

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: P944619

Luminaire Tested: **GALN-SB9C-927-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944619
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-927-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41039 lumens
Efficiency: N/A
Efficacy: 91.2 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

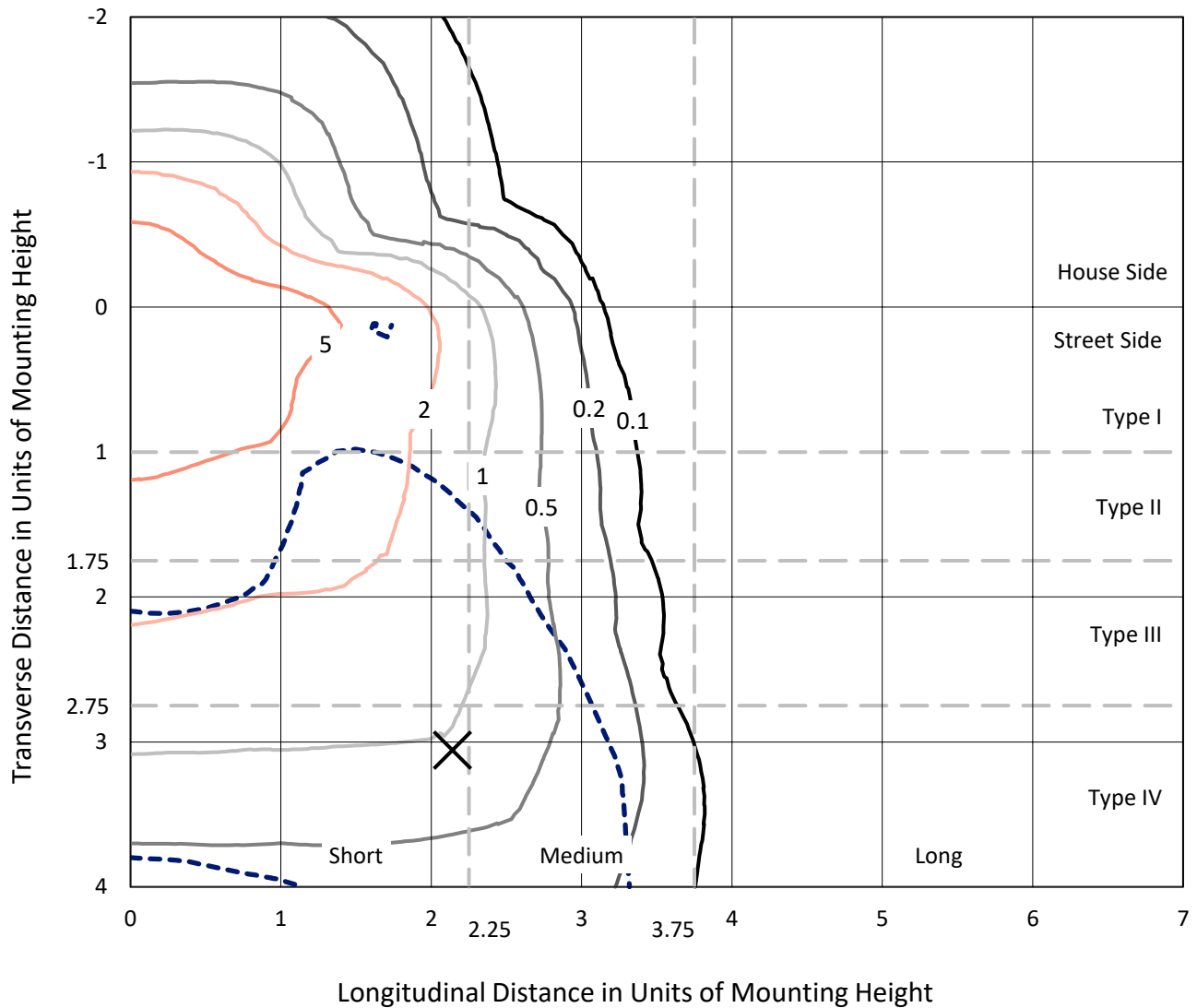
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

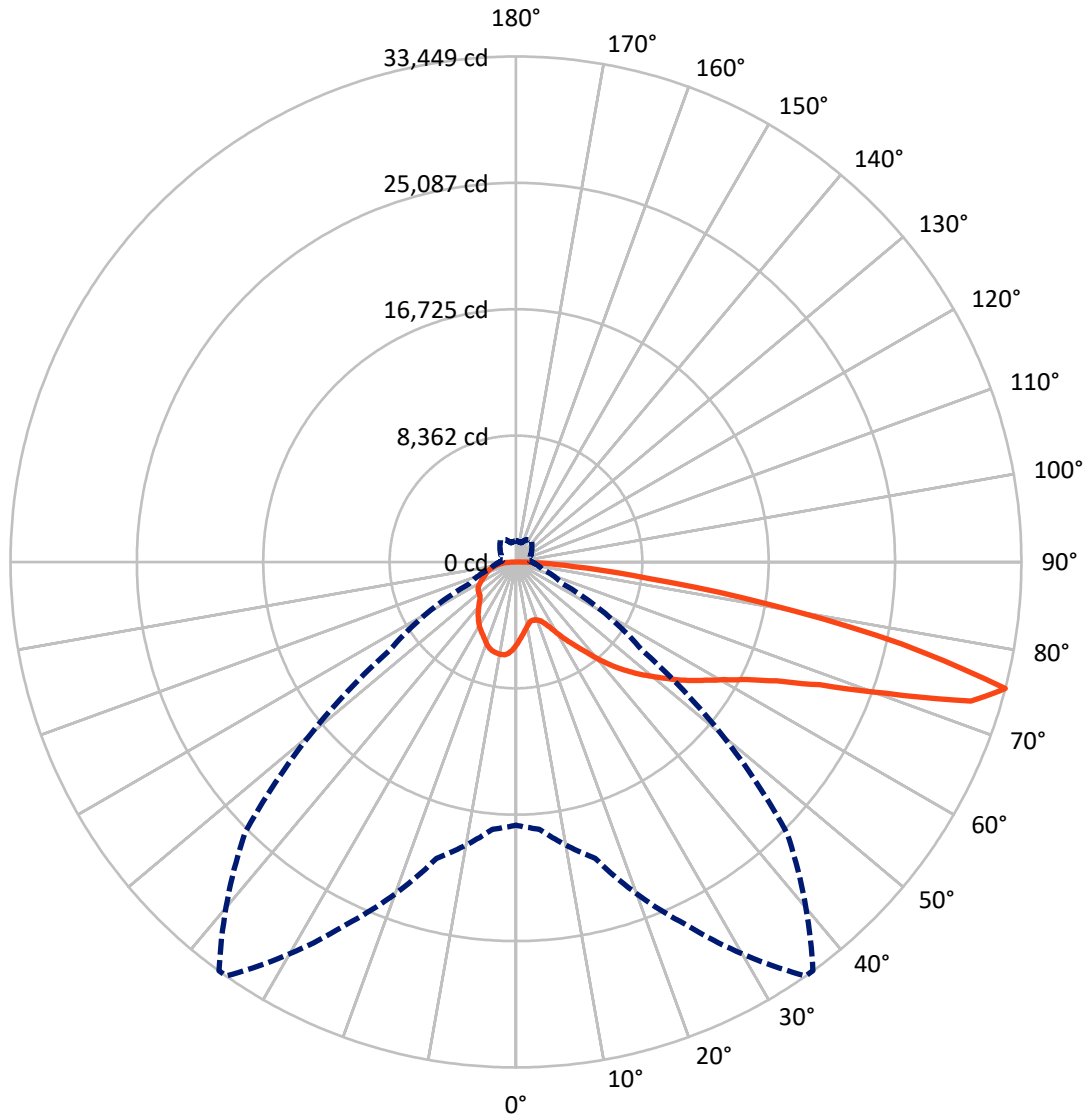
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	9766.2	0.0	9766.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	31272.7	0.0	31272.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	41039.0	0.0	41039.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.8	1.3
10°-20°	1493.5	3.6
20°-30°	2508.0	6.1
30°-40°	3897.7	9.5
40°-50°	5785.3	14.1
50°-60°	7986.9	19.5
60°-70°	9690.0	23.6
70°-80°	8008.0	19.5
80°-90°	1151.8	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°	41039.0	100.0
0°-180°	41039.0	100.0

Coefficient of Utilization



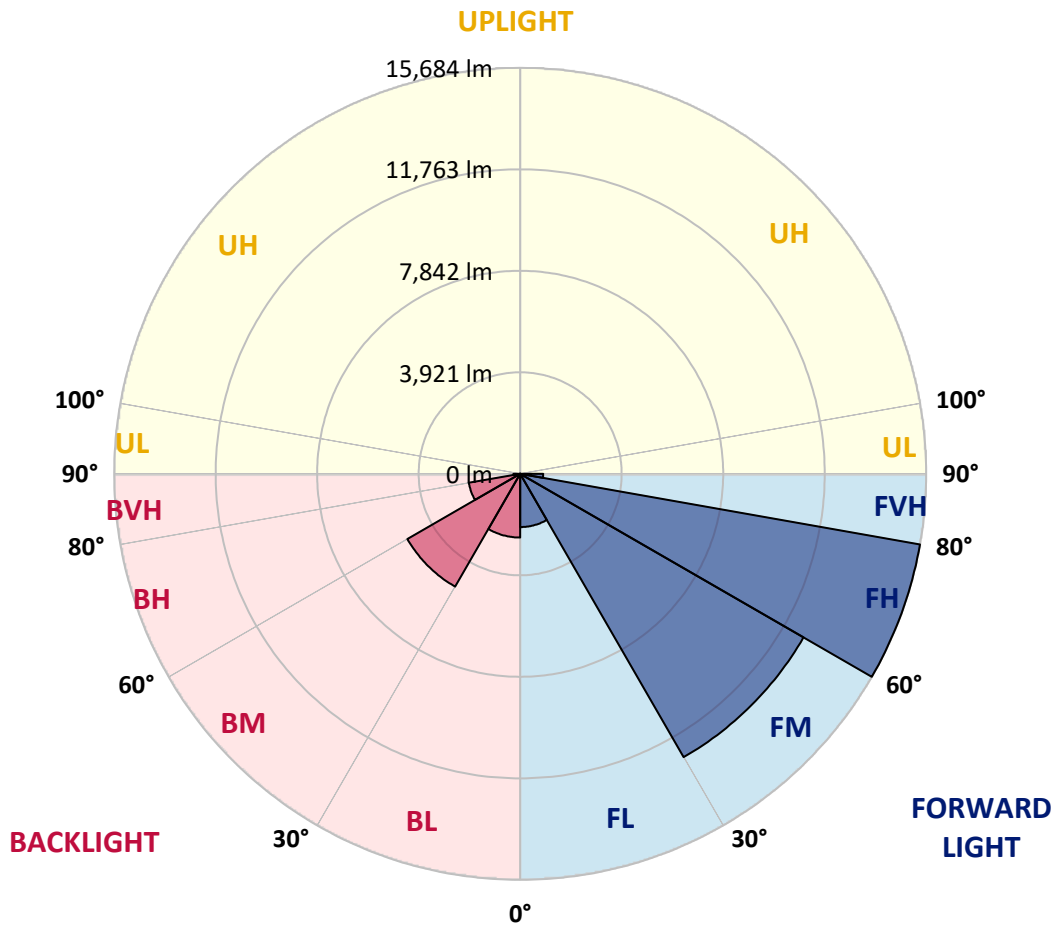
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2058.0	5.0			
FM (30°-60°)	12637.8	30.8			
FH (60°-80°)	15684.5	38.2			G5
FVH (80°-90°)	892.4	2.2			G5
BL (0°-30°)	2461.2	6.0	B3/2500		
BM (30°-60°)	5032.2	12.3	B4/8500		
BH (60°-80°)	2013.5	4.9	B3/2500		G3/2500
BVH (80°-90°)	259.4	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°	5468.7	5468.7	5468.7	5468.7	5468.7	5468.7	5468.7	5468.7	5468.7	5468.7
