

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: P955516

Luminaire Tested: **GALN-SB8B-940-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8B-940-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33873 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

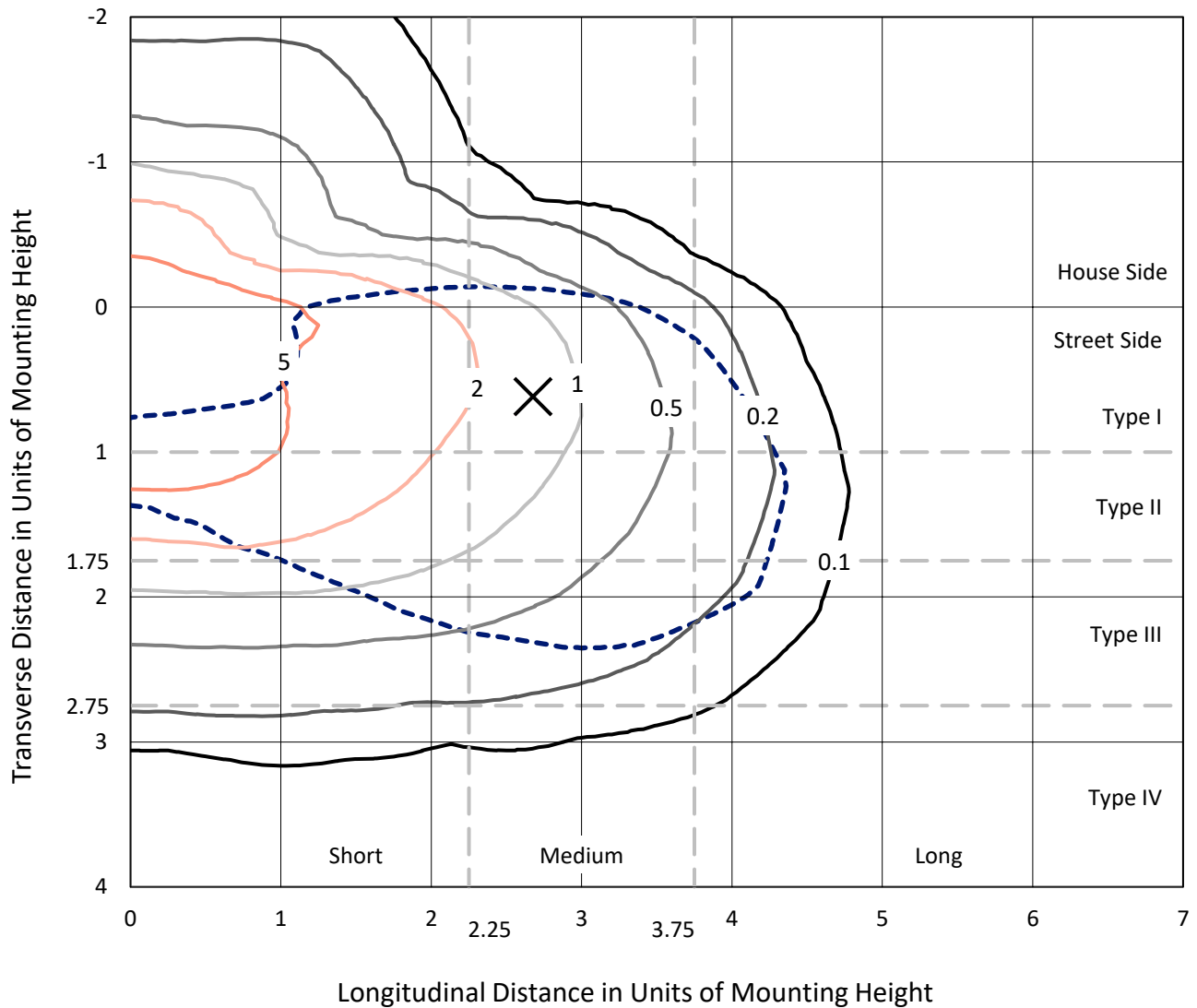
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

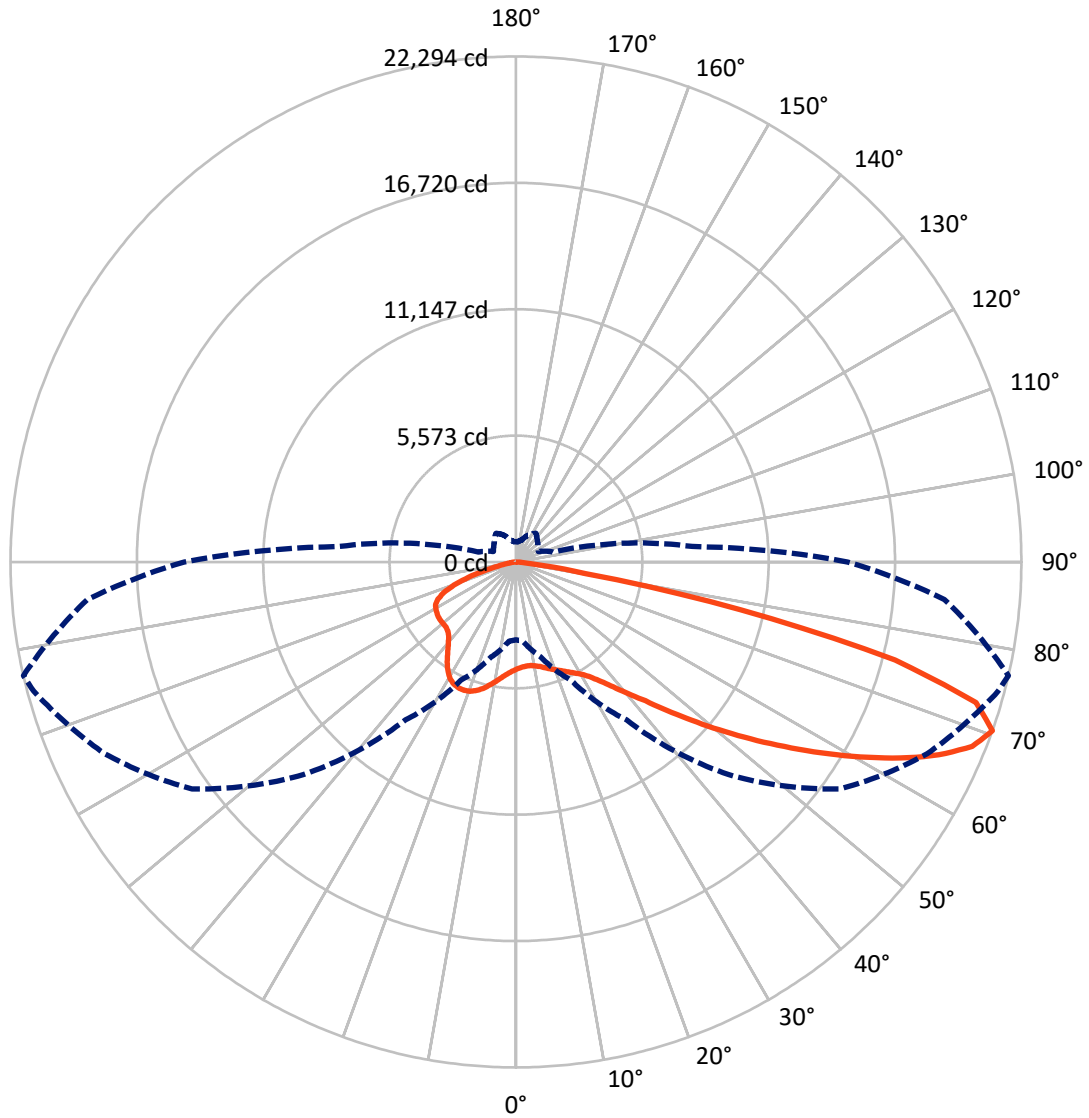
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7417.7	0.0	7417.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	26455.3	0.0	26455.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	33873.0	0.0	33873.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.7	1.3
10°-20°	1300.8	3.8
20°-30°	2224.5	6.6
30°-40°	3577.2	10.6
40°-50°	5584.9	16.5
50°-60°	7460.1	22.0
60°-70°	7951.3	23.5
70°-80°	4894.8	14.5
80°-90°	428.9	1.3
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°	33873.0	100.0
0°-180°	33873.0	100.0



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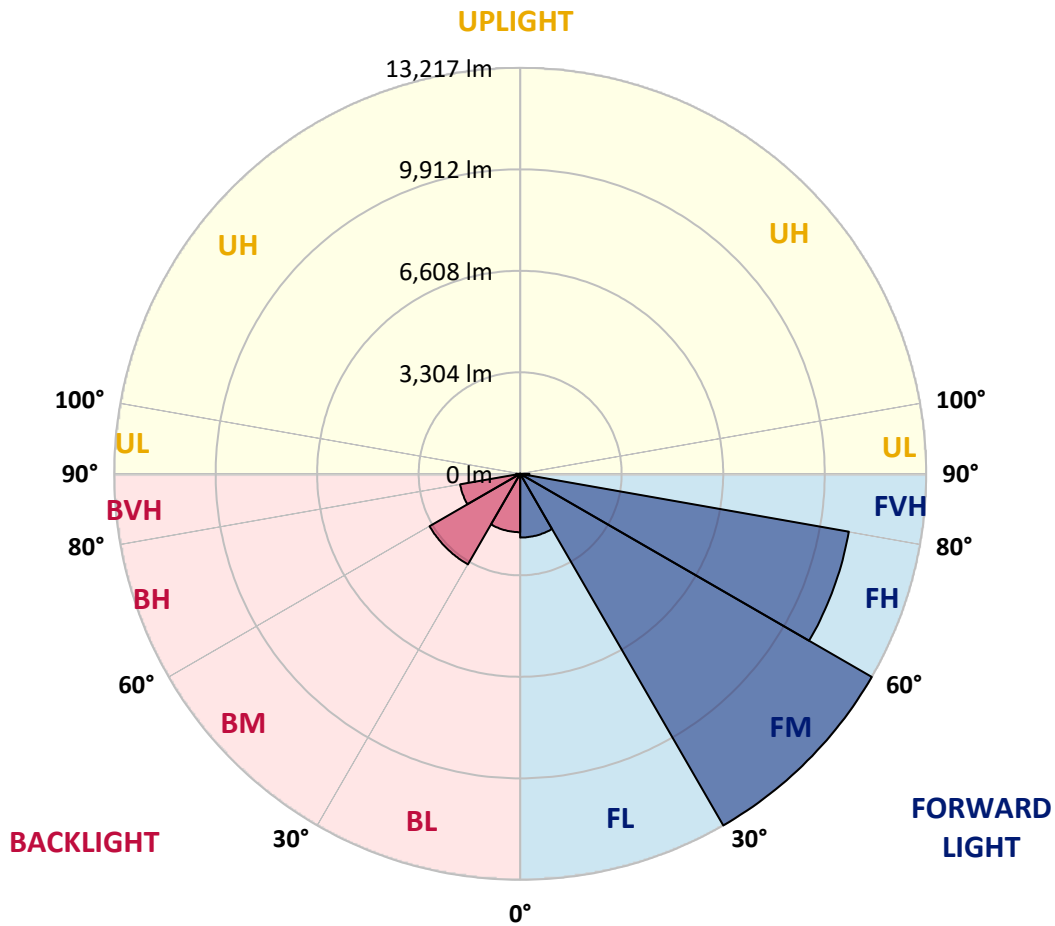
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2075.3	6.1			
FM (30°-60°)	13216.5	39.0			
FH (60°-80°)	10863.6	32.1			G4/12000
FVH (80°-90°)	299.9	0.9			G3/500
BL (0°-30°)	1900.6	5.6	B3/2500		
BM (30°-60°)	3405.6	10.1	B3/5000		
BH (60°-80°)	1982.4	5.9	B3/2500		G3/2500
BVH (80°-90°)	129.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4725.6	4725.6	4725.6	4725.6	4725.6	4725.6	4725.6	4725.6	4725.6	4725.6
2.5°	4356.1	4354.3	4376.9	4383.8	4425.5	4455.0	4510.5	4569.5	4645.8	4654.5
