

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: P950723

Luminaire Tested: **GALN-SB5A-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950723
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-SB5A-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 17239 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

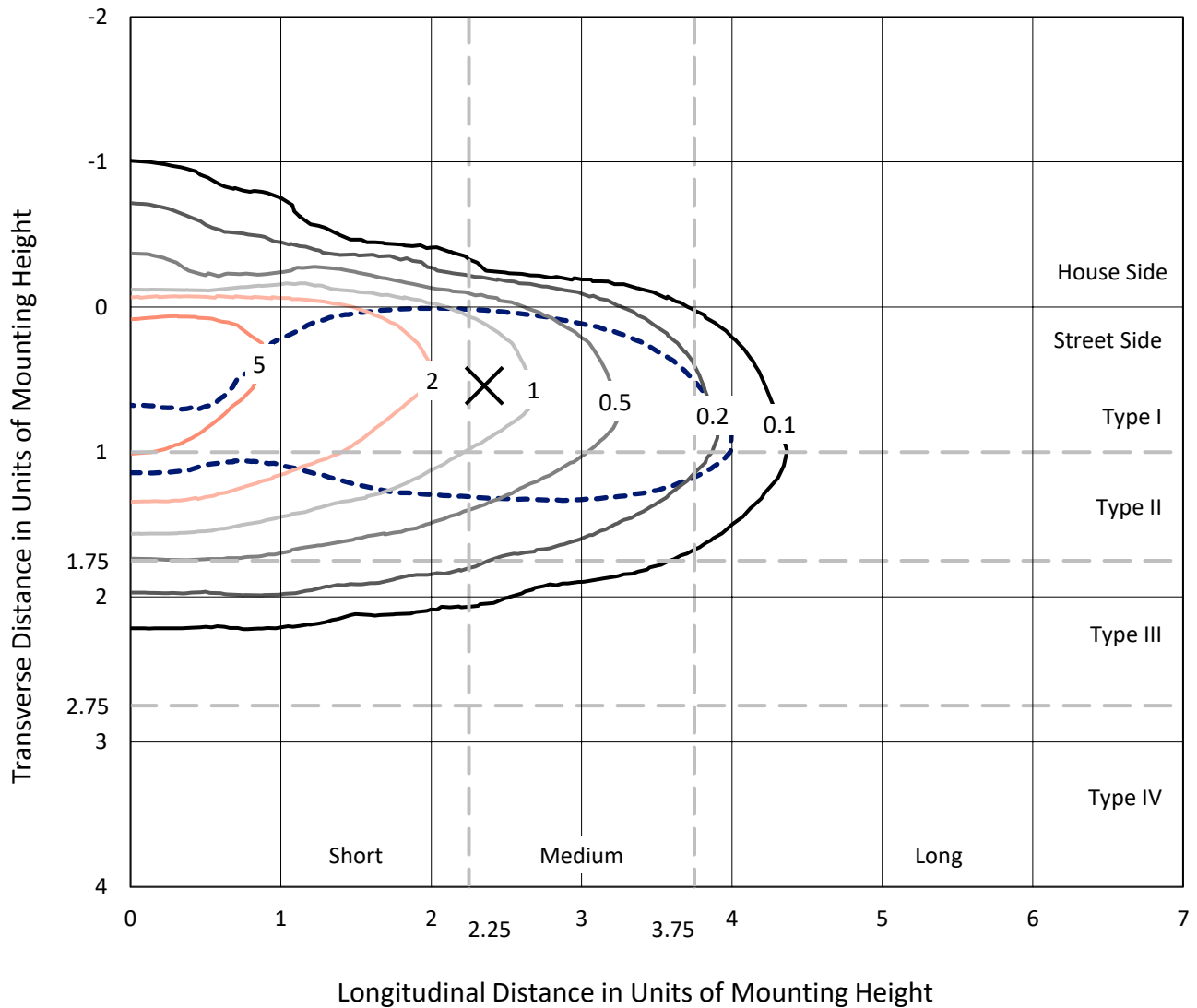
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

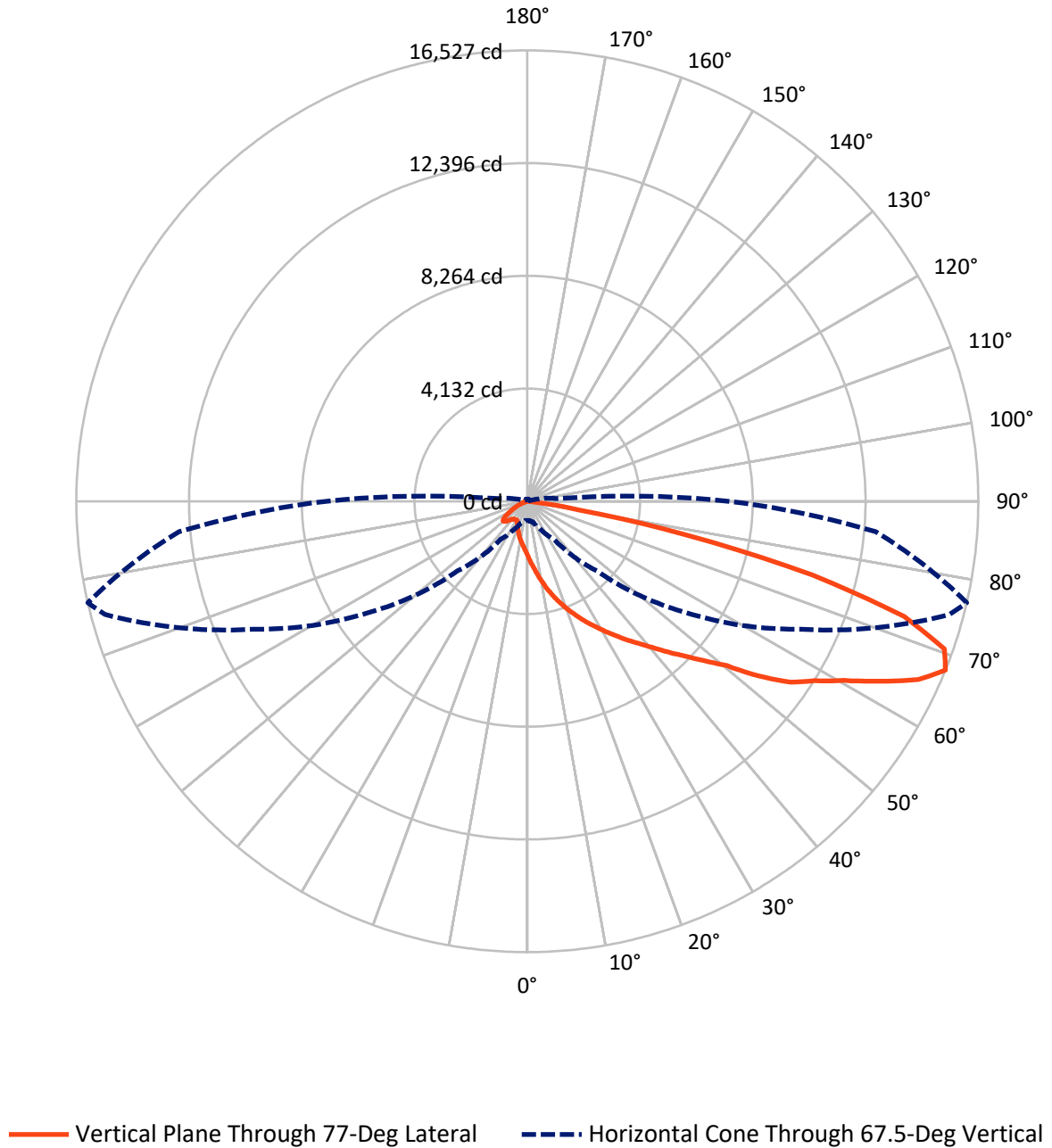
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1268.3	0.0	1268.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	15970.7	0.0	15970.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	17239.0	0.0	17239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.9	1.2
10°-20°	710.5	4.1
20°-30°	1371.1	8.0
30°-40°	2380.4	13.8
40°-50°	3456.1	20.0
50°-60°	3968.9	23.0
60°-70°	3445.8	20.0
70°-80°	1623.0	9.4
80°-90°	80.3	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°	17239.0	100.0
0°-180°	17239.0	100.0

Coefficient of Utilization



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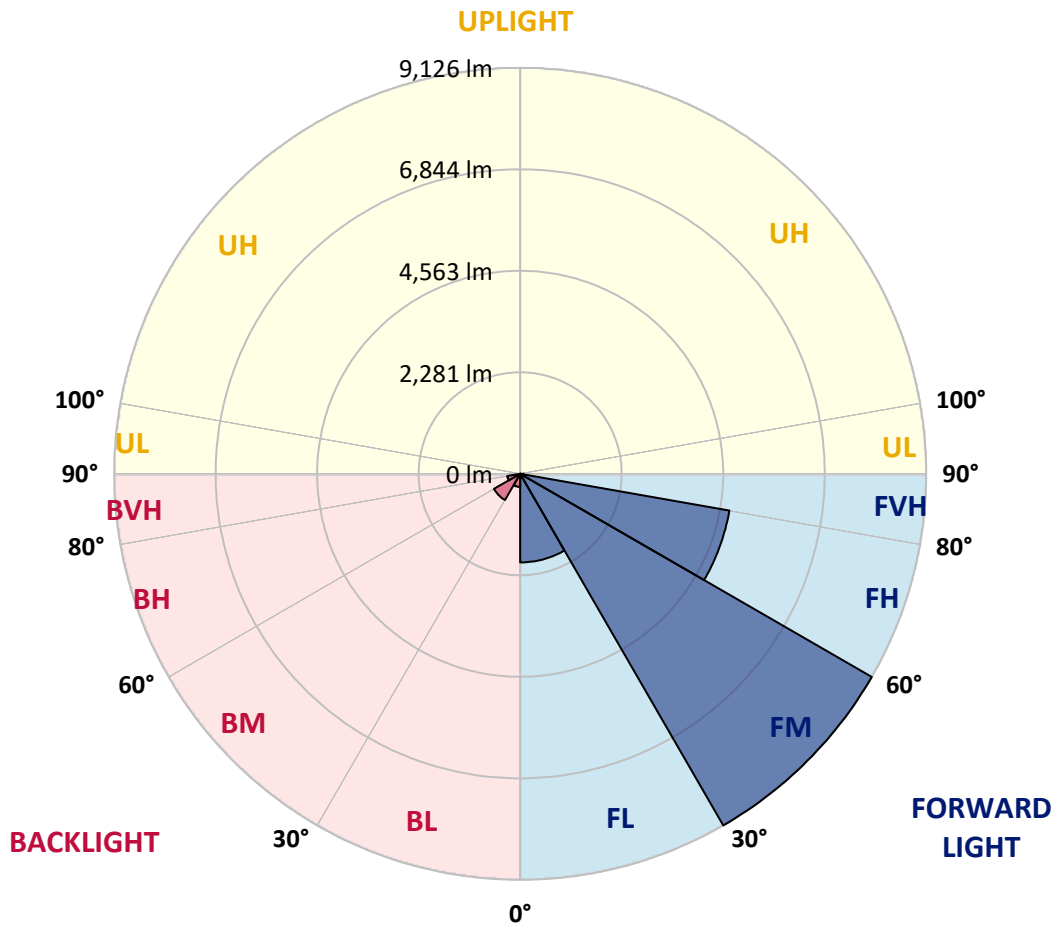
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1990.9	11.5			
FM (30°-60°)	9125.9	52.9			
FH (60°-80°)	4775.2	27.7			G2/5000
FVH (80°-90°)	78.8	0.5			G1/100
BL (0°-30°)	293.6	1.7	B1/500		
BM (30°-60°)	679.6	3.9	B1/1000		
