

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: P944409

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
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
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
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45551 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

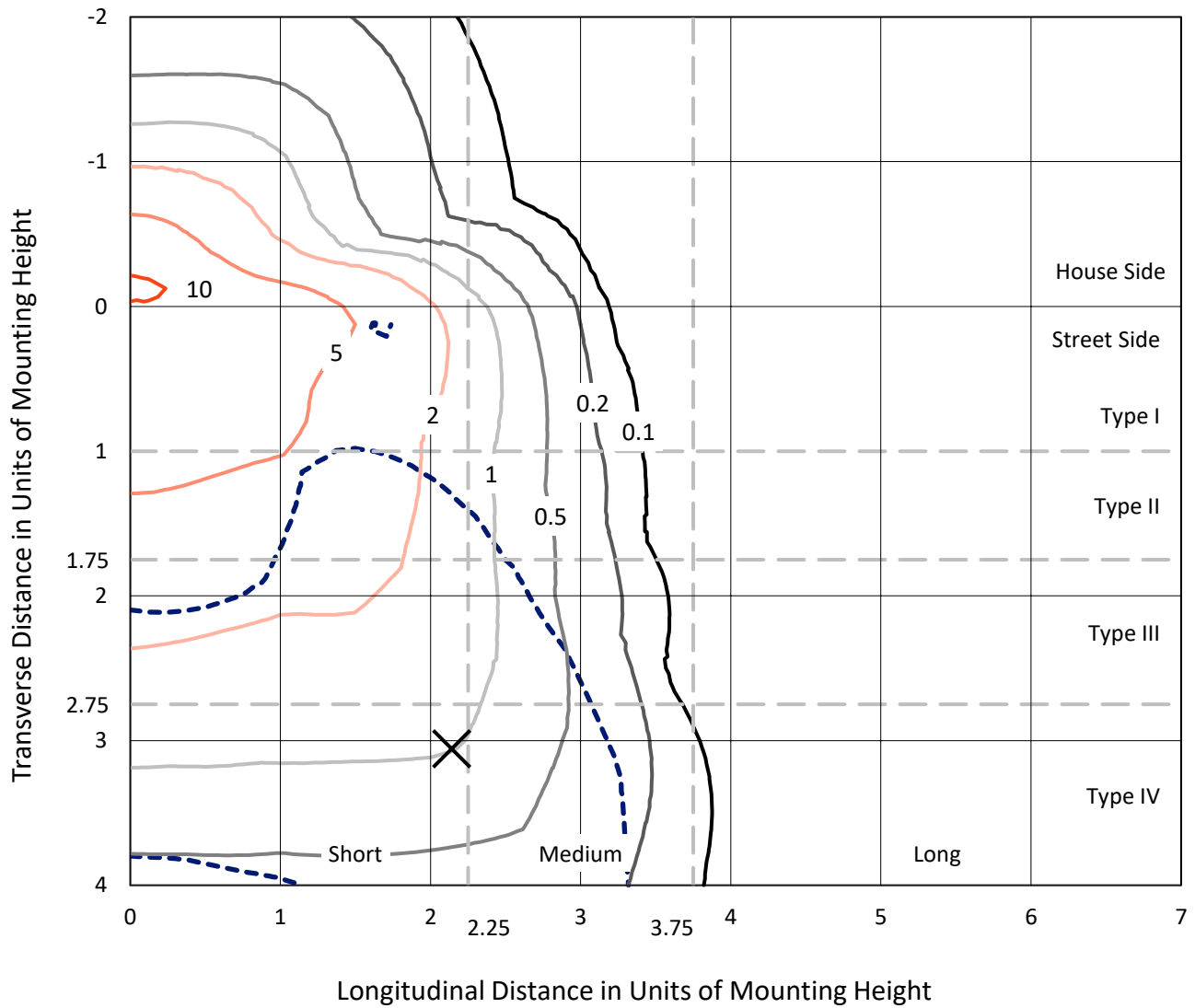
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

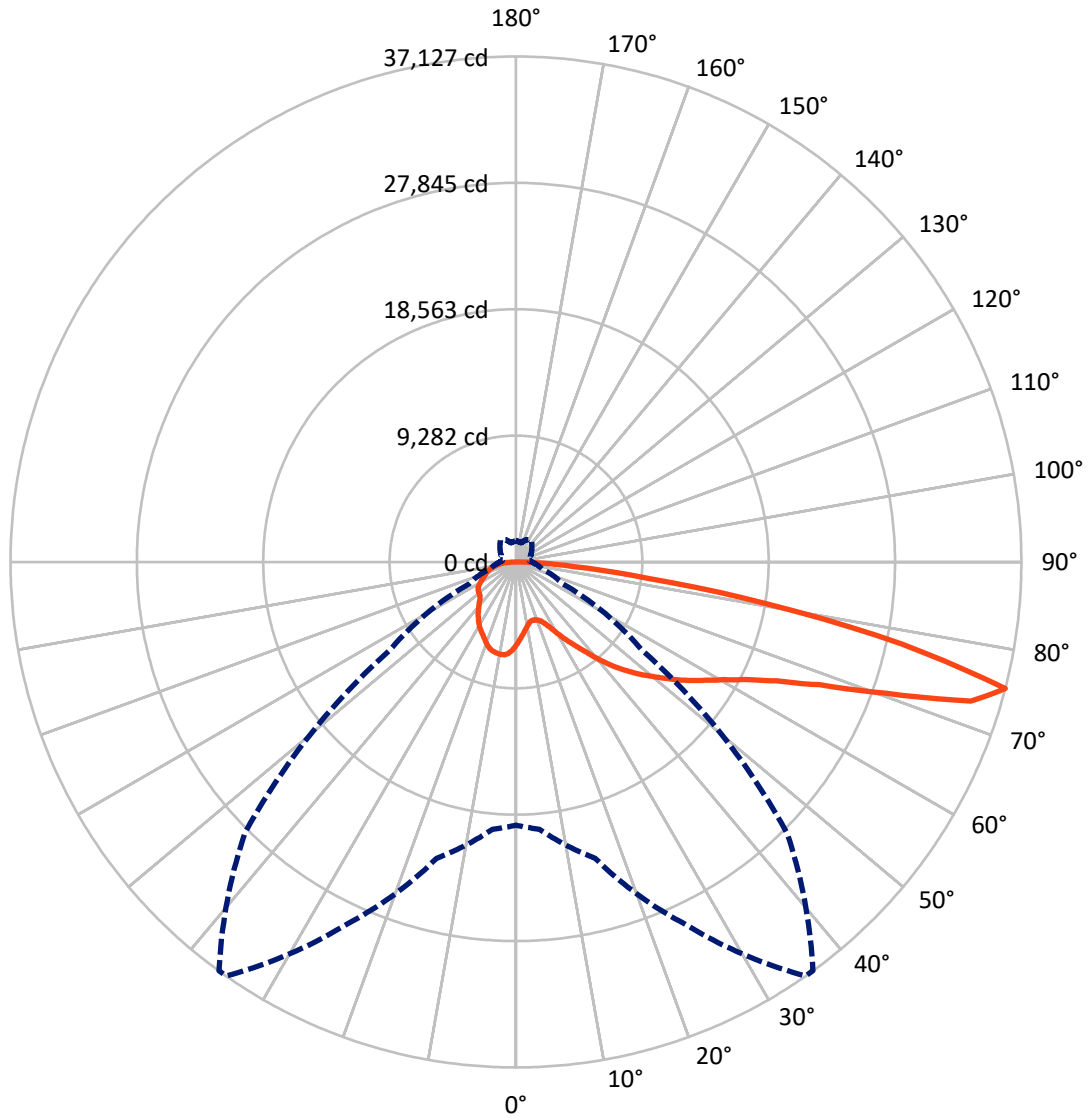
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10840.0	0.0	10840.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	34711.0	0.0	34711.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	45551.0	0.0	45551.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.7	1.3
10°-20°	1657.7	3.6
20°-30°	2783.7	6.1
30°-40°	4326.3	9.5
40°-50°	6421.3	14.1
50°-60°	8865.0	19.5
60°-70°	10755.3	23.6
70°-80°	8888.5	19.5
80°-90°	1278.4	2.8
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°	45551.0	100.0
0°-180°	45551.0	100.0

Coefficient of Utilization



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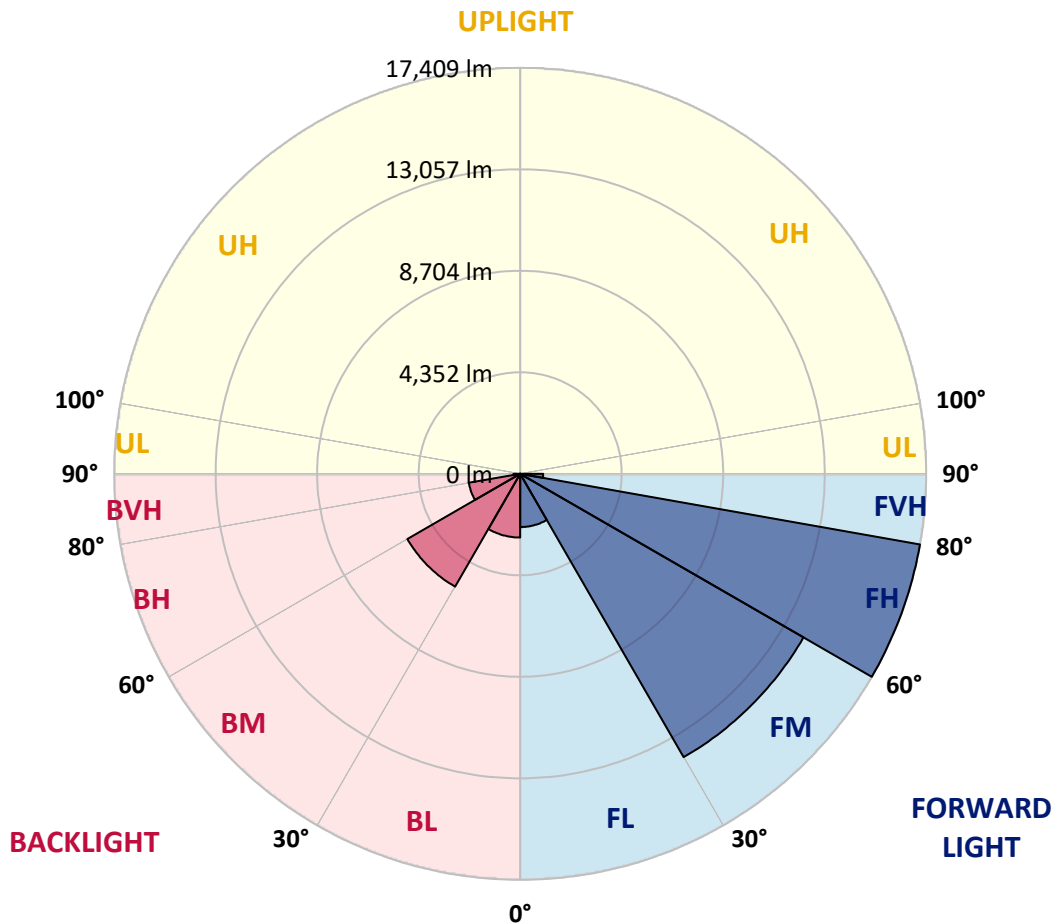
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2284.3	5.0			
FM (30°-60°)	14027.2	30.8			
FH (60°-80°)	17408.9	38.2			G5
FVH (80°-90°)	990.6	2.2			G5
BL (0°-30°)	2731.8	6.0	B4/5000		
BM (30°-60°)	5585.4	12.3	B4/8500		
BH (60°-80°)	2234.9	4.9	B3/2500		G3/2500
BVH (80°-90°)	287.9	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	6070.0	6070.0	6070.0	6070.0	6070.0	6070.0	6070.0	6070.0	6070.0	6070.0
