

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: P944408

Luminaire Tested: **GALN-SB9B-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944408
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-SB9B-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 450mA 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: 34894 lumens
Efficiency: N/A
Efficacy: 105.9 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

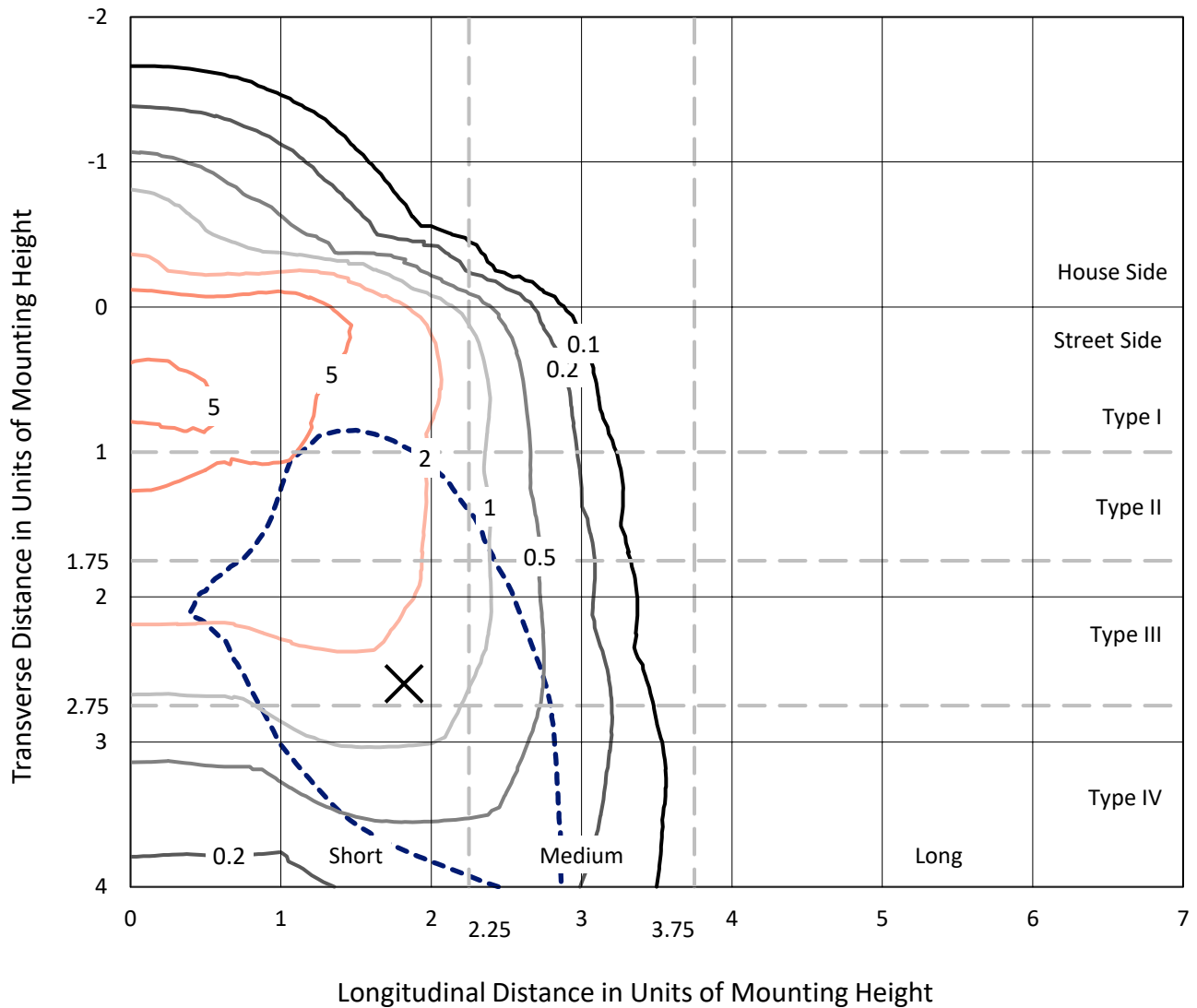
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

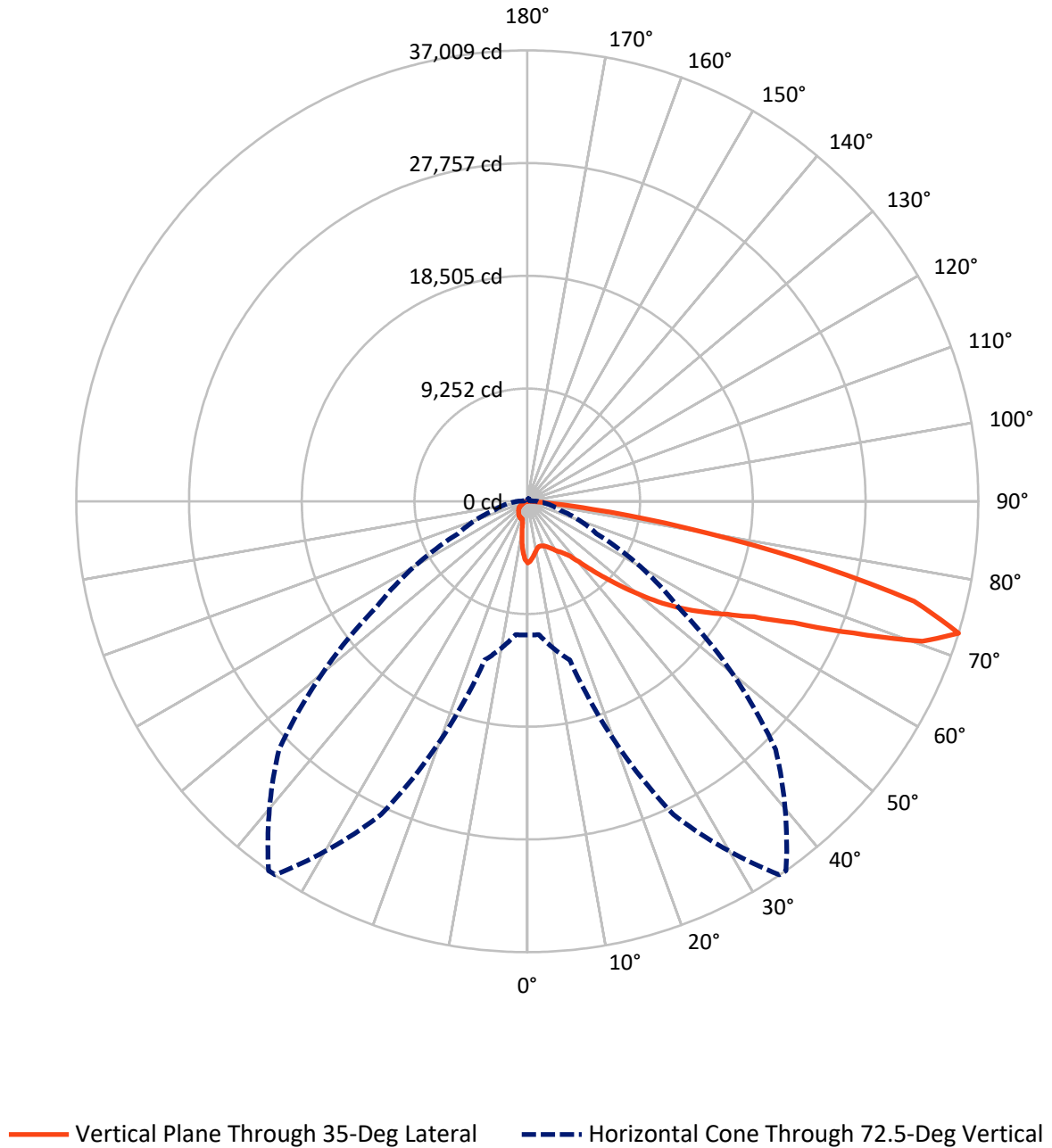
✕ Max cd
 - - - 1/2 Max cd



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	3927.2	0.0	3927.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	30966.8	0.0	30966.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	34894.0	0.0	34894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.6	1.2
10°-20°	972.2	2.8
20°-30°	1579.3	4.5
30°-40°	2635.0	7.6
40°-50°	4985.6	14.3
50°-60°	7922.0	22.7
60°-70°	9800.1	28.1
70°-80°	6091.8	17.5
80°-90°	492.3	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°	34894.0	100.0
0°-180°	34894.0	100.0

Coefficient of Utilization



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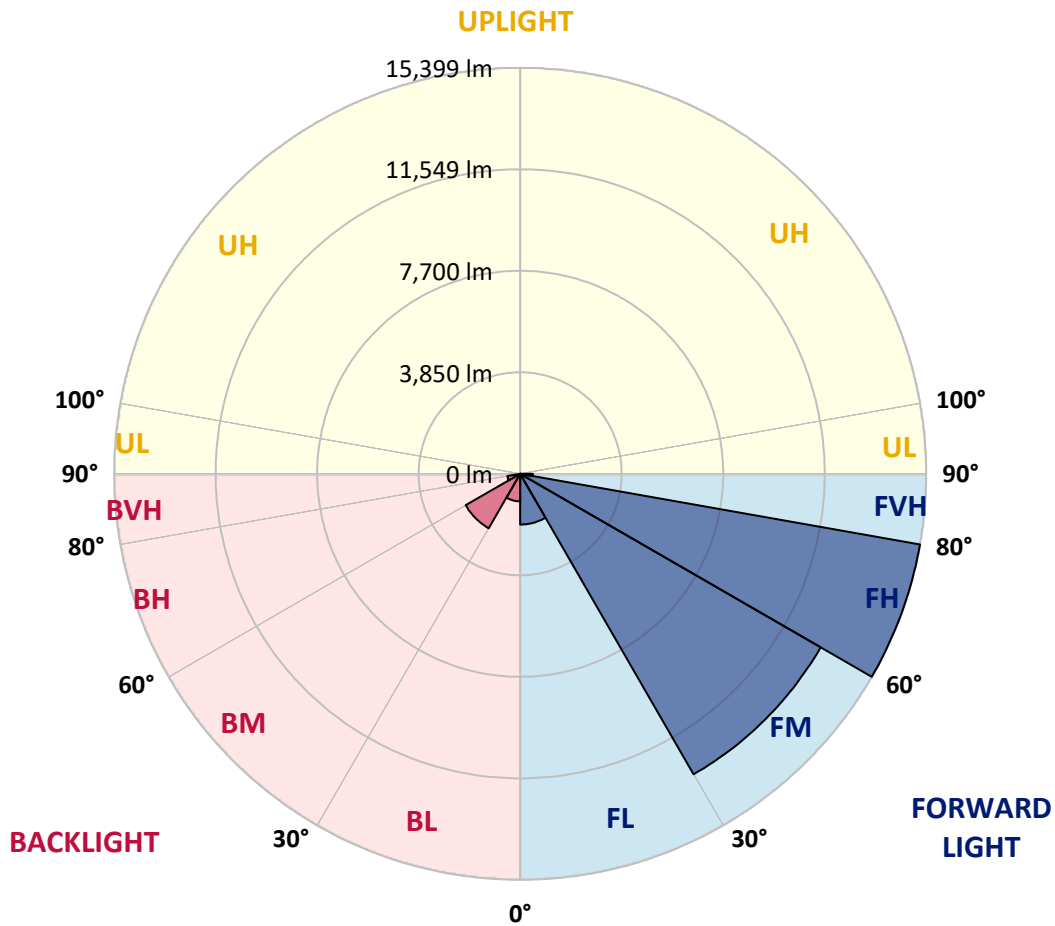
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1923.5	5.5			
FM (30°-60°)	13158.5	37.7			
FH (60°-80°)	15399.1	44.1			G5
FVH (80°-90°)	485.6	1.4			G3/500
BL (0°-30°)	1043.5	3.0	B3/2500		
BM (30°-60°)	2384.1	6.8	B2/2500		
