

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: P950156

Luminaire Tested: **GALN-SB4C-940-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950156  
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-SB4C-940-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

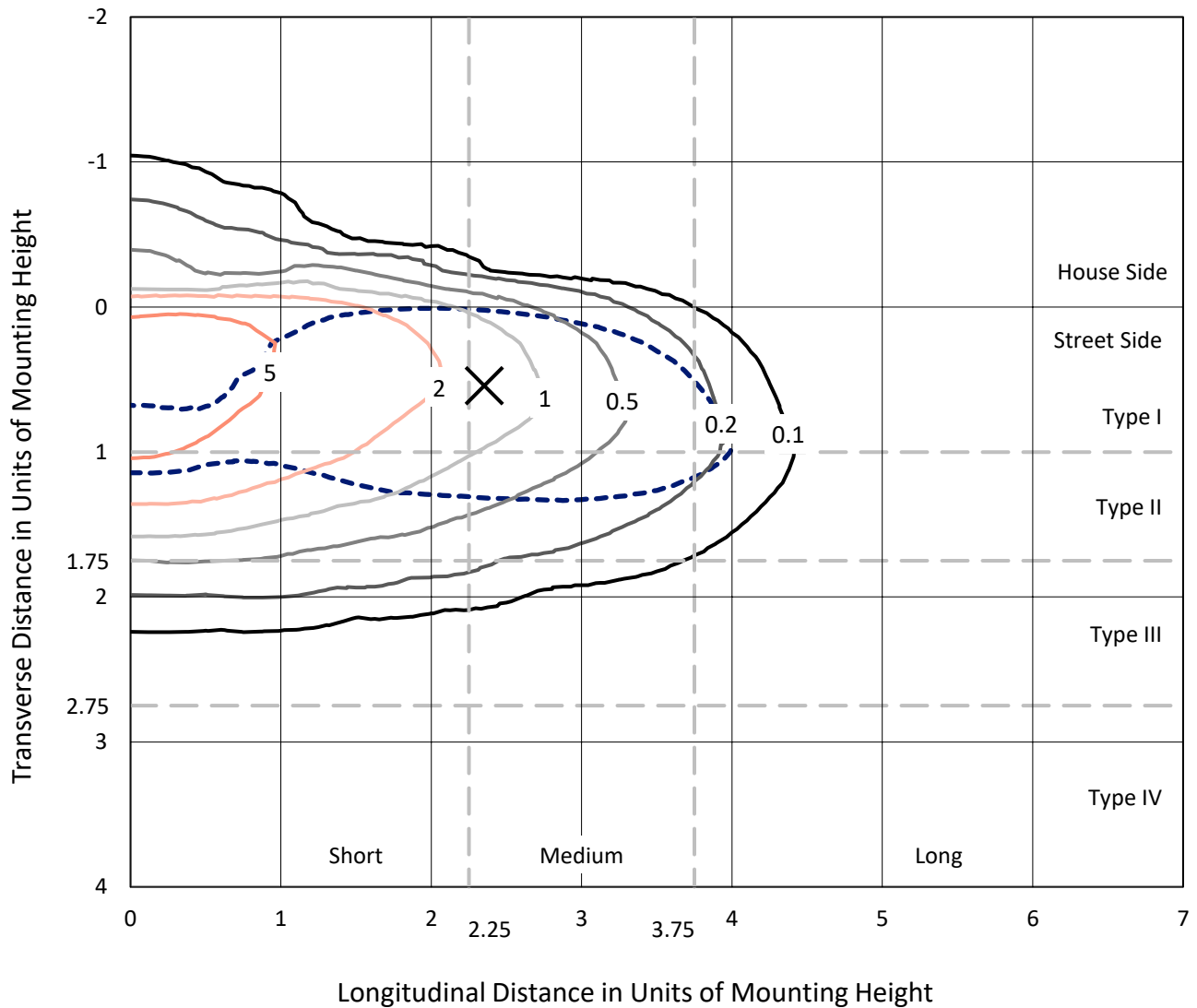
Lumens per Lamp: N/A  
Luminaire Lumens: 18415 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

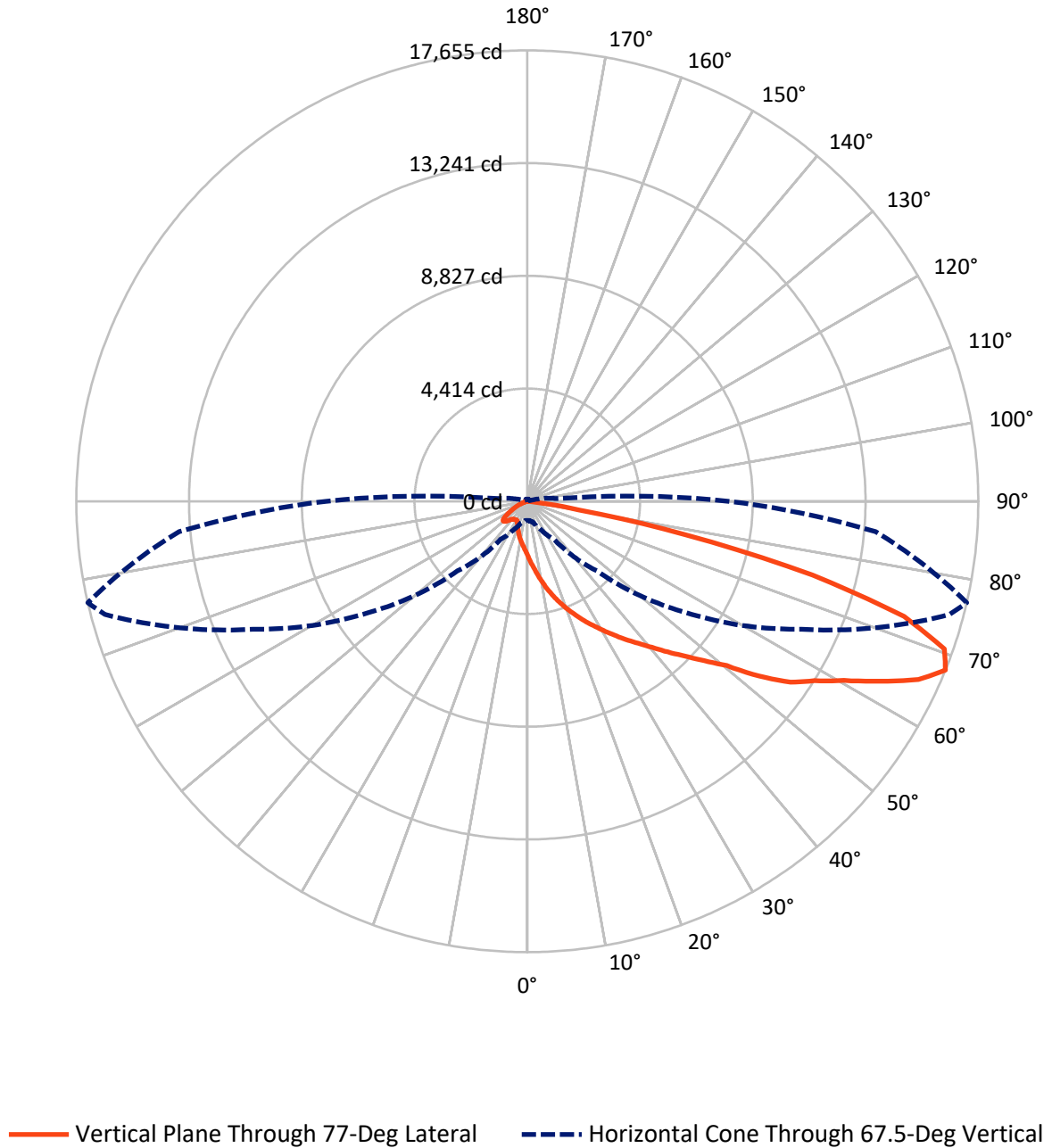
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	1354.8	0.0	1354.8
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	17060.2	0.0	17060.2
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	18415.0	0.0	18415.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.7	1.2
10°-20°	759.0	4.1
20°-30°	1464.7	8.0
30°-40°	2542.7	13.8
40°-50°	3691.9	20.0
50°-60°	4239.7	23.0
60°-70°	3680.8	20.0
70°-80°	1733.7	9.4
80°-90°	85.7	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°	18415.0	100.0
0°-180°	18415.0	100.0

**Coefficient of Utilization**



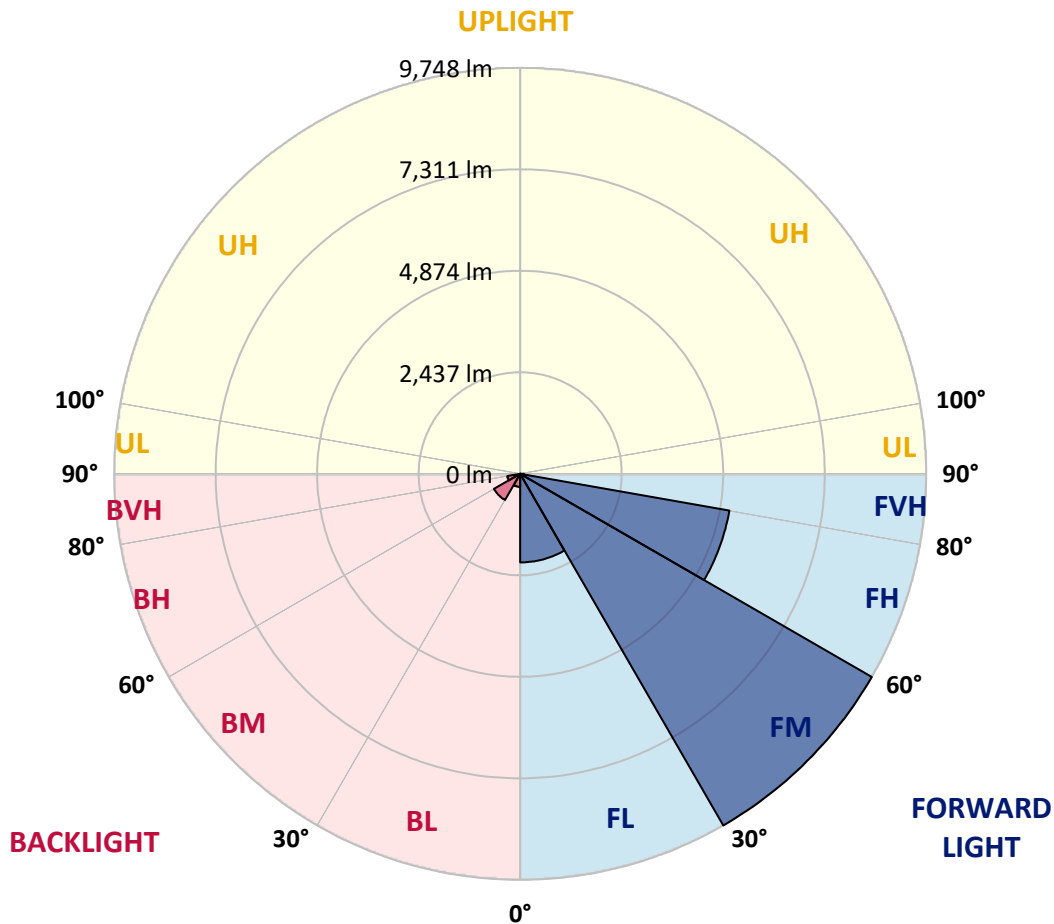
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2126.7	11.5			
FM (30°-60°)	9748.4	52.9			
FH (60°-80°)	5100.9	27.7			G3/7500
FVH (80°-90°)	84.2	0.5			G1/100
BL (0°-30°)	313.7	1.7	B1/500		
BM (30°-60°)	725.9	3.9	B1/1000		
BH (60°-80°)	313.6	1.7	B1/500		G1/500
