

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: P942692

Luminaire Tested: **GALN-SB6D-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942692
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-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 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: 53190 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

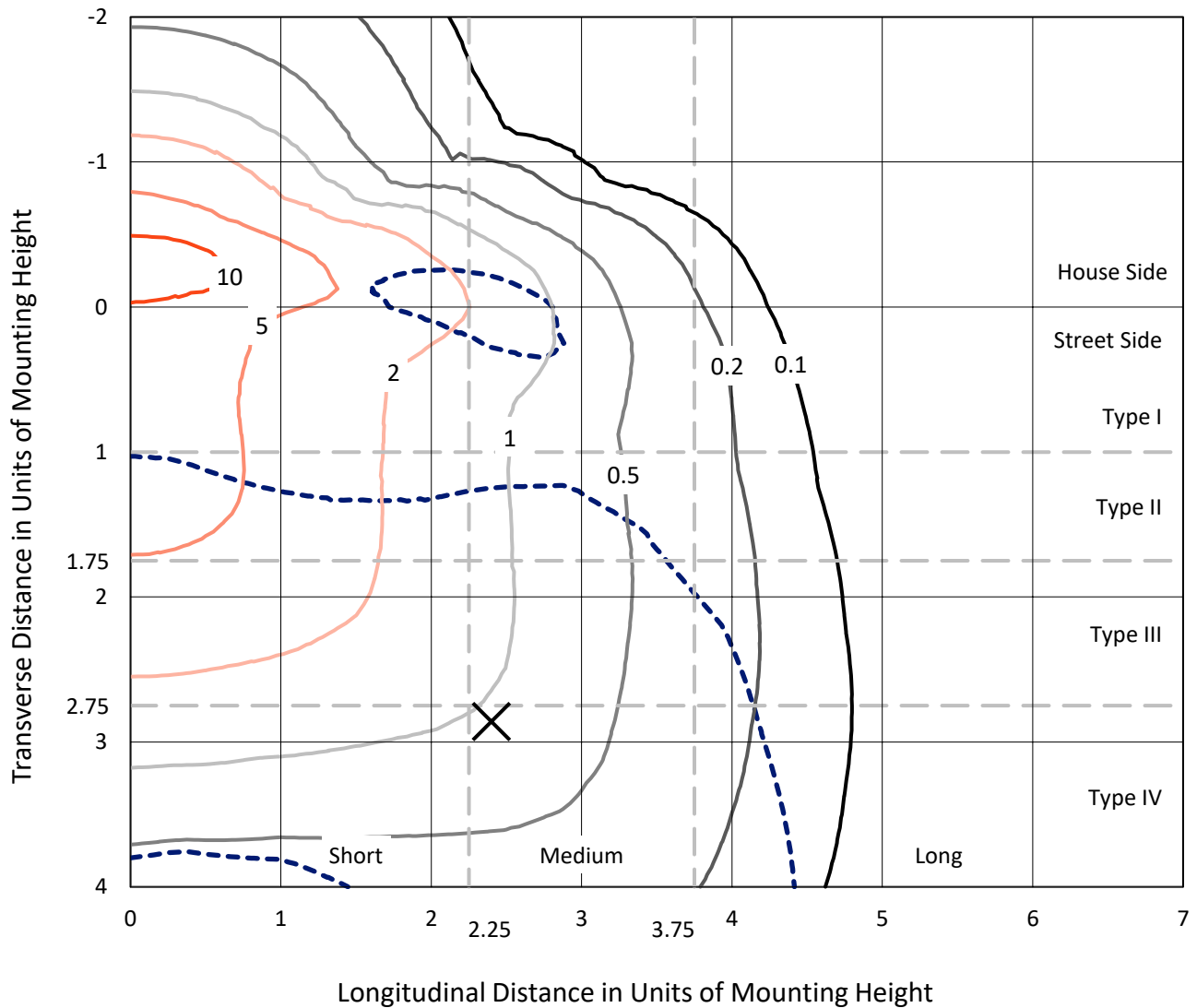
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

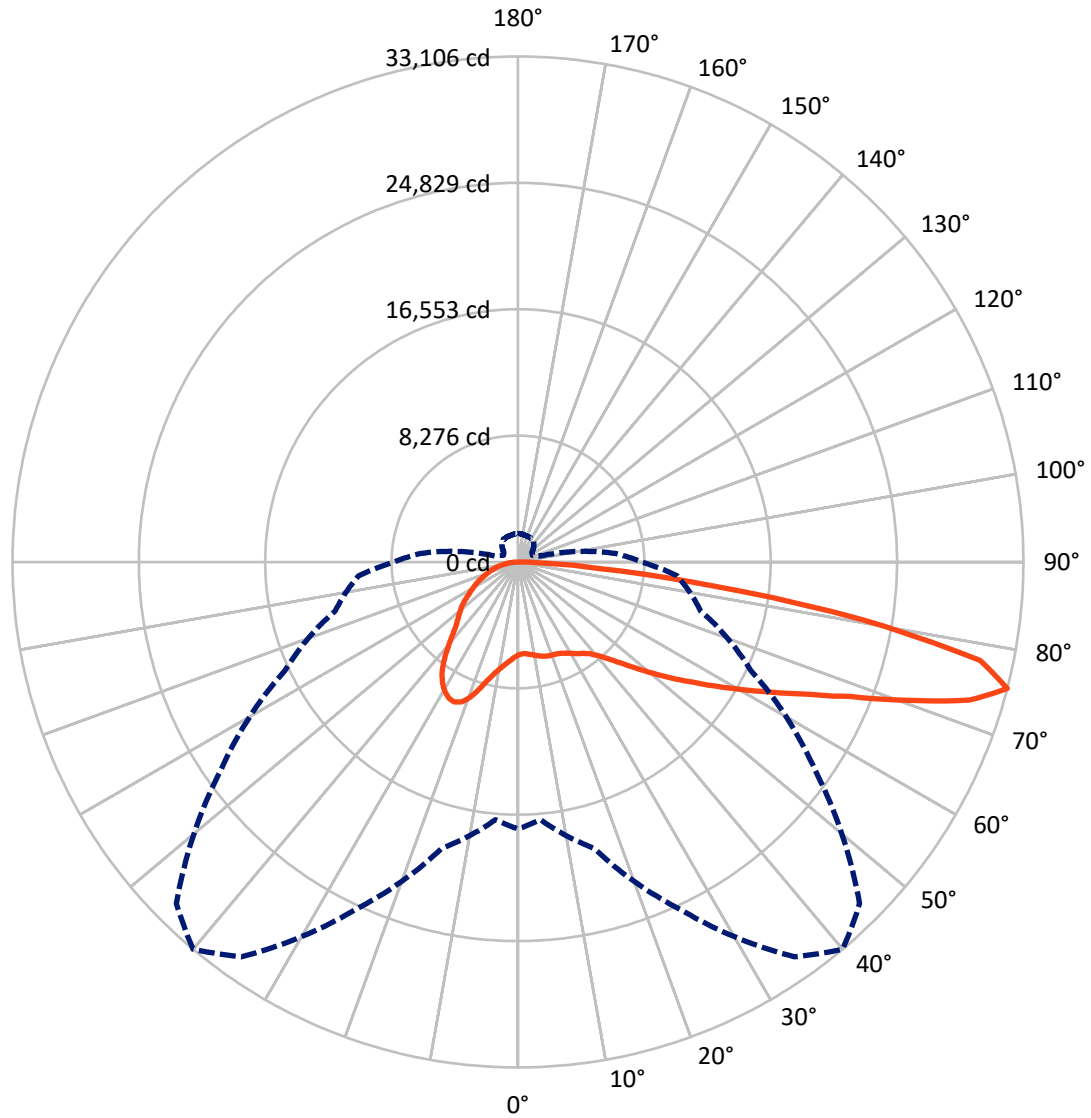
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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	16480.0	0.0	16480.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	36710.0	0.0	36710.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	53190.0	0.0	53190.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.1	1.1
10°-20°	2038.4	3.8
20°-30°	3722.0	7.0
30°-40°	5278.8	9.9
40°-50°	7128.0	13.4
50°-60°	9589.1	18.0
60°-70°	12170.7	22.9
70°-80°	11045.7	20.8
80°-90°	1610.1	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°	53190.0	100.0
0°-180°	53190.0	100.0

Coefficient of Utilization



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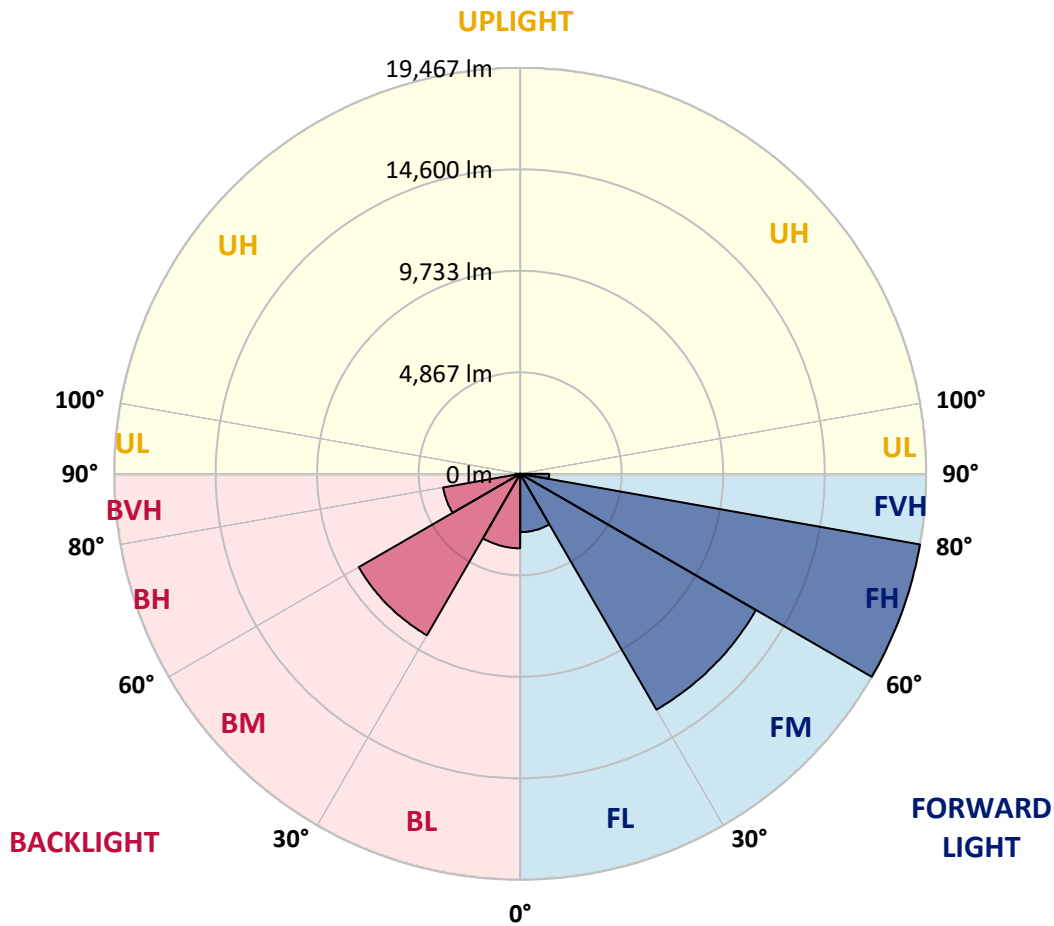
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2797.8	5.3			
FM (30°-60°)	13056.9	24.5			
FH (60°-80°)	19466.7	36.6			G5
FVH (80°-90°)	1388.4	2.6			G5
BL (0°-30°)	3569.7	6.7	B4/5000		
BM (30°-60°)	8938.9	16.8	B5		
BH (60°-80°)	3749.7	7.0	B4/5000		G4/5000
BVH (80°-90°)	221.7	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	6082.3	6082.3	6082.3	6082.3	6082.3	6082.3	6082.3	6082.3	6082.3	6082.3
