

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: P942602

Luminaire Tested: **GALN-SB6C-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942602
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-SB6C-940-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32621 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

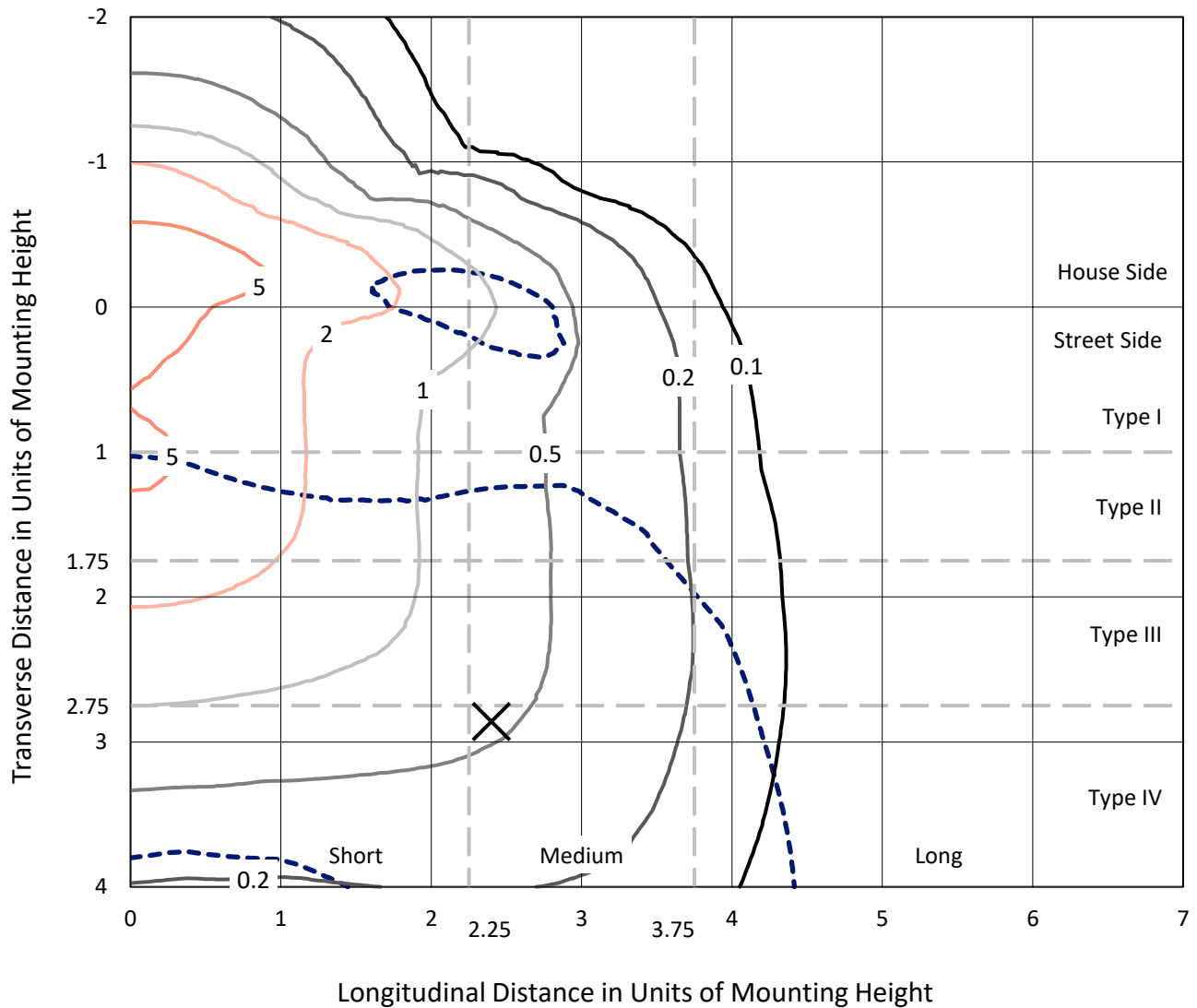
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

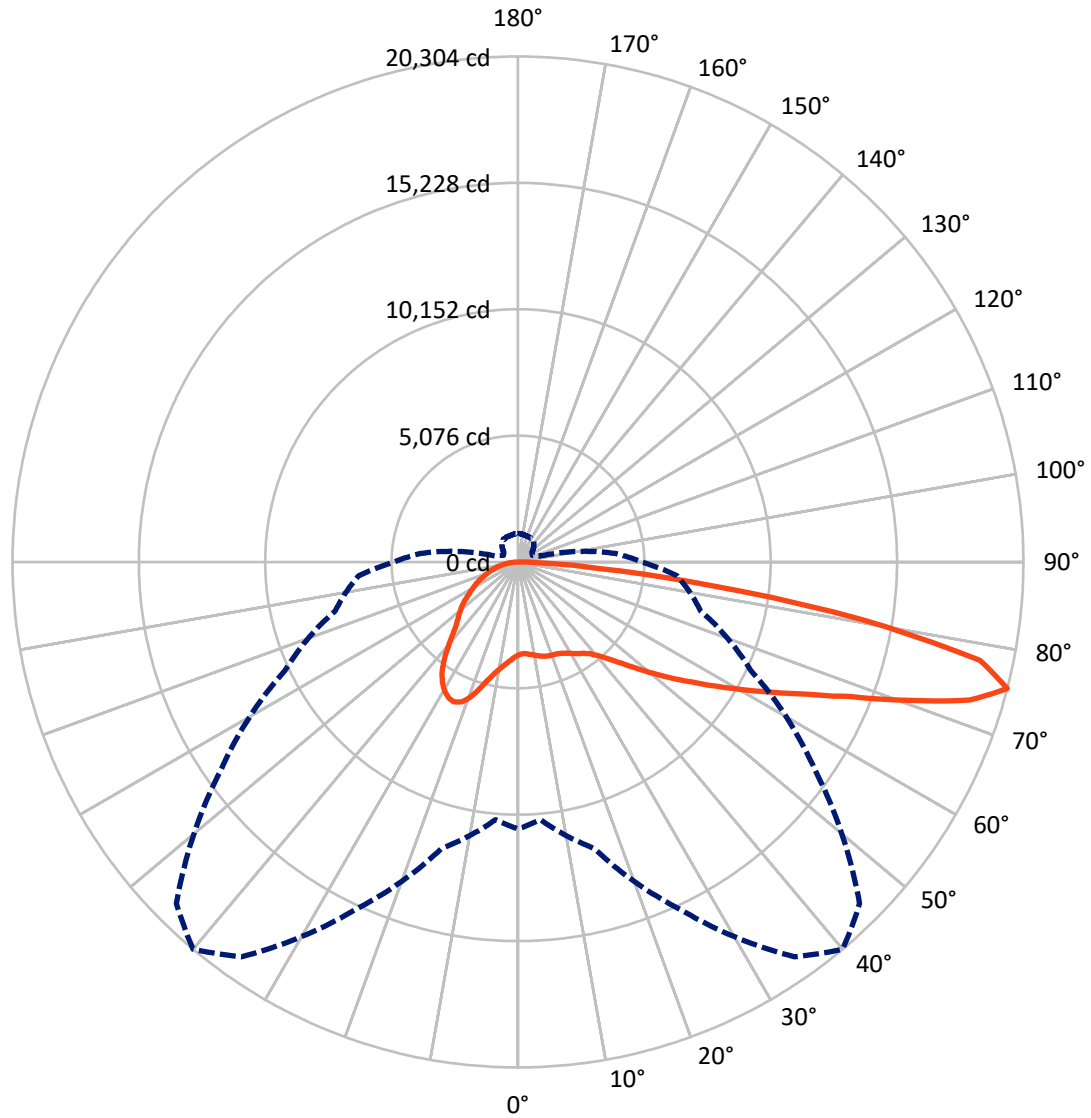
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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
House Side	Lumens	10107.1	0.0	10107.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	22513.9	0.0	22513.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	32621.0	0.0	32621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.4	1.1
10°-20°	1250.2	3.8
20°-30°	2282.7	7.0
30°-40°	3237.5	9.9
40°-50°	4371.5	13.4
50°-60°	5880.9	18.0
60°-70°	7464.2	22.9
70°-80°	6774.2	20.8
80°-90°	987.5	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°	32621.0	100.0
0°-180°	32621.0	100.0

Coefficient of Utilization



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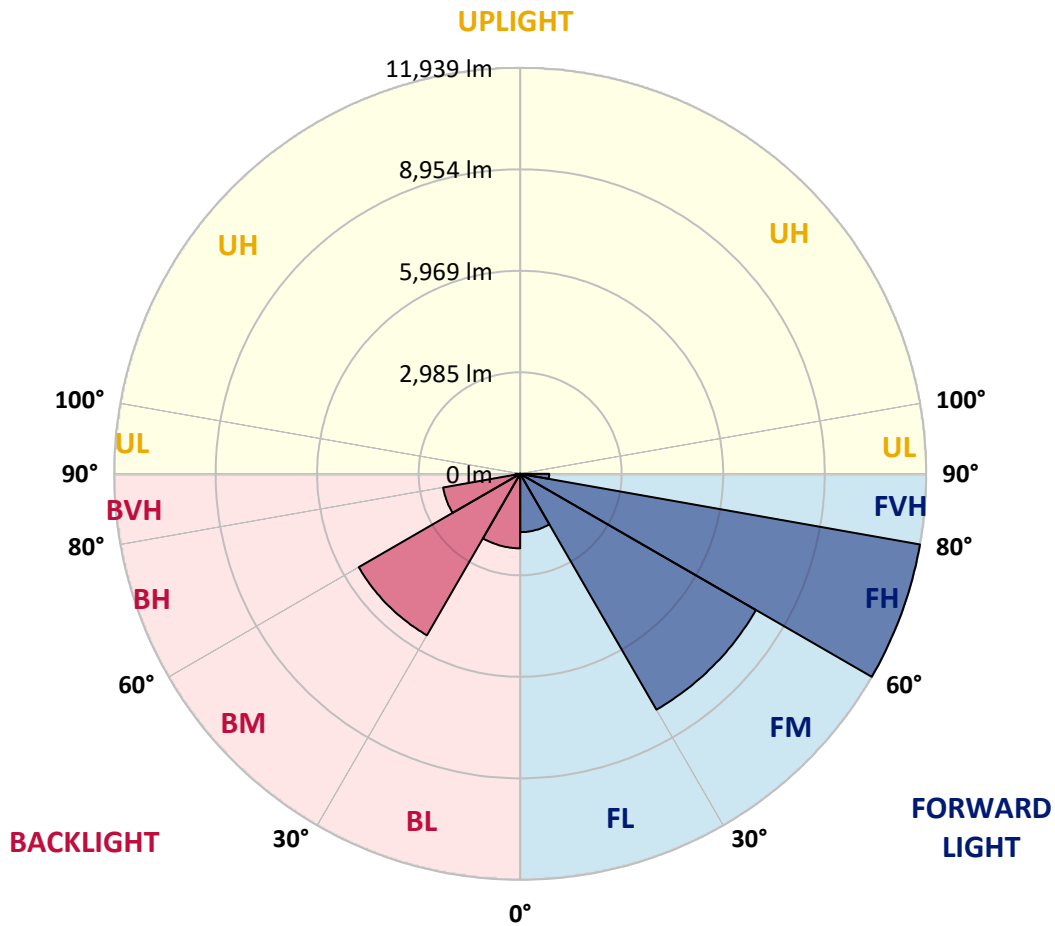
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1715.9	5.3			
FM (30°-60°)	8007.7	24.5			
FH (60°-80°)	11938.8	36.6			G4/12000
FVH (80°-90°)	851.5	2.6			G5
BL (0°-30°)	2189.3	6.7	B3/2500		
BM (30°-60°)	5482.2	16.8	B4/8500		
BH (60°-80°)	2299.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	136.0	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°	3730.3	3730.3	3730.3	3730.3	3730.3	3730.3	3730.3	3730.3	3730.3	3730.3
