

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: P944822

Luminaire Tested: **GALN-SB9D-950-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944822  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-950-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

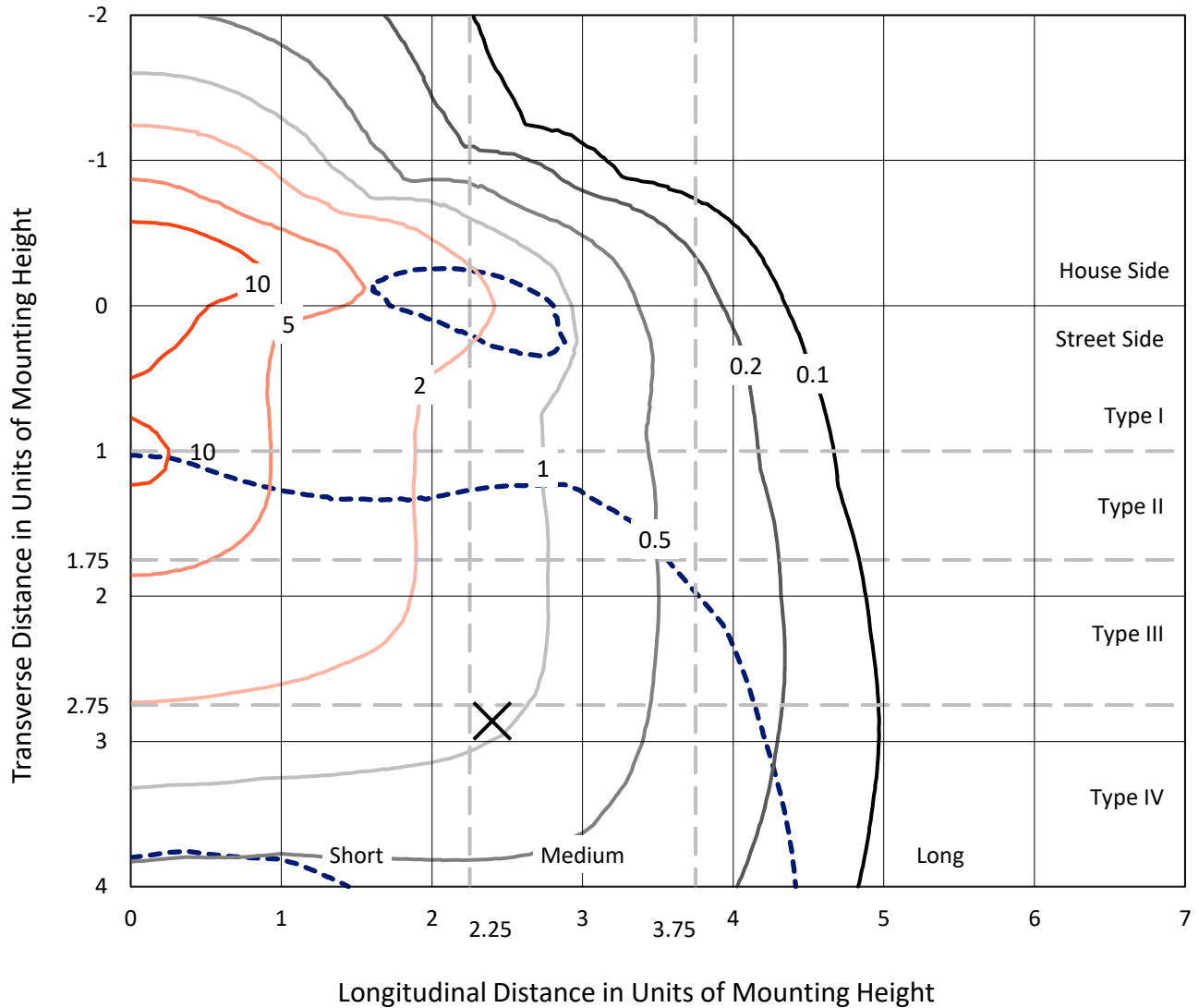
Lumens per Lamp: N/A  
Luminaire Lumens: 63915 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

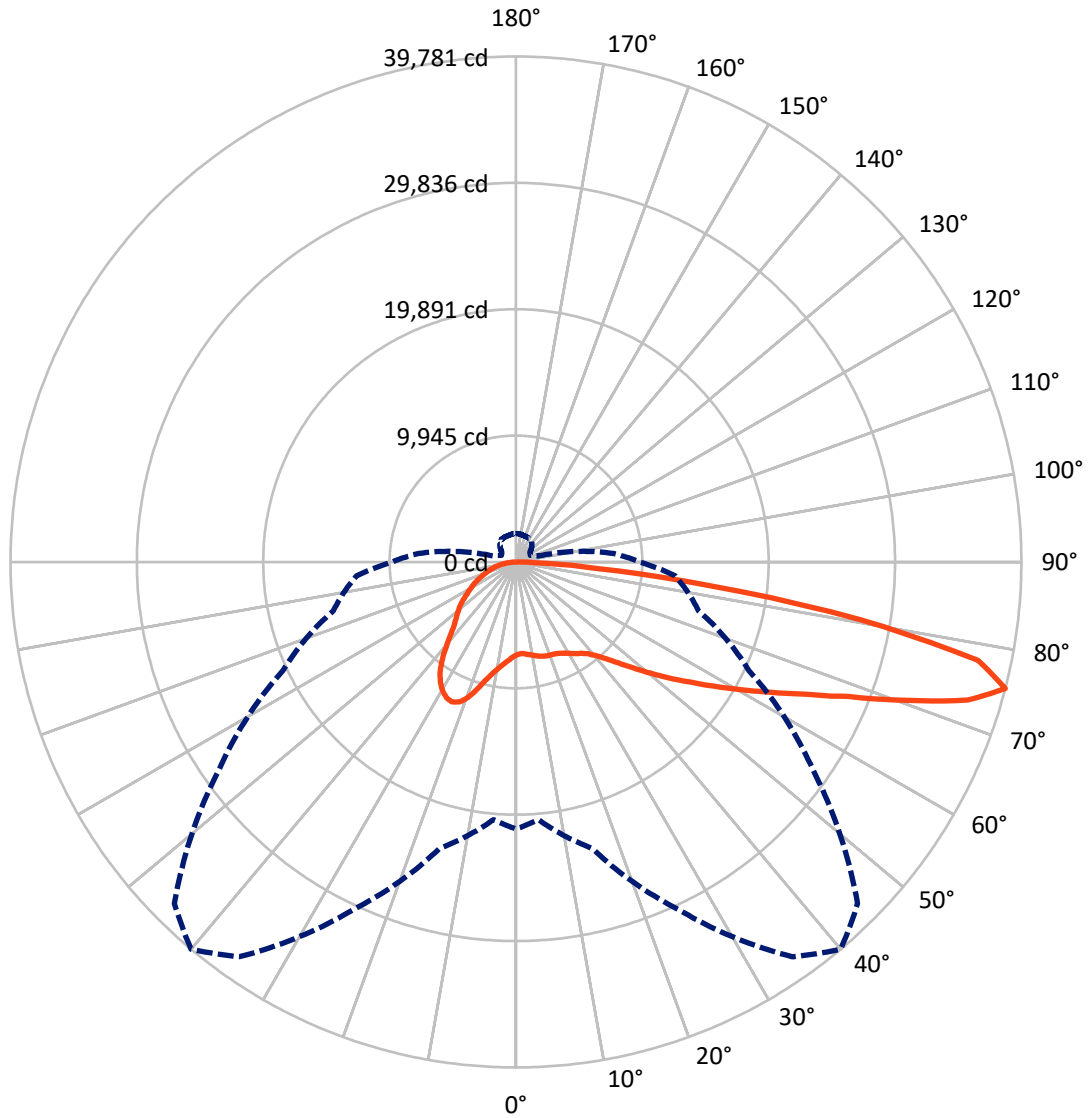
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19803.0	0.0	19803.0
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	44112.0	0.0	44112.0
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	63915.0	0.0	63915.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	729.6	1.1
10°-20°	2449.4	3.8
20°-30°	4472.5	7.0
30°-40°	6343.2	9.9
40°-50°	8565.3	13.4
50°-60°	11522.6	18.0
60°-70°	14624.8	22.9
70°-80°	13272.9	20.8
80°-90°	1934.8	3.0
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°	63915.0	100.0
0°-180°	63915.0	100.0

**Coefficient of Utilization**



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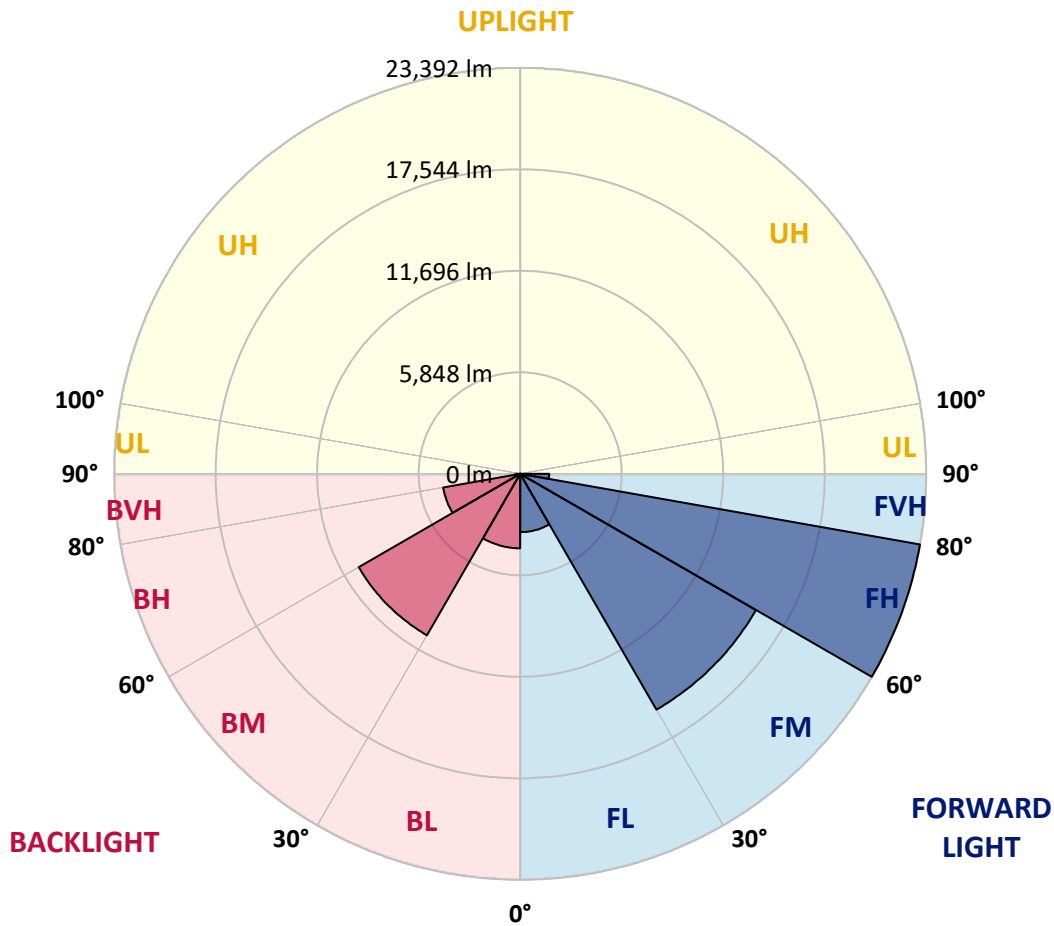
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3362.0	5.3			
FM (30°-60°)	15689.7	24.5			
FH (60°-80°)	23391.9	36.6			G5
FVH (80°-90°)	1668.4	2.6			G5
BL (0°-30°)	4289.5	6.7	B4/5000		
BM (30°-60°)	10741.3	16.8	B5		
BH (60°-80°)	4505.8	7.0	B4/5000		G4/5000
BVH (80°-90°)	266.4	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	7308.8	7308.8	7308.8	7308.8	7308.8	7308.8	7308.8	7308.8	7308.8	7308.8
