

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: P942029

Luminaire Tested: **GALN-SB5D-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942029
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-SB5D-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45652 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

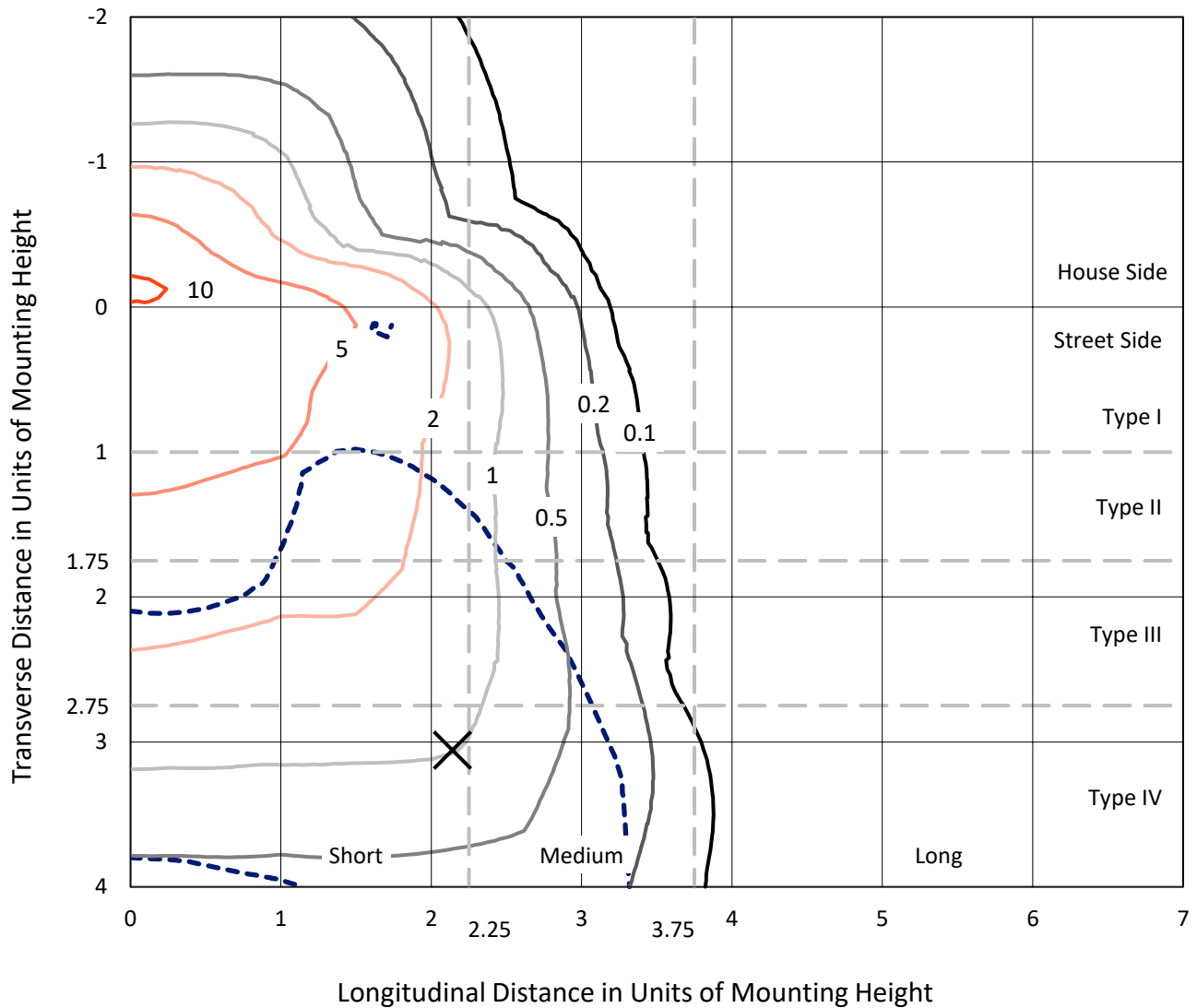
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

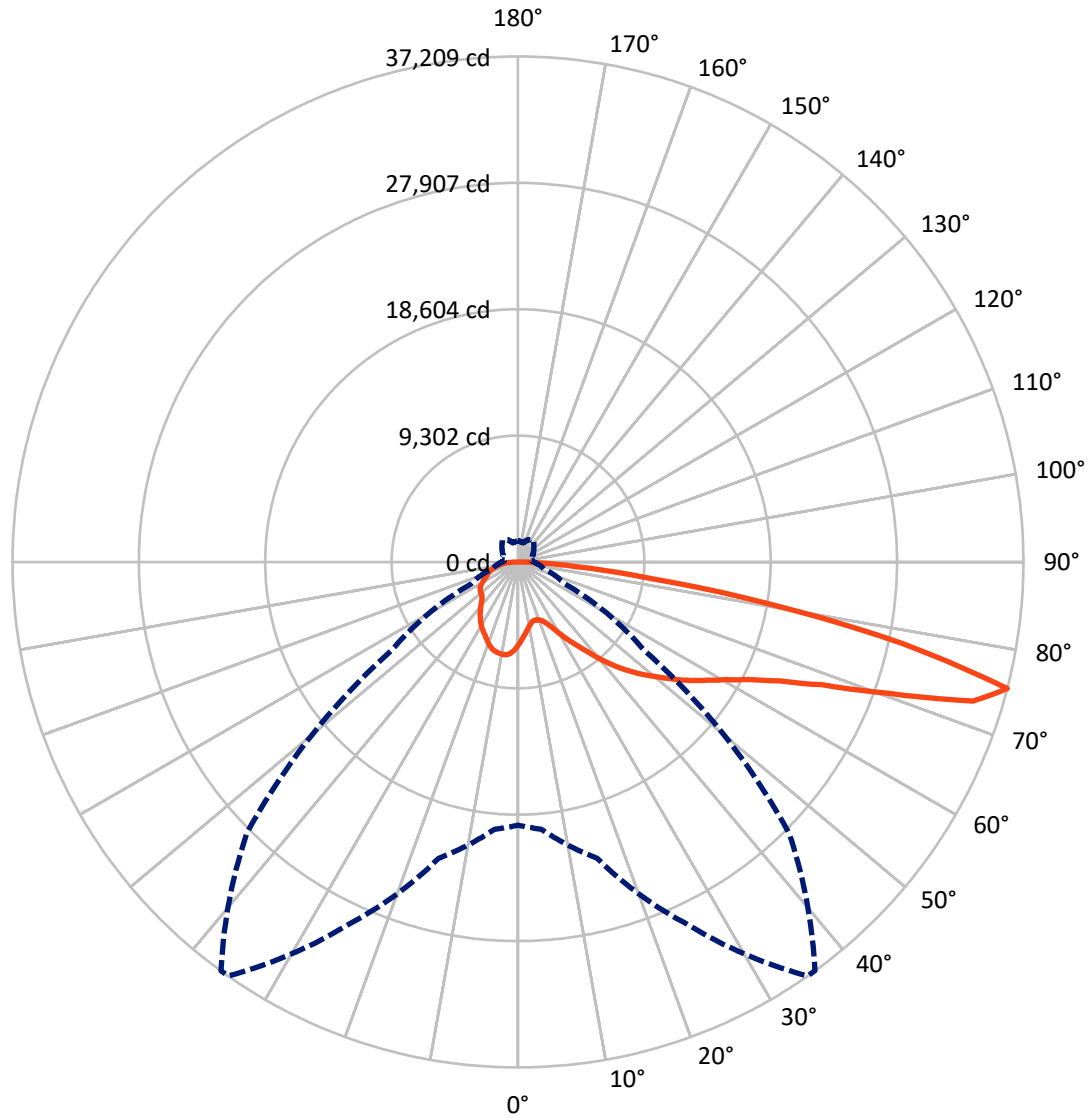
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	10864.0	0.0	10864.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	34788.0	0.0	34788.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	45652.0	0.0	45652.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.0	1.3
10°-20°	1661.4	3.6
20°-30°	2789.9	6.1
30°-40°	4335.9	9.5
40°-50°	6435.6	14.1
50°-60°	8884.7	19.5
60°-70°	10779.2	23.6
70°-80°	8908.2	19.5
80°-90°	1281.3	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°	45652.0	100.0
0°-180°	45652.0	100.0

Coefficient of Utilization



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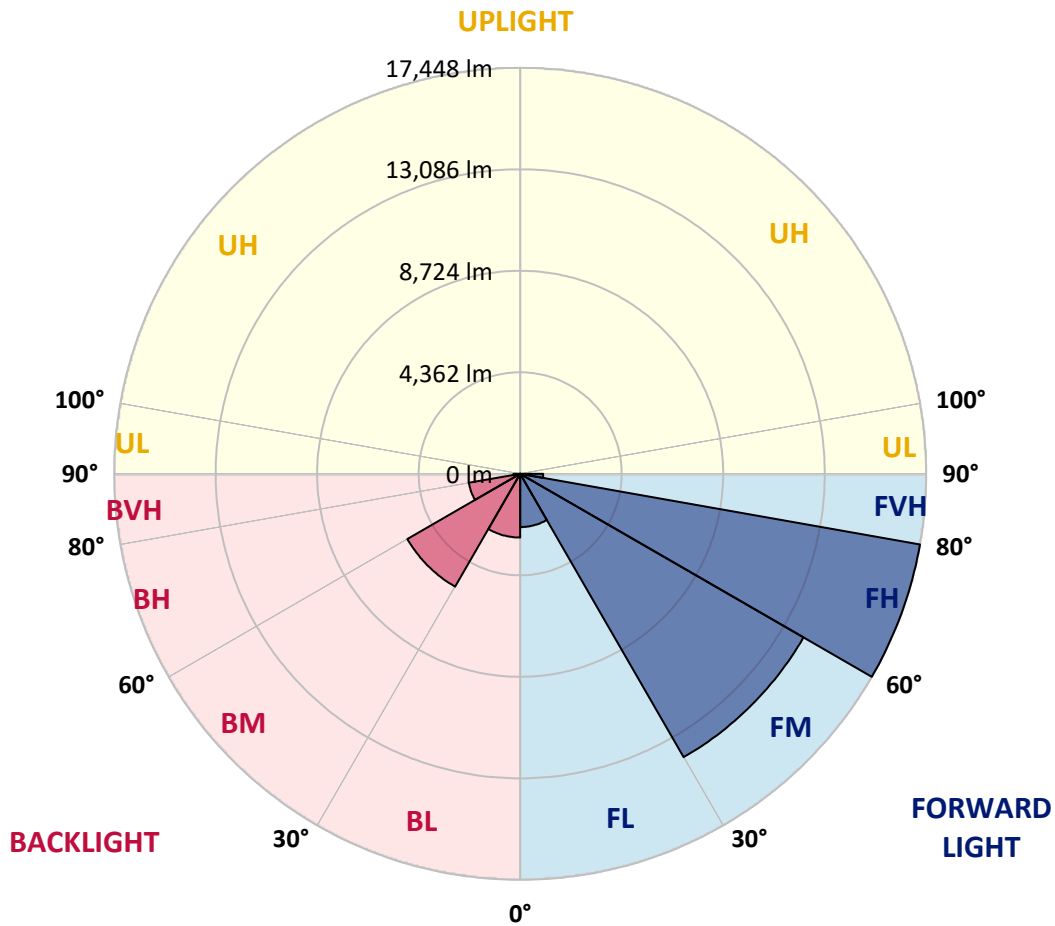
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2289.4	5.0			
FM (30°-60°)	14058.4	30.8			
FH (60°-80°)	17447.5	38.2			G5
FVH (80°-90°)	992.8	2.2			G5
BL (0°-30°)	2737.9	6.0	B4/5000		
BM (30°-60°)	5597.8	12.3	B4/8500		
BH (60°-80°)	2239.8	4.9	B3/2500		G3/2500
BVH (80°-90°)	288.5	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°	6083.4	6083.4	6083.4	6083.4	6083.4	6083.4	6083.4	6083.4	6083.4	6083.4
