

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: P944198

Luminaire Tested: **GALN-SB9A-740-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944198
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-SB9A-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 350mA 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: 32729 lumens
Efficiency: N/A
Efficacy: 128.1 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

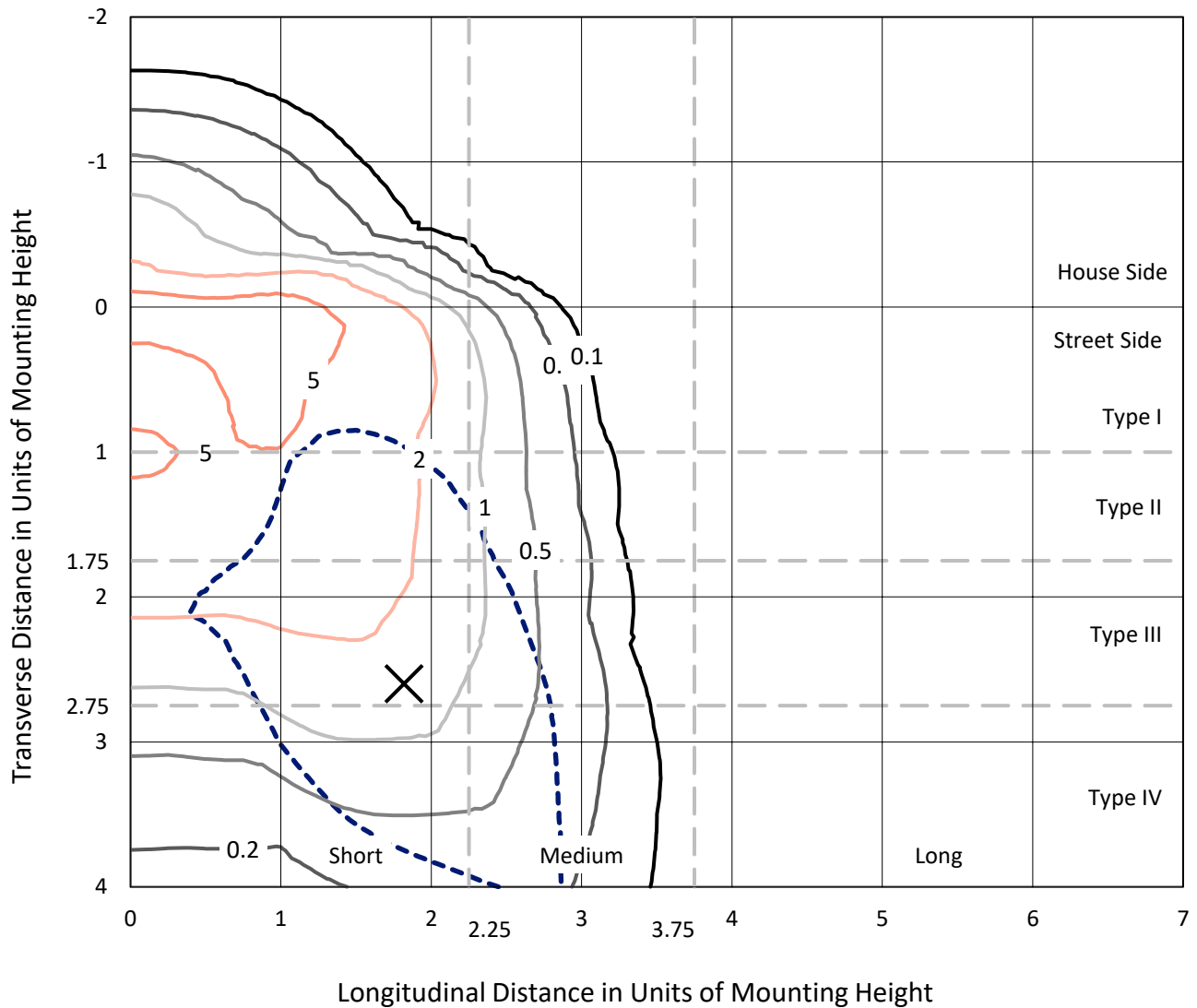
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

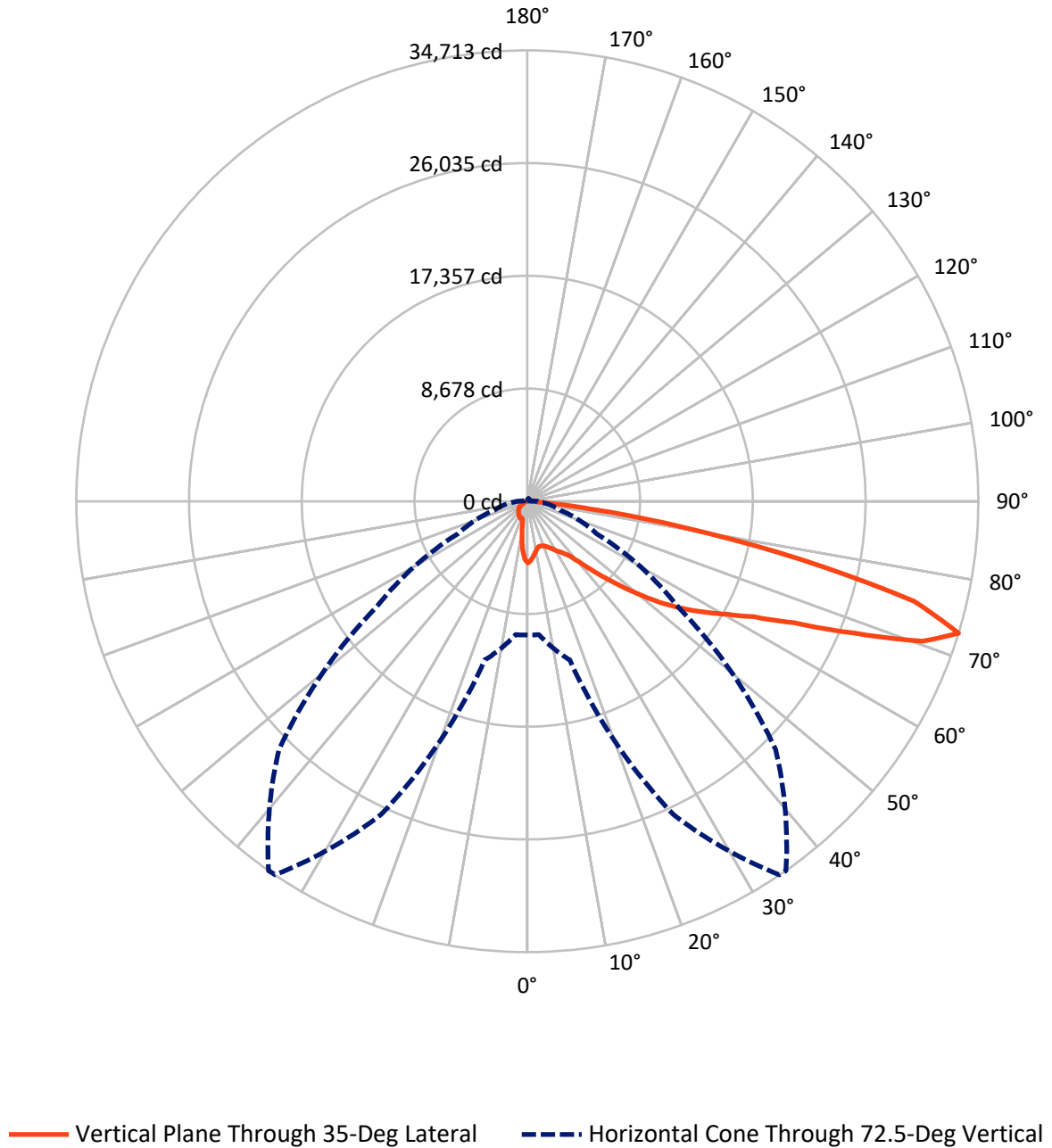
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3683.5	0.0	3683.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	29045.5	0.0	29045.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	32729.0	0.0	32729.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.8	1.2
10°-20°	911.9	2.8
20°-30°	1481.3	4.5
30°-40°	2471.6	7.6
40°-50°	4676.2	14.3
50°-60°	7430.5	22.7
60°-70°	9192.1	28.1
70°-80°	5713.9	17.5
80°-90°	461.8	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°	32729.0	100.0
0°-180°	32729.0	100.0

Coefficient of Utilization



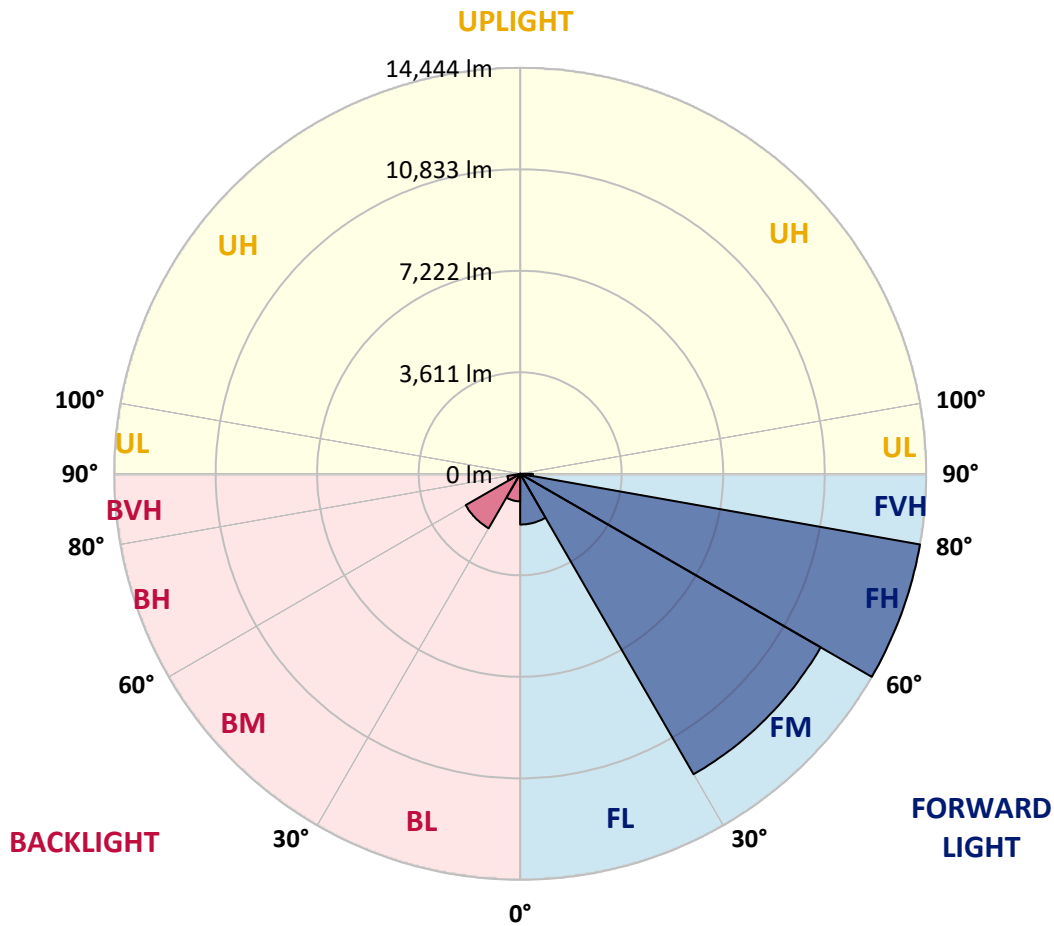
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1804.2	5.5			
FM (30°-60°)	12342.1	37.7			
FH (60°-80°)	14443.7	44.1			G5
FVH (80°-90°)	455.5	1.4			G3/500
BL (0°-30°)	978.8	3.0	B2/1000		
BM (30°-60°)	2236.2	6.8	B2/2500		
BH (60°-80°)	462.2	1.4	B1/500		G1/500
