

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: P942992

Luminaire Tested: **GALN-SB7B-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942992
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-SB7B-735-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 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: 39696 lumens
Efficiency: N/A
Efficacy: 154.6 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

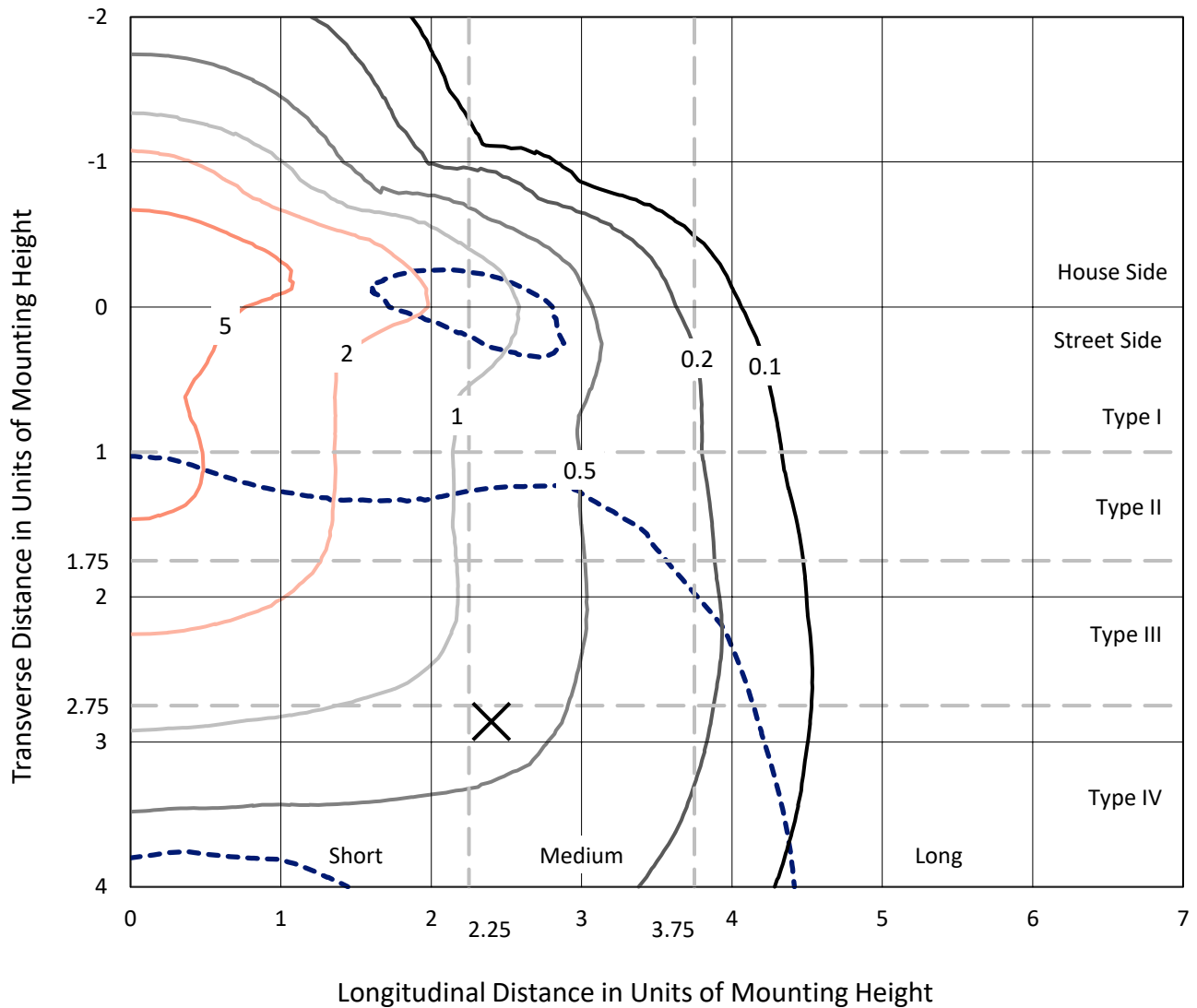
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P942992
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Iso-Footcandle Lines of Horizontal Illumination

