

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: P943938

Luminaire Tested: **GALN-SB8C-927-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943938  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8C-927-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

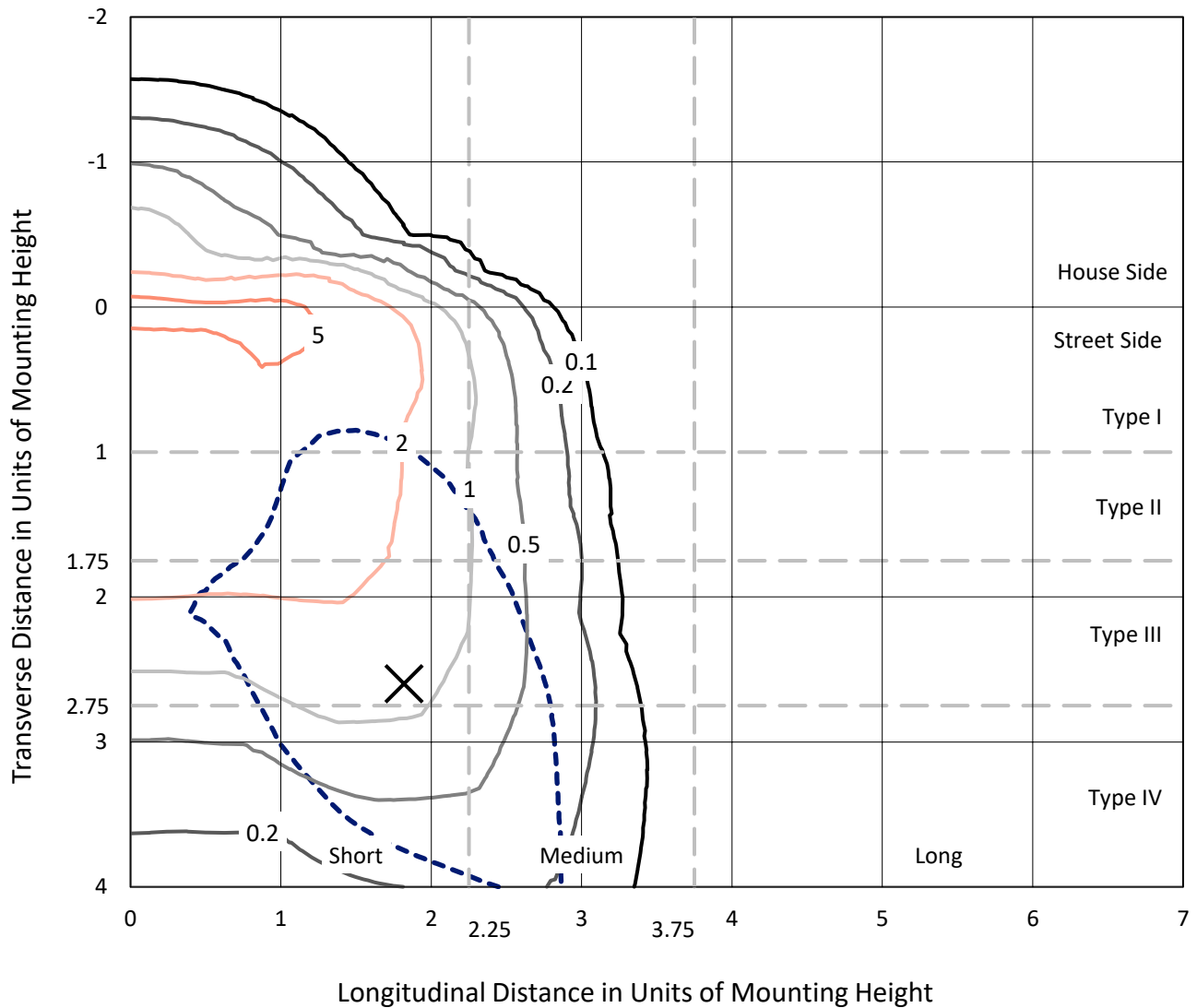
Lumens per Lamp: N/A  
Luminaire Lumens: 27909 lumens  
Efficiency: N/A  
Efficacy: 69.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

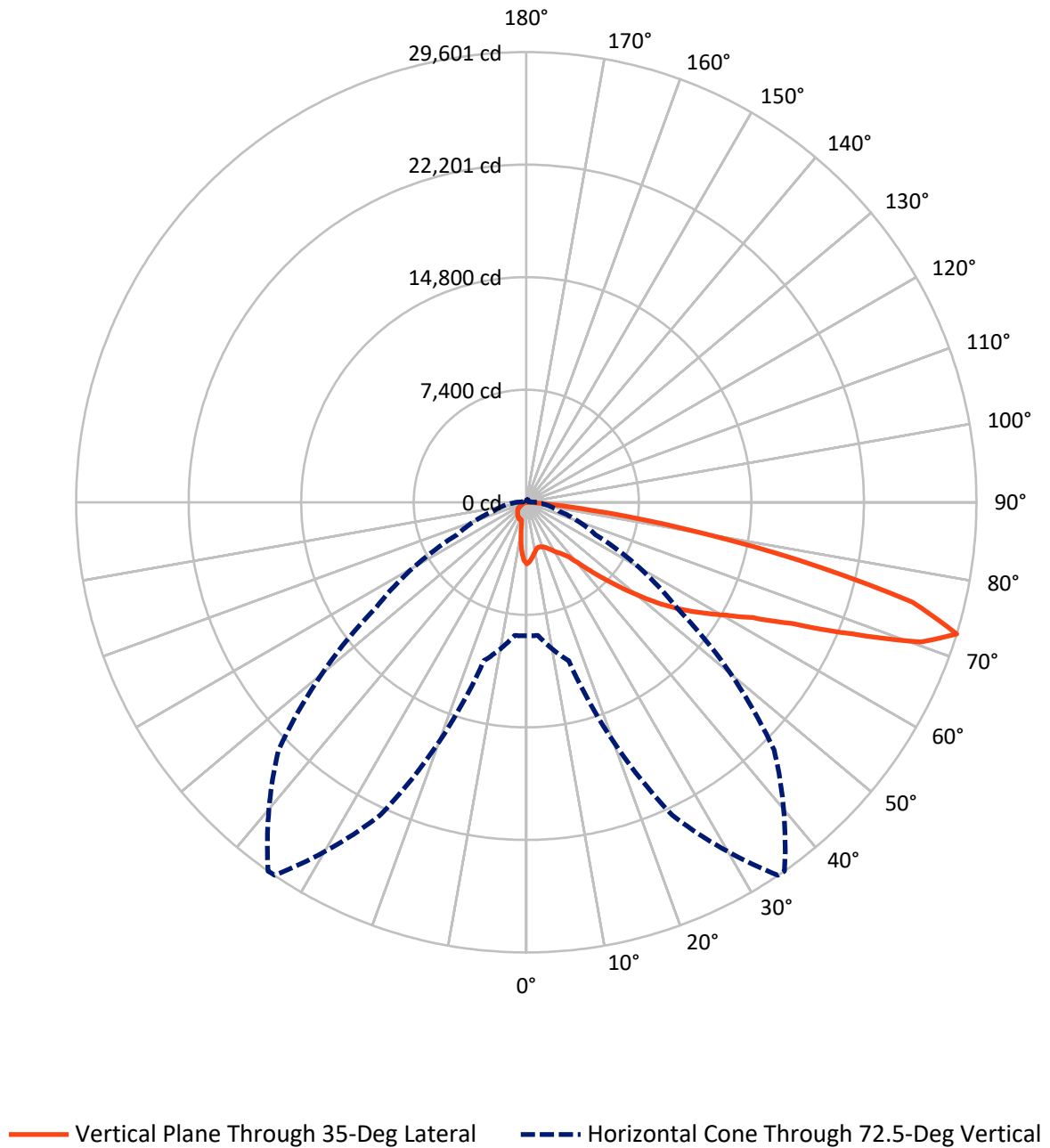
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3141.0	0.0	3141.0
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	24768.0	0.0	24768.0
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	27909.0	0.0	27909.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	332.4	1.2
10°-20°	777.6	2.8
20°-30°	1263.2	4.5
30°-40°	2107.6	7.6
40°-50°	3987.6	14.3
50°-60°	6336.2	22.7
60°-70°	7838.4	28.1
70°-80°	4872.4	17.5
80°-90°	393.8	1.4
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°	27909.0	100.0
0°-180°	27909.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P943938

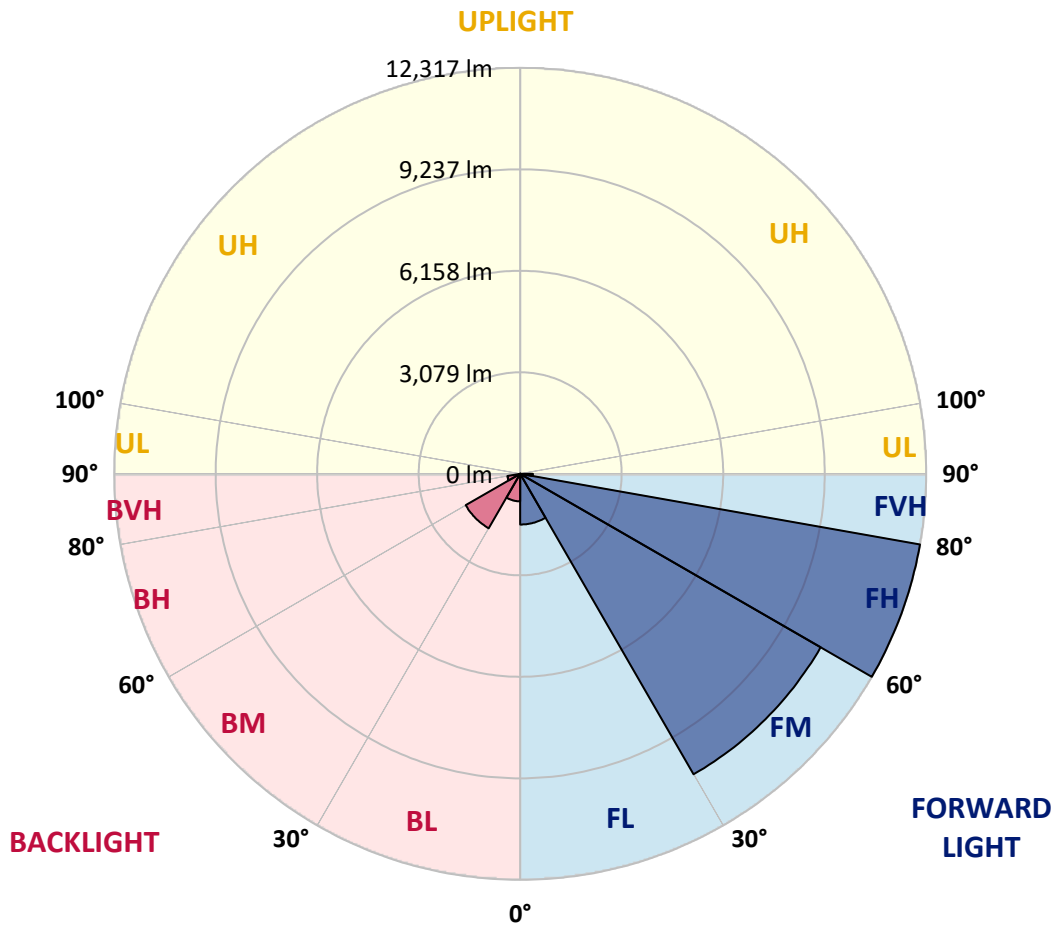
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1538.5	5.5			
FM (30°-60°)	10524.5	37.7			
FH (60°-80°)	12316.6	44.1			G5
FVH (80°-90°)	388.4	1.4			G3/500
BL (0°-30°)	834.6	3.0	B2/1000		
BM (30°-60°)	1906.9	6.8	B2/2500		
BH (60°-80°)	394.1	1.4	B1/500		G1/500
BVH (80°-90°)	5.4	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-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9
