

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: P943802

Luminaire Tested: **GALN-SB8B-950-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943802  
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-SB8B-950-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

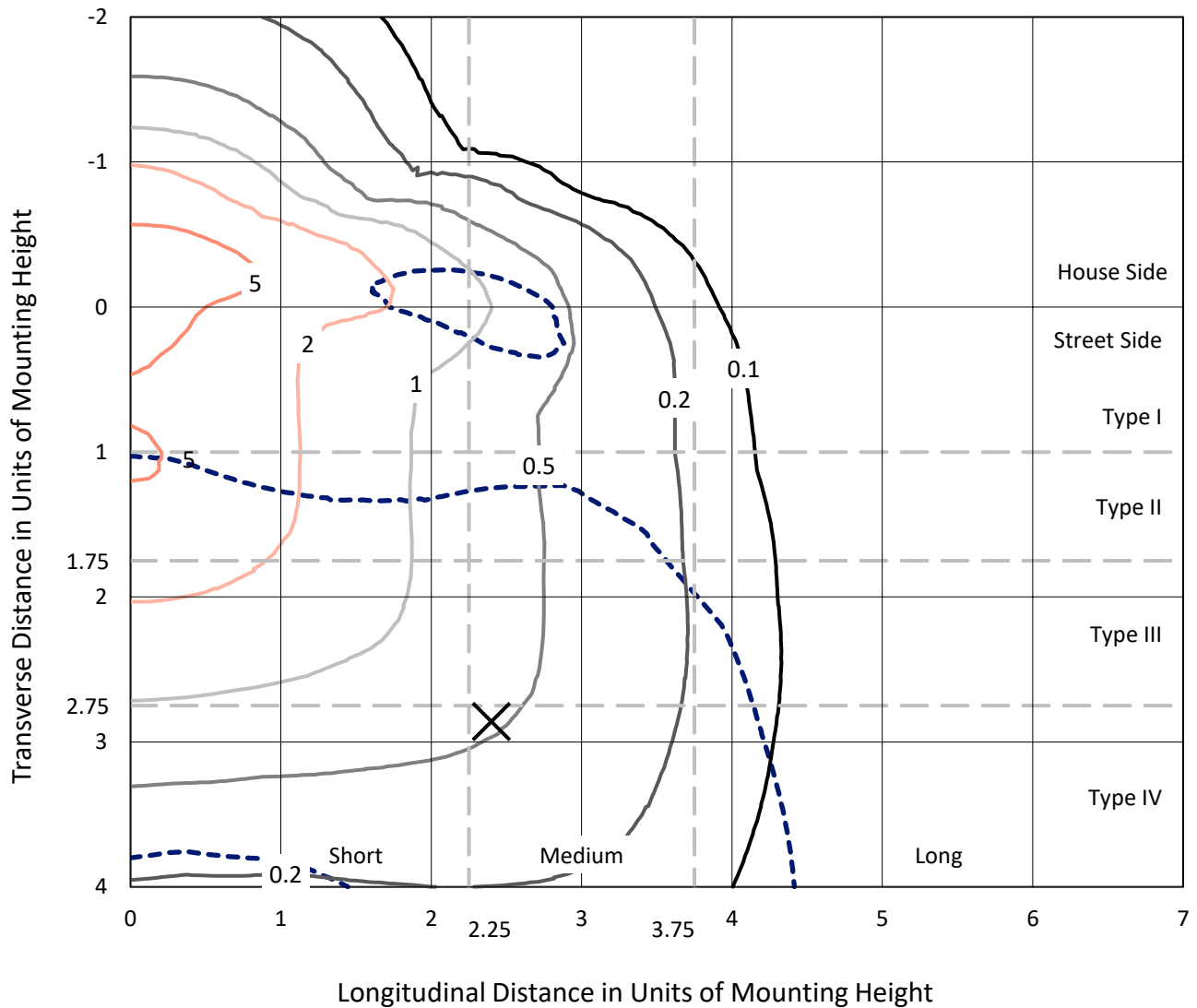
Lumens per Lamp: N/A  
Luminaire Lumens: 31399 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

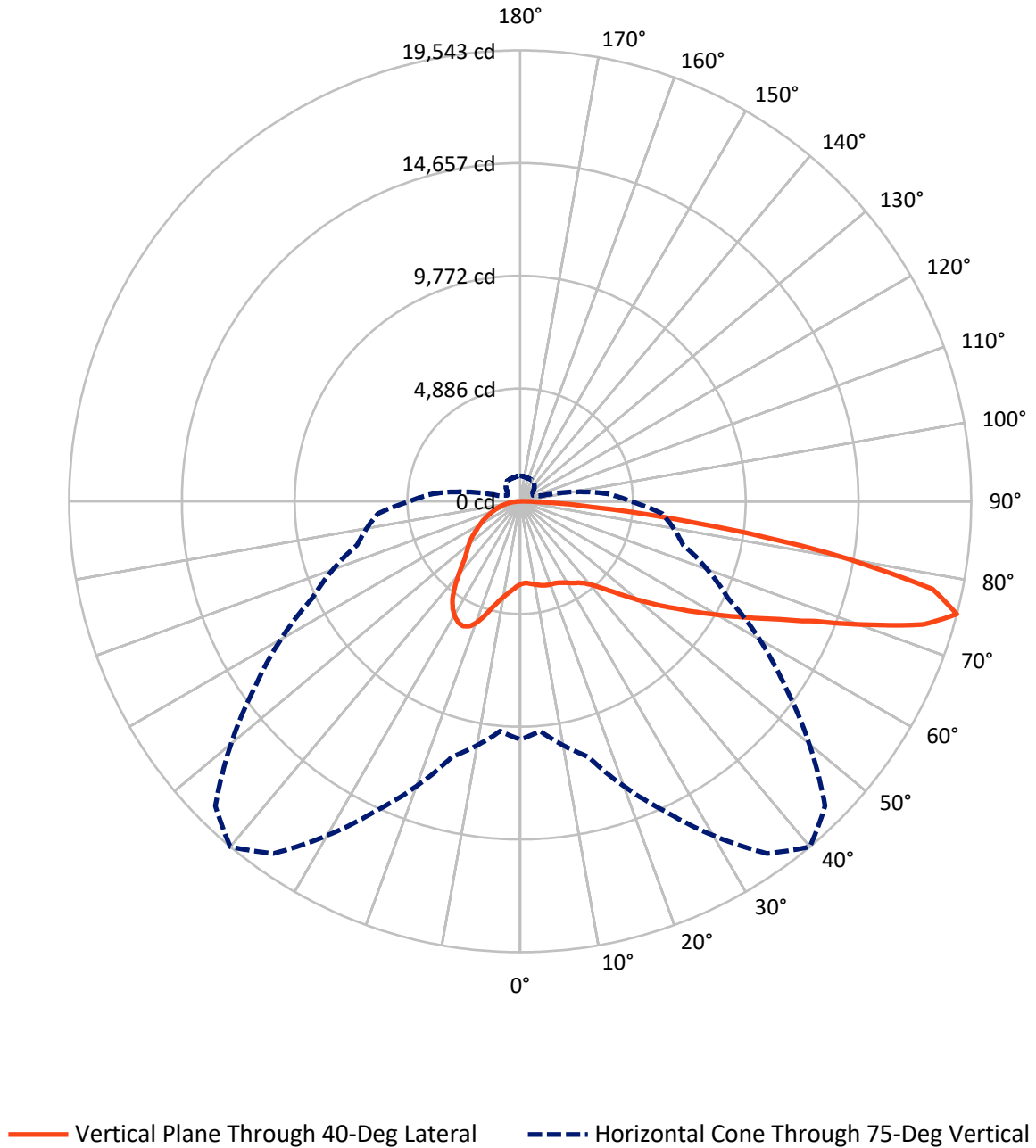
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9728.5	0.0	9728.5
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	21670.5	0.0	21670.5
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	31399.0	0.0	31399.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	358.4	1.1
10°-20°	1203.3	3.8
20°-30°	2197.2	7.0
30°-40°	3116.2	9.9
40°-50°	4207.8	13.4
50°-60°	5660.6	18.0
60°-70°	7184.6	22.9
70°-80°	6520.5	20.8
80°-90°	950.5	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°	31399.0	100.0
0°-180°	31399.0	100.0

**Coefficient of Utilization**



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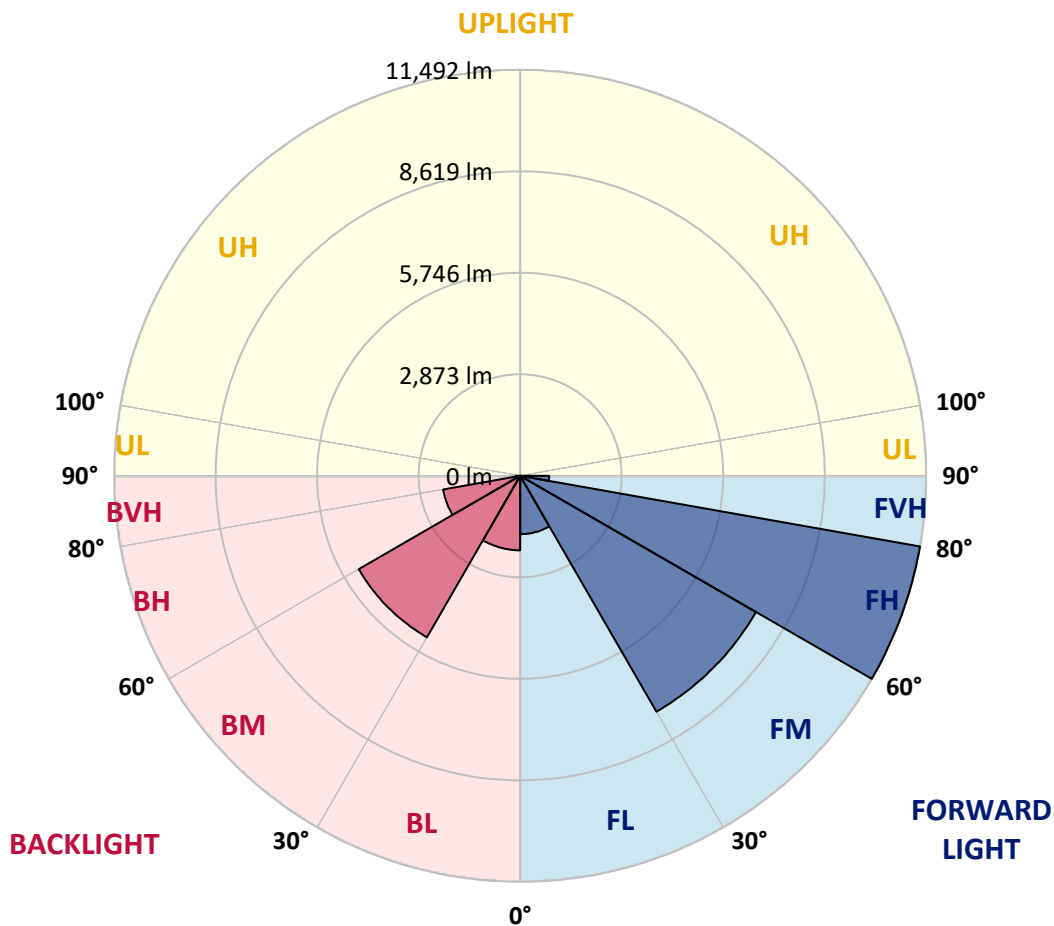
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1651.6	5.3			
FM (30°-60°)	7707.8	24.5			
FH (60°-80°)	11491.6	36.6			G4/12000
FVH (80°-90°)	819.6	2.6			G5
BL (0°-30°)	2107.3	6.7	B3/2500		
BM (30°-60°)	5276.8	16.8	B4/8500		
BH (60°-80°)	2213.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	130.9	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°	3590.5	3590.5	3590.5	3590.5	3590.5	3590.5	3590.5	3590.5	3590.5	3590.5