BH (60°-80°)	492.8	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°	5057.3	5057.3	5057.3	5057.3	5057.3	5057.3	5057.3	5057.3	5057.3	5057.3
2.5°	4832.3	4873.2	4880.9	4893.7	4893.7	4909.0	4934.6	4970.4	5029.2	5059.9
5°	4453.9	4484.6	4522.9	4553.6	4612.4	4620.1	4719.8	4817.0	4952.5	5054.8
7.5°	4073.0	4108.7	4159.9	4234.0	4310.7	4333.7	4484.6	4648.2	4863.0	5054.8
10°	3804.5	3807.0	3853.1	3927.2	4049.9	4078.1	4262.2	4494.8	4763.3	5024.1
12.5°	3653.6	3671.5	3692.0	3748.2	3865.9	3883.7	4080.6	4354.2	4663.6	5006.2
15°	3653.6	3666.4	3679.2	3707.3	3801.9	3817.3	3991.1	4264.7	4612.4	5013.8
17.5°	3692.0	3712.4	3702.2	3735.5	3835.2	3845.4	3998.8	4239.1	4609.9	5062.4
20°	3784.0	3799.4	3778.9	3799.4	3899.1	3919.5	4078.1	4287.7	4653.3	5146.8
22.5°	3929.8	3937.4	3888.9	3904.2	4006.5	4032.0	4216.1	4425.8	4758.2	5282.3
25°	4113.9	4129.2	4055.1	4073.0	4170.1	4200.8	4413.0	4632.9	4924.4	5469.0
27.5°	4326.1	4333.7	4269.8	4267.3	4392.5	4436.0	4650.8	4888.6	5146.8	5704.2
30°	4569.0	4592.0	4530.6	4520.4	4678.9	4714.7	4926.9	5203.0	5474.1	6057.0
32.5°	4760.7	4778.6	4742.8	4768.4	4929.5	4957.6	5261.9	5647.9	5988.0	6558.1
35°	5036.9	5047.1	4965.3	5011.3	5195.4	5267.0	5719.5	6271.8	6634.8	7187.1
37.5°	6036.6	6036.6	5688.8	5461.3	5637.7	5701.6	6345.9	7056.7	7432.6	8030.8
40°	7419.8	7396.8	6888.0	6422.6	6399.6	6524.9	7238.2	8046.2	8462.9	9043.3
42.5°	8895.0	8859.2	8166.4	7706.1	7629.4	7672.9	8268.6	9265.8	9690.2	10278.3
45°	10204.1	10193.9	9559.8	8941.1	8803.0	8941.1	9554.7	10692.5	10996.7	11615.5