5°	4104.5	4104.5	4130.6	4158.3	4212.1	4271.1	4356.1	4458.4	4590.3	4611.1
7.5°	3891.2	3905.0	3927.6	3981.4	4043.8	4128.8	4258.9	4404.7	4578.1	4611.1
10°	3719.4	3735.0	3762.8	3806.1	3899.8	4017.8	4187.8	4375.2	4607.6	4659.7
12.5°	3665.6	3681.2	3696.9	3729.8	3816.6	3955.3	4158.3	4389.0	4678.8	4730.8
15°	3790.5	3809.6	3797.5	3788.8	3833.9	3960.5	4172.2	4439.4	4767.2	4841.8
17.5°	4078.5	4085.5	4057.7	3976.2	3969.2	4036.9	4238.1	4508.7	4878.3	4959.8
20°	4543.4	4531.3	4474.0	4312.7	4220.8	4206.9	4350.9	4612.8	4992.8	5079.5
22.5°	5174.9	5161.0	5046.5	4791.5	4586.8	4451.5	4513.9	4748.1	5121.1	5218.3
25°	5962.5	5943.4	5775.1	5428.2	5110.7	4775.9	4736.0	4926.8	5279.0	5369.2
27.5°	6881.9	6866.3	6684.2	6226.2	5768.2	5220.0	5011.8	5136.7	5443.8	5546.2
30°	7870.8	7915.9	7593.2	7100.5	6521.1	5799.4	5383.1	5395.2	5657.2	5749.1
32.5°	9033.1	9111.2	8722.6	8098.0	7307.0	6429.2	5851.5	5756.1	5967.7	6044.0
35°	10185.0	10273.5	9950.8	9260.4	8349.6	7171.7	6340.7	6170.7	6380.6	6463.9
37.5°	11180.8	11298.7	11132.2	10532.0	9465.1	8066.8	6979.1	6658.2	6888.9	6993.0
40°	11966.6	12147.1	12134.9	11760.2	10780.0	9152.8	7789.2	7260.1	7520.4	7633.1
42.5°	12605.0	12761.2	12896.5	12877.4	12152.3	10386.2	8741.7	8042.5	8240.3	8370.4
45°	13045.7	13212.2	13503.7	13817.7	13472.4	11706.4	9832.8	8970.6	9151.1	9347.1
47.5°	13439.5	13628.6	14006.8	14504.7	14593.1	13031.8	11028.1	10051.4	10216.2	10419.2
50°	13474.2	13637.3	14223.6	14929.7	15389.4	14305.2	12311.9	11264.0	11418.4	11635.3