2.5°	5597.2	5631.7	5646.4	5639.0	5676.0	5671.1	5722.8	5786.8	5875.4	5961.6
5°	5166.3	5203.2	5235.2	5264.8	5336.2	5358.3	5439.6	5562.7	5725.2	5890.2
7.5°	4764.9	4796.9	4846.1	4900.3	5021.0	5043.1	5178.6	5370.6	5597.2	5838.5
10°	4437.4	4469.4	4521.1	4582.6	4732.9	4759.9	4932.3	5188.4	5483.9	5789.3
12.5°	4297.0	4306.9	4336.4	4398.0	4528.5	4545.7	4735.3	5028.4	5373.1	5752.3
15°	4289.6	4309.3	4311.8	4343.8	4452.1	4459.5	4634.4	4924.9	5304.2	5744.9
17.5°	4363.5	4378.3	4356.1	4375.8	4466.9	4479.2	4617.1	4875.7	5282.0	5776.9
20°	4560.5	4572.8	4506.3	4479.2	4545.7	4555.6	4691.0	4907.7	5304.2	5843.4
22.5°	4979.1	4986.5	4824.0	4713.2	4718.1	4723.0	4841.2	5038.2	5390.3	5964.1
25°	5631.7	5626.7	5368.2	5153.9	5030.8	5003.7	5082.5	5250.0	5535.6	6124.2
27.5°	6395.0	6358.1	6099.5	5779.4	5511.0	5471.6	5454.4	5525.8	5742.5	6335.9
30°	7256.9	7222.4	6944.2	6525.5	6153.7	6089.7	5927.2	5890.2	6050.3	6624.0
32.5°	8202.5	8180.3	7847.9	7340.6	6843.2	6769.3	6496.0	6397.5	6523.1	7059.9
35°	8995.4	8975.7	8699.9	8177.8	7569.6	7478.5	7200.3	7089.4	7153.5	7618.9
37.5°	9712.0	9702.1	9465.7	9054.5	8426.6	8315.7	8003.0	7966.1	7953.8	8355.1
40°	10376.8	10352.2	10106.0	9889.3	9423.9	9322.9	9047.1	9015.1	8921.5	9261.3
42.5°	11113.1	11049.1	10692.0	10591.1	10465.5	10381.8	10216.8	10221.7	10014.8	10283.3
45°	11714.0	11677.0	11310.1	11251.0	11386.4	11352.0	11494.8	11531.7	11130.3	11354.4
47.5°	12359.1	12324.6	12014.4	11972.5	12339.4	12349.3	12854.1	12866.4	12218.8	12467.5
50°	13154.5	13105.2	12797.4	12849.1	13260.4	13297.3	14220.7	14137.0	13221.0	13597.7
