

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: P943522

Luminaire Tested: **GALN-SB8A-750-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943522
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-SB8A-750-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 5000K, 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: 38040 lumens
Efficiency: N/A
Efficacy: 167.5 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

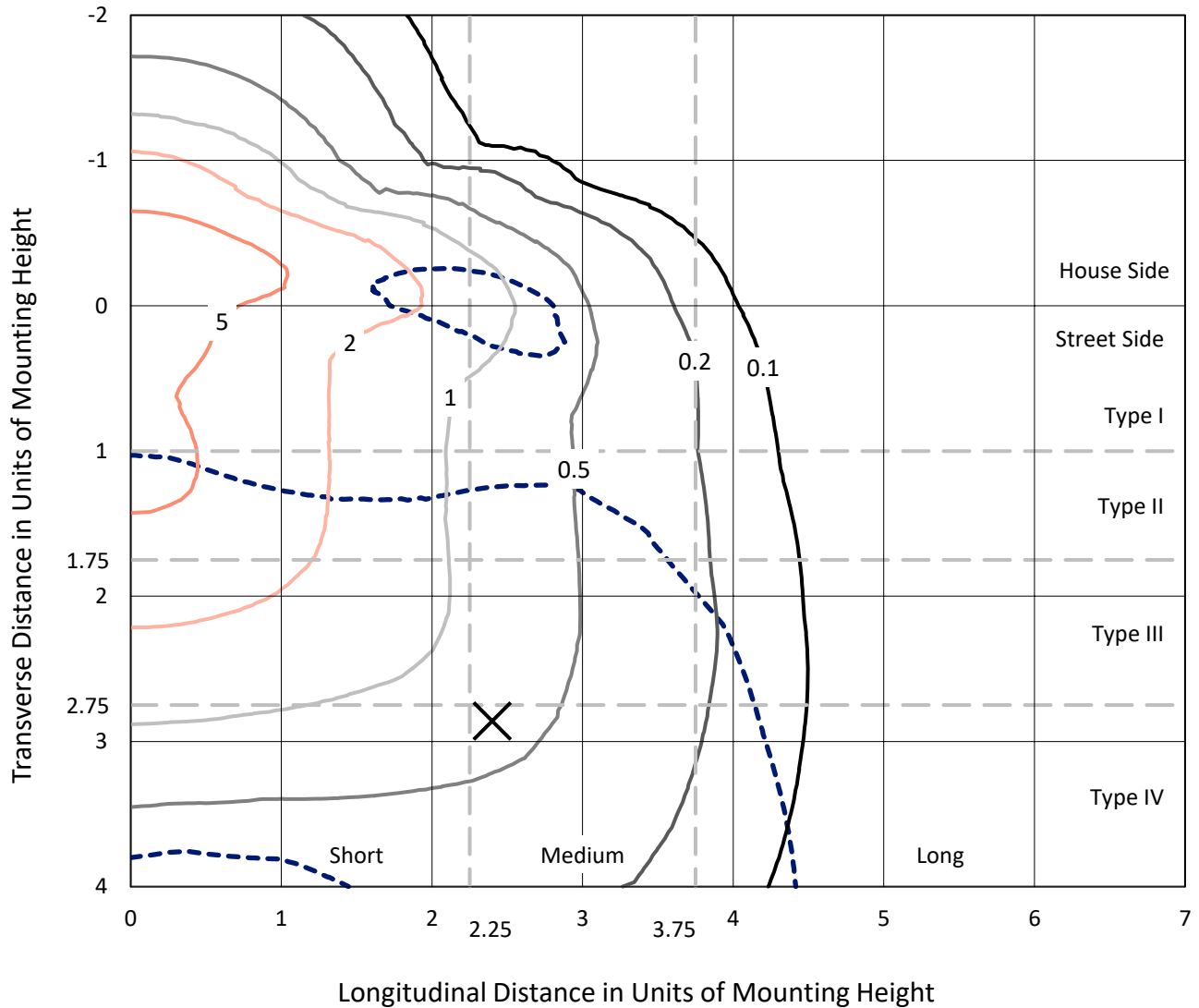
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

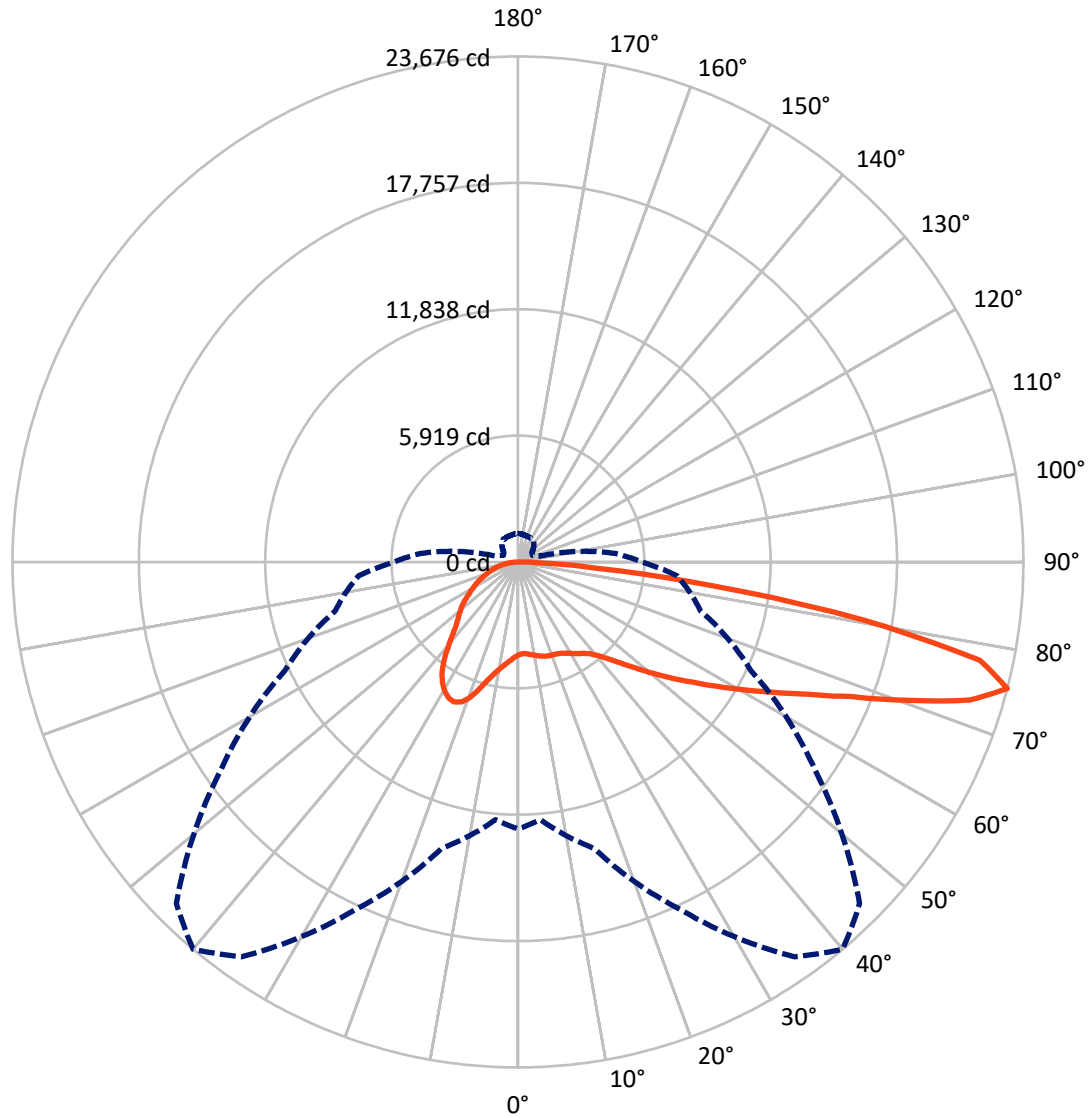
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	11786.1	0.0	11786.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	26253.9	0.0	26253.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	38040.0	0.0	38040.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.2	1.1
10°-20°	1457.8	3.8
20°-30°	2661.9	7.0
30°-40°	3775.3	9.9
40°-50°	5097.7	13.4
50°-60°	6857.8	18.0
60°-70°	8704.2	22.9
70°-80°	7899.6	20.8
80°-90°	1151.5	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°	38040.0	100.0
0°-180°	38040.0	100.0



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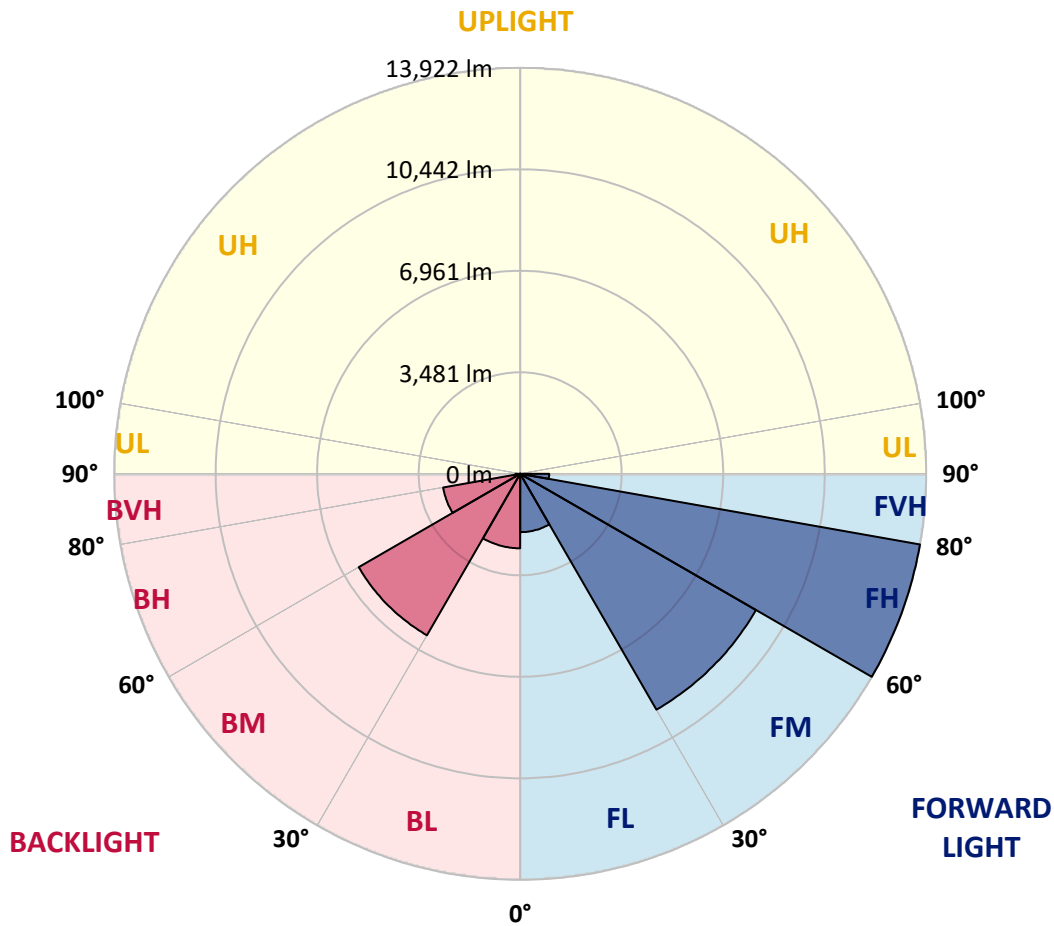
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2000.9	5.3			
FM (30°-60°)	9338.0	24.5			
FH (60°-80°)	13922.1	36.6			G5
FVH (80°-90°)	993.0	2.6			G5
BL (0°-30°)	2553.0	6.7	B4/5000		
BM (30°-60°)	6392.9	16.8	B4/8500		
BH (60°-80°)	2681.7	7.0	B4/5000		G4/5000