2.5°	3673.2	3693.9	3688.7	3681.8	3681.8	3683.5	3681.8	3693.9	3706.0	3718.1
5°	3711.2	3732.0	3721.6	3713.0	3706.0	3704.3	3699.1	3697.4	3704.3	3719.9
7.5°	3785.6	3806.4	3790.8	3775.2	3761.4	3754.5	3747.6	3737.2	3732.0	3740.6
10°	3868.7	3889.4	3870.4	3842.7	3820.2	3811.6	3804.7	3794.3	3787.4	3792.5
12.5°	3951.7	3972.5	3946.5	3908.5	3879.0	3873.9	3865.2	3861.7	3860.0	3858.3
15°	4029.6	4046.9	4014.0	3969.0	3937.9	3929.2	3920.6	3925.8	3934.4	3944.8
17.5°	4090.1	4107.4	4059.0	4000.2	3970.7	3967.3	3962.1	3979.4	4003.6	4029.6
20°	4145.5	4162.8	4100.5	4020.9	3986.3	3986.3	3988.1	4024.4	4059.0	4097.1
22.5°	4223.4	4237.2	4161.1	4052.1	4001.9	4005.4	4019.2	4055.5	4098.8	4150.7
25°	4339.3	4349.7	4256.2	4110.9	4053.8	4064.2	4076.3	4093.6	4135.1	4195.7
27.5°	4526.1	4534.8	4411.9	4214.7	4128.2	4145.5	4162.8	4150.7	4169.7	4221.6
30°	4789.1	4794.3	4638.6	4377.3	4254.5	4263.1	4266.6	4216.4	4180.1	4221.6
32.5°	5100.6	5098.8	4913.7	4574.6	4398.1	4389.5	4360.0	4261.4	4176.6	4213.0
35°	5583.3	5564.2	5325.5	4851.4	4560.7	4507.1	4437.9	4311.6	4193.9	4204.3
37.5°	6382.6	6323.8	5993.3	5304.7	4803.0	4666.3	4564.2	4392.9	4232.0	4200.9
40°	7284.0	7209.6	6846.3	5925.8	5166.3	4946.6	4782.2	4508.8	4294.3	4216.4
42.5°	8353.3	8247.7	7856.7	6657.7	5626.5	5308.2	5060.8	4655.9	4386.0	4266.6
45°	9666.5	9526.3	8972.7	7483.0	6206.1	5782.2	5451.8	4879.1	4526.1	4363.5
47.5°	10993.5	11028.1	10240.9	8427.7	6901.7	6367.0	5941.4	5214.7	4730.3	4519.2
