

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: P953495

Luminaire Tested: **GALN-SB7A-740-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953495
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-SB7A-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 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: 28576 lumens
Efficiency: N/A
Efficacy: 143.5 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

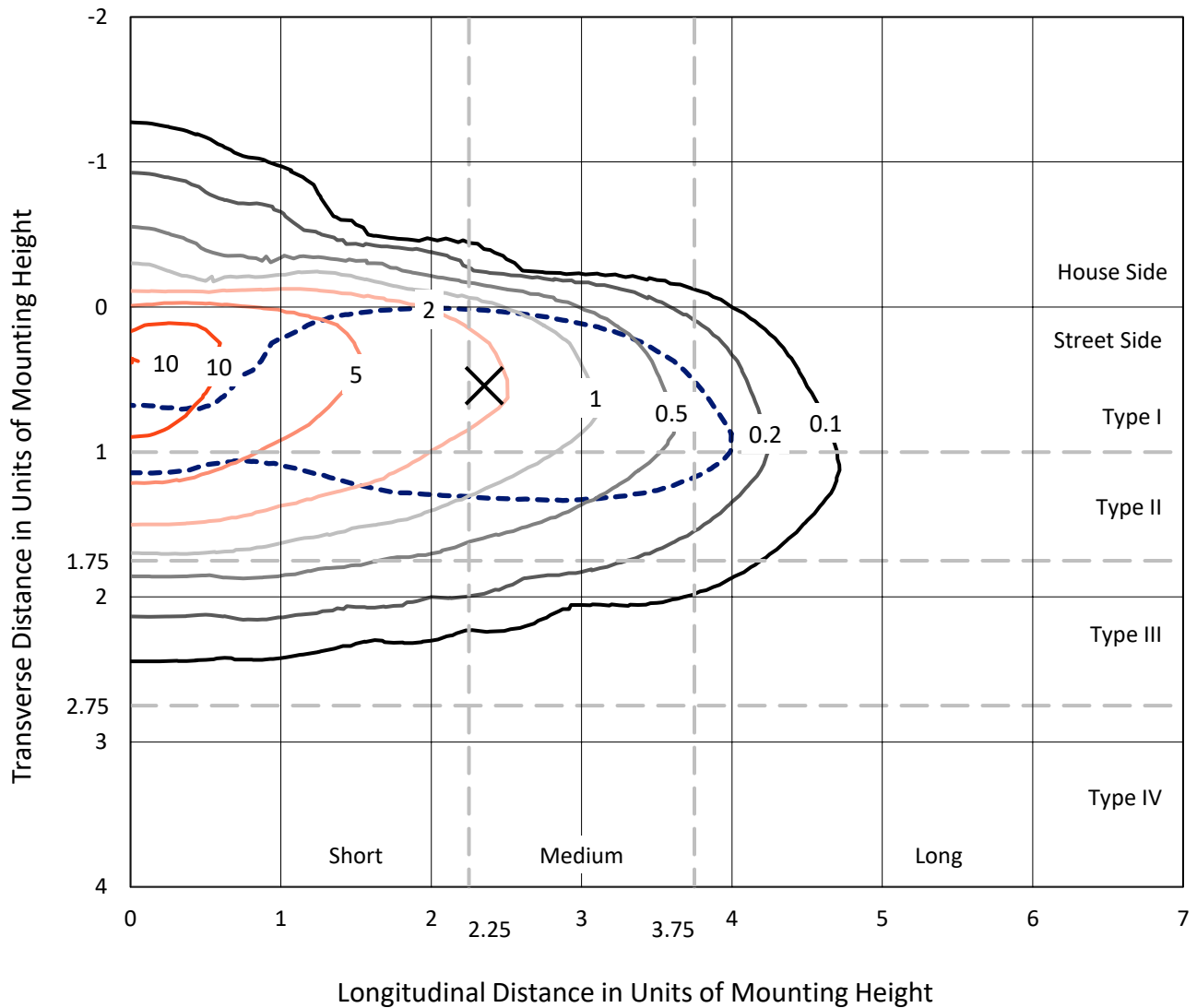
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P953495
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Iso-Footcandle Lines of Horizontal Illumination

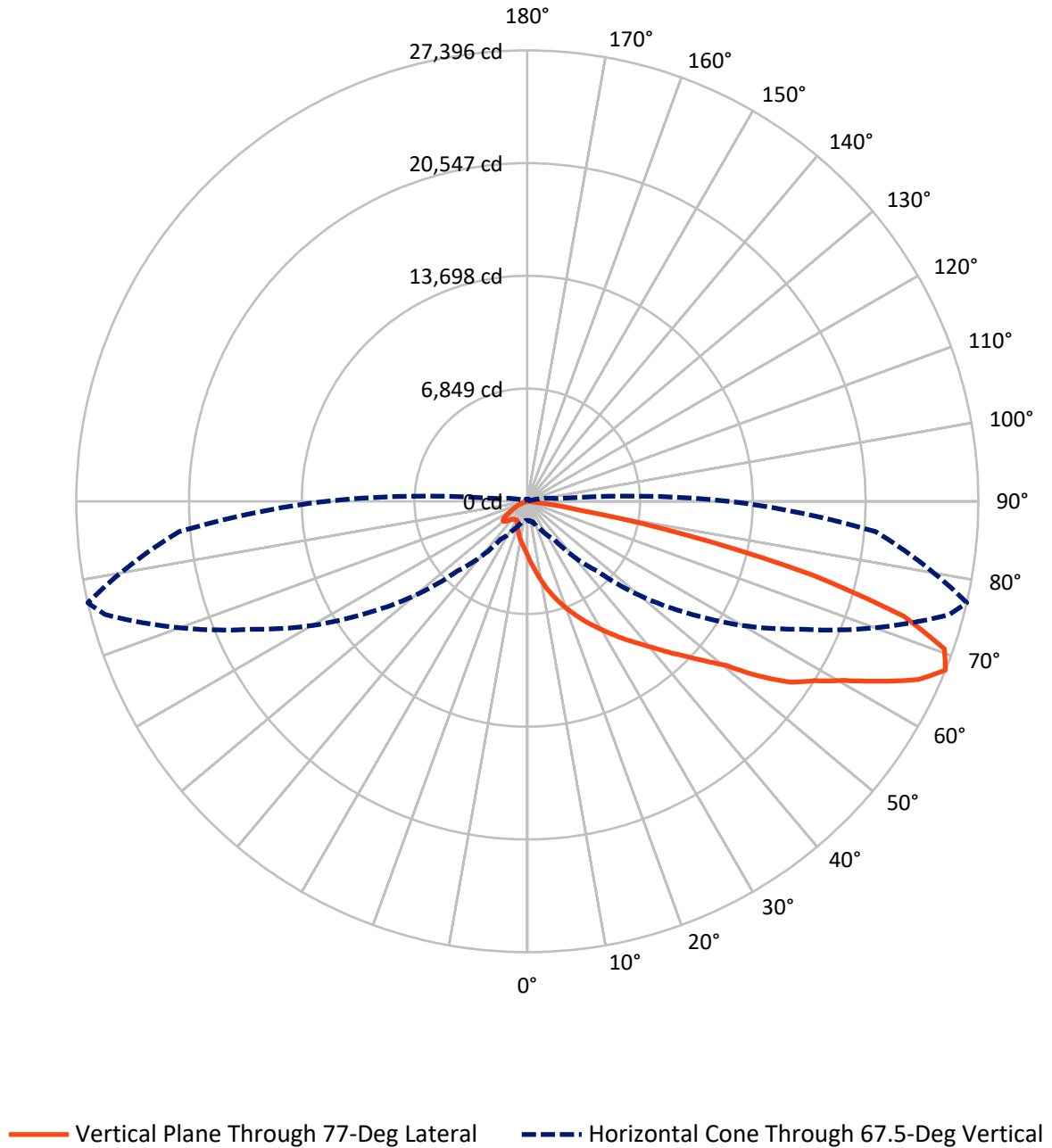
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P953495
CATALOG NUMBER: GALN-SB7A-740-U-T2R-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2102.3	0.0	2102.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	26473.6	0.0	26473.6
	% Fixture	92.6	0.0	92.6
Total	Lumens	28576.0	0.0	28576.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.3	1.2
10°-20°	1177.8	4.1
20°-30°	2272.8	8.0
30°-40°	3945.8	13.8
40°-50°	5729.0	20.0
50°-60°	6579.1	23.0
60°-70°	5711.8	20.0
70°-80°	2690.3	9.4
80°-90°	133.0	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°	28576.0	100.0
0°-180°	28576.0	100.0

Coefficient of Utilization



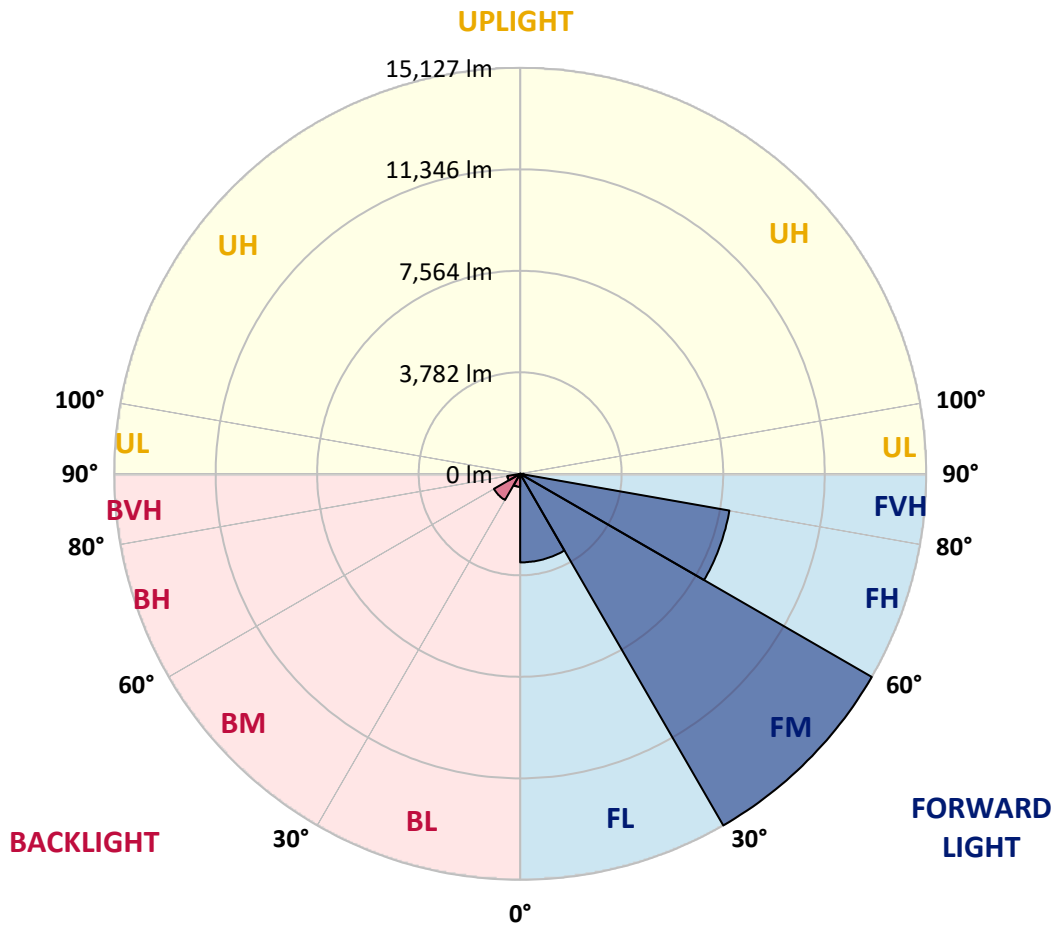
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3300.2	11.5			
FM (30°-60°)	15127.4	52.9			
FH (60°-80°)	7915.5	27.7			G4/12000
FVH (80°-90°)	130.6	0.5			G2/225