47.5°	11301.0	11301.0	10838.2	10434.2	10362.6	10444.4	11295.9	12275.1	12247.0	13039.6
50°	12564.0	12553.8	12114.0	11940.2	12014.3	12129.4	13300.4	13942.1	13540.7	14438.1
52.5°	13448.7	13510.0	13359.2	13331.1	13709.5	13908.9	15335.6	15573.3	14698.9	15765.1
55°	14149.2	14220.8	14394.7	14591.5	15320.2	15581.0	17306.8	17120.2	15667.9	16915.7
57.5°	15141.3	15039.0	15307.4	15696.1	16874.7	17189.2	19216.8	18580.1	16447.8	17848.9
60°	16345.5	16360.8	16406.9	16897.8	18426.7	18830.7	21098.5	19960.8	16948.9	18421.6
62.5°	17792.6	17815.6	17910.2	18664.5	20510.5	20891.4	23103.1	21090.9	17179.0	18260.5
65°	17692.9	17790.1	18846.0	21425.8	23678.3	24054.2	25442.5	21883.5	16831.3	16787.8
67.5°	16117.9	16276.5	18043.2	24724.1	28454.4	28873.7	28270.3	22039.4	15330.5	13054.9
70°	14052.1	14108.3	16233.0	27689.9	33984.7	34409.1	30801.5	20323.8	11633.3	7281.7
72.5°	10973.7	10986.5	13479.3	28377.7	36986.4	37009.4	28814.9	15087.6	6256.4	2797.1
75°	7839.1	7762.4	9028.0	23013.6	32540.1	32800.9	21602.2	7077.2	2390.6	1321.9
77.5°	4203.3	4287.7	5108.4	13648.1	22479.2	22924.1	11786.8	2040.3	1217.0	900.0
80°	1298.8	1370.4	2094.0	6248.8	12732.8	13001.2	4369.5	907.7	848.9	641.8
82.5°	409.1	424.4	976.7	2625.8	5284.9	5407.6	1265.6	513.9	580.4	424.4
85°	117.6	120.2	434.7	979.2	1306.5	1332.1	355.4	199.4	332.4	263.3
87.5°	12.8	40.9	163.6	163.6	115.1	112.5	38.4	43.5	94.6	33.2
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°
5057.3	0°	5057.3	5057.3	5057.3	5057.3	5057.3	5057.3	5057.3	5057.3	5057.3	5057.3