2.5°	5042.8	5073.8	5087.1	5080.5	5113.8	5109.3	5155.9	5213.6	5293.5	5371.1
5°	4654.5	4687.8	4716.6	4743.3	4807.6	4827.6	4900.8	5011.7	5158.1	5306.8
7.5°	4292.9	4321.7	4366.1	4414.9	4523.6	4543.6	4665.6	4838.7	5042.8	5260.2
10°	3997.8	4026.7	4073.3	4128.7	4264.1	4288.5	4443.8	4674.5	4940.7	5215.8
12.5°	3871.4	3880.2	3906.9	3962.3	4079.9	4095.4	4266.3	4530.3	4840.9	5182.5
15°	3864.7	3882.5	3884.7	3913.5	4011.1	4017.8	4175.3	4437.1	4778.8	5175.9
17.5°	3931.3	3944.6	3924.6	3942.4	4024.4	4035.5	4159.8	4392.7	4758.8	5204.7
20°	4108.8	4119.8	4059.9	4035.5	4095.4	4104.3	4226.3	4421.6	4778.8	5264.6
22.5°	4485.9	4492.6	4346.1	4246.3	4250.7	4255.2	4361.7	4539.2	4856.4	5373.3
25°	5073.8	5069.4	4836.4	4643.4	4532.5	4508.1	4579.1	4729.9	4987.3	5517.5
27.5°	5761.6	5728.3	5495.3	5206.9	4965.1	4929.6	4914.1	4978.4	5173.7	5708.3
30°	6538.1	6507.0	6256.3	5879.2	5544.2	5486.5	5340.0	5306.8	5451.0	5967.9
32.5°	7390.0	7370.0	7070.5	6613.5	6165.3	6098.8	5852.5	5763.8	5876.9	6360.6
35°	8104.4	8086.6	7838.1	7367.8	6819.8	6737.7	6487.0	6387.2	6444.9	6864.2
37.5°	8750.0	8741.1	8528.1	8157.6	7591.9	7492.0	7210.3	7177.0	7165.9	7527.5
40°	9349.0	9326.8	9104.9	8909.7	8490.4	8399.4	8151.0	8122.1	8037.8	8344.0
42.5°	10012.3	9954.6	9632.9	9542.0	9428.8	9353.4	9204.8	9209.2	9022.8	9264.7
45°	10553.6	10520.4	10189.8	10136.6	10258.6	10227.5	10356.2	10389.5	10027.8	10229.7
47.5°	11134.9	11103.8	10824.3	10786.6	11117.2	11126.0	11580.8	11591.9	11008.4	11232.5
50°	11851.5	11807.1	11529.8	11576.4	11946.9	11980.2	12812.1	12736.7	11911.4	12250.8
