

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: P956934

Luminaire Tested: **GALN-SB9B-940-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9B-940-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36324 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

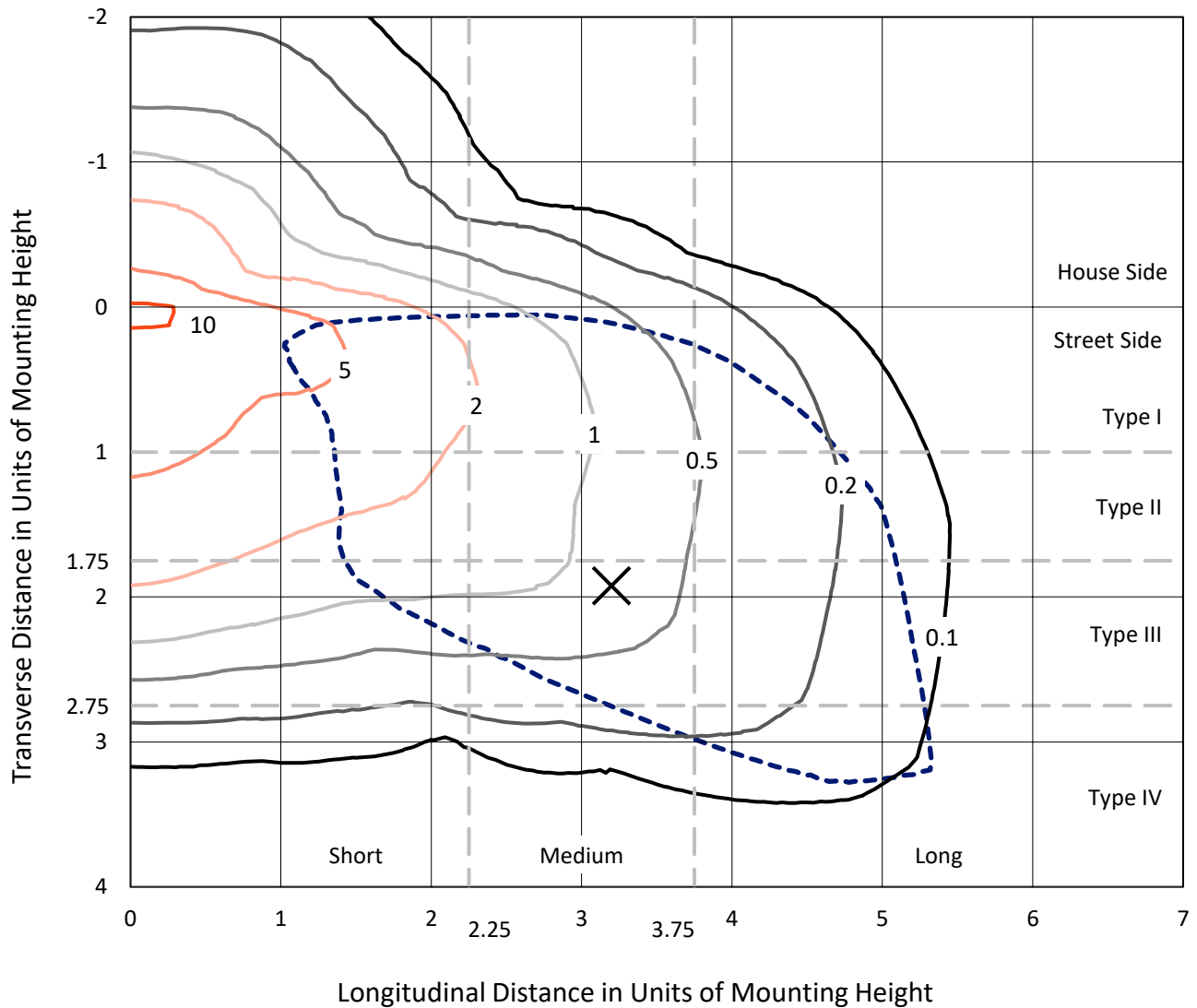
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P956934
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Iso-Footcandle Lines of Horizontal Illumination