BH (60°-80°)	293.6	1.7	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1987.9	1987.9	1987.9	1987.9	1987.9	1987.9	1987.9	1987.9	1987.9	1987.9
2.5°	2752.2	2769.4	2744.8	2697.6	2627.0	2581.0	2468.6	2362.6	2244.8	2207.4
5°	3354.9	3369.9	3342.1	3290.7	3196.5	3106.6	2958.8	2737.3	2507.1	2433.2
7.5°	3801.3	3809.9	3799.2	3752.1	3662.2	3560.5	3395.6	3133.3	2791.9	2710.5
10°	4122.5	4150.3	4147.1	4128.9	4069.0	3986.5	3811.0	3512.3	3110.9	3006.0
12.5°	4335.5	4366.6	4384.7	4425.4	4422.2	4369.8	4215.6	3899.8	3428.8	3305.7
15°	4397.6	4430.8	4500.4	4594.6	4678.1	4704.8	4596.7	4279.8	3778.8	3621.5
17.5°	4362.3	4413.7	4497.2	4646.0	4829.0	4950.0	4938.2	4647.0	4096.8	3916.9
20°	4440.4	4489.7	4555.0	4680.2	4893.2	5112.7	5200.5	4998.1	4412.6	4224.2
22.5°	4872.9	4864.3	4870.8	4891.1	5018.5	5235.8	5416.7	5317.2	4725.2	4532.5
25°	5558.0	5519.5	5454.2	5343.9	5311.8	5416.7	5605.1	5599.8	5054.9	4848.3
27.5°	6343.8	6337.3	6184.3	5918.8	5768.9	5728.2	5818.1	5874.9	5381.4	5160.9
30°	7096.3	7113.4	6906.8	6611.4	6336.3	6176.8	6095.4	6136.1	5713.2	5498.1
32.5°	7751.5	7769.7	7544.9	7199.1	6858.7	6666.0	6494.7	6394.1	6075.1	5840.6
35°	8304.9	8323.1	8065.1	7682.9	7320.0	7145.6	6951.8	6676.7	6439.0	6220.6
37.5°	8799.5	8794.1	8448.4	8063.0	7706.5	7568.4	7466.7	7024.6	6813.7	6602.8
40°	9091.7	9114.2	8818.7	8393.8	8048.0	7947.4	7940.9	7456.0	7246.2	7041.7
42.5°	9177.4	9217.0	9002.9	8653.9	8340.2	8231.0	8399.1	7922.7	7749.3	7550.2