2.5°	5609.6	5644.1	5659.0	5651.6	5688.6	5683.6	5735.5	5799.6	5888.5	5974.8
5°	5177.7	5214.7	5246.8	5276.4	5348.0	5370.2	5451.6	5575.0	5737.9	5903.3
7.5°	4775.4	4807.5	4856.9	4911.2	5032.1	5054.3	5190.0	5382.5	5609.6	5851.5
10°	4447.2	4479.3	4531.1	4592.8	4743.4	4770.5	4943.3	5199.9	5496.1	5802.1
12.5°	4306.5	4316.4	4346.0	4407.7	4538.5	4555.8	4745.8	5039.5	5385.0	5765.1
15°	4299.1	4318.9	4321.3	4353.4	4462.0	4469.4	4644.6	4935.9	5315.9	5757.7
17.5°	4373.2	4388.0	4365.8	4385.5	4476.8	4489.2	4627.4	4886.5	5293.7	5789.8
20°	4570.6	4582.9	4516.3	4489.2	4555.8	4565.7	4701.4	4918.6	5315.9	5856.4
22.5°	4990.1	4997.6	4834.7	4723.6	4728.5	4733.5	4851.9	5049.4	5402.3	5977.3
25°	5644.1	5639.2	5380.1	5165.4	5042.0	5014.8	5093.8	5261.6	5547.9	6137.7
27.5°	6409.2	6372.2	6113.1	5792.2	5523.2	5483.7	5466.5	5538.0	5755.2	6350.0
30°	7273.0	7238.4	6959.6	6540.0	6167.3	6103.2	5940.3	5903.3	6063.7	6638.7
32.5°	8220.7	8198.5	7865.3	7356.9	6858.4	6784.3	6510.4	6411.7	6537.5	7075.5
35°	9015.3	8995.6	8719.2	8196.0	7586.4	7495.1	7216.2	7105.2	7169.3	7635.8
37.5°	9733.5	9723.6	9486.7	9074.6	8445.2	8334.2	8020.8	7983.7	7971.4	8373.7
40°	10399.8	10375.2	10128.4	9911.2	9444.8	9343.6	9067.2	9035.1	8941.3	9281.9
42.5°	11137.8	11073.6	10715.7	10614.6	10488.7	10404.8	10239.4	10244.4	10037.1	10306.1
45°	11739.9	11702.9	11335.2	11276.0	11411.7	11377.1	11520.3	11557.3	11155.0	11379.6
47.5°	12386.5	12352.0	12041.0	11999.1	12366.8	12376.6	12882.6	12894.9	12245.8	12495.1
50°	13183.7	13134.3	12825.8	12877.6	13289.8	13326.8	14252.3	14168.4	13250.3	13627.9
