

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: P954734

Luminaire Tested: **GALN-SB7D-927-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954734  
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-SB7D-927-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

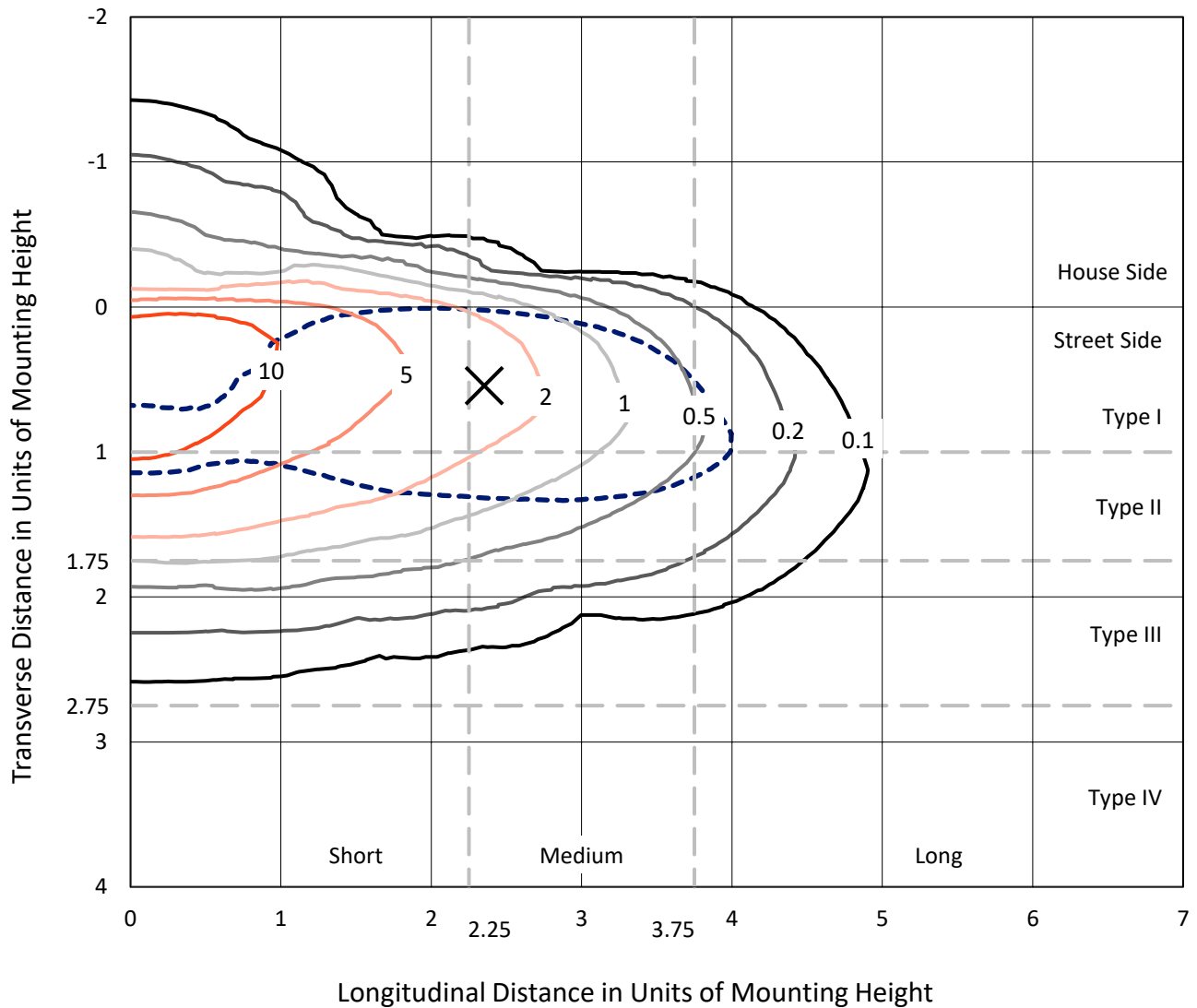
Lumens per Lamp: N/A  
Luminaire Lumens: 37297 lumens  
Efficiency: N/A  
Efficacy: 72.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

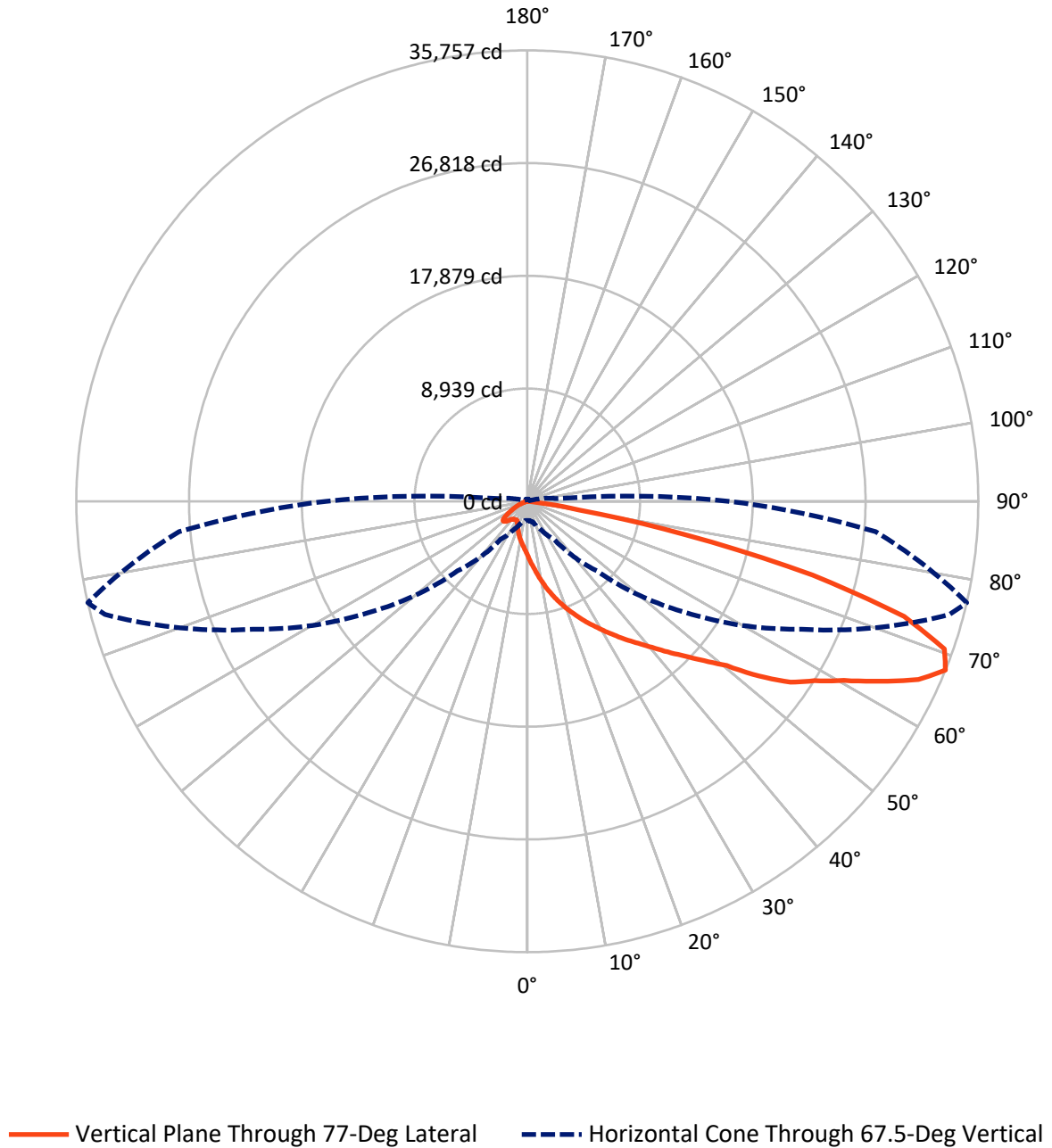
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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	2744.0	0.0	2744.0
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	34553.0	0.0	34553.0
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	37297.0	0.0	37297.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	439.0	1.2
10°-20°	1537.2	4.1
20°-30°	2966.5	8.0
30°-40°	5149.9	13.8
40°-50°	7477.4	20.0
50°-60°	8586.9	23.0
60°-70°	7455.0	20.0
70°-80°	3511.4	9.4
80°-90°	173.6	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°	37297.0	100.0
0°-180°	37297.0	100.0

**Coefficient of Utilization**



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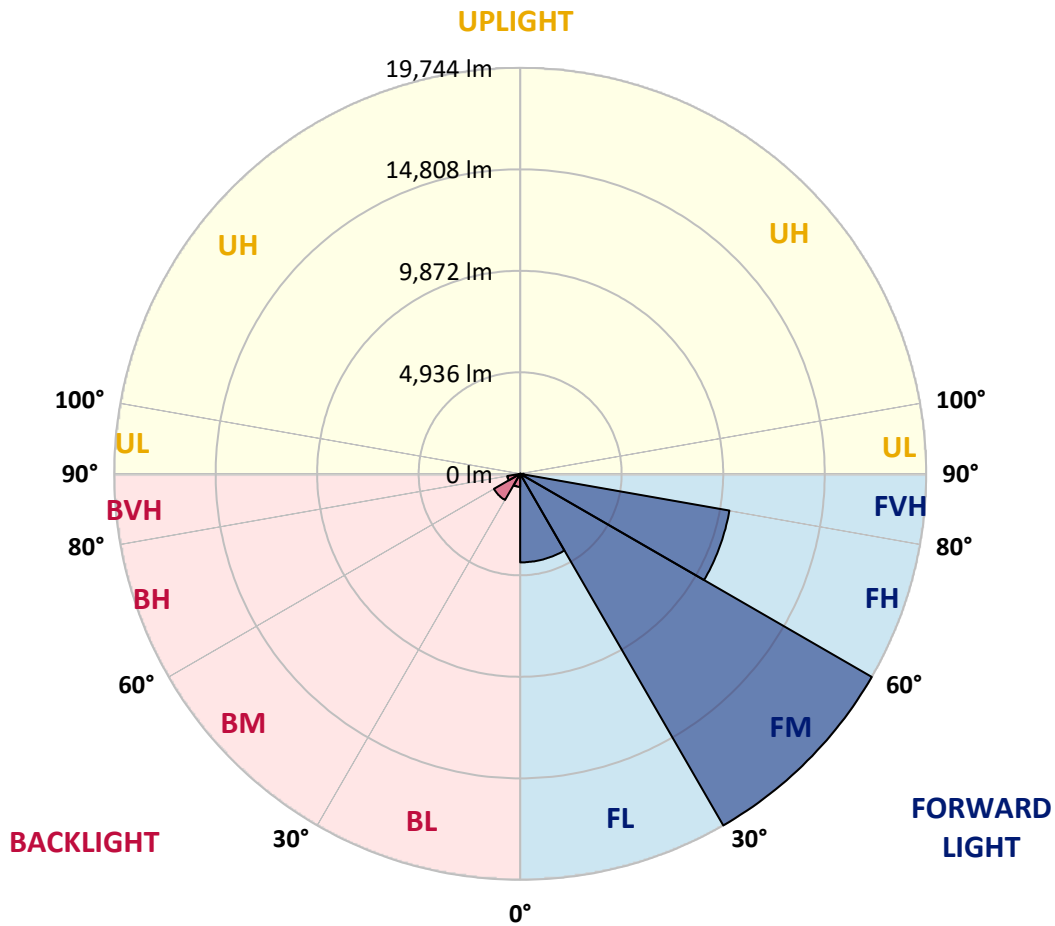
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4307.4	11.5			
FM (30°-60°)	19744.0	52.9			
FH (60°-80°)	10331.2	27.7			G4/12000
FVH (80°-90°)	170.5	0.5			G2/225
BL (0°-30°)	635.3	1.7	B2/1000		
BM (30°-60°)	1470.2	3.9	B2/2500		
