

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: P944242

Luminaire Tested: **GALN-SB9A-835-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944242
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-835-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3500K, 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: 37566 lumens
Efficiency: N/A
Efficacy: 147.0 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

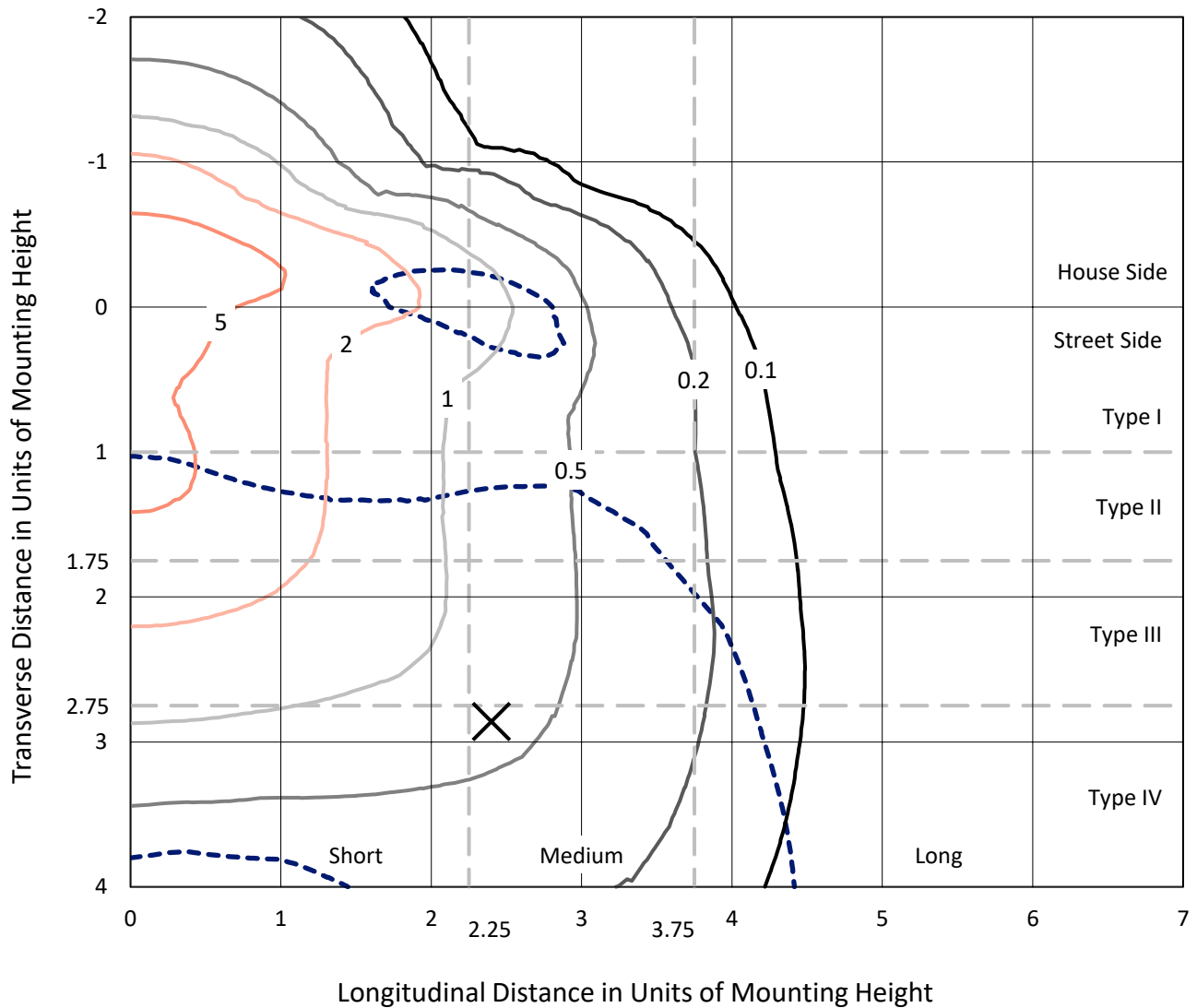
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

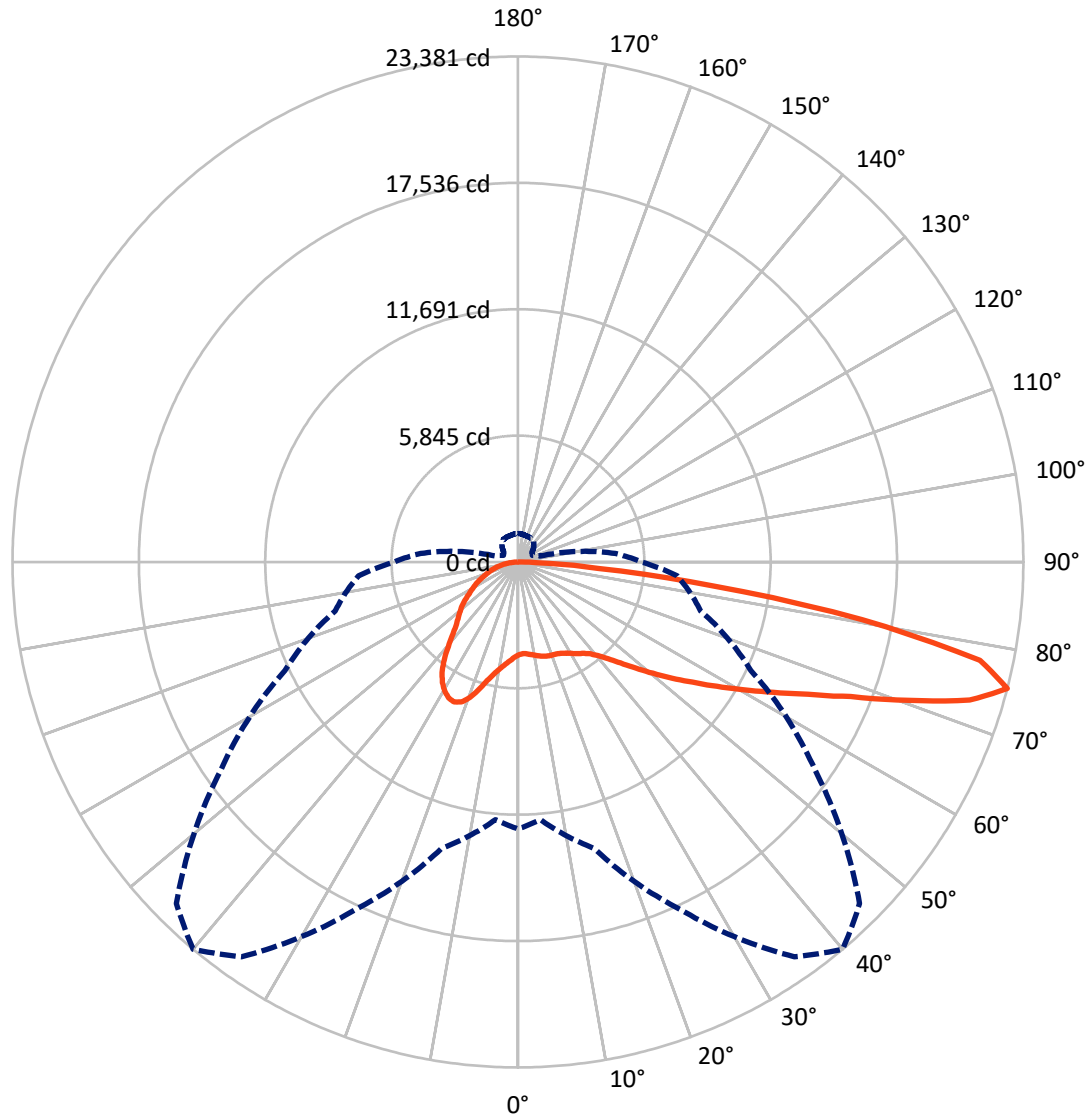
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	11639.2	0.0	11639.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	25926.8	0.0	25926.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	37566.0	0.0	37566.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.8	1.1
10°-20°	1439.7	3.8
20°-30°	2628.7	7.0
30°-40°	3728.2	9.9
40°-50°	5034.2	13.4
50°-60°	6772.4	18.0
60°-70°	8595.7	22.9
70°-80°	7801.1	20.8
80°-90°	1137.2	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°	37566.0	100.0
0°-180°	37566.0	100.0

Coefficient of Utilization



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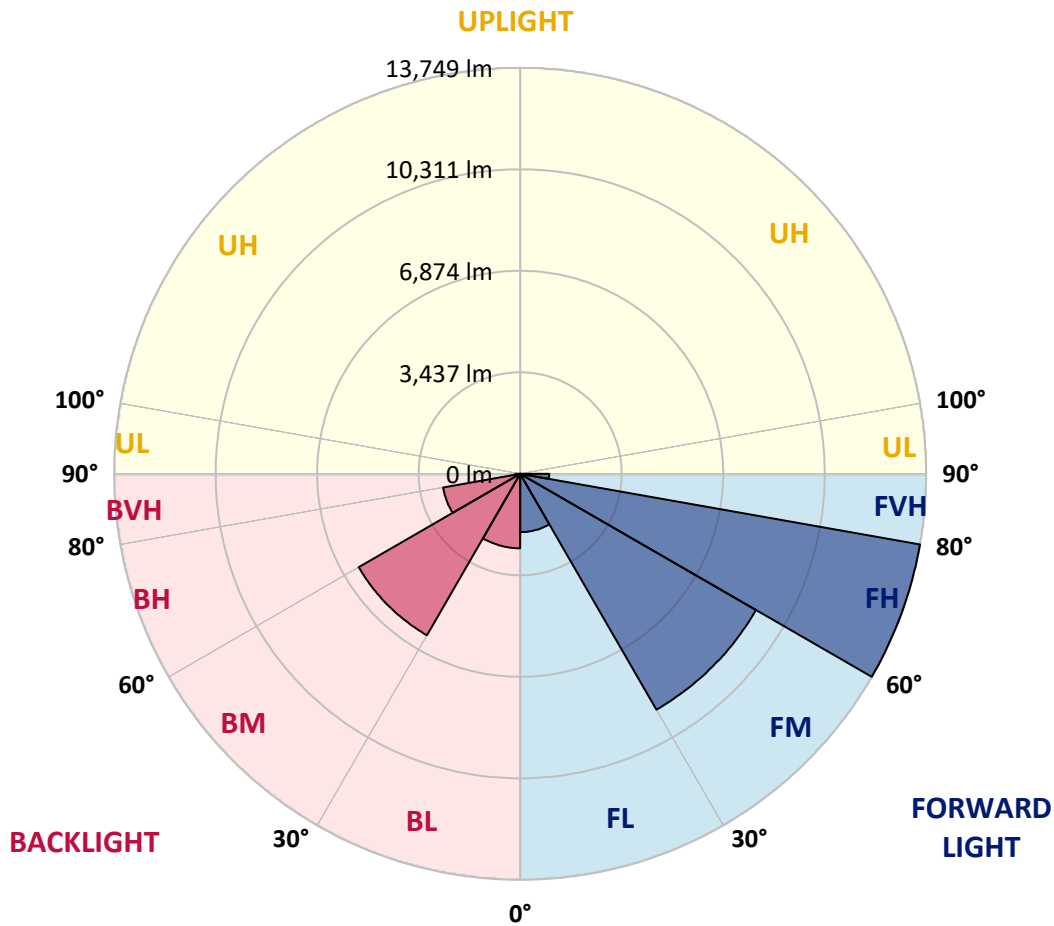
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1976.0	5.3			
FM (30°-60°)	9221.6	24.5			
FH (60°-80°)	13748.6	36.6			G5
FVH (80°-90°)	980.6	2.6			G5
BL (0°-30°)	2521.2	6.7	B4/5000		
BM (30°-60°)	6313.2	16.8	B4/8500		
BH (60°-80°)	2648.3	7.0	B4/5000		G4/5000
