

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: P956587

Luminaire Tested: **GALN-SB9A-940-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956587
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-SB9A-940-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30395 lumens
Efficiency: N/A
Efficacy: 119.0 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

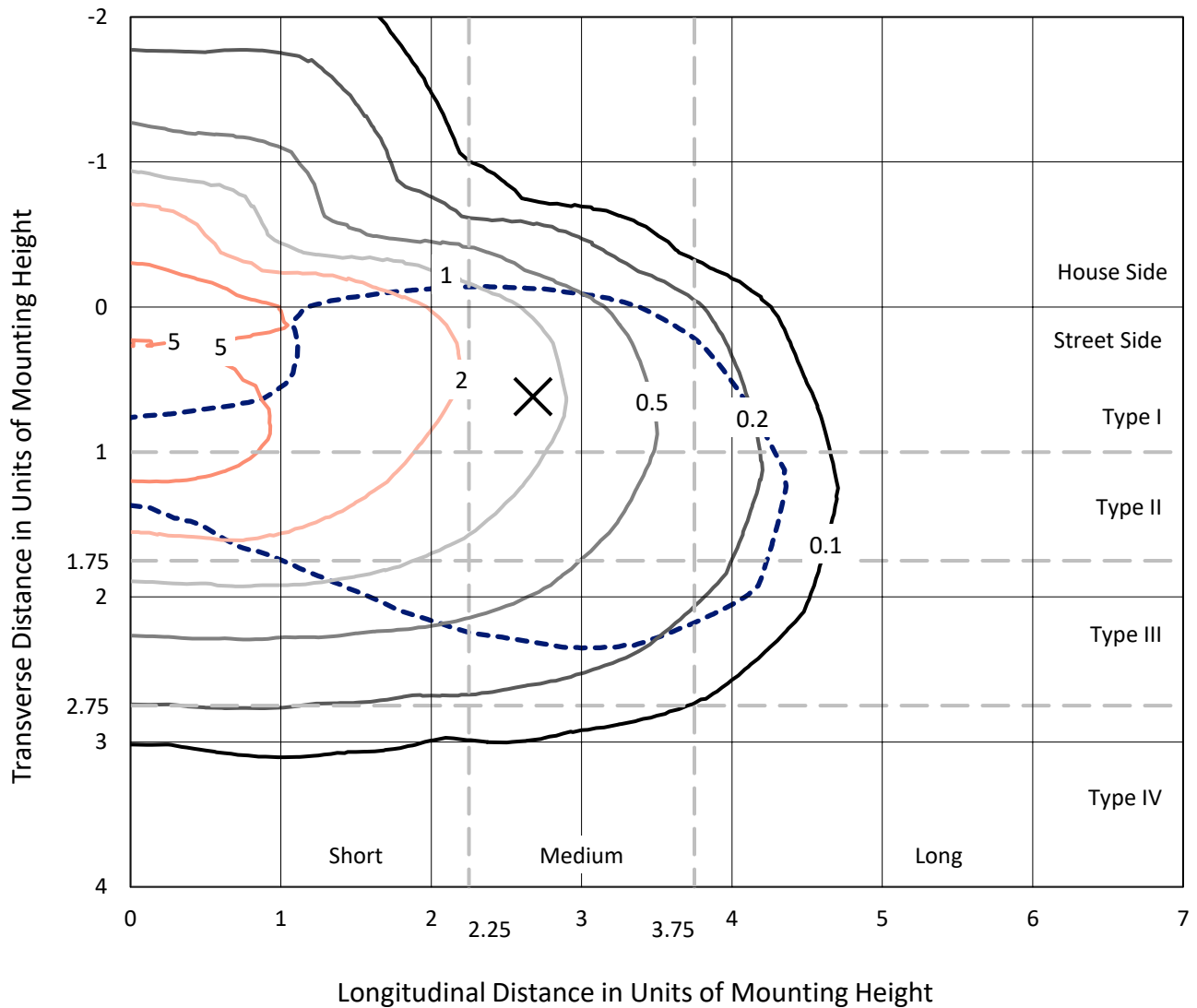
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

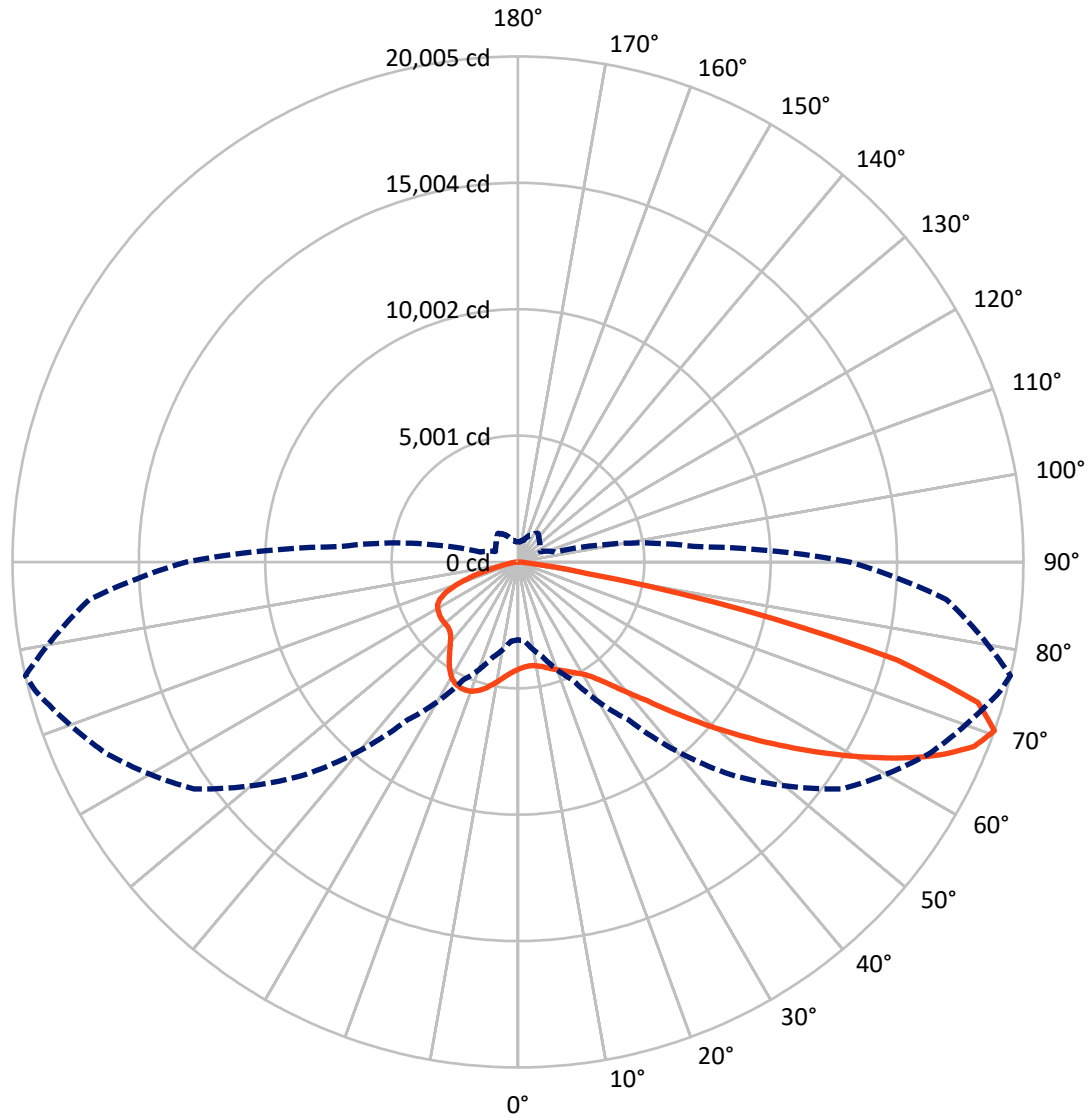
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	6656.0	0.0	6656.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	23739.0	0.0	23739.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	30395.0	0.0	30395.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.4	1.3
10°-20°	1167.2	3.8
20°-30°	1996.1	6.6
30°-40°	3209.9	10.6
40°-50°	5011.4	16.5
50°-60°	6694.1	22.0
60°-70°	7134.9	23.5
70°-80°	4392.2	14.5
80°-90°	384.9	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°	30395.0	100.0
0°-180°	30395.0	100.0

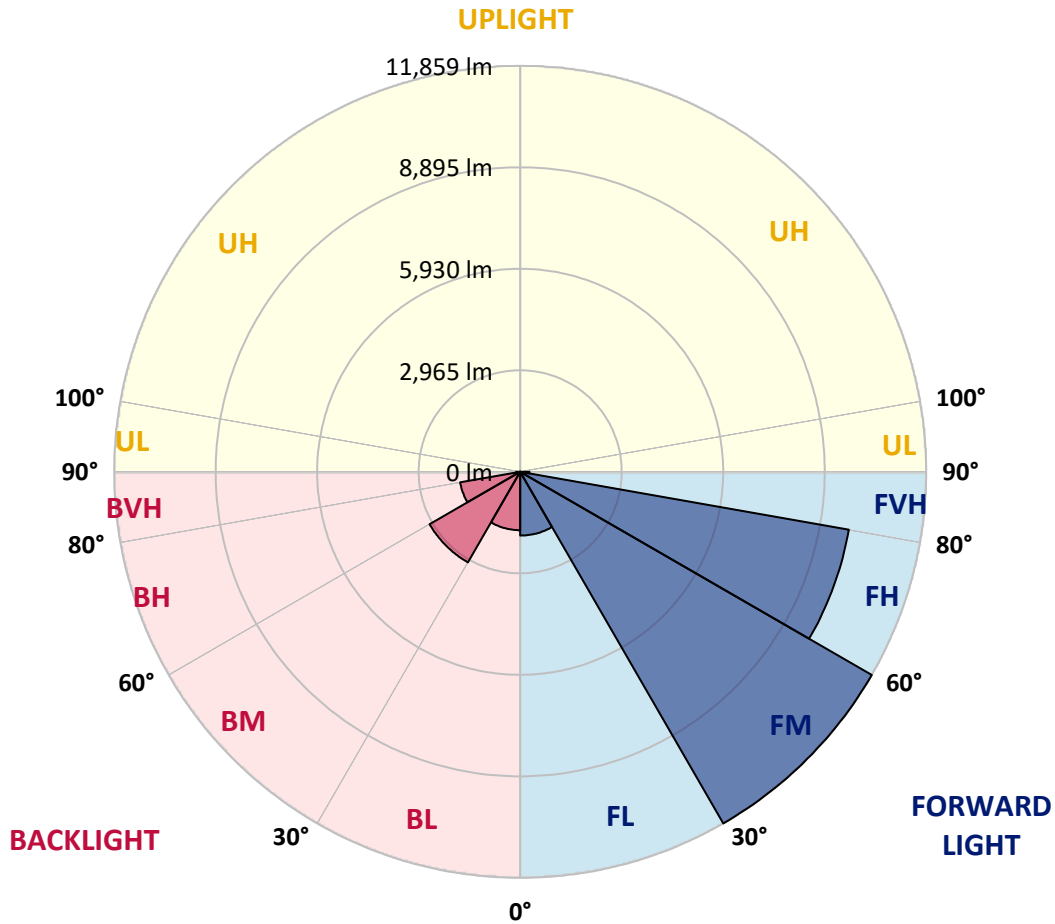


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1862.2	6.1			
FM (30°-60°)	11859.5	39.0			
FH (60°-80°)	9748.2	32.1			G4/12000
FVH (80°-90°)	269.1	0.9			G3/500
BL (0°-30°)	1705.5	5.6	B3/2500		
BM (30°-60°)	3055.9	10.1	B3/5000		
BH (60°-80°)	1778.9	5.9	B3/2500		G3/2500