BVH (80°-90°)	1.6	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°	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5
2.5°	2940.0	2958.3	2932.0	2881.7	2806.2	2757.0	2637.0	2523.8	2398.0	2357.9	
5°	3583.8	3599.8	3570.1	3515.2	3414.6	3318.5	3160.7	2924.0	2678.1	2599.2	
7.5°	4060.6	4069.8	4058.4	4008.0	3912.0	3803.4	3627.3	3347.1	2982.3	2895.4	
10°	4403.7	4433.4	4430.0	4410.6	4346.5	4258.5	4070.9	3751.9	3323.1	3211.0	
12.5°	4631.3	4664.4	4683.9	4727.3	4723.9	4667.9	4503.2	4165.9	3662.7	3531.2	
15°	4697.6	4733.0	4807.4	4908.0	4997.2	5025.8	4910.3	4571.8	4036.6	3868.5	
17.5°	4659.9	4714.7	4803.9	4962.9	5158.4	5287.6	5275.1	4964.0	4376.3	4184.1	
20°	4743.3	4795.9	4865.7	4999.5	5227.0	5461.5	5555.2	5339.1	4713.6	4512.3	
22.5°	5205.3	5196.2	5203.0	5224.8	5360.8	5593.0	5786.2	5679.9	5047.5	4841.7	
25°	5937.2	5896.0	5826.2	5708.5	5674.2	5786.2	5987.5	5981.8	5399.7	5179.0	
27.5°	6776.5	6769.6	6606.1	6322.5	6162.4	6119.0	6215.0	6275.6	5748.5	5512.9	
30°	7580.4	7598.7	7378.0	7062.4	6768.5	6598.1	6511.2	6554.7	6103.0	5873.1	
32.5°	8280.2	8299.7	8059.5	7690.2	7326.5	7120.7	6937.7	6830.3	6489.5	6239.1	
35°	8871.4	8890.9	8615.3	8207.1	7819.4	7633.0	7426.0	7132.1	6878.3	6645.0	
37.5°	9399.8	9394.0	9024.7	8613.0	8232.2	8084.7	7976.1	7503.8	7278.5	7053.2	
40°	9711.9	9735.9	9420.3	8966.4	8597.0	8489.5	8482.6	7964.6	7740.5	7522.1	
42.5°	9803.4	9845.7	9617.0	9244.2	8909.2	8792.5	8972.1	8463.2	8278.0	8065.3	
