

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: P942842

Luminaire Tested: **GALN-SB7A-750-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942842
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-SB7A-750-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 33456 lumens
Efficiency: N/A
Efficacy: 168.0 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

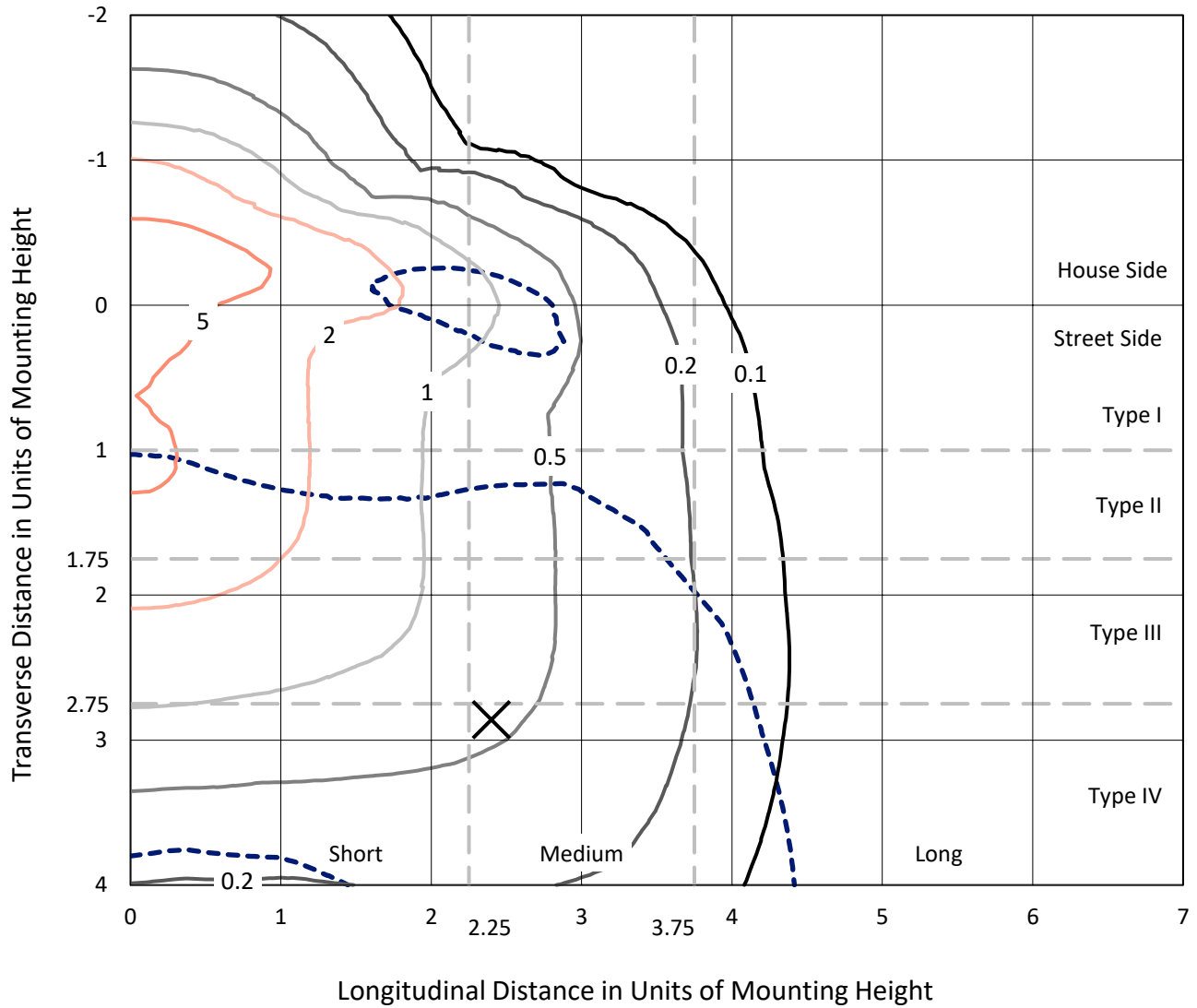
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

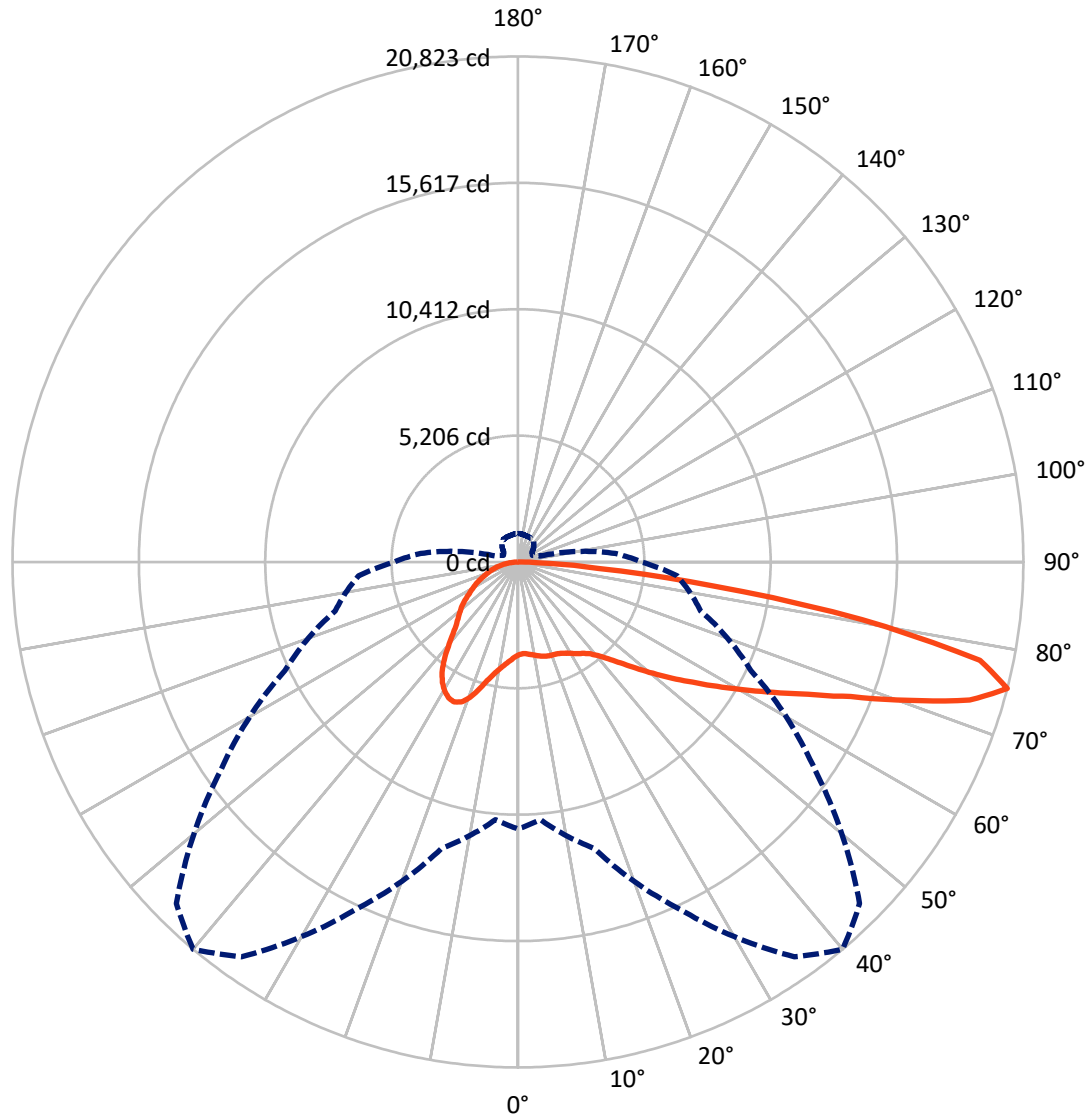
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	10365.8	0.0	10365.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	23090.2	0.0	23090.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	33456.0	0.0	33456.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.9	1.1
10°-20°	1282.2	3.8
20°-30°	2341.1	7.0
30°-40°	3320.3	9.9
40°-50°	4483.4	13.4
50°-60°	6031.4	18.0
60°-70°	7655.3	22.9
70°-80°	6947.6	20.8
80°-90°	1012.7	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°	33456.0	100.0
0°-180°	33456.0	100.0



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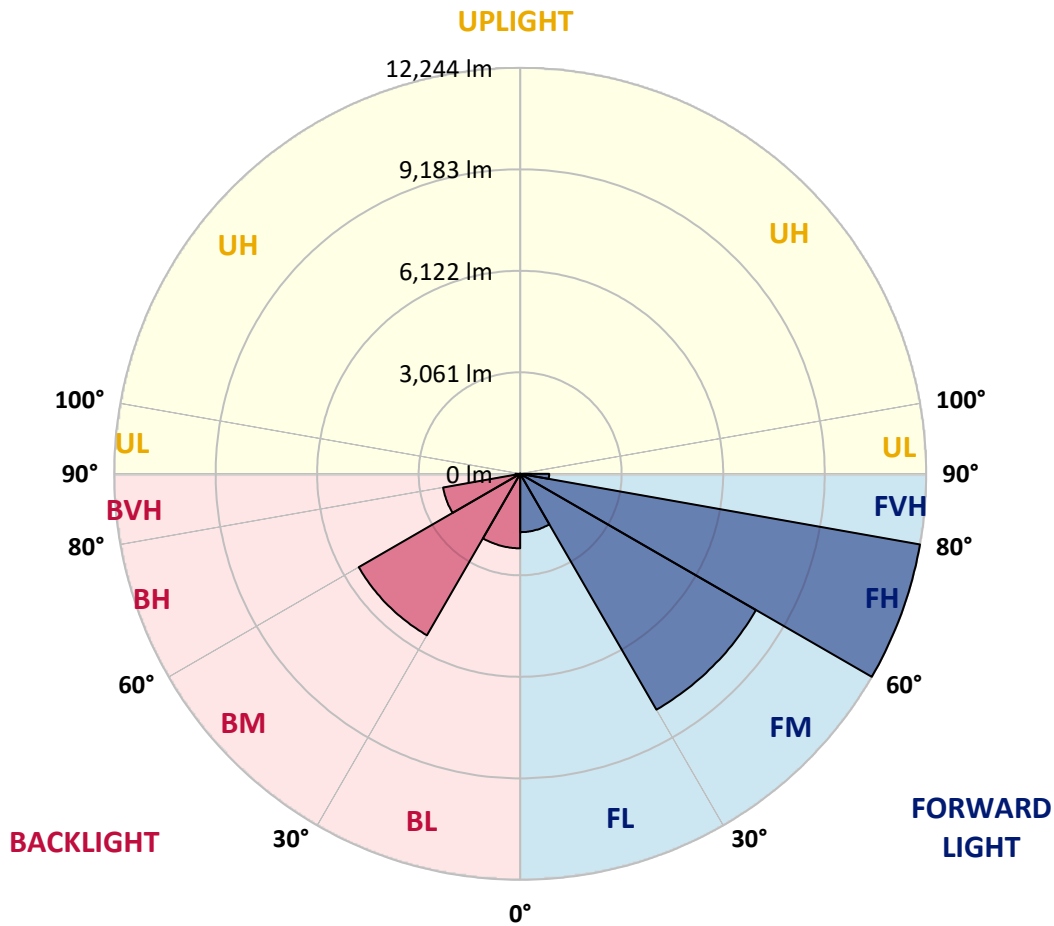
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1759.8	5.3			
FM (30°-60°)	8212.7	24.5			
FH (60°-80°)	12244.4	36.6			G5
FVH (80°-90°)	873.3	2.6			G5
BL (0°-30°)	2245.3	6.7	B3/2500		
BM (30°-60°)	5622.5	16.8	B4/8500		
BH (60°-80°)	2358.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	139.4	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°	3825.7	3825.7	3825.7	3825.7	3825.7	3825.7	3825.7	3825.7	3825.7	3825.7