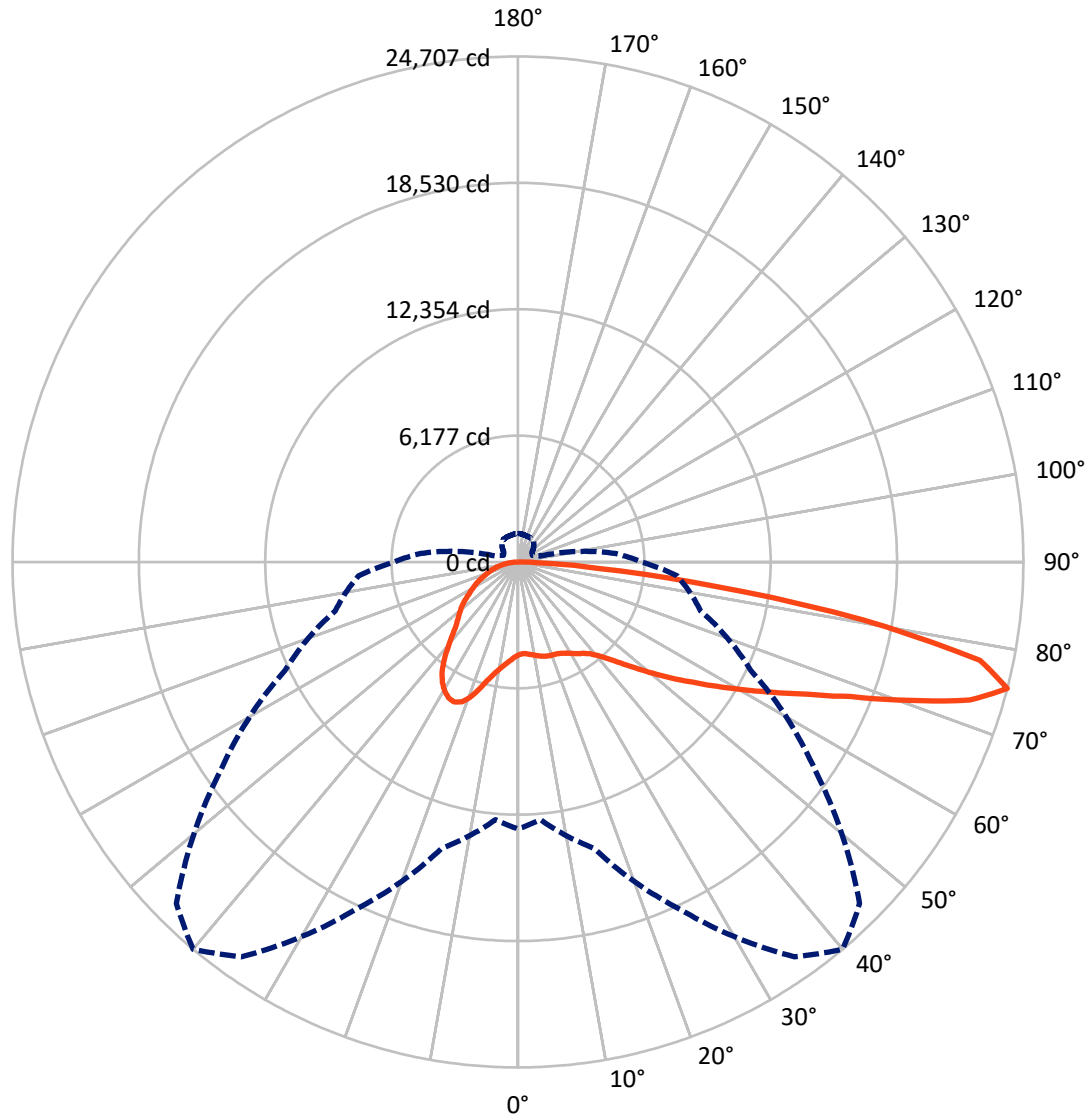
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Medium - N/A

REPORT NUMBER: P942992
CATALOG NUMBER: GALN-SB7B-735-U-SL4

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	12299.1	0.0	12299.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	27396.9	0.0	27396.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	39696.0	0.0	39696.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.1	1.1
10°-20°	1521.3	3.8
20°-30°	2777.7	7.0
30°-40°	3939.6	9.9
40°-50°	5319.7	13.4
50°-60°	7156.4	18.0
60°-70°	9083.1	22.9
70°-80°	8243.5	20.8
80°-90°	1201.6	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°	39696.0	100.0
0°-180°	39696.0	100.0

