

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: P944649

Luminaire Tested: **GALN-SB9C-940-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944649
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-SB9C-940-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48855 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

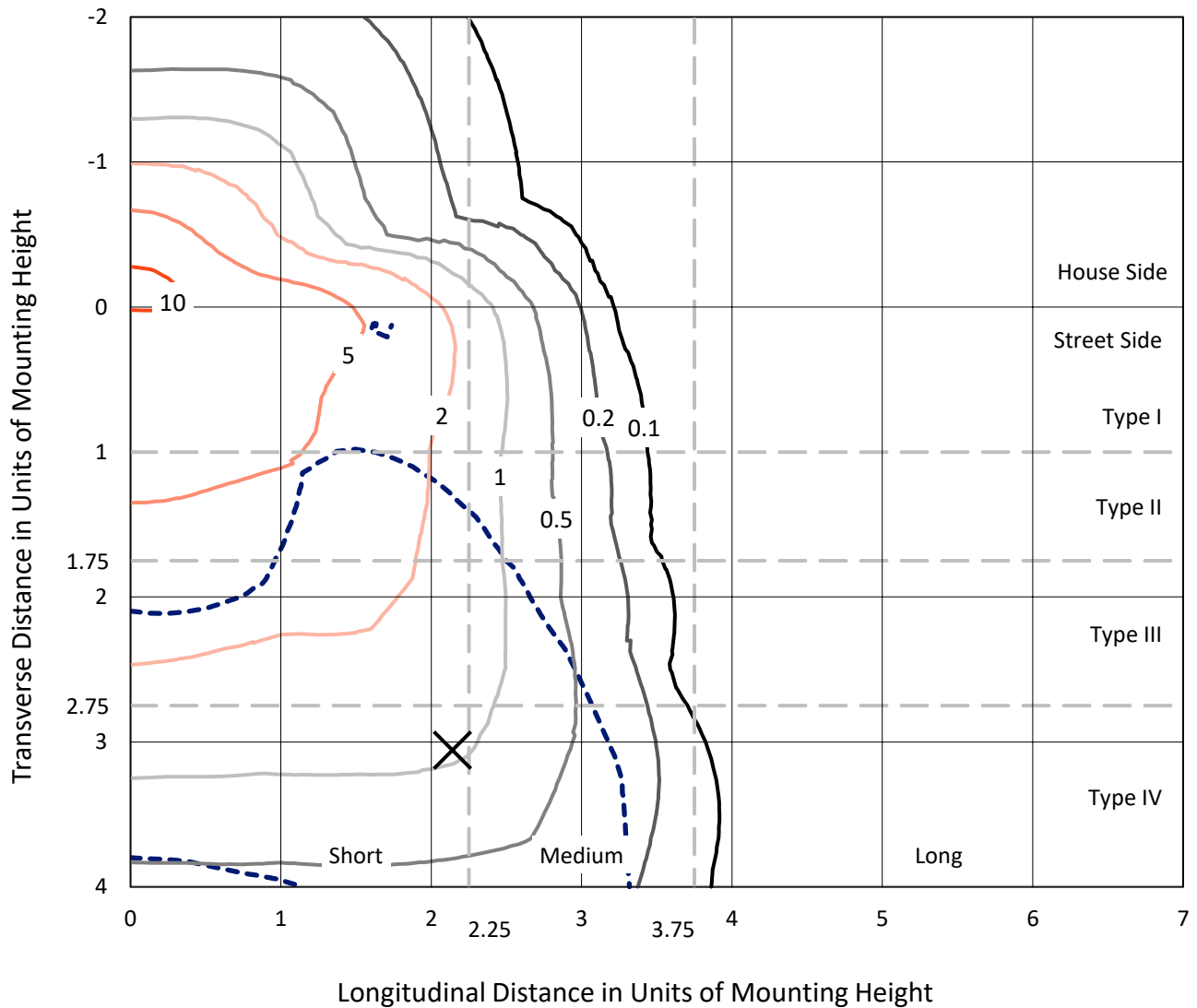
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

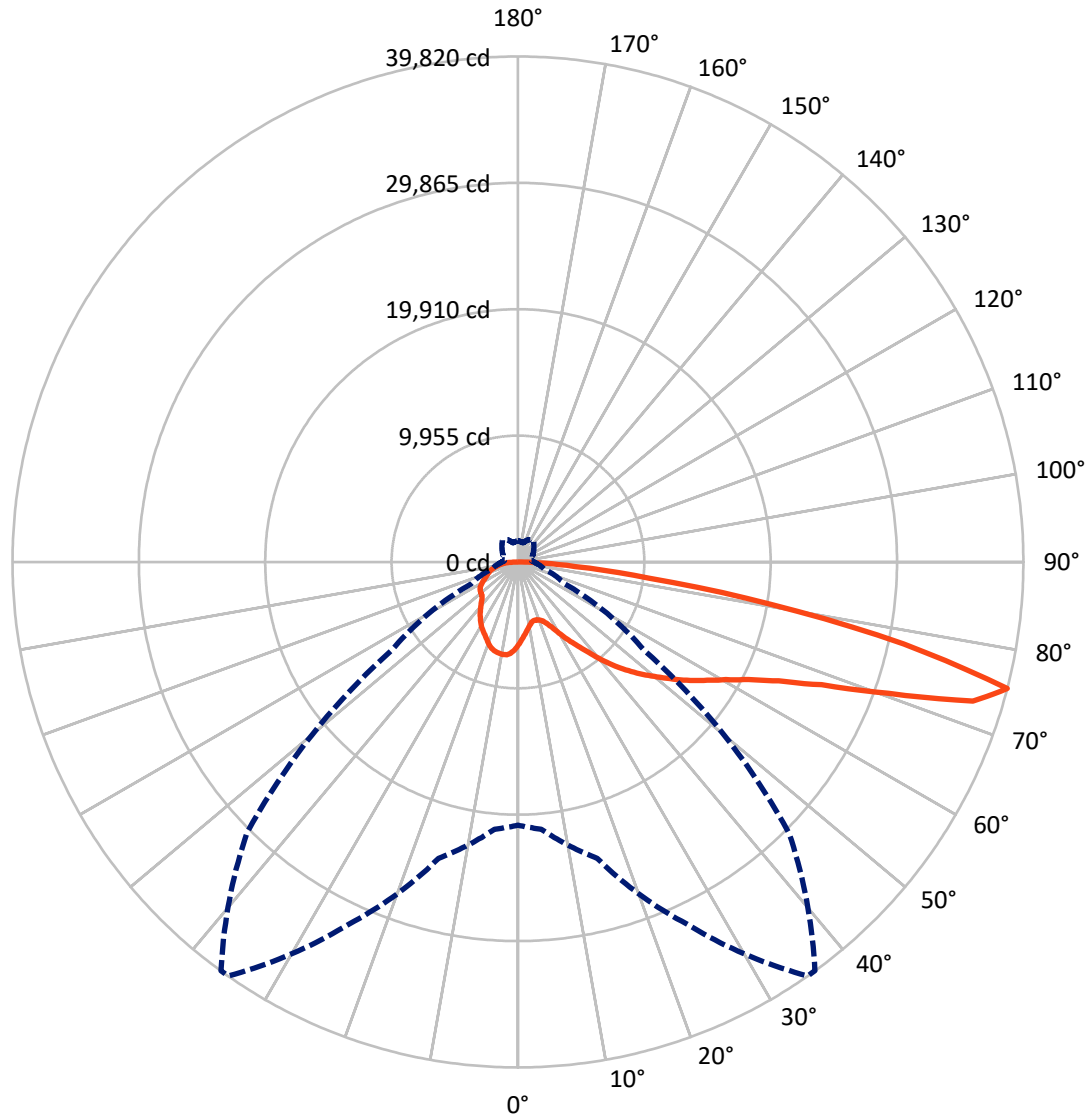
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	11626.3	0.0	11626.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	37228.7	0.0	37228.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	48855.0	0.0	48855.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.4	1.3
10°-20°	1777.9	3.6
20°-30°	2985.6	6.1
30°-40°	4640.1	9.5
40°-50°	6887.1	14.1
50°-60°	9508.1	19.5
60°-70°	11535.5	23.6
70°-80°	9533.2	19.5
80°-90°	1371.2	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°	48855.0	100.0
0°-180°	48855.0	100.0



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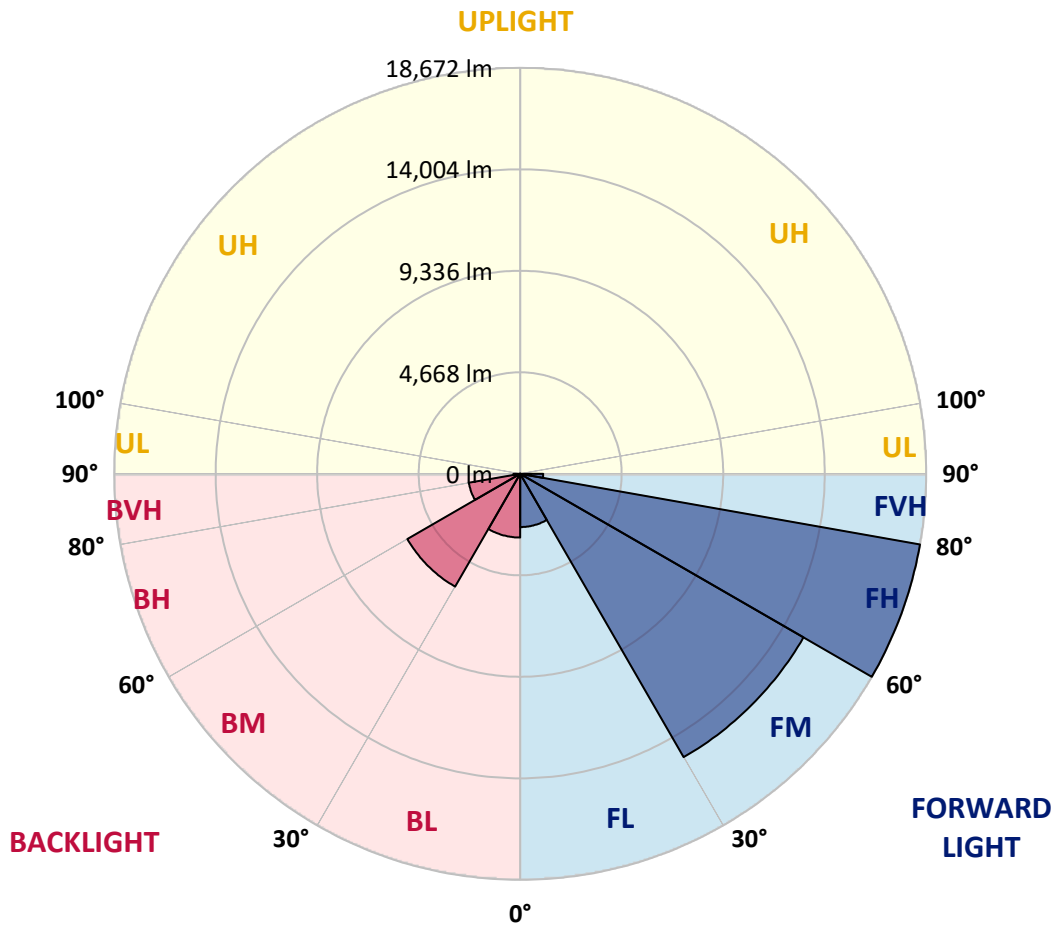
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2450.0	5.0			
FM (30°-60°)	15044.7	30.8			
FH (60°-80°)	18671.6	38.2			G5
FVH (80°-90°)	1062.4	2.2			G5
BL (0°-30°)	2930.0	6.0	B4/5000		
BM (30°-60°)	5990.6	12.3	B4/8500		
BH (60°-80°)	2397.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	308.7	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°	6510.3	6510.3	6510.3	6510.3	6510.3	6510.3	6510.3	6510.3	6510.3	6510.3