2.5°	3865.0	3897.7	3903.8	3914.1	3914.1	3926.3	3946.8	3975.4	4022.5	4047.0
5°	3562.3	3586.9	3617.6	3642.1	3689.1	3695.3	3775.0	3852.7	3961.1	4042.9
7.5°	3257.6	3286.3	3327.2	3386.5	3447.8	3466.2	3586.9	3717.8	3889.5	4042.9
10°	3042.9	3045.0	3081.8	3141.1	3239.2	3261.7	3409.0	3595.1	3809.8	4018.4
12.5°	2922.3	2936.6	2952.9	2997.9	3092.0	3106.3	3263.8	3482.6	3730.0	4004.1
15°	2922.3	2932.5	2942.7	2965.2	3040.9	3053.1	3192.2	3411.0	3689.1	4010.2
17.5°	2952.9	2969.3	2961.1	2987.7	3067.5	3075.6	3198.3	3390.6	3687.1	4049.0
20°	3026.6	3038.8	3022.5	3038.8	3118.6	3134.9	3261.7	3429.4	3721.8	4116.5
22.5°	3143.1	3149.3	3110.4	3122.7	3204.5	3224.9	3372.2	3539.8	3805.7	4224.9
25°	3290.4	3302.6	3243.3	3257.6	3335.3	3359.9	3529.6	3705.5	3938.6	4374.2
27.5°	3460.1	3466.2	3415.1	3413.1	3513.3	3548.0	3719.8	3910.0	4116.5	4562.3
30°	3654.4	3672.8	3623.7	3615.5	3742.3	3770.9	3940.7	4161.5	4378.3	4844.5
32.5°	3807.7	3822.0	3793.4	3813.9	3942.7	3965.2	4208.5	4517.3	4789.3	5245.3
35°	4028.6	4036.8	3971.3	4008.1	4155.4	4212.6	4574.6	5016.3	5306.7	5748.4
37.5°	4828.2	4828.2	4550.1	4368.1	4509.2	4560.3	5075.6	5644.1	5944.7	6423.2
40°	5934.5	5916.1	5509.1	5137.0	5118.6	5218.8	5789.3	6435.5	6768.8	7233.1
42.5°	7114.4	7085.8	6531.6	6163.5	6102.2	6137.0	6613.4	7411.0	7750.4	8220.8
45°	8161.5	8153.3	7646.1	7151.3	7040.8	7151.3	7642.1	8552.1	8795.4	9290.3
47.5°	9038.8	9038.8	8668.6	8345.5	8288.3	8353.7	9034.7	9817.9	9795.4	10429.3
