

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: P944452

Luminaire Tested: **GALN-SB9B-930-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944452
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-930-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 3000K, 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: 35368 lumens
Efficiency: N/A
Efficacy: 107.3 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

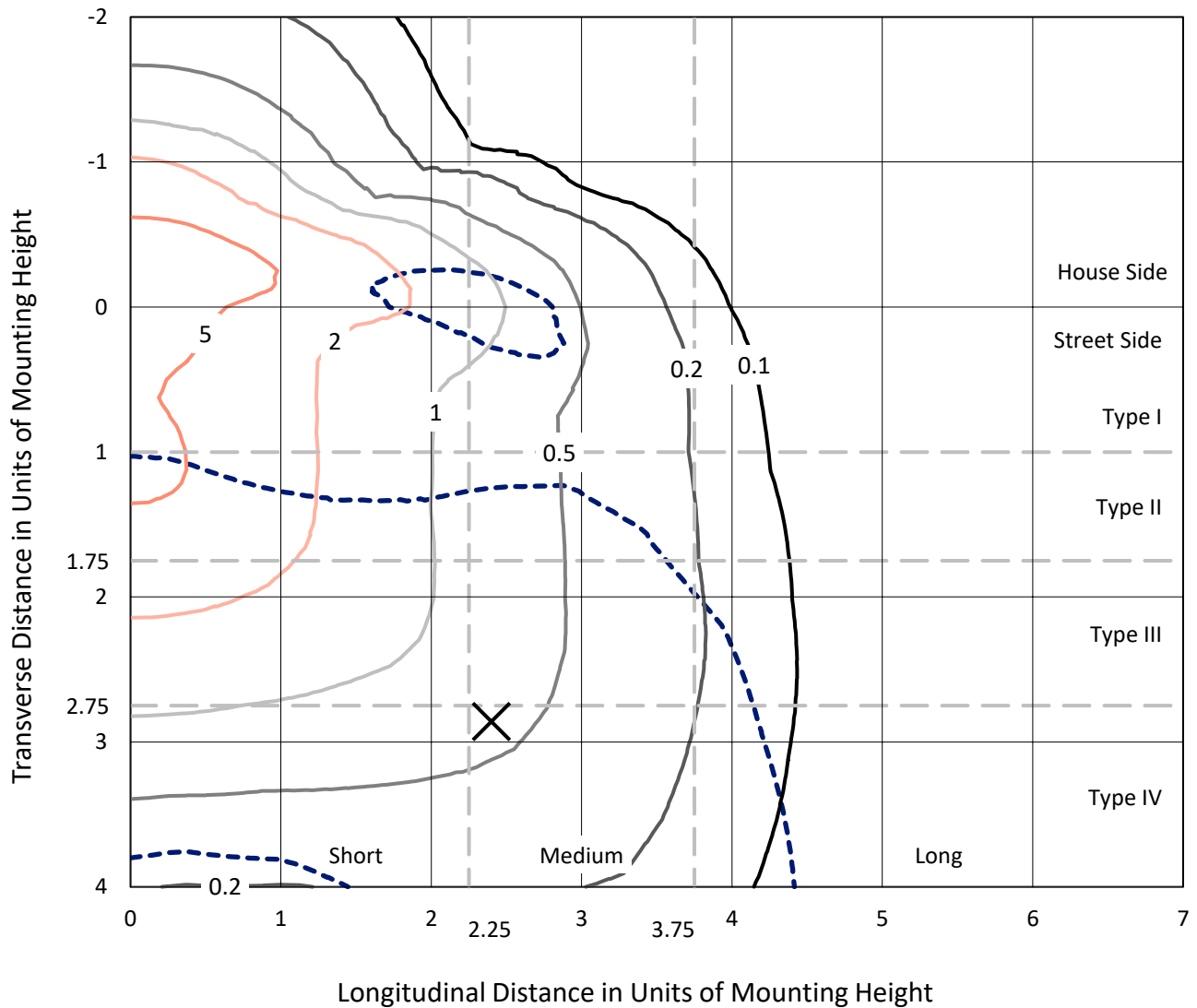
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

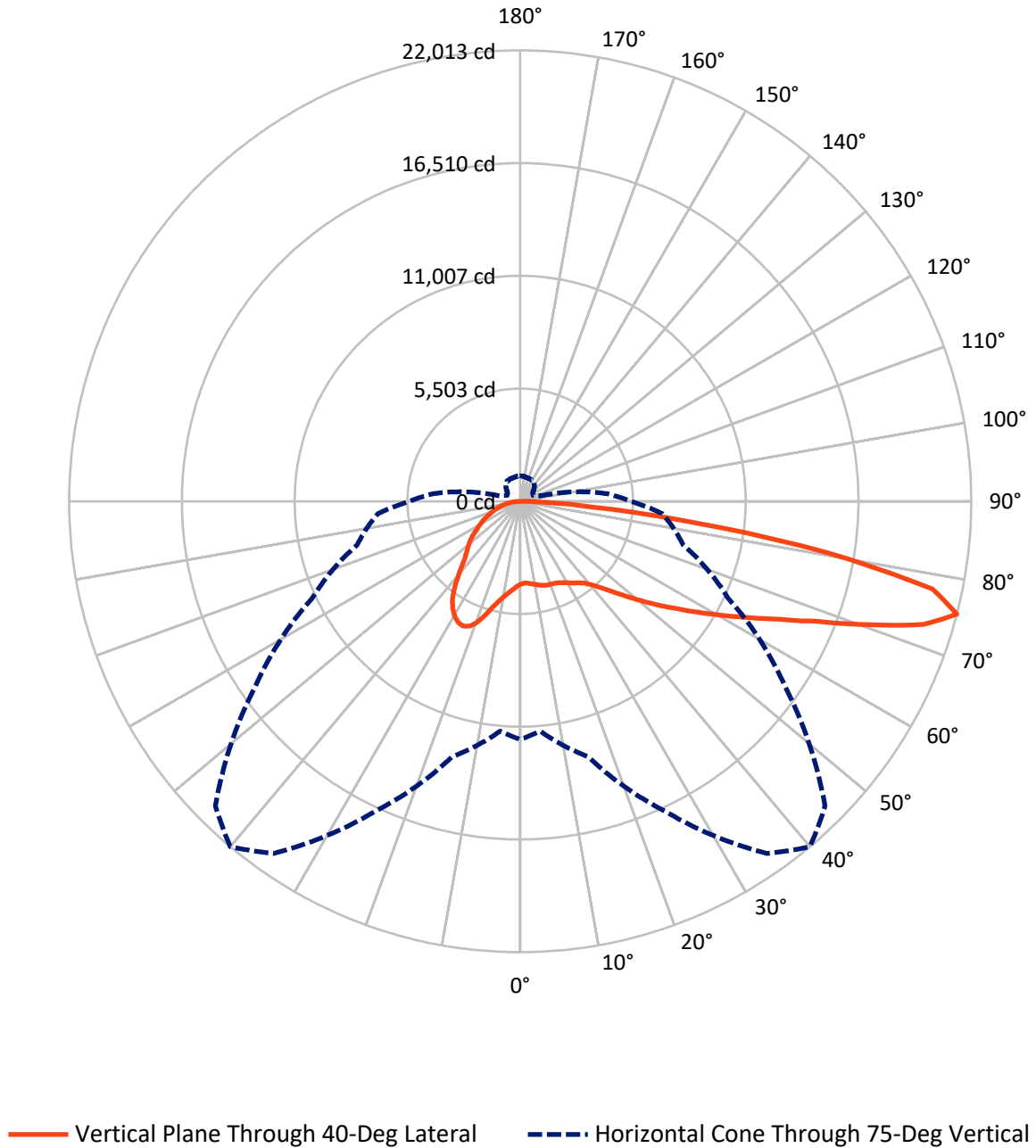
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10958.2	0.0	10958.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	24409.8	0.0	24409.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	35368.0	0.0	35368.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.7	1.1
10°-20°	1355.4	3.8
20°-30°	2474.9	7.0
30°-40°	3510.1	9.9
40°-50°	4739.7	13.4
50°-60°	6376.1	18.0
60°-70°	8092.8	22.9
70°-80°	7344.7	20.8
80°-90°	1070.6	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°	35368.0	100.0
0°-180°	35368.0	100.0

Coefficient of Utilization



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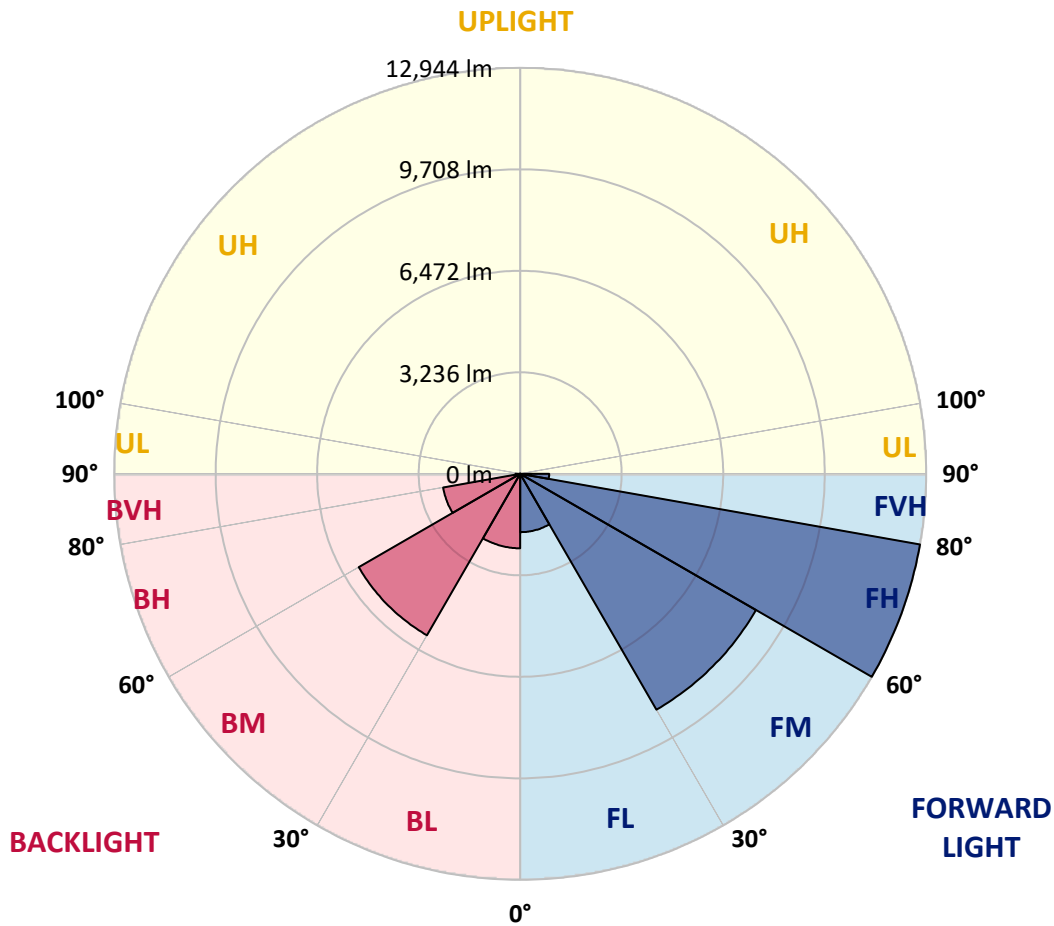
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1860.4	5.3			
FM (30°-60°)	8682.1	24.5			
FH (60°-80°)	12944.1	36.6			G5
FVH (80°-90°)	923.2	2.6			G5
BL (0°-30°)	2373.6	6.7	B3/2500		
BM (30°-60°)	5943.8	16.8	B4/8500		