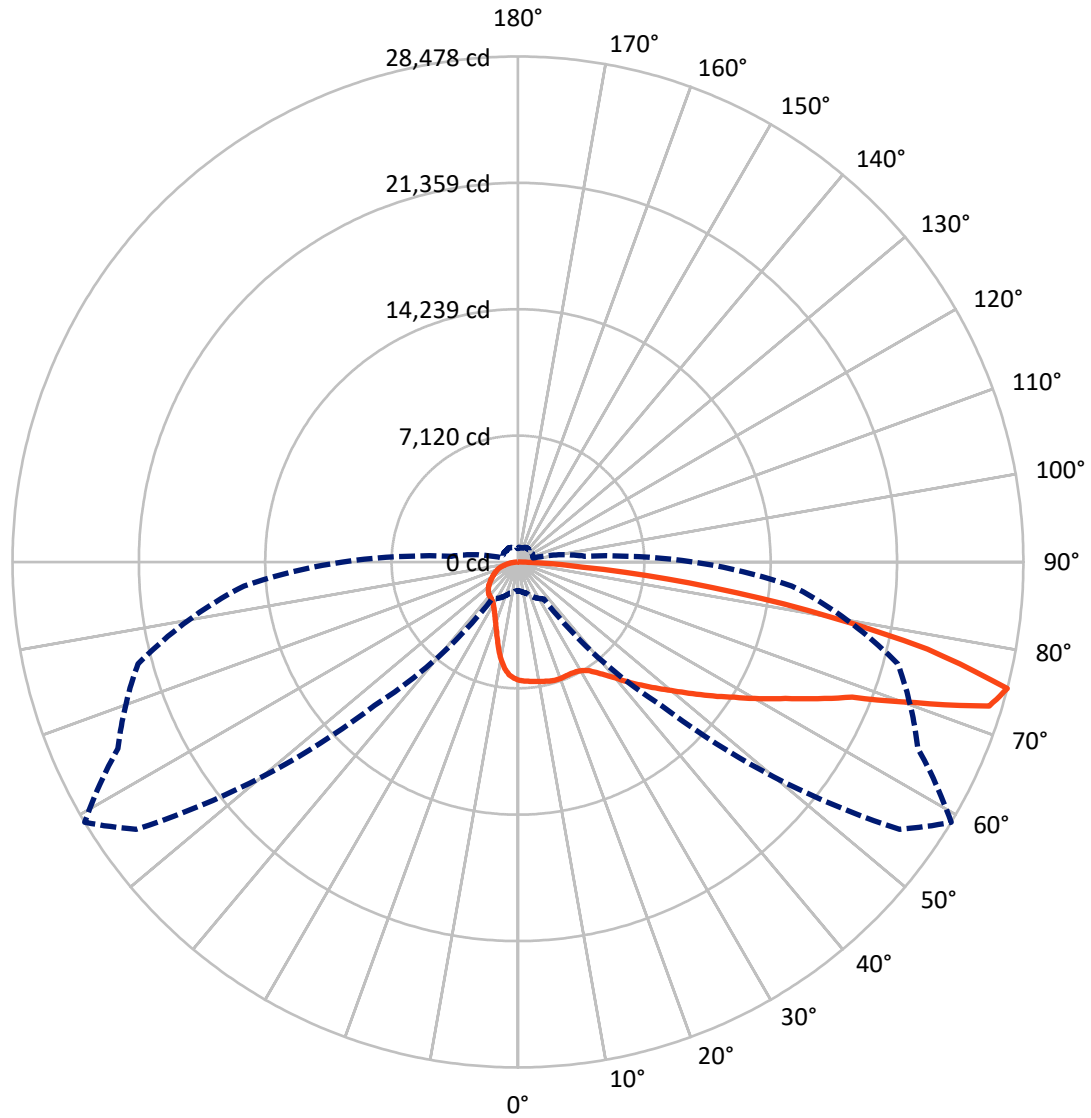
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P956934
CATALOG NUMBER: GALN-SB9B-940-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6812.8	0.0	6812.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	29511.2	0.0	29511.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	36324.0	0.0	36324.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.8	1.6
10°-20°	1528.1	4.2
20°-30°	2321.0	6.4
30°-40°	3450.1	9.5
40°-50°	5130.9	14.1
50°-60°	6964.6	19.2
60°-70°	8502.7	23.4
70°-80°	6672.8	18.4
80°-90°	1155.9	3.2
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°	36324.0	100.0
0°-180°	36324.0	100.0