2.5°	3535.6	3555.5	3550.5	3543.9	3543.9	3545.6	3543.9	3555.5	3567.2	3578.9
5°	3572.2	3592.2	3582.2	3573.9	3567.2	3565.5	3560.5	3558.9	3565.5	3580.5
7.5°	3643.8	3663.8	3648.8	3633.8	3620.5	3613.8	3607.2	3597.2	3592.2	3600.5
10°	3723.7	3743.7	3725.4	3698.8	3677.1	3668.8	3662.1	3652.1	3645.5	3650.5
12.5°	3803.7	3823.7	3798.7	3762.0	3733.7	3728.7	3720.4	3717.1	3715.4	3713.8
15°	3878.6	3895.3	3863.6	3820.3	3790.4	3782.0	3773.7	3778.7	3787.0	3797.0
17.5°	3936.9	3953.6	3906.9	3850.3	3822.0	3818.7	3813.7	3830.3	3853.6	3878.6
20°	3990.2	4006.9	3946.9	3870.3	3837.0	3837.0	3838.7	3873.6	3906.9	3943.6
22.5°	4065.1	4078.5	4005.2	3900.3	3852.0	3855.3	3868.6	3903.6	3945.2	3995.2
25°	4176.7	4186.7	4096.8	3956.9	3901.9	3911.9	3923.6	3940.2	3980.2	4038.5
27.5°	4356.6	4364.9	4246.7	4056.8	3973.6	3990.2	4006.9	3995.2	4013.5	4063.5
30°	4609.7	4614.7	4464.8	4213.4	4095.1	4103.4	4106.8	4058.5	4023.5	4063.5
32.5°	4909.5	4907.8	4729.6	4403.2	4233.3	4225.0	4196.7	4101.8	4020.2	4055.2
35°	5374.1	5355.8	5126.0	4669.7	4389.9	4338.3	4271.6	4150.1	4036.8	4046.8
37.5°	6143.5	6086.9	5768.8	5106.0	4623.0	4491.5	4393.2	4228.4	4073.5	4043.5
40°	7011.2	6939.6	6589.8	5703.9	4972.8	4761.3	4603.1	4339.9	4133.4	4058.5
42.5°	8040.4	7938.8	7562.4	6408.3	5415.8	5109.3	4871.2	4481.5	4221.7	4106.8
45°	9304.4	9169.5	8636.6	7202.7	5973.6	5565.6	5247.6	4696.3	4356.6	4200.0
47.5°	10581.7	10615.0	9857.3	8112.0	6643.1	6128.5	5718.8	5019.4	4553.1	4349.9
50°	11939.0	11962.3	11071.3	9119.5	7402.5	6764.7	6248.4	5380.8	4826.2	4563.1