BL (0°-30°)	486.7	1.7	B1/500		
BM (30°-60°)	1126.5	3.9	B2/2500		
BH (60°-80°)	486.7	1.7	B1/500		G1/500
BVH (80°-90°)	2.4	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



REPORT NUMBER: P953495
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3295.2	3295.2	3295.2	3295.2	3295.2	3295.2	3295.2	3295.2	3295.2	3295.2
2.5°	4562.2	4590.6	4549.8	4471.7	4354.6	4278.3	4092.0	3916.3	3721.1	3659.0
5°	5561.3	5586.1	5540.0	5454.8	5298.6	5149.6	4904.7	4537.4	4155.9	4033.4
7.5°	6301.2	6315.4	6297.7	6219.6	6070.5	5902.0	5628.7	5193.9	4627.9	4493.0
10°	6833.6	6879.7	6874.4	6844.2	6744.8	6608.2	6317.2	5822.1	5156.7	4982.8
12.5°	7186.7	7238.2	7268.3	7335.8	7330.4	7243.5	6988.0	6464.5	5683.7	5479.6
15°	7289.6	7344.6	7460.0	7616.1	7754.5	7798.9	7619.7	7094.4	6264.0	6003.1
17.5°	7231.1	7316.2	7454.6	7701.3	8004.7	8205.3	8185.7	7703.1	6791.0	6492.9
20°	7360.6	7442.2	7550.5	7758.1	8111.2	8475.0	8620.5	8285.1	7314.5	7002.1
22.5°	8077.5	8063.3	8073.9	8107.7	8318.8	8679.0	8978.9	8813.9	7832.6	7513.2
25°	9213.2	9149.3	9041.0	8858.3	8805.0	8978.9	9291.2	9282.4	8379.2	8036.7
27.5°	10515.6	10505.0	10251.2	9811.2	9562.7	9495.3	9644.4	9738.4	8920.4	8554.8
30°	11763.1	11791.5	11449.0	10959.3	10503.2	10238.8	10104.0	10171.4	9470.5	9113.8
32.5°	12849.1	12879.3	12506.6	11933.5	11369.2	11049.8	10765.8	10599.0	10070.2	9681.6
35°	13766.5	13796.7	13369.0	12735.5	12134.0	11844.7	11523.6	11067.5	10673.6	10311.6
37.5°	14586.3	14577.5	14004.3	13365.5	12774.6	12545.7	12377.1	11644.2	11294.6	10945.1