BVH (80°-90°)	156.6	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°	4295.7	4295.7	4295.7	4295.7	4295.7	4295.7	4295.7	4295.7	4295.7	4295.7
2.5°	4230.0	4253.9	4247.9	4239.9	4239.9	4241.9	4239.9	4253.9	4267.8	4281.8
5°	4273.8	4297.7	4285.8	4275.8	4267.8	4265.8	4259.9	4257.9	4265.8	4283.8
7.5°	4359.5	4383.4	4365.5	4347.5	4331.6	4323.6	4315.6	4303.7	4297.7	4307.7
10°	4455.1	4479.0	4457.1	4425.2	4399.3	4389.4	4381.4	4369.4	4361.5	4367.5
12.5°	4550.8	4574.7	4544.8	4500.9	4467.1	4461.1	4451.1	4447.1	4445.2	4443.2
15°	4640.4	4660.3	4622.5	4570.7	4534.8	4524.9	4514.9	4520.9	4530.8	4542.8
17.5°	4710.2	4730.1	4674.3	4606.5	4572.7	4568.7	4562.7	4582.6	4610.5	4640.4
20°	4773.9	4793.8	4722.1	4630.5	4590.6	4590.6	4592.6	4634.4	4674.3	4718.1
22.5°	4863.6	4879.5	4791.8	4666.3	4608.5	4612.5	4628.5	4670.3	4720.1	4779.9
25°	4997.1	5009.0	4901.4	4734.1	4668.3	4680.3	4694.2	4714.1	4762.0	4831.7
27.5°	5212.2	5222.2	5080.7	4853.6	4754.0	4773.9	4793.8	4779.9	4801.8	4861.6
30°	5515.1	5521.1	5341.8	5040.9	4899.4	4909.4	4913.4	4855.6	4813.8	4861.6
32.5°	5873.7	5871.8	5658.6	5268.0	5064.8	5054.8	5021.0	4907.4	4809.8	4851.6
35°	6429.6	6407.7	6132.8	5586.8	5252.1	5190.3	5110.6	4965.2	4829.7	4841.7
37.5°	7350.1	7282.4	6901.8	6108.9	5531.0	5373.6	5256.1	5058.8	4873.5	4837.7
40°	8388.2	8302.5	7884.1	6824.1	5949.5	5696.4	5507.1	5192.3	4945.3	4855.6
42.5°	9619.5	9498.0	9047.7	7666.9	6479.4	6112.8	5827.9	5361.7	5050.9	4913.4
45°	11131.8	10970.4	10332.8	8617.3	7146.9	6658.8	6278.2	5618.7	5212.2	5025.0
47.5°	12660.0	12699.9	11793.3	9705.2	7947.9	7332.2	6842.1	6005.2	5447.4	5204.3