2.5°	6003.2	6040.1	6056.0	6048.1	6087.7	6082.4	6137.9	6206.5	6301.6	6394.1
5°	5541.0	5580.6	5614.9	5646.6	5723.2	5747.0	5834.1	5966.2	6140.5	6317.5
7.5°	5110.5	5144.8	5197.6	5255.7	5385.2	5408.9	5554.2	5760.2	6003.2	6262.0
10°	4759.2	4793.6	4849.0	4915.0	5076.2	5105.2	5290.1	5564.8	5881.7	6209.2
12.5°	4608.7	4619.2	4650.9	4717.0	4856.9	4875.4	5078.8	5393.1	5762.8	6169.6
15°	4600.8	4621.9	4624.5	4658.9	4775.1	4783.0	4970.5	5282.2	5688.9	6161.6
17.5°	4680.0	4695.8	4672.1	4693.2	4790.9	4804.1	4952.0	5229.3	5665.1	6196.0
20°	4891.3	4904.5	4833.2	4804.1	4875.4	4886.0	5031.3	5263.7	5688.9	6267.3
22.5°	5340.3	5348.2	5173.9	5055.0	5060.3	5065.6	5192.4	5403.6	5781.3	6396.7
25°	6040.1	6034.9	5757.6	5527.8	5395.7	5366.7	5451.2	5630.8	5937.1	6568.4
27.5°	6858.9	6819.3	6542.0	6198.6	5910.7	5868.5	5850.0	5926.6	6159.0	6795.5
30°	7783.3	7746.3	7447.8	6998.9	6600.1	6531.4	6357.1	6317.5	6489.1	7104.5
32.5°	8797.4	8773.7	8417.1	7873.1	7339.6	7260.3	6967.2	6861.5	6996.2	7572.0
35°	9647.9	9626.7	9330.9	8771.0	8118.7	8021.0	7722.5	7603.7	7672.3	8171.5
37.5°	10416.4	10405.9	10152.3	9711.2	9037.8	8918.9	8583.5	8543.9	8530.7	8961.2
40°	11129.5	11103.1	10839.0	10606.6	10107.4	9999.1	9703.3	9669.0	9568.6	9933.1
42.5°	11919.2	11850.5	11467.6	11359.3	11224.6	11134.8	10957.8	10963.1	10741.3	11029.1
45°	12563.6	12524.0	12130.5	12067.1	12212.3	12175.4	12328.6	12368.2	11937.7	12178.0
47.5°	13255.6	13218.6	12885.8	12840.9	13234.4	13245.0	13786.4	13799.6	13105.0	13371.8
50°	14108.6	14055.8	13725.7	13781.1	14222.2	14261.8	15252.2	15162.4	14180.0	14584.0