52.5°	12998.1	13001.5	12173.8	10173.7	8193.6	7464.1	6819.7	5793.8	5142.6	4846.2
55°	13661.0	13652.6	12946.5	11171.2	9102.9	8198.6	7452.5	6263.4	5529.0	5179.3
57.5°	14142.2	14117.3	13479.4	12028.9	10072.1	9066.2	8168.6	6796.3	5985.3	5575.6
60°	14325.4	14310.4	13840.8	12770.0	11091.3	10025.5	8994.6	7392.5	6503.2	6043.6
62.5°	14395.4	14423.7	14195.5	13487.8	12182.1	11088.0	9902.2	8105.3	7086.1	6573.2
65°	14641.9	14693.5	14646.8	14427.0	13414.5	12332.0	11106.3	8953.0	7722.3	7141.1
67.5°	15129.8	15181.4	15201.4	15551.1	14920.0	13882.4	12608.4	10008.8	8466.7	7730.6
70°	15118.1	15103.2	15456.2	16445.4	16805.2	16029.1	14633.5	11307.8	9354.3	8220.2
72.5°	13760.9	13641.0	14475.3	16435.4	18373.9	18270.7	17106.6	12983.2	10120.4	8280.2
75°	10323.6	10003.8	11477.7	14811.7	18635.4	19543.0	18678.7	14022.3	9938.9	7315.9
77.5°	4414.9	4093.5	5830.4	10964.7	16678.6	18269.0	17236.5	12233.7	7933.8	4837.9
80°	1155.8	1154.1	1762.0	4971.1	11342.8	13491.1	11835.7	7900.5	4533.1	1728.6
82.5°	478.0	466.3	647.8	1933.5	5542.3	7570.7	6178.5	3523.9	1637.0	468.0
85°	178.2	176.5	314.8	667.8	1955.1	3122.6	2259.9	901.0	408.0	228.2
87.5°	50.0	48.3	68.3	231.5	476.3	722.8	386.4	148.2	114.9	89.9
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°
3590.5	0°	3590.5	3590.5	3590.5	3590.5	3590.5	3590.5	3590.5	3590.5	3590.5	3590.5
3597.2	2.5°	3602.2	3610.5	3625.5	3637.1	3652.1	3668.8	3692.1	3707.1	3722.1	3732.1
3605.5	5°	3617.2	3635.5	3673.8	3712.1	3757.1	3798.7	3847.0	3882.0	3910.3	3918.6