5080.3	2.5°	5067.5	5070.1	5036.9	4980.6	4919.2	4868.1	4804.2	4753.1	4717.3	4707.0
5126.3	5°	5103.3	5085.4	4990.8	4819.5	4615.0	4438.6	4241.7	4085.7	3983.5	3940.0
5174.9	7.5°	5157.0	5105.9	4898.8	4561.3	4170.1	3822.4	3469.6	3196.0	3022.1	2935.2
5220.9	10°	5203.0	5100.8	4745.4	4188.0	3589.7	3063.0	2587.5	2257.6	2073.5	1986.6
5274.6	12.5°	5246.5	5098.2	4546.0	3745.7	2935.2	2290.9	1848.6	1684.9	1633.8	1615.9
5361.6	15°	5328.3	5105.9	4295.4	3239.4	2283.2	1730.9	1569.9	1567.3	1577.5	1572.4
5494.5	17.5°	5440.8	5113.6	4011.6	2702.5	1761.6	1526.4	1518.7	1541.7	1557.1	1549.4
5660.7	20°	5586.6	5144.2	3709.9	2170.7	1513.6	1475.3	1493.2	1513.6	1526.4	1513.6
5883.2	22.5°	5791.1	5197.9	3380.1	1743.7	1434.4	1444.6	1459.9	1482.9	1495.7	1477.8
6167.0	25°	6041.7	5282.3	3055.4	1516.2	1396.0	1408.8	1431.8	1457.4	1472.7	1454.8
6524.9	27.5°	6366.4	5417.8	2756.2	1465.0	1357.7	1365.3	1398.6	1436.9	1457.4	1434.4
7033.7	30°	6836.8	5640.3	2498.0	1488.0	1334.6	1316.7	1362.8	1416.5	1439.5	1419.0
7726.6	32.5°	7460.7	5954.7	2339.5	1523.8	1324.4	1260.5	1304.0	1373.0	1411.3	1398.6
8631.7	35°	8278.9	6432.9	2278.1	1564.7	1316.7	1201.7	1232.4	1306.5	1373.0	1385.8
9772.0	37.5°	9270.9	7097.6	2296.0	1582.6	1293.7	1153.1	1168.4	1232.4	1319.3	1360.2
11055.5	40°	10398.4	7872.3	2398.3	1564.7	1268.2	1112.2	1114.8	1163.3	1240.0	1301.4
12436.2	42.5°	11561.8	8777.4	2587.5	1498.3	1245.2	1076.4	1068.7	1102.0	1153.1	1196.6
13814.3	45°	12668.8	9708.1	2774.1	1406.2	1217.0	1040.6	1022.7	1035.5	1045.7	1063.6
