

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: P955154

Luminaire Tested: **GALN-SB8A-940-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955154  
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-SB8A-940-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

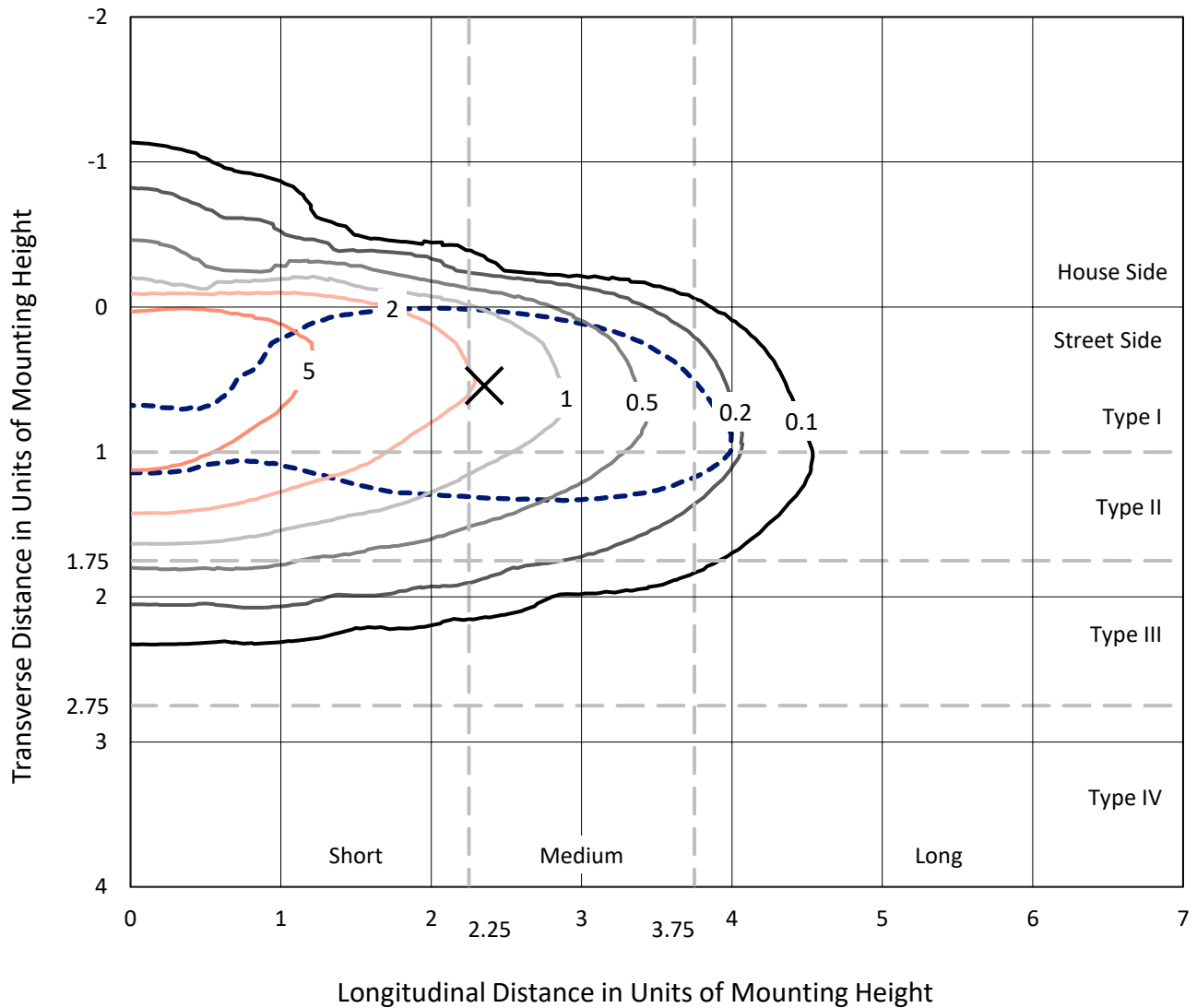
Lumens per Lamp: N/A  
Luminaire Lumens: 22255 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

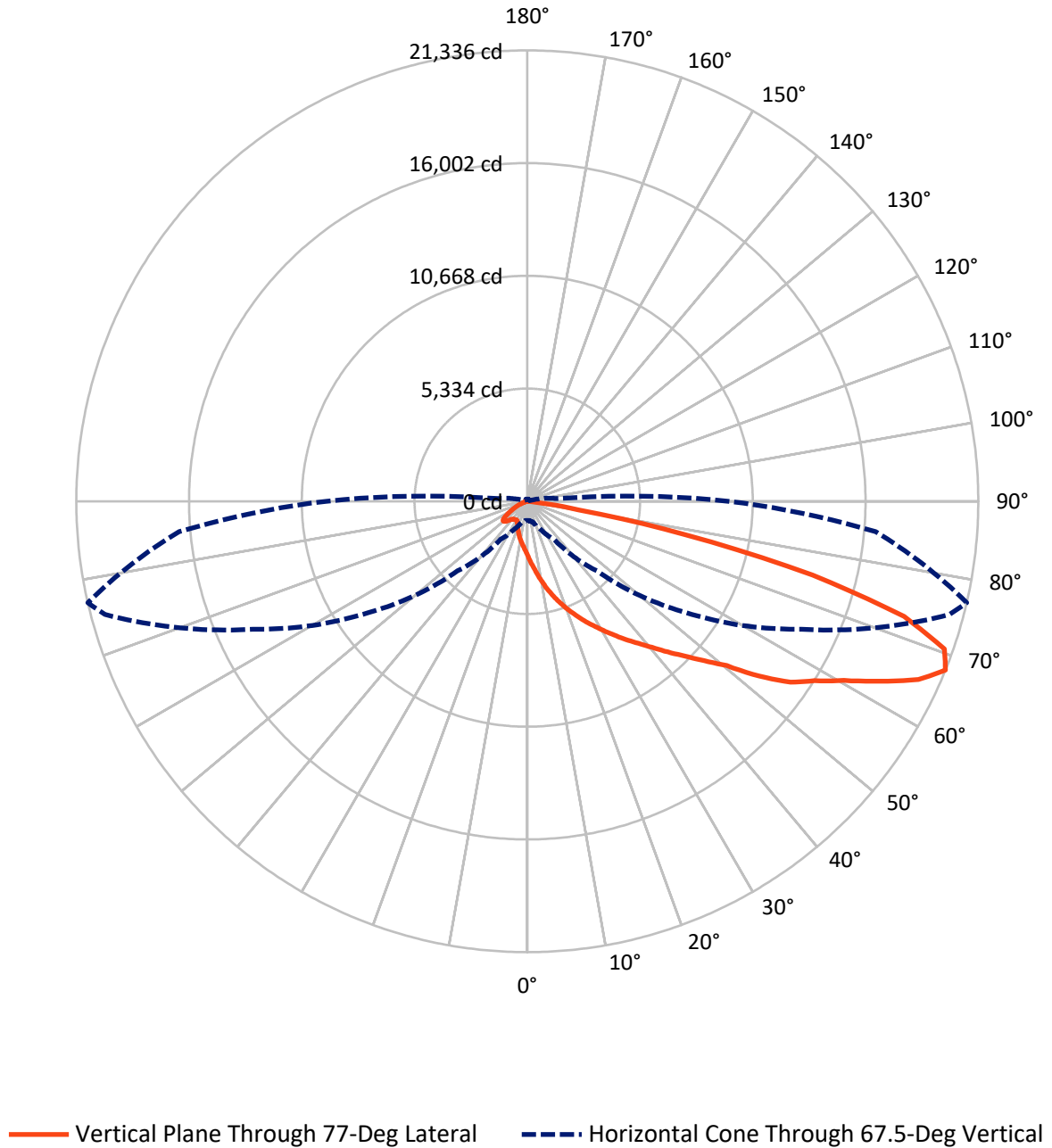
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	1637.3	0.0	1637.3
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	20617.7	0.0	20617.7
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	22255.0	0.0	22255.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.9	1.2
10°-20°	917.3	4.1
20°-30°	1770.1	8.0
30°-40°	3073.0	13.8
40°-50°	4461.8	20.0
50°-60°	5123.8	23.0
60°-70°	4448.4	20.0
70°-80°	2095.2	9.4
80°-90°	103.6	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°	22255.0	100.0
0°-180°	22255.0	100.0

**Coefficient of Utilization**



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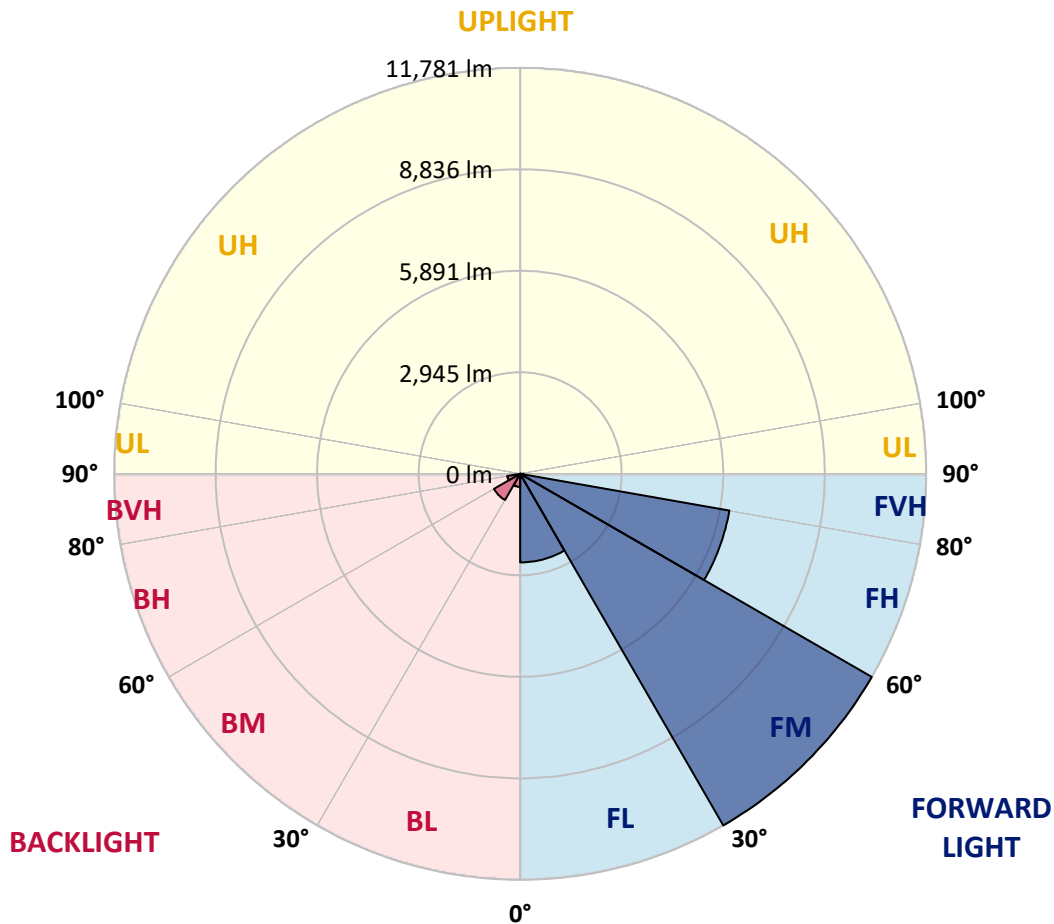
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2570.2	11.5			
FM (30°-60°)	11781.2	52.9			
FH (60°-80°)	6164.6	27.7			G3/7500
FVH (80°-90°)	101.7	0.5			G2/225
BL (0°-30°)	379.1	1.7	B1/500		
BM (30°-60°)	877.3	3.9	B1/1000		
BH (60°-80°)	379.1	1.7	B1/500		G1/500
