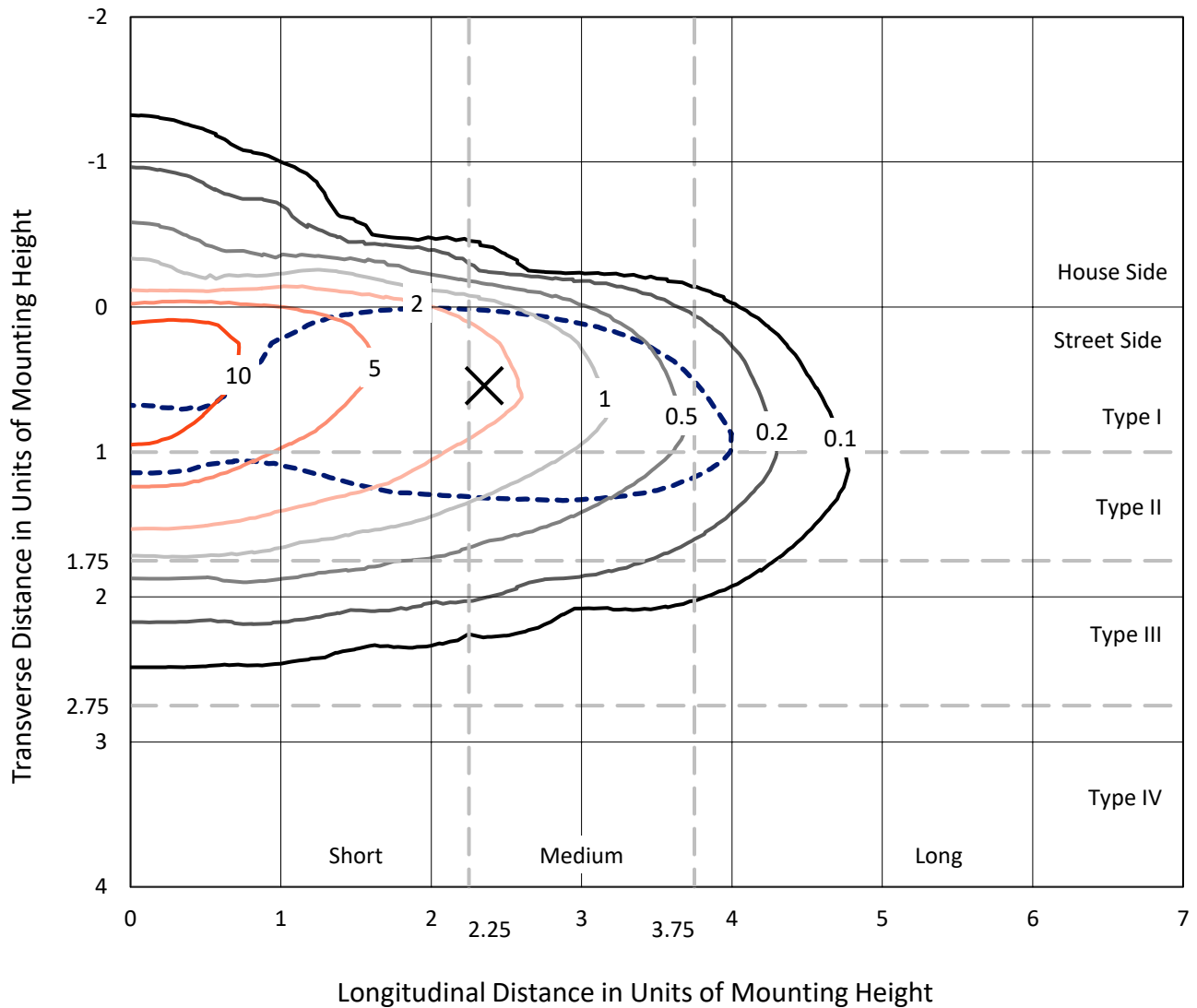
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

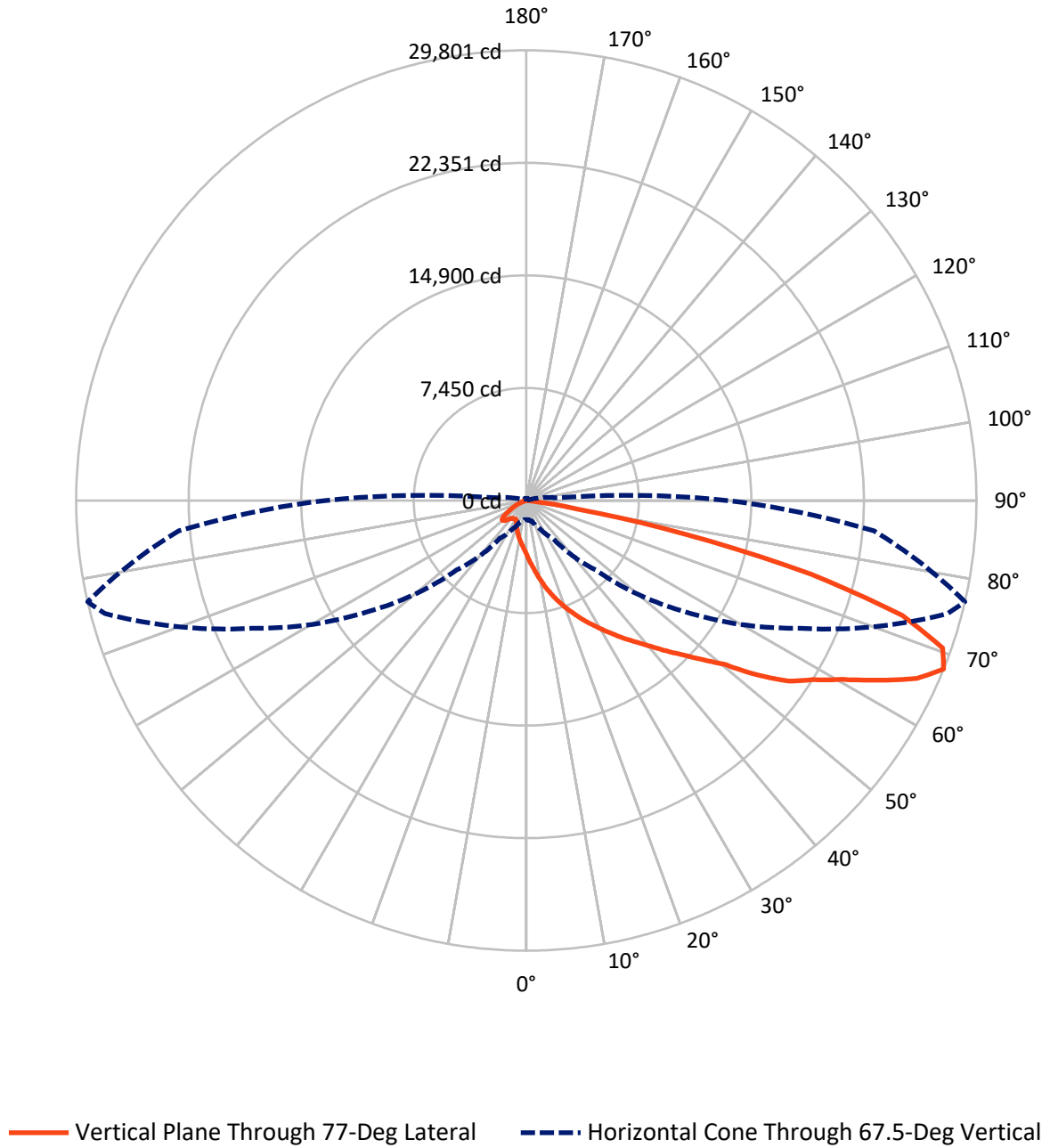
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2286.9	0.0	2286.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	28797.1	0.0	28797.1
	% Fixture	92.6	0.0	92.6
Total	Lumens	31084.0	0.0	31084.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.8	1.2
10°-20°	1281.2	4.1
20°-30°	2472.3	8.0
30°-40°	4292.1	13.8
40°-50°	6231.8	20.0
50°-60°	7156.5	23.0
60°-70°	6213.1	20.0
70°-80°	2926.5	9.4
80°-90°	144.7	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°	31084.0	100.0
0°-180°	31084.0	100.0

Coefficient of Utilization



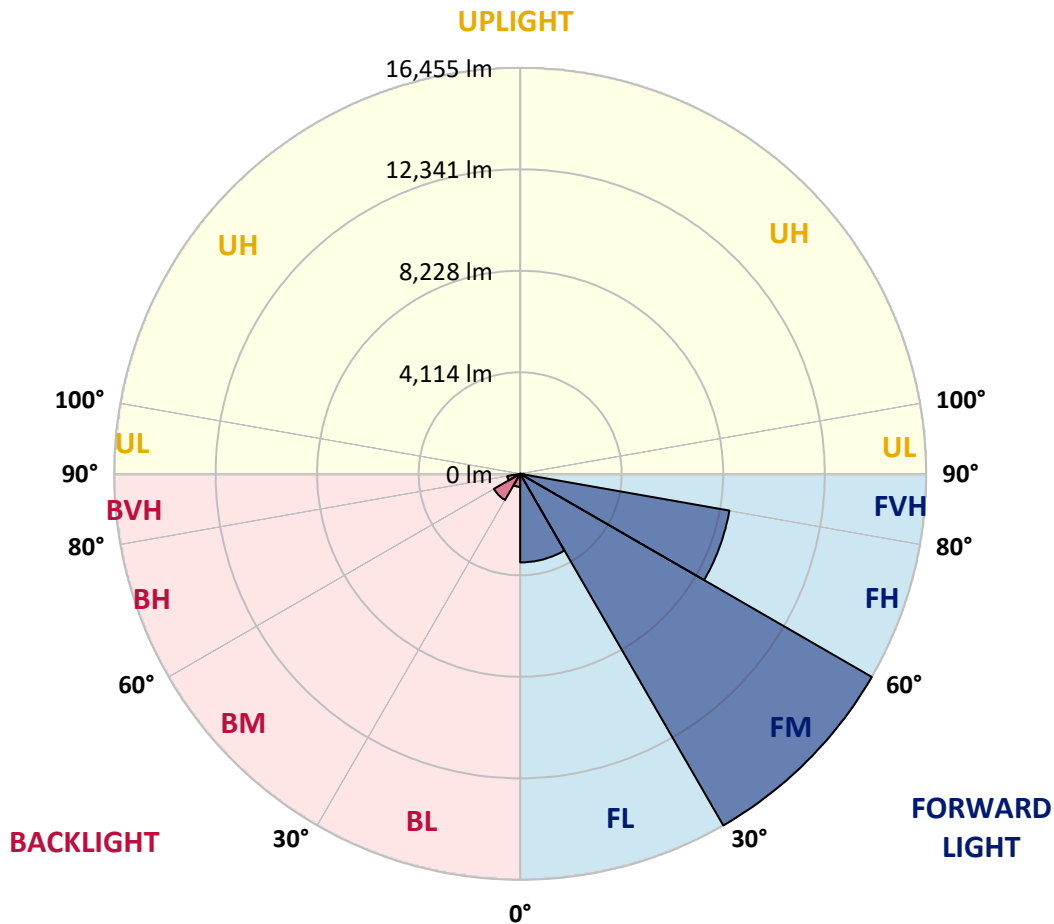
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3589.9	11.5			
FM (30°-60°)	16455.0	52.9			
FH (60°-80°)	8610.2	27.7			G4/12000
FVH (80°-90°)	142.1	0.5			G2/225
BL (0°-30°)	529.4	1.7	B2/1000		
BM (30°-60°)	1225.3	3.9	B2/2500		
BH (60°-80°)	529.4	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4
2.5°	4962.6	4993.5	4949.1	4864.2	4736.8	4653.8	4451.1	4260.0	4047.7	3980.1
5°	6049.3	6076.4	6026.2	5933.5	5763.7	5601.5	5335.2	4935.6	4520.6	4387.4
7.5°	6854.3	6869.7	6850.4	6765.5	6603.3	6420.0	6122.7	5649.8	5034.0	4887.3
10°	7433.3	7483.5	7477.7	7444.9	7336.8	7188.2	6871.6	6333.1	5609.3	5420.1
