

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: P944442

Luminaire Tested: **GALN-SB9B-927-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944442  
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-SB9B-927-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

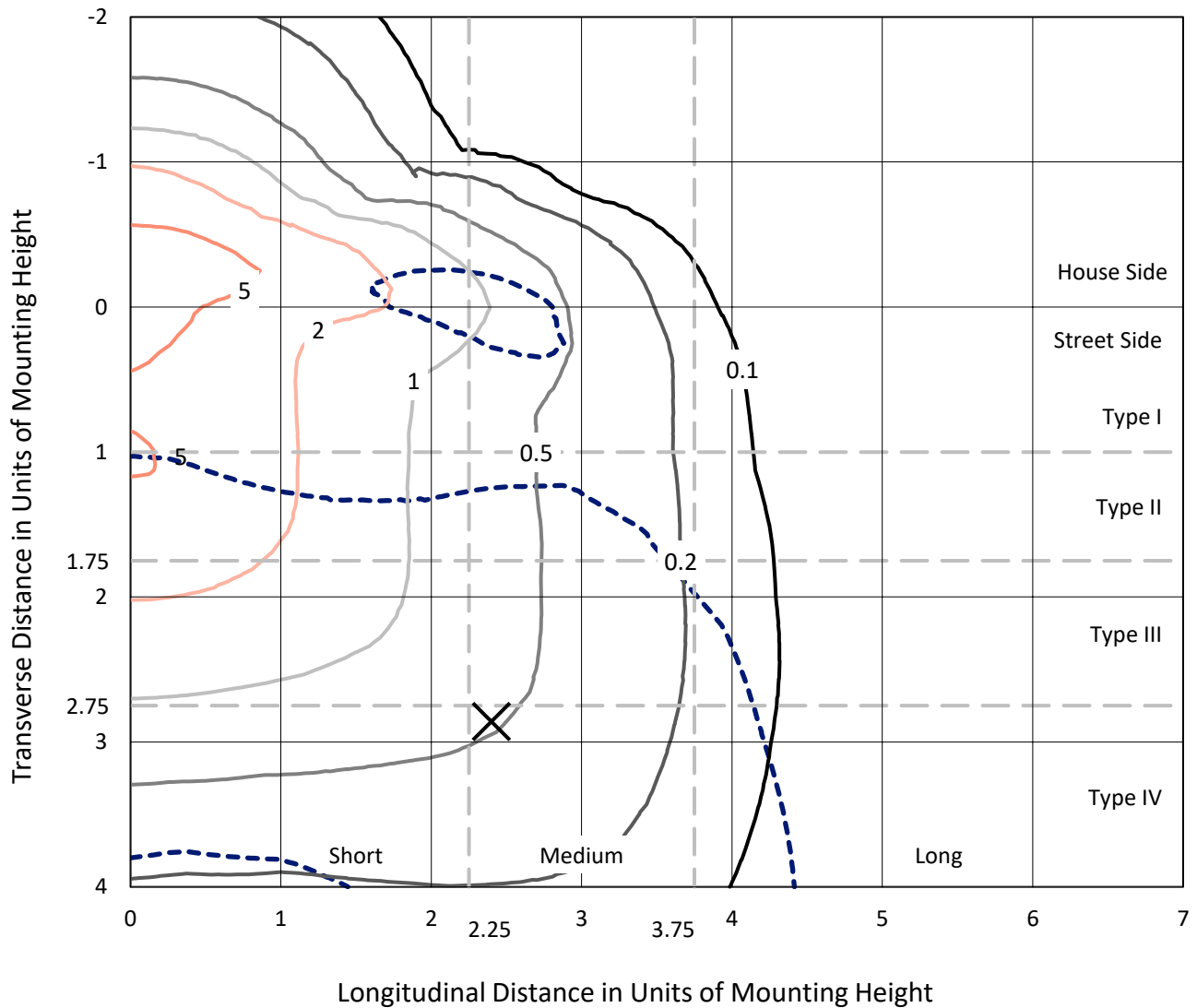
Lumens per Lamp: N/A  
Luminaire Lumens: 30947 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

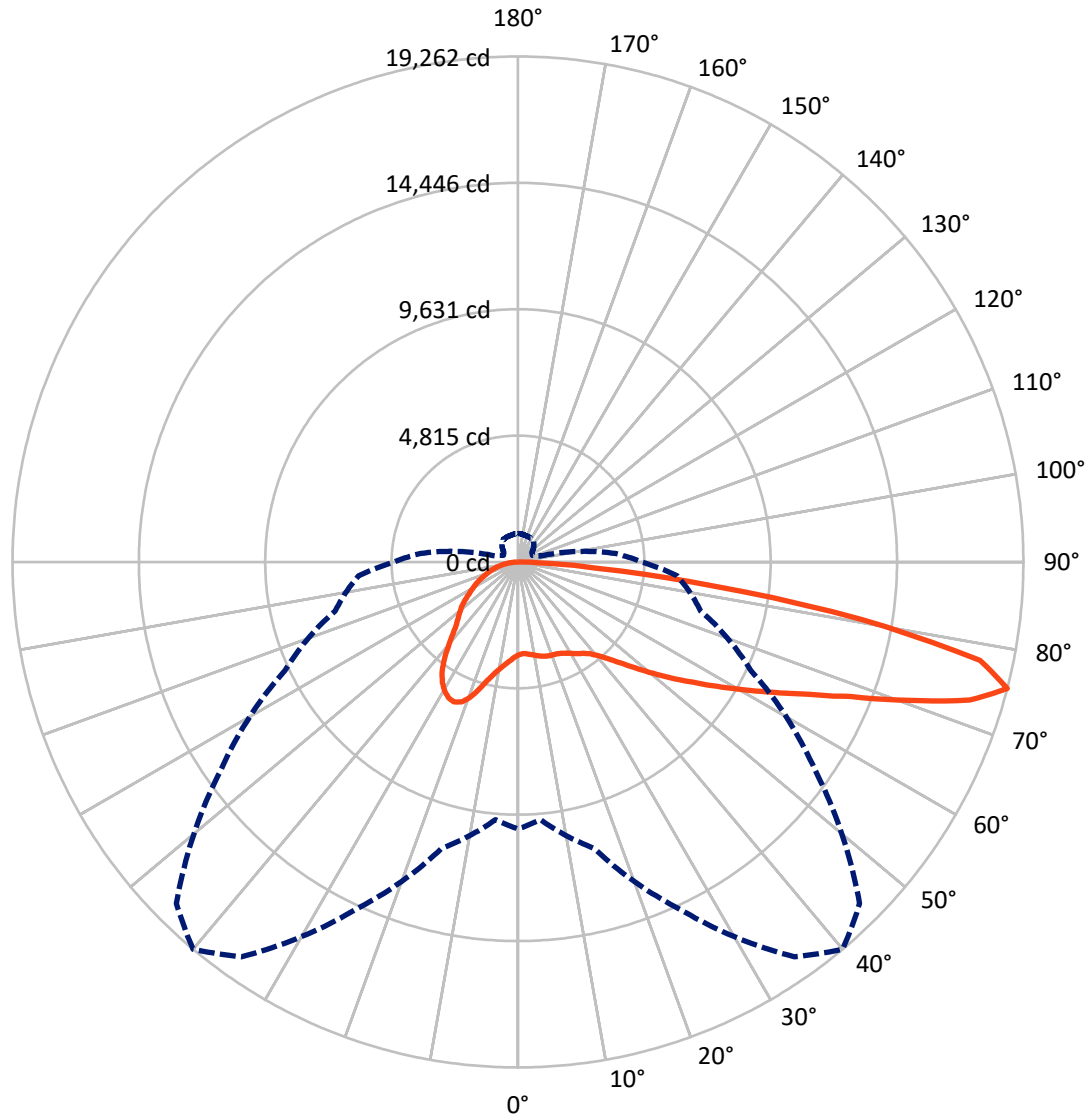
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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
<b>House Side</b>	Lumens	9588.4	0.0	9588.4
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	21358.6	0.0	21358.6
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	30947.0	0.0	30947.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	353.2	1.1
10°-20°	1186.0	3.8
20°-30°	2165.5	7.0
30°-40°	3071.3	9.9
40°-50°	4147.2	13.4
50°-60°	5579.1	18.0
60°-70°	7081.2	22.9
70°-80°	6426.6	20.8
80°-90°	936.8	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°	30947.0	100.0
0°-180°	30947.0	100.0

**Coefficient of Utilization**



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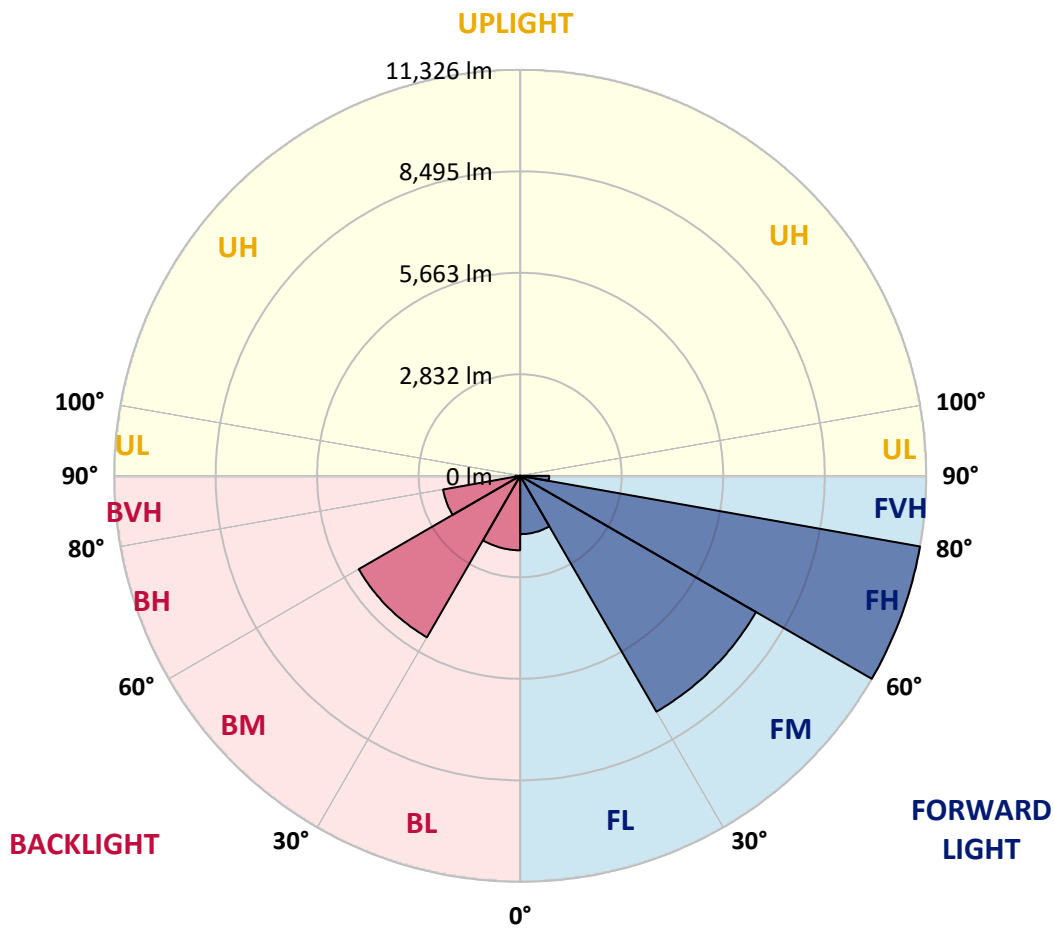
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1627.8	5.3			
FM (30°-60°)	7596.8	24.5			
FH (60°-80°)	11326.1	36.6			G4/12000
FVH (80°-90°)	807.8	2.6			G5
BL (0°-30°)	2076.9	6.7	B3/2500		
BM (30°-60°)	5200.9	16.8	B4/8500		
