

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: P950408

Luminaire Tested: **GALN-SB4D-840-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950408  
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-SB4D-840-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

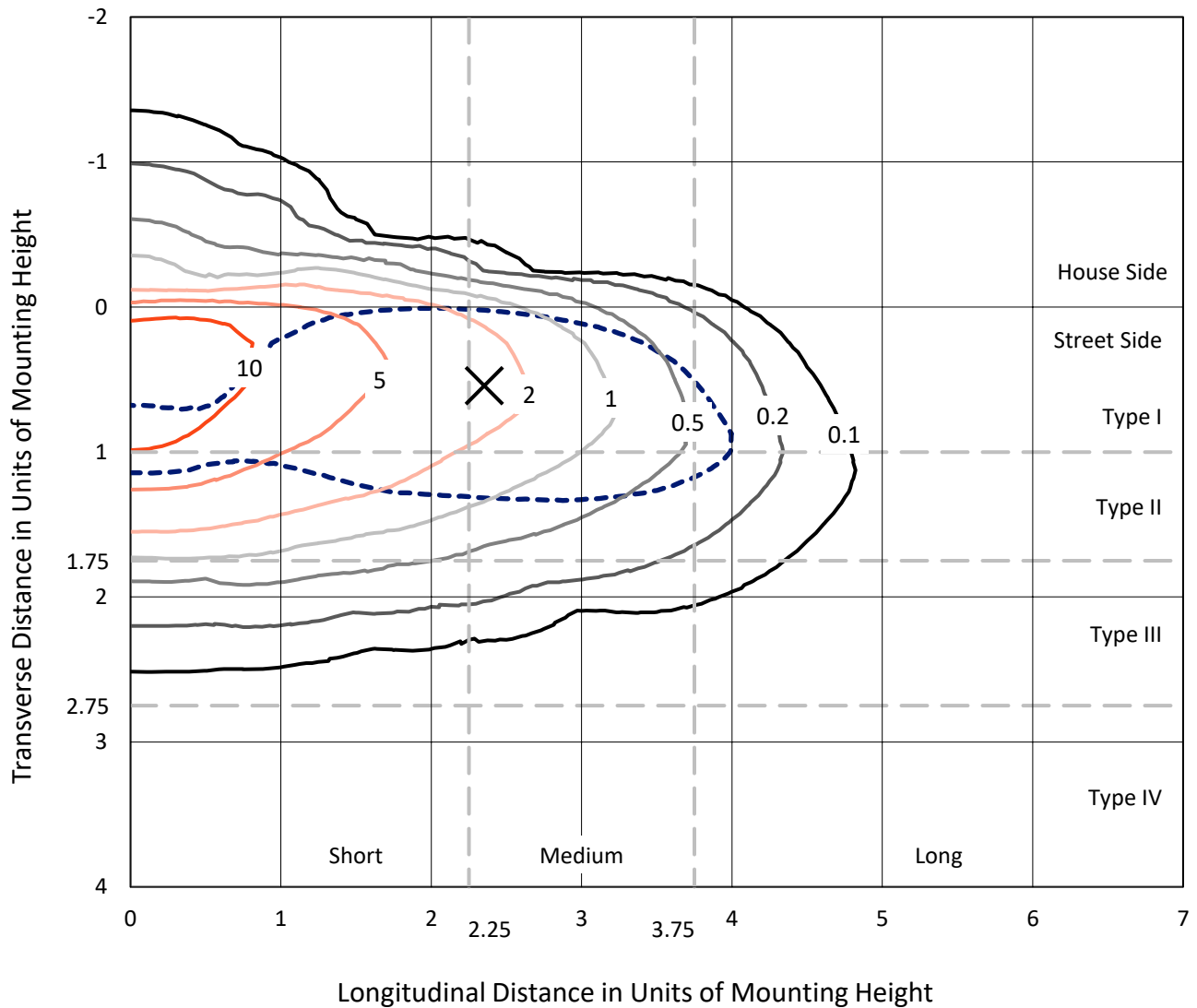
Lumens per Lamp: N/A  
Luminaire Lumens: 33029 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

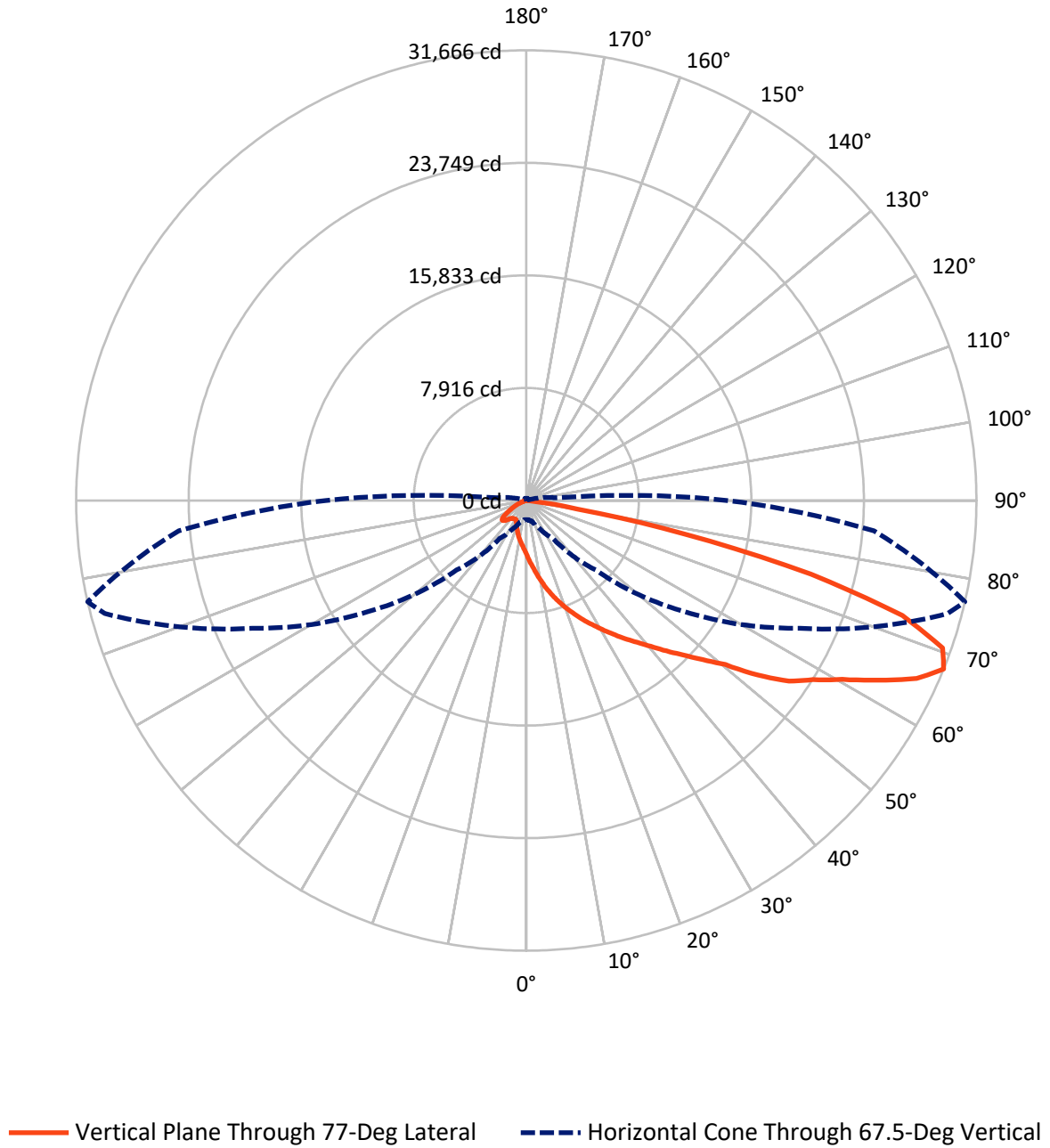
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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	2430.0	0.0	2430.0
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	30599.0	0.0	30599.0
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	33029.0	0.0	33029.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	388.7	1.2
10°-20°	1361.3	4.1
20°-30°	2627.0	8.0
30°-40°	4560.6	13.8
40°-50°	6621.8	20.0
50°-60°	7604.3	23.0
60°-70°	6601.9	20.0
70°-80°	3109.6	9.4
80°-90°	153.8	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°	33029.0	100.0
0°-180°	33029.0	100.0

**Coefficient of Utilization**



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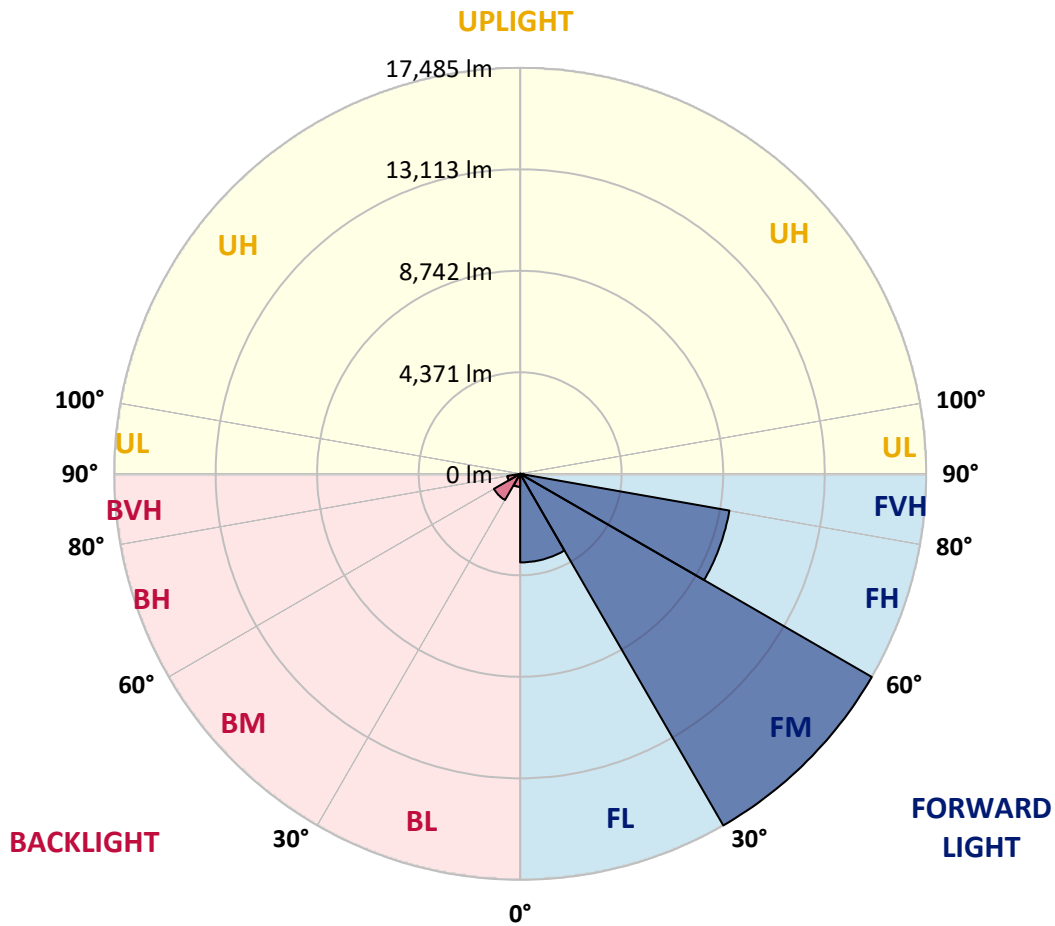
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3814.5	11.5			
FM (30°-60°)	17484.7	52.9			
FH (60°-80°)	9148.9	27.7			G4/12000
FVH (80°-90°)	151.0	0.5			G2/225
BL (0°-30°)	562.6	1.7	B2/1000		
BM (30°-60°)	1302.0	3.9	B2/2500		
