

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: P956939

Luminaire Tested: **GALN-SB9B-940-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956939
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-SB9B-940-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 450mA 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: 31468 lumens
Efficiency: N/A
Efficacy: 95.5 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

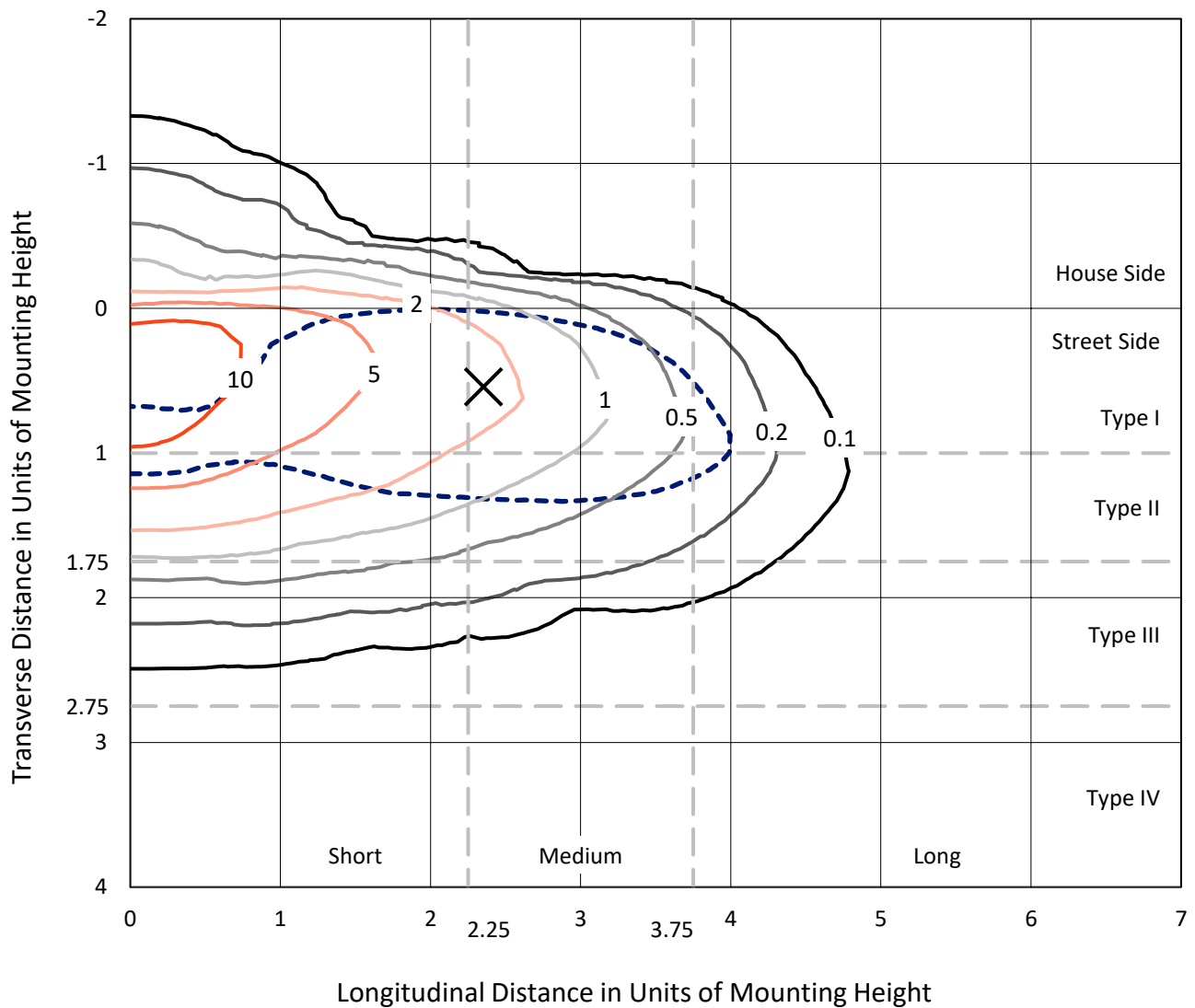
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

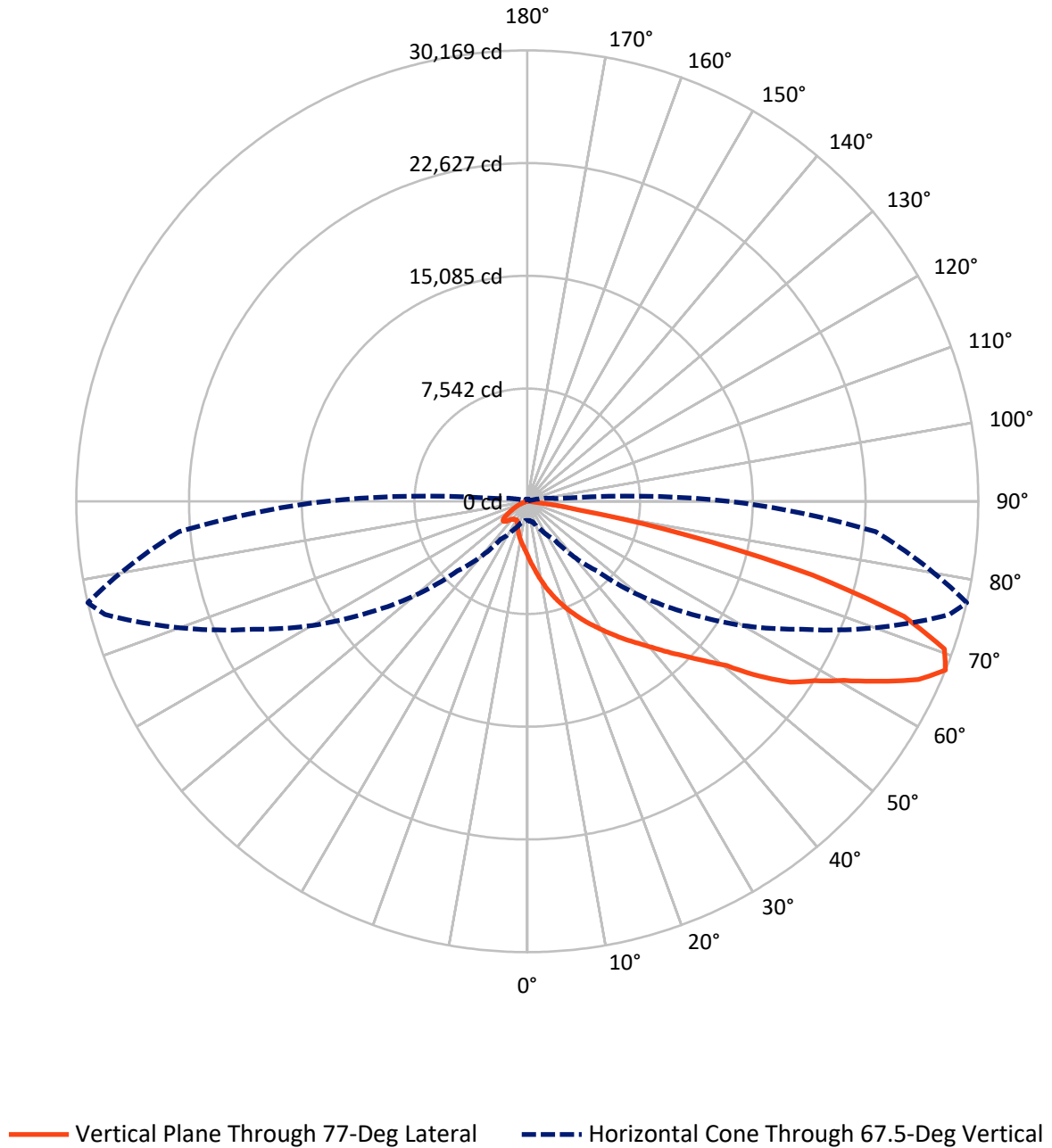
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2315.1	0.0	2315.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	29152.9	0.0	29152.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	31468.0	0.0	31468.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.4	1.2
10°-20°	1297.0	4.1
20°-30°	2502.8	8.0
30°-40°	4345.1	13.8
40°-50°	6308.8	20.0
50°-60°	7244.9	23.0
60°-70°	6289.9	20.0
70°-80°	2962.6	9.4
80°-90°	146.5	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°	31468.0	100.0
0°-180°	31468.0	100.0

Coefficient of Utilization



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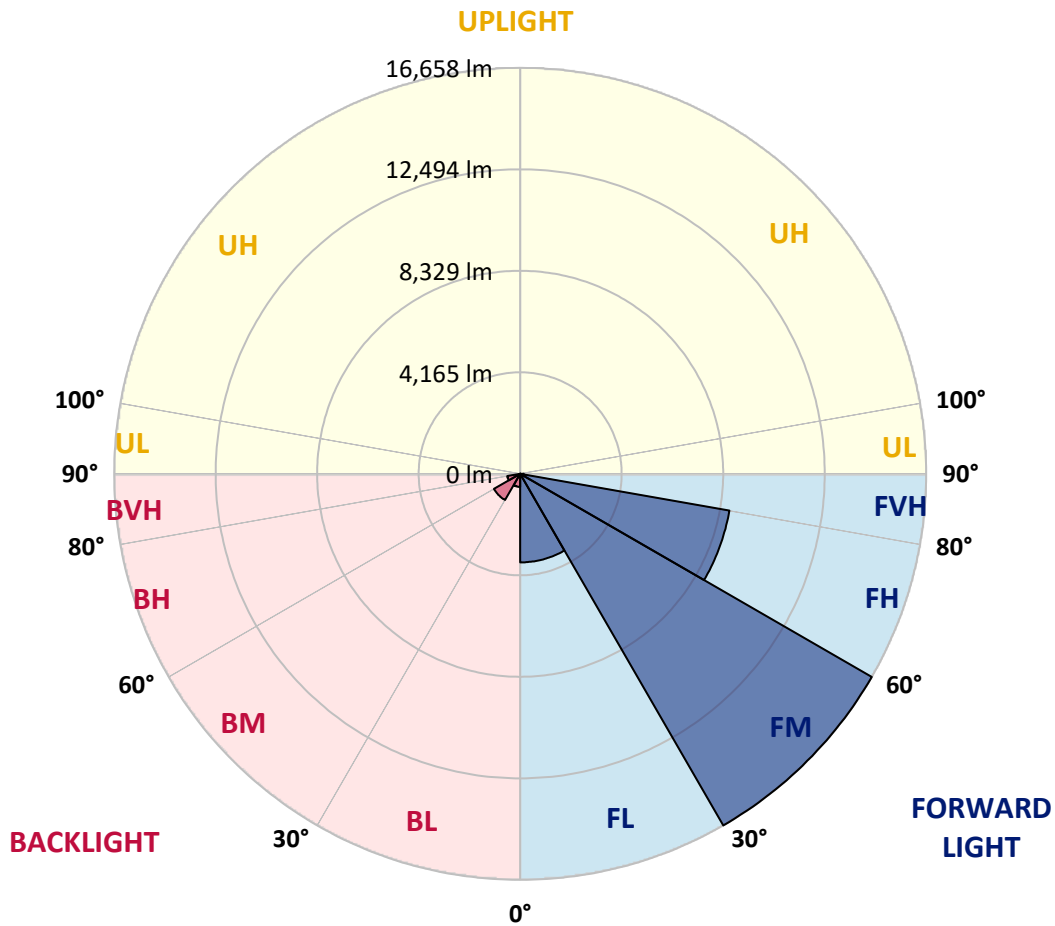
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3634.2	11.5			
FM (30°-60°)	16658.3	52.9			
FH (60°-80°)	8716.5	27.7			G4/12000
FVH (80°-90°)	143.8	0.5			G2/225
BL (0°-30°)	536.0	1.7	B2/1000		
BM (30°-60°)	1240.5	3.9	B2/2500		
