

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: P942772

Luminaire Tested: **GALN-SB6D-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6D-940-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44325 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

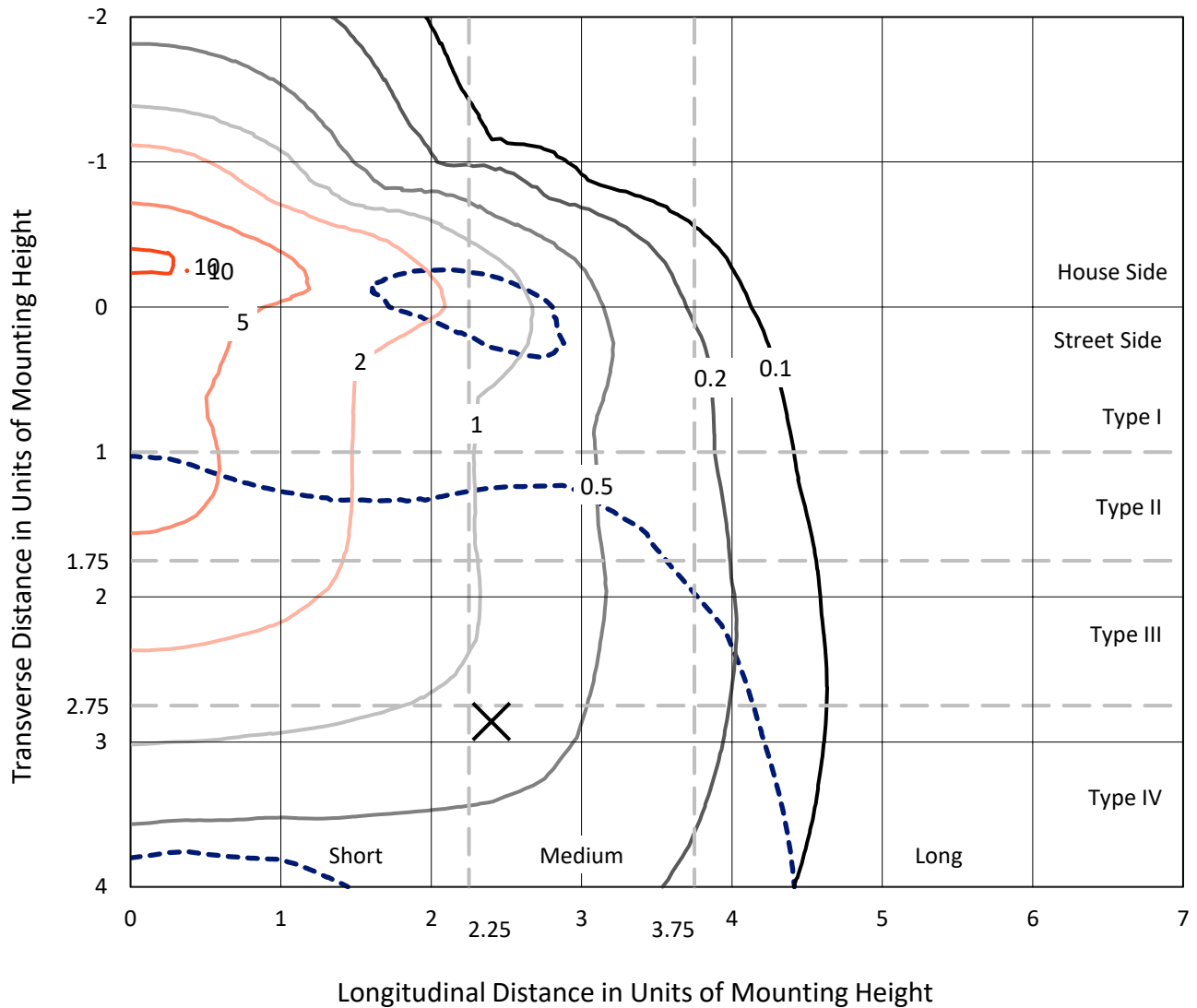
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

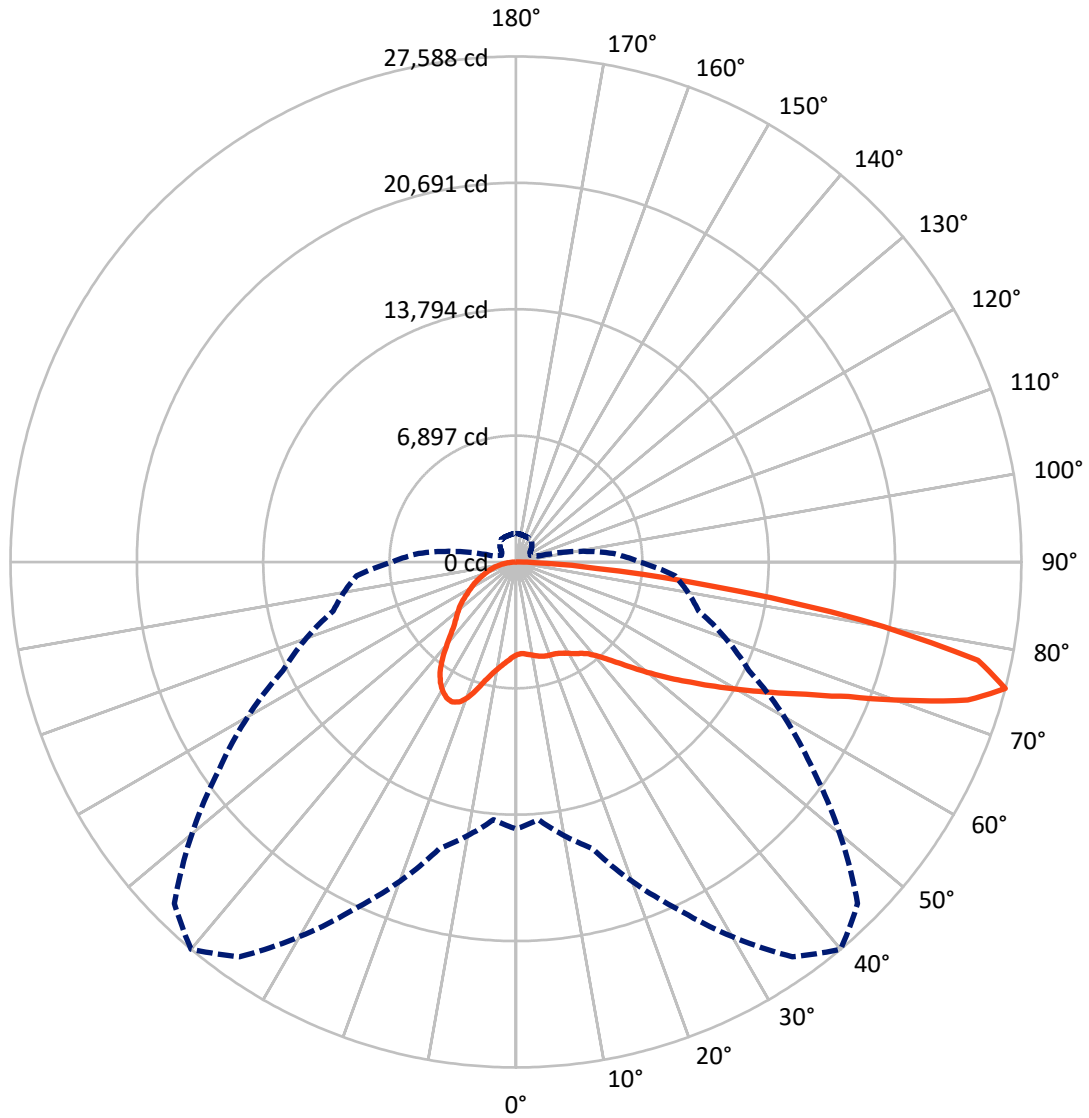
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13733.4	0.0	13733.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	30591.6	0.0	30591.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	44325.0	0.0	44325.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.0	1.1
10°-20°	1698.7	3.8
20°-30°	3101.7	7.0
30°-40°	4399.0	9.9
40°-50°	5940.0	13.4
50°-60°	7990.9	18.0
60°-70°	10142.3	22.9
70°-80°	9204.7	20.8
80°-90°	1341.8	3.0
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°	44325.0	100.0
0°-180°	44325.0	100.0



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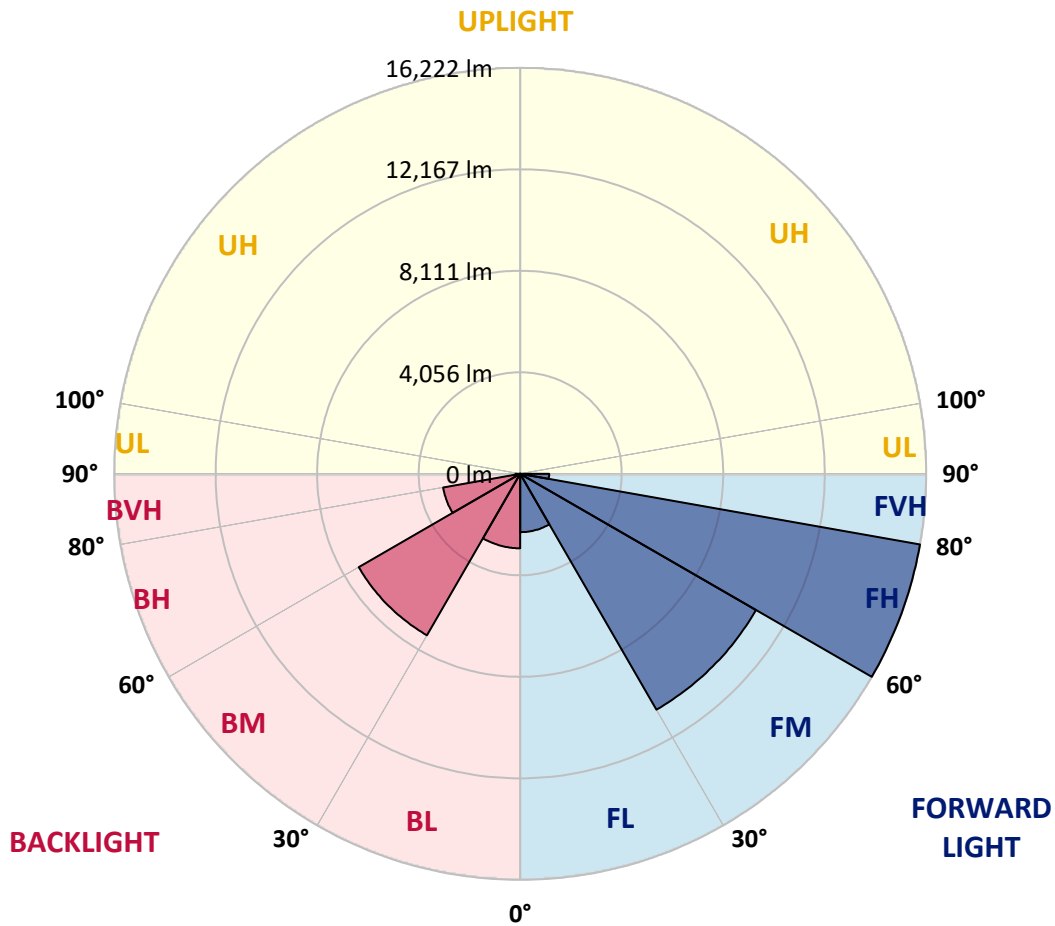
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2331.5	5.3			
FM (30°-60°)	10880.8	24.5			
FH (60°-80°)	16222.3	36.6			G5
FVH (80°-90°)	1157.0	2.6			G5
BL (0°-30°)	2974.8	6.7	B4/5000		
BM (30°-60°)	7449.1	16.8	B4/8500		
BH (60°-80°)	3124.7	7.0	B4/5000		G4/5000
BVH (80°-90°)	184.7	0.4			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	5068.6	5068.6	5068.6	5068.6	5068.6	5068.6	5068.6	5068.6	5068.6	5068.6
2.5°	4991.0	5019.3	5012.2	5002.8	5002.8	5005.1	5002.8	5019.3	5035.7	5052.2