52.5°	13679.0	13708.5	13642.1	13725.8	14287.2	14321.7	15565.2	15351.0	14213.4	14713.2
55°	14065.6	14124.7	14331.6	14523.6	15370.7	15405.2	16833.4	16505.9	15035.8	15747.5
57.5°	14563.0	14479.3	14865.9	15240.2	16400.0	16491.1	18067.1	17618.9	15764.7	16638.9
60°	15277.1	15218.0	15518.5	16072.5	17552.5	17697.7	19372.2	18621.2	16299.1	17345.6
62.5°	16725.1	16577.3	16624.1	17114.1	19005.3	19197.4	20844.8	19495.3	16565.0	17621.4
65°	18889.6	18635.9	18399.5	18739.4	21051.6	21241.2	22506.9	20182.4	16466.5	17087.1
67.5°	21615.5	21364.4	21073.8	21393.9	24065.7	24215.9	24558.2	20569.0	15690.8	15028.4
70°	23863.8	23770.2	24117.4	25434.8	28879.8	28884.7	27188.1	20248.9	13565.7	10655.1
72.5°	23565.8	23509.2	25338.8	29411.7	34947.3	34816.8	29677.6	17825.8	9138.2	4806.7
75°	19332.8	19699.7	22534.0	29340.3	37126.6	37109.4	28153.4	11332.3	3779.9	1992.1
77.5°	10367.0	10948.1	14629.5	21662.3	28983.2	29419.1	19793.3	3964.6	1622.8	1275.6
80°	3381.0	3888.2	5831.1	11029.4	18832.9	18751.7	8483.2	1556.3	1110.6	903.7
82.5°	1435.6	1494.7	2605.3	5208.1	9665.2	9515.0	2701.3	893.9	780.6	618.1
85°	561.4	627.9	1150.0	2408.3	4186.2	4095.1	975.1	443.2	499.9	403.8
87.5°	184.7	224.1	411.2	824.9	1302.6	1255.9	238.9	152.7	216.7	184.7
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°
6070.0	0°	6070.0	6070.0	6070.0	6070.0	6070.0	6070.0	6070.0	6070.0	6070.0	6070.0
6087.2	2.5°	6121.7	6161.1	6207.9	6276.8	6335.9	6385.2	6436.9	6468.9	6481.2	6518.1
6097.1	5°	6166.0	6252.2	6367.9	6481.2	6592.0	6658.5	6717.6	6747.2	6774.2	6793.9