BH (60°-80°)	562.6	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.8	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°	3808.7	3808.7	3808.7	3808.7	3808.7	3808.7	3808.7	3808.7	3808.7	3808.7
2.5°	5273.2	5306.0	5258.8	5168.6	5033.2	4945.0	4729.6	4526.6	4301.0	4229.2
5°	6427.9	6456.6	6403.3	6304.8	6124.3	5952.0	5669.0	5244.4	4803.5	4662.0
7.5°	7283.1	7299.6	7279.0	7188.8	7016.5	6821.7	6505.8	6003.3	5349.0	5193.2
10°	7898.4	7951.8	7945.6	7910.8	7795.9	7638.0	7301.6	6729.4	5960.2	5759.2
12.5°	8306.6	8366.1	8400.9	8478.9	8472.7	8372.2	8076.9	7471.8	6569.4	6333.5
15°	8425.6	8489.1	8622.5	8802.9	8962.9	9014.2	8807.0	8199.9	7240.1	6938.6
17.5°	8357.9	8456.3	8616.3	8901.4	9252.1	9483.9	9461.3	8903.4	7849.2	7504.7
20°	8507.6	8601.9	8727.1	8967.0	9375.2	9795.6	9963.8	9576.2	8454.3	8093.3
22.5°	9336.2	9319.8	9332.1	9371.1	9615.1	10031.5	10378.1	10187.4	9053.2	8684.0
25°	10648.9	10575.0	10449.9	10238.7	10177.1	10378.1	10739.1	10728.8	9684.9	9289.0
27.5°	12154.3	12142.0	11848.7	11340.0	11052.9	10975.0	11147.2	11256.0	10310.4	9887.9
30°	13596.2	13629.0	13233.1	12667.0	12139.9	11834.3	11678.5	11756.4	10946.3	10534.0
32.5°	14851.4	14886.2	14455.5	13793.1	13140.8	12771.7	12443.5	12250.7	11639.5	11190.3
35°	15911.8	15946.6	15452.3	14720.1	14024.8	13690.5	13319.3	12792.2	12336.8	11918.4
37.5°	16859.3	16849.1	16186.6	15448.2	14765.2	14500.7	14305.8	13458.7	13054.7	12650.6
40°	17419.2	17462.3	16896.2	16082.0	15419.5	15226.7	15214.4	14285.3	13883.3	13491.6
42.5°	17583.3	17659.2	17249.0	16580.4	15979.4	15770.2	16092.2	15179.5	14847.3	14465.8