5°	5042.8	5071.0	5056.9	5045.1	5035.7	5033.4	5026.3	5024.0	5033.4	5054.5
7.5°	5143.9	5172.1	5150.9	5129.7	5110.9	5101.5	5092.1	5078.0	5071.0	5082.7
10°	5256.7	5284.9	5259.0	5221.4	5190.9	5179.1	5169.7	5155.6	5146.2	5153.3
12.5°	5369.5	5397.8	5362.5	5310.8	5270.8	5263.8	5252.0	5247.3	5244.9	5242.6
15°	5475.3	5498.8	5454.2	5393.1	5350.7	5339.0	5327.2	5334.3	5346.0	5360.1
17.5°	5557.6	5581.1	5515.3	5435.4	5395.4	5390.7	5383.6	5407.2	5440.1	5475.3
20°	5632.8	5656.4	5571.7	5463.6	5416.6	5416.6	5418.9	5468.3	5515.3	5567.0
22.5°	5738.6	5757.4	5654.0	5505.9	5437.7	5442.4	5461.2	5510.6	5569.4	5639.9
25°	5896.2	5910.3	5783.3	5585.8	5508.2	5522.4	5538.8	5562.3	5618.7	5701.0
27.5°	6150.1	6161.8	5994.9	5726.9	5609.3	5632.8	5656.4	5639.9	5665.8	5736.3
30°	6507.4	6514.4	6302.9	5947.9	5781.0	5792.7	5797.4	5729.2	5679.9	5736.3
32.5°	6930.6	6928.2	6676.7	6215.9	5976.1	5964.3	5924.4	5790.4	5675.2	5724.5
35°	7586.5	7560.6	7236.2	6592.0	6197.1	6124.2	6030.2	5858.5	5698.7	5712.8
37.5°	8672.6	8592.7	8143.7	7208.0	6526.2	6340.5	6201.8	5969.0	5750.4	5708.1
40°	9897.4	9796.4	9302.7	8052.0	7019.9	6721.3	6498.0	6126.5	5835.0	5729.2
42.5°	11350.3	11206.9	10675.6	9046.4	7645.3	7212.7	6876.5	6326.4	5959.6	5797.4
45°	13134.7	12944.3	12192.0	10167.8	8432.8	7856.8	7407.8	6629.6	6150.1	5929.1
47.5°	14937.9	14984.9	13915.2	11451.4	9377.9	8651.5	8073.1	7085.7	6427.5	6140.7
50°	16853.9	16886.8	15629.0	12873.7	10449.9	9549.5	8820.7	7595.9	6813.0	6441.6
52.5°	18349.1	18353.8	17185.4	14361.9	11566.6	10536.9	9627.1	8178.9	7259.7	6841.2