40°	15070.8	15108.0	14618.3	13913.8	13340.6	13173.8	13163.2	12359.3	12011.5	11672.6
42.5°	15212.7	15278.4	14923.5	14345.0	13825.1	13644.1	13922.7	13133.0	12845.6	12515.5
45°	14957.2	15021.1	14859.6	14458.6	14155.1	14038.0	14575.7	13935.1	13736.3	13409.8
47.5°	14211.9	14291.8	14330.8	14245.6	14242.1	14361.0	15161.3	14779.7	14793.9	14460.3
50°	12769.2	12904.1	13262.6	13564.2	14030.9	14616.5	15730.9	15695.4	15986.4	15698.9
52.5°	10146.5	10338.2	11573.2	12398.4	13447.1	14568.6	16357.3	17164.7	18078.5	17658.0
55°	8153.8	8153.8	9158.2	10702.0	12307.9	14252.7	16630.5	18119.3	19503.4	19404.1
57.5°	6647.2	6727.1	7367.7	8732.3	10659.4	13500.3	16799.1	18719.1	20651.5	20578.8
60°	4102.6	4274.8	5485.0	6831.8	8783.7	12160.6	16692.7	19326.0	22044.5	22103.1
62.5°	2310.4	2374.3	2913.7	4915.3	6830.0	10359.5	15878.2	19664.9	23826.1	24074.5
65°	1595.3	1627.2	1834.8	3059.2	4734.3	8247.8	14286.4	19453.8	25611.3	26113.4
67.5°	1158.7	1174.7	1304.3	1868.5	2809.0	5980.0	11791.5	18389.1	26557.1	27396.4
70°	890.8	901.4	995.5	1227.9	1659.2	3690.9	8563.7	16272.1	25872.1	26874.7
72.5°	724.0	734.6	807.4	908.5	1100.2	2182.6	5190.4	13214.6	22848.4	23930.8
75°	610.4	624.6	690.3	755.9	862.4	1401.8	2434.6	9202.5	17182.4	17892.2
77.5°	338.9	312.3	560.7	626.4	727.5	887.2	1139.2	5415.8	9623.1	9820.0
80°	211.2	218.3	445.4	504.0	559.0	447.2	521.7	2085.0	3336.0	3169.2
82.5°	12.4	28.4	342.5	363.8	383.3	191.6	197.0	708.0	803.8	738.2
85°	0.0	0.0	156.2	126.0	133.1	55.0	56.8	165.0	108.2	117.1