6124.2	7.5°	6239.9	6350.7	6532.9	6680.7	6774.2	6828.4	6867.8	6858.0	6867.8	6872.7
6153.7	10°	6303.9	6459.0	6675.7	6816.1	6887.5	6890.0	6880.1	6845.7	6828.4	6830.9
6198.0	12.5°	6380.2	6552.6	6786.6	6904.8	6924.5	6870.3	6828.4	6769.3	6747.2	6737.3
6264.5	15°	6483.7	6680.7	6907.2	6951.5	6902.3	6833.3	6761.9	6665.9	6616.6	6577.2
6377.8	17.5°	6609.3	6826.0	7000.8	6968.8	6862.9	6749.6	6633.9	6488.6	6387.6	6345.8
6532.9	20°	6784.1	6978.6	7072.2	6931.8	6771.8	6599.4	6402.4	6225.1	6131.5	6089.7
6729.9	22.5°	6995.9	7183.0	7141.2	6867.8	6641.3	6365.5	6119.2	5988.7	5941.9	5912.4
6983.6	25°	7249.5	7409.6	7190.4	6774.2	6427.0	6055.2	5865.6	5823.7	5801.6	5779.4
7293.8	27.5°	7579.5	7665.7	7227.3	6636.3	6092.1	5725.2	5656.3	5663.7	5656.3	5619.3
7724.8	30°	8015.3	7998.1	7261.8	6412.3	5708.0	5427.3	5432.2	5464.2	5469.1	5444.5
8325.6	32.5°	8589.1	8414.2	7279.0	6121.7	5341.1	5166.3	5171.2	5205.7	5230.3	5188.4
9111.1	35°	9283.5	8899.4	7252.0	5757.2	5057.9	4917.5	4880.6	4890.5	4897.8	4858.4
10064.1	37.5°	10093.6	9443.6	7131.3	5353.4	4824.0	4673.8	4595.0	4528.5	4489.1	4452.1
11142.7	40°	10982.6	10037.0	6909.7	4959.4	4562.9	4415.2	4297.0	4171.4	4038.4	3989.2
12285.2	42.5°	11913.4	10647.7	6641.3	4582.6	4262.5	4141.9	4016.3	3834.1	3634.6	3533.6
13472.2	45°	12878.7	11273.2	6377.8	4210.8	3954.7	3903.0	3757.7	3538.6	3321.9	3193.8
14661.5	47.5°	13824.3	11864.2	5991.2	3836.5	3666.6	3723.2	3610.0	3408.1	3166.7	2964.8
15841.0	50°	14728.0	12418.2	5358.3	3457.3	3432.7	3669.1	3560.7	3270.2	2994.4	2735.8