52.5°	12324.0	12350.7	12290.8	12366.2	12872.0	12903.1	14023.5	13830.4	12805.5	13255.8
55°	12672.4	12725.6	12912.0	13085.0	13848.2	13879.2	15166.0	14870.9	13546.5	14187.6
57.5°	13120.5	13045.1	13393.4	13730.6	14775.5	14857.6	16277.5	15873.7	14203.2	14990.7
60°	13763.9	13710.6	13981.3	14480.5	15813.8	15944.7	17453.3	16776.7	14684.6	15627.5
62.5°	15068.4	14935.3	14977.4	15418.9	17122.8	17295.8	18780.0	17564.3	14924.2	15875.9
65°	17018.5	16790.0	16577.0	16883.2	18966.4	19137.2	20277.5	18183.2	14835.4	15394.5
67.5°	19474.4	19248.1	18986.3	19274.8	21681.9	21817.2	22125.6	18531.5	14136.6	13539.8
70°	21500.0	21415.7	21728.5	22915.4	26019.1	26023.6	24495.0	18243.1	12222.0	9599.7
72.5°	21231.5	21180.5	22828.9	26498.4	31485.7	31368.1	26738.0	16060.1	8233.0	4330.6
75°	17417.8	17748.4	20301.9	26434.0	33449.1	33433.5	25364.7	10209.8	3405.5	1794.8
77.5°	9340.1	9863.7	13180.4	19516.6	26112.3	26505.0	17832.7	3571.9	1462.0	1149.2
80°	3046.1	3503.1	5253.5	9936.9	16967.5	16894.3	7642.9	1402.1	1000.6	814.2
82.5°	1293.4	1346.7	2347.2	4692.2	8707.8	8572.5	2433.7	805.3	703.3	556.9
85°	505.8	565.7	1036.1	2169.7	3771.5	3689.4	878.5	399.3	450.4	363.8
87.5°	166.4	201.9	370.5	743.2	1173.6	1131.5	215.2	137.6	195.2	166.4
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°
5468.7	0°	5468.7	5468.7	5468.7	5468.7	5468.7	5468.7	5468.7	5468.7	5468.7	5468.7
5484.3	2.5°	5515.3	5550.8	5593.0	5655.1	5708.3	5752.7	5799.3	5828.1	5839.2	5872.5
5493.1	5°	5555.2	5632.9	5737.2	5839.2	5939.1	5999.0	6052.2	6078.8	6103.2	6121.0