REPORT NUMBER: P956934

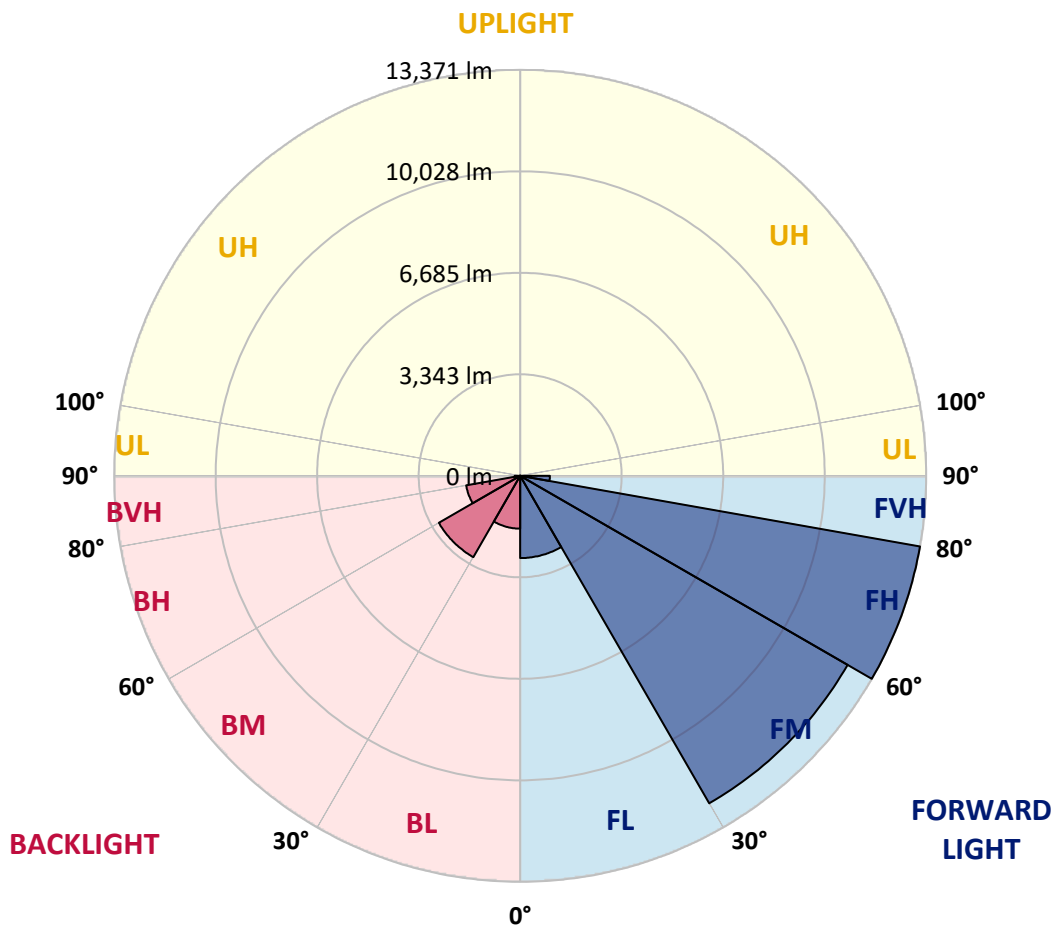
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2708.3	7.5			
FM (30°-60°)	12453.4	34.3			
FH (60°-80°)	13370.5	36.8			G5
FVH (80°-90°)	979.0	2.7			G5
BL (0°-30°)	1738.6	4.8	B3/2500		
BM (30°-60°)	3092.3	8.5	B3/5000		
BH (60°-80°)	1805.0	5.0	B3/2500		G3/2500
BVH (80°-90°)	176.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