15156.6	47.5°	13635.3	10362.6	2720.4	1321.9	1178.7	999.7	969.0	963.9	933.2	930.7
16355.7	50°	14302.6	10505.8	2416.2	1237.5	1122.4	953.7	905.1	874.4	820.7	795.2
17253.2	52.5°	14514.8	9940.8	1973.8	1153.1	1030.4	892.3	823.3	774.7	708.2	685.2
17769.6	55°	14233.6	8833.7	1577.5	1050.8	902.5	810.5	733.8	669.9	616.2	588.1
17825.9	57.5°	13545.8	7424.9	1247.7	930.7	767.0	718.5	641.8	577.8	531.8	503.7
17202.0	60°	12405.5	5895.9	986.9	787.5	654.5	618.7	539.5	498.6	457.7	424.4
15591.2	62.5°	10674.6	4208.5	774.7	623.9	547.2	506.2	460.2	429.5	381.0	334.9
12694.4	65°	8330.0	2574.7	598.3	457.7	439.8	419.3	391.2	363.1	304.3	258.2
8281.4	67.5°	5254.2	1219.6	427.0	345.2	347.7	337.5	324.7	301.7	258.2	217.3
3709.9	70°	2313.9	590.6	281.2	263.3	258.2	258.2	268.5	260.8	219.9	181.5
1288.6	72.5°	787.5	317.0	209.7	199.4	186.6	184.1	225.0	217.3	176.4	140.6
641.8	75°	411.6	212.2	153.4	143.2	112.5	135.5	179.0	168.7	125.3	92.0
424.4	77.5°	268.5	150.9	104.8	92.0	63.9	89.5	133.0	117.6	74.1	46.0
278.7	80°	168.7	99.7	61.4	43.5	30.7	48.6	71.6	51.1	28.1	10.2
163.6	82.5°	89.5	51.1	23.0	15.3	12.8	15.3	17.9	12.8	5.1	0.0
84.4	85°	35.8	17.9	7.7	5.1	2.6	0.0	5.1	2.6	0.0	0.0
15.3	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>
5057.3
4724.9
3955.3
2948.0
1989.2
1610.8
1569.9
1546.9
1511.1
1475.3
1452.3
1434.4
1416.5
1398.6
1385.8
1370.4
1321.9
1214.5
1073.8
928.1
797.7
682.7
588.1
498.6
416.8
327.3
250.6
212.2
173.9
133.0
84.4
40.9
7.7
0.0
0.0
0.0
0.0

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