

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: P943559

Luminaire Tested: **GALN-SB8A-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943559
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-SB8A-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32214 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

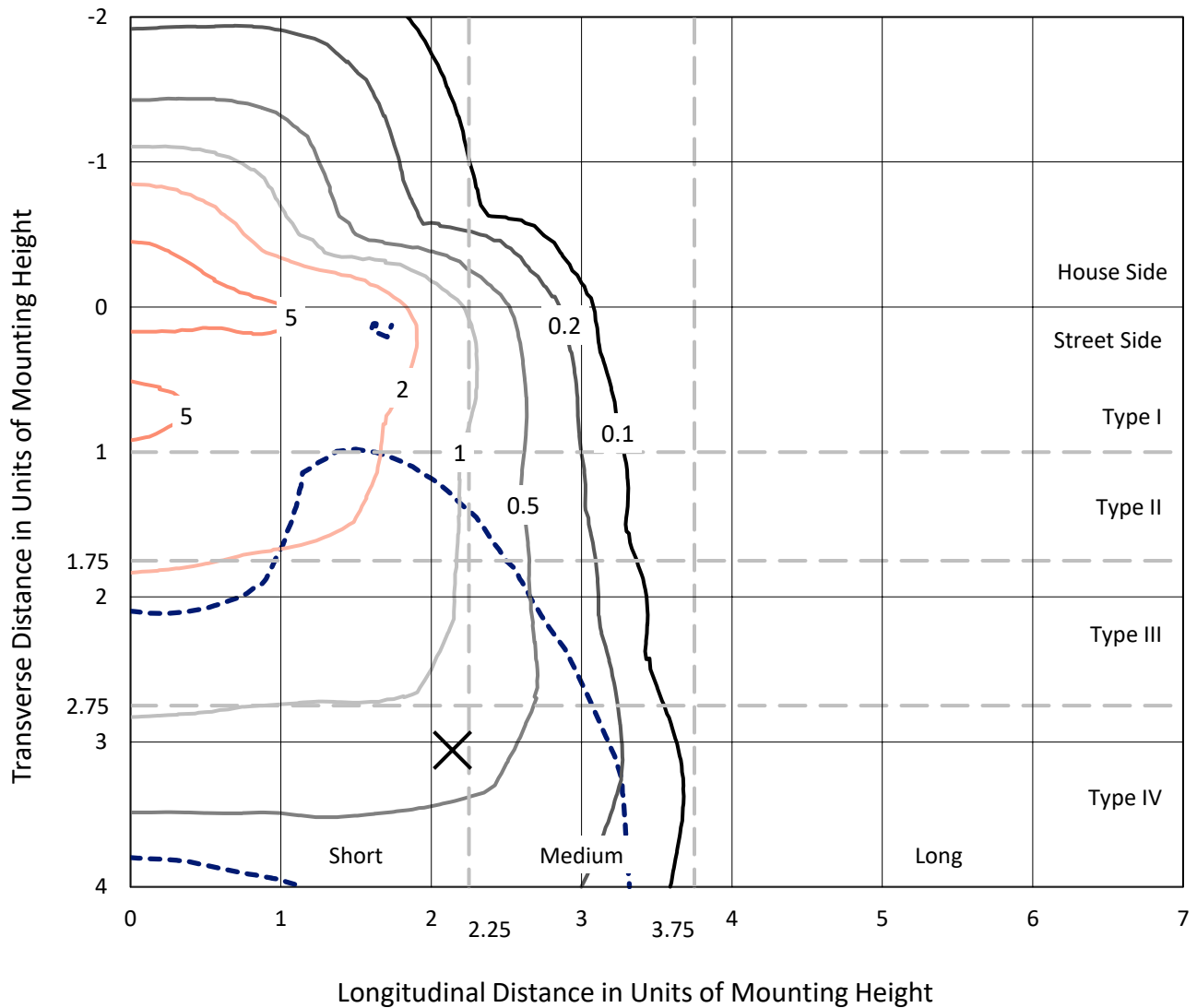
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

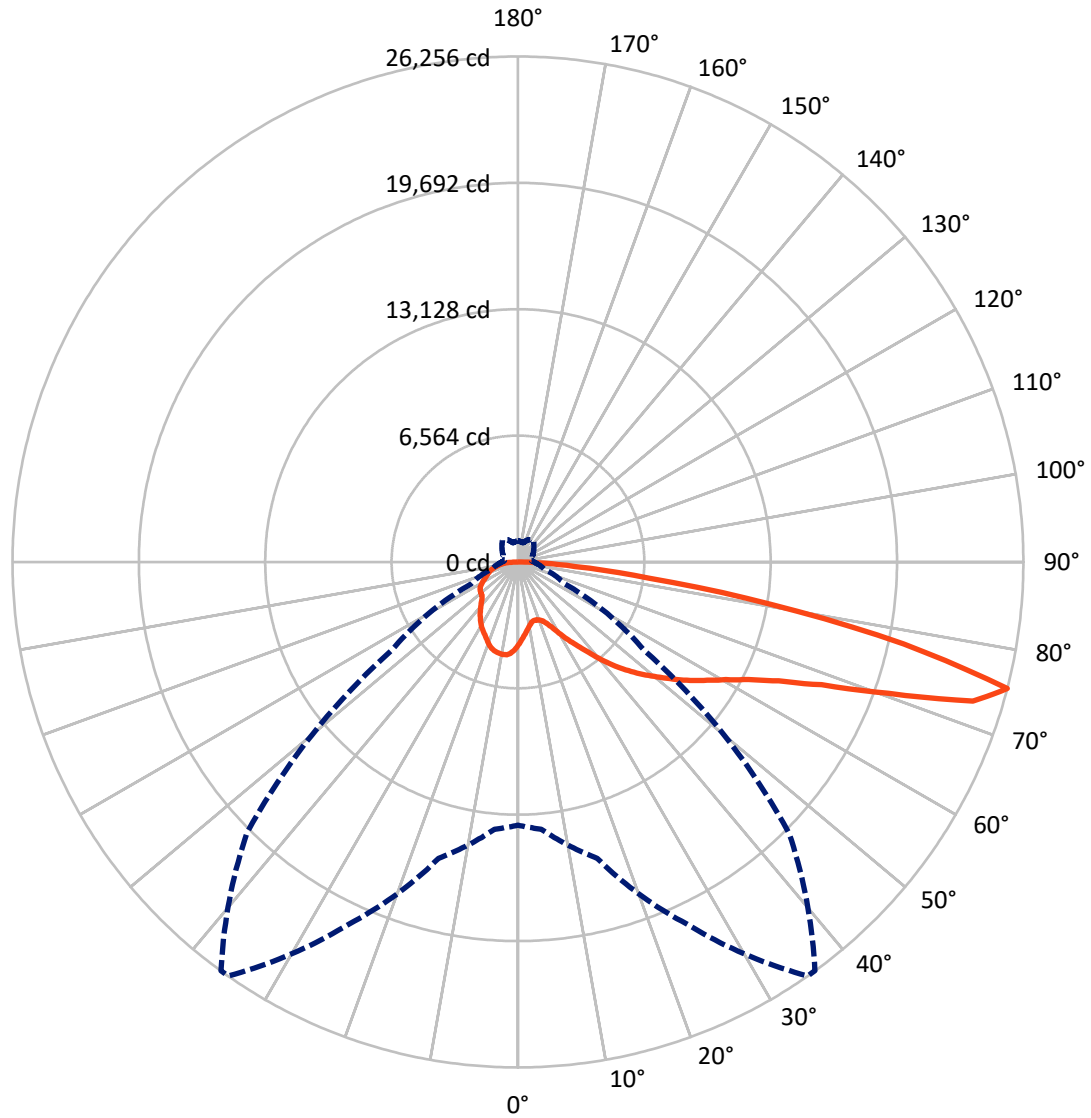
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	7666.1	0.0	7666.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	24547.9	0.0	24547.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	32214.0	0.0	32214.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.4	1.3
10°-20°	1172.3	3.6
20°-30°	1968.7	6.1
30°-40°	3059.6	9.5
40°-50°	4541.2	14.1
50°-60°	6269.4	19.5
60°-70°	7606.2	23.6
70°-80°	6286.0	19.5
80°-90°	904.1	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°	32214.0	100.0
0°-180°	32214.0	100.0

Coefficient of Utilization



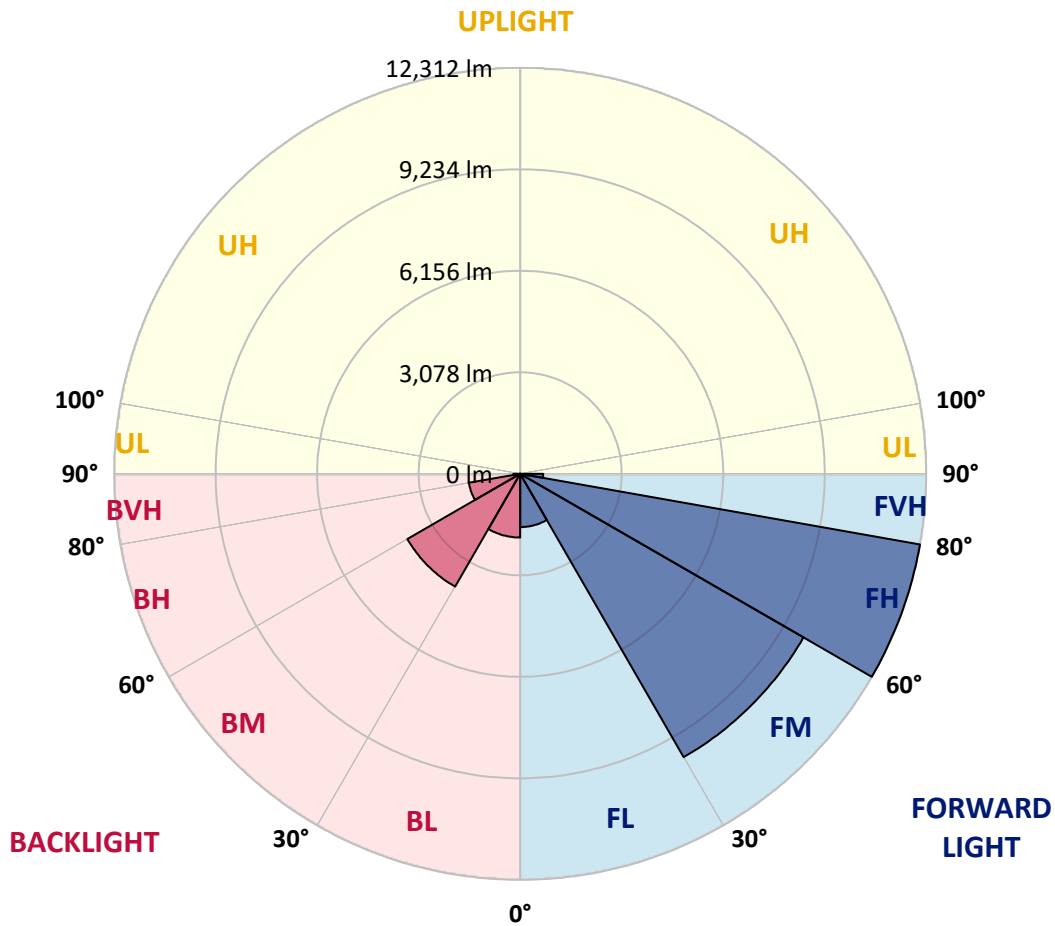
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1615.5	5.0			
FM (30°-60°)	9920.2	30.8			
FH (60°-80°)	12311.7	38.2			G5
FVH (80°-90°)	700.5	2.2			G4/750
BL (0°-30°)	1932.0	6.0	B3/2500		
BM (30°-60°)	3950.1	12.3	B3/5000		
BH (60°-80°)	1580.5	4.9	B3/2500		G3/2500
BVH (80°-90°)	203.6	0.6			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	4292.7	4292.7	4292.7	4292.7	4292.7	4292.7	4292.7	4292.7	4292.7	4292.7
