

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: P944102

Luminaire Tested: **GALN-SB8D-927-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944102
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-SB8D-927-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 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: 49649 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

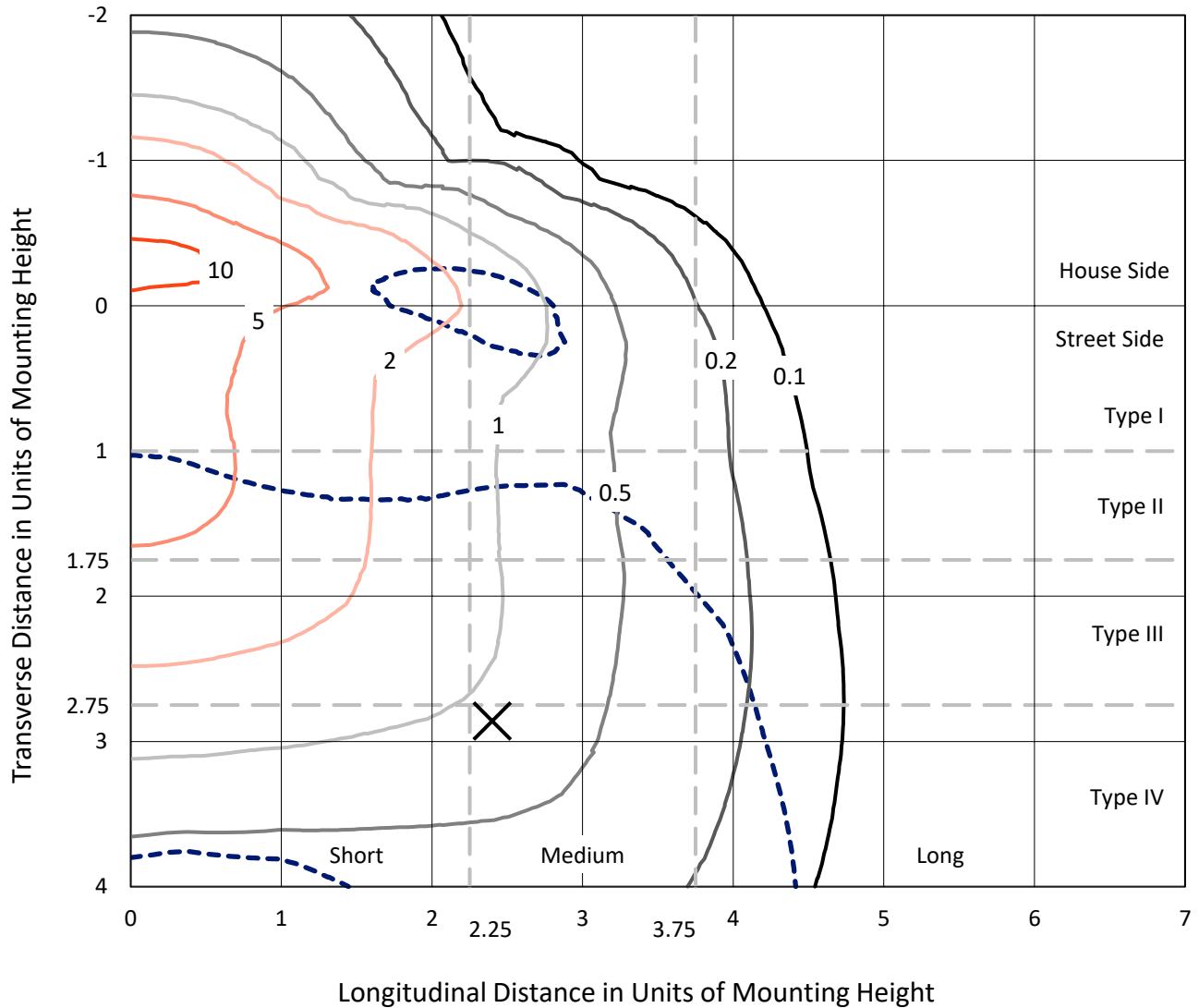
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

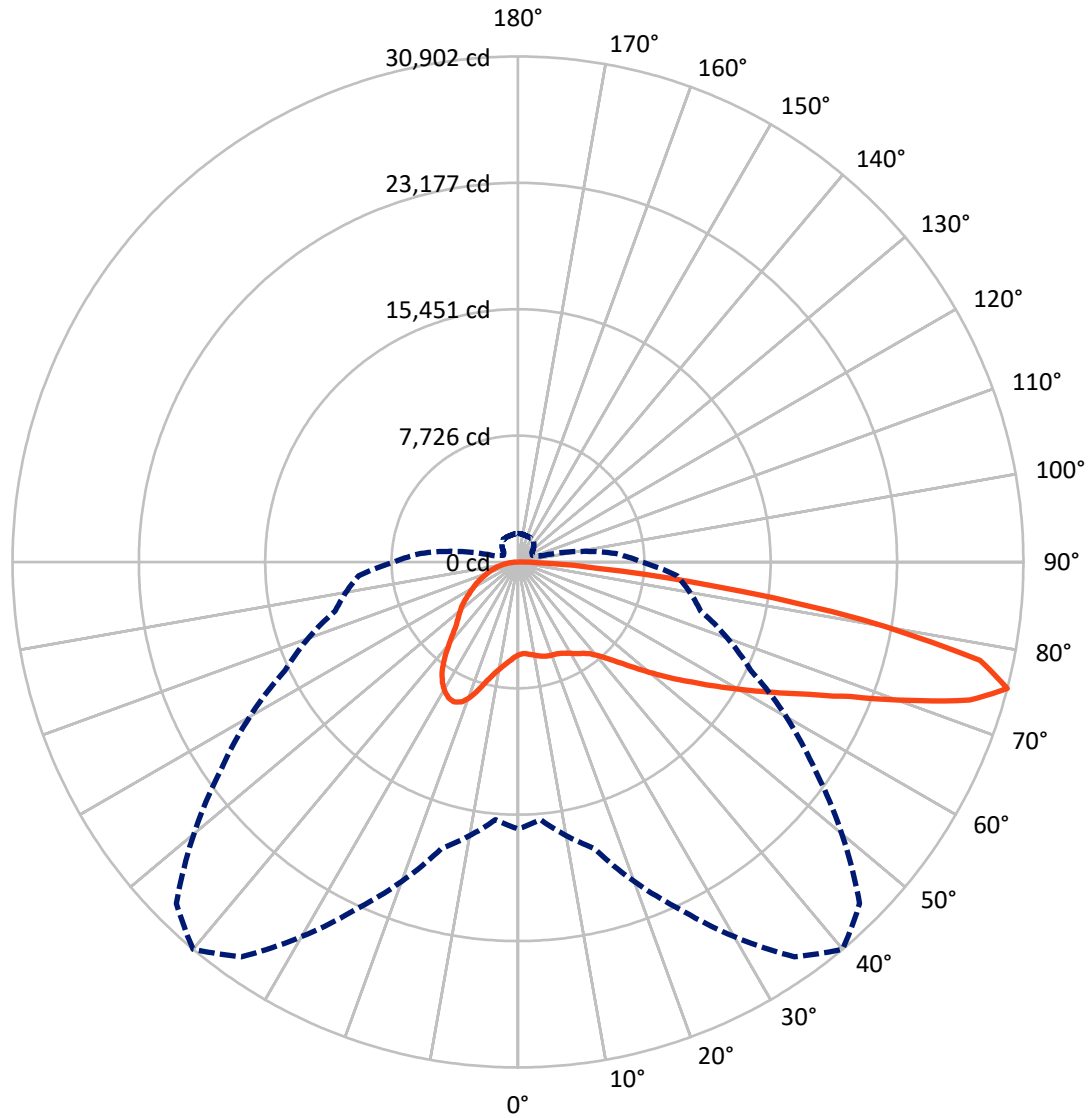
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	15382.9	0.0	15382.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	34266.1	0.0	34266.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	49649.0	0.0	49649.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.7	1.1
10°-20°	1902.7	3.8
20°-30°	3474.2	7.0
30°-40°	4927.4	9.9
40°-50°	6653.5	13.4
50°-60°	8950.7	18.0
60°-70°	11360.5	22.9
70°-80°	10310.3	20.8
80°-90°	1502.9	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°	49649.0	100.0
0°-180°	49649.0	100.0

Coefficient of Utilization



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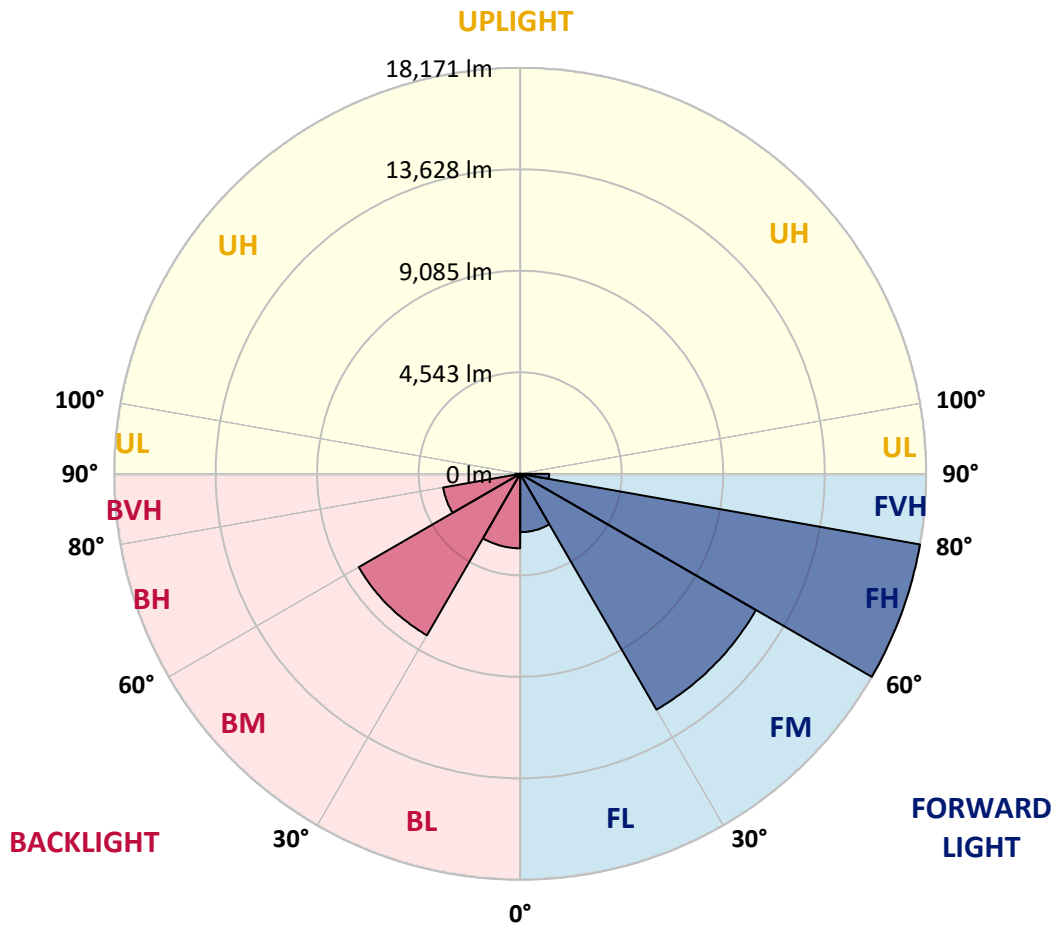
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2611.6	5.3			
FM (30°-60°)	12187.7	24.5			
FH (60°-80°)	18170.8	36.6			G5
FVH (80°-90°)	1296.0	2.6			G5
BL (0°-30°)	3332.1	6.7	B4/5000		
BM (30°-60°)	8343.8	16.8	B4/8500		
BH (60°-80°)	3500.1	7.0	B4/5000		G4/5000
BVH (80°-90°)	206.9	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°	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4