45°	17288.0	17361.8	17175.2	16711.6	16360.9	16225.6	16847.0	16106.6	15876.9	15499.5
47.5°	16426.6	16518.9	16564.0	16465.5	16461.4	16598.8	17523.8	17082.9	17099.3	16713.7
50°	14759.1	14915.0	15329.3	15677.9	16217.4	16894.2	18182.2	18141.2	18477.6	18145.3
52.5°	11727.7	11949.2	13376.7	14330.4	15542.6	16838.8	18906.2	19839.4	20895.7	20409.6
55°	9424.4	9424.4	10585.3	12369.7	14225.8	16473.7	19222.1	20942.9	22542.7	22427.8
57.5°	7683.1	7775.4	8515.8	10093.0	12320.4	15604.1	19416.9	21636.1	23869.7	23785.6
60°	4741.9	4940.9	6339.7	7896.4	10152.5	14055.6	19293.9	22337.6	25479.7	25547.4
62.5°	2670.4	2744.3	3367.8	5681.3	7894.3	11973.8	18352.5	22729.3	27538.9	27826.1
65°	1843.9	1880.8	2120.7	3535.9	5472.1	9533.1	16512.7	22485.2	29602.3	30182.7
67.5°	1339.3	1357.8	1507.5	2159.7	3246.8	6911.9	13629.0	21254.6	30695.4	31665.6
70°	1029.6	1041.9	1150.6	1419.3	1917.7	4266.1	9898.2	18807.8	29903.8	31062.6
72.5°	836.8	849.1	933.2	1050.1	1271.6	2522.7	5999.2	15273.9	26408.8	27659.9
75°	705.5	722.0	797.8	873.7	996.8	1620.3	2814.0	10636.5	19859.9	20680.4
77.5°	391.7	361.0	648.1	724.0	840.9	1025.5	1316.7	6259.7	11122.6	11350.3
80°	244.1	252.3	514.8	582.5	646.1	516.9	603.0	2409.9	3855.9	3663.1
82.5°	14.4	32.8	395.8	420.5	443.0	221.5	227.7	818.4	929.1	853.2
85°	0.0	0.0	180.5	145.6	153.8	63.6	65.6	190.7	125.1	135.4
87.5°	0.0	0.0	0.0	4.1	0.0	6.2	12.3	16.4	6.2	8.2
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°