2.5°	3958.4	3982.8	3993.2	3988.0	4014.1	4010.6	4047.2	4092.5	4155.2	4216.1
5°	3653.6	3679.7	3702.4	3723.3	3773.8	3789.4	3846.9	3934.0	4048.9	4165.6
7.5°	3369.8	3392.4	3427.2	3465.5	3550.9	3566.5	3662.3	3798.2	3958.4	4129.0
10°	3138.1	3160.8	3197.3	3240.9	3347.1	3366.3	3488.2	3669.3	3878.3	4094.2
12.5°	3038.9	3045.8	3066.7	3110.3	3202.6	3214.8	3348.9	3556.1	3799.9	4068.1
15°	3033.6	3047.6	3049.3	3072.0	3148.6	3153.8	3277.5	3482.9	3751.1	4062.9
17.5°	3085.9	3096.3	3080.7	3094.6	3159.0	3167.7	3265.3	3448.1	3735.5	4085.5
20°	3225.2	3233.9	3186.9	3167.7	3214.8	3221.7	3317.5	3470.8	3751.1	4132.5
22.5°	3521.3	3526.5	3411.5	3333.2	3336.7	3340.1	3423.7	3563.1	3812.1	4217.9
25°	3982.8	3979.3	3796.4	3644.9	3557.8	3538.7	3594.4	3712.8	3914.8	4331.0
27.5°	4522.6	4496.5	4313.6	4087.2	3897.4	3869.6	3857.4	3907.9	4061.1	4480.8
30°	5132.1	5107.7	4911.0	4614.9	4351.9	4306.7	4191.7	4165.6	4278.8	4684.6
32.5°	5800.8	5785.2	5550.1	5191.3	4839.6	4787.3	4594.0	4524.3	4613.2	4992.8
35°	6361.6	6347.7	6152.6	5783.4	5353.3	5288.9	5092.1	5013.7	5059.0	5388.1
37.5°	6868.4	6861.4	6694.2	6403.4	5959.3	5881.0	5659.8	5633.7	5625.0	5908.8
40°	7338.6	7321.2	7147.0	6993.8	6664.6	6593.2	6398.2	6375.5	6309.4	6549.7
42.5°	7859.3	7814.0	7561.5	7490.1	7401.3	7342.1	7225.4	7228.9	7082.6	7272.4
45°	8284.2	8258.1	7998.6	7956.8	8052.6	8028.2	8129.2	8155.3	7871.5	8029.9
47.5°	8740.5	8716.1	8496.7	8467.0	8726.5	8733.5	9090.5	9099.2	8641.2	8817.1
50°	9303.0	9268.1	9050.4	9087.0	9377.8	9404.0	10057.0	9997.8	9350.0	9616.4