BVH (80°-90°)	1.9	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°	2566.3	2566.3	2566.3	2566.3	2566.3	2566.3	2566.3	2566.3	2566.3	2566.3
2.5°	3553.1	3575.2	3543.4	3482.6	3391.4	3331.9	3186.8	3050.0	2898.0	2849.6
5°	4331.1	4350.5	4314.5	4248.2	4126.6	4010.5	3819.8	3533.7	3236.6	3141.2
7.5°	4907.4	4918.5	4904.6	4843.8	4727.7	4596.5	4383.6	4045.0	3604.2	3499.2
10°	5322.0	5357.9	5353.8	5330.3	5252.9	5146.5	4919.8	4534.3	4016.0	3880.6
12.5°	5597.0	5637.1	5660.6	5713.1	5708.9	5641.2	5442.2	5034.5	4426.5	4267.5
15°	5677.2	5720.0	5809.8	5931.4	6039.2	6073.8	5934.2	5525.1	4878.4	4675.2
17.5°	5631.6	5697.9	5805.7	5997.8	6234.1	6390.3	6375.1	5999.2	5288.8	5056.6
20°	5732.4	5796.0	5880.3	6042.0	6317.0	6600.3	6713.6	6452.4	5696.5	5453.3
22.5°	6290.8	6279.7	6288.0	6314.2	6478.7	6759.2	6992.8	6864.3	6100.0	5851.3
25°	7175.2	7125.5	7041.2	6898.8	6857.4	6992.8	7236.0	7229.1	6525.7	6259.0
27.5°	8189.6	8181.3	7983.7	7640.9	7447.5	7395.0	7511.0	7584.3	6947.2	6662.5
30°	9161.1	9183.2	8916.5	8535.1	8179.9	7974.0	7869.0	7921.5	7375.6	7097.8
32.5°	10006.9	10030.4	9740.2	9293.8	8854.3	8605.6	8384.4	8254.5	7842.7	7540.1
35°	10721.4	10744.9	10411.8	9918.4	9449.9	9224.7	8974.5	8619.4	8312.6	8030.7
37.5°	11359.8	11352.9	10906.6	10409.0	9948.8	9770.6	9639.3	9068.5	8796.3	8524.0
40°	11737.1	11766.1	11384.7	10836.1	10389.7	10259.8	10251.5	9625.5	9354.6	9090.6
42.5°	11847.7	11898.8	11622.4	11171.9	10767.0	10626.0	10843.0	10228.0	10004.1	9747.1
