

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: P950450

Luminaire Tested: **GALN-SB4D-927-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950450  
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-SB4D-927-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

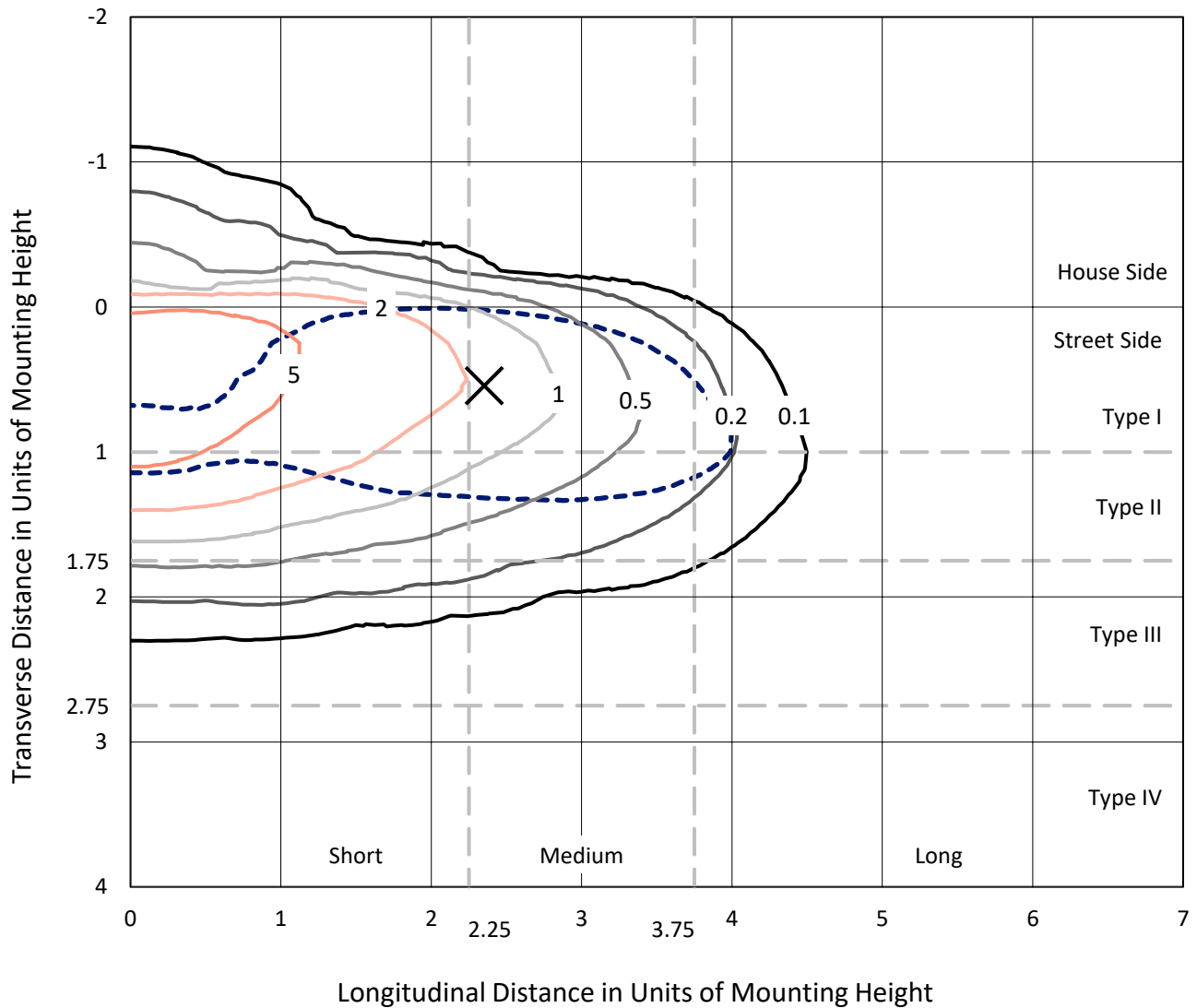
Lumens per Lamp: N/A  
Luminaire Lumens: 21019 lumens  
Efficiency: N/A  
Efficacy: 71.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

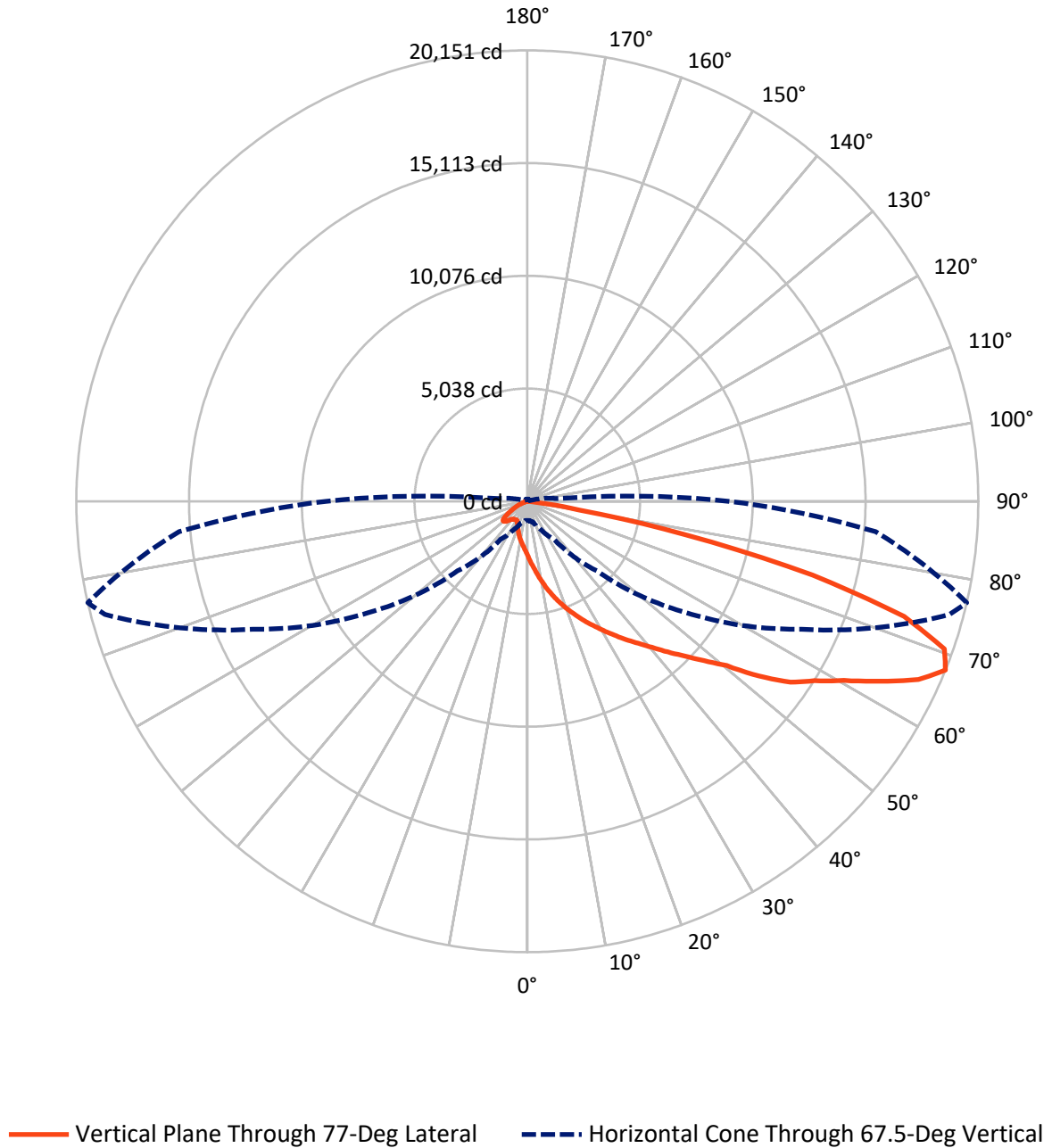
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	1546.4	0.0	1546.4
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	19472.6	0.0	19472.6
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	21019.0	0.0	21019.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.4	1.2
10°-20°	866.3	4.1
20°-30°	1671.8	8.0
30°-40°	2902.3	13.8
40°-50°	4214.0	20.0
50°-60°	4839.2	23.0
60°-70°	4201.3	20.0
70°-80°	1978.9	9.4
80°-90°	97.9	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°	21019.0	100.0
0°-180°	21019.0	100.0

**Coefficient of Utilization**



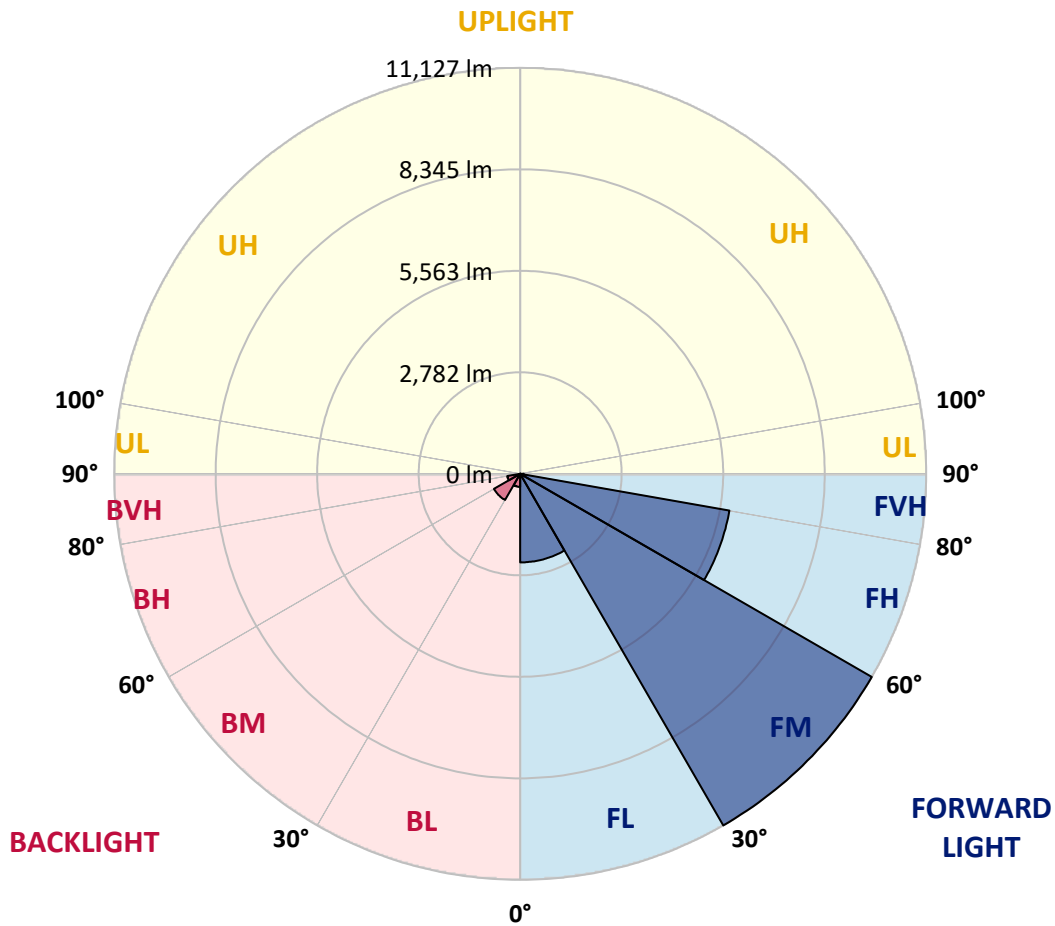
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2427.5	11.5			
FM (30°-60°)	11126.9	52.9			
FH (60°-80°)	5822.2	27.7			G3/7500
FVH (80°-90°)	96.1	0.5			G1/100
BL (0°-30°)	358.0	1.7	B1/500		
BM (30°-60°)	828.6	3.9	B1/1000		
BH (60°-80°)	358.0	1.7	B1/500		G1/500