BVH (80°-90°)	158.5	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°	4349.9	4349.9	4349.9	4349.9	4349.9	4349.9	4349.9	4349.9	4349.9	4349.9
2.5°	4283.3	4307.6	4301.5	4293.4	4293.4	4295.4	4293.4	4307.6	4321.7	4335.8
5°	4327.7	4351.9	4339.8	4329.7	4321.7	4319.7	4313.6	4311.6	4319.7	4337.8
7.5°	4414.5	4438.7	4420.5	4402.4	4386.2	4378.2	4370.1	4358.0	4351.9	4362.0
10°	4511.3	4535.5	4513.3	4481.1	4454.8	4444.8	4436.7	4424.6	4416.5	4422.6
12.5°	4608.2	4632.4	4602.1	4557.7	4523.4	4517.4	4507.3	4503.3	4501.2	4499.2
15°	4699.0	4719.1	4680.8	4628.4	4592.0	4581.9	4571.9	4577.9	4588.0	4600.1
17.5°	4769.6	4789.8	4733.3	4664.7	4630.4	4626.3	4620.3	4640.5	4668.7	4699.0
20°	4834.1	4854.3	4781.7	4688.9	4648.5	4648.5	4650.5	4692.9	4733.3	4777.7
22.5°	4924.9	4941.1	4852.3	4725.2	4666.7	4670.7	4686.9	4729.2	4779.7	4840.2
25°	5060.1	5072.2	4963.3	4793.8	4727.2	4739.3	4753.4	4773.6	4822.0	4892.7
27.5°	5278.0	5288.1	5144.9	4914.8	4814.0	4834.1	4854.3	4840.2	4862.4	4922.9
30°	5584.7	5590.7	5409.2	5104.5	4961.3	4971.3	4975.4	4916.9	4874.5	4922.9
32.5°	5947.9	5945.8	5730.0	5334.5	5128.7	5118.6	5084.3	4969.3	4870.5	4912.8
35°	6510.8	6488.6	6210.1	5657.3	5318.4	5255.8	5175.1	5027.8	4890.6	4902.7
37.5°	7442.9	7374.3	6988.9	6185.9	5600.8	5441.4	5322.4	5122.7	4935.0	4898.7
40°	8494.1	8407.3	7983.6	6910.2	6024.5	5768.3	5576.6	5257.8	5007.7	4916.9
42.5°	9740.9	9617.9	9161.9	7763.7	6561.2	6190.0	5901.5	5429.3	5114.6	4975.4
45°	11272.3	11108.9	10463.2	8726.1	7237.1	6742.8	6357.4	5689.6	5278.0	5088.4
47.5°	12819.8	12860.1	11942.1	9827.7	8048.2	7424.7	6928.4	6081.0	5516.1	5269.9