52.5°	12636.3	12893.0	13916.6	14917.5	15755.4	15370.3	13586.9	12525.2	12698.7	12958.9
55°	9808.6	10185.0	13016.2	14452.6	15625.3	16059.0	14799.6	13866.2	14088.3	14360.7
57.5°	8448.5	8613.3	10332.5	13606.0	15032.0	16237.7	15823.1	15221.1	15578.5	15876.9
60°	7593.2	7730.3	8746.9	12289.3	14251.4	15954.9	16614.2	16484.1	17101.6	17457.3
62.5°	6677.2	6807.4	7732.0	10261.3	13252.1	15484.8	17113.8	17649.8	18663.0	19051.6
65°	5768.2	5879.2	6765.7	8622.0	11982.3	15014.7	17372.3	18657.8	20108.1	20510.5
67.5°	4755.1	4847.0	5684.9	7274.0	10438.3	14371.1	17500.7	19450.6	21365.8	21711.0
70°	3431.4	3502.6	4368.2	5752.6	8500.5	13264.3	17448.6	20012.6	22018.1	22293.9
72.5°	1622.0	1686.2	2702.8	3735.0	6004.1	11109.7	16395.6	19566.8	21355.4	21218.3
75°	865.7	921.2	1552.6	2048.8	3171.2	7615.8	13416.9	16855.3	17932.6	17266.5
77.5°	586.4	629.7	961.1	1230.0	1448.6	3615.3	8623.7	11670.0	11227.6	10127.8
80°	464.9	510.0	787.6	832.7	700.9	1306.3	3563.3	5402.2	3880.7	3103.6
82.5°	357.4	407.7	662.7	603.7	381.7	536.1	1037.4	1708.8	994.0	756.4
85°	218.6	272.4	520.4	385.1	215.1	244.6	352.2	475.3	303.6	253.3
87.5°	111.0	156.1	263.7	140.5	97.1	57.2	93.7	93.7	79.8	69.4
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°
4725.6	0°	4725.6	4725.6	4725.6	4725.6	4725.6	4725.6	4725.6	4725.6	4725.6	4725.6
4701.3	2.5°	4742.9	4777.6	4836.6	4892.1	4935.5	4977.1	5018.8	5041.3	5048.3	5076.0
4727.3	5°	4798.5	4862.6	4977.1	5084.7	5152.4	5194.0	5223.5	5240.8	5244.3	5253.0