3635.5	7.5°	3650.5	3680.4	3745.4	3810.3	3882.0	3950.2	4020.2	4080.1	4128.4	4146.7
3688.8	10°	3708.8	3748.7	3840.3	3931.9	4026.8	4131.8	4221.7	4308.3	4376.6	4404.9
3752.1	12.5°	3782.0	3832.0	3951.9	4078.5	4210.0	4354.9	4471.5	4578.1	4663.0	4701.3
3840.3	15°	3877.0	3941.9	4095.1	4265.0	4458.2	4659.7	4807.9	4926.1	5021.1	5067.7
3931.9	17.5°	3980.2	4066.8	4260.0	4516.5	4792.9	5057.7	5230.9	5317.5	5415.8	5460.7
4016.8	20°	4080.1	4186.7	4463.2	4836.2	5204.3	5485.7	5625.6	5648.9	5655.6	5660.6
4096.8	22.5°	4183.4	4326.6	4718.0	5239.2	5633.9	5828.8	5848.7	5748.8	5608.9	5544.0
4175.1	25°	4296.6	4486.5	5051.0	5683.9	6003.6	6026.9	5873.7	5630.6	5365.8	5244.2
4238.3	27.5°	4406.5	4671.3	5450.7	6108.5	6270.1	6065.2	5735.5	5390.8	5071.0	4942.8
4283.3	30°	4516.5	4882.8	5892.0	6479.9	6391.7	5970.3	5517.3	5132.6	4811.2	4676.3
4323.3	32.5°	4628.0	5129.3	6400.0	6748.0	6370.0	5768.8	5245.9	4842.9	4559.8	4418.2
4358.2	35°	4754.6	5432.4	6881.3	6894.6	6225.1	5472.4	4887.8	4496.5	4250.0	4136.8
4399.9	37.5°	4919.5	5817.1	7305.9	6931.2	5972.0	5037.7	4443.2	4086.8	3883.6	3832.0
4461.5	40°	5124.3	6280.1	7630.7	6872.9	5597.3	4509.8	3956.9	3672.1	3557.2	3568.9
4544.8	42.5°	5390.8	6798.0	7858.8	6723.1	5076.0	3965.2	3530.6	3404.0	3459.0	3505.6
4669.7	45°	5737.2	7335.9	8000.4	6468.3	4486.5	3503.9	3279.1	3309.1	3350.7	3355.7
4871.2	47.5°	6180.2	7880.5	8093.7	6083.6	3885.3	3179.2	3119.2	3125.9	3117.6	3082.6
5172.6	50°	6733.1	8410.1	8176.9	5574.0	3374.0	2976.0	2896.1	2872.7	2757.8	2644.6