BVH (80°-90°)	115.8	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°	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4
2.5°	3908.8	3907.3	3927.5	3933.7	3971.1	3997.5	4047.4	4100.3	4168.8	4176.6
5°	3683.1	3683.1	3706.4	3731.3	3779.6	3832.5	3908.8	4000.7	4119.0	4137.6
7.5°	3491.6	3504.1	3524.3	3572.6	3628.6	3704.9	3821.6	3952.4	4108.1	4137.6
10°	3337.5	3351.5	3376.4	3415.3	3499.4	3605.3	3757.8	3925.9	4134.5	4181.2
12.5°	3289.3	3303.3	3317.3	3346.8	3424.7	3549.2	3731.3	3938.4	4198.3	4245.0
15°	3401.3	3418.5	3407.6	3399.8	3440.2	3553.9	3743.8	3983.5	4277.7	4344.7
17.5°	3659.7	3666.0	3641.1	3567.9	3561.7	3622.4	3803.0	4045.8	4377.4	4450.5
20°	4076.9	4066.0	4014.7	3869.9	3787.4	3774.9	3904.1	4139.2	4480.1	4557.9
22.5°	4643.6	4631.1	4528.4	4299.5	4115.8	3994.4	4050.5	4260.6	4595.3	4682.5
25°	5350.3	5333.2	5182.2	4870.8	4586.0	4285.5	4249.7	4421.0	4737.0	4817.9
27.5°	6175.3	6161.3	5997.9	5586.9	5175.9	4684.0	4497.2	4609.3	4884.8	4976.7
30°	7062.6	7103.1	6813.6	6371.5	5851.5	5204.0	4830.4	4841.3	5076.3	5158.8
32.5°	8105.6	8175.7	7827.0	7266.6	6556.7	5769.0	5250.7	5165.0	5355.0	5423.5
35°	9139.2	9218.6	8929.1	8309.5	7492.3	6435.3	5689.6	5537.1	5725.4	5800.2
37.5°	10032.8	10138.6	9989.2	9450.6	8493.2	7238.5	6262.5	5974.5	6181.6	6275.0
40°	10737.9	10899.8	10888.9	10552.7	9673.2	8213.0	6989.5	6514.7	6748.2	6849.4