BVH (80°-90°)	6.3	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°	4743.5	4743.5	4743.5	4743.5	4743.5	4743.5	4743.5	4743.5	4743.5	4743.5
2.5°	4532.5	4570.9	4578.1	4590.0	4590.0	4604.4	4628.4	4662.0	4717.1	4745.9
5°	4177.6	4206.3	4242.3	4271.1	4326.3	4333.4	4427.0	4518.1	4645.2	4741.1
7.5°	3820.2	3853.8	3901.8	3971.3	4043.3	4064.9	4206.3	4359.8	4561.3	4741.1
10°	3568.4	3570.8	3614.0	3683.5	3798.7	3825.0	3997.7	4215.9	4467.7	4712.4
12.5°	3426.9	3443.7	3462.9	3515.7	3626.0	3642.8	3827.4	4084.0	4374.2	4695.6
15°	3426.9	3438.9	3450.9	3477.3	3566.0	3580.4	3743.5	4000.1	4326.3	4702.8
17.5°	3462.9	3482.1	3472.5	3503.7	3597.2	3606.8	3750.7	3976.1	4323.9	4748.3
20°	3549.3	3563.6	3544.5	3563.6	3657.2	3676.4	3825.0	4021.7	4364.6	4827.5
22.5°	3685.9	3693.1	3647.6	3662.0	3757.9	3781.9	3954.5	4151.2	4462.9	4954.6
25°	3858.6	3873.0	3803.5	3820.2	3911.4	3940.2	4139.2	4345.4	4618.8	5129.6
27.5°	4057.7	4064.9	4004.9	4002.5	4120.0	4160.8	4362.2	4585.3	4827.5	5350.3
30°	4285.5	4307.1	4249.5	4239.9	4388.6	4422.2	4621.2	4880.2	5134.4	5681.2
32.5°	4465.3	4482.1	4448.6	4472.5	4623.6	4650.0	4935.4	5297.5	5616.5	6151.2
35°	4724.3	4733.9	4657.2	4700.4	4873.0	4940.2	5364.6	5882.6	6223.2	6741.2
37.5°	5662.0	5662.0	5335.9	5122.4	5287.9	5347.9	5952.2	6618.9	6971.4	7532.6
40°	6959.4	6937.8	6460.6	6024.1	6002.6	6120.1	6789.1	7547.0	7937.9	8482.2
42.5°	8343.1	8309.6	7659.7	7228.0	7156.1	7196.8	7755.6	8690.9	9089.0	9640.5
45°	9571.0	9561.4	8966.7	8386.3	8256.8	8386.3	8961.9	10029.0	10314.4	10894.8
