

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: P952130

Luminaire Tested: **GALN-SB6A-827-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952130  
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-SB6A-827-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

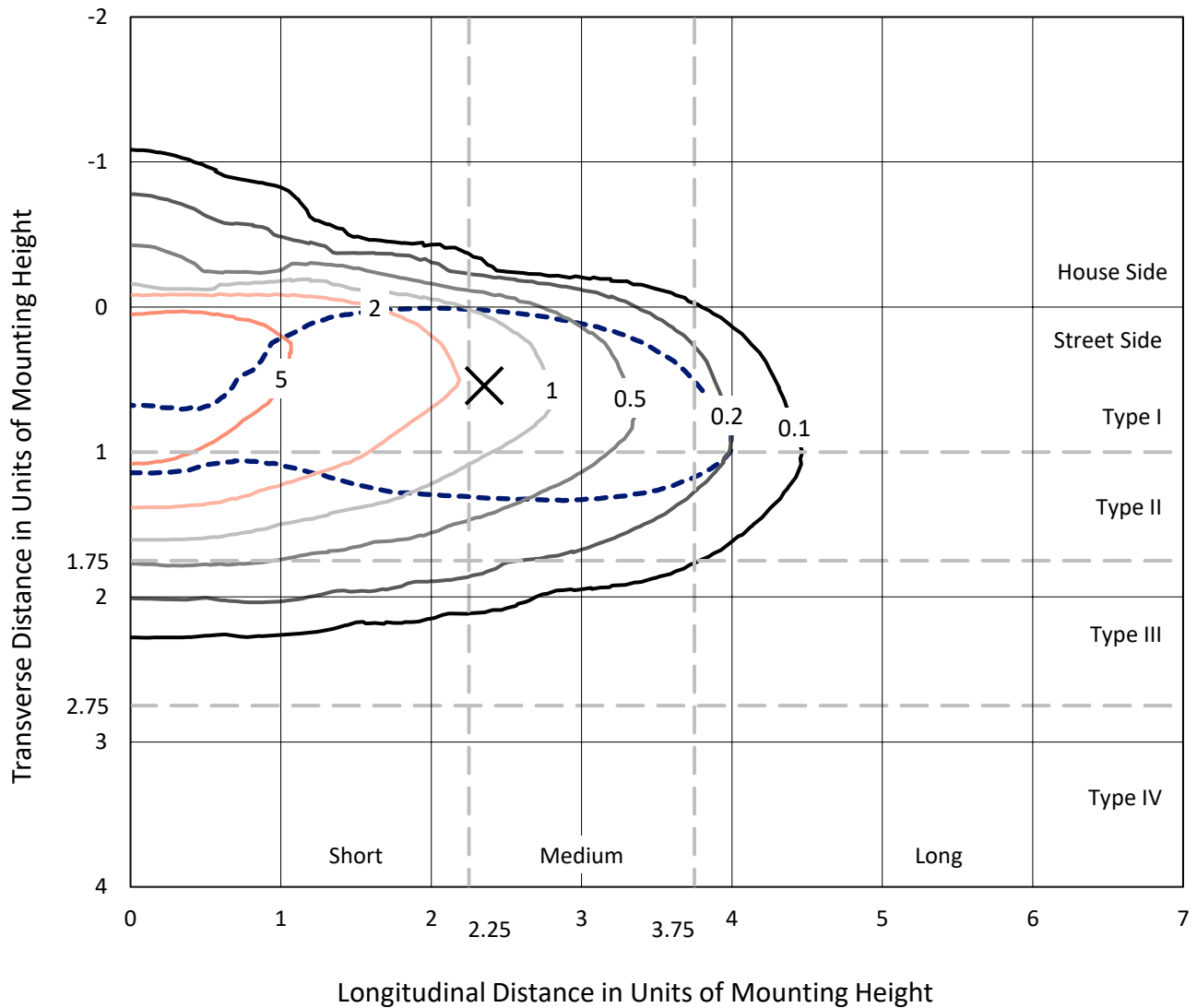
Lumens per Lamp: N/A  
Luminaire Lumens: 20027 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

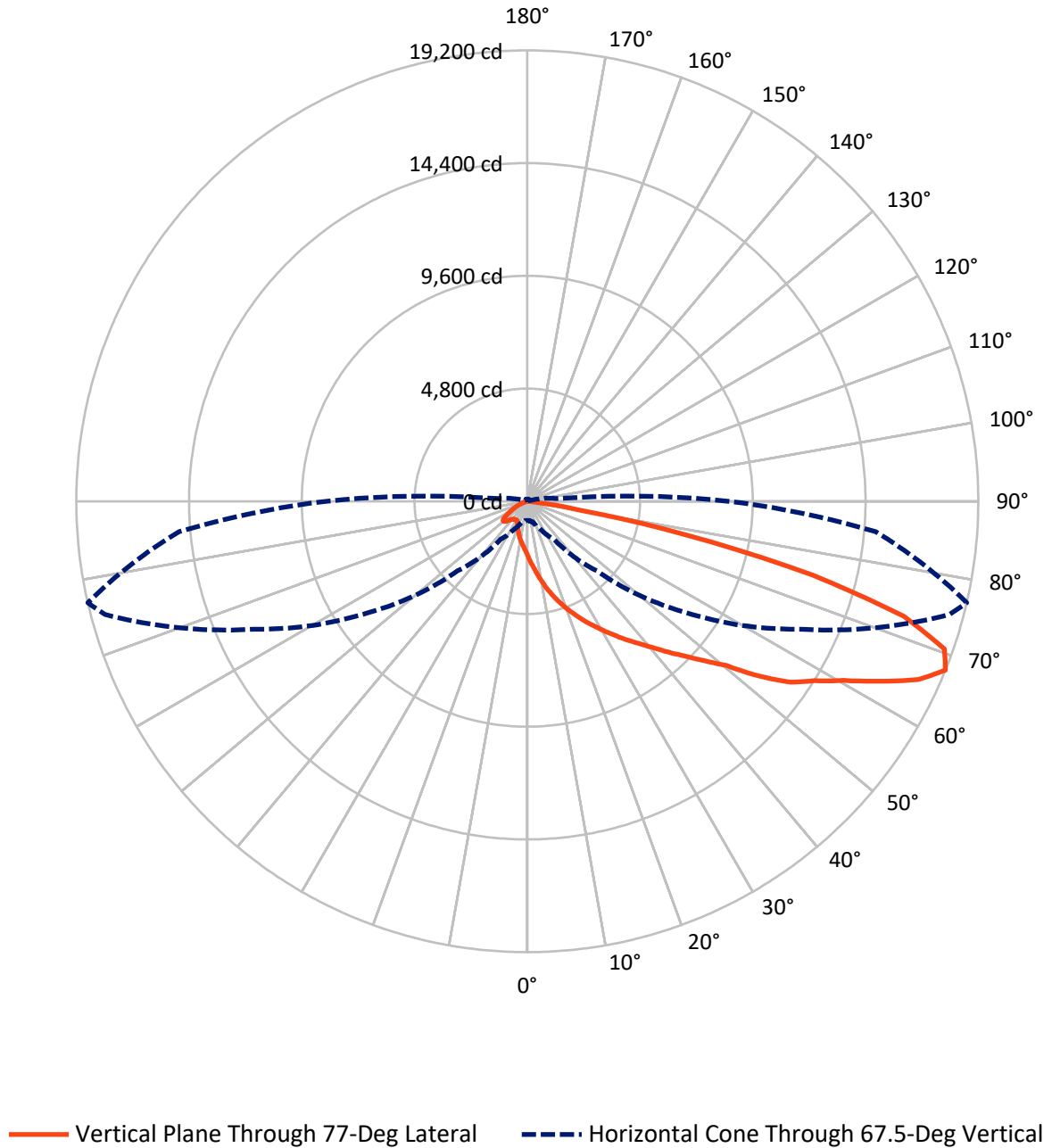
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	1473.4	0.0	1473.4
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	18553.6	0.0	18553.6
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	20027.0	0.0	20027.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.7	1.2
10°-20°	825.4	4.1
20°-30°	1592.9	8.0
30°-40°	2765.3	13.8
40°-50°	4015.1	20.0
50°-60°	4610.8	23.0
60°-70°	4003.0	20.0
70°-80°	1885.5	9.4
80°-90°	93.2	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°	20027.0	100.0
0°-180°	20027.0	100.0

**Coefficient of Utilization**



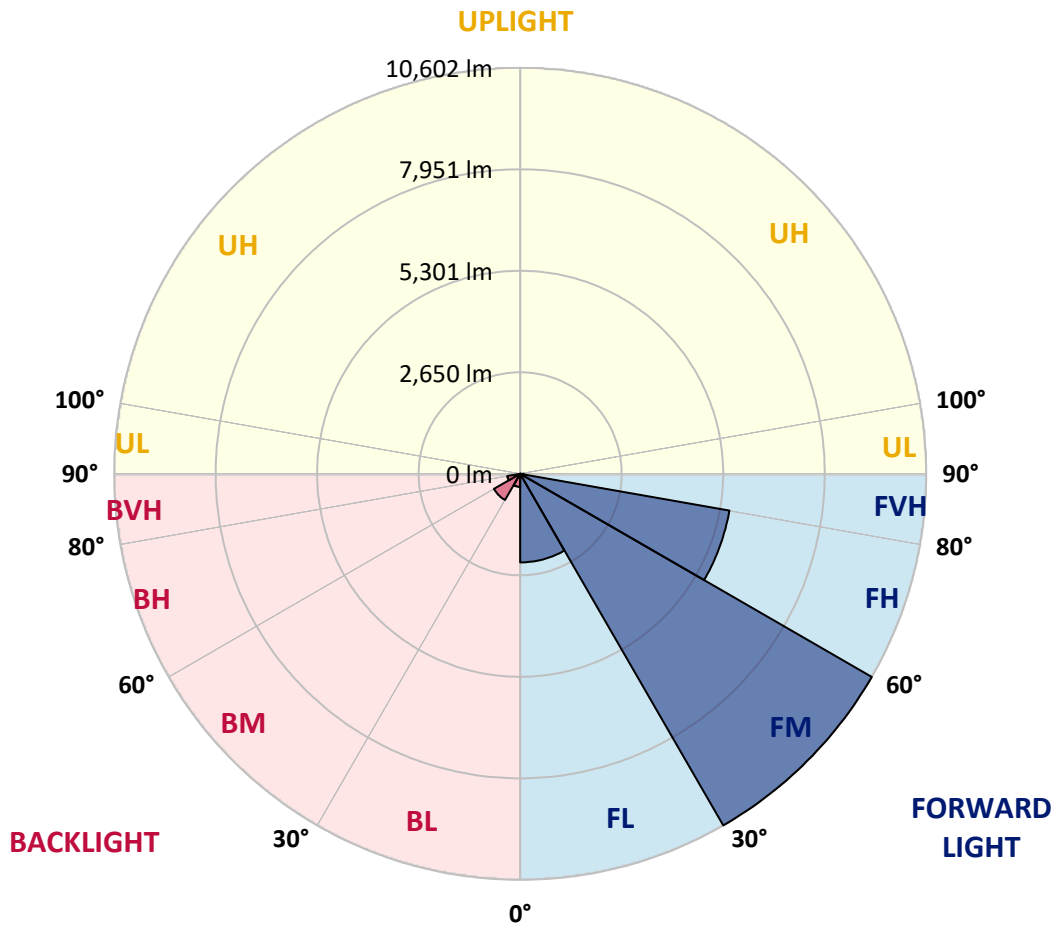
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2312.9	11.5			
FM (30°-60°)	10601.8	52.9			
FH (60°-80°)	5547.4	27.7			G3/7500
FVH (80°-90°)	91.5	0.5			G1/100
BL (0°-30°)	341.1	1.7	B1/500		
BM (30°-60°)	789.5	3.9	B1/1000		
BH (60°-80°)	341.1	1.7	B1/500		G1/500
BVH (80°-90°)	1.7	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°	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4