16998.4	52.5°	15624.3	12866.4	4548.2	3112.6	3307.1	3654.3	3496.7	3176.6	2839.2	2568.4
18086.8	55°	16385.2	13097.9	3767.6	2817.1	3124.9	3528.7	3420.4	3065.8	2620.1	2332.0
18832.9	57.5°	16818.6	12910.7	3117.5	2526.5	2873.7	3321.9	3289.9	2829.4	2359.0	2137.4
18978.2	60°	16631.5	12152.3	2585.6	2272.9	2634.8	3097.8	3063.3	2595.4	2159.6	1950.3
18200.1	62.5°	15599.7	10706.8	2164.5	2051.2	2418.1	2868.8	2836.8	2415.7	2006.9	1805.0
16134.1	65°	13521.4	8709.7	1837.0	1866.5	2199.0	2593.0	2639.8	2265.5	1886.2	1689.3
12482.2	67.5°	10312.8	6308.8	1580.9	1706.5	1984.7	2322.1	2457.5	2157.1	1785.3	1598.1
7222.4	70°	5877.9	3582.9	1364.2	1551.4	1795.1	2070.9	2317.2	2070.9	1676.9	1521.8
2706.3	72.5°	2228.5	1644.9	1179.5	1396.2	1612.9	1859.2	2162.0	1935.5	1551.4	1435.6
1398.7	75°	1189.4	1002.2	992.4	1214.0	1403.6	1652.3	1967.5	1802.5	1457.8	1516.9
967.7	77.5°	810.2	709.2	829.9	1039.2	1174.6	1423.3	1760.7	1600.6	1263.2	1258.3
669.8	80°	561.4	502.3	674.7	837.2	908.6	1196.8	1536.6	1374.1	1029.3	960.4
413.7	82.5°	337.4	327.5	504.8	625.5	642.7	923.4	1273.1	1152.4	842.2	733.8
246.2	85°	184.7	194.5	322.6	366.9	374.3	645.2	997.3	891.4	647.6	544.2
88.6	87.5°	51.7	66.5	118.2	145.3	179.8	334.9	593.5	529.4	325.0	226.5
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>
6070.0
6515.7
6798.9
6880.1
6835.8
6732.4
6589.6
6348.2
6084.8
5917.3
5779.4
5626.7
5456.8
5208.1
4885.5
4476.8
4011.4
3546.0
3184.0
2942.6
2713.6
2538.8
2307.3
2107.9
1920.7
1773.0
1657.2
1568.6
1502.1
1415.9
<i>1566.1</i>
1159.8
918.5
738.7
549.1
226.5
0.0

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