BH (60°-80°)	2493.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	147.4	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°	4044.4	4044.4	4044.4	4044.4	4044.4	4044.4	4044.4	4044.4	4044.4	4044.4
2.5°	3982.5	4005.0	3999.4	3991.9	3991.9	3993.7	3991.9	4005.0	4018.1	4031.2
5°	4023.7	4046.3	4035.0	4025.6	4018.1	4016.2	4010.6	4008.7	4016.2	4033.1
7.5°	4104.4	4126.9	4110.0	4093.2	4078.1	4070.6	4063.1	4051.9	4046.3	4055.6
10°	4194.4	4217.0	4196.3	4166.3	4141.9	4132.5	4125.0	4113.8	4106.3	4111.9
12.5°	4284.5	4307.0	4278.9	4237.6	4205.7	4200.1	4190.7	4186.9	4185.1	4183.2
15°	4368.9	4387.7	4352.0	4303.2	4269.5	4260.1	4250.7	4256.4	4265.7	4277.0
17.5°	4434.6	4453.3	4400.8	4337.0	4305.1	4301.4	4295.7	4314.5	4340.8	4368.9
20°	4494.6	4513.3	4445.8	4359.5	4322.0	4322.0	4323.9	4363.3	4400.8	4442.1
22.5°	4579.0	4594.0	4511.5	4393.3	4338.9	4342.6	4357.6	4397.0	4443.9	4500.2
25°	4704.7	4715.9	4614.6	4457.1	4395.2	4406.4	4419.6	4438.3	4483.3	4549.0
27.5°	4907.3	4916.7	4783.5	4569.6	4475.8	4494.6	4513.3	4500.2	4520.8	4577.1
30°	5192.4	5198.0	5029.2	4746.0	4612.8	4622.1	4625.9	4571.5	4532.1	4577.1
32.5°	5530.1	5528.2	5327.5	4959.8	4768.5	4759.1	4727.2	4620.3	4528.4	4567.7
35°	6053.4	6032.8	5773.9	5259.9	4944.8	4886.6	4811.6	4674.7	4547.1	4558.4
37.5°	6920.1	6856.3	6498.0	5751.4	5207.4	5059.2	4948.5	4762.8	4588.4	4554.6
40°	7897.4	7816.8	7422.8	6424.9	5601.4	5363.1	5184.9	4888.5	4655.9	4571.5
42.5°	9056.7	8942.3	8518.3	7218.4	6100.3	5755.2	5486.9	5048.0	4755.3	4625.9
45°	10480.5	10328.5	9728.3	8113.1	6728.7	6269.2	5910.9	5290.0	4907.3	4730.9
47.5°	11919.3	11956.8	11103.3	9137.4	7482.8	6903.2	6441.7	5653.9	5128.6	4899.8