Coefficient of Utilization



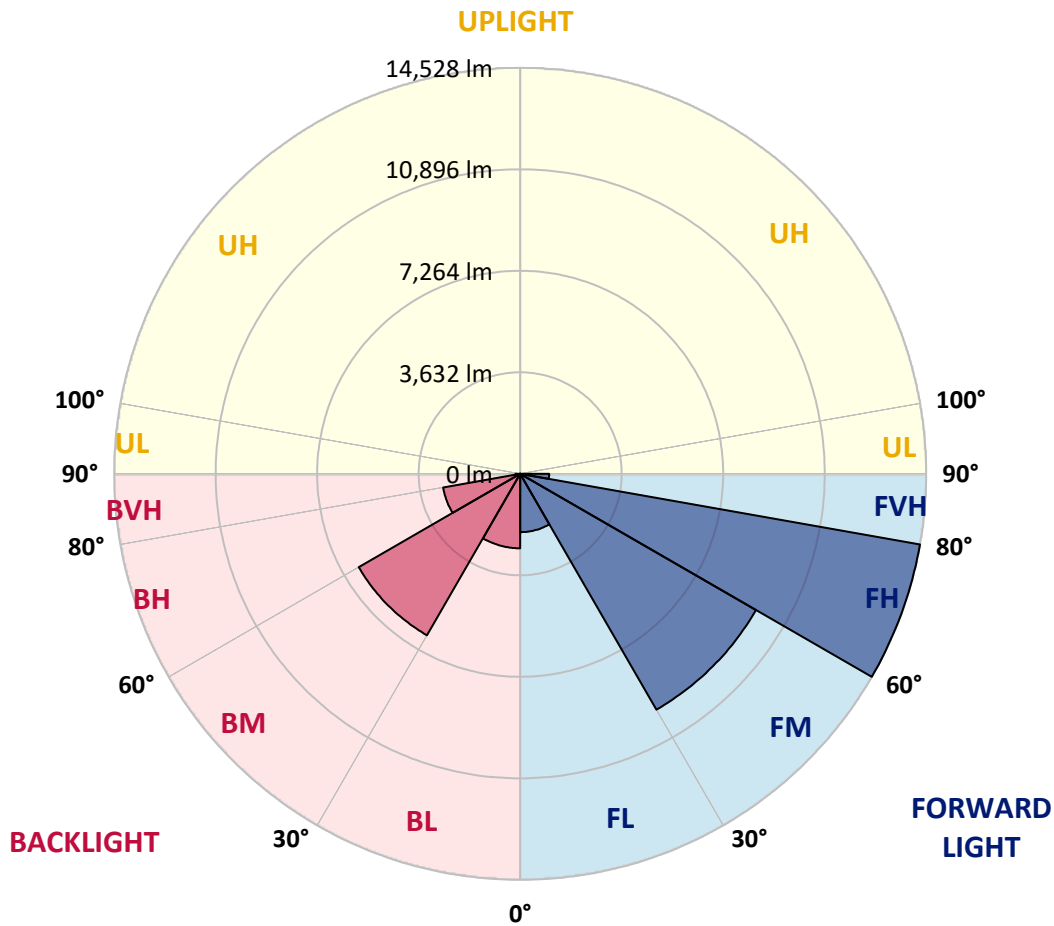
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2088.0	5.3			
FM (30°-60°)	9744.5	24.5			
FH (60°-80°)	14528.1	36.6			G5
FVH (80°-90°)	1036.2	2.6			G5
BL (0°-30°)	2664.1	6.7	B4/5000		
BM (30°-60°)	6671.2	16.8	B4/8500		
BH (60°-80°)	2798.4	7.0	B4/5000		G4/5000
BVH (80°-90°)	165.4	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