BH (60°-80°)	536.0	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7
2.5°	5023.9	5055.2	5010.3	4924.3	4795.3	4711.3	4506.1	4312.7	4097.7	4029.3
5°	6124.1	6151.4	6100.6	6006.8	5834.9	5670.7	5401.1	4996.6	4576.5	4441.6
7.5°	6938.9	6954.6	6935.0	6849.0	6684.9	6499.3	6198.3	5719.6	5096.2	4947.7
10°	7525.2	7576.0	7570.1	7536.9	7427.5	7277.0	6956.5	6411.3	5678.6	5487.1
12.5°	7914.0	7970.7	8003.9	8078.2	8072.3	7976.5	7695.2	7118.7	6258.9	6034.2
15°	8027.4	8087.9	8214.9	8386.9	8539.3	8588.2	8390.8	7812.4	6897.9	6610.6
17.5°	7962.9	8056.7	8209.1	8480.7	8814.8	9035.7	9014.2	8482.7	7478.3	7150.0
20°	8105.5	8195.4	8314.6	8543.2	8932.1	9332.7	9492.9	9123.6	8054.7	7710.8
22.5°	8895.0	8879.3	8891.1	8928.2	9160.7	9557.4	9887.6	9705.9	8625.3	8273.6
25°	10145.6	10075.2	9956.0	9754.8	9696.1	9887.6	10231.6	10221.8	9227.2	8850.0
27.5°	11579.9	11568.1	11288.7	10804.1	10530.5	10456.3	10620.4	10724.0	9823.2	9420.6
30°	12953.6	12984.8	12607.7	12068.4	11566.2	11275.0	11126.5	11200.8	10428.9	10036.1
32.5°	14149.5	14182.7	13772.3	13141.2	12519.8	12168.0	11855.4	11671.7	11089.4	10661.4
35°	15159.7	15193.0	14722.0	14024.4	13362.0	13043.5	12689.8	12187.6	11753.8	11355.1
37.5°	16062.5	16052.8	15421.6	14718.1	14067.4	13815.3	13629.7	12822.7	12437.7	12052.8
40°	16596.0	16637.0	16097.7	15321.9	14690.8	14507.1	14495.4	13610.2	13227.2	12853.9
42.5°	16752.3	16824.6	16433.8	15796.8	15224.2	15024.9	15331.7	14462.1	14145.6	13782.1