45°	9638.7	9679.9	9575.9	9317.4	9121.9	9046.4	9392.9	8980.1	8852.0	8641.6	
47.5°	9158.5	9209.9	9235.1	9180.2	9177.9	9254.5	9770.3	9524.4	9533.5	9318.6	
50°	8228.8	8315.7	8546.7	8741.1	9041.8	9419.2	10137.3	10114.5	10302.0	10116.7	
52.5°	6538.7	6662.2	7458.0	7989.8	8665.6	9388.3	10541.0	11061.3	11650.2	11379.2	
55°	5254.5	5254.5	5901.7	6896.6	7931.5	9184.8	10717.1	11676.5	12568.4	12504.4	
57.5°	4283.6	4335.1	4747.9	5627.3	6869.1	8699.9	10825.7	12063.0	13308.3	13261.4	
60°	2643.8	2754.7	3534.6	4402.6	5660.4	7836.6	10757.1	12454.1	14206.0	14243.7	
62.5°	1488.9	1530.0	1877.7	3167.6	4401.4	6675.9	10232.2	12672.5	15354.1	15514.2	
65°	1028.0	1048.6	1182.4	1971.4	3050.9	5315.1	9206.5	12536.4	16504.5	16828.1	
67.5°	746.7	757.0	840.5	1204.1	1810.2	3853.7	7598.7	11850.3	17113.9	17654.8	
70°	574.0	580.9	641.5	791.3	1069.2	2378.5	5518.6	10486.1	16672.5	17318.6	
72.5°	466.6	473.4	520.3	585.5	709.0	1406.5	3344.8	8515.8	14724.0	15421.5	
75°	393.4	402.5	444.8	487.1	555.8	903.4	1568.9	5930.3	11072.7	11530.1	
77.5°	218.4	201.3	361.4	403.7	468.8	571.8	734.1	3490.0	6201.3	6328.3	
80°	136.1	140.7	287.0	324.8	360.2	288.2	336.2	1343.6	2149.8	2042.3	
82.5°	8.0	18.3	220.7	234.4	247.0	123.5	126.9	456.3	518.0	475.7	
85°	0.0	0.0	100.6	81.2	85.8	35.4	36.6	106.3	69.8	75.5	
87.5°	0.0	0.0	0.0	2.3	0.0	3.4	6.9	9.1	3.4	4.6	
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°
2123.5	0°	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5