BH (60°-80°)	635.2	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9
2.5°	5954.5	5991.6	5938.3	5836.4	5683.6	5584.0	5340.8	5111.5	4856.7	4775.7
5°	7258.5	7290.9	7230.7	7119.5	6915.7	6721.2	6401.5	5922.1	5424.2	5264.4
7.5°	8224.3	8242.8	8219.6	8117.7	7923.2	7703.2	7346.5	6779.1	6040.2	5864.2
10°	8919.1	8979.3	8972.4	8933.0	8803.3	8624.9	8245.1	7598.9	6730.4	6503.4
12.5°	9380.0	9447.1	9486.5	9574.5	9567.6	9454.1	9120.6	8437.3	7418.3	7151.9
15°	9514.3	9586.1	9736.6	9940.5	10121.1	10179.0	9945.1	9259.5	8175.6	7835.2
17.5°	9437.9	9549.0	9729.7	10051.6	10447.7	10709.4	10683.9	10053.9	8863.5	8474.4
20°	9606.9	9713.5	9854.8	10125.7	10586.6	11061.4	11251.3	10813.6	9546.7	9139.1
22.5°	10542.6	10524.1	10538.0	10582.0	10857.6	11327.8	11719.2	11503.8	10223.0	9806.1
25°	12024.9	11941.5	11800.2	11561.7	11492.2	11719.2	12126.8	12115.2	10936.4	10489.4
27.5°	13724.9	13711.0	13379.8	12805.4	12481.2	12393.1	12587.7	12710.4	11642.7	11165.6
30°	15353.1	15390.1	14943.1	14303.9	13708.7	13363.6	13187.6	13275.6	12360.7	11895.2
32.5°	16770.5	16809.8	16323.5	15575.4	14838.9	14422.0	14051.4	13833.7	13143.5	12636.3
35°	17967.9	18007.2	17449.1	16622.2	15837.1	15459.6	15040.4	14445.2	13931.0	13458.5
37.5°	19037.9	19026.3	18278.2	17444.4	16673.2	16374.4	16154.4	15197.9	14741.6	14285.4
40°	19670.2	19718.8	19079.6	18160.1	17412.0	17194.3	17180.4	16131.2	15677.3	15234.9
42.5°	19855.4	19941.1	19477.9	18722.9	18044.3	17808.1	18171.7	17141.0	16765.8	16335.1
