

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: P944222

Luminaire Tested: **GALN-SB9A-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944222
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-SB9A-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35218 lumens
Efficiency: N/A
Efficacy: 137.8 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

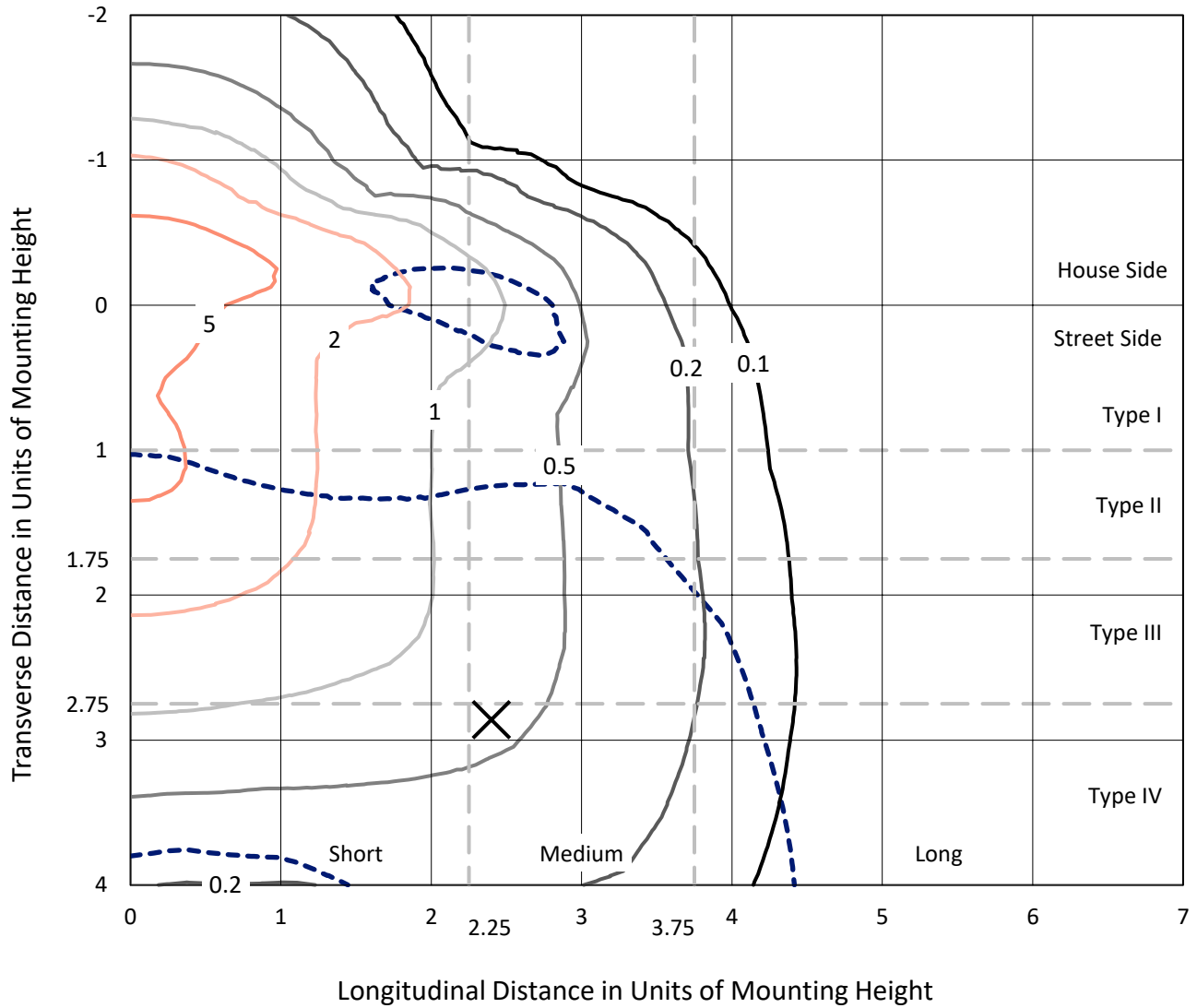
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

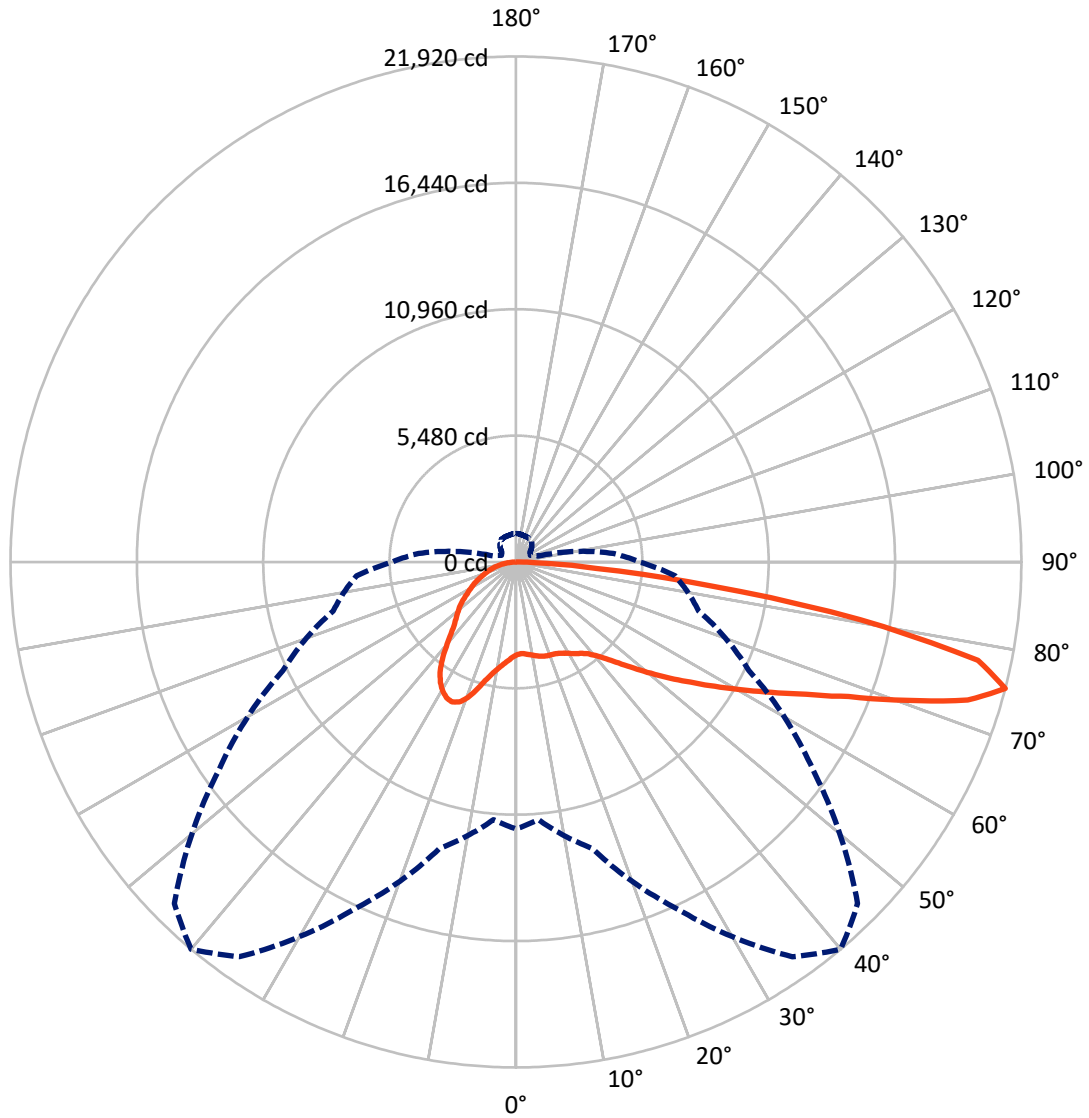
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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
House Side	Lumens	10911.7	0.0	10911.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	24306.3	0.0	24306.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	35218.0	0.0	35218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.0	1.1
10°-20°	1349.7	3.8
20°-30°	2464.4	7.0
30°-40°	3495.2	9.9
40°-50°	4719.6	13.4
50°-60°	6349.1	18.0
60°-70°	8058.4	22.9
70°-80°	7313.5	20.8
80°-90°	1066.1	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°	35218.0	100.0
0°-180°	35218.0	100.0

Coefficient of Utilization



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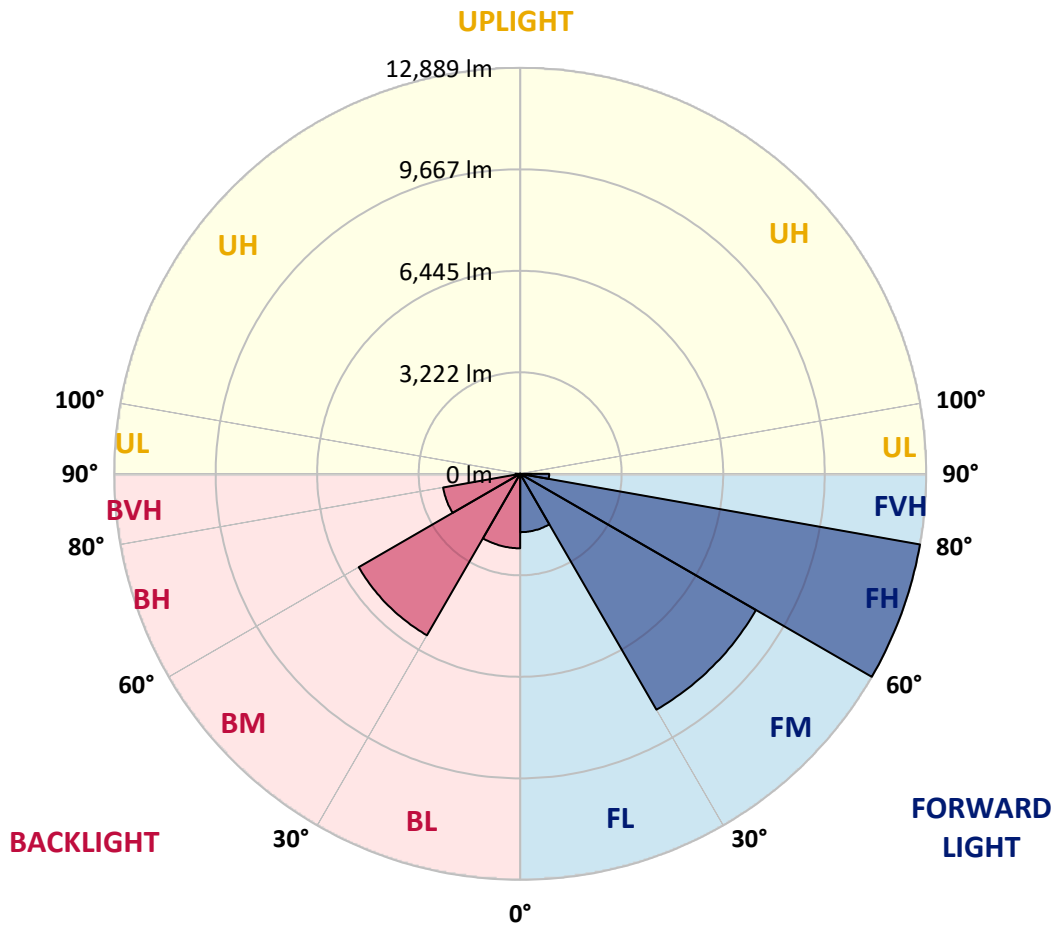
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1852.5	5.3			
FM (30°-60°)	8645.2	24.5			
FH (60°-80°)	12889.2	36.6			G5
FVH (80°-90°)	919.3	2.6			G5
BL (0°-30°)	2363.6	6.7	B3/2500		
BM (30°-60°)	5918.6	16.8	B4/8500		
