

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: P943208

Luminaire Tested: **GALN-SB7C-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943208
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-SB7C-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 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: 35066 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

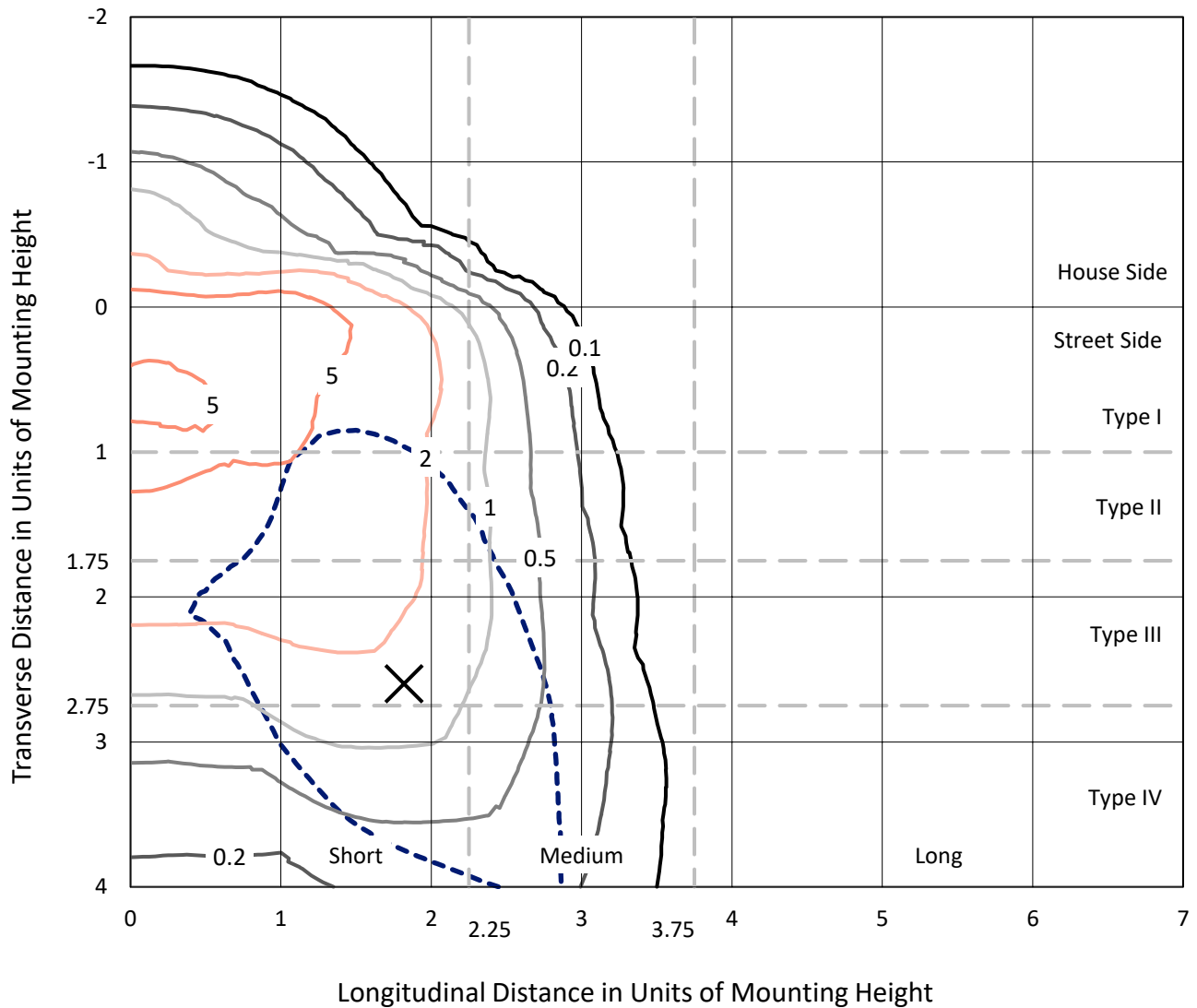
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

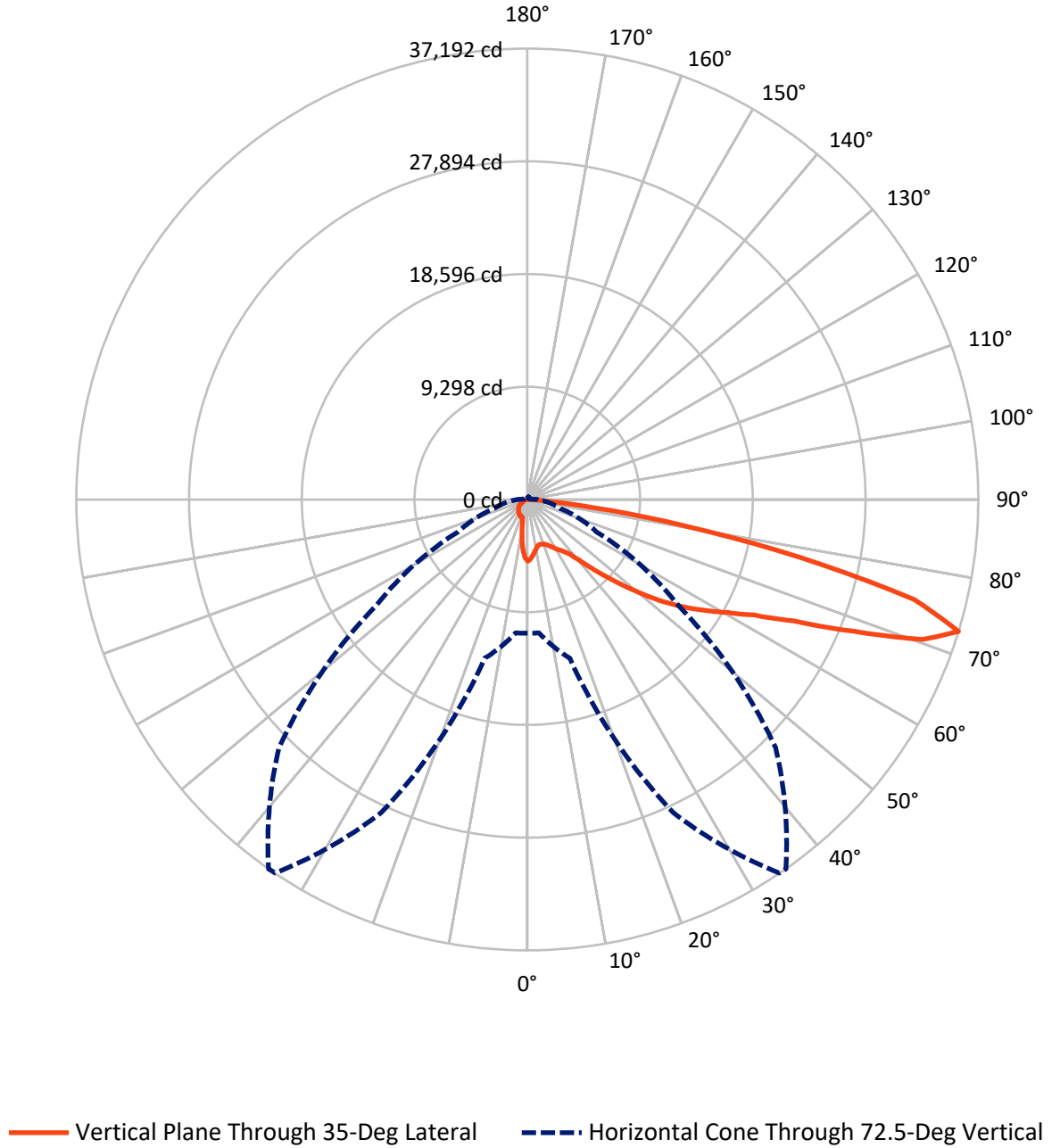
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	3946.5	0.0	3946.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	31119.5	0.0	31119.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	35066.0	0.0	35066.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.6	1.2
10°-20°	977.0	2.8
20°-30°	1587.1	4.5
30°-40°	2648.0	7.6
40°-50°	5010.2	14.3
50°-60°	7961.1	22.7
60°-70°	9848.4	28.1
70°-80°	6121.9	17.5
80°-90°	494.7	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°	35066.0	100.0
0°-180°	35066.0	100.0

Coefficient of Utilization



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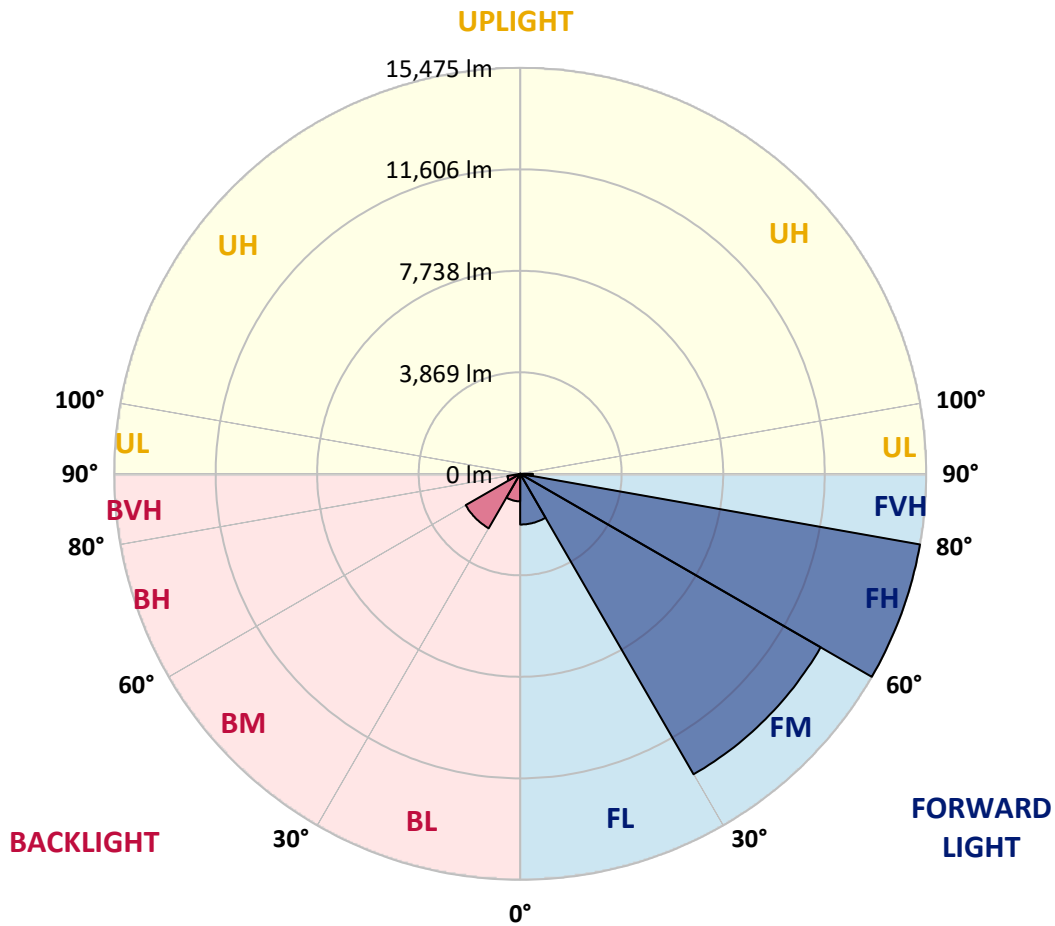
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1933.0	5.5			
FM (30°-60°)	13223.4	37.7			
FH (60°-80°)	15475.1	44.1			G5
FVH (80°-90°)	488.0	1.4			G3/500
BL (0°-30°)	1048.7	3.0	B3/2500		
BM (30°-60°)	2395.9	6.8	B2/2500		
BH (60°-80°)	495.2	1.4	B1/500		G1/500