BVH (80°-90°)	1.8	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°	2423.8	2423.8	2423.8	2423.8	2423.8	2423.8	2423.8	2423.8	2423.8	2423.8
2.5°	3355.7	3376.6	3346.6	3289.2	3203.0	3146.9	3009.8	2880.6	2737.1	2691.4
5°	4090.6	4108.8	4074.9	4012.3	3897.4	3787.8	3607.6	3337.5	3056.8	2966.8
7.5°	4634.8	4645.3	4632.2	4574.8	4465.2	4341.2	4140.2	3820.4	3404.0	3304.8
10°	5026.4	5060.4	5056.4	5034.2	4961.2	4860.7	4646.6	4282.4	3793.0	3665.1
12.5°	5286.2	5324.0	5346.2	5395.8	5391.9	5327.9	5140.0	4754.9	4180.6	4030.5
15°	5361.9	5402.3	5487.2	5602.0	5703.8	5736.5	5604.6	5218.3	4607.4	4415.6
17.5°	5318.8	5381.4	5483.2	5664.7	5887.9	6035.4	6021.0	5666.0	4995.1	4775.8
20°	5414.1	5474.1	5553.7	5706.4	5966.2	6233.7	6340.8	6094.1	5380.1	5150.4
22.5°	5941.4	5930.9	5938.8	5963.6	6118.9	6383.8	6604.4	6483.0	5761.3	5526.3
25°	6776.7	6729.7	6650.1	6515.7	6476.5	6604.4	6834.1	6827.6	6163.3	5911.4
27.5°	7734.8	7726.9	7540.3	7216.6	7033.8	6984.2	7093.9	7163.1	6561.4	6292.5
30°	8652.3	8673.2	8421.3	8061.1	7725.6	7531.1	7431.9	7481.5	6966.0	6703.6
32.5°	9451.1	9473.3	9199.2	8777.6	8362.6	8127.6	7918.8	7796.1	7407.1	7121.3
35°	10125.9	10148.1	9833.6	9367.6	8925.1	8712.4	8476.1	8140.7	7850.9	7584.7
37.5°	10728.9	10722.4	10300.8	9830.9	9396.3	9227.9	9103.9	8564.9	8307.7	8050.6
40°	11085.3	11112.7	10752.4	10234.3	9812.7	9690.0	9682.1	9090.9	8835.1	8585.8
42.5°	11189.7	11238.0	10976.9	10551.4	10169.0	10035.9	10240.8	9660.0	9448.5	9205.7