2.5°	7196.9	7237.6	7227.4	7213.8	7213.8	7217.2	7213.8	7237.6	7261.3	7285.0
5°	7271.5	7312.2	7291.8	7274.9	7261.3	7257.9	7247.7	7244.4	7257.9	7288.4
7.5°	7417.2	7457.9	7427.4	7396.9	7369.8	7356.2	7342.7	7322.3	7312.2	7329.1
10°	7580.0	7620.6	7583.4	7529.1	7485.0	7468.1	7454.5	7434.2	7420.6	7430.8
12.5°	7742.7	7783.4	7732.5	7657.9	7600.3	7590.1	7573.2	7566.4	7563.0	7559.6
15°	7895.2	7929.1	7864.7	7776.6	7715.6	7698.6	7681.7	7691.8	7708.8	7729.1
17.5°	8013.9	8047.8	7952.9	7837.6	7780.0	7773.2	7763.0	7796.9	7844.4	7895.2
20°	8122.4	8156.3	8034.2	7878.3	7810.5	7810.5	7813.9	7885.1	7952.9	8027.4
22.5°	8274.9	8302.0	8152.9	7939.3	7841.0	7847.8	7874.9	7946.1	8030.8	8132.5
25°	8502.0	8522.4	8339.3	8054.6	7942.7	7963.0	7986.8	8020.7	8102.0	8220.7
27.5°	8868.1	8885.1	8644.4	8258.0	8088.5	8122.4	8156.3	8132.5	8169.8	8271.5
30°	9383.4	9393.6	9088.5	8576.6	8335.9	8352.9	8359.7	8261.3	8190.2	8271.5
32.5°	9993.6	9990.2	9627.5	8963.1	8617.3	8600.3	8542.7	8349.5	8183.4	8254.6
35°	10939.4	10902.1	10434.3	9505.5	8935.9	8830.9	8695.3	8447.8	8217.3	8237.6
37.5°	12505.6	12390.3	11742.8	10393.6	9410.5	9142.7	8942.7	8607.1	8291.9	8230.8
40°	14271.8	14126.0	13414.1	11610.6	10122.4	9691.9	9369.9	8834.2	8413.9	8261.3
42.5°	16366.8	16160.0	15393.8	13044.6	11024.2	10400.4	9915.6	9122.4	8593.6	8359.7
45°	18939.7	18665.1	17580.4	14661.6	12159.8	11329.3	10681.8	9559.7	8868.1	8549.5
47.5°	21539.8	21607.6	20065.2	16512.5	13522.6	12475.1	11641.1	10217.4	9268.2	8854.6
50°	24302.7	24350.1	22536.5	18563.5	15068.4	13770.0	12719.2	10953.0	9824.1	9288.5