REPORT NUMBER: P956934

CATALOG NUMBER: GALN-SB9B-940-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	6667.2	6667.2	6667.2	6667.2	6667.2	6667.2	6667.2	6667.2	6667.2	6667.2
2.5°	6723.9	6700.4	6723.9	6714.1	6710.2	6702.4	6704.3	6718.0	6710.2	6719.9
5°	6678.9	6665.2	6688.7	6682.8	6708.2	6712.1	6737.5	6753.2	6762.9	6764.9
7.5°	6604.7	6591.0	6624.2	6651.6	6706.3	6721.9	6774.7	6800.1	6813.7	6837.2
10°	6333.0	6327.2	6409.3	6512.8	6641.8	6721.9	6802.0	6845.0	6866.5	6929.0
12.5°	5852.4	5860.2	5967.6	6167.0	6424.9	6682.8	6833.3	6895.8	6929.0	7007.2
15°	5393.2	5391.2	5508.4	5721.4	6082.9	6510.9	6848.9	6956.4	7013.1	7128.3
17.5°	5127.4	5119.6	5201.7	5363.8	5699.9	6247.1	6809.8	6989.6	7110.8	7255.4
20°	5078.6	5062.9	5105.9	5186.0	5424.4	5957.9	6708.2	6989.6	7188.9	7376.5
22.5°	5256.4	5231.0	5213.4	5203.6	5309.1	5719.5	6592.9	6966.2	7304.2	7550.4
25°	5614.0	5574.9	5485.0	5397.1	5365.8	5612.0	6491.3	6960.3	7476.2	7784.9
27.5°	6192.4	6143.5	5961.8	5750.7	5561.2	5666.7	6446.4	6995.5	7665.7	8033.1
30°	6909.5	6856.7	6628.1	6303.7	5963.7	5869.9	6503.0	7099.0	7908.0	8363.3
32.5°	7552.4	7493.7	7298.3	6968.1	6508.9	6221.7	6682.8	7296.4	8289.0	8822.5
35°	8123.0	8054.6	7878.7	7573.9	7177.2	6716.0	7007.2	7646.2	8830.3	9568.9
37.5°	8681.8	8601.7	8410.2	8087.8	7810.3	7374.6	7454.7	8095.6	9549.4	10475.6
40°	9307.1	9191.8	8959.3	8640.8	8371.1	8146.4	8042.8	8646.6	10280.2	11487.8
42.5°	9912.9	9803.4	9526.0	9254.3	8916.3	8851.8	8724.8	9291.5	11079.4	12599.7
45°	10565.5	10434.6	10098.5	9754.6	9541.6	9320.8	9385.3	9936.3	11863.0	13733.0
47.5°	11177.1	11030.6	10633.9	10250.9	10133.7	9715.5	9991.0	10645.6	12677.8	14882.0
50°	11507.3	11362.8	11032.5	10686.7	10594.8	10202.1	10647.6	11425.3	13531.7	16027.0
52.5°	11782.9	11626.5	11194.7	11003.2	10975.9	10731.6	11456.5	12316.3	14385.7	17039.2
55°	12076.0	11902.1	11351.0	11179.1	11304.1	11325.6	12416.0	13326.6	15288.4	18026.0
57.5°	12414.0	12193.2	11501.5	11327.6	11624.6	12021.3	13518.1	14373.9	16175.6	18940.5
60°	12732.5	12509.8	11790.7	11564.0	11970.5	12828.3	14782.3	15642.1	17179.9	19755.4
62.5°	12795.1	12611.4	12021.3	12019.3	12439.4	13770.1	16279.1	16922.0	18057.3	20560.4
65°	11712.5	11597.2	11247.5	12001.7	13111.6	15126.2	17945.9	18559.5	19173.1	21263.9
67.5°	8914.3	8930.0	8904.6	10360.3	12568.4	17074.4	20359.2	20312.3	20550.7	22053.3
70°	4076.1	4168.0	4765.9	7151.8	10069.2	17299.1	24349.3	23741.6	22280.0	23075.3
72.5°	2202.2	2272.6	2516.8	3464.5	6053.6	15380.3	27331.2	27763.0	24579.9	23763.1
75°	1616.0	1655.1	1825.1	2202.2	2542.2	11431.1	26262.3	28478.2	24867.1	22158.8
77.5°	1209.6	1227.1	1365.9	1745.0	1301.4	6026.3	20984.5	23585.3	21287.3	18205.8
80°	877.4	896.9	1000.5	1309.2	912.5	2204.2	14409.1	16554.6	14579.1	11605.1
82.5°	605.8	613.6	658.5	891.0	637.0	855.9	8175.7	9707.7	8138.6	4072.2
85°	365.4	375.2	394.7	519.8	361.5	406.4	3529.0	3650.1	2432.8	973.1
87.5°	150.5	160.2	175.9	218.9	142.6	113.3	582.3	730.8	455.3	285.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956934
 CATALOG NUMBER: GALN-SB9B-940-U-SL3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6667.2	0°	6667.2	6667.2	6667.2	6667.2	6667.2	6667.2	6667.2	6667.2	6667.2	6667.2