REPORT NUMBER: P942992

CATALOG NUMBER: GALN-SB7B-735-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3
2.5°	4469.8	4495.1	4488.8	4480.3	4480.3	4482.4	4480.3	4495.1	4509.8	4524.6
5°	4516.1	4541.4	4528.8	4518.2	4509.8	4507.7	4501.4	4499.3	4507.7	4526.7
7.5°	4606.7	4631.9	4613.0	4594.0	4577.2	4568.8	4560.3	4547.7	4541.4	4551.9
10°	4707.7	4733.0	4709.8	4676.1	4648.8	4638.2	4629.8	4617.2	4608.8	4615.1
12.5°	4808.8	4834.0	4802.5	4756.1	4720.4	4714.0	4703.5	4699.3	4697.2	4695.1
15°	4903.5	4924.6	4884.6	4829.8	4791.9	4781.4	4770.9	4777.2	4787.7	4800.4
17.5°	4977.2	4998.3	4939.3	4867.7	4831.9	4827.7	4821.4	4842.5	4871.9	4903.5
20°	5044.6	5065.6	4989.9	4893.0	4850.9	4850.9	4853.0	4897.2	4939.3	4985.6
22.5°	5139.3	5156.2	5063.5	4930.9	4869.8	4874.1	4890.9	4935.1	4987.7	5050.9
25°	5280.4	5293.0	5179.3	5002.5	4933.0	4945.6	4960.4	4981.4	5032.0	5105.6
27.5°	5507.8	5518.3	5368.8	5128.8	5023.5	5044.6	5065.6	5050.9	5074.1	5137.2
30°	5827.8	5834.1	5644.6	5326.7	5177.2	5187.8	5192.0	5130.9	5086.7	5137.2
32.5°	6206.8	6204.7	5979.4	5566.7	5352.0	5341.5	5305.7	5185.7	5082.5	5126.7
35°	6794.2	6771.0	6480.5	5903.6	5549.9	5484.6	5400.4	5246.7	5103.5	5116.2
37.5°	7766.9	7695.3	7293.2	6455.2	5844.7	5678.3	5554.1	5345.7	5149.9	5112.0
40°	8863.8	8773.3	8331.2	7211.1	6286.8	6019.4	5819.4	5486.7	5225.7	5130.9
42.5°	10165.0	10036.5	9560.7	8101.7	6846.8	6459.4	6158.4	5665.7	5337.2	5192.0
45°	11763.0	11592.5	10918.7	9106.0	7552.1	7036.3	6634.2	5937.3	5507.8	5309.9
47.5°	13377.9	13420.0	12462.0	10255.5	8398.5	7748.0	7230.0	6345.7	5756.2	5499.4
50°	15093.8	15123.2	13996.8	11529.3	9358.6	8552.2	7899.5	6802.6	6101.5	5768.9
52.5°	16432.8	16437.0	15390.6	12862.0	10358.7	9436.5	8621.7	7324.8	6501.5	6126.8
55°	17270.8	17260.3	16367.6	14123.2	11508.2	10365.0	9421.8	7918.5	6990.0	6547.9
57.5°	17879.2	17847.7	17041.3	15207.5	12733.6	11461.9	10327.1	8592.2	7566.9	7049.0
60°	18110.8	18091.9	17498.2	16144.4	14022.1	12674.6	11371.4	9346.0	8221.7	7640.6
62.5°	18199.3	18235.1	17946.6	17051.8	15401.2	14017.9	12518.8	10247.1	8958.6	8310.1
65°	18510.9	18576.1	18517.2	18239.3	16959.2	15590.7	14041.1	11318.8	9762.8	9028.1
67.5°	19127.8	19193.0	19218.3	19660.4	18862.5	17550.8	15940.2	12653.6	10704.0	9773.4
70°	19113.0	19094.1	19540.4	20791.0	21245.8	20264.7	18500.3	14295.8	11826.2	10392.4
72.5°	17397.1	17245.5	18300.3	20778.4	23229.1	23098.6	21626.9	16413.9	12794.7	10468.2
75°	13051.5	12647.3	14510.6	18725.6	23559.7	24707.1	23614.4	17727.7	12565.2	9249.1
77.5°	5581.5	5175.1	7371.1	13862.1	21085.8	23096.5	21791.1	15466.4	10030.2	6116.3
80°	1461.2	1459.1	2227.5	6284.7	14340.0	17056.0	14963.2	9988.1	5731.0	2185.4
82.5°	604.3	589.5	819.0	2444.4	7006.8	9571.2	7811.1	4455.1	2069.6	591.6
85°	225.3	223.2	397.9	844.3	2471.8	3947.7	2857.1	1139.0	515.8	288.4
87.5°	63.2	61.1	86.3	292.7	602.2	913.8	488.5	187.4	145.3	113.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942992
 CATALOG NUMBER: GALN-SB7B-735-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4539.3	0°	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3
4547.7	2.5°	4554.0	4564.6	4583.5	4598.2	4617.2	4638.2	4667.7	4686.7	4705.6	4718.3