2.5°	3767.2	3788.5	3783.2	3776.1	3776.1	3777.8	3776.1	3788.5	3800.9	3813.3
5°	3806.2	3827.5	3816.9	3808.0	3800.9	3799.1	3793.8	3792.0	3799.1	3815.1
7.5°	3882.5	3903.8	3887.8	3871.9	3857.7	3850.6	3843.5	3832.8	3827.5	3836.4
10°	3967.7	3989.0	3969.5	3941.1	3918.0	3909.1	3902.0	3891.4	3884.3	3889.6
12.5°	4052.9	4074.2	4047.5	4008.5	3978.3	3973.0	3964.1	3960.6	3958.8	3957.0
15°	4132.7	4150.5	4116.7	4070.6	4038.7	4029.8	4020.9	4026.3	4035.1	4045.8
17.5°	4194.8	4212.6	4162.9	4102.6	4072.4	4068.8	4063.5	4081.3	4106.1	4132.7
20°	4251.6	4269.4	4205.5	4123.8	4088.4	4088.4	4090.1	4127.4	4162.9	4201.9
22.5°	4331.5	4345.7	4267.6	4155.8	4104.3	4107.9	4122.1	4159.3	4203.7	4256.9
25°	4450.3	4461.0	4365.2	4216.1	4157.6	4168.2	4180.6	4198.4	4241.0	4303.1
27.5°	4642.0	4650.9	4524.9	4322.6	4233.9	4251.6	4269.4	4256.9	4276.5	4329.7
30°	4911.7	4917.0	4757.3	4489.4	4363.4	4372.3	4375.8	4324.4	4287.1	4329.7
32.5°	5231.1	5229.3	5039.5	4691.7	4510.7	4501.8	4471.6	4370.5	4283.5	4320.8
35°	5726.2	5706.7	5461.8	4975.6	4677.5	4622.5	4551.5	4422.0	4301.3	4311.9
37.5°	6546.0	6485.7	6146.7	5440.5	4925.9	4785.7	4681.0	4505.4	4340.3	4308.4
40°	7470.5	7394.2	7021.5	6077.5	5298.5	5073.2	4904.6	4624.2	4404.2	4324.4
42.5°	8567.1	8458.9	8057.8	6828.1	5770.5	5444.0	5190.3	4775.1	4498.3	4375.8
45°	9913.9	9770.2	9202.4	7674.5	6365.0	5930.2	5591.3	5004.0	4642.0	4475.2
47.5°	11274.9	11310.4	10503.0	8643.4	7078.3	6530.0	6093.5	5348.2	4851.4	4634.9
50°	12721.1	12746.0	11796.6	9716.9	7887.5	7207.9	6657.8	5733.3	5142.4	4862.0