50°	12403.6	12427.8	11502.2	9474.4	7690.6	7028.0	6491.6	5590.2	5014.0	4740.7
52.5°	13504.0	13507.5	12647.6	10569.6	8512.5	7754.6	7085.1	6019.3	5342.8	5034.8
55°	14192.6	14184.0	13450.4	11606.0	9457.1	8517.6	7742.5	6507.2	5744.2	5380.8
57.5°	14692.6	14666.7	14004.0	12497.0	10464.1	9419.1	8486.5	7060.8	6218.2	5792.6
60°	14883.0	14867.4	14379.5	13267.0	11523.0	10415.6	9344.7	7680.2	6756.3	6278.8
62.5°	14955.6	14985.0	14748.0	14012.7	12656.2	11519.5	10287.6	8420.8	7361.9	6829.0
65°	15211.7	15265.3	15216.9	14988.5	13936.6	12811.9	11538.5	9301.4	8022.8	7419.0
67.5°	15718.6	15772.3	15793.0	16156.4	15500.6	14422.7	13099.1	10398.3	8796.2	8031.5
70°	15706.5	15690.9	16057.7	17085.5	17459.2	16652.9	15203.0	11747.9	9718.4	8540.1
72.5°	14296.4	14171.9	15038.7	17075.1	19089.0	18981.7	17772.3	13488.4	10514.3	8602.4
75°	10725.3	10393.2	11924.4	15388.2	19360.6	20303.6	19405.6	14568.1	10325.7	7600.7
77.5°	4586.7	4252.8	6057.3	11391.5	17327.7	18980.0	17907.3	12709.9	8242.5	5026.2
80°	1200.7	1199.0	1830.5	5164.6	11784.2	14016.1	12296.3	8207.9	4709.5	1795.9
82.5°	496.6	484.4	673.0	2008.7	5758.0	7865.4	6418.9	3661.0	1700.8	486.2
85°	185.1	183.4	327.0	693.8	2031.2	3244.1	2347.8	936.0	423.9	237.0
87.5°	51.9	50.2	70.9	240.5	494.8	750.9	401.4	154.0	119.4	93.4
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°
3730.3	0°	3730.3	3730.3	3730.3	3730.3	3730.3	3730.3	3730.3	3730.3	3730.3	3730.3
3737.2	2.5°	3742.4	3751.0	3766.6	3778.7	3794.3	3811.6	3835.8	3851.4	3866.9	3877.3
3745.8	5°	3757.9	3777.0	3816.8	3856.6	3903.3	3946.5	3996.7	4033.0	4062.4	4071.1