45°	11648.7	11698.4	11572.7	11260.3	11024.0	10932.8	11351.5	10852.7	10697.9	10443.6
47.5°	11068.2	11130.4	11160.8	11094.5	11091.7	11184.3	11807.6	11510.5	11521.5	11261.7
50°	9944.7	10049.7	10328.9	10563.8	10927.3	11383.3	12251.2	12223.6	12450.2	12226.3
52.5°	7902.1	8051.4	9013.2	9655.9	10472.6	11346.0	12739.1	13367.8	14079.6	13752.0
55°	6350.2	6350.2	7132.4	8334.7	9585.4	11100.0	12951.9	14111.4	15189.3	15111.9
57.5°	5176.9	5239.1	5738.0	6800.7	8301.5	10514.1	13083.2	14578.5	16083.4	16026.8
60°	3195.1	3329.2	4271.7	5320.6	6840.8	9470.7	13000.2	15051.1	17168.3	17213.9
62.5°	1799.3	1849.1	2269.2	3828.1	5319.2	8068.0	12365.9	15315.1	18555.8	18749.3
65°	1242.4	1267.3	1429.0	2382.5	3687.1	6423.4	11126.3	15150.6	19946.1	20337.2
67.5°	902.4	914.9	1015.8	1455.2	2187.7	4657.3	9183.2	14321.4	20682.6	21336.3
70°	693.8	702.0	775.3	956.3	1292.1	2874.5	6669.4	12672.7	20149.2	20930.0
72.5°	563.8	572.1	628.8	707.6	856.8	1699.8	4042.3	10291.6	17794.3	18637.3
75°	475.4	486.5	537.6	588.7	671.6	1091.8	1896.1	7166.9	13381.7	13934.5
77.5°	264.0	243.2	436.7	487.8	566.6	691.0	887.2	4217.8	7494.5	7647.9
80°	164.5	170.0	346.9	392.5	435.3	348.3	406.3	1623.8	2598.1	2468.2
82.5°	9.7	22.1	266.7	283.3	298.5	149.3	153.4	551.4	626.0	574.9
85°	0.0	0.0	121.6	98.1	103.6	42.8	44.2	128.5	84.3	91.2
87.5°	0.0	0.0	0.0	2.8	0.0	4.1	8.3	11.1	4.1	5.5
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°
2566.3	0°	2566.3	2566.3	2566.3	2566.3	2566.3	2566.3	2566.3	2566.3	2566.3	2566.3