2.5°	5590.5	5622.1	5614.2	5603.7	5603.7	5606.3	5603.7	5622.1	5640.6	5659.0
5°	5648.5	5680.1	5664.3	5651.1	5640.6	5637.9	5630.0	5627.4	5637.9	5661.6
7.5°	5761.7	5793.3	5769.6	5745.9	5724.8	5714.3	5703.8	5688.0	5680.1	5693.2
10°	5888.1	5919.7	5890.7	5848.6	5814.4	5801.2	5790.7	5774.9	5764.3	5772.2
12.5°	6014.5	6046.1	6006.6	5948.7	5903.9	5896.0	5882.8	5877.6	5874.9	5872.3
15°	6133.0	6159.3	6109.3	6040.8	5993.4	5980.3	5967.1	5975.0	5988.2	6004.0
17.5°	6225.2	6251.5	6177.8	6088.2	6043.5	6038.2	6030.3	6056.6	6093.5	6133.0
20°	6309.4	6335.8	6241.0	6119.8	6067.2	6067.2	6069.8	6125.1	6177.8	6235.7
22.5°	6427.9	6449.0	6333.1	6167.2	6090.9	6096.1	6117.2	6172.5	6238.3	6317.3
25°	6604.4	6620.2	6478.0	6256.8	6169.9	6185.7	6204.1	6230.4	6293.6	6385.8
27.5°	6888.8	6901.9	6715.0	6414.8	6283.1	6309.4	6335.8	6317.3	6346.3	6425.3
30°	7289.0	7296.9	7059.9	6662.3	6475.3	6488.5	6493.8	6417.4	6362.1	6425.3
32.5°	7763.0	7760.4	7478.6	6962.5	6693.9	6680.7	6636.0	6485.9	6356.8	6412.1
35°	8497.7	8468.7	8105.3	7383.8	6941.4	6859.8	6754.5	6562.2	6383.2	6399.0
37.5°	9714.3	9624.8	9121.8	8073.7	7310.1	7102.1	6946.7	6686.0	6441.1	6393.7
40°	11086.3	10973.0	10420.0	9019.1	7863.1	7528.7	7278.5	6862.4	6535.9	6417.4
42.5°	12713.6	12553.0	11957.9	10133.0	8563.5	8079.0	7702.4	7086.3	6675.5	6493.8
45°	14712.3	14499.0	13656.4	11389.1	9445.7	8800.5	8297.6	7426.0	6888.8	6641.2
47.5°	16732.1	16784.8	15586.6	12826.9	10504.3	9690.6	9042.8	7936.8	7199.5	6878.2
50°	18878.2	18915.1	17506.3	14420.0	11705.1	10696.5	9880.2	8508.2	7631.3	7215.3