2.5°	3197.4	3217.3	3188.6	3133.9	3051.9	2998.4	2867.8	2744.7	2607.9	2564.4
5°	3897.5	3914.9	3882.6	3822.9	3713.5	3609.0	3437.4	3179.9	2912.6	2826.8
7.5°	4416.1	4426.1	4413.6	4358.9	4254.4	4136.3	3944.8	3640.1	3243.4	3148.9
10°	4789.2	4821.5	4817.8	4796.7	4727.0	4631.3	4427.3	4080.3	3614.0	3492.1
12.5°	5036.7	5072.7	5093.9	5141.1	5137.4	5076.5	4897.4	4530.5	3983.3	3840.3
15°	5108.8	5147.4	5228.2	5337.6	5434.6	5465.7	5340.1	4972.0	4390.0	4207.2
17.5°	5067.8	5127.5	5224.5	5397.3	5610.0	5750.5	5736.8	5398.6	4759.3	4550.4
20°	5158.5	5215.8	5291.6	5437.1	5684.6	5939.5	6041.5	5806.5	5126.2	4907.3
22.5°	5661.0	5651.0	5658.5	5682.1	5830.1	6082.6	6292.7	6177.1	5489.4	5265.5
25°	6456.9	6412.1	6336.3	6208.2	6170.9	6292.7	6511.6	6505.4	5872.4	5632.4
27.5°	7369.7	7362.2	7184.4	6876.0	6701.9	6654.6	6759.1	6825.0	6251.7	5995.5
30°	8244.0	8263.9	8023.9	7680.6	7361.0	7175.7	7081.2	7128.4	6637.2	6387.2
32.5°	9005.1	9026.2	8765.1	8363.4	7967.9	7744.0	7545.1	7428.2	7057.6	6785.2
35°	9648.0	9669.2	9369.5	8925.5	8503.9	8301.2	8076.1	7756.5	7480.4	7226.7
37.5°	10222.6	10216.4	9814.7	9367.0	8952.8	8792.4	8674.3	8160.7	7915.7	7670.7
40°	10562.1	10588.2	10245.0	9751.2	9349.6	9232.7	9225.2	8661.8	8418.1	8180.6
42.5°	10661.6	10707.6	10458.9	10053.4	9689.1	9562.2	9757.5	9204.1	9002.6	8771.3
45°	10482.5	10527.3	10414.1	10133.0	9920.4	9838.3	10215.1	9766.2	9626.9	9398.1