50°	14283.9	14311.8	13245.8	10910.7	8856.4	8093.3	7475.7	6437.6	5774.1	5459.3
52.5°	15551.1	15555.1	14564.8	12171.9	9802.9	8930.2	8159.1	6931.7	6152.7	5798.0
55°	16344.1	16334.1	15489.3	13365.4	10890.7	9808.8	8916.2	7493.6	6614.9	6196.5
57.5°	16919.9	16890.0	16126.9	14391.5	12050.3	10846.9	9773.0	8131.2	7160.9	6670.7
60°	17139.1	17121.1	16559.3	15278.1	13269.7	11994.5	10761.2	8844.5	7780.5	7230.6
62.5°	17222.7	17256.6	16983.6	16136.9	14574.8	13265.7	11847.1	9697.3	8477.9	7864.2
65°	17517.6	17579.4	17523.6	17260.6	16049.2	14754.1	13287.6	10711.4	9239.0	8543.6
67.5°	18101.4	18163.2	18187.1	18605.5	17850.4	16609.1	15084.8	11974.6	10129.6	9249.0
70°	18087.5	18069.5	18491.9	19675.4	20105.8	19177.3	17507.7	13528.7	11191.6	9834.7
72.5°	16463.6	16320.2	17318.4	19663.5	21982.7	21859.2	20466.4	15533.1	12108.1	9906.5
75°	12351.2	11968.6	13732.0	17720.9	22295.5	23381.4	22347.3	16776.4	11890.9	8752.8
77.5°	5282.0	4897.4	6975.6	13118.3	19954.4	21857.2	20621.9	14636.5	9492.0	5788.1
80°	1382.8	1380.8	2108.0	5947.5	13570.6	16140.8	14160.3	9452.2	5423.4	2068.2
82.5°	571.8	557.9	775.1	2313.2	6630.9	9057.7	7392.0	4216.0	1958.6	559.9
85°	213.2	211.2	376.6	799.0	2339.1	3735.8	2703.8	1077.9	488.2	273.0
87.5°	59.8	57.8	81.7	277.0	569.8	864.7	462.2	177.3	137.5	107.6
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°
4295.7	0°	4295.7	4295.7	4295.7	4295.7	4295.7	4295.7	4295.7	4295.7	4295.7	4295.7
4303.7	2.5°	4309.7	4319.6	4337.6	4351.5	4369.4	4389.4	4417.3	4435.2	4453.1	4465.1
4313.7	5°	4327.6	4349.5	4395.3	4441.2	4495.0	4544.8	4602.6	4644.4	4678.3	4688.2