52.5°	26458.7	26465.5	24780.6	20709.3	16678.6	15193.8	13881.9	11793.7	10468.2	9864.8
55°	27807.9	27790.9	26353.6	22739.9	18529.6	16688.8	15170.1	12749.7	11254.7	10542.8
57.5°	28787.6	28736.7	27438.4	24485.7	20502.5	18455.0	16627.8	13834.4	12183.5	11349.6
60°	29160.5	29130.0	28174.0	25994.3	22577.2	20407.6	18309.2	15048.1	13237.8	12302.2
62.5°	29302.9	29360.5	28896.1	27455.3	24797.6	22570.4	20156.7	16499.0	14424.3	13380.2
65°	29804.6	29909.7	29814.7	29367.3	27306.2	25102.7	22607.7	18224.5	15719.3	14536.2
67.5°	30797.8	30902.9	30943.6	31655.5	30370.7	28258.8	25665.4	20373.7	17234.6	15736.2
70°	30774.1	30743.6	31462.3	33475.9	34208.1	32628.4	29787.6	23017.9	19041.4	16732.9
72.5°	28011.3	27767.2	29465.6	33455.6	37401.5	37191.3	34821.7	26428.2	20600.8	16854.9
75°	21014.4	20363.5	23363.6	30150.4	37933.7	39781.2	38021.9	28543.5	20231.3	14892.1
77.5°	8986.8	8332.5	11868.3	22319.5	33950.5	37187.9	35086.1	24902.7	16149.8	9847.8
80°	2352.6	2349.2	3586.6	10119.0	23089.1	27462.1	24092.5	16082.0	9227.5	3518.8
82.5°	972.9	949.2	1318.7	3935.7	11281.8	15410.8	12576.8	7173.2	3332.3	952.6
85°	362.7	359.3	640.7	1359.4	3979.8	6356.2	4600.2	1834.0	830.5	464.4
87.5°	101.7	98.3	139.0	471.2	969.5	1471.2	786.5	301.7	233.9	183.1
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°
7308.8	0°	7308.8	7308.8	7308.8	7308.8	7308.8	7308.8	7308.8	7308.8	7308.8	7308.8
7322.3	2.5°	7332.5	7349.4	7380.0	7403.7	7434.2	7468.1	7515.6	7546.1	7576.6	7596.9
7339.3	5°	7363.0	7400.3	7478.3	7556.2	7647.8	7732.5	7830.8	7902.0	7959.6	7976.6
7400.3	7.5°	7430.8	7491.8	7624.0	7756.2	7902.0	8041.0	8183.4	8305.4	8403.7	8441.0