52.5°	13849.7	13853.2	12971.3	10840.2	8730.3	7953.1	7266.4	6173.4	5479.5	5163.7
55°	14555.9	14547.0	13794.7	11903.1	9699.2	8735.7	7940.7	6673.7	5891.2	5518.6
57.5°	15068.7	15042.1	14362.5	12816.9	10731.9	9660.2	8703.7	7241.6	6377.4	5940.9
60°	15263.9	15247.9	14747.5	13606.6	11817.9	10682.3	9583.9	7876.8	6929.3	6439.5
62.5°	15338.4	15368.6	15125.5	14371.4	12980.2	11814.4	10550.9	8636.3	7550.3	7003.8
65°	15601.1	15656.1	15606.4	15372.2	14293.3	13139.9	11833.9	9539.5	8228.2	7608.9
67.5°	16121.0	16176.0	16197.3	16569.9	15897.4	14791.9	13434.4	10664.5	9021.4	8237.0
70°	16108.6	16092.6	16468.8	17522.8	17906.1	17079.2	15592.2	12048.6	9967.1	8758.7
72.5°	14662.4	14534.6	15423.6	17512.2	19577.6	19467.6	18227.3	13833.7	10783.4	8822.6
75°	10999.9	10659.2	12229.6	15782.1	19856.2	20823.3	19902.4	14941.0	10590.0	7795.2
77.5°	4704.1	4361.6	6212.4	11683.1	17771.2	19465.8	18365.7	13035.2	8453.5	5154.8
80°	1231.5	1229.7	1877.4	5296.8	12085.9	14374.9	12611.1	8418.0	4830.1	1841.9
82.5°	509.3	496.8	690.3	2060.1	5905.4	8066.7	6583.3	3754.8	1744.3	498.6
85°	189.9	188.1	335.4	711.6	2083.2	3327.1	2407.9	960.0	434.7	243.1
87.5°	53.2	51.5	72.8	246.7	507.5	770.1	411.7	157.9	122.4	95.8
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°
3825.7	0°	3825.7	3825.7	3825.7	3825.7	3825.7	3825.7	3825.7	3825.7	3825.7	3825.7
3832.8	2.5°	3838.2	3847.0	3863.0	3875.4	3891.4	3909.1	3934.0	3950.0	3965.9	3976.6
3841.7	5°	3854.1	3873.6	3914.5	3955.3	4003.2	4047.5	4099.0	4136.3	4166.4	4175.3