52.5°	14671.2	14702.9	14631.6	14721.4	15323.5	15360.5	16694.3	16464.5	15244.3	15780.4
55°	15085.8	15149.2	15371.1	15577.1	16485.6	16522.6	18054.4	17703.2	16126.4	16889.7
57.5°	15619.3	15529.5	15944.2	16345.6	17589.6	17687.3	19377.6	18896.9	16908.2	17845.8
60°	16385.3	16321.9	16644.1	17238.3	18825.6	18981.4	20777.4	19971.8	17481.3	18603.8
62.5°	17938.2	17779.7	17829.9	18355.5	20383.8	20589.9	22356.7	20909.4	17766.5	18899.6
65°	20259.7	19987.7	19734.1	20098.6	22578.6	22781.9	24139.5	21646.3	17660.9	18326.4
67.5°	23183.4	22914.0	22602.4	22945.7	25811.3	25972.4	26339.5	22060.9	16829.0	16118.5
70°	25594.7	25494.3	25866.7	27279.7	30974.6	30979.9	29160.2	21717.6	14549.7	11427.9
72.5°	25275.1	25214.4	27176.7	31545.0	37482.2	37342.2	31830.3	19118.8	9801.0	5155.4
75°	20735.1	21128.6	24168.5	31468.5	39819.5	39801.1	30195.5	12154.2	4054.1	2136.6
77.5°	11118.9	11742.2	15690.6	23233.6	31085.5	31553.0	21229.0	4252.1	1740.5	1368.1
80°	3626.2	4170.3	6254.1	11829.4	20199.0	20111.8	9098.5	1669.2	1191.1	969.3
82.5°	1539.7	1603.1	2794.3	5585.9	10366.2	10205.1	2897.3	958.7	837.2	662.9
85°	602.2	673.5	1233.4	2583.0	4489.8	4392.1	1045.9	475.4	536.1	433.1
87.5°	198.1	240.3	441.1	884.8	1397.1	1347.0	256.2	163.7	232.4	198.1
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°
6510.3	0°	6510.3	6510.3	6510.3	6510.3	6510.3	6510.3	6510.3	6510.3	6510.3	6510.3
6528.7	2.5°	6565.7	6608.0	6658.2	6732.1	6795.5	6848.3	6903.8	6938.1	6951.3	6990.9
6539.3	5°	6613.3	6705.7	6829.8	6951.3	7070.2	7141.5	7204.9	7236.6	7265.6	7286.7