45°	9023.2	9061.7	8964.3	8722.4	8539.3	8468.7	8793.0	8406.6	8286.7	8089.7
47.5°	8573.6	8621.8	8645.3	8593.9	8591.8	8663.5	9146.3	8916.2	8924.7	8723.5
50°	7703.3	7784.6	8000.9	8182.9	8464.4	8817.7	9489.9	9468.5	9644.1	9470.7
52.5°	6121.1	6236.7	6981.8	7479.6	8112.2	8788.8	9867.8	10354.9	10906.2	10652.5
55°	4918.9	4918.9	5524.8	6456.2	7425.0	8598.2	10032.7	10930.8	11765.8	11705.9
57.5°	4010.1	4058.2	4444.7	5267.9	6430.5	8144.3	10134.4	11292.7	12458.4	12414.5
60°	2475.0	2578.8	3308.9	4121.4	5299.0	7336.1	10070.2	11658.8	13298.8	13334.1
62.5°	1393.8	1432.3	1757.8	2965.3	4120.3	6249.6	9578.8	11863.2	14373.5	14523.4
65°	962.4	981.6	1106.9	1845.5	2856.1	4975.7	8618.6	11735.8	15450.5	15753.4
67.5°	699.0	708.7	786.8	1127.2	1694.6	3607.6	7113.4	11093.5	16021.0	16527.4
70°	537.4	543.8	600.5	740.8	1000.9	2226.6	5166.2	9816.4	15607.8	16212.7
72.5°	436.8	443.2	487.1	548.1	663.7	1316.7	3131.2	7972.0	13783.7	14436.7
75°	368.3	376.8	416.4	456.0	520.3	845.7	1468.7	5551.6	10365.6	10793.8
77.5°	204.5	188.4	338.3	377.9	438.9	535.2	687.3	3267.2	5805.3	5924.1
80°	127.4	131.7	268.7	304.0	337.2	269.8	314.7	1257.8	2012.5	1911.9
82.5°	7.5	17.1	206.6	219.5	231.2	115.6	118.8	427.1	484.9	445.3
85°	0.0	0.0	94.2	76.0	80.3	33.2	34.3	99.6	65.3	70.7
87.5°	0.0	0.0	0.0	2.1	0.0	3.2	6.4	8.6	3.2	4.3
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°
1987.9	0°	1987.9	1987.9	1987.9	1987.9	1987.9	1987.9	1987.9	1987.9	1987.9	1987.9