52.5°	9673.9	9694.8	9647.8	9707.0	10104.0	10128.4	11007.9	10856.3	10051.8	10405.3
55°	9947.3	9989.1	10135.4	10271.2	10870.3	10894.7	11904.7	11673.1	10633.4	11136.7
57.5°	10299.1	10239.9	10513.3	10778.0	11598.2	11662.7	12777.2	12460.2	11148.9	11767.1
60°	10804.1	10762.3	10974.8	11366.6	12413.2	12516.0	13700.2	13169.0	11526.8	12266.9
62.5°	11828.1	11723.6	11756.7	12103.2	13440.7	13576.5	14741.6	13787.2	11714.9	12462.0
65°	13358.8	13179.5	13012.3	13252.6	14887.9	15022.0	15917.1	14273.1	11645.2	12084.1
67.5°	15286.7	15109.0	14903.5	15129.9	17019.4	17125.7	17367.7	14546.5	11096.7	10628.2
70°	16876.6	16810.4	17056.0	17987.7	20424.0	20427.5	19227.6	14320.1	9593.8	7535.4
72.5°	16665.9	16625.9	17919.8	20800.2	24715.0	24622.7	20988.2	12606.5	6462.6	3399.4
75°	13672.3	13931.8	15936.2	20749.7	26256.2	26244.0	19910.3	8014.3	2673.2	1408.9
77.5°	7331.6	7742.6	10346.1	15319.7	20497.1	20805.4	13998.0	2803.8	1147.6	902.1
80°	2391.0	2749.8	4123.8	7800.1	13318.8	13261.3	5999.4	1100.6	785.4	639.1
82.5°	1015.3	1057.1	1842.5	3683.2	6835.3	6729.1	1910.4	632.2	552.0	437.1
85°	397.1	444.1	813.3	1703.2	2960.5	2896.1	689.6	313.5	353.5	285.6
87.5°	130.6	158.5	290.8	583.4	921.2	888.2	168.9	108.0	153.2	130.6
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°
4292.7	0°	4292.7	4292.7	4292.7	4292.7	4292.7	4292.7	4292.7	4292.7	4292.7	4292.7
4304.9	2.5°	4329.3	4357.2	4390.3	4439.0	4480.8	4515.6	4552.2	4574.9	4583.6	4609.7
4311.9	5°	4360.7	4421.6	4503.5	4583.6	4661.9	4708.9	4750.7	4771.6	4790.8	4804.7