BH (60°-80°)	2181.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	129.0	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°	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8
2.5°	3484.7	3504.4	3499.4	3492.9	3492.9	3494.5	3492.9	3504.4	3515.9	3527.3
5°	3520.8	3540.5	3530.6	3522.4	3515.9	3514.2	3509.3	3507.6	3514.2	3529.0
7.5°	3591.4	3611.1	3596.3	3581.5	3568.4	3561.8	3555.2	3545.4	3540.5	3548.7
10°	3670.1	3689.8	3671.8	3645.5	3624.2	3616.0	3609.4	3599.6	3593.0	3597.9
12.5°	3748.9	3768.6	3744.0	3707.9	3680.0	3675.1	3666.9	3663.6	3661.9	3660.3
15°	3822.8	3839.2	3808.0	3765.3	3735.8	3727.6	3719.4	3724.3	3732.5	3742.4
17.5°	3880.2	3896.7	3850.7	3794.9	3767.0	3763.7	3758.8	3775.2	3798.2	3822.8
20°	3932.8	3949.2	3890.1	3814.6	3781.8	3781.8	3783.4	3817.9	3850.7	3886.8
22.5°	4006.6	4019.8	3947.5	3844.1	3796.5	3799.8	3812.9	3847.4	3888.4	3937.7
25°	4116.6	4126.4	4037.8	3899.9	3845.8	3855.6	3867.1	3883.5	3922.9	3980.4
27.5°	4293.9	4302.1	4185.5	3998.4	3916.3	3932.8	3949.2	3937.7	3955.7	4005.0
30°	4543.4	4548.3	4400.6	4152.7	4036.2	4044.4	4047.7	4000.1	3965.6	4005.0
32.5°	4838.8	4837.2	4661.5	4339.8	4172.4	4164.2	4136.3	4042.7	3962.3	3996.8
35°	5296.8	5278.7	5052.2	4602.4	4326.7	4275.8	4210.2	4090.3	3978.7	3988.6
37.5°	6055.1	5999.3	5685.8	5032.5	4556.5	4426.8	4330.0	4167.5	4014.8	3985.3
40°	6910.2	6839.7	6495.0	5621.8	4901.2	4692.7	4536.8	4277.5	4073.9	4000.1
42.5°	7924.6	7824.5	7453.5	6316.1	5337.8	5035.8	4801.1	4417.0	4160.9	4047.7
45°	9170.4	9037.5	8512.2	7099.0	5887.7	5485.5	5172.0	4628.7	4293.9	4139.6
47.5°	10429.4	10462.2	9715.4	7995.2	6547.5	6040.3	5636.5	4947.1	4487.6	4287.3