47.5°	9960.2	10016.1	10043.5	9983.8	9981.3	10064.6	10625.5	10358.1	10368.1	10134.3
50°	8949.1	9043.6	9294.8	9506.3	9833.3	10243.7	11024.7	10999.8	11203.8	11002.3
52.5°	7111.0	7245.3	8110.9	8689.2	9424.2	10210.1	11463.7	12029.6	12670.0	12375.3
55°	5714.4	5714.4	6418.3	7500.3	8625.8	9988.8	11655.2	12698.6	13668.7	13599.0
57.5°	4658.6	4714.6	5163.5	6119.9	7470.4	9461.5	11773.4	13119.0	14473.3	14422.3
60°	2875.3	2995.9	3844.0	4787.9	6155.9	8522.5	11698.8	13544.3	15449.5	15490.6
62.5°	1619.2	1664.0	2042.0	3444.8	4786.7	7260.3	11127.9	13781.8	16698.1	16872.2
65°	1118.0	1140.4	1285.9	2144.0	3318.0	5780.4	10012.4	13633.8	17949.2	18301.2
67.5°	812.1	823.3	914.1	1309.5	1968.7	4191.0	8263.9	12887.7	18612.1	19200.3
70°	624.3	631.8	697.7	860.6	1162.8	2586.7	6001.7	11404.0	18132.0	18834.7
72.5°	507.4	514.9	565.8	636.7	771.0	1529.7	3637.6	9261.3	16012.9	16771.5
75°	427.8	437.8	483.8	529.8	604.4	982.5	1706.3	6449.4	12042.0	12539.4
77.5°	237.5	218.9	393.0	439.0	509.9	621.8	798.4	3795.5	6744.2	6882.2
80°	148.0	153.0	312.1	353.2	391.7	313.4	365.6	1461.3	2338.0	2221.1
82.5°	8.7	19.9	240.0	254.9	268.6	134.3	138.0	496.2	563.4	517.3
85°	0.0	0.0	109.4	88.3	93.3	38.6	39.8	115.7	75.9	82.1
87.5°	0.0	0.0	0.0	2.5	0.0	3.7	7.5	9.9	3.7	5.0
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°
2309.4	0°	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4