4558.2	5°	4573.0	4596.1	4644.6	4693.0	4749.8	4802.5	4863.5	4907.7	4943.5	4954.1
4596.1	7.5°	4615.1	4653.0	4735.1	4817.2	4907.7	4994.1	5082.5	5158.3	5219.3	5242.5
4663.5	10°	4688.8	4739.3	4855.1	4970.9	5090.9	5223.6	5337.2	5446.7	5533.0	5568.8
4743.5	12.5°	4781.4	4844.6	4996.2	5156.2	5322.5	5505.7	5653.1	5787.8	5895.2	5943.6
4855.1	15°	4901.4	4983.5	5177.2	5392.0	5636.2	5891.0	6078.4	6227.8	6347.8	6406.8
4970.9	17.5°	5032.0	5141.4	5385.7	5709.9	6059.4	6394.2	6613.1	6722.6	6846.8	6903.7
5078.3	20°	5158.3	5293.0	5642.5	6114.1	6579.4	6935.3	7112.1	7141.6	7150.0	7156.3
5179.3	22.5°	5288.8	5469.9	5964.7	6623.7	7122.6	7369.0	7394.2	7267.9	7091.1	7009.0
5278.3	25°	5432.0	5672.0	6385.7	7185.8	7590.0	7619.5	7425.8	7118.4	6783.7	6630.0
5358.3	27.5°	5570.9	5905.7	6891.0	7722.7	7926.9	7667.9	7251.1	6815.3	6411.0	6248.9
5415.1	30°	5709.9	6173.1	7449.0	8192.2	8080.6	7547.9	6975.3	6488.9	6082.6	5912.0
5465.7	32.5°	5851.0	6484.7	8091.1	8531.2	8053.2	7293.2	6632.1	6122.6	5764.6	5585.7
5509.9	35°	6011.0	6867.9	8699.6	8716.4	7870.1	6918.4	6179.4	5684.6	5373.0	5229.9
5562.5	37.5°	6219.4	7354.2	9236.5	8762.8	7550.0	6368.9	5617.3	5166.7	4909.8	4844.6
5640.4	40°	6478.4	7939.5	9647.0	8689.1	7076.3	5701.5	5002.5	4642.5	4497.2	4511.9
5745.7	42.5°	6815.3	8594.3	9935.5	8499.6	6417.3	5013.0	4463.5	4303.5	4373.0	4431.9
5903.6	45°	7253.2	9274.4	10114.4	8177.5	5672.0	4429.8	4145.6	4183.5	4236.1	4242.4
6158.4	47.5°	7813.2	9962.9	10232.4	7691.1	4912.0	4019.3	3943.5	3951.9	3941.4	3897.1
6539.4	50°	8512.2	10632.4	10337.6	7046.8	4265.6	3762.4	3661.3	3631.9	3486.6	3343.4
7046.8	52.5°	9308.1	11247.2	10381.8	6246.8	3762.4	3547.6	3383.4	3198.1	2926.5	2882.3
7684.8	55°	10192.3	11815.6	10268.1	5263.6	3339.2	3271.8	3023.4	2800.2	2770.7	2732.8
8524.9	57.5°	11249.3	12428.3	10036.5	4166.6	2905.5	2949.7	2707.6	2732.8	2680.2	2621.3
9604.9	60°	12405.1	13062.0	9630.2	3166.6	2457.0	2547.6	2625.5	2623.4	2608.6	2560.2
10744.0	62.5°	13445.2	13478.9	8830.1	2425.4	2063.3	2236.0	2448.6	2446.5	2433.9	2406.5
11933.5	65°	14064.2	13415.8	7495.3	1909.6	1739.1	1979.1	2208.6	2225.4	2227.5	2225.4
12828.3	67.5°	13954.7	12676.7	5663.6	1520.1	1471.7	1718.0	1970.7	1993.8	2010.7	2014.9
12942.0	70°	12716.8	11053.5	3692.9	1212.7	1233.8	1488.5	1745.4	1768.6	1783.3	1800.1
11230.3	72.5°	9912.3	8126.9	2113.8	981.1	1025.3	1290.6	1522.2	1549.6	1558.0	1589.6
7815.3	75°	6040.5	4779.3	1141.1	772.7	842.2	1103.2	1301.2	1332.7	1347.5	1385.4
3838.2	77.5°	2871.8	2069.6	650.6	602.2	677.9	901.1	1099.0	1134.8	1094.8	1115.9
1059.0	80°	970.6	768.5	410.6	459.0	517.9	703.2	880.1	915.9	831.6	827.4
351.6	82.5°	339.0	311.6	261.1	305.3	334.8	503.2	665.3	711.6	619.0	616.9
157.9	85°	132.6	126.3	145.3	166.3	200.0	309.5	437.9	461.1	381.1	307.4
46.3	87.5°	27.4	29.5	35.8	37.9	61.1	107.4	157.9	193.7	153.7	130.5
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>
4539.3
4709.8
4958.3
5244.6
5570.9
5943.6
6402.6
6901.6
7173.2
7032.1
6653.1
6267.8
5931.0
5608.8
5261.5
4890.9
4562.5
4486.7
4284.5
3930.8
3362.4
2897.1
2739.2
2610.7
2543.4
2396.0
2225.4
2019.1
1808.6
1602.2
1389.6
1099.0
819.0
587.4
303.2
120.0
0.0

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