7508.8	10°	7549.5	7630.8	7817.3	8003.7	8196.9	8410.5	8593.6	8769.8	8908.8	8966.5
7637.6	12.5°	7698.6	7800.3	8044.4	8302.0	8569.8	8864.8	9102.1	9319.0	9491.9	9569.9
7817.3	15°	7891.8	8024.0	8335.9	8681.7	9074.9	9485.1	9786.8	10027.5	10220.7	10315.7
8003.7	17.5°	8102.0	8278.3	8671.5	9193.6	9756.3	10295.3	10647.9	10824.2	11024.2	11115.7
8176.6	20°	8305.4	8522.4	9085.1	9844.5	10593.6	11166.5	11451.3	11498.8	11512.3	11522.5
8339.3	22.5°	8515.6	8807.1	9603.8	10664.8	11468.3	11864.9	11905.6	11702.2	11417.4	11285.2
8498.6	25°	8746.1	9132.6	10281.8	11570.0	12220.8	12268.3	11956.4	11461.5	10922.5	10675.0
8627.5	27.5°	8969.8	9508.9	11095.4	12434.4	12763.2	12346.3	11675.0	10973.3	10322.4	10061.4
8719.0	30°	9193.6	9939.4	11993.7	13190.4	13010.7	12153.0	11231.0	10447.9	9793.6	9519.0
8800.4	32.5°	9420.7	10441.1	13027.6	13736.1	12966.6	11742.8	10678.4	9858.0	9281.7	8993.6
8871.5	35°	9678.4	11058.1	14007.3	14034.5	12671.7	11139.4	9949.5	9152.9	8651.2	8420.7
8956.3	37.5°	10014.0	11841.1	14871.8	14109.0	12156.4	10254.6	9044.4	8319.0	7905.4	7800.3
9081.7	40°	10430.9	12783.6	15532.8	13990.4	11393.7	9180.0	8054.6	7474.9	7241.0	7264.7
9251.2	42.5°	10973.3	13837.8	15997.2	13685.3	10332.6	8071.5	7186.7	6929.1	7041.0	7135.9
9505.5	45°	11678.4	14932.8	16285.4	13166.6	9132.6	7132.5	6674.8	6735.9	6820.6	6830.8
9915.6	47.5°	12580.2	16041.3	16475.2	12383.5	7908.8	6471.4	6349.4	6363.0	6346.0	6274.8
10529.2	50°	13705.6	17119.3	16644.7	11346.2	6868.1	6057.9	5895.1	5847.7	5613.8	5383.3
11346.2	52.5°	14987.0	18109.2	16715.9	10058.0	6057.9	5712.1	5447.7	5149.4	4712.1	4640.9