BH (60°-80°)	2482.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	146.8	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°	4027.2	4027.2	4027.2	4027.2	4027.2	4027.2	4027.2	4027.2	4027.2	4027.2
2.5°	3965.6	3988.0	3982.4	3974.9	3974.9	3976.8	3974.9	3988.0	4001.1	4014.1
5°	4006.7	4029.1	4017.9	4008.5	4001.1	3999.2	3993.6	3991.7	3999.2	4016.0
7.5°	4087.0	4109.4	4092.6	4075.8	4060.8	4053.4	4045.9	4034.7	4029.1	4038.4
10°	4176.7	4199.1	4178.5	4148.6	4124.4	4115.0	4107.5	4096.3	4088.9	4094.5
12.5°	4266.3	4288.7	4260.7	4219.6	4187.9	4182.3	4172.9	4169.2	4167.3	4165.5
15°	4350.4	4369.1	4333.6	4285.0	4251.4	4242.0	4232.7	4238.3	4247.6	4258.8
17.5°	4415.8	4434.4	4382.1	4318.6	4286.9	4283.1	4277.5	4296.2	4322.4	4350.4
20°	4475.5	4494.2	4427.0	4341.0	4303.7	4303.7	4305.5	4344.8	4382.1	4423.2
22.5°	4559.6	4574.5	4492.3	4374.7	4320.5	4324.2	4339.2	4378.4	4425.1	4481.1
25°	4684.7	4695.9	4595.1	4438.2	4376.5	4387.7	4400.8	4419.5	4464.3	4529.7
27.5°	4886.5	4895.8	4763.2	4550.2	4456.8	4475.5	4494.2	4481.1	4501.7	4557.7
30°	5170.4	5176.0	5007.9	4725.8	4593.2	4602.5	4606.3	4552.1	4512.9	4557.7
32.5°	5506.6	5504.7	5304.9	4938.8	4748.2	4738.9	4707.1	4600.7	4509.1	4548.4
35°	6027.8	6007.2	5749.4	5237.6	4923.8	4865.9	4791.2	4654.8	4527.8	4539.0
37.5°	6890.7	6827.2	6470.5	5727.0	5185.3	5037.8	4927.6	4742.6	4568.9	4535.3
40°	7863.9	7783.6	7391.3	6397.6	5577.6	5340.4	5162.9	4867.8	4636.2	4552.1
42.5°	9018.3	8904.4	8482.2	7187.7	6074.5	5730.8	5463.7	5026.6	4735.2	4606.3
45°	10436.0	10284.7	9687.0	8078.7	6700.2	6242.6	5885.8	5267.5	4886.5	4710.9
47.5°	11868.7	11906.1	11056.2	9098.6	7451.1	6873.9	6414.4	5629.9	5106.9	4879.0