3777.0	7.5°	3792.5	3823.7	3891.2	3958.6	4033.0	4104.0	4176.6	4238.9	4289.1	4308.1
3832.3	10°	3853.1	3894.6	3989.8	4084.9	4183.6	4292.6	4386.0	4476.0	4546.9	4576.3
3898.1	12.5°	3929.2	3981.1	4105.7	4237.2	4373.9	4524.4	4645.5	4756.2	4844.5	4884.3
3989.8	15°	4027.8	4095.3	4254.5	4431.0	4631.7	4841.0	4995.0	5117.9	5216.5	5264.9
4084.9	17.5°	4135.1	4225.1	4425.8	4692.2	4979.4	5254.5	5434.5	5524.4	5626.5	5673.2
4173.2	20°	4238.9	4349.7	4636.9	5024.4	5406.8	5699.2	5844.5	5868.7	5875.7	5880.9
4256.2	22.5°	4346.2	4495.0	4901.6	5443.1	5853.2	6055.6	6076.4	5972.6	5827.2	5759.7
4337.5	25°	4463.8	4661.1	5247.6	5905.1	6237.3	6261.5	6102.3	5849.7	5574.6	5448.3
4403.3	27.5°	4578.0	4853.1	5662.9	6346.3	6514.1	6301.3	5958.7	5600.6	5268.4	5135.2
4450.0	30°	4692.2	5072.9	6121.4	6732.1	6640.4	6202.7	5732.1	5332.4	4998.5	4858.3
4491.5	32.5°	4808.2	5328.9	6649.1	7010.7	6617.9	5993.3	5450.0	5031.3	4737.2	4590.2
4527.9	35°	4939.6	5643.8	7149.1	7162.9	6467.4	5685.4	5078.1	4671.5	4415.4	4297.8
4571.1	37.5°	5110.9	6043.5	7590.3	7201.0	6204.4	5233.8	4616.1	4245.8	4034.8	3981.1
4635.1	40°	5323.7	6524.5	7927.7	7140.4	5815.1	4685.3	4110.9	3815.0	3695.7	3707.8
4721.6	42.5°	5600.6	7062.6	8164.7	6984.7	5273.6	4119.5	3668.0	3536.5	3593.6	3642.0
4851.4	45°	5960.4	7621.4	8311.8	6720.0	4661.1	3640.3	3406.7	3437.9	3481.1	3486.3
5060.8	47.5°	6420.7	8187.2	8408.6	6320.3	4036.5	3302.9	3240.6	3247.5	3238.9	3202.6
5373.9	50°	6995.1	8737.4	8495.2	5790.9	3505.3	3091.8	3008.8	2984.5	2865.2	2747.5