52.5°	20553.0	20558.3	19249.5	16086.9	12955.9	11802.5	10783.4	9161.3	8131.7	7662.9
55°	21601.1	21587.9	20471.4	17664.3	14393.7	12963.8	11784.1	9903.9	8742.6	8189.6
57.5°	22362.1	22322.6	21314.1	19020.4	15926.3	14335.8	12916.4	10746.6	9464.1	8816.3
60°	22651.8	22628.1	21885.5	20192.3	17537.9	15852.6	14222.5	11689.3	10283.1	9556.3
62.5°	22762.4	22807.1	22446.4	21327.2	19262.7	17532.6	15657.7	12816.3	11204.8	10393.7
65°	23152.1	23233.7	23160.0	22812.4	21211.4	19499.7	17561.6	14156.7	12210.7	11291.7
67.5°	23923.7	24005.3	24036.9	24589.9	23591.9	21951.3	19936.8	15826.2	13387.8	12223.9
70°	23905.2	23881.5	24439.8	26004.0	26572.8	25345.7	23138.9	17880.2	14791.3	12998.0
72.5°	21759.1	21569.5	22888.8	25988.2	29053.4	28890.1	27049.4	20529.3	16002.7	13092.8
75°	16323.9	15818.3	18148.8	23420.7	29466.8	30902.0	29535.3	22172.5	15715.6	11568.2
77.5°	6980.9	6472.7	9219.2	17337.8	26372.7	28887.5	27254.8	19344.3	12545.1	7649.8
80°	1827.5	1824.9	2786.0	7860.4	17935.5	21332.5	18715.0	12492.5	7167.9	2733.4
82.5°	755.8	737.3	1024.4	3057.3	8763.7	11971.1	9769.6	5572.1	2588.5	740.0
85°	281.8	279.1	497.7	1056.0	3091.5	4937.5	3573.4	1424.6	645.2	360.8
87.5°	79.0	76.4	108.0	366.0	753.1	1142.9	610.9	234.4	181.7	142.2
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°
5677.4	0°	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4
5688.0	2.5°	5695.9	5709.0	5732.7	5751.2	5774.9	5801.2	5838.1	5861.8	5885.5	5901.3
5701.1	5°	5719.6	5748.5	5809.1	5869.7	5940.8	6006.6	6083.0	6138.3	6183.0	6196.2
