

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: P948938

Luminaire Tested: **GALN-SB3D-830-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948938  
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-SB3D-830-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

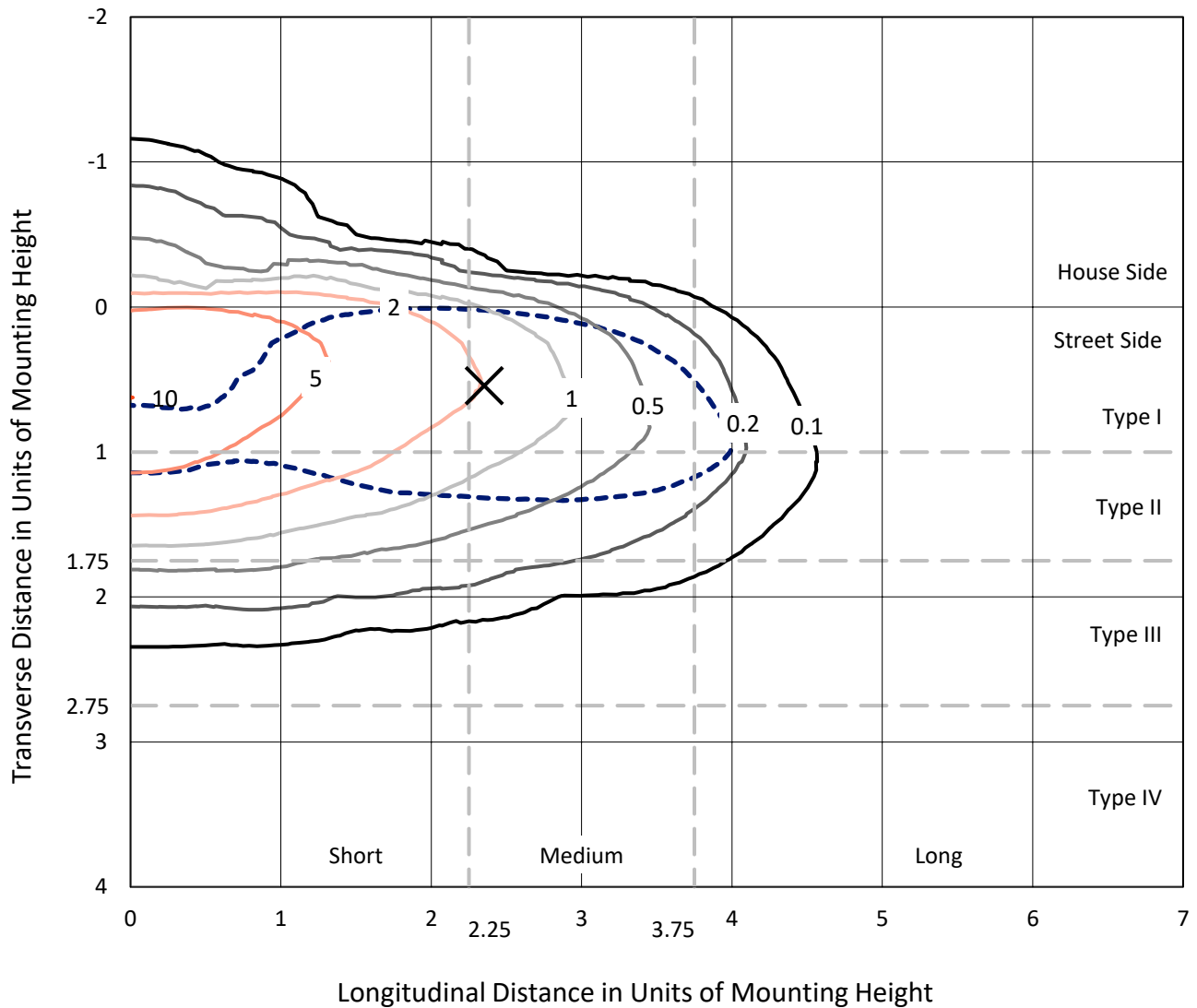
Lumens per Lamp: N/A  
Luminaire Lumens: 23228 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

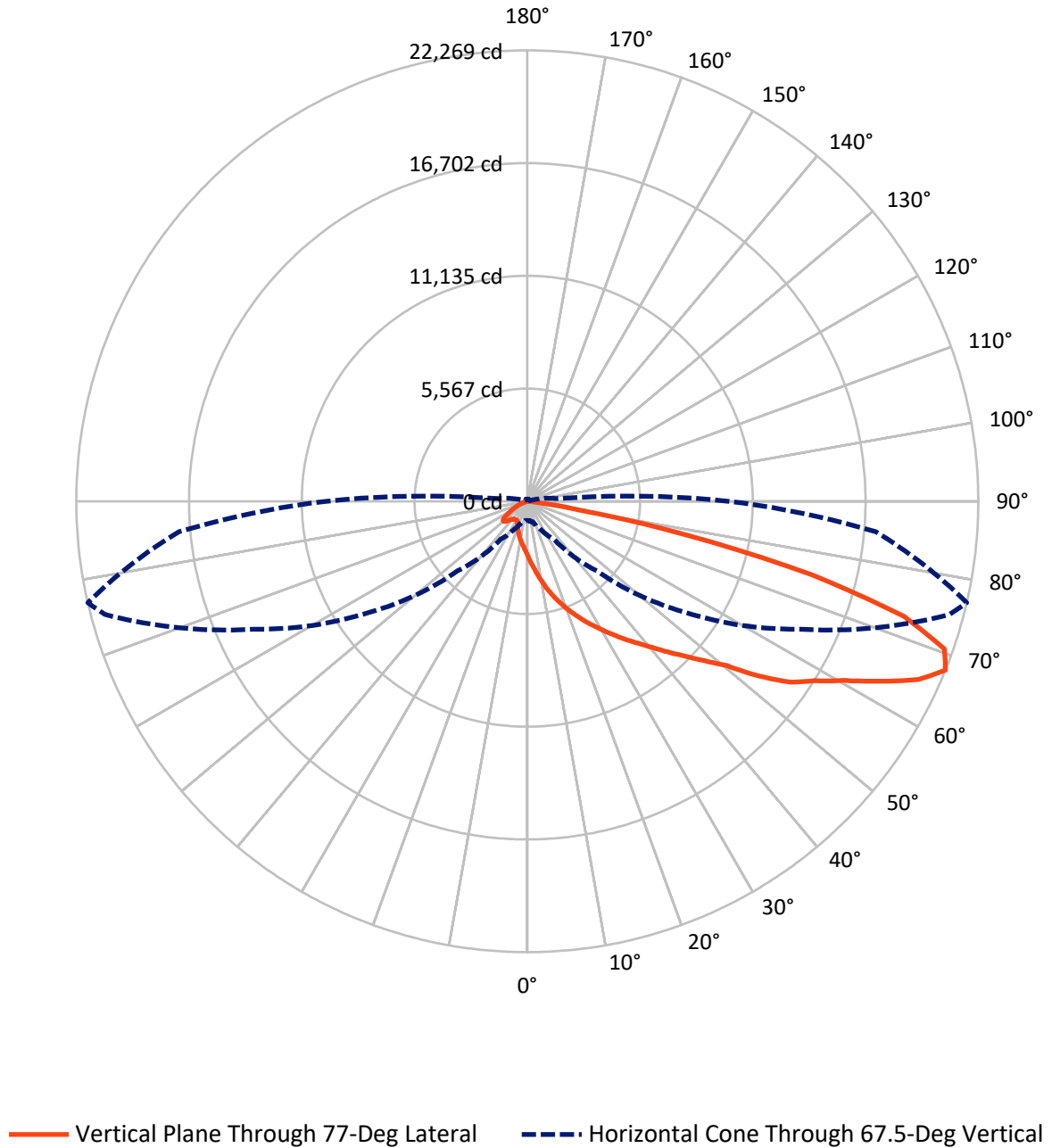
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1708.9	0.0	1708.9
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	21519.1	0.0	21519.1
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	23228.0	0.0	23228.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.4	1.2
10°-20°	957.4	4.1
20°-30°	1847.5	8.0
30°-40°	3207.3	13.8
40°-50°	4656.8	20.0
50°-60°	5347.8	23.0
60°-70°	4642.9	20.0
70°-80°	2186.8	9.4
80°-90°	108.1	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°	23228.0	100.0
0°-180°	23228.0	100.0

**Coefficient of Utilization**



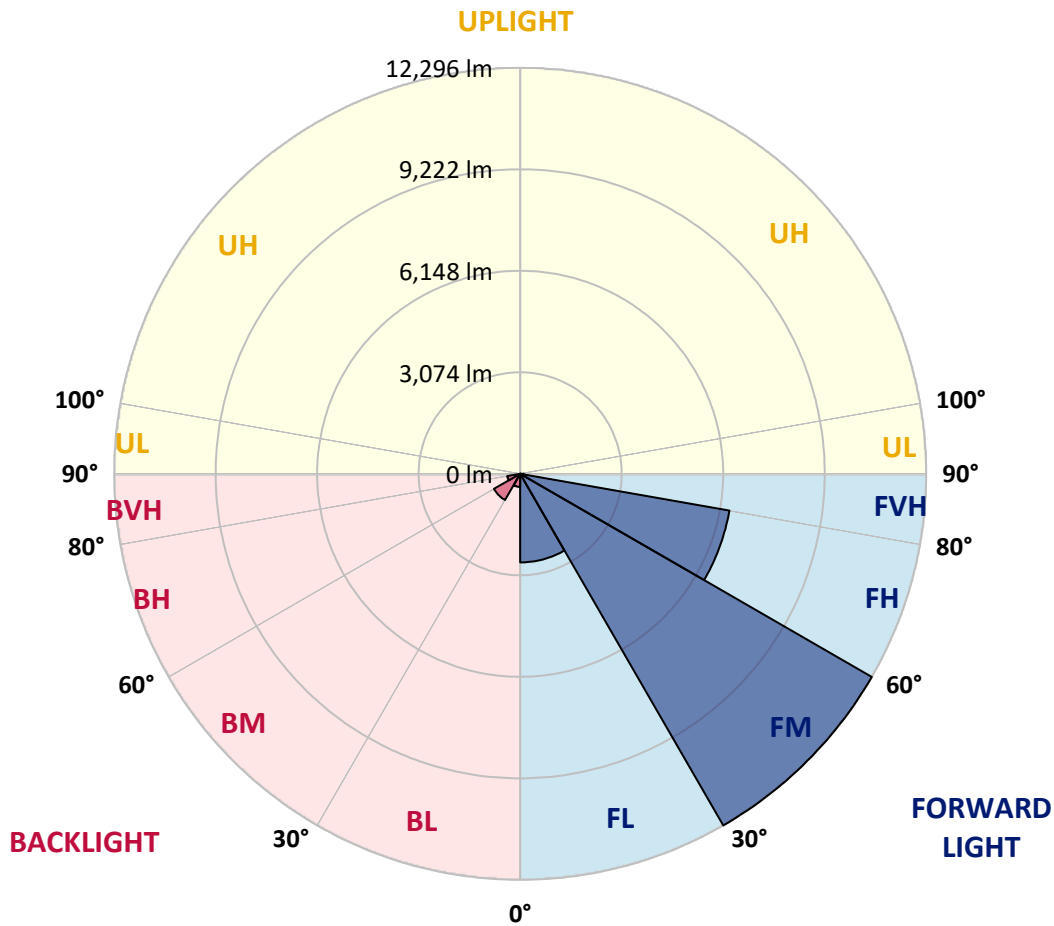
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2682.6	11.5			
FM (30°-60°)	12296.3	52.9			
FH (60°-80°)	6434.1	27.7			G3/7500
FVH (80°-90°)	106.2	0.5			G2/225
BL (0°-30°)	395.6	1.7	B1/500		
BM (30°-60°)	915.6	3.9	B1/1000		
BH (60°-80°)	395.6	1.7	B1/500		G1/500