42.5°	11310.8	11450.9	11572.3	11555.2	10904.5	9319.8	7844.1	7216.7	7394.2	7511.0
45°	11706.2	11855.6	12117.1	12398.9	12089.1	10504.4	8823.2	8049.6	8211.5	8387.4
47.5°	12059.6	12229.2	12568.6	13015.4	13094.7	11693.7	9895.8	9019.4	9167.3	9349.4
50°	12090.7	12237.0	12763.2	13396.7	13809.3	12836.3	11047.7	10107.5	10246.0	10440.6
52.5°	11338.8	11569.2	12487.6	13385.8	14137.7	13792.1	12191.9	11239.2	11394.9	11628.4
55°	8801.4	9139.2	11679.7	12968.7	14021.0	14410.1	13280.0	12442.5	12641.7	12886.1
57.5°	7581.0	7728.9	9271.5	12209.0	13488.6	14570.5	14198.4	13658.3	13978.9	14246.7
60°	6813.6	6936.5	7848.7	11027.5	12788.1	14316.7	14908.3	14791.5	15345.7	15664.8
62.5°	5991.6	6108.4	6938.1	9207.7	11891.4	13894.9	15356.6	15837.6	16746.7	17095.4
65°	5175.9	5275.6	6071.0	7736.7	10751.9	13473.0	15588.5	16742.0	18043.4	18404.6
67.5°	4266.8	4349.3	5101.2	6527.1	9366.5	12895.5	15703.7	17453.4	19172.0	19481.8
70°	3079.1	3142.9	3919.7	5161.9	7627.7	11902.3	15657.0	17957.8	19757.3	20004.8
72.5°	1455.5	1513.1	2425.3	3351.5	5387.6	9968.9	14712.1	17557.7	19162.7	19039.7
75°	776.8	826.6	1393.2	1838.4	2845.6	6833.8	12039.3	15124.6	16091.3	15493.6
77.5°	526.2	565.1	862.4	1103.7	1299.8	3244.1	7738.2	10471.7	10074.8	9087.9
80°	417.2	457.7	706.7	747.2	628.9	1172.2	3197.4	4847.5	3482.3	2784.9
82.5°	320.7	365.8	594.6	541.7	342.5	481.0	930.9	1533.3	892.0	678.7