45°	11001.7	11048.7	10929.9	10635.0	10411.8	10325.6	10721.1	10249.9	10103.7	9863.6
47.5°	10453.5	10512.3	10541.0	10478.3	10475.7	10563.2	11151.8	10871.2	10881.6	10636.3
50°	9392.4	9491.6	9755.2	9977.1	10320.4	10751.1	11570.8	11544.7	11758.8	11547.3
52.5°	7463.3	7604.2	8512.7	9119.6	9891.0	10715.9	12031.5	12625.4	13297.6	12988.3
55°	5997.5	5997.5	6736.3	7871.8	9053.0	10483.6	12232.6	13327.6	14345.7	14272.6
57.5°	4889.4	4948.1	5419.3	6423.0	7840.5	9930.1	12356.5	13768.8	15190.2	15136.7
60°	3017.7	3144.3	4034.4	5025.1	6460.9	8944.7	12278.2	14215.2	16214.8	16257.9
62.5°	1699.4	1746.4	2143.2	3615.5	5023.8	7619.9	11679.1	14464.5	17525.2	17708.0
65°	1173.4	1196.9	1349.6	2250.2	3482.3	6066.7	10508.4	14309.2	18838.3	19207.7
67.5°	852.3	864.1	959.3	1374.4	2066.2	4398.6	8673.2	13526.0	19534.0	20151.3
70°	655.2	663.1	732.2	903.2	1220.4	2714.9	6299.0	11968.9	19030.2	19767.6
72.5°	532.5	540.4	593.9	668.3	809.2	1605.4	3817.8	9720.0	16806.1	17602.2
75°	449.0	459.4	507.7	556.0	634.3	1031.1	1790.8	6768.9	12638.5	13160.6
77.5°	249.3	229.7	412.5	460.7	535.1	652.6	838.0	3983.5	7078.2	7223.1
80°	155.3	160.5	327.6	370.7	411.1	328.9	383.7	1533.6	2453.8	2331.1
82.5°	9.1	20.9	251.9	267.6	281.9	141.0	144.9	520.8	591.3	543.0
85°	0.0	0.0	114.9	92.7	97.9	40.5	41.8	121.4	79.6	86.1
87.5°	0.0	0.0	0.0	2.6	0.0	3.9	7.8	10.4	3.9	5.2
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°