50°	11767.1	11790.1	10911.9	8988.2	7296.0	6667.3	6158.5	5303.3	4756.7	4497.4
52.5°	12811.0	12814.3	11998.5	10027.2	8075.6	7356.7	6721.5	5710.4	5068.6	4776.4
55°	13464.3	13456.1	12760.1	11010.4	8971.8	8080.5	7345.2	6173.3	5449.4	5104.7
57.5°	13938.7	13914.0	13285.4	11855.7	9927.1	8935.7	8051.0	6698.5	5899.1	5495.4
60°	14119.2	14104.4	13641.6	12586.2	10931.6	9881.2	8865.1	7286.1	6409.6	5956.6
62.5°	14188.2	14216.1	13991.2	13293.6	12006.7	10928.4	9759.7	7988.6	6984.1	6478.6
65°	14431.1	14482.0	14436.0	14219.3	13221.4	12154.5	10946.4	8824.1	7611.1	7038.3
67.5°	14912.0	14962.9	14982.6	15327.3	14705.2	13682.6	12426.9	9864.7	8344.8	7619.3
70°	14900.5	14885.7	15233.7	16208.7	16563.2	15798.4	14422.9	11145.0	9219.7	8101.9
72.5°	13562.8	13444.6	14266.9	16198.8	18109.4	18007.7	16860.3	12796.3	9974.7	8161.0
75°	10175.0	9859.8	11312.4	14598.5	18367.1	19261.7	18409.8	13820.5	9795.8	7210.6
77.5°	4351.3	4034.5	5746.5	10806.9	16438.5	18006.0	16988.4	12057.6	7819.6	4768.2
80°	1139.1	1137.5	1736.6	4899.5	11179.5	13296.9	11665.3	7786.7	4467.9	1703.8
82.5°	471.1	459.6	638.5	1905.7	5462.5	7461.7	6089.5	3473.2	1613.5	461.2
85°	175.6	174.0	310.2	658.2	1927.0	3077.6	2227.4	888.0	402.1	224.9
87.5°	49.2	47.6	67.3	228.2	469.4	712.4	380.8	146.1	113.3	88.6
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°
3538.8	0°	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8	3538.8
3545.4	2.5°	3550.3	3558.5	3573.3	3584.8	3599.6	3616.0	3639.0	3653.7	3668.5	3678.3
3553.6	5°	3565.1	3583.1	3620.9	3658.7	3703.0	3744.0	3791.6	3826.1	3854.0	3862.2