50°	14464.1	14492.4	13412.9	11048.3	8968.2	8195.5	7570.0	6518.8	5847.0	5528.2
52.5°	15747.3	15751.3	14748.6	12325.5	9926.5	9042.8	8262.0	7019.2	6230.3	5871.2
55°	16550.3	16540.2	15684.7	13534.0	11028.1	9932.6	9028.7	7588.2	6698.4	6274.7
57.5°	17133.4	17103.1	16330.4	14573.1	12202.4	10983.8	9896.3	8233.8	7251.2	6754.9
60°	17355.3	17337.2	16768.2	15470.9	13437.2	12145.9	10897.0	8956.1	7878.7	7321.8
62.5°	17440.1	17474.3	17197.9	16340.5	14758.7	13433.1	11996.6	9819.6	8584.8	7963.4
65°	17738.7	17801.2	17744.7	17478.4	16251.7	14940.3	13455.3	10846.6	9355.6	8651.4
67.5°	18329.8	18392.4	18416.6	18840.3	18075.6	16818.6	15275.2	12125.7	10257.4	9365.7
70°	18315.7	18297.5	18725.3	19923.7	20359.5	19419.3	17728.6	13699.4	11332.8	9958.8
72.5°	16671.3	16526.1	17536.9	19911.6	22260.1	22135.0	20724.7	15729.1	12260.9	10031.5
75°	12507.0	12119.7	13905.2	17944.4	22576.8	23676.4	22629.3	16988.1	12041.0	8863.3
77.5°	5348.6	4959.2	7063.6	13283.8	20206.2	22133.0	20882.1	14821.2	9611.8	5861.1
80°	1400.2	1398.2	2134.6	6022.5	13741.8	16344.5	14339.0	9571.4	5491.9	2094.3
82.5°	579.0	564.9	784.8	2342.4	6714.5	9172.0	7485.3	4269.2	1983.3	566.9
85°	215.9	213.9	381.3	809.1	2368.7	3783.0	2737.9	1091.5	494.3	276.4
87.5°	60.5	58.5	82.7	280.4	577.0	875.6	468.1	179.6	139.2	108.9
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°
4349.9	0°	4349.9	4349.9	4349.9	4349.9	4349.9	4349.9	4349.9	4349.9	4349.9	4349.9
4358.0	2.5°	4364.0	4374.1	4392.3	4406.4	4424.6	4444.8	4473.0	4491.2	4509.3	4521.4
4368.1	5°	4382.2	4404.4	4450.8	4497.2	4551.7	4602.1	4660.6	4703.0	4737.3	4747.4