55°	19284.7	19273.0	18276.2	15770.1	12850.2	11573.7	10520.4	8841.9	7805.1	7311.4
57.5°	19964.2	19928.9	19028.5	16980.8	14218.5	12798.5	11531.4	9594.2	8449.3	7870.9
60°	20222.8	20201.6	19538.6	18027.0	15657.2	14152.6	12697.4	10435.8	9180.4	8531.6
62.5°	20321.5	20361.5	20039.4	19040.2	17197.1	15652.5	13978.7	11442.0	10003.2	9279.2
65°	20669.4	20742.3	20676.5	20366.2	18936.8	17408.7	15678.4	12638.6	10901.3	10080.8
67.5°	21358.3	21431.2	21459.4	21953.1	21062.1	19597.4	17799.0	14129.1	11952.2	10913.1
70°	21341.8	21320.7	21819.1	23215.5	23723.3	22627.8	20657.7	15962.9	13205.2	11604.2
72.5°	19425.8	19256.5	20434.4	23201.4	25937.9	25792.1	24148.8	18327.9	14286.7	11688.9
75°	14573.5	14122.1	16202.7	20909.2	26307.0	27588.3	26368.1	19794.9	14030.4	10327.7
77.5°	6232.3	5778.6	8230.6	15478.6	23544.6	25789.8	24332.2	17270.0	11199.9	6829.5
80°	1631.6	1629.2	2487.3	7017.6	16012.2	19045.0	16708.1	11152.9	6399.3	2440.3
82.5°	674.7	658.3	914.5	2729.4	7823.9	10687.4	8722.0	4974.6	2311.0	660.6
85°	251.6	249.2	444.3	942.7	2760.0	4408.0	3190.2	1271.9	576.0	322.1
87.5°	70.5	68.2	96.4	326.8	672.4	1020.3	545.4	209.2	162.2	127.0
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°
5068.6	0°	5068.6	5068.6	5068.6	5068.6	5068.6	5068.6	5068.6	5068.6	5068.6	5068.6
5078.0	2.5°	5085.1	5096.8	5118.0	5134.4	5155.6	5179.1	5212.0	5233.2	5254.3	5268.5
5089.8	5°	5106.2	5132.1	5186.2	5240.2	5303.7	5362.5	5430.7	5480.0	5520.0	5531.8
5132.1	7.5°	5153.3	5195.6	5287.3	5378.9	5480.0	5576.4	5675.2	5759.8	5828.0	5853.8