2232.2	2.5°	2152.1	2072.1	1909.7	1750.7	1621.5	1501.4	1415.7	1334.5	1293.3	1291.0
2376.2	5°	2217.3	2049.2	1724.4	1437.4	1206.4	1021.2	901.1	815.3	771.9	757.0
2553.5	7.5°	2308.8	2056.1	1562.1	1163.0	890.8	731.9	663.2	635.8	626.7	616.4
2753.6	10°	2424.3	2072.1	1416.8	936.5	702.1	622.1	594.6	583.2	576.3	569.5
2978.9	12.5°	2553.5	2086.9	1272.7	777.6	617.5	576.3	556.9	543.2	534.0	526.0
3209.9	15°	2679.3	2096.1	1122.9	666.7	574.0	540.9	520.3	505.4	492.9	483.7
3436.3	17.5°	2803.9	2108.7	982.3	600.3	538.6	505.4	484.9	466.6	456.3	446.0
3674.1	20°	2942.3	2106.4	849.6	553.5	503.1	470.0	448.3	431.1	420.8	409.4
3925.7	22.5°	3070.4	2094.9	733.0	513.4	466.6	434.5	410.5	393.4	383.1	373.9
4183.0	25°	3217.9	2085.8	635.8	476.8	432.3	400.2	373.9	357.9	346.5	338.5
4441.4	27.5°	3359.7	2072.1	564.9	443.7	399.1	368.2	343.1	324.8	314.5	308.8
4707.9	30°	3499.2	2068.6	538.6	411.7	369.4	338.5	313.3	296.2	288.2	285.9
5000.6	32.5°	3667.3	2077.8	550.0	400.2	341.9	311.0	287.0	274.4	266.4	266.4
5326.5	35°	3846.8	2075.5	567.2	410.5	323.6	283.6	265.3	257.3	249.3	249.3
5687.9	37.5°	4072.1	2078.9	580.9	427.7	316.8	260.7	250.4	240.1	235.6	235.6
6083.5	40°	4408.3	2192.1	574.0	442.5	314.5	244.7	224.1	220.7	217.3	217.3
6530.7	42.5°	4819.9	2438.0	583.2	443.7	313.3	233.3	205.8	212.7	204.7	203.5
7034.9	45°	5270.5	2706.7	641.5	419.7	312.2	227.6	196.7	204.7	192.1	192.1