3808.7	0°	3808.7	3808.7	3808.7	3808.7	3808.7	3808.7	3808.7	3808.7	3808.7	3808.7
4003.6	2.5°	3860.0	3716.4	3425.2	3140.1	2908.3	2693.0	2539.2	2393.5	2319.7	2315.6
4262.0	5°	3976.9	3675.4	3092.9	2578.1	2163.8	1831.6	1616.2	1462.4	1384.4	1357.8
4579.9	7.5°	4141.0	3687.7	2801.7	2085.9	1597.7	1312.6	1189.6	1140.4	1124.0	1105.5
4938.8	10°	4348.1	3716.4	2541.2	1679.8	1259.3	1115.8	1066.5	1046.0	1033.7	1021.4
5342.9	12.5°	4579.9	3743.1	2282.8	1394.7	1107.5	1033.7	998.8	974.2	957.8	943.5
5757.2	15°	4805.5	3759.5	2014.1	1195.7	1029.6	970.1	933.2	906.5	884.0	867.6
6163.3	17.5°	5029.1	3782.1	1761.8	1076.8	966.0	906.5	869.6	836.8	818.4	799.9
6589.9	20°	5277.3	3778.0	1523.9	992.7	902.4	843.0	804.0	773.2	754.8	734.3
7041.1	22.5°	5507.0	3757.5	1314.7	920.9	836.8	779.4	736.3	705.5	687.1	670.7
7502.6	25°	5771.5	3741.0	1140.4	855.3	775.3	717.9	670.7	642.0	621.5	607.1
7966.1	27.5°	6025.9	3716.4	1013.2	795.8	715.8	660.4	615.3	582.5	564.0	553.8
8444.0	30°	6276.1	3710.3	966.0	738.4	662.5	607.1	562.0	531.2	516.9	512.8
8969.1	32.5°	6577.6	3726.7	986.5	717.9	613.3	557.9	514.8	492.2	477.9	477.9
9553.6	35°	6899.6	3722.6	1017.3	736.3	580.4	508.7	475.8	461.5	447.1	447.1
10201.7	37.5°	7303.7	3728.7	1041.9	767.1	568.1	467.6	449.2	430.7	422.5	422.5
10911.4	40°	7906.7	3931.8	1029.6	793.7	564.0	438.9	402.0	395.8	389.7	389.7
11713.3	42.5°	8645.0	4372.8	1046.0	795.8	562.0	418.4	369.2	381.5	367.1	365.1
12617.8	45°	9453.1	4854.7	1150.6	752.7	559.9	408.2	352.8	367.1	344.6	344.6