4331.0	7.5°	4412.9	4491.3	4620.1	4724.6	4790.8	4829.1	4857.0	4850.0	4857.0	4860.5
4351.9	10°	4458.2	4567.9	4721.1	4820.4	4870.9	4872.6	4865.7	4841.3	4829.1	4830.8
4383.3	12.5°	4512.2	4634.1	4799.5	4883.1	4897.0	4858.7	4829.1	4787.3	4771.6	4764.7
4430.3	15°	4585.3	4724.6	4884.8	4916.2	4881.4	4832.6	4782.1	4714.2	4679.3	4651.5
4510.4	17.5°	4674.1	4827.4	4951.0	4928.4	4853.5	4773.4	4691.5	4588.8	4517.4	4487.8
4620.1	20°	4797.8	4935.3	5001.5	4902.2	4789.1	4667.2	4527.8	4402.4	4336.3	4306.7
4759.4	22.5°	4947.5	5079.9	5050.3	4857.0	4696.8	4501.7	4327.6	4235.3	4202.2	4181.3
4938.8	25°	5126.9	5240.1	5085.1	4790.8	4545.2	4282.3	4148.2	4118.6	4102.9	4087.2
5158.2	27.5°	5360.3	5421.2	5111.2	4693.3	4308.4	4048.9	4000.2	4005.4	4000.2	3974.0
5463.0	30°	5668.5	5656.3	5135.6	4534.8	4036.7	3838.2	3841.7	3864.3	3867.8	3850.4
5887.9	32.5°	6074.3	5950.6	5147.8	4329.3	3777.3	3653.6	3657.1	3681.5	3698.9	3669.3
6443.5	35°	6565.4	6293.7	5128.6	4071.6	3577.0	3477.7	3451.6	3458.6	3463.8	3435.9
7117.4	37.5°	7138.3	6678.6	5043.3	3786.0	3411.5	3305.3	3249.6	3202.6	3174.7	3148.6
7880.2	40°	7767.0	7098.2	4886.6	3507.3	3227.0	3122.5	3038.9	2950.1	2856.0	2821.2
8688.2	42.5°	8425.3	7530.1	4696.8	3240.9	3014.5	2929.2	2840.3	2711.5	2570.4	2499.0
9527.6	45°	9107.9	7972.5	4510.4	2977.9	2796.8	2760.2	2657.5	2502.5	2349.2	2258.7
10368.7	47.5°	9776.6	8390.4	4237.0	2713.2	2593.1	2633.1	2553.0	2410.2	2239.5	2096.7
11202.9	50°	10415.8	8782.3	3789.4	2445.0	2427.6	2594.8	2518.2	2312.7	2117.6	1934.8
12021.4	52.5°	11049.7	9099.2	3216.5	2201.2	2338.8	2584.3	2472.9	2246.5	2007.9	1816.4