5748.5	7.5°	5772.2	5819.6	5922.3	6025.0	6138.3	6246.2	6356.8	6451.6	6528.0	6557.0
5832.8	10°	5864.4	5927.6	6072.4	6217.3	6367.4	6533.3	6675.5	6812.4	6920.4	6965.1
5932.9	12.5°	5980.3	6059.3	6248.9	6449.0	6657.0	6886.1	7070.5	7239.0	7373.3	7433.9
6072.4	15°	6130.4	6233.1	6475.3	6743.9	7049.4	7368.0	7602.4	7789.3	7939.4	8013.2
6217.3	17.5°	6293.6	6430.6	6736.0	7141.6	7578.7	7997.4	8271.2	8408.2	8563.5	8634.6
6351.6	20°	6451.6	6620.2	7057.3	7647.1	8229.1	8674.1	8895.3	8932.2	8942.7	8950.6
6478.0	22.5°	6614.9	6841.4	7460.2	8284.4	8908.5	9216.6	9248.2	9090.2	8869.0	8766.3
6601.7	25°	6794.0	7094.2	7986.8	8987.5	9493.1	9530.0	9287.7	8903.2	8484.5	8292.3
6701.8	27.5°	6967.8	7386.5	8618.8	9659.0	9914.4	9590.5	9069.1	8524.0	8018.4	7815.7
6772.9	30°	7141.6	7720.9	9316.7	10246.2	10106.7	9440.4	8724.2	8115.9	7607.6	7394.4
6836.1	32.5°	7318.0	8110.6	10119.8	10670.2	10072.4	9121.8	8294.9	7657.7	7210.0	6986.2
6891.4	35°	7518.1	8589.9	10880.9	10901.9	9843.3	8653.1	7728.8	7110.0	6720.2	6541.2
6957.2	37.5°	7778.8	9198.2	11552.4	10959.9	9443.1	7965.8	7025.7	6462.2	6140.9	6059.3
7054.7	40°	8102.7	9930.2	12065.9	10867.7	8850.6	7131.0	6256.8	5806.5	5624.8	5643.2
7186.3	42.5°	8524.0	10749.2	12426.6	10630.7	8026.3	6269.9	5582.6	5382.5	5469.4	5543.1
7383.8	45°	9071.8	11599.8	12650.5	10227.8	7094.2	5540.5	5185.0	5232.4	5298.2	5306.1
7702.4	47.5°	9772.2	12460.9	12797.9	9619.5	6143.5	5027.0	4932.2	4942.7	4929.6	4874.3
8179.1	50°	10646.5	13298.2	12929.6	8813.7	5335.1	4705.7	4579.3	4542.5	4360.8	4181.7
8813.7	52.5°	11641.9	14067.2	12984.9	7813.0	4705.7	4437.1	4231.7	4000.0	3660.3	3605.0