50°	10049.0	10040.8	9689.1	9550.0	9609.3	9701.3	10637.9	11151.2	10830.2	11547.9
52.5°	10756.5	10805.6	10685.0	10662.5	10965.1	11124.6	12265.7	12455.9	11756.5	12609.3
55°	11316.9	11374.1	11513.2	11670.6	12253.5	12462.0	13842.4	13693.1	12531.6	13529.5
57.5°	12110.3	12028.5	12243.2	12554.1	13496.8	13748.3	15370.0	14860.8	13155.3	14275.9
60°	13073.5	13085.8	13122.6	13515.2	14738.1	15061.2	16875.1	15965.1	13556.1	14734.0
62.5°	14230.9	14249.3	14325.0	14928.3	16404.7	16709.4	18478.3	16869.0	13740.2	14605.2
65°	14151.2	14228.9	15073.5	17136.8	18938.5	19239.1	20349.5	17502.9	13462.0	13427.3
67.5°	12891.5	13018.3	14431.4	19774.9	22758.5	23093.8	22611.2	17627.6	12261.6	10441.6
70°	11239.2	11284.1	12983.5	22147.0	27181.7	27521.2	24635.7	16255.5	9304.6	5824.1
72.5°	8777.0	8787.2	10781.1	22697.1	29582.5	29600.9	23046.8	12067.4	5004.0	2237.2
75°	6269.9	6208.5	7220.8	18406.8	26026.3	26234.9	17277.9	5660.5	1912.0	1057.2
77.5°	3361.9	3429.4	4085.8	10916.0	17979.4	18335.2	9427.3	1631.9	973.4	719.8
80°	1038.8	1096.1	1674.8	4997.9	10183.9	10398.7	3494.9	726.0	678.9	513.3
82.5°	327.2	339.5	781.2	2100.2	4227.0	4325.1	1012.3	411.0	464.2	339.5
85°	94.1	96.1	347.6	783.2	1045.0	1065.4	284.3	159.5	265.8	210.6
87.5°	10.2	32.7	130.9	130.9	92.0	90.0	30.7	34.8	75.7	26.6
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°
4044.9	0°	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9	4044.9