4349.5	7.5°	4367.5	4403.3	4481.0	4558.7	4644.4	4726.1	4809.8	4881.5	4939.3	4961.2
4413.3	10°	4437.2	4485.0	4594.6	4704.2	4817.7	4943.3	5050.9	5154.5	5236.2	5270.0
4489.0	12.5°	4524.9	4584.6	4728.1	4879.5	5036.9	5210.3	5349.7	5477.2	5578.9	5624.7
4594.6	15°	4638.4	4716.1	4899.4	5102.7	5333.8	5574.9	5752.2	5893.7	6007.2	6063.0
4704.2	17.5°	4762.0	4865.6	5096.7	5403.5	5734.3	6051.1	6258.3	6361.9	6479.4	6533.2
4805.8	20°	4881.5	5009.0	5339.8	5786.1	6226.4	6563.1	6730.5	6758.4	6766.4	6772.3
4901.4	22.5°	5005.0	5176.4	5644.6	6268.2	6740.5	6973.6	6997.5	6877.9	6710.6	6632.9
4995.1	25°	5140.5	5367.7	6043.1	6800.2	7182.8	7210.7	7027.4	6736.5	6419.7	6274.2
5070.8	27.5°	5272.0	5588.8	6521.3	7308.3	7501.6	7256.5	6862.0	6449.6	6067.0	5913.6
5124.6	30°	5403.5	5841.9	7049.3	7752.6	7647.0	7142.9	6601.0	6140.7	5756.2	5594.8
5172.4	32.5°	5537.0	6136.7	7657.0	8073.4	7621.1	6901.8	6276.2	5794.0	5455.3	5286.0
5214.2	35°	5688.4	6499.4	8232.8	8248.7	7447.8	6547.2	5847.8	5379.6	5084.7	4949.2
5264.1	37.5°	5885.7	6959.6	8740.9	8292.6	7144.9	6027.2	5315.9	4889.5	4646.4	4584.6
5337.8	40°	6130.8	7513.5	9129.4	8222.8	6696.6	5395.6	4734.1	4393.4	4255.9	4269.8
5437.4	42.5°	6449.6	8133.2	9402.4	8043.5	6073.0	4744.0	4224.0	4072.6	4138.3	4194.1
5586.8	45°	6864.0	8776.7	9571.7	7738.7	5367.7	4192.1	3923.1	3959.0	4008.8	4014.8
5827.9	47.5°	7394.0	9428.3	9683.3	7278.4	4648.4	3803.6	3731.9	3739.8	3729.9	3688.0
6188.5	50°	8055.5	10061.9	9782.9	6668.7	4036.7	3560.5	3464.9	3437.0	3299.5	3164.0