85°	196.1	244.4	467.0	345.6	193.0	219.5	316.0	426.5	272.4	227.3
87.5°	99.6	140.1	236.6	126.1	87.2	51.4	84.1	84.1	71.6	62.3
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°
4240.4	0°	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4
4218.6	2.5°	4255.9	4287.1	4340.0	4389.8	4428.7	4466.1	4503.5	4523.7	4529.9	4554.8
4241.9	5°	4305.8	4363.4	4466.1	4562.6	4623.3	4660.7	4687.1	4702.7	4705.8	4713.6
4305.8	7.5°	4397.6	4489.4	4632.7	4729.2	4774.3	4771.2	4760.3	4721.4	4705.8	4691.8
4399.2	10°	4526.8	4648.2	4824.1	4891.1	4863.0	4788.3	4691.8	4578.2	4525.3	4473.9
4526.8	12.5°	4687.1	4841.3	5014.0	5010.9	4872.4	4680.9	4456.8	4282.4	4171.9	4092.5
4684.0	15°	4881.7	5059.2	5191.5	5085.7	4782.1	4438.1	4109.6	3882.3	3782.7	3695.5
4842.8	17.5°	5082.5	5272.5	5333.2	5062.3	4554.8	4078.5	3706.4	3527.4	3429.4	3382.7
5014.0	20°	5278.7	5467.0	5417.2	4928.4	4209.2	3670.6	3339.1	3241.0	3220.8	3231.7
5180.6	22.5°	5485.7	5653.8	5434.3	4670.0	3768.7	3253.4	3071.3	3074.4	3119.6	3152.3
5355.0	25°	5697.4	5811.1	5389.2	4296.4	3295.5	2946.8	2901.6	2951.5	3040.2	3104.0
5551.1	27.5°	5901.4	5951.2	5291.1	3834.1	2889.2	2727.3	2735.1	2837.8	2971.7	3060.4
5789.3	30°	6131.7	6075.7	5102.8	3314.2	2607.4	2538.9	2604.3	2724.2	2858.1	2937.4
6089.7	32.5°	6391.7	6183.1	4803.9	2833.1	2408.2	2387.9	2495.3	2573.2	2632.3	2655.7