87.5°	0.0	0.0	0.0	3.5	0.0	5.3	10.6	14.2	5.3	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953495
 CATALOG NUMBER: GALN-SB7A-740-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3295.2	0°	3295.2	3295.2	3295.2	3295.2	3295.2	3295.2	3295.2	3295.2	3295.2	3295.2
3463.8	2.5°	3339.6	3215.4	2963.4	2716.7	2516.2	2329.9	2196.8	2070.8	2007.0	2003.4
3687.4	5°	3440.7	3179.9	2675.9	2230.5	1872.1	1584.6	1398.3	1265.2	1197.8	1174.7
3962.4	7.5°	3582.7	3190.5	2424.0	1804.7	1382.3	1135.7	1029.2	986.6	972.4	956.5
4273.0	10°	3761.9	3215.4	2198.6	1453.3	1089.5	965.3	922.7	905.0	894.3	883.7
4622.6	12.5°	3962.4	3238.4	1975.0	1206.7	958.2	894.3	864.2	842.9	828.7	816.3
4981.0	15°	4157.6	3252.6	1742.6	1034.5	890.8	839.3	807.4	784.3	764.8	750.6
5332.4	17.5°	4351.1	3272.2	1524.3	931.6	835.8	784.3	752.4	724.0	708.0	692.1
5701.4	20°	4565.8	3268.6	1318.4	858.9	780.8	729.3	695.6	669.0	653.0	635.3
6091.8	22.5°	4764.5	3250.9	1137.4	796.7	724.0	674.3	637.0	610.4	594.5	580.3
6491.1	25°	4993.4	3236.7	986.6	740.0	670.8	621.1	580.3	555.4	537.7	525.2
6892.1	27.5°	5213.5	3215.4	876.6	688.5	619.3	571.4	532.3	504.0	488.0	479.1
7305.6	30°	5429.9	3210.1	835.8	638.8	573.2	525.2	486.2	459.6	447.2	443.6
7759.9	32.5°	5690.8	3224.3	853.5	621.1	530.6	482.7	445.4	425.9	413.5	413.5
8265.6	35°	5969.4	3220.7	880.1	637.0	502.2	440.1	411.7	399.3	386.8	386.8
8826.3	37.5°	6319.0	3226.0	901.4	663.7	491.5	404.6	388.6	372.6	365.5	365.5
9440.3	40°	6840.7	3401.7	890.8	686.7	488.0	379.7	347.8	342.5	337.2	337.2
10134.1	42.5°	7479.5	3783.2	905.0	688.5	486.2	362.0	319.4	330.1	317.6	315.9