5207.3	10°	5235.5	5292.0	5421.3	5550.6	5684.6	5832.7	5959.6	6081.9	6178.3	6218.2
5296.7	12.5°	5339.0	5409.5	5578.8	5757.4	5943.2	6147.7	6312.3	6462.7	6582.6	6636.7
5421.3	15°	5473.0	5564.7	5781.0	6020.8	6293.5	6577.9	6787.2	6954.1	7088.1	7153.9
5550.6	17.5°	5618.7	5741.0	6013.7	6375.7	6766.0	7139.8	7384.3	7506.5	7645.3	7708.7
5670.5	20°	5759.8	5910.3	6300.5	6827.1	7346.7	7744.0	7941.5	7974.4	7983.8	7990.8
5783.3	22.5°	5905.6	6107.7	6660.2	7396.1	7953.2	8228.3	8256.5	8115.4	7918.0	7826.3
5893.8	25°	6065.4	6333.4	7130.4	8023.8	8475.1	8508.0	8291.8	7948.5	7574.7	7403.1
5983.1	27.5°	6220.6	6594.4	7694.6	8623.2	8851.3	8562.1	8096.6	7610.0	7158.6	6977.6
6046.6	30°	6375.7	6893.0	8317.6	9147.5	9022.9	8428.1	7788.7	7245.6	6791.9	6601.4
6103.0	32.5°	6533.3	7240.9	9034.7	9526.0	8992.3	8143.7	7405.5	6836.5	6436.9	6237.0
6152.4	35°	6711.9	7668.8	9714.1	9732.9	8787.8	7725.2	6900.0	6347.5	5999.6	5839.7
6211.2	37.5°	6944.7	8211.8	10313.6	9784.6	8430.5	7111.6	6272.3	5769.2	5482.4	5409.5
6298.2	40°	7233.8	8865.4	10772.0	9702.3	7901.5	6366.3	5585.8	5183.8	5021.6	5038.1
6415.7	42.5°	7610.0	9596.5	11094.1	9490.7	7165.7	5597.6	4984.0	4805.3	4882.9	4948.7
6592.0	45°	8099.0	10355.9	11293.9	9131.0	6333.4	4946.4	4629.0	4671.3	4730.1	4737.1
6876.5	47.5°	8724.3	11124.6	11425.6	8588.0	5484.7	4487.9	4403.3	4412.7	4401.0	4351.6
7302.0	50°	9504.8	11872.2	11543.1	7868.6	4763.0	4201.1	4088.3	4055.4	3893.2	3733.3
7868.6	52.5°	10393.5	12558.7	11592.5	6975.2	4201.1	3961.3	3778.0	3571.1	3267.8	3218.4