2427.6	2.5°	2340.5	2253.4	2076.9	1904.0	1763.5	1632.9	1539.6	1451.3	1406.5	1404.1
2584.2	5°	2411.4	2228.6	1875.4	1563.2	1312.0	1110.6	980.0	886.7	839.4	823.3
2777.0	7.5°	2510.9	2236.0	1698.8	1264.8	968.8	795.9	721.3	691.5	681.5	670.3
2994.6	10°	2636.5	2253.4	1540.8	1018.5	763.6	676.5	646.7	634.2	626.8	619.3
3239.6	12.5°	2777.0	2269.6	1384.2	845.7	671.6	626.8	605.6	590.7	580.8	572.1
3490.8	15°	2913.8	2279.6	1221.2	725.0	624.3	588.2	565.8	549.7	536.0	526.1
3737.1	17.5°	3049.4	2293.2	1068.3	652.9	585.7	549.7	527.3	507.4	496.2	485.0
3995.8	20°	3199.8	2290.8	924.0	601.9	547.2	511.1	487.5	468.8	457.7	445.2
4269.4	22.5°	3339.1	2278.3	797.2	558.4	507.4	472.6	446.5	427.8	416.6	406.7
4549.2	25°	3499.6	2268.4	691.5	518.6	470.1	435.3	406.7	389.3	376.8	368.1
4830.2	27.5°	3653.8	2253.4	614.3	482.5	434.0	400.4	373.1	353.2	342.0	335.8
5120.0	30°	3805.5	2249.7	585.7	447.7	401.7	368.1	340.8	322.1	313.4	310.9
5438.4	32.5°	3988.3	2259.7	598.2	435.3	371.8	338.3	312.1	298.5	289.8	289.8
5792.8	35°	4183.5	2257.2	616.8	446.5	351.9	308.4	288.5	279.8	271.1	271.1
6185.8	37.5°	4428.5	2260.9	631.8	465.1	344.5	283.5	272.4	261.2	256.2	256.2
6616.1	40°	4794.2	2384.0	624.3	481.3	342.0	266.1	243.8	240.0	236.3	236.3
7102.3	42.5°	5241.9	2651.4	634.2	482.5	340.8	253.7	223.9	231.3	222.6	221.4
7650.8	45°	5731.9	2943.7	697.7	456.4	339.5	247.5	213.9	222.6	208.9	208.9
8286.3	47.5°	6218.1	3233.4	762.3	419.1	335.8	246.2	205.2	200.2	196.5	197.7