50°	13448.1	13474.4	12470.8	10272.3	8338.2	7619.8	7038.3	6060.9	5436.3	5139.9
52.5°	14641.2	14644.9	13712.6	11459.7	9229.3	8407.7	7681.7	6526.2	5792.7	5458.8
55°	15387.8	15378.4	14583.0	12583.3	10253.5	9234.9	8394.5	7055.2	6227.9	5834.0
57.5°	15929.9	15901.8	15183.3	13549.4	11345.3	10212.2	9201.1	7655.4	6741.9	6280.4
60°	16136.2	16119.4	15590.4	14384.2	12493.3	11292.7	10131.6	8327.0	7325.3	6807.5
62.5°	16215.0	16246.9	15989.9	15192.7	13722.0	12489.5	11153.9	9129.9	7981.8	7404.1
65°	16492.7	16550.8	16498.3	16250.7	15110.1	13890.8	12510.2	10084.7	8698.4	8043.7
67.5°	17042.3	17100.4	17123.0	17516.9	16805.9	15637.3	14202.2	11274.0	9536.9	8707.8
70°	17029.2	17012.3	17410.0	18524.2	18929.4	18055.3	16483.3	12737.2	10536.8	9259.3
72.5°	15500.3	15365.3	16305.1	18513.0	20696.5	20580.2	19268.9	14624.3	11399.7	9326.8
75°	11628.5	11268.4	12928.5	16684.0	20991.0	22013.3	21039.8	15794.8	11195.2	8240.7
77.5°	4972.9	4610.9	6567.4	12350.7	18786.8	20578.3	19415.3	13780.1	8936.6	5449.4
80°	1301.9	1300.0	1984.7	5599.5	12776.6	15196.4	13331.8	8899.1	5106.1	1947.2
82.5°	538.4	525.2	729.7	2177.9	6242.9	8527.7	6959.5	3969.3	1844.0	527.1
85°	200.7	198.8	354.5	752.2	2202.3	3517.3	2545.6	1014.8	459.6	257.0
87.5°	56.3	54.4	76.9	260.7	536.5	814.1	435.2	167.0	129.4	101.3
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°
4044.4	0°	4044.4	4044.4	4044.4	4044.4	4044.4	4044.4	4044.4	4044.4	4044.4	4044.4
4051.9	2.5°	4057.5	4066.9	4083.8	4096.9	4113.8	4132.5	4158.8	4175.7	4192.6	4203.8
4061.3	5°	4074.4	4095.0	4138.2	4181.3	4232.0	4278.9	4333.3	4372.7	4404.5	4413.9