4404.4	7.5°	4422.6	4458.9	4537.6	4616.2	4703.0	4785.7	4870.5	4943.1	5001.6	5023.8
4469.0	10°	4493.2	4541.6	4652.6	4763.5	4878.5	5005.6	5114.6	5219.5	5302.2	5336.5
4545.6	12.5°	4581.9	4642.5	4787.7	4941.1	5100.5	5276.0	5417.2	5546.4	5649.3	5695.7
4652.6	15°	4697.0	4775.6	4961.3	5167.0	5401.1	5645.2	5824.8	5968.0	6083.0	6139.5
4763.5	17.5°	4822.0	4927.0	5161.0	5471.7	5806.6	6127.4	6337.3	6442.2	6561.2	6615.7
4866.4	20°	4943.1	5072.2	5407.1	5859.1	6305.0	6645.9	6815.4	6843.7	6851.7	6857.8
4963.3	22.5°	5068.2	5241.7	5715.8	6347.3	6825.5	7061.6	7085.8	6964.7	6795.2	6716.6
5058.1	25°	5205.4	5435.4	6119.4	6886.0	7273.4	7301.7	7116.0	6821.5	6500.7	6353.4
5134.8	27.5°	5338.5	5659.3	6603.6	7400.5	7596.2	7348.1	6948.6	6530.9	6143.6	5988.2
5189.2	30°	5471.7	5915.6	7138.2	7850.4	7743.5	7233.1	6684.3	6218.2	5828.8	5665.4
5237.7	32.5°	5606.9	6214.2	7753.6	8175.3	7717.3	6988.9	6355.4	5867.2	5524.2	5352.7
5280.0	35°	5760.2	6581.4	8336.7	8352.8	7541.8	6629.8	5921.6	5447.5	5148.9	5011.7
5330.5	37.5°	5960.0	7047.4	8851.2	8397.2	7235.1	6103.2	5382.9	4951.2	4705.0	4642.5
5405.1	40°	6208.1	7608.3	9244.6	8326.6	6781.1	5463.6	4793.8	4448.8	4309.6	4323.7
5506.0	42.5°	6530.9	8235.8	9521.0	8145.0	6149.6	4803.9	4277.3	4124.0	4190.5	4247.0
5657.3	45°	6950.6	8887.5	9692.5	7836.3	5435.4	4245.0	3972.6	4009.0	4059.4	4065.4
5901.5	47.5°	7487.3	9547.2	9805.5	7370.3	4707.0	3851.6	3778.9	3787.0	3776.9	3734.6
6266.6	50°	8157.1	10188.8	9906.4	6752.9	4087.6	3605.4	3508.6	3480.3	3341.1	3203.9