7619.3	47.5°	5717.6	2973.2	701.0	385.4	308.8	226.4	188.7	184.1	180.7	181.8
8380.9	50°	6334.0	3190.4	723.8	338.5	300.7	224.1	173.8	175.0	172.7	175.0
9454.6	52.5°	7005.2	3236.2	696.4	285.9	277.9	217.3	163.5	168.1	167.0	169.2
10210.5	55°	7423.7	3187.0	575.2	237.9	242.4	189.8	153.2	162.4	162.4	162.4
10949.2	57.5°	7856.0	2977.7	408.2	193.3	201.3	155.5	144.1	156.7	155.5	154.4
11838.9	60°	8167.0	2639.2	268.7	158.9	160.1	128.1	133.8	147.5	146.4	140.7
12756.0	62.5°	8399.2	2265.3	172.7	134.9	122.4	115.5	122.4	133.8	129.2	116.6
13533.6	65°	8372.9	1747.3	132.6	115.5	100.6	100.6	106.3	116.6	102.9	82.3
13682.2	67.5°	7884.6	1182.4	109.8	97.2	84.6	83.5	88.1	97.2	88.1	69.8
12920.7	70°	7012.1	773.0	88.1	75.5	67.5	61.8	70.9	83.5	74.3	56.0
10999.5	72.5°	5691.3	471.1	66.3	54.9	49.2	40.0	56.0	68.6	59.5	41.2
7649.0	75°	3682.1	240.1	45.7	35.4	26.3	24.0	41.2	51.5	41.2	25.2
3394.0	77.5°	1408.8	100.6	25.2	16.0	13.7	11.4	22.9	30.9	17.2	5.7
657.5	80°	271.0	42.3	12.6	8.0	6.9	4.6	3.4	2.3	0.0	0.0
116.6	82.5°	46.9	13.7	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
22.9	85°	16.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.0	87.5°	5.7	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°
2123.5
1288.7
754.7
614.1
567.2
523.7
482.6
444.8
408.2
372.8
337.3
308.8
284.7
266.4
249.3
235.6
217.3
202.4
192.1
181.8
175.0
169.2
162.4
154.4
140.7
114.4
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