2089.6	2.5°	2014.7	1939.7	1787.7	1638.9	1518.0	1405.6	1325.3	1249.3	1210.7	1208.6
2224.5	5°	2075.7	1918.3	1614.3	1345.6	1129.4	956.0	843.6	763.3	722.6	708.7
2390.4	7.5°	2161.3	1924.8	1462.3	1088.7	833.9	685.1	620.9	595.2	586.6	577.0
2577.8	10°	2269.5	1939.7	1326.3	876.7	657.3	582.3	556.7	546.0	539.5	533.1
2788.6	12.5°	2390.4	1953.7	1191.5	727.9	578.1	539.5	521.3	508.5	499.9	492.4
3004.9	15°	2508.2	1962.2	1051.2	624.1	537.4	506.3	487.1	473.2	461.4	452.8
3216.8	17.5°	2624.9	1974.0	919.6	562.0	504.2	473.2	453.9	436.8	427.1	417.5
3439.5	20°	2754.4	1971.9	795.4	518.1	471.0	440.0	419.6	403.6	393.9	383.2
3675.0	22.5°	2874.3	1961.1	686.2	480.7	436.8	406.8	384.3	368.3	358.6	350.1
3915.9	25°	3012.4	1952.6	595.2	446.4	404.6	374.7	350.1	335.1	324.4	316.9
4157.8	27.5°	3145.1	1939.7	528.8	415.4	373.6	344.7	321.1	304.0	294.4	289.0
4407.2	30°	3275.7	1936.5	504.2	385.4	345.8	316.9	293.3	277.3	269.8	267.6
4681.3	32.5°	3433.1	1945.1	514.9	374.7	320.1	291.2	268.7	256.9	249.4	249.4
4986.4	35°	3601.1	1942.9	531.0	384.3	303.0	265.5	248.4	240.9	233.4	233.4
5324.6	37.5°	3812.0	1946.2	543.8	400.4	296.5	244.1	234.4	224.8	220.5	220.5
5695.0	40°	4126.8	2052.1	537.4	414.3	294.4	229.1	209.8	206.6	203.4	203.4
6113.6	42.5°	4512.1	2282.3	546.0	415.4	293.3	218.4	192.7	199.1	191.6	190.5
6585.7	45°	4933.9	2533.9	600.5	392.9	292.2	213.0	184.1	191.6	179.8	179.8
7132.7	47.5°	5352.5	2783.3	656.2	360.8	289.0	212.0	176.6	172.3	169.1	170.2