2423.8	0°	2423.8	2423.8	2423.8	2423.8	2423.8	2423.8	2423.8	2423.8	2423.8	2423.8
2547.8	2.5°	2456.4	2365.1	2179.7	1998.3	1850.8	1713.8	1615.9	1523.2	1476.2	1473.6
2712.3	5°	2530.8	2339.0	1968.3	1640.7	1377.0	1165.6	1028.5	930.6	881.0	864.1
2914.6	7.5°	2635.2	2346.8	1782.9	1327.4	1016.8	835.3	757.0	725.7	715.3	703.5
3143.0	10°	2767.1	2365.1	1617.2	1069.0	801.4	710.0	678.7	665.7	657.8	650.0
3400.1	12.5°	2914.6	2382.0	1452.7	887.6	704.8	657.8	635.6	620.0	609.5	600.4
3663.8	15°	3058.1	2392.5	1281.7	760.9	655.2	617.4	593.9	576.9	562.6	552.1
3922.2	17.5°	3200.4	2406.8	1121.2	685.2	614.8	576.9	553.4	532.5	520.8	509.0
4193.7	20°	3358.3	2404.2	969.8	631.7	574.3	536.4	511.6	492.1	480.3	467.3
4480.8	22.5°	3504.5	2391.2	836.6	586.0	532.5	496.0	468.6	449.0	437.2	426.8
4774.5	25°	3672.9	2380.7	725.7	544.3	493.4	456.8	426.8	408.5	395.5	386.3
5069.5	27.5°	3834.7	2365.1	644.8	506.4	455.5	420.3	391.6	370.7	358.9	352.4
5373.6	30°	3994.0	2361.1	614.8	469.9	421.6	386.3	357.6	338.1	328.9	326.3
5707.7	32.5°	4185.9	2371.6	627.8	456.8	390.3	355.0	327.6	313.3	304.1	304.1
6079.7	35°	4390.8	2369.0	647.4	468.6	369.4	323.7	302.8	293.7	284.5	284.5
6492.2	37.5°	4647.9	2372.9	663.1	488.2	361.5	297.6	285.8	274.1	268.9	268.9
6943.8	40°	5031.6	2502.1	655.2	505.1	358.9	279.3	255.8	251.9	248.0	248.0
7454.1	42.5°	5501.5	2782.7	665.7	506.4	357.6	266.3	234.9	242.8	233.6	232.3
8029.7	45°	6015.8	3089.5	732.2	479.0	356.3	259.7	224.5	233.6	219.3	219.3