52.5°	13709.3	13738.9	13672.3	13756.2	14318.9	14353.5	15599.8	15385.1	14244.9	14745.9
55°	14096.8	14156.0	14363.3	14555.8	15404.8	15439.3	16870.7	16542.5	15069.2	15782.4
57.5°	14595.3	14511.4	14898.9	15274.0	16436.4	16527.7	18107.2	17658.0	15799.7	16675.8
60°	15311.0	15251.8	15552.9	16108.2	17591.4	17737.0	19415.2	18662.5	16335.2	17384.1
62.5°	16762.2	16614.1	16661.0	17152.1	19047.5	19240.0	20891.0	19538.6	16601.7	17660.5
65°	18931.5	18677.3	18440.3	18780.9	21098.3	21288.3	22556.8	20227.1	16503.0	17124.9
67.5°	21663.5	21411.7	21120.5	21441.3	24119.0	24269.6	24612.6	20614.6	15725.6	15061.8
70°	23916.7	23822.9	24170.9	25491.2	28943.8	28948.8	27248.4	20293.8	13595.8	10678.7
72.5°	23618.1	23561.3	25395.0	29476.9	35024.8	34894.0	29743.4	17865.3	9158.5	4817.4
75°	19375.7	19743.4	22584.0	29405.3	37208.9	37191.6	28215.8	11357.4	3788.3	1996.6
77.5°	10390.0	10972.4	14661.9	21710.3	29047.5	29484.3	19837.2	3973.4	1626.4	1278.4
80°	3388.5	3896.9	5844.0	11053.8	18874.7	18793.3	8502.0	1559.7	1113.0	905.7
82.5°	1438.8	1498.0	2611.1	5219.7	9686.6	9536.1	2707.3	895.9	782.3	619.4
85°	562.7	629.3	1152.5	2413.6	4195.5	4104.2	977.3	444.2	501.0	404.7
87.5°	185.1	224.6	412.1	826.8	1305.5	1258.6	239.4	153.0	217.2	185.1
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°
6083.4	0°	6083.4	6083.4	6083.4	6083.4	6083.4	6083.4	6083.4	6083.4	6083.4	6083.4
6100.7	2.5°	6135.3	6174.8	6221.6	6290.7	6350.0	6399.3	6451.2	6483.2	6495.6	6532.6
6110.6	5°	6179.7	6266.1	6382.1	6495.6	6606.6	6673.3	6732.5	6762.1	6789.3	6809.0