4798.5	7.5°	4900.8	5003.2	5162.8	5270.3	5320.6	5317.2	5305.0	5261.6	5244.3	5228.7
4902.5	10°	5044.8	5180.1	5376.1	5450.7	5419.5	5336.2	5228.7	5102.0	5043.1	4985.8
5044.8	12.5°	5223.5	5395.2	5587.8	5584.3	5429.9	5216.5	4966.7	4772.4	4649.3	4560.8
5220.0	15°	5440.3	5638.1	5785.6	5667.6	5329.3	4945.9	4579.9	4326.6	4215.6	4118.4
5397.0	17.5°	5664.1	5875.8	5943.4	5641.6	5076.0	4545.2	4130.6	3931.1	3821.8	3769.7
5587.8	20°	5882.7	6092.6	6037.1	5492.4	4690.9	4090.7	3721.1	3611.9	3589.3	3601.4
5773.4	22.5°	6113.4	6300.8	6056.2	5204.4	4199.9	3625.7	3422.8	3426.2	3476.5	3513.0
5967.7	25°	6349.4	6476.0	6005.9	4788.0	3672.6	3284.0	3233.7	3289.2	3388.1	3459.2
6186.3	27.5°	6576.6	6632.1	5896.6	4272.8	3219.8	3039.4	3048.0	3162.5	3311.7	3410.6
6451.7	30°	6833.4	6770.9	5686.7	3693.4	2905.8	2829.5	2902.3	3035.9	3185.1	3273.6
6786.5	32.5°	7123.1	6890.6	5353.6	3157.3	2683.7	2661.2	2780.9	2867.6	2933.5	2959.6
7230.6	35°	7483.9	7058.9	4926.8	2780.9	2484.2	2538.0	2652.5	2609.1	2583.1	2569.2
7827.4	37.5°	7952.3	7286.2	4427.2	2536.3	2322.9	2449.5	2496.4	2361.1	2258.7	2208.4
8550.8	40°	8516.1	7619.2	3946.7	2347.2	2220.5	2373.2	2291.7	2128.6	1998.5	1927.4
9364.4	42.5°	9142.4	7967.9	3542.5	2204.9	2163.3	2310.8	2140.7	1946.4	1736.5	1714.0
10334.2	45°	9799.9	8327.0	3266.6	2095.6	2135.5	2257.0	2054.0	1740.0	1590.8	1682.8
11307.4	47.5°	10457.4	8656.6	3100.1	2014.1	2121.7	2196.3	1977.7	1625.5	1519.7	1653.3
12350.0	50°	11189.5	8951.6	3025.5	1955.1	2106.0	2172.0	1863.2	1596.0	1445.1	1533.6