BVH (80°-90°)	6.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	5082.2	5082.2	5082.2	5082.2	5082.2	5082.2	5082.2	5082.2	5082.2	5082.2
2.5°	4856.1	4897.2	4905.0	4917.8	4917.8	4933.2	4958.9	4994.9	5054.0	5084.8
5°	4475.9	4506.7	4545.2	4576.1	4635.2	4642.9	4743.1	4840.7	4976.9	5079.7
7.5°	4093.0	4129.0	4180.4	4254.9	4332.0	4355.1	4506.7	4671.1	4887.0	5079.7
10°	3823.2	3825.8	3872.1	3946.6	4069.9	4098.2	4283.2	4517.0	4786.8	5048.8
12.5°	3671.6	3689.6	3710.2	3766.7	3884.9	3902.9	4100.7	4375.7	4686.6	5030.9
15°	3671.6	3684.5	3697.3	3725.6	3820.7	3836.1	4010.8	4285.7	4635.2	5038.6
17.5°	3710.2	3730.7	3720.5	3753.9	3854.1	3864.4	4018.5	4260.0	4632.6	5087.4
20°	3802.7	3818.1	3797.5	3818.1	3918.3	3938.9	4098.2	4308.9	4676.3	5172.2
22.5°	3949.1	3956.8	3908.0	3923.4	4026.2	4051.9	4236.9	4447.6	4781.6	5308.3
25°	4134.1	4149.6	4075.0	4093.0	4190.7	4221.5	4434.8	4655.7	4948.6	5495.9
27.5°	4347.4	4355.1	4290.9	4288.3	4414.2	4457.9	4673.7	4912.7	5172.2	5732.3
30°	4591.5	4614.6	4552.9	4542.7	4702.0	4737.9	4951.2	5228.7	5501.0	6086.9
32.5°	4784.2	4802.2	4766.2	4791.9	4953.8	4982.0	5287.8	5675.8	6017.5	6590.5
35°	5061.7	5072.0	4989.7	5036.0	5221.0	5292.9	5747.7	6302.7	6667.5	7222.5
37.5°	6066.3	6066.3	5716.9	5488.2	5665.5	5729.7	6377.2	7091.5	7469.2	8070.4
40°	7456.3	7433.2	6921.9	6454.3	6431.2	6557.1	7273.9	8085.8	8504.7	9087.9
42.5°	8938.9	8902.9	8206.6	7744.1	7667.0	7710.7	8309.4	9311.4	9738.0	10328.9
45°	10254.4	10244.1	9606.9	8985.1	8846.4	8985.1	9601.8	10745.2	11050.9	11672.7