3583.1	7.5°	3597.9	3627.5	3691.5	3755.5	3826.1	3893.4	3962.3	4021.4	4069.0	4087.1
3635.7	10°	3655.4	3694.8	3785.0	3875.3	3968.9	4072.3	4160.9	4246.3	4313.6	4341.5
3698.0	12.5°	3727.6	3776.8	3895.0	4019.8	4149.4	4292.2	4407.1	4512.2	4595.9	4633.6
3785.0	15°	3821.1	3885.2	4036.2	4203.6	4394.0	4592.6	4738.7	4855.2	4948.8	4994.7
3875.3	17.5°	3922.9	4008.3	4198.7	4451.4	4723.9	4984.9	5155.6	5240.9	5337.8	5382.1
3959.0	20°	4021.4	4126.4	4398.9	4766.6	5129.3	5406.7	5544.6	5567.6	5574.2	5579.1
4037.8	22.5°	4123.2	4264.3	4650.0	5163.8	5552.8	5744.9	5764.6	5666.1	5528.2	5464.2
4115.0	25°	4234.8	4421.9	4978.3	5602.1	5917.2	5940.2	5789.2	5549.5	5288.5	5168.7
4177.3	27.5°	4343.1	4604.1	5372.3	6020.6	6179.8	5977.9	5652.9	5313.2	4998.0	4871.6
4221.6	30°	4451.4	4812.5	5807.2	6386.6	6299.6	5884.4	5437.9	5058.8	4742.0	4609.0
4261.0	32.5°	4561.4	5055.5	6307.9	6650.9	6278.3	5685.8	5170.4	4773.2	4494.1	4354.6
4295.5	35°	4686.2	5354.2	6782.2	6795.3	6135.5	5393.6	4817.5	4431.7	4188.8	4077.2
4336.5	37.5°	4848.7	5733.4	7200.8	6831.5	5886.0	4965.2	4379.2	4028.0	3827.7	3776.8
4397.3	40°	5050.5	6189.7	7520.8	6774.0	5516.7	4444.9	3899.9	3619.3	3506.0	3517.5
4479.3	42.5°	5313.2	6700.1	7745.7	6626.3	5002.9	3908.1	3479.7	3355.0	3409.2	3455.1
4602.4	45°	5654.6	7230.3	7885.2	6375.1	4421.9	3453.5	3231.9	3261.4	3302.5	3307.4
4801.1	47.5°	6091.2	7767.0	7977.1	5996.0	3829.4	3133.4	3074.3	3080.9	3072.7	3038.2
5098.1	50°	6636.1	8289.0	8059.2	5493.7	3325.5	2933.2	2854.4	2831.4	2718.1	2606.5