4095.0	7.5°	4111.9	4145.7	4218.8	4292.0	4372.7	4449.6	4528.4	4595.9	4650.3	4670.9
4155.1	10°	4177.6	4222.6	4325.8	4428.9	4535.9	4654.0	4755.3	4852.9	4929.8	4961.7
4226.3	12.5°	4260.1	4316.4	4451.4	4594.0	4742.2	4905.4	5036.7	5156.8	5252.4	5295.6
4325.8	15°	4367.0	4440.2	4612.8	4804.1	5021.7	5248.7	5415.6	5548.8	5655.8	5708.3
4428.9	17.5°	4483.3	4580.9	4798.5	5087.4	5398.8	5697.0	5892.1	5989.7	6100.3	6151.0
4524.6	20°	4595.9	4715.9	5027.3	5447.5	5862.1	6179.1	6336.7	6363.0	6370.5	6376.1
4614.6	22.5°	4712.2	4873.5	5314.3	5901.5	6346.1	6565.5	6588.1	6475.5	6317.9	6244.8
4702.8	25°	4839.7	5053.6	5689.5	6402.3	6762.5	6788.8	6616.2	6342.3	6044.1	5907.1
4774.1	27.5°	4963.6	5261.8	6139.7	6880.7	7062.7	6831.9	6460.5	6072.2	5712.0	5567.6
4824.7	30°	5087.4	5500.1	6636.8	7299.0	7199.6	6725.0	6214.8	5781.4	5419.4	5267.4
4869.8	32.5°	5213.0	5777.7	7209.0	7601.0	7175.2	6498.0	5909.0	5455.0	5136.1	4976.7
4909.2	35°	5355.6	6119.1	7751.1	7766.1	7012.0	6164.1	5505.7	5064.9	4787.2	4659.7
4956.1	37.5°	5541.3	6552.4	8229.4	7807.4	6726.9	5674.5	5004.8	4603.4	4374.5	4316.4
5025.5	40°	5772.1	7073.9	8595.2	7741.7	6304.8	5079.9	4457.1	4136.3	4006.9	4020.0
5119.3	42.5°	6072.2	7657.3	8852.2	7572.9	5717.7	4466.4	3976.8	3834.3	3896.2	3948.7
5259.9	45°	6462.4	8263.2	9011.7	7285.9	5053.6	3946.8	3693.6	3727.4	3774.3	3779.9
5486.9	47.5°	6961.4	8876.6	9116.7	6852.6	4376.4	3581.0	3513.5	3521.0	3511.6	3472.2
5826.5	50°	7584.1	9473.1	9210.5	6278.5	3800.5	3352.2	3262.1	3235.9	3106.4	2978.9