BVH (80°-90°)	2.0	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-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5
2.5°	3708.4	3731.5	3698.3	3634.8	3539.6	3477.6	3326.2	3183.4	3024.7	2974.2
5°	4520.5	4540.7	4503.2	4433.9	4307.0	4185.8	3986.8	3688.2	3378.1	3278.6
7.5°	5121.9	5133.5	5119.1	5055.6	4934.4	4797.4	4575.3	4221.9	3761.8	3652.1
10°	5554.7	5592.2	5587.8	5563.3	5482.5	5371.5	5134.9	4732.5	4191.6	4050.2
12.5°	5841.7	5883.5	5908.1	5962.9	5958.5	5887.9	5680.2	5254.6	4620.0	4454.1
15°	5925.4	5970.1	6063.8	6190.8	6303.3	6339.3	6193.6	5766.7	5091.7	4879.6
17.5°	5877.8	5947.0	6059.5	6260.0	6506.6	6669.6	6653.8	6261.4	5520.1	5277.7
20°	5983.1	6049.4	6137.4	6306.2	6593.2	6888.9	7007.2	6734.5	5945.6	5691.7
22.5°	6565.8	6554.2	6562.9	6590.3	6762.0	7054.8	7298.5	7164.4	6366.7	6107.1
25°	7488.9	7437.0	7349.0	7200.4	7157.2	7298.5	7552.4	7545.2	6811.0	6532.6
27.5°	8547.6	8539.0	8332.7	7975.0	7773.1	7718.3	7839.4	7915.9	7250.9	6953.8
30°	9561.6	9584.7	9306.3	8908.2	8537.5	8322.6	8213.0	8267.8	7698.1	7408.1
32.5°	10444.4	10468.9	10166.0	9700.1	9241.4	8981.8	8751.0	8615.4	8185.6	7869.7
35°	11190.1	11214.6	10867.0	10352.1	9863.1	9628.0	9366.9	8996.2	8676.0	8381.8
37.5°	11856.5	11849.3	11383.4	10864.1	10383.8	10197.7	10060.7	9465.0	9180.9	8896.7
40°	12250.3	12280.6	11882.5	11309.8	10843.9	10708.3	10699.7	10046.3	9763.6	9488.1
42.5°	12365.7	12419.0	12130.6	11660.3	11237.7	11090.6	11317.0	10675.2	10441.5	10173.2