5493.7	52.5°	7256.6	8768.3	8093.7	4870.0	2933.2	2765.7	2637.7	2493.3	2281.5	2247.1
5991.1	55°	7946.0	9211.5	8005.0	4103.5	2603.2	2550.7	2357.0	2183.0	2160.1	2130.5
6646.0	57.5°	8769.9	9689.1	7824.5	3248.3	2265.1	2299.6	2110.8	2130.5	2089.5	2043.5
7488.0	60°	9671.1	10183.2	7507.7	2468.6	1915.5	1986.1	2046.8	2045.2	2033.7	1995.9
8376.0	62.5°	10481.9	10508.2	6884.0	1890.9	1608.6	1743.2	1908.9	1907.3	1897.4	1876.1
9303.4	65°	10964.5	10458.9	5843.3	1488.7	1355.8	1542.9	1721.8	1734.9	1736.6	1734.9
10001.0	67.5°	10879.1	9882.8	4415.3	1185.1	1147.3	1339.4	1536.3	1554.4	1567.5	1570.8
10089.6	70°	9914.0	8617.3	2879.0	945.4	961.9	1160.5	1360.7	1378.8	1390.3	1403.4
8755.2	72.5°	7727.7	6335.8	1648.0	764.9	799.4	1006.2	1186.7	1208.1	1214.6	1239.2
6092.8	75°	4709.1	3725.9	889.6	602.4	656.6	860.1	1014.4	1039.0	1050.5	1080.0
2992.2	77.5°	2238.9	1613.5	507.2	469.4	528.5	702.5	856.8	884.7	853.5	869.9
825.6	80°	756.7	599.1	320.1	357.8	403.8	548.2	686.1	714.0	648.3	645.1
274.1	82.5°	264.3	242.9	203.5	238.0	261.0	392.3	518.7	554.8	482.6	480.9
123.1	85°	103.4	98.5	113.3	129.7	155.9	241.3	341.4	359.5	297.1	239.6
36.1	87.5°	21.3	23.0	27.9	29.5	47.6	83.7	123.1	151.0	119.8	101.8
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>
3538.8
3671.8
3865.5
4088.7
4343.1
4633.6
4991.5
5380.5
5592.2
5482.2
5186.8
4886.4
4623.8
4372.7
4101.8
3812.9
3556.9
3497.8
3340.2
3064.5
2621.3
2258.5
2135.4
2035.3
1982.8
1867.9
1734.9
1574.1
1410.0
1249.1
<i>1083.3</i>
856.8
638.5
457.9
236.4
93.6
0.0

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