5574.0	52.5°	7362.6	8896.4	8211.9	4941.1	2976.0	2806.1	2676.2	2529.7	2314.9	2279.9
6078.6	55°	8062.0	9346.0	8122.0	4163.4	2641.3	2588.0	2391.5	2214.9	2191.6	2161.6
6743.0	57.5°	8898.0	9830.6	7938.8	3295.7	2298.2	2333.2	2141.7	2161.6	2120.0	2073.4
7597.4	60°	9812.3	10331.9	7617.4	2504.7	1943.5	2015.1	2076.7	2075.0	2063.4	2025.1
8498.3	62.5°	10635.0	10661.6	6984.5	1918.5	1632.1	1768.6	1936.8	1935.1	1925.2	1903.5
9439.3	65°	11124.6	10611.7	5928.7	1510.5	1375.6	1565.4	1747.0	1760.3	1762.0	1760.3
10147.0	67.5°	11038.0	10027.1	4479.8	1202.4	1164.1	1358.9	1558.8	1577.1	1590.4	1593.8
10237.0	70°	10058.8	8743.1	2921.0	959.2	975.9	1177.4	1380.6	1398.9	1410.6	1423.9
8883.0	72.5°	7840.5	6428.3	1672.0	776.1	811.0	1020.9	1204.1	1225.7	1232.4	1257.3
6181.8	75°	4777.9	3780.4	902.6	611.2	666.1	872.6	1029.2	1054.2	1065.8	1095.8
3036.0	77.5°	2271.6	1637.0	514.6	476.3	536.2	712.8	869.3	897.6	866.0	882.6
837.7	80°	767.7	607.9	324.7	363.0	409.7	556.2	696.1	724.4	657.8	654.5
278.1	82.5°	268.1	246.5	206.5	241.5	264.8	398.0	526.3	562.9	489.6	488.0
124.9	85°	104.9	99.9	114.9	131.6	158.2	244.8	346.4	364.7	301.4	243.1
36.6	87.5°	21.6	23.3	28.3	30.0	48.3	84.9	124.9	153.2	121.6	103.3
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>
3590.5
3725.4
3921.9
4148.4
4406.5
4701.3
5064.4
5459.1
5673.9
5562.3
5262.5
4957.8
4691.3
4436.5
4161.7
3868.6
3608.8
3548.9
3389.0
3109.2
2659.6
2291.5
2166.6
2065.0
2011.8
1895.2
1760.3
1597.1
1430.5
1267.3
<i>1099.1</i>
869.3
647.8
464.6
239.8
94.9
0.0

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