8696.7	47.5°	6526.1	3393.6	800.1	439.9	352.4	258.4	215.4	210.1	206.2	207.5
9566.0	50°	7229.6	3641.6	826.2	386.3	343.3	255.8	198.4	199.7	197.1	199.7
10791.6	52.5°	7995.8	3693.8	794.9	326.3	317.2	248.0	186.6	191.9	190.6	193.2
11654.3	55°	8473.5	3637.7	656.5	271.5	276.7	216.7	174.9	185.3	185.3	185.3
12497.5	57.5°	8966.9	3398.8	466.0	220.6	229.7	177.5	164.5	178.8	177.5	176.2
13513.0	60°	9321.9	3012.5	306.7	181.4	182.7	146.2	152.7	168.4	167.1	160.5
14559.8	62.5°	9586.9	2585.6	197.1	154.0	139.7	131.8	139.7	152.7	147.5	133.1
15447.3	65°	9556.8	1994.4	151.4	131.8	114.9	114.9	121.4	133.1	117.5	94.0
15617.0	67.5°	8999.5	1349.6	125.3	110.9	96.6	95.3	100.5	110.9	100.5	79.6
14747.7	70°	8003.6	882.3	100.5	86.1	77.0	70.5	80.9	95.3	84.8	64.0
12554.9	72.5°	6496.1	537.8	75.7	62.7	56.1	45.7	64.0	78.3	67.9	47.0
8730.6	75°	4202.8	274.1	52.2	40.5	30.0	27.4	47.0	58.7	47.0	28.7
3873.9	77.5°	1608.0	114.9	28.7	18.3	15.7	13.1	26.1	35.2	19.6	6.5
750.5	80°	309.3	48.3	14.4	9.1	7.8	5.2	3.9	2.6	0.0	0.0
133.1	82.5°	53.5	15.7	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
26.1	85°	18.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.1	87.5°	6.5	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°
2423.8
1471.0
861.4
700.9
647.4
597.8
550.8
507.7
466.0
425.5
385.0
352.4
325.0
304.1
284.5
268.9
248.0
231.0
219.3
207.5
199.7
193.2
185.3
176.2
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