5517.5	7.5°	5621.8	5721.6	5885.8	6018.9	6103.2	6152.0	6187.5	6178.7	6187.5	6192.0
5544.2	10°	5679.5	5819.3	6014.5	6140.9	6205.3	6207.5	6198.6	6167.6	6152.0	6154.3
5584.1	12.5°	5748.3	5903.6	6114.3	6220.8	6238.6	6189.8	6152.0	6098.8	6078.8	6070.0
5644.0	15°	5841.4	6018.9	6223.0	6263.0	6218.6	6156.5	6092.1	6005.6	5961.2	5925.7
5746.0	17.5°	5954.6	6149.8	6307.3	6278.5	6183.1	6081.0	5976.8	5845.9	5754.9	5717.2
5885.8	20°	6112.1	6287.4	6371.7	6245.2	6101.0	5945.7	5768.2	5608.5	5524.2	5486.5
6063.3	22.5°	6302.9	6471.5	6433.8	6187.5	5983.4	5735.0	5513.1	5395.5	5353.4	5326.7
6291.8	25°	6531.4	6675.6	6478.2	6103.2	5790.4	5455.4	5284.6	5246.9	5226.9	5206.9
6571.3	27.5°	6828.7	6906.3	6511.4	5979.0	5488.7	5158.1	5096.0	5102.7	5096.0	5062.7
6959.6	30°	7221.4	7205.8	6542.5	5777.1	5142.6	4889.7	4894.1	4923.0	4927.4	4905.2
7500.9	32.5°	7738.3	7580.8	6558.0	5515.3	4812.0	4654.5	4659.0	4690.0	4712.2	4674.5
8208.6	35°	8363.9	8017.8	6533.6	5187.0	4556.9	4430.4	4397.2	4406.0	4412.7	4377.2
9067.2	37.5°	9093.8	8508.1	6424.9	4823.1	4346.1	4210.8	4139.8	4079.9	4044.4	4011.1
10038.9	40°	9894.7	9042.8	6225.2	4468.2	4111.0	3977.9	3871.4	3758.2	3638.4	3594.1
11068.3	42.5°	10733.3	9593.0	5983.4	4128.7	3840.3	3731.6	3618.5	3454.3	3274.6	3183.6
12137.7	45°	11603.0	10156.5	5746.0	3793.7	3563.0	3516.4	3385.5	3188.1	2992.8	2877.5
13209.2	47.5°	12454.9	10689.0	5397.7	3456.5	3303.4	3354.4	3252.4	3070.5	2853.1	2671.1
14271.9	50°	13269.1	11188.1	4827.6	3114.8	3092.7	3305.6	3208.0	2946.2	2697.8	2464.8
15314.6	52.5°	14076.7	11591.9	4097.7	2804.2	2979.5	3292.3	3150.3	2861.9	2558.0	2313.9