6668.7	52.5°	8808.6	10643.7	9824.8	5911.6	3560.5	3357.3	3201.9	3026.5	2769.5	2727.7
7272.4	55°	9645.5	11181.6	9717.2	4981.1	3160.0	3096.3	2861.2	2650.0	2622.1	2586.2
8067.4	57.5°	10645.7	11761.4	9498.0	3943.1	2749.6	2791.4	2562.3	2586.2	2536.4	2480.6
9089.6	60°	11739.5	12361.2	9113.5	2996.6	2325.2	2410.9	2484.6	2482.6	2468.6	2422.8
10167.5	62.5°	12723.8	12755.7	8356.3	2295.3	1952.6	2116.0	2317.2	2315.2	2303.3	2277.4
11293.2	65°	13309.6	12695.9	7093.1	1807.2	1645.8	1872.9	2090.1	2106.0	2108.0	2106.0
12140.0	67.5°	13206.0	11996.5	5359.7	1438.5	1392.7	1625.8	1864.9	1886.9	1902.8	1906.8
12247.6	70°	12034.4	10460.4	3494.8	1147.7	1167.6	1408.7	1651.7	1673.7	1687.6	1703.5
10627.7	72.5°	9380.5	7690.9	2000.4	928.5	970.3	1221.4	1440.5	1466.4	1474.4	1504.3
7396.0	75°	5716.3	4522.9	1079.9	731.2	797.0	1044.0	1231.3	1261.2	1275.2	1311.0
3632.2	77.5°	2717.7	1958.6	615.7	569.8	641.6	852.8	1040.1	1073.9	1036.1	1056.0
1002.2	80°	918.5	727.2	388.5	434.4	490.1	665.5	832.8	866.7	787.0	783.0
332.7	82.5°	320.8	294.9	247.1	288.9	316.8	476.2	629.6	673.4	585.8	583.8
149.4	85°	125.5	119.5	137.5	157.4	189.3	292.9	414.4	436.3	360.6	290.9
43.8	87.5°	25.9	27.9	33.9	35.9	57.8	101.6	149.4	183.3	145.4	123.5
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>
4295.7
4457.1
4692.2
4963.2
5272.0
5624.7
6059.0
6531.3
6788.3
6654.8
6296.1
5931.5
5612.7
5307.9
4979.1
4628.5
4317.6
4245.9
4054.6
3719.9
3181.9
2741.6
2592.2
2470.6
2406.9
2267.4
2106.0
1910.8
1711.5
1516.3
<i>1315.0</i>
1040.1
775.1
555.9
286.9
113.6
0.0

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