47.5°	11356.7	11356.7	10891.6	10485.7	10413.7	10495.9	11351.5	12335.6	12307.3	13103.9
50°	12625.9	12615.7	12173.7	11999.0	12073.5	12189.2	13365.9	14010.8	13607.5	14509.3
52.5°	13515.0	13576.6	13425.0	13396.8	13777.0	13977.4	15411.2	15650.1	14771.4	15842.8
55°	14219.0	14290.9	14465.6	14663.5	15395.7	15657.8	17392.2	17204.6	15745.2	16999.0
57.5°	15215.9	15113.1	15382.9	15773.4	16957.9	17274.0	19311.5	18671.7	16528.8	17936.9
60°	16426.1	16441.5	16487.7	16981.1	18517.5	18923.5	21202.5	20059.2	17032.4	18512.4
62.5°	17880.3	17903.5	17998.5	18756.5	20611.6	20994.4	23216.9	21194.8	17263.7	18350.5
65°	17780.1	17877.8	18938.9	21531.4	23795.1	24172.8	25567.9	21991.3	16914.2	16870.6
67.5°	16197.4	16356.7	18132.1	24845.9	28594.7	29016.0	28409.7	22148.1	15406.0	13119.3
70°	14121.3	14177.9	16313.0	27826.4	34152.2	34578.8	30953.4	20424.0	11690.7	7317.6
72.5°	11027.8	11040.6	13545.8	28517.6	37168.7	37191.8	28956.9	15161.9	6287.3	2810.9
75°	7877.7	7800.6	9072.5	23127.0	32700.5	32962.6	21708.7	7112.1	2402.4	1328.4
77.5°	4224.1	4308.9	5133.6	13715.4	22590.0	23037.1	11844.9	2050.4	1223.0	904.4
80°	1305.2	1377.2	2104.3	6279.6	12795.5	13065.3	4391.1	912.1	853.0	644.9
82.5°	411.1	426.5	981.5	2638.8	5310.9	5434.2	1271.8	516.4	583.2	426.5
85°	118.2	120.8	436.8	984.1	1313.0	1338.6	357.1	200.4	334.0	264.6
87.5°	12.8	41.1	164.4	164.4	115.6	113.1	38.5	43.7	95.1	33.4
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°
5082.2	0°	5082.2	5082.2	5082.2	5082.2	5082.2	5082.2	5082.2	5082.2	5082.2	5082.2