2.5°	5989.3	6023.1	6014.6	6003.4	6003.4	6006.2	6003.4	6023.1	6042.9	6062.6
5°	6051.3	6085.2	6068.2	6054.1	6042.9	6040.0	6031.6	6028.7	6040.0	6065.4
7.5°	6172.6	6206.5	6181.1	6155.7	6133.1	6121.8	6110.6	6093.6	6085.2	6099.3
10°	6308.0	6341.9	6310.9	6265.7	6229.0	6214.9	6203.7	6186.7	6175.4	6183.9
12.5°	6443.5	6477.3	6435.0	6372.9	6325.0	6316.5	6302.4	6296.8	6293.9	6291.1
15°	6570.4	6598.6	6545.0	6471.7	6420.9	6406.8	6392.7	6401.1	6415.2	6432.2
17.5°	6669.1	6697.4	6618.4	6522.4	6474.5	6468.8	6460.4	6488.6	6528.1	6570.4
20°	6759.4	6787.6	6686.1	6556.3	6499.9	6499.9	6502.7	6561.9	6618.4	6680.4
22.5°	6886.4	6908.9	6784.8	6607.1	6525.3	6530.9	6553.5	6612.7	6683.2	6767.9
25°	7075.4	7092.3	6940.0	6703.0	6609.9	6626.8	6646.6	6674.8	6742.5	6841.2
27.5°	7380.1	7394.2	7193.9	6872.3	6731.2	6759.4	6787.6	6767.9	6798.9	6883.5
30°	7808.9	7817.3	7563.4	7137.4	6937.1	6951.3	6956.9	6875.1	6815.8	6883.5
32.5°	8316.7	8313.9	8012.0	7459.1	7171.3	7157.2	7109.2	6948.4	6810.2	6869.4
35°	9103.8	9072.7	8683.4	7910.4	7436.5	7349.0	7236.2	7030.2	6838.4	6855.3
37.5°	10407.1	10311.2	9772.4	8649.6	7831.4	7608.6	7442.1	7162.8	6900.5	6849.7
40°	11876.9	11755.6	11163.2	9662.4	8423.9	8065.6	7797.6	7351.9	7002.0	6875.1
42.5°	13620.4	13448.3	12810.7	10855.7	9174.3	8655.2	8251.8	7591.6	7151.6	6956.9
45°	15761.6	15533.1	14630.4	12201.4	10119.4	9428.2	8889.4	7955.6	7380.1	7114.9
47.5°	17925.4	17981.9	16698.2	13741.7	11253.5	10381.7	9687.7	8502.9	7713.0	7368.8