45°	19521.9	19605.3	19394.5	18871.1	18475.1	18322.2	19024.0	18187.9	17928.5	17502.3
47.5°	18549.2	18653.4	18704.4	18593.2	18588.6	18743.7	19788.3	19290.3	19308.9	18873.4
50°	16666.2	16842.3	17310.1	17703.8	18313.0	19077.2	20531.7	20485.4	20865.2	20490.0
52.5°	13243.1	13493.3	15105.2	16182.2	17551.0	19014.7	21349.3	22403.1	23595.8	23046.9
55°	10642.2	10642.2	11953.1	13968.1	16064.1	18602.5	21706.0	23649.1	25455.6	25325.9
57.5°	8675.9	8780.1	9616.2	11397.2	13912.5	17620.5	21926.0	24431.9	26954.1	26859.2
60°	5354.7	5579.3	7158.9	8916.8	11464.4	15871.8	21787.0	25224.0	28772.2	28848.6
62.5°	3015.5	3098.9	3802.9	6415.4	8914.5	13521.1	20724.0	25666.4	31097.5	31421.8
65°	2082.1	2123.8	2394.8	3992.9	6179.2	10765.0	18646.5	25390.8	33427.5	34082.9
67.5°	1512.4	1533.2	1702.3	2438.8	3666.3	7805.1	15390.1	24001.2	34661.9	35757.4
70°	1162.7	1176.5	1299.3	1602.7	2165.5	4817.4	11177.2	21238.1	33767.9	35076.5
72.5°	944.9	958.8	1053.8	1185.8	1435.9	2848.7	6774.4	17247.6	29821.4	31234.2
75°	796.7	815.2	900.9	986.6	1125.6	1829.7	3177.6	12011.0	22426.2	23352.7
77.5°	442.4	407.6	731.9	817.6	949.6	1158.0	1486.9	7068.6	12559.9	12817.0
80°	275.6	284.9	581.3	657.8	729.6	583.6	680.9	2721.4	4354.2	4136.5
82.5°	16.2	37.1	447.0	474.8	500.3	250.1	257.1	924.1	1049.2	963.5
85°	0.0	0.0	203.8	164.4	173.7	71.8	74.1	215.4	141.3	152.9
87.5°	0.0	0.0	0.0	4.6	0.0	6.9	13.9	18.5	6.9	9.3
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°
4300.9	0°	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9