5105.4	2.5°	5092.5	5095.1	5061.7	5005.2	4943.5	4892.1	4827.9	4776.5	4740.5	4730.2
5151.6	5°	5128.5	5110.5	5015.4	4843.3	4637.7	4460.4	4262.6	4105.9	4003.1	3959.4
5200.4	7.5°	5182.4	5131.1	4922.9	4583.8	4190.7	3841.2	3486.7	3211.7	3037.0	2949.7
5246.7	10°	5228.7	5125.9	4768.8	4208.6	3607.4	3078.1	2600.2	2268.8	2083.8	1996.4
5300.6	12.5°	5272.4	5123.3	4568.4	3764.1	2949.7	2302.2	1857.7	1693.2	1641.8	1623.8
5388.0	15°	5354.6	5131.1	4316.6	3255.4	2294.5	1739.5	1577.6	1575.0	1585.3	1580.2
5521.6	17.5°	5467.6	5138.8	4031.4	2715.8	1770.3	1533.9	1526.2	1549.3	1564.8	1557.0
5688.6	20°	5614.1	5169.6	3728.2	2181.4	1521.1	1482.5	1500.5	1521.1	1533.9	1521.1
5912.1	22.5°	5819.7	5223.6	3396.7	1752.3	1441.4	1451.7	1467.1	1490.2	1503.1	1485.1
6197.4	25°	6071.5	5308.3	3070.4	1523.6	1402.9	1415.7	1438.9	1464.5	1480.0	1462.0
6557.1	27.5°	6397.8	5444.5	2769.8	1472.3	1364.3	1372.1	1405.5	1444.0	1464.5	1441.4
7068.4	30°	6870.5	5668.1	2510.3	1495.4	1341.2	1323.2	1369.5	1423.4	1446.6	1426.0
7764.7	32.5°	7497.5	5984.1	2351.0	1531.4	1330.9	1266.7	1310.4	1379.8	1418.3	1405.5
8674.2	35°	8319.7	6464.6	2289.3	1572.5	1323.2	1207.6	1238.4	1313.0	1379.8	1392.6
9820.2	37.5°	9316.6	7132.6	2307.3	1590.4	1300.1	1158.8	1174.2	1238.4	1325.8	1366.9
11110.0	40°	10449.7	7911.1	2410.1	1572.5	1274.4	1117.7	1120.3	1169.1	1246.2	1307.8
12497.5	42.5°	11618.7	8820.7	2600.2	1505.7	1251.3	1081.7	1074.0	1107.4	1158.8	1202.5
13882.4	45°	12731.3	9755.9	2787.8	1413.2	1223.0	1045.7	1027.8	1040.6	1050.9	1068.9