45°	12158.0	12209.9	12078.6	11752.6	11506.0	11410.8	11847.8	11327.1	11165.6	10900.2
47.5°	11552.2	11617.1	11648.8	11579.6	11576.7	11673.3	12323.8	12013.7	12025.3	11754.1
50°	10379.5	10489.1	10780.5	11025.7	11405.0	11881.0	12786.8	12758.0	12994.5	12760.9
52.5°	8247.6	8403.4	9407.3	10078.0	10930.5	11842.1	13296.0	13952.3	14695.1	14353.3
55°	6627.8	6627.8	7444.2	8699.1	10004.5	11585.3	13518.1	14728.3	15853.4	15772.6
57.5°	5403.2	5468.1	5988.8	7098.0	8664.5	10973.8	13655.2	15215.8	16786.6	16727.5
60°	3334.8	3474.7	4458.4	5553.2	7139.9	9884.7	13568.6	15709.1	17918.9	17966.5
62.5°	1878.0	1929.9	2368.4	3995.4	5551.8	8420.7	12906.6	15984.6	19367.1	19569.0
65°	1296.7	1322.7	1491.4	2486.7	3848.3	6704.3	11612.7	15813.0	20818.1	21226.3
67.5°	941.9	954.9	1060.2	1518.8	2283.3	4860.9	9584.7	14947.6	21586.9	22269.2
70°	724.1	732.7	809.2	998.1	1348.6	3000.2	6961.0	13226.8	21030.1	21845.1
72.5°	588.5	597.2	656.3	738.5	894.3	1774.1	4219.0	10741.5	18572.3	19452.2
75°	496.2	507.7	561.1	614.5	701.0	1139.5	1979.0	7480.3	13966.7	14543.7
77.5°	275.5	253.9	455.8	509.2	591.4	721.2	926.0	4402.2	7822.1	7982.2
80°	171.6	177.4	362.0	409.6	454.4	363.5	424.1	1694.8	2711.7	2576.1
82.5°	10.1	23.1	278.4	295.7	311.6	155.8	160.1	575.5	653.4	600.0
85°	0.0	0.0	126.9	102.4	108.2	44.7	46.2	134.1	88.0	95.2
87.5°	0.0	0.0	0.0	2.9	0.0	4.3	8.7	11.5	4.3	5.8
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°