50°	13391.1	13417.2	12417.9	10228.7	8302.9	7587.5	7008.4	6035.2	5413.2	5118.1
52.5°	14579.1	14582.8	13654.5	11411.1	9190.1	8372.0	7649.1	6498.5	5768.1	5435.6
55°	15322.5	15313.2	14521.2	12530.0	10210.0	9195.7	8358.9	7025.2	6201.5	5809.2
57.5°	15862.3	15834.3	15118.9	13492.0	11297.2	10168.9	9162.1	7623.0	6713.3	6253.8
60°	16067.8	16051.0	15524.2	14323.2	12440.3	11244.8	10088.6	8291.7	7294.2	6778.7
62.5°	16146.3	16178.0	15922.1	15128.2	13663.8	12436.6	11106.6	9091.1	7948.0	7372.7
65°	16422.7	16480.6	16428.3	16181.7	15046.1	13831.9	12457.1	10041.9	8661.5	8009.6
67.5°	16970.0	17027.9	17050.3	17442.6	16734.7	15570.9	14142.0	11226.2	9496.5	8670.9
70°	16956.9	16940.1	17336.1	18445.7	18849.1	17978.7	16413.4	12683.1	10492.1	9220.0
72.5°	15434.6	15300.1	16235.9	18434.5	20608.7	20492.9	19187.2	14562.3	11351.3	9287.3
75°	11579.2	11220.6	12873.7	16613.2	20902.0	21920.0	20950.5	15727.8	11147.7	8205.8
77.5°	4951.8	4591.3	6539.6	12298.4	18707.2	20491.0	19332.9	13721.7	8898.7	5426.3
80°	1296.3	1294.5	1976.3	5575.7	12722.4	15132.0	13275.3	8861.4	5084.5	1938.9
82.5°	536.1	523.0	726.6	2168.6	6216.4	8491.5	6930.0	3952.5	1836.2	524.9
85°	199.9	198.0	353.0	749.0	2192.9	3502.3	2534.8	1010.5	457.6	255.9
87.5°	56.0	54.2	76.6	259.6	534.2	810.7	433.4	166.2	128.9	100.9
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°
4027.2	0°	4027.2	4027.2	4027.2	4027.2	4027.2	4027.2	4027.2	4027.2	4027.2	4027.2
4034.7	2.5°	4040.3	4049.6	4066.5	4079.5	4096.3	4115.0	4141.2	4158.0	4174.8	4186.0
4044.0	5°	4057.1	4077.7	4120.6	4163.6	4214.0	4260.7	4314.9	4354.1	4385.9	4395.2