15231.3	47.5°	13702.5	10413.7	2733.8	1328.4	1184.5	1004.6	973.8	968.7	937.8	935.3
16436.3	50°	14373.1	10557.6	2428.1	1243.6	1128.0	958.4	909.6	878.7	824.8	799.1
17338.2	52.5°	14586.4	9989.8	1983.6	1158.8	1035.5	896.7	827.3	778.5	711.7	688.6
17857.2	55°	14303.8	8877.2	1585.3	1056.0	907.0	814.5	737.4	673.2	619.2	591.0
17913.7	57.5°	13612.6	7461.5	1253.9	935.3	770.8	722.0	644.9	580.7	534.4	506.2
17286.8	60°	12466.6	5925.0	991.8	791.4	657.8	621.8	542.1	501.0	459.9	426.5
15668.1	62.5°	10727.2	4229.2	778.5	626.9	549.8	508.7	462.5	431.7	382.8	336.6
12757.0	65°	8371.0	2587.4	601.2	459.9	441.9	421.4	393.1	364.9	305.8	259.5
8322.2	67.5°	5280.1	1225.6	429.1	346.9	349.4	339.2	326.3	303.2	259.5	218.4
3728.2	70°	2325.3	593.5	282.6	264.6	259.5	259.5	269.8	262.1	221.0	182.4
1295.0	72.5°	791.4	318.6	210.7	200.4	187.6	185.0	226.1	218.4	177.3	141.3
644.9	75°	413.7	213.3	154.2	143.9	113.1	136.2	179.9	169.6	125.9	92.5
426.5	77.5°	269.8	151.6	105.3	92.5	64.2	89.9	133.6	118.2	74.5	46.2
280.1	80°	169.6	100.2	61.7	43.7	30.8	48.8	71.9	51.4	28.3	10.3
164.4	82.5°	89.9	51.4	23.1	15.4	12.8	15.4	18.0	12.8	5.1	0.0
84.8	85°	36.0	18.0	7.7	5.1	2.6	0.0	5.1	2.6	0.0	0.0
15.4	87.5°	12.8	2.6	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>
5082.2
4748.2
3974.8
2962.5
1999.0
1618.7
1577.6
1554.5
1518.5
1482.5
1459.4
1441.4
1423.4
1405.5
1392.6
1377.2
1328.4
1220.5
1079.1
932.7
801.6
686.0
591.0
501.0
418.8
328.9
251.8
213.3
174.7
133.6
84.8
41.1
7.7
0.0
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