3873.6	7.5°	3889.6	3921.6	3990.8	4060.0	4136.3	4209.0	4283.5	4347.4	4398.9	4418.4
3930.4	10°	3951.7	3994.3	4091.9	4189.5	4290.6	4402.4	4498.3	4590.5	4663.3	4693.4
3997.9	12.5°	4029.8	4083.0	4210.8	4345.7	4485.8	4640.2	4764.4	4878.0	4968.5	5009.3
4091.9	15°	4130.9	4200.1	4363.4	4544.4	4750.2	4964.9	5122.9	5248.9	5350.0	5399.7
4189.5	17.5°	4241.0	4333.2	4539.1	4812.3	5106.9	5389.0	5573.6	5665.9	5770.5	5818.5
4280.0	20°	4347.4	4461.0	4755.6	5153.0	5545.2	5845.1	5994.1	6019.0	6026.1	6031.4
4365.2	22.5°	4457.4	4610.0	5027.0	5582.5	6003.0	6210.6	6231.9	6125.4	5976.4	5907.2
4448.6	25°	4578.1	4780.4	5381.9	6056.2	6396.9	6421.8	6258.5	5999.5	5717.3	5587.8
4516.0	27.5°	4695.2	4977.4	5807.8	6508.7	6680.8	6462.6	6111.2	5743.9	5403.2	5266.6
4563.9	30°	4812.3	5202.7	6278.0	6904.4	6810.4	6361.4	5878.8	5468.9	5126.4	4982.7
4606.5	32.5°	4931.2	5465.3	6819.3	7190.1	6787.3	6146.7	5589.6	5160.1	4858.5	4707.6
4643.8	35°	5066.1	5788.3	7332.1	7346.3	6632.9	5830.9	5208.0	4791.0	4528.4	4407.8
4688.1	37.5°	5241.8	6198.2	7784.6	7385.3	6363.2	5367.7	4734.3	4354.5	4138.0	4083.0
4753.8	40°	5460.0	6691.5	8130.6	7323.2	5964.0	4805.2	4216.1	3912.7	3790.2	3802.7
4842.5	42.5°	5743.9	7243.4	8373.7	7163.5	5408.6	4225.0	3761.9	3627.0	3685.6	3735.2
4975.6	45°	6113.0	7816.5	8524.5	6892.0	4780.4	3733.5	3493.9	3525.9	3570.2	3575.5
5190.3	47.5°	6585.0	8396.8	8623.9	6482.1	4139.8	3387.4	3323.6	3330.7	3321.8	3284.5
5511.5	50°	7174.1	8961.0	8712.6	5939.1	3595.1	3171.0	3085.8	3060.9	2938.5	2817.8