50°	20224.7	20264.1	18754.8	15448.5	12539.9	11459.4	10584.9	9115.1	8175.6	7729.9
52.5°	22018.9	22024.5	20622.4	17234.3	13879.9	12644.3	11552.5	9814.7	8711.6	8209.5
55°	23141.7	23127.6	21931.4	18924.1	15420.3	13888.4	12624.5	10610.3	9366.1	8773.7
57.5°	23957.0	23914.7	22834.2	20377.0	17062.2	15358.2	13837.6	11513.0	10139.1	9445.1
60°	24267.3	24241.9	23446.4	21632.4	18788.7	16983.2	15236.9	12523.0	11016.5	10237.9
62.5°	24385.8	24433.8	24047.3	22848.3	20636.5	18783.1	16774.4	13730.4	12003.9	11135.0
65°	24803.3	24890.8	24811.8	24439.4	22724.2	20890.4	18814.1	15166.4	13081.6	12097.0
67.5°	25629.9	25717.4	25751.2	26343.7	25274.5	23516.9	21358.7	16955.0	14342.6	13095.7
70°	25610.2	25584.8	26182.9	27858.6	28468.0	27153.3	24789.2	19155.4	15846.3	13925.1
72.5°	23311.0	23107.8	24521.2	27841.7	31125.5	30950.6	28978.6	21993.5	17144.0	14026.6
75°	17488.2	16946.5	19443.2	25091.1	31568.4	33105.9	31641.7	23753.9	16836.5	12393.2
77.5°	7478.8	6934.3	9876.8	18574.3	28253.6	30947.8	29198.7	20724.0	13439.8	8195.4
80°	1957.9	1955.0	2984.8	8421.1	19214.7	22853.9	20049.7	13383.4	7679.1	2928.3
82.5°	809.7	789.9	1097.4	3275.3	9388.7	12824.8	10466.4	5969.5	2773.2	792.7
85°	301.9	299.0	533.2	1131.3	3312.0	5289.6	3828.3	1526.2	691.2	386.5
87.5°	84.6	81.8	115.7	392.1	806.8	1224.4	654.5	251.1	194.7	152.3
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°
6082.3	0°	6082.3	6082.3	6082.3	6082.3	6082.3	6082.3	6082.3	6082.3	6082.3	6082.3
6093.6	2.5°	6102.1	6116.2	6141.6	6161.3	6186.7	6214.9	6254.4	6279.8	6305.2	6322.1
6107.7	5°	6127.5	6158.5	6223.4	6288.3	6364.5	6435.0	6516.8	6576.0	6624.0	6638.1