47.5°	10599.8	10599.8	10165.7	9786.8	9719.7	9796.4	10595.0	11513.5	11487.1	12230.5
50°	11784.5	11774.9	11362.4	11199.3	11268.9	11376.8	12475.1	13077.1	12700.6	13542.3
52.5°	12614.2	12671.8	12530.3	12503.9	12858.8	13045.9	14384.1	14607.1	13786.9	14787.0
55°	13271.3	13338.5	13501.6	13686.2	14369.7	14614.3	16233.0	16058.0	14695.8	15866.1
57.5°	14201.8	14105.9	14357.7	14722.2	15827.8	16122.7	18024.5	17427.3	15427.3	16741.4
60°	15331.3	15345.7	15388.9	15849.3	17283.4	17662.3	19789.5	18722.3	15897.3	17278.6
62.5°	16688.7	16710.3	16799.0	17506.5	19237.9	19595.2	21669.6	19782.3	16113.1	17127.5
65°	16595.2	16686.3	17676.7	20096.4	22209.2	22561.7	23863.9	20525.7	15787.0	15746.2
67.5°	15117.9	15266.6	16923.7	23190.1	26688.9	27082.2	26516.3	20672.0	14379.3	12244.9
70°	13180.2	13233.0	15225.8	25971.9	31876.1	32274.2	28890.4	19062.8	10911.6	6829.9
72.5°	10292.8	10304.8	12643.0	26617.0	34691.6	34713.1	27027.1	14151.4	5868.3	2623.6
75°	7352.7	7280.8	8467.8	21585.7	30521.2	30765.8	20261.9	6638.1	2242.3	1239.8
77.5°	3942.5	4021.7	4791.5	12801.3	21084.5	21501.8	11055.4	1913.7	1141.5	844.1
80°	1218.3	1285.4	1964.1	5861.1	11942.8	12194.6	4098.4	851.3	796.2	601.9
82.5°	383.7	398.1	916.1	2462.9	4957.0	5072.1	1187.1	482.0	544.4	398.1
85°	110.3	112.7	407.7	918.5	1225.5	1249.4	333.3	187.1	311.8	247.0
87.5°	12.0	38.4	153.5	153.5	107.9	105.5	36.0	40.8	88.7	31.2
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°
4743.5	0°	4743.5	4743.5	4743.5	4743.5	4743.5	4743.5	4743.5	4743.5	4743.5	4743.5