5939.1	52.5°	7844.9	9479.2	8749.9	5264.8	3171.0	2990.0	2851.6	2695.4	2466.5	2429.2
6476.8	55°	8590.2	9958.3	8654.0	4436.2	2814.3	2757.5	2548.1	2360.0	2335.2	2303.3
7184.8	57.5°	9480.9	10474.6	8458.9	3511.7	2448.8	2486.0	2282.0	2303.3	2258.9	2209.2
8095.1	60°	10455.1	11008.8	8116.4	2668.8	2070.8	2147.1	2212.8	2211.0	2198.6	2157.7
9055.1	62.5°	11331.7	11360.1	7442.1	2044.2	1739.0	1884.5	2063.7	2061.9	2051.3	2028.2
10057.6	65°	11853.4	11306.9	6317.1	1609.4	1465.7	1668.0	1861.4	1875.6	1877.4	1875.6
10811.8	67.5°	11761.1	10684.0	4773.3	1281.2	1240.3	1448.0	1660.9	1680.4	1694.6	1698.2
10907.6	70°	10717.7	9315.9	3112.4	1022.1	1039.8	1254.5	1471.0	1490.5	1503.0	1517.2
9465.0	72.5°	8354.2	6849.4	1781.6	826.9	864.2	1087.7	1282.9	1306.0	1313.1	1339.7
6586.8	75°	5090.9	4028.0	961.8	651.2	709.8	929.8	1096.6	1123.2	1135.7	1167.6
3234.8	77.5°	2420.4	1744.3	548.3	507.5	571.4	759.5	926.3	956.4	922.7	940.5
892.6	80°	818.0	647.7	346.0	386.8	436.5	592.7	741.7	771.9	700.9	697.4
296.3	82.5°	285.7	262.6	220.0	257.3	282.1	424.1	560.7	599.8	521.7	519.9
133.1	85°	111.8	106.5	122.4	140.2	168.6	260.8	369.1	388.6	321.2	259.1
39.0	87.5°	23.1	24.8	30.2	31.9	51.5	90.5	133.1	163.3	129.5	110.0
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>
3825.7
3969.5
4178.9
4420.2
4695.2
5009.3
5396.1
5816.7
6045.6
5926.7
5607.3
5282.6
4998.7
4727.2
4434.4
4122.1
3845.3
3781.4
3611.0
3312.9
2833.8
2441.7
2308.6
2200.3
2143.5
2019.3
1875.6
1701.7
1524.3
1350.4
<i>1171.1</i>
926.3
690.3
495.1
255.5
101.1
0.0

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