6158.5	7.5°	6183.9	6234.7	6344.7	6454.7	6576.0	6691.7	6810.2	6911.8	6993.6	7024.6
6248.8	10°	6282.6	6350.4	6505.5	6660.7	6821.5	6999.2	7151.6	7298.3	7413.9	7461.9
6356.0	12.5°	6406.8	6491.4	6694.5	6908.9	7131.8	7377.2	7574.7	7755.3	7899.2	7964.0
6505.5	15°	6567.6	6677.6	6937.1	7224.9	7552.2	7893.5	8144.6	8344.9	8505.7	8584.7
6660.7	17.5°	6742.5	6889.2	7216.4	7650.9	8119.2	8567.8	8861.2	9007.9	9174.3	9250.5
6804.6	20°	6911.8	7092.3	7560.6	8192.5	8816.0	9292.8	9529.8	9569.3	9580.5	9589.0
6940.0	22.5°	7086.7	7329.3	7992.2	8875.3	9543.9	9873.9	9907.8	9738.5	9501.6	9391.5
7072.6	25°	7278.5	7600.1	8556.5	9628.5	10170.2	10209.7	9950.1	9538.2	9089.7	8883.7
7179.8	27.5°	7464.7	7913.3	9233.5	10347.9	10621.5	10274.5	9716.0	9132.0	8590.3	8373.1
7255.9	30°	7650.9	8271.5	9981.1	10977.0	10827.5	10113.7	9346.4	8694.7	8150.2	7921.7
7323.6	32.5°	7839.9	8689.1	10841.6	11431.2	10790.8	9772.4	8886.5	8203.8	7724.2	7484.4
7382.9	35°	8054.3	9202.5	11656.9	11679.5	10545.4	9270.2	8280.0	7617.0	7199.5	7007.7
7453.4	37.5°	8333.6	9854.2	12376.3	11741.5	10116.6	8533.9	7526.8	6923.0	6578.9	6491.4
7557.8	40°	8680.6	10638.5	12926.4	11642.8	9481.8	7639.6	6703.0	6220.6	6025.9	6045.7
7698.9	42.5°	9132.0	11515.8	13312.9	11388.9	8598.8	6717.1	5980.8	5766.4	5859.5	5938.5
7910.4	45°	9718.8	12427.1	13552.7	10957.3	7600.1	5935.6	5554.8	5605.6	5676.1	5684.6
8251.8	47.5°	10469.2	13349.6	13710.7	10305.6	6581.7	5385.5	5284.0	5295.3	5281.1	5221.9
8762.4	50°	11405.8	14246.7	13851.7	9442.3	5715.6	5041.4	4905.9	4866.4	4671.8	4479.9