6568.4	7.5°	6692.5	6811.3	7006.8	7165.2	7265.6	7323.7	7366.0	7355.4	7366.0	7371.3
6600.1	10°	6761.2	6927.5	7160.0	7310.5	7387.1	7389.7	7379.2	7342.2	7323.7	7326.4
6647.6	12.5°	6843.0	7027.9	7278.8	7405.6	7426.7	7368.6	7323.7	7260.3	7236.6	7226.0
6718.9	15°	6954.0	7165.2	7408.2	7455.8	7402.9	7329.0	7252.4	7149.4	7096.6	7054.3
6840.4	17.5°	7088.7	7321.1	7508.6	7474.3	7360.7	7239.2	7115.1	6959.2	6851.0	6806.1
7006.8	20°	7276.2	7484.8	7585.2	7434.6	7263.0	7078.1	6866.8	6676.6	6576.3	6531.4
7218.1	22.5°	7503.3	7704.0	7659.1	7366.0	7123.0	6827.2	6563.1	6423.1	6372.9	6341.2
7490.1	25°	7775.3	7947.0	7712.0	7265.6	6893.2	6494.4	6291.0	6246.2	6222.4	6198.6
7822.9	27.5°	8129.2	8221.7	7751.6	7117.7	6534.0	6140.5	6066.6	6074.5	6066.6	6026.9
8285.1	30°	8596.7	8578.2	7788.5	6877.4	6122.0	5820.9	5826.2	5860.6	5865.8	5839.4
8929.5	32.5°	9212.1	9024.6	7807.0	6565.7	5728.5	5541.0	5546.3	5583.2	5609.7	5564.8
9772.0	35°	9956.9	9544.9	7778.0	6174.8	5424.8	5274.2	5234.6	5245.2	5253.1	5210.8
10794.1	37.5°	10825.8	10128.5	7648.6	5741.7	5173.9	5012.8	4928.3	4856.9	4814.7	4775.1
11950.9	40°	11779.2	10765.0	7410.9	5319.1	4893.9	4735.5	4608.7	4474.0	4331.4	4278.5
13176.3	42.5°	12777.5	11420.0	7123.0	4915.0	4571.7	4442.3	4307.6	4112.2	3898.2	3789.9
14449.3	45°	13812.8	12090.9	6840.4	4516.2	4241.6	4186.1	4030.3	3795.2	3562.8	3425.5
15725.0	47.5°	14827.0	12724.7	6425.7	4114.8	3932.6	3993.3	3871.8	3655.3	3396.4	3179.9
16990.1	50°	15796.3	13319.0	5747.0	3708.1	3681.7	3935.2	3819.0	3507.4	3211.6	2934.2