6686.7	2.5°	6677.0	6663.3	6626.2	6575.3	6528.5	6469.8	6444.4	6422.9	6403.4	6366.3
6739.5	5°	6718.0	6680.9	6581.2	6452.2	6305.7	6145.5	5989.1	5881.7	5789.8	5721.4
6800.1	7.5°	6780.5	6710.2	6528.5	6264.7	5928.6	5584.7	5274.0	5053.2	4887.1	4826.5
6886.0	10°	6845.0	6761.0	6444.4	5979.4	5399.0	4869.5	4457.2	4230.5	4097.6	4054.6
6987.7	12.5°	6921.2	6798.1	6313.5	5582.7	4806.9	4226.6	3867.0	3734.2	3665.8	3642.3
7112.7	15°	7032.6	6829.4	6116.1	5086.4	4242.2	3757.6	3525.1	3433.3	3398.1	3396.1
7241.7	17.5°	7116.6	6835.2	5809.4	4554.9	3808.4	3474.3	3282.8	3247.6	3271.1	3306.2
7368.7	20°	7210.4	6782.5	5406.8	4070.3	3503.6	3226.1	3146.0	3169.5	3226.1	3276.9
7536.7	22.5°	7276.9	6686.7	4920.3	3693.1	3239.8	3083.5	3079.6	3128.4	3159.7	3185.1
7734.1	25°	7335.5	6524.5	4404.4	3376.6	3022.9	2997.5	3040.5	3024.9	3003.4	3024.9
7931.5	27.5°	7378.5	6268.6	3943.3	3099.1	2870.5	2938.9	2913.5	2878.3	2876.3	2888.1
8164.0	30°	7364.8	5926.6	3564.2	2835.3	2763.0	2829.5	2768.9	2763.0	2757.2	2763.0
8513.8	32.5°	7364.8	5537.8	3273.0	2653.6	2694.6	2669.2	2663.4	2649.7	2626.2	2624.3
8988.6	35°	7405.8	5148.9	3022.9	2555.9	2638.0	2577.4	2581.3	2548.1	2499.2	2475.8
9617.8	37.5°	7489.8	4836.3	2774.7	2509.0	2538.3	2536.3	2520.7	2464.0	2378.1	2303.8
10403.3	40°	7693.1	4744.4	2604.7	2487.5	2491.4	2514.9	2473.8	2364.4	2169.0	2047.8
11200.6	42.5°	8011.6	4898.8	2567.6	2434.7	2460.1	2483.6	2403.5	2149.4	2010.7	1938.4
12036.9	45°	8416.1	5168.4	2647.7	2358.5	2385.9	2426.9	2188.5	2067.4	2004.8	2006.8
12865.4	47.5°	8928.0	5451.8	2796.2	2292.1	2278.4	2301.9	2045.9	1971.6	1885.6	1907.1
13660.7	50°	9520.1	5739.0	2936.9	2202.2	2159.2	2083.0	1954.0	1883.7	1774.3	1723.5
14428.6	52.5°	10161.0	6016.5	2993.6	2092.8	2030.2	1942.3	1891.5	1805.5	1672.7	1588.6
15153.6	55°	10768.7	6268.6	2931.1	1961.9	1901.3	1832.9	1825.1	1772.3	1629.7	1512.4
15798.4	57.5°	11343.2	6479.6	2774.7	1829.0	1770.4	1729.3	1782.1	1756.7	1576.9	1426.5
16408.1	60°	11829.8	6624.2	2548.1	1694.2	1653.1	1631.6	1711.7	1703.9	1502.7	1334.6
16955.2	62.5°	12216.7	6680.9	2298.0	1565.2	1555.4	1516.3	1614.0	1614.0	1408.9	1244.7
17435.9	65°	12519.5	6626.2	2043.9	1438.2	1457.7	1399.1	1494.8	1483.1	1309.2	1164.6
17988.9	67.5°	12787.2	6446.4	1762.5	1313.1	1358.1	1283.8	1369.8	1342.4	1199.8	1084.5
18467.6	70°	12906.4	6028.2	1442.1	1188.1	1242.8	1170.5	1244.7	1193.9	1076.7	998.5
17942.0	72.5°	11949.0	5010.2	1135.3	1057.1	1104.0	1045.4	1109.9	1051.3	943.8	908.6
15493.6	75°	9885.5	3759.6	873.5	914.5	949.7	904.7	947.7	904.7	807.0	832.4
11444.8	77.5°	7179.1	2538.3	668.3	764.0	779.7	756.2	793.3	744.5	656.6	650.7
5703.8	80°	3570.0	1487.0	523.7	603.8	597.9	582.3	625.3	601.8	527.6	558.9
1539.8	82.5°	1033.7	637.0	381.0	424.0	412.3	416.2	447.5	459.2	687.8	682.0
478.7	85°	324.4	250.1	228.6	236.4	224.7	230.6	263.8	523.7	484.6	283.3
148.5	87.5°	84.0	86.0	56.7	60.6	62.5	74.3	84.0	318.5	152.4	99.7
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>
6667.2
6348.7
5664.8
4721.0
3988.2
3648.2
3403.9
3319.9
3294.5
3198.8
3038.5
2907.6
2784.5
2649.7
2499.2
2329.2
2063.5
1938.4
2016.6
1961.9
1737.1
1586.7
1512.4
1418.6
1328.7
1238.9
1156.8
1076.7
982.9
879.3
760.1
621.4
553.0
697.6
306.8
105.5
0.0

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