4520.9	2.5°	4358.8	4196.7	3867.8	3545.9	3284.1	3041.0	2867.3	2702.8	2619.4	2614.8
4812.7	5°	4490.8	4150.3	3492.6	2911.3	2443.4	2068.2	1825.0	1651.3	1563.3	1533.2
5171.7	7.5°	4676.1	4164.2	3163.7	2355.4	1804.2	1482.3	1343.3	1287.7	1269.2	1248.3
5577.0	10°	4910.0	4196.7	2869.6	1896.8	1422.1	1259.9	1204.3	1181.2	1167.3	1153.4
6033.3	12.5°	5171.7	4226.8	2577.8	1574.9	1250.7	1167.3	1127.9	1100.1	1081.6	1065.4
6501.1	15°	5426.5	4245.3	2274.4	1350.3	1162.7	1095.5	1053.8	1023.7	998.2	979.7
6959.7	17.5°	5678.9	4270.8	1989.5	1215.9	1090.9	1023.7	982.0	944.9	924.1	903.3
7441.4	20°	5959.2	4266.2	1720.8	1121.0	1019.1	951.9	907.9	873.1	852.3	829.1
7951.0	22.5°	6218.6	4243.0	1484.6	1039.9	944.9	880.1	831.5	796.7	775.9	757.3
8472.1	25°	6517.3	4224.5	1287.7	965.8	875.5	810.6	757.3	724.9	701.8	685.5
8995.5	27.5°	6804.5	4196.7	1144.1	898.6	808.3	745.8	694.8	657.8	636.9	625.3
9535.2	30°	7087.1	4189.7	1090.9	833.8	748.1	685.5	634.6	599.9	583.6	579.0
10128.1	32.5°	7427.6	4208.3	1114.0	810.6	692.5	630.0	581.3	555.9	539.6	539.6
10788.1	35°	7791.2	4203.6	1148.8	831.5	655.4	574.4	537.3	521.1	504.9	504.9
11520.0	37.5°	8247.4	4210.6	1176.5	866.2	641.5	528.1	507.2	486.4	477.1	477.1
12321.4	40°	8928.3	4439.9	1162.7	896.3	636.9	495.6	453.9	447.0	440.0	440.0
13226.9	42.5°	9762.1	4937.8	1181.2	898.6	634.6	472.5	416.9	430.8	414.6	412.3
14248.3	45°	10674.6	5482.1	1299.3	850.0	632.3	460.9	398.4	414.6	389.1	389.1