4765.1	2.5°	4753.1	4755.5	4724.3	4671.6	4614.0	4566.1	4506.1	4458.2	4424.6	4415.0
4808.3	5°	4786.7	4769.9	4681.2	4520.5	4328.7	4163.2	3978.5	3832.2	3736.3	3695.5
4853.8	7.5°	4837.1	4789.1	4594.8	4278.3	3911.4	3585.2	3254.3	2997.7	2834.6	2753.1
4897.0	10°	4880.2	4784.3	4451.0	3928.2	3367.0	2873.0	2426.9	2117.6	1944.9	1863.4
4947.4	12.5°	4921.0	4781.9	4263.9	3513.3	2753.1	2148.7	1733.9	1580.4	1532.4	1515.6
5028.9	15°	4997.7	4789.1	4028.9	3038.4	2141.5	1623.5	1472.5	1470.1	1479.7	1474.9
5153.6	17.5°	5103.3	4796.3	3762.7	2534.8	1652.3	1431.7	1424.5	1446.1	1460.5	1453.3
5309.5	20°	5239.9	4825.1	3479.7	2036.0	1419.7	1383.7	1400.5	1419.7	1431.7	1419.7
5518.1	22.5°	5431.8	4875.4	3170.3	1635.5	1345.4	1355.0	1369.3	1390.9	1402.9	1386.1
5784.3	25°	5666.8	4954.6	2865.8	1422.1	1309.4	1321.4	1343.0	1366.9	1381.3	1364.5
6120.1	27.5°	5971.4	5081.7	2585.2	1374.1	1273.4	1280.6	1311.8	1347.8	1366.9	1345.4
6597.3	30°	6412.6	5290.3	2343.0	1395.7	1251.8	1235.0	1278.2	1328.6	1350.2	1331.0
7247.2	32.5°	6997.8	5585.3	2194.3	1429.3	1242.2	1182.3	1223.1	1287.8	1323.8	1311.8
8096.1	35°	7765.2	6033.7	2136.7	1467.7	1235.0	1127.1	1155.9	1225.5	1287.8	1299.8
9165.7	37.5°	8695.7	6657.2	2153.5	1484.5	1213.5	1081.6	1096.0	1155.9	1237.4	1275.8
10369.6	40°	9753.3	7383.9	2249.5	1467.7	1189.5	1043.2	1045.6	1091.2	1163.1	1220.7
11664.6	42.5°	10844.4	8232.8	2426.9	1405.3	1167.9	1009.6	1002.4	1033.6	1081.6	1122.3
12957.2	45°	11882.8	9105.8	2602.0	1319.0	1141.5	976.0	959.3	971.2	980.8	997.6