45°	16470.9	16541.3	16363.4	15921.8	15587.7	15458.7	16050.8	15345.4	15126.5	14767.0
47.5°	15650.2	15738.1	15781.1	15687.3	15683.4	15814.4	16695.6	16275.5	16291.1	15923.8
50°	14061.5	14210.1	14604.8	14937.0	15450.9	16095.7	17322.9	17283.8	17604.3	17287.7
52.5°	11173.4	11384.5	12744.5	13653.1	14808.0	16043.0	18012.7	18901.8	19908.1	19445.0
55°	8979.0	8979.0	10085.0	11785.0	13553.5	15695.2	18313.6	19953.1	21477.3	21367.8
57.5°	7320.0	7407.9	8113.3	9616.0	11738.1	14866.6	18499.3	20613.6	22741.6	22661.4
60°	4517.8	4707.4	6040.1	7523.2	9672.7	13391.3	18382.0	21281.9	24275.5	24340.0
62.5°	2544.2	2614.6	3208.6	5412.8	7521.2	11407.9	17485.1	21655.1	26237.4	26511.0
65°	1756.7	1791.9	2020.5	3368.8	5213.5	9082.6	15732.3	21422.6	28203.2	28756.2
67.5°	1276.0	1293.6	1436.2	2057.6	3093.3	6585.2	12984.8	20250.1	29244.7	30169.0
70°	980.9	992.7	1096.2	1352.2	1827.1	4064.5	9430.4	17918.9	28490.5	29594.5
72.5°	797.3	809.0	889.1	1000.5	1211.5	2403.5	5715.7	14552.0	25160.7	26352.7
75°	672.2	687.8	760.1	832.4	949.7	1543.7	2681.0	10133.8	18921.3	19703.0
77.5°	373.2	343.9	617.5	689.8	801.2	977.0	1254.5	5963.8	10597.0	10813.9
80°	232.5	240.4	490.5	555.0	615.5	492.4	574.5	2296.0	3673.7	3490.0
82.5°	13.7	31.3	377.1	400.6	422.1	211.0	216.9	779.7	885.2	812.9
85°	0.0	0.0	172.0	138.7	146.6	60.6	62.5	181.7	119.2	129.0
87.5°	0.0	0.0	0.0	3.9	0.0	5.9	11.7	15.6	5.9	7.8
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°