15431.8	47.5°	11580.2	6021.7	1419.7	780.5	625.3	458.6	382.1	372.9	365.9	368.3
16974.3	50°	12828.6	6461.8	1466.1	685.5	609.1	453.9	352.0	354.4	349.7	354.4
19149.0	52.5°	14188.1	6554.4	1410.5	579.0	562.8	440.0	331.2	340.5	338.1	342.8
20680.0	55°	15035.8	6454.8	1165.0	481.7	491.0	384.5	310.3	328.9	328.9	328.9
22176.1	57.5°	15911.2	6031.0	826.8	391.4	407.6	315.0	291.8	317.3	315.0	312.7
23978.0	60°	16541.2	5345.4	544.3	321.9	324.2	259.4	271.0	298.8	296.5	284.9
25835.5	62.5°	17011.3	4588.1	349.7	273.3	247.8	233.9	247.8	271.0	261.7	236.2
27410.4	65°	16958.1	3538.9	268.7	233.9	203.8	203.8	215.4	236.2	208.4	166.8
27711.5	67.5°	15969.1	2394.8	222.3	196.9	171.4	169.1	178.3	196.9	178.3	141.3
26169.0	70°	14202.0	1565.6	178.3	152.9	136.6	125.1	143.6	169.1	150.5	113.5
22278.0	72.5°	11526.9	954.2	134.3	111.2	99.6	81.1	113.5	139.0	120.4	83.4
15492.0	75°	7457.7	486.4	92.6	71.8	53.3	48.6	83.4	104.2	83.4	51.0
6874.0	77.5°	2853.4	203.8	51.0	32.4	27.8	23.2	46.3	62.5	34.7	11.6
1331.7	80°	548.9	85.7	25.5	16.2	13.9	9.3	6.9	4.6	0.0	0.0
236.2	82.5°	95.0	27.8	9.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0
46.3	85°	32.4	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.2	87.5°	11.6	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°
4300.9
2610.2
1528.6
1243.7
1148.8
1060.7
977.4
900.9
826.8
755.0
683.2
625.3
576.7
539.6
504.9
477.1
440.0
409.9
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354.4
342.8
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