6137.7	7.5°	6253.7	6364.8	6547.4	6695.5	6789.3	6843.6	6883.0	6873.2	6883.0	6888.0
6167.3	10°	6317.9	6473.4	6690.5	6831.2	6902.8	6905.3	6895.4	6860.8	6843.6	6846.0
6211.8	12.5°	6394.4	6567.2	6801.6	6920.1	6939.8	6885.5	6843.6	6784.3	6762.1	6752.2
6278.4	15°	6498.0	6695.5	6922.5	6967.0	6917.6	6848.5	6776.9	6680.7	6631.3	6591.8
6391.9	17.5°	6623.9	6841.1	7016.3	6984.2	6878.1	6764.6	6648.6	6503.0	6401.8	6359.8
6547.4	20°	6799.1	6994.1	7087.9	6947.2	6786.8	6614.0	6416.6	6238.9	6145.1	6103.2
6744.8	22.5°	7011.4	7198.9	7157.0	6883.0	6656.0	6379.6	6132.8	6002.0	5955.1	5925.5
6999.0	25°	7265.6	7426.0	7206.3	6789.3	6441.3	6068.6	5878.6	5836.6	5814.4	5792.2
7310.0	27.5°	7596.3	7682.7	7243.4	6651.1	6105.6	5737.9	5668.8	5676.2	5668.8	5631.8
7741.9	30°	8033.1	8015.8	7277.9	6426.5	5720.7	5439.3	5444.2	5476.3	5481.3	5456.6
8344.1	32.5°	8608.1	8432.9	7295.2	6135.3	5352.9	5177.7	5182.6	5217.2	5241.9	5199.9
9131.3	35°	9304.1	8919.1	7268.0	5770.0	5069.1	4928.4	4891.4	4901.3	4908.7	4869.2
10086.4	37.5°	10116.0	9464.5	7147.1	5365.3	4834.7	4684.1	4605.2	4538.5	4499.0	4462.0
11167.4	40°	11007.0	10059.3	6925.0	4970.4	4573.1	4425.0	4306.5	4180.7	4047.4	3998.0
12312.5	42.5°	11939.8	10671.3	6656.0	4592.8	4272.0	4151.1	4025.2	3842.6	3642.7	3541.5
13502.0	45°	12907.3	11298.2	6391.9	4220.2	3963.5	3911.7	3766.1	3546.4	3329.2	3200.9
14694.0	47.5°	13854.9	11890.5	6004.5	3845.0	3674.7	3731.5	3618.0	3415.6	3173.8	2971.4
15876.2	50°	14760.7	12445.8	5370.2	3465.0	3440.3	3677.2	3568.6	3277.4	3001.0	2741.9