4077.7	7.5°	4094.5	4128.1	4200.9	4273.8	4354.1	4430.7	4509.1	4576.4	4630.6	4651.1
4137.4	10°	4159.8	4204.7	4307.4	4410.1	4516.6	4634.3	4735.2	4832.3	4908.9	4940.6
4208.4	12.5°	4242.0	4298.1	4432.6	4574.5	4722.1	4884.6	5015.4	5134.9	5230.2	5273.1
4307.4	15°	4348.5	4421.4	4593.2	4783.7	5000.4	5226.4	5392.7	5525.3	5631.8	5684.1
4410.1	17.5°	4464.3	4561.4	4778.1	5065.8	5375.9	5672.9	5867.1	5964.3	6074.5	6124.9
4505.4	20°	4576.4	4695.9	5006.0	5424.4	5837.2	6152.9	6309.8	6336.0	6343.4	6349.0
4595.1	22.5°	4692.2	4852.8	5291.8	5876.5	6319.2	6537.7	6560.1	6448.0	6291.1	6218.3
4682.9	25°	4819.2	5032.2	5665.4	6375.2	6733.8	6760.0	6588.1	6315.4	6018.4	5882.1
4753.8	27.5°	4942.5	5239.5	6113.7	6851.5	7032.7	6802.9	6433.1	6046.4	5687.8	5544.0
4804.3	30°	5065.8	5476.7	6608.7	7268.1	7169.1	6696.5	6188.4	5756.9	5396.4	5245.1
4849.1	32.5°	5190.9	5753.2	7178.4	7568.8	7144.8	6470.5	5883.9	5431.9	5114.4	4955.6
4888.3	35°	5332.9	6093.1	7718.2	7733.2	6982.3	6138.0	5482.3	5043.4	4766.9	4639.9
4935.0	37.5°	5517.8	6524.6	8194.5	7774.3	6698.3	5650.4	4983.6	4583.9	4356.0	4298.1
5004.1	40°	5747.6	7043.9	8558.8	7708.9	6278.1	5058.3	4438.2	4118.8	3989.9	4002.9
5097.5	42.5°	6046.4	7624.8	8814.7	7540.8	5693.4	4447.5	3960.0	3818.0	3879.7	3932.0
5237.6	45°	6435.0	8228.2	8973.5	7255.0	5032.2	3930.1	3677.9	3711.5	3758.2	3763.8
5463.7	47.5°	6931.8	8839.0	9078.1	6823.5	4357.8	3565.9	3498.6	3506.1	3496.7	3457.5
5801.7	50°	7552.0	9433.0	9171.5	6251.9	3784.4	3338.0	3248.3	3222.2	3093.3	2966.2