2678.5	0°	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5
2815.6	2.5°	2714.6	2613.6	2408.8	2208.3	2045.3	1893.9	1785.7	1683.3	1631.4	1628.5
2997.3	5°	2796.8	2584.8	2175.1	1813.1	1521.7	1288.1	1136.6	1028.4	973.6	954.9
3220.9	7.5°	2912.2	2593.4	1970.3	1466.9	1123.6	923.1	836.6	802.0	790.4	777.5
3473.3	10°	3057.9	2613.6	1787.1	1181.3	885.6	784.7	750.0	735.6	727.0	718.3
3757.4	12.5°	3220.9	2632.4	1605.4	980.8	778.9	727.0	702.4	685.1	673.6	663.5
4048.8	15°	3379.5	2643.9	1416.4	840.9	724.1	682.3	656.3	637.5	621.7	610.1
4334.4	17.5°	3536.8	2659.8	1239.0	757.3	679.4	637.5	611.6	588.5	575.5	562.5
4634.4	20°	3711.3	2656.9	1071.7	698.1	634.7	592.8	565.4	543.8	530.8	516.4
4951.7	22.5°	3872.8	2642.5	924.6	647.6	588.5	548.1	517.8	496.2	483.2	471.7
5276.3	25°	4058.9	2630.9	802.0	601.5	545.2	504.8	471.7	451.5	437.0	426.9
5602.3	27.5°	4237.8	2613.6	712.5	559.6	503.4	464.5	432.7	409.6	396.7	389.4
5938.3	30°	4413.7	2609.3	679.4	519.3	465.9	426.9	395.2	373.6	363.5	360.6
6307.6	32.5°	4625.8	2620.8	693.8	504.8	431.3	392.3	362.0	346.2	336.1	336.1
6718.7	35°	4852.2	2617.9	715.4	517.8	408.2	357.7	334.6	324.5	314.4	314.4
7174.5	37.5°	5136.4	2622.3	732.7	539.5	399.5	328.9	315.9	302.9	297.1	297.1
7673.5	40°	5560.4	2765.1	724.1	558.2	396.7	308.7	282.7	278.4	274.1	274.1
8237.5	42.5°	6079.7	3075.2	735.6	559.6	395.2	294.2	259.6	268.3	258.2	256.7
8873.6	45°	6648.0	3414.2	809.2	529.4	393.8	287.0	248.1	258.2	242.3	242.3