3628.7	0°	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7
3814.4	2.5°	3677.6	3540.8	3263.3	2991.7	2770.9	2565.7	2419.1	2280.4	2210.1	2206.2
4060.6	5°	3789.0	3501.7	2946.7	2456.3	2061.6	1745.0	1539.8	1393.3	1319.0	1293.6
4363.5	7.5°	3945.3	3513.4	2669.3	1987.3	1522.2	1250.6	1133.4	1086.5	1070.8	1053.2
4705.4	10°	4142.6	3540.8	2421.1	1600.4	1199.8	1063.0	1016.1	996.6	984.9	973.1
5090.4	12.5°	4363.5	3566.2	2174.9	1328.8	1055.2	984.9	951.6	928.2	912.6	898.9
5485.1	15°	4578.4	3581.8	1918.9	1139.2	980.9	924.3	889.1	863.7	842.2	826.6
5872.0	17.5°	4791.4	3603.3	1678.6	1025.9	920.4	863.7	828.5	797.3	779.7	762.1
6278.5	20°	5027.8	3599.4	1451.9	945.8	859.8	803.1	766.0	736.7	719.1	699.6
6708.3	22.5°	5246.7	3579.9	1252.6	877.4	797.3	742.5	701.5	672.2	654.6	639.0
7148.0	25°	5498.8	3564.2	1086.5	814.9	738.6	683.9	639.0	611.6	592.1	578.4
7589.6	27.5°	5741.1	3540.8	965.3	758.2	682.0	629.2	586.2	555.0	537.4	527.6
8044.9	30°	5979.5	3534.9	920.4	703.5	631.2	578.4	535.4	506.1	492.4	488.5
8545.2	32.5°	6266.7	3550.6	939.9	683.9	584.3	531.5	490.5	469.0	455.3	455.3
9102.1	35°	6573.5	3546.7	969.2	701.5	553.0	484.6	453.3	439.7	426.0	426.0
9719.6	37.5°	6958.5	3552.5	992.7	730.8	541.3	445.5	427.9	410.4	402.5	402.5
10395.7	40°	7533.0	3746.0	980.9	756.2	537.4	418.2	383.0	377.1	371.3	371.3
11159.7	42.5°	8236.4	4166.1	996.6	758.2	535.4	398.6	351.7	363.5	349.8	347.8
12021.5	45°	9006.3	4625.3	1096.2	717.1	533.5	388.9	336.1	349.8	328.3	328.3