6251.9	52.5°	8258.1	9978.4	9210.7	5542.1	3338.0	3147.4	3001.7	2837.4	2596.4	2557.2
6817.9	55°	9042.6	10482.7	9109.8	4669.8	2962.5	2902.7	2682.3	2484.3	2458.2	2424.6
7563.2	57.5°	9980.3	11026.3	8904.4	3696.6	2577.7	2616.9	2402.1	2424.6	2377.9	2325.6
8521.4	60°	11005.8	11588.5	8543.8	2809.3	2179.9	2260.2	2329.3	2327.4	2314.3	2271.4
9532.0	62.5°	11928.5	11958.4	7834.0	2151.8	1830.6	1983.7	2172.4	2170.5	2159.3	2135.0
10587.3	65°	12477.7	11902.4	6649.8	1694.2	1542.9	1755.8	1959.4	1974.4	1976.3	1974.4
11381.2	67.5°	12380.5	11246.7	5024.7	1348.6	1305.7	1524.2	1748.4	1768.9	1783.9	1787.6
11482.1	70°	11282.2	9806.6	3276.3	1075.9	1094.6	1320.6	1548.5	1569.0	1582.1	1597.1
9963.5	72.5°	8794.1	7210.2	1875.4	870.4	909.7	1145.0	1350.5	1374.8	1382.3	1410.3
6933.7	75°	5359.0	4240.2	1012.4	685.5	747.2	978.8	1154.4	1182.4	1195.5	1229.1
3405.2	77.5°	2547.8	1836.2	577.2	534.2	601.5	799.5	975.1	1006.8	971.3	990.0
939.6	80°	861.1	681.8	364.2	407.2	459.5	623.9	780.8	812.5	737.8	734.1
311.9	82.5°	300.7	276.5	231.6	270.8	297.0	446.4	590.3	631.4	549.2	547.3
140.1	85°	117.7	112.1	128.9	147.6	177.5	274.6	388.5	409.1	338.1	272.7
41.1	87.5°	24.3	26.2	31.8	33.6	54.2	95.3	140.1	171.8	136.4	115.8
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>
4027.2
4178.5
4398.9
4653.0
4942.5
5273.1
5680.3
6123.0
6364.0
6238.8
5902.6
5560.8
5261.9
4976.1
4667.9
4339.2
4047.8
3980.5
3801.2
3487.4
2983.1
2570.3
2430.2
2316.2
2256.4
2125.7
1974.4
1791.3
1604.5
1421.5
<i>1232.8</i>
975.1
726.6
521.1
269.0
106.5
0.0

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