9611.6	55°	12747.9	14778.2	12842.7	6583.3	4176.4	4092.2	3781.4	3502.3	3465.4	3418.0
10662.3	57.5°	14069.8	15544.5	12553.0	5211.3	3634.0	3689.3	3386.4	3418.0	3352.2	3278.5
12013.2	60°	15515.5	16337.1	12044.8	3960.5	3073.1	3186.3	3283.7	3281.1	3262.7	3202.1
13437.8	62.5°	16816.4	16858.5	11044.1	3033.6	2580.6	2796.6	3062.5	3059.9	3044.1	3009.9
14925.6	65°	17590.6	16779.5	9374.6	2388.4	2175.1	2475.3	2762.3	2783.4	2786.0	2783.4
16044.8	67.5°	17453.6	15855.2	7083.6	1901.3	1840.7	2148.8	2464.8	2493.8	2514.8	2520.1
16187.0	70°	15905.2	13824.9	4618.8	1516.8	1543.1	1861.8	2183.0	2212.0	2230.4	2251.5
14046.1	72.5°	12397.7	10164.6	2643.8	1227.1	1282.4	1614.2	1903.9	1938.1	1948.7	1988.2
9774.9	75°	7555.0	5977.6	1427.3	966.4	1053.3	1379.9	1627.4	1666.9	1685.3	1732.7
4800.5	77.5°	3591.8	2588.5	813.7	753.1	847.9	1127.1	1374.6	1419.4	1369.3	1395.7
1324.6	80°	1214.0	961.2	513.5	574.1	647.8	879.5	1100.7	1145.5	1040.2	1034.9
439.8	82.5°	424.0	389.7	326.5	381.8	418.7	629.4	832.1	890.1	774.2	771.6
197.5	85°	165.9	158.0	181.7	208.0	250.2	387.1	547.7	576.7	476.6	384.5
57.9	87.5°	34.2	36.9	44.8	47.4	76.4	134.3	197.5	242.3	192.2	163.3
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>
5677.4
5890.7
6201.5
6559.6
6967.8
7433.9
8007.9
8632.0
8971.7
8795.3
8321.3
7839.4
7418.1
7015.2
6580.7
6117.2
5706.4
5611.6
5358.8
4916.4
4205.4
3623.4
3425.9
3265.3
3181.0
2996.7
2783.4
2525.4
2262.0
2004.0
1738.0
1374.6
1024.4
734.7
379.2
150.1
0.0

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