13665.9	47.5°	10255.1	5332.6	1257.3	691.2	553.8	406.1	338.4	330.2	324.1	326.1
15031.9	50°	11360.6	5722.3	1298.3	607.1	539.4	402.0	311.8	313.8	309.7	313.8
16957.8	52.5°	12564.5	5804.4	1249.1	512.8	498.4	389.7	293.3	301.5	299.4	303.5
18313.5	55°	13315.2	5716.2	1031.7	426.6	434.8	340.5	274.8	291.2	291.2	291.2
19638.4	57.5°	14090.5	5340.8	732.2	346.6	361.0	278.9	258.4	281.0	278.9	276.9
21234.1	60°	14648.3	4733.7	482.0	285.1	287.1	229.7	240.0	264.6	262.5	252.3
22879.0	62.5°	15064.7	4063.1	309.7	242.0	219.5	207.2	219.5	240.0	231.8	209.2
24273.7	65°	15017.5	3133.9	237.9	207.2	180.5	180.5	190.7	209.2	184.6	147.7
24540.4	67.5°	14141.7	2120.7	196.9	174.3	151.8	149.7	157.9	174.3	157.9	125.1
23174.4	70°	12576.8	1386.5	157.9	135.4	121.0	110.8	127.2	149.7	133.3	100.5
19728.7	72.5°	10207.9	845.0	119.0	98.4	88.2	71.8	100.5	123.1	106.7	73.8
13719.2	75°	6604.3	430.7	82.0	63.6	47.2	43.1	73.8	92.3	73.8	45.1
6087.4	77.5°	2526.8	180.5	45.1	28.7	24.6	20.5	41.0	55.4	30.8	10.3
1179.3	80°	486.1	75.9	22.6	14.4	12.3	8.2	6.2	4.1	0.0	0.0
209.2	82.5°	84.1	24.6	8.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
41.0	85°	28.7	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.4	87.5°	10.3	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°
3808.7
2311.5
1353.7
1101.4
1017.3
939.4
865.5
797.8
732.2
668.6
605.0
553.8
510.7
477.9
447.1
422.5
389.7
363.0
344.6
326.1
313.8
303.5
291.2
276.9
252.3
205.1
143.6
121.0
96.4
69.7
39.0
8.2
0.0
0.0
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