6752.9	52.5°	8919.8	10778.0	9948.7	5986.2	3605.4	3399.6	3242.3	3064.7	2804.5	2762.1
7364.2	55°	9767.2	11322.7	9839.8	5044.0	3199.9	3135.3	2897.3	2683.4	2655.1	2618.8
8169.2	57.5°	10780.0	11909.8	9617.9	3992.8	2784.3	2826.6	2594.6	2618.8	2568.4	2511.9
9204.2	60°	11887.6	12517.1	9228.5	3034.5	2354.5	2441.3	2515.9	2513.9	2499.8	2453.4
10295.8	62.5°	12884.3	12916.6	8461.8	2324.3	1977.2	2142.7	2346.5	2344.4	2332.3	2306.1
11435.7	65°	13477.5	12856.1	7182.6	1830.0	1666.5	1896.5	2116.5	2132.6	2134.6	2132.6
12293.2	67.5°	13372.6	12147.9	5427.3	1456.7	1410.3	1646.4	1888.5	1910.7	1926.8	1930.8
12402.1	70°	12186.2	10592.3	3538.9	1162.1	1182.3	1426.4	1672.6	1694.8	1708.9	1725.0
10761.8	72.5°	9498.8	7787.9	2025.7	940.2	982.6	1236.8	1458.7	1484.9	1493.0	1523.3
7489.3	75°	5788.5	4579.9	1093.5	740.5	807.0	1057.2	1246.9	1277.1	1291.3	1327.6
3678.1	77.5°	2752.0	1983.3	623.4	577.0	649.7	863.5	1053.2	1087.5	1049.1	1069.3
1014.8	80°	930.1	736.4	393.4	439.8	496.3	673.9	843.4	877.7	796.9	792.9
336.9	82.5°	324.8	298.6	250.2	292.6	320.8	482.2	637.6	681.9	593.2	591.2
151.3	85°	127.1	121.1	139.2	159.4	191.7	296.6	419.7	441.9	365.2	294.6
44.4	87.5°	26.2	28.2	34.3	36.3	58.5	102.9	151.3	185.6	147.3	125.1
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>
4349.9
4513.3
4751.4
5025.8
5338.5
5695.7
6135.5
6613.7
6873.9
6738.8
6375.6
6006.4
5683.6
5374.9
5042.0
4686.9
4372.1
4299.5
4105.8
3766.8
3222.1
2776.2
2624.9
2501.8
2437.2
2296.0
2132.6
1934.9
1733.1
1535.4
<i>1331.6</i>
1053.2
784.8
562.9
290.5
115.0
0.0

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