12373.4	55°	16410.8	19024.5	16532.9	8474.9	5376.5	5268.0	4868.0	4508.7	4461.2	4400.2
13726.0	57.5°	18112.6	20011.0	16160.0	6708.7	4678.2	4749.3	4359.5	4400.2	4315.4	4220.5
15465.0	60°	19973.7	21031.3	15505.7	5098.5	3956.1	4101.9	4227.3	4223.9	4200.2	4122.2
17299.0	62.5°	21648.3	21702.6	14217.5	3905.2	3322.2	3600.1	3942.5	3939.1	3918.8	3874.7
19214.3	65°	22645.0	21600.9	12068.3	3074.7	2800.1	3186.6	3556.1	3583.2	3586.6	3583.2
20655.1	67.5°	22468.7	20411.0	9119.0	2447.6	2369.6	2766.2	3173.0	3210.3	3237.4	3244.2
20838.1	70°	20475.4	17797.3	5946.0	1952.6	1986.5	2396.7	2810.3	2847.6	2871.3	2898.4
18082.1	72.5°	15960.0	13085.3	3403.5	1579.7	1650.9	2078.0	2450.9	2495.0	2508.6	2559.4
12583.6	75°	9725.8	7695.2	1837.4	1244.1	1356.0	1776.3	2095.0	2145.8	2169.6	2230.6
6179.9	77.5°	4623.9	3332.3	1047.5	969.5	1091.6	1450.9	1769.6	1827.2	1762.8	1796.7
1705.2	80°	1562.8	1237.3	661.0	739.0	833.9	1132.2	1417.0	1474.6	1339.0	1332.3
566.1	82.5°	545.8	501.7	420.4	491.5	539.0	810.2	1071.2	1145.8	996.6	993.3
254.2	85°	213.6	203.4	233.9	267.8	322.0	498.3	705.1	742.4	613.6	494.9
74.6	87.5°	44.1	47.5	57.6	61.0	98.3	172.9	254.2	311.9	247.5	210.2
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

<u>180°</u>
7308.8
7583.4
7983.4
8444.4
8969.8
9569.9
10308.9
11112.3
11549.6
11322.5
10712.3
10091.9
9549.5
9030.9
8471.5
7874.9
7346.1
7224.0
6898.6
6329.1
5413.8
4664.6
4410.3
4203.6
4095.1
3857.8
3583.2
3251.0
2912.0
2579.8
2237.4
1769.6
1318.7
945.8
488.2
193.2
0.0

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