12.5°	7817.4	7873.4	7906.2	7979.6	7973.8	7879.2	7601.3	7031.8	6182.5	5960.6
15°	7929.4	7989.2	8114.7	8284.6	8435.1	8483.4	8288.4	7717.1	6813.7	6530.0
17.5°	7865.7	7958.3	8108.9	8377.2	8707.3	8925.4	8904.2	8379.1	7387.0	7062.7
20°	8006.6	8095.4	8213.1	8439.0	8823.1	9218.8	9377.1	9012.3	7956.4	7616.7
22.5°	8786.4	8771.0	8782.6	8819.2	9048.9	9440.8	9767.0	9587.5	8520.0	8172.6
25°	10021.8	9952.3	9834.5	9635.7	9577.8	9767.0	10106.7	10097.0	9114.6	8742.0
27.5°	11438.6	11427.0	11151.0	10672.3	10402.0	10328.7	10490.8	10593.1	9703.3	9305.7
30°	12795.5	12826.4	12453.9	11921.1	11425.0	11137.4	10990.7	11064.1	10301.7	9913.7
32.5°	13976.8	14009.6	13604.3	12980.8	12367.0	12019.6	11710.7	11529.3	10954.1	10531.3
35°	14974.7	15007.6	14542.4	13853.3	13198.9	12884.3	12534.9	12038.9	11610.3	11216.6
37.5°	15866.5	15856.9	15233.4	14538.5	13895.7	13646.7	13463.4	12666.2	12285.9	11905.7
40°	16393.5	16434.0	15901.3	15135.0	14511.5	14330.0	14318.5	13444.1	13065.7	12697.1
42.5°	16547.9	16619.3	16233.3	15604.0	15038.4	14841.6	15144.6	14285.7	13973.0	13613.9
45°	16269.9	16339.4	16163.8	15727.5	15397.5	15270.1	15854.9	15158.1	14941.9	14586.8
47.5°	15459.2	15546.1	15588.6	15495.9	15492.0	15621.4	16491.9	16076.9	16092.3	15729.5
50°	13890.0	14036.7	14426.6	14754.7	15262.3	15899.3	17111.5	17072.9	17389.5	17076.8