10916.7	45°	8178.6	4200.2	995.5	651.2	484.4	353.1	305.2	317.6	298.1	298.1
11823.4	47.5°	8872.5	4613.7	1087.8	598.0	479.1	351.3	292.8	285.7	280.4	282.1
13005.3	50°	9828.9	4950.8	1123.3	525.2	466.7	347.8	269.7	271.5	267.9	271.5
14671.5	52.5°	10870.5	5021.8	1080.7	443.6	431.2	337.2	253.8	260.9	259.1	262.6
15844.4	55°	11520.0	4945.5	892.6	369.1	376.2	294.6	237.8	252.0	252.0	252.0
16990.8	57.5°	12190.8	4620.8	633.5	299.9	312.3	241.3	223.6	243.1	241.3	239.6
18371.3	60°	12673.4	4095.5	417.0	246.7	248.4	198.7	207.6	228.9	227.1	218.3
19794.5	62.5°	13033.6	3515.3	267.9	209.4	189.9	179.2	189.9	207.6	200.5	181.0
21001.1	65°	12992.8	2711.4	205.8	179.2	156.2	156.2	165.0	181.0	159.7	127.8
21231.8	67.5°	12235.1	1834.8	170.4	150.8	131.3	129.5	136.6	150.8	136.6	108.2
20050.0	70°	10881.2	1199.6	136.6	117.1	104.7	95.8	110.0	129.5	115.3	87.0
17068.8	72.5°	8831.6	731.1	102.9	85.2	76.3	62.1	87.0	106.5	92.3	63.9
11869.6	75°	5713.9	372.6	71.0	55.0	40.8	37.3	63.9	79.9	63.9	39.0
5266.7	77.5°	2186.2	156.2	39.0	24.8	21.3	17.7	35.5	47.9	26.6	8.9
1020.3	80°	420.6	65.7	19.5	12.4	10.6	7.1	5.3	3.5	0.0	0.0
181.0	82.5°	72.8	21.3	7.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0
35.5	85°	24.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.4	87.5°	8.9	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°
3295.2
1999.9
1171.2
952.9
880.1
812.7
748.8
690.3
633.5
578.5
523.5
479.1
441.8
413.5
386.8
365.5
337.2
314.1
298.1
282.1
271.5
262.6
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