9114.5	50°	6888.4	3469.7	787.2	368.1	327.1	243.8	189.0	190.3	187.8	190.3
10282.3	52.5°	7618.4	3519.5	757.4	310.9	302.2	236.3	177.8	182.8	181.6	184.1
11104.3	55°	8073.6	3466.0	625.5	258.7	263.6	206.4	166.6	176.6	176.6	176.6
11907.7	57.5°	8543.7	3238.4	444.0	210.2	218.9	169.1	156.7	170.4	169.1	167.9
12875.2	60°	8882.0	2870.3	292.3	172.9	174.1	139.3	145.5	160.4	159.2	153.0
13872.6	62.5°	9134.4	2463.6	187.8	146.7	133.1	125.6	133.1	145.5	140.5	126.8
14718.3	65°	9105.8	1900.3	144.3	125.6	109.4	109.4	115.7	126.8	111.9	89.5
14879.9	67.5°	8574.8	1285.9	119.4	105.7	92.0	90.8	95.8	105.7	95.8	75.9
14051.7	70°	7625.9	840.7	95.8	82.1	73.4	67.2	77.1	90.8	80.8	60.9
11962.4	72.5°	6189.5	512.4	72.1	59.7	53.5	43.5	60.9	74.6	64.7	44.8
8318.6	75°	4004.5	261.2	49.7	38.6	28.6	26.1	44.8	56.0	44.8	27.4
3691.1	77.5°	1532.1	109.4	27.4	17.4	14.9	12.4	24.9	33.6	18.7	6.2
715.1	80°	294.7	46.0	13.7	8.7	7.5	5.0	3.7	2.5	0.0	0.0
126.8	82.5°	51.0	14.9	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
24.9	85°	17.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.7	87.5°	6.2	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°
2309.4
1401.6
820.8
667.8
616.8
569.6
524.8
483.8
444.0
405.4
366.9
335.8
309.7
289.8
271.1
256.2
236.3
220.1
208.9
197.7
190.3
184.1
176.6
167.9
153.0
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87.1
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