52.5°	11037.1	11245.5	12589.0	13486.5	14627.3	15847.2	17792.9	18671.1	19665.2	19207.7
55°	8869.4	8869.4	9961.9	11641.2	13388.1	15503.6	18090.1	19709.6	21215.2	21107.1
57.5°	7230.7	7317.5	8014.3	9498.7	11594.9	14685.2	18273.5	20362.0	22464.0	22384.9
60°	4462.7	4649.9	5966.3	7431.4	9554.7	13227.9	18157.7	21022.2	23979.3	24043.0
62.5°	2513.2	2582.7	3169.4	5346.7	7429.5	11268.7	17271.7	21390.8	25917.2	26187.5
65°	1735.3	1770.0	1995.9	3327.7	5149.9	8971.7	15540.3	21161.1	27859.0	28405.3
67.5°	1260.4	1277.8	1418.7	2032.5	3055.6	6504.9	12826.4	20003.0	28887.9	29800.9
70°	969.0	980.6	1082.9	1335.7	1804.8	4014.9	9315.3	17700.2	28142.8	29233.4
72.5°	787.5	799.1	878.3	988.3	1196.7	2374.2	5645.9	14374.4	24853.7	26031.1
75°	664.0	679.4	750.9	822.3	938.1	1524.9	2648.3	10010.2	18690.4	19462.5
77.5°	368.7	339.7	610.0	681.4	791.4	965.1	1239.2	5891.1	10467.7	10681.9
80°	229.7	237.4	484.5	548.2	608.0	486.4	567.5	2268.0	3628.8	3447.4
82.5°	13.5	30.9	372.5	395.7	416.9	208.5	214.3	770.2	874.4	803.0
85°	0.0	0.0	169.9	137.0	144.8	59.8	61.8	179.5	117.7	127.4
87.5°	0.0	0.0	0.0	3.9	0.0	5.8	11.6	15.4	5.8	7.7
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°
3584.4	0°	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4
3767.8	2.5°	3632.7	3497.6	3223.5	2955.2	2737.1	2534.4	2389.6	2252.6	2183.1	2179.2
4011.0	5°	3742.7	3459.0	2910.8	2426.3	2036.4	1723.7	1521.0	1376.3	1302.9	1277.8