9610.7	47.5°	7212.0	3750.2	884.2	486.1	389.4	285.6	238.0	232.2	227.9	229.3
10571.3	50°	7989.4	4024.3	913.0	426.9	379.4	282.7	219.2	220.7	217.8	220.7
11925.7	52.5°	8836.1	4082.0	878.4	360.6	350.5	274.1	206.3	212.0	210.6	213.5
12879.2	55°	9364.0	4020.0	725.5	300.0	305.8	239.4	193.3	204.8	204.8	204.8
13810.9	57.5°	9909.3	3756.0	514.9	243.8	253.9	196.2	181.7	197.6	196.2	194.7
14933.1	60°	10301.6	3329.1	339.0	200.5	201.9	161.5	168.8	186.1	184.6	177.4
16089.9	62.5°	10594.4	2857.4	217.8	170.2	154.3	145.7	154.3	168.8	163.0	147.1
17070.8	65°	10561.2	2204.0	167.3	145.7	126.9	126.9	134.1	147.1	129.8	103.9
17258.3	67.5°	9945.3	1491.4	138.5	122.6	106.7	105.3	111.1	122.6	111.1	88.0
16297.6	70°	8844.8	975.1	111.1	95.2	85.1	77.9	89.4	105.3	93.8	70.7
13874.4	72.5°	7178.8	594.3	83.7	69.2	62.0	50.5	70.7	86.5	75.0	51.9
9648.2	75°	4644.5	302.9	57.7	44.7	33.2	30.3	51.9	64.9	51.9	31.7
4281.0	77.5°	1777.0	126.9	31.7	20.2	17.3	14.4	28.8	38.9	21.6	7.2
829.4	80°	341.8	53.4	15.9	10.1	8.7	5.8	4.3	2.9	0.0	0.0
147.1	82.5°	59.1	17.3	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
28.8	85°	20.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.1	87.5°	7.2	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°
2678.5
1625.6
952.0
774.6
715.4
660.6
608.7
561.1
514.9
470.2
425.5
389.4
359.2
336.1
314.4
297.1
274.1
255.3
242.3
229.3
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