16295.2	55°	14762.2	11800.5	3394.4	2538.0	2815.3	3179.2	3081.6	2762.1	2360.5	2101.0
16967.5	57.5°	15152.7	11631.9	2808.7	2276.2	2589.0	2992.8	2964.0	2549.1	2125.4	1925.7
17098.4	60°	14984.1	10948.5	2329.5	2047.7	2373.8	2790.9	2759.9	2338.4	1945.7	1757.1
16397.3	62.5°	14054.5	9646.3	1950.1	1848.1	2178.6	2584.6	2555.8	2176.4	1808.1	1626.2
14535.9	65°	12182.1	7847.0	1655.0	1681.7	1981.2	2336.1	2378.3	2041.1	1699.4	1521.9
11245.8	67.5°	9291.3	5683.9	1424.3	1537.5	1788.2	2092.1	2214.1	1943.4	1608.4	1439.8
6507.0	70°	5295.7	3228.0	1229.1	1397.7	1617.3	1865.8	2087.7	1865.8	1510.8	1371.1
2438.2	72.5°	2007.8	1482.0	1062.7	1257.9	1453.1	1675.0	1947.9	1743.8	1397.7	1293.4
1260.1	75°	1071.6	902.9	894.1	1093.7	1264.6	1488.6	1772.6	1624.0	1313.4	1366.6
871.9	77.5°	729.9	638.9	747.7	936.2	1058.2	1282.3	1586.3	1442.1	1138.1	1133.7
603.4	80°	505.8	452.6	607.9	754.3	818.6	1078.2	1384.4	1238.0	927.4	865.2
372.7	82.5°	303.9	295.1	454.8	563.5	579.0	832.0	1147.0	1038.3	758.7	661.1
221.9	85°	166.4	175.3	290.6	330.6	337.2	581.3	898.5	803.1	583.5	490.3
79.9	87.5°	46.6	59.9	106.5	130.9	162.0	301.7	534.7	477.0	292.8	204.1
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>
5468.7
5870.3
6125.4
6198.6
6158.7
6065.5
5936.8
5719.4
5482.0
5331.2
5206.9
5069.4
4916.3
4692.2
4401.6
4033.3
3614.0
3194.7
2868.6
2651.2
2444.8
2287.3
2078.8
1899.1
1730.5
1597.4
1493.1
1413.2
1353.3
1275.7
<i>1411.0</i>
1044.9
827.5
665.6
494.7
204.1
0.0

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