4063.4	2.5°	4053.1	4055.2	4028.6	3983.6	3934.5	3893.6	3842.5	3801.6	3773.0	3764.8
4100.2	5°	4081.8	4067.4	3991.8	3854.8	3691.2	3550.1	3392.6	3267.9	3186.1	3151.3
4139.0	7.5°	4124.7	4083.8	3918.2	3648.2	3335.3	3057.2	2775.0	2556.2	2417.2	2347.6
4175.8	10°	4161.5	4079.7	3795.5	3349.7	2871.1	2449.9	2069.5	1805.7	1658.5	1588.9
4218.8	12.5°	4196.3	4077.7	3636.0	2995.9	2347.6	1832.3	1478.5	1347.6	1306.7	1292.4
4288.3	15°	4261.7	4083.8	3435.5	2591.0	1826.2	1384.4	1255.6	1253.6	1261.7	1257.7
4394.6	17.5°	4351.7	4089.9	3208.6	2161.5	1409.0	1220.8	1214.7	1233.1	1245.4	1239.3
4527.6	20°	4468.3	4114.5	2967.3	1736.2	1210.6	1179.9	1194.3	1210.6	1220.8	1210.6
4705.5	22.5°	4631.9	4157.4	2703.4	1394.7	1147.2	1155.4	1167.7	1186.1	1196.3	1182.0
4932.5	25°	4832.3	4224.9	2443.7	1212.7	1116.6	1126.8	1145.2	1165.6	1177.9	1163.6
5218.8	27.5°	5092.0	4333.3	2204.5	1171.8	1085.9	1092.0	1118.6	1149.3	1165.6	1147.2
5625.7	30°	5468.2	4511.2	1997.9	1190.2	1067.5	1053.2	1090.0	1132.9	1151.3	1135.0
6179.9	32.5°	5967.2	4762.7	1871.1	1218.8	1059.3	1008.2	1042.9	1098.1	1128.8	1118.6
6903.8	35°	6621.6	5145.1	1822.1	1251.5	1053.2	961.1	985.7	1045.0	1098.1	1108.4
7815.9	37.5°	7415.1	5676.8	1836.4	1265.8	1034.8	922.3	934.6	985.7	1055.2	1087.9
8842.4	40°	8316.9	6296.5	1918.2	1251.5	1014.3	889.6	891.6	930.5	991.8	1040.9
9946.7	42.5°	9247.4	7020.4	2069.5	1198.4	995.9	860.9	854.8	881.4	922.3	957.0
11049.0	45°	10132.8	7764.7	2218.8	1124.7	973.4	832.3	818.0	828.2	836.4	850.7