2697.6	2.5°	2600.9	2504.1	2307.9	2115.8	1959.6	1814.5	1710.9	1612.8	1563.0	1560.3
2871.7	5°	2679.7	2476.5	2084.0	1737.1	1458.0	1234.1	1089.0	985.3	932.8	914.9
3086.0	7.5°	2790.2	2484.8	1887.8	1405.5	1076.6	884.5	801.5	768.4	757.3	744.9
3327.8	10°	2929.8	2504.1	1712.3	1131.8	848.5	751.8	718.6	704.8	696.5	688.2
3600.0	12.5°	3086.0	2522.1	1538.1	939.7	746.3	696.5	673.0	656.4	645.4	635.7
3879.2	15°	3238.0	2533.2	1357.1	805.7	693.8	653.7	628.8	610.8	595.6	584.6
4152.8	17.5°	3388.6	2548.4	1187.1	725.5	650.9	610.8	586.0	563.8	551.4	539.0
4440.3	20°	3555.8	2545.6	1026.8	668.9	608.1	568.0	541.7	521.0	508.6	494.7
4744.3	22.5°	3710.6	2531.8	885.8	620.5	563.8	525.2	496.1	475.4	463.0	451.9
5055.3	25°	3888.9	2520.7	768.4	576.3	522.4	483.7	451.9	432.6	418.7	409.1
5367.6	27.5°	4060.2	2504.1	682.7	536.2	482.3	445.0	414.6	392.5	380.0	373.1
5689.6	30°	4228.8	2500.0	650.9	497.5	446.4	409.1	378.7	357.9	348.3	345.5
6043.4	32.5°	4432.0	2511.0	664.7	483.7	413.2	375.9	346.9	331.7	322.0	322.0
6437.2	35°	4649.0	2508.3	685.5	496.1	391.1	342.7	320.6	310.9	301.3	301.3
6873.9	37.5°	4921.2	2512.4	702.0	516.9	382.8	315.1	302.7	290.2	284.7	284.7
7352.1	40°	5327.5	2649.2	693.8	534.8	380.0	295.7	270.9	266.7	262.6	262.6
7892.5	42.5°	5825.0	2946.4	704.8	536.2	378.7	281.9	248.8	257.0	247.4	246.0
8501.9	45°	6369.5	3271.1	775.3	507.2	377.3	275.0	237.7	247.4	232.2	232.2