12791.1	55°	11587.8	9262.9	2664.5	1992.2	2209.9	2495.5	2418.9	2168.1	1852.9	1649.2
13318.8	57.5°	11894.3	9130.5	2204.7	1786.8	2032.3	2349.2	2326.6	2001.0	1668.3	1511.6
13421.5	60°	11761.9	8594.2	1828.5	1607.4	1863.4	2190.8	2166.4	1835.5	1527.3	1379.2
12871.2	62.5°	11032.2	7571.9	1530.8	1450.6	1710.1	2028.8	2006.2	1708.4	1419.3	1276.5
11410.1	65°	9562.4	6159.6	1299.1	1320.0	1555.1	1833.8	1866.9	1602.2	1334.0	1194.7
8827.5	67.5°	7293.3	4461.7	1118.0	1206.8	1403.6	1642.2	1738.0	1525.5	1262.6	1130.2
5107.7	70°	4156.9	2533.8	964.8	1097.1	1269.5	1464.6	1638.7	1464.6	1185.9	1076.2
1913.9	72.5°	1576.0	1163.3	834.2	987.4	1140.7	1314.8	1529.0	1368.8	1097.1	1015.3
989.2	75°	841.1	708.8	701.8	858.5	992.6	1168.5	1391.4	1274.8	1031.0	1072.7
684.4	77.5°	572.9	501.5	586.9	734.9	830.7	1006.6	1245.2	1132.0	893.4	889.9
473.7	80°	397.1	355.3	477.2	592.1	642.6	846.4	1086.7	971.7	727.9	679.2
292.6	82.5°	238.6	231.6	357.0	442.3	454.5	653.1	900.3	815.0	595.6	519.0
174.1	85°	130.6	137.6	228.1	259.5	264.7	456.3	705.3	630.4	458.0	384.9
62.7	87.5°	36.6	47.0	83.6	102.7	127.1	236.8	419.7	374.4	229.9	160.2
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>
4292.7
4607.9
4808.2
4865.7
4834.3
4761.2
4660.2
4489.5
4303.2
4184.8
4087.2
3979.3
3859.1
3683.2
3455.1
3166.0
2836.9
2507.7
2251.7
2081.1
1919.1
1795.5
1631.8
1490.7
1358.3
1253.9
1172.0
1109.3
1062.3
1001.3
<i>1107.6</i>
820.2
649.6
522.4
388.3
160.2
0.0

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