7845.7	50°	5929.5	2986.7	677.6	316.9	281.5	209.8	162.7	163.8	161.6	163.8
8850.9	52.5°	6557.9	3029.5	651.9	267.6	260.1	203.4	153.1	157.4	156.3	158.4
9558.5	55°	6949.7	2983.5	538.5	222.7	226.9	177.7	143.4	152.0	152.0	152.0
10250.0	57.5°	7354.3	2787.6	382.2	180.9	188.4	145.6	134.9	146.7	145.6	144.5
11082.8	60°	7645.5	2470.7	251.6	148.8	149.9	119.9	125.2	138.1	137.0	131.7
11941.4	62.5°	7862.8	2120.7	161.6	126.3	114.5	108.1	114.5	125.2	121.0	109.2
12669.3	65°	7838.2	1635.7	124.2	108.1	94.2	94.2	99.6	109.2	96.3	77.1
12808.5	67.5°	7381.1	1106.9	102.8	91.0	79.2	78.1	82.4	91.0	82.4	65.3
12095.5	70°	6564.3	723.7	82.4	70.7	63.2	57.8	66.4	78.1	69.6	52.5
10297.1	72.5°	5327.9	441.0	62.1	51.4	46.0	37.5	52.5	64.2	55.7	38.5
7160.5	75°	3447.0	224.8	42.8	33.2	24.6	22.5	38.5	48.2	38.5	23.6
3177.2	77.5°	1318.9	94.2	23.6	15.0	12.8	10.7	21.4	28.9	16.1	5.4
615.5	80°	253.7	39.6	11.8	7.5	6.4	4.3	3.2	2.1	0.0	0.0
109.2	82.5°	43.9	12.8	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
21.4	85°	15.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5	87.5°	5.4	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°
1987.9
1206.4
706.5
574.9
531.0
490.3
451.7
416.4
382.2
349.0
315.8
289.0
266.6
249.4
233.4
220.5
203.4
189.5
179.8
170.2
163.8
158.4
152.0
144.5
131.7
107.0
74.9
63.2
50.3
36.4
20.3
4.3
0.0
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