13020.0	47.5°	9770.4	5080.6	1197.8	658.5	527.6	386.9	322.4	314.6	308.7	310.7
14321.4	50°	10823.6	5451.9	1236.9	578.4	513.9	383.0	297.0	299.0	295.1	299.0
16156.3	52.5°	11970.7	5530.0	1190.0	488.5	474.8	371.3	279.4	287.2	285.3	289.2
17448.0	55°	12685.9	5446.0	982.9	406.4	414.3	324.4	261.8	277.5	277.5	277.5
18710.3	57.5°	13424.5	5088.4	697.6	330.2	343.9	265.8	246.2	267.7	265.8	263.8
20230.6	60°	13956.0	4510.0	459.2	271.6	273.6	218.9	228.6	252.1	250.1	240.4
21797.7	62.5°	14352.7	3871.0	295.1	230.6	209.1	197.4	209.1	228.6	220.8	199.3
23126.5	65°	14307.8	2985.8	226.7	197.4	172.0	172.0	181.7	199.3	175.9	140.7
23380.5	67.5°	13473.4	2020.5	187.6	166.1	144.6	142.6	150.5	166.1	150.5	119.2
22079.1	70°	11982.4	1321.0	150.5	129.0	115.3	105.5	121.2	142.6	127.0	95.7
18796.3	72.5°	9725.4	805.1	113.3	93.8	84.0	68.4	95.7	117.2	101.6	70.3
13070.8	75°	6292.1	410.4	78.2	60.6	44.9	41.0	70.3	87.9	70.3	43.0
5799.7	77.5°	2407.4	172.0	43.0	27.4	23.4	19.5	39.1	52.8	29.3	9.8
1123.6	80°	463.1	72.3	21.5	13.7	11.7	7.8	5.9	3.9	0.0	0.0
199.3	82.5°	80.1	23.4	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
39.1	85°	27.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.7	87.5°	9.8	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°
3628.7
2202.2
1289.7
1049.3
969.2
895.0
824.6
760.1
697.6
637.0
576.5
527.6
486.6
455.3
426.0
402.5
371.3
345.9
328.3
310.7
299.0
289.2
277.5
263.8
240.4
195.4
136.8
115.3
91.8
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