4310.2	7.5°	3897.1	3470.6	2636.7	1963.0	1503.7	1235.3	1119.5	1073.2	1057.8	1040.4
4648.0	10°	4092.1	3497.6	2391.6	1580.9	1185.2	1050.0	1003.7	984.4	972.8	961.3
5028.3	12.5°	4310.2	3522.7	2148.3	1312.6	1042.3	972.8	940.0	916.9	901.4	887.9
5418.2	15°	4522.5	3538.1	1895.5	1125.3	969.0	913.0	878.3	853.2	831.9	816.5
5800.3	17.5°	4732.9	3559.3	1658.1	1013.4	909.1	853.2	818.4	787.5	770.2	752.8
6201.8	20°	4966.5	3555.5	1434.2	934.2	849.3	793.3	756.7	727.7	710.3	691.0
6626.5	22.5°	5182.7	3536.2	1237.3	866.7	787.5	733.5	693.0	664.0	646.6	631.2
7060.8	25°	5431.7	3520.7	1073.2	804.9	729.6	675.6	631.2	604.2	584.9	571.3
7497.0	27.5°	5671.0	3497.6	953.5	748.9	673.7	621.5	579.1	548.2	530.8	521.2
7946.8	30°	5906.5	3491.8	909.1	694.9	623.5	571.3	528.9	499.9	486.4	482.6
8440.9	32.5°	6190.3	3507.2	928.4	675.6	577.1	525.0	484.5	463.3	449.7	449.7
8991.0	35°	6493.3	3503.4	957.4	693.0	546.3	478.7	447.8	434.3	420.8	420.8
9601.0	37.5°	6873.6	3509.2	980.6	721.9	534.7	440.1	422.7	405.3	397.6	397.6
10268.8	40°	7441.0	3700.3	969.0	747.0	530.8	413.1	378.3	372.5	366.7	366.7
11023.6	42.5°	8135.9	4115.3	984.4	748.9	528.9	393.8	347.4	359.0	345.5	343.6
11874.8	45°	8896.4	4568.9	1082.9	708.4	527.0	384.1	332.0	345.5	324.3	324.3
12861.1	47.5°	9651.2	5018.6	1183.2	650.5	521.2	382.2	318.5	310.8	305.0	306.9