17036.1	52.5°	15659.0	12894.9	4558.3	3119.5	3314.4	3662.4	3504.5	3183.6	2845.5	2574.0
18126.9	55°	16421.6	13126.9	3775.9	2823.3	3131.8	3536.5	3427.9	3072.6	2625.9	2337.1
18874.7	57.5°	16855.9	12939.3	3124.4	2532.1	2880.1	3329.2	3297.1	2835.6	2364.3	2142.2
19020.3	60°	16668.4	12179.2	2591.3	2277.9	2640.7	3104.7	3070.1	2601.2	2164.4	1954.6
18240.4	62.5°	15634.3	10730.5	2169.3	2055.8	2423.5	2875.1	2843.1	2421.0	2011.4	1809.0
16169.9	65°	13551.4	8729.1	1841.1	1870.7	2203.9	2598.7	2645.6	2270.5	1890.4	1693.0
12509.9	67.5°	10335.7	6322.8	1584.4	1710.3	1989.1	2327.3	2463.0	2161.9	1789.2	1601.7
7238.4	70°	5890.9	3590.8	1367.2	1554.8	1799.1	2075.5	2322.3	2075.5	1680.7	1525.2
2712.3	72.5°	2233.5	1648.6	1182.1	1399.3	1616.5	1863.3	2166.8	1939.8	1554.8	1438.8
1401.8	75°	1192.0	1004.4	994.6	1216.7	1406.7	1656.0	1971.9	1806.5	1461.0	1520.2
969.9	77.5°	811.9	710.8	831.7	1041.5	1177.2	1426.5	1764.6	1604.2	1266.0	1261.1
671.3	80°	562.7	503.5	676.2	839.1	910.7	1199.4	1540.0	1377.1	1031.6	962.5
414.6	82.5°	338.1	328.2	505.9	626.9	644.1	925.5	1275.9	1155.0	844.0	735.4
246.8	85°	185.1	195.0	323.3	367.7	375.1	646.6	999.5	893.4	649.1	545.4
88.8	87.5°	51.8	66.6	118.5	145.6	180.2	335.6	594.8	530.6	325.8	227.0
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>
6083.4
6530.1
6813.9
6895.4
6851.0
6747.3
6604.2
6362.3
6098.2
5930.4
5792.2
5639.2
5468.9
5219.7
4896.4
4486.7
4020.3
3553.8
3191.0
2949.2
2719.7
2544.4
2312.4
2112.5
1925.0
1776.9
1660.9
1572.1
1505.4
1419.1
1569.6
1162.4
920.5
740.4
550.3
227.0
0.0

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