14216.2	47.5°	12789.3	9719.7	2551.6	1239.8	1105.5	937.7	908.9	904.1	875.3	872.9
15340.9	50°	13415.2	9854.0	2266.2	1160.7	1052.8	894.5	848.9	820.2	769.8	745.8
16182.7	52.5°	13614.3	9324.0	1851.4	1081.6	966.5	837.0	772.2	726.6	664.3	642.7
16667.1	55°	13350.5	8285.6	1479.7	985.6	846.5	760.2	688.3	628.3	578.0	551.6
16719.9	57.5°	12705.4	6964.2	1170.3	872.9	719.4	673.9	601.9	542.0	498.8	472.4
16134.7	60°	11635.8	5530.1	925.7	738.6	613.9	580.4	506.0	467.6	429.3	398.1
14623.9	62.5°	10012.3	3947.3	726.6	585.1	513.2	474.8	431.7	402.9	357.3	314.2
11906.8	65°	7813.2	2414.9	561.2	429.3	412.5	393.3	366.9	340.5	285.4	242.2
7767.6	67.5°	4928.2	1143.9	400.5	323.7	326.1	316.6	304.6	283.0	242.2	203.8
3479.7	70°	2170.3	554.0	263.8	247.0	242.2	242.2	251.8	244.6	206.2	170.3
1208.7	72.5°	738.6	297.4	196.6	187.1	175.1	172.7	211.0	203.8	165.5	131.9
601.9	75°	386.1	199.0	143.9	134.3	105.5	127.1	167.9	158.3	117.5	86.3
398.1	77.5°	251.8	141.5	98.3	86.3	60.0	83.9	124.7	110.3	69.5	43.2
261.4	80°	158.3	93.5	57.6	40.8	28.8	45.6	67.1	48.0	26.4	9.6
153.5	82.5°	83.9	48.0	21.6	14.4	12.0	14.4	16.8	12.0	4.8	0.0
79.1	85°	33.6	16.8	7.2	4.8	2.4	0.0	4.8	2.4	0.0	0.0
14.4	87.5°	12.0	2.4	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>
4743.5
4431.8
3709.9
2765.1
1865.8
1510.8
1472.5
1450.9
1417.3
1383.7
1362.1
1345.4
1328.6
1311.8
1299.8
1285.4
1239.8
1139.1
1007.2
870.5
748.2
640.3
551.6
467.6
390.9
307.0
235.0
199.0
163.1
124.7
79.1
38.4
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