8580.9	55°	11380.9	13193.5	11465.5	5877.3	3728.6	3653.4	3375.9	3126.7	3093.8	3051.5
9518.9	57.5°	12561.1	13877.6	11206.9	4652.5	3244.3	3293.7	3023.3	3051.5	2992.7	2926.9
10725.0	60°	13851.7	14585.2	10753.2	3535.8	2743.5	2844.6	2931.6	2929.3	2912.8	2858.7
11996.8	62.5°	15013.1	15050.7	9859.8	2708.3	2303.9	2496.7	2734.1	2731.8	2717.7	2687.1
13325.1	65°	15704.3	14980.2	8369.3	2132.3	1941.9	2209.9	2466.1	2484.9	2487.3	2484.9
14324.3	67.5°	15582.0	14155.0	6324.0	1697.4	1643.3	1918.4	2200.5	2226.3	2245.1	2249.8
14451.2	70°	14199.7	12342.4	4123.5	1354.1	1377.6	1662.1	1948.9	1974.8	1991.2	2010.1
12539.9	72.5°	11068.2	9074.6	2360.3	1095.5	1144.9	1441.1	1699.7	1730.3	1739.7	1775.0
8726.7	75°	6744.8	5336.6	1274.2	862.8	940.4	1231.9	1452.9	1488.1	1504.6	1546.9
4285.8	77.5°	3206.7	2311.0	726.4	672.4	757.0	1006.2	1227.2	1267.2	1222.5	1246.0
1182.5	80°	1083.8	858.1	458.4	512.5	578.3	785.2	982.7	1022.7	928.6	923.9
392.6	82.5°	378.5	347.9	291.5	340.9	373.8	561.9	742.9	794.6	691.2	688.8
176.3	85°	148.1	141.1	162.2	185.7	223.3	345.6	489.0	514.9	425.5	343.2
51.7	87.5°	30.6	32.9	40.0	42.3	68.2	119.9	176.3	216.3	171.6	145.8
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>
5068.6
5259.0
5536.5
5856.2
6220.6
6636.7
7149.2
7706.4
8009.6
7852.1
7429.0
6998.7
6622.6
6262.9
5875.0
5461.2
5094.5
5009.8
4784.2
4389.2
3754.4
3234.9
3058.6
2915.2
2839.9
2675.4
2484.9
2254.5
2019.5
1789.1
1551.6
1227.2
914.5
655.9
338.5
134.0
0.0

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