6278.5	52.5°	8293.2	10020.9	9249.9	5565.7	3352.2	3160.8	3014.5	2849.4	2607.5	2568.1
6846.9	55°	9081.1	10527.4	9148.6	4689.7	2975.1	2915.1	2693.8	2494.9	2468.6	2434.9
7595.4	57.5°	10022.8	11073.3	8942.3	3712.3	2588.7	2628.1	2412.4	2434.9	2388.0	2335.5
8557.7	60°	11052.6	11637.9	8580.2	2821.3	2189.1	2269.8	2339.2	2337.3	2324.2	2281.1
9572.6	62.5°	11979.3	12009.3	7867.4	2161.0	1838.4	1992.2	2181.6	2179.8	2168.5	2144.1
10632.4	65°	12530.8	11953.1	6678.1	1701.4	1549.5	1763.3	1967.8	1982.8	1984.7	1982.8
11429.7	67.5°	12433.3	11294.6	5046.1	1354.4	1311.2	1530.7	1755.8	1776.4	1791.5	1795.2
11531.0	70°	11330.3	9848.3	3290.3	1080.5	1099.3	1326.2	1555.1	1575.7	1588.9	1603.9
10005.9	72.5°	8831.6	7240.9	1883.4	874.2	913.5	1149.9	1356.3	1380.6	1388.1	1416.3
6963.2	75°	5381.9	4258.2	1016.7	688.4	750.3	983.0	1159.3	1187.4	1200.6	1234.3
3419.7	77.5°	2558.7	1844.0	579.6	536.5	604.0	802.9	979.2	1011.1	975.5	994.2
943.6	80°	864.8	684.7	365.8	408.9	461.5	626.5	784.1	816.0	741.0	737.2
313.3	82.5°	302.0	277.6	232.6	272.0	298.3	448.3	592.8	634.0	551.5	549.6
140.7	85°	118.2	112.6	129.4	148.2	178.2	275.8	390.2	410.8	339.5	273.9
41.3	87.5°	24.4	26.3	31.9	33.8	54.4	95.7	140.7	172.6	136.9	116.3
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>
4044.4
4196.3
4417.7
4672.8
4963.6
5295.6
5704.5
6149.1
6391.1
6265.4
5927.8
5584.5
5284.3
4997.3
4687.8
4357.6
4065.0
3997.5
3817.4
3502.3
2995.8
2581.2
2440.5
2326.1
2266.1
2134.7
1982.8
1799.0
1611.4
1427.5
<i>1238.1</i>
979.2
729.7
523.4
270.1
106.9
0.0

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