14146.7	50°	10691.6	5385.3	1221.8	571.3	507.7	378.3	293.4	295.3	291.5	295.3
15959.2	52.5°	11824.6	5462.6	1175.5	482.6	469.0	366.7	276.0	283.7	281.8	285.7
17235.0	55°	12531.1	5379.6	970.9	401.5	409.2	320.4	258.7	274.1	274.1	274.1
18482.0	57.5°	13260.7	5026.3	689.1	326.2	339.7	262.5	243.2	264.4	262.5	260.6
19983.7	60°	13785.7	4455.0	453.6	268.3	270.2	216.2	225.8	249.0	247.1	237.4
21531.7	62.5°	14177.6	3823.8	291.5	227.8	206.5	195.0	206.5	225.8	218.1	196.9
22844.3	65°	14133.2	2949.4	223.9	195.0	169.9	169.9	179.5	196.9	173.7	139.0
23095.2	67.5°	13309.0	1995.9	185.3	164.1	142.8	140.9	148.6	164.1	148.6	117.7
21809.7	70°	11836.2	1304.8	148.6	127.4	113.9	104.2	119.7	140.9	125.5	94.6
18566.9	72.5°	9606.8	795.3	112.0	92.7	83.0	67.6	94.6	115.8	100.4	69.5
12911.3	75°	6215.3	405.3	77.2	59.8	44.4	40.5	69.5	86.9	69.5	42.5
5728.9	77.5°	2378.0	169.9	42.5	27.0	23.2	19.3	38.6	52.1	29.0	9.7
1109.9	80°	457.5	71.4	21.2	13.5	11.6	7.7	5.8	3.9	0.0	0.0
196.9	82.5°	79.1	23.2	7.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0
38.6	85°	27.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.5	87.5°	9.7	0.0	0.0	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

180°
3584.4
2175.4
1274.0
1036.5
957.4
884.0
814.6
750.9
689.1
629.3
569.4
521.2
480.6
449.7
420.8
397.6
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