13429.1	52.5°	11916.3	9180.6	2970.0	1896.1	2083.5	2152.9	1807.7	1561.3	1354.9	1360.1
14515.1	55°	12641.5	9329.7	2909.3	1818.1	2033.2	2111.3	1802.5	1523.2	1287.2	1262.9
15663.5	57.5°	13415.2	9414.8	2834.7	1731.3	1946.4	2005.4	1797.3	1493.7	1266.4	1226.5
16838.0	60°	14202.8	9539.7	2737.5	1625.5	1830.2	1878.8	1785.1	1483.3	1254.3	1186.6
17944.8	62.5°	14908.9	9583.0	2621.3	1524.9	1681.0	1753.9	1759.1	1474.6	1221.3	1105.1
18864.2	65°	15372.1	9395.7	2418.3	1410.4	1519.7	1625.5	1708.8	1445.1	1162.3	1046.1
19318.7	67.5°	15353.0	8861.4	2100.8	1262.9	1363.6	1483.3	1635.9	1394.8	1091.2	973.2
18975.2	70°	14638.2	7806.6	1698.4	1091.2	1191.8	1330.6	1542.2	1320.2	1006.2	893.4
16872.7	72.5°	12554.7	6110.0	1233.4	890.0	992.3	1172.7	1420.8	1230.0	919.4	822.3
12469.7	75°	8968.9	3866.9	836.2	683.5	772.0	994.0	1269.9	1124.1	839.6	825.8
6245.3	77.5°	4581.6	1847.6	553.4	499.6	537.8	784.1	1066.9	1004.4	851.8	681.8
1776.4	80°	1490.2	681.8	348.7	340.0	357.4	522.2	825.8	824.0	645.3	463.2
430.2	82.5°	475.3	293.2	227.3	218.6	209.9	327.9	576.0	652.3	435.4	293.2
154.4	85°	189.1	175.2	133.6	123.2	88.5	154.4	301.9	433.7	324.4	211.6
39.9	87.5°	69.4	69.4	36.4	26.0	19.1	52.0	81.5	130.1	185.6	109.3
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>
4725.6
5091.6
5266.8
5232.2
4968.5
4540.0
4108.0
3785.3
3596.2
3521.6
3478.3
3434.9
3294.4
2973.4
2583.1
2220.5
1932.6
1736.5
1731.3
1715.7
1599.5
1396.5
1280.3
1231.7
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1105.1
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