5790.9	52.5°	7649.1	9242.6	8531.5	5133.4	3091.8	2915.3	2780.4	2628.1	2404.9	2368.6
6315.1	55°	8375.8	9709.7	8438.1	4325.4	2744.1	2688.7	2484.5	2301.1	2276.9	2245.8
7005.5	57.5°	9244.3	10213.2	8247.7	3424.0	2387.6	2424.0	2225.0	2245.8	2202.5	2154.1
7893.1	60°	10194.2	10734.0	7913.8	2602.2	2019.1	2093.5	2157.5	2155.8	2143.7	2103.9
8829.1	62.5°	11048.9	11076.6	7256.3	1993.2	1695.6	1837.4	2012.2	2010.5	2000.1	1977.6
9806.6	65°	11557.6	11024.7	6159.4	1569.3	1429.1	1626.4	1815.0	1828.8	1830.5	1828.8
10541.9	67.5°	11467.6	10417.4	4654.2	1249.2	1209.4	1411.8	1619.4	1638.5	1652.3	1655.8
10635.4	70°	10450.3	9083.4	3034.7	996.6	1013.9	1223.2	1434.3	1453.3	1465.5	1479.3
9228.7	72.5°	8145.7	6678.5	1737.1	806.3	842.6	1060.6	1250.9	1273.4	1280.3	1306.3
6422.4	75°	4963.9	3927.5	937.8	635.0	692.1	906.6	1069.2	1095.2	1107.3	1138.5
3154.1	77.5°	2360.0	1700.8	534.6	494.8	557.1	740.5	903.2	932.6	899.7	917.0
870.3	80°	797.6	631.5	337.4	377.2	425.6	577.9	723.2	752.6	683.4	680.0
288.9	82.5°	278.6	256.1	214.5	250.9	275.1	413.5	546.7	584.8	508.7	506.9
129.8	85°	109.0	103.8	119.4	136.7	164.4	254.3	359.9	378.9	313.2	252.6
38.1	87.5°	22.5	24.2	29.4	31.1	50.2	88.2	129.8	159.2	126.3	107.3
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>
3730.3
3870.4
4074.6
4309.9
4578.0
4884.3
5261.5
5671.5
5894.7
5778.8
5467.3
5150.7
4873.9
4609.2
4323.7
4019.2
3749.3
3687.0
3520.9
3230.2
2763.1
2380.7
2251.0
2145.4
2090.1
1968.9
1828.8
1659.2
1486.2
1316.7
1141.9
903.2
673.0
482.7
249.1
98.6
0.0

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