9208.1	47.5°	6909.9	3593.1	847.2	465.7	373.1	273.6	228.0	222.5	218.4	219.7
10128.5	50°	7654.8	3855.7	874.8	409.1	363.5	270.9	210.1	211.4	208.7	211.4
11426.2	52.5°	8466.0	3911.0	841.6	345.5	335.8	262.6	197.6	203.2	201.8	204.5
12339.7	55°	8971.8	3851.6	695.1	287.5	293.0	229.4	185.2	196.2	196.2	196.2
13232.4	57.5°	9494.2	3598.7	493.4	233.6	243.2	187.9	174.1	189.3	187.9	186.6
14307.6	60°	9870.1	3189.6	324.8	192.1	193.5	154.8	161.7	178.3	176.9	170.0
15415.9	62.5°	10150.6	2737.7	208.7	163.1	147.9	139.6	147.9	161.7	156.2	141.0
16355.7	65°	10118.8	2111.7	160.3	139.6	121.6	121.6	128.5	141.0	124.4	99.5
16535.3	67.5°	9528.7	1429.0	132.7	117.5	102.3	100.9	106.4	117.5	106.4	84.3
15614.9	70°	8474.3	934.2	106.4	91.2	81.5	74.6	85.7	100.9	89.8	67.7
13293.2	72.5°	6878.1	569.4	80.2	66.3	59.4	48.4	67.7	82.9	71.9	49.8
9244.0	75°	4450.0	290.2	55.3	42.8	31.8	29.0	49.8	62.2	49.8	30.4
4101.7	77.5°	1702.6	121.6	30.4	19.3	16.6	13.8	27.6	37.3	20.7	6.9
794.6	80°	327.5	51.1	15.2	9.7	8.3	5.5	4.1	2.8	0.0	0.0
141.0	82.5°	56.7	16.6	5.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0
27.6	85°	19.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.7	87.5°	6.9	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°
2566.3
1557.5
912.1
742.1
685.5
632.9
583.2
537.6
493.4
450.5
407.7
373.1
344.1
322.0
301.3
284.7
262.6
244.6
232.2
219.7
211.4
204.5
196.2
186.6
170.0
138.2
96.7
81.5
65.0
47.0
26.3
5.5
0.0
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