18231.4	52.5°	16757.6	13799.6	4878.1	3338.3	3547.0	3919.4	3750.3	3407.0	3045.2	2754.6
19398.7	55°	17573.7	14047.9	4040.9	3021.4	3351.5	3784.7	3668.5	3288.1	2810.1	2501.1
20199.0	57.5°	18038.6	13847.2	3343.6	2709.7	3082.1	3562.8	3528.5	3034.6	2530.2	2292.5
20354.8	60°	17837.8	13033.7	2773.1	2437.7	2826.0	3322.5	3285.5	2783.7	2316.2	2091.7
19520.2	62.5°	16731.2	11483.4	2321.5	2200.0	2593.5	3076.9	3042.5	2590.9	2152.5	1935.9
17304.3	65°	14502.2	9341.5	1970.2	2001.9	2358.5	2781.1	2831.2	2429.8	2023.1	1811.8
13387.6	67.5°	11060.8	6766.4	1695.6	1830.3	2128.7	2490.5	2635.8	2313.6	1914.8	1714.1
7746.3	70°	6304.3	3842.8	1463.2	1663.9	1925.3	2221.1	2485.3	2221.1	1798.6	1632.2
2902.5	72.5°	2390.2	1764.2	1265.1	1497.5	1729.9	1994.0	2318.9	2075.9	1663.9	1539.7
1500.1	75°	1275.6	1074.9	1064.4	1302.1	1505.4	1772.2	2110.2	1933.3	1563.5	1626.9
1037.9	77.5°	868.9	760.6	890.0	1114.5	1259.8	1526.5	1888.4	1716.7	1354.9	1349.6
718.4	80°	602.2	538.8	723.7	898.0	974.6	1283.6	1648.0	1473.7	1104.0	1030.0
443.7	82.5°	361.8	351.3	541.4	670.8	689.3	990.4	1365.4	1236.0	903.2	787.0
264.1	85°	198.1	208.6	346.0	393.5	401.4	692.0	1069.6	956.1	694.6	583.7
95.1	87.5°	55.5	71.3	126.8	155.8	192.8	359.2	636.5	567.8	348.6	243.0
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>
6510.3
6988.3
7292.0
7379.2
7331.6
7220.7
7067.5
6808.7
6526.1
6346.5
6198.6
6034.9
5852.6
5585.9
5239.9
4801.5
4302.3
3803.2
3414.9
3156.1
2910.5
2723.0
2474.7
2260.8
2060.0
1901.6
1777.4
1682.4
1611.1
1518.6
1679.7
1243.9
985.1
792.3
589.0
243.0
0.0

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