12122.6	47.5°	10905.8	8288.3	2175.8	1057.2	942.7	799.6	775.0	771.0	746.4	744.4
13081.7	50°	11439.6	8402.8	1932.5	989.8	897.7	762.8	723.9	699.4	656.4	636.0
13799.5	52.5°	11609.3	7950.8	1578.7	922.3	824.1	713.7	658.5	619.6	566.5	548.1
14212.5	55°	11384.3	7065.4	1261.7	840.5	721.9	648.3	586.9	535.8	492.8	470.3
14257.5	57.5°	10834.2	5938.6	997.9	744.4	613.5	574.6	513.3	462.2	425.4	402.9
13758.6	60°	9922.2	4715.7	789.4	629.9	523.5	494.9	431.5	398.8	366.0	339.5
12470.2	62.5°	8537.7	3366.0	619.6	499.0	437.6	404.9	368.1	343.6	304.7	267.9
10153.3	65°	6662.5	2059.3	478.5	366.0	351.7	335.4	312.9	290.4	243.4	206.5
6623.7	67.5°	4202.4	975.5	341.5	276.1	278.1	269.9	259.7	241.3	206.5	173.8
2967.3	70°	1850.7	472.4	224.9	210.6	206.5	206.5	214.7	208.6	175.9	145.2
1030.7	72.5°	629.9	253.6	167.7	159.5	149.3	147.2	180.0	173.8	141.1	112.5
513.3	75°	329.2	169.7	122.7	114.5	90.0	108.4	143.1	135.0	100.2	73.6
339.5	77.5°	214.7	120.7	83.8	73.6	51.1	71.6	106.3	94.1	59.3	36.8
222.9	80°	135.0	79.8	49.1	34.8	24.5	38.9	57.3	40.9	22.5	8.2
130.9	82.5°	71.6	40.9	18.4	12.3	10.2	12.3	14.3	10.2	4.1	0.0
67.5	85°	28.6	14.3	6.1	4.1	2.0	0.0	4.1	2.0	0.0	0.0
12.3	87.5°	10.2	2.0	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

<u>180°</u>
4044.9
3779.1
3163.6
2357.8
1591.0
1288.3
1255.6
1237.2
1208.6
1179.9
1161.5
1147.2
1132.9
1118.6
1108.4
1096.1
1057.2
971.4
858.9
742.3
638.0
546.0
470.3
398.8
333.3
261.8
200.4
169.7
139.1
106.3
67.5
32.7
6.1
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