9442.3	52.5°	12472.2	15070.5	13911.0	8370.3	5041.4	4753.6	4533.5	4285.3	3921.4	3862.1
10297.1	55°	13657.1	15832.2	13758.6	7052.8	4474.3	4384.0	4051.1	3752.1	3712.6	3661.8
11422.7	57.5°	15073.3	16653.1	13448.3	5583.0	3893.2	3952.4	3628.0	3661.8	3591.3	3512.3
12870.0	60°	16622.1	17502.3	12903.8	4243.0	3292.3	3413.6	3517.9	3515.1	3495.4	3430.5
14396.2	62.5°	18015.7	18060.8	11831.8	3249.9	2764.7	2996.0	3281.0	3278.1	3261.2	3224.5
15990.1	65°	18845.1	17976.2	10043.2	2558.8	2330.2	2651.9	2959.4	2981.9	2984.8	2981.9
17189.1	67.5°	18698.4	16986.0	7588.8	2036.9	1972.0	2302.0	2640.6	2671.6	2694.2	2699.8
17341.5	70°	17039.6	14810.9	4948.3	1625.0	1653.2	1994.5	2338.7	2369.7	2389.5	2412.1
15047.9	72.5°	13281.9	10889.5	2832.4	1314.6	1373.9	1729.4	2039.7	2076.3	2087.6	2130.0
10472.0	75°	8093.8	6404.0	1529.1	1035.4	1128.5	1478.3	1743.5	1785.8	1805.5	1856.3
5142.9	77.5°	3848.0	2773.2	871.7	806.8	908.4	1207.4	1472.6	1520.6	1467.0	1495.2
1419.0	80°	1300.5	1029.7	550.1	615.0	694.0	942.3	1179.2	1227.2	1114.3	1108.7
471.1	82.5°	454.2	417.5	349.8	409.1	448.6	674.2	891.5	953.5	829.4	826.6
211.6	85°	177.7	169.3	194.7	222.9	268.0	414.7	586.8	617.8	510.6	411.9
62.1	87.5°	36.7	39.5	48.0	50.8	81.8	143.9	211.6	259.5	205.9	174.9
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>
6082.3
6310.9
6643.8
7027.4
7464.7
7964.0
8579.0
9247.7
9611.6
9422.6
8914.8
8398.5
7947.1
7515.5
7050.0
6553.5
6113.4
6011.8
5741.0
5267.0
4505.3
3881.9
3670.3
3498.2
3407.9
3210.4
2981.9
2705.5
2423.3
2146.9
<i>1861.9</i>
1472.6
1097.4
787.1
406.2
160.8
0.0

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