6488.2	35°	6715.5	6334.1	4421.0	2495.3	2229.2	2277.4	2380.2	2341.2	2317.9	2305.4
7023.7	37.5°	7135.8	6538.0	3972.6	2275.9	2084.4	2198.0	2240.1	2118.6	2026.8	1981.6
7672.8	40°	7641.7	6836.9	3541.4	2106.2	1992.5	2129.5	2056.4	1910.0	1793.3	1729.5
8402.9	42.5°	8203.7	7149.8	3178.7	1978.5	1941.2	2073.5	1920.9	1746.6	1558.2	1538.0
9273.1	45°	8793.7	7472.0	2931.2	1880.5	1916.3	2025.2	1843.1	1561.3	1427.5	1510.0
10146.4	47.5°	9383.6	7767.8	2781.8	1807.3	1903.8	1970.7	1774.6	1458.6	1363.6	1483.5
11082.0	50°	10040.5	8032.4	2714.8	1754.4	1889.8	1949.0	1671.9	1432.1	1296.7	1376.1
12050.2	52.5°	10692.8	8237.9	2665.0	1701.4	1869.6	1931.8	1622.1	1401.0	1215.8	1220.4
13024.7	55°	11343.5	8371.8	2610.5	1631.4	1824.4	1894.5	1617.4	1366.8	1155.1	1133.3
14055.2	57.5°	12037.8	8448.1	2543.6	1553.6	1746.6	1799.5	1612.7	1340.3	1136.4	1100.6
15109.1	60°	12744.5	8560.1	2456.4	1458.6	1642.3	1685.9	1601.8	1331.0	1125.5	1064.8
16102.2	62.5°	13378.1	8599.1	2352.1	1368.3	1508.4	1573.8	1578.5	1323.2	1095.9	991.6
16927.3	65°	13793.7	8430.9	2170.0	1265.6	1363.6	1458.6	1533.3	1296.7	1043.0	938.7
17335.1	67.5°	13776.6	7951.5	1885.1	1133.3	1223.5	1331.0	1467.9	1251.6	979.1	873.3
17026.9	70°	13135.2	7005.0	1524.0	979.1	1069.4	1194.0	1383.9	1184.6	902.9	801.7
15140.2	72.5°	11265.6	5482.6	1106.8	798.6	890.4	1052.3	1274.9	1103.7	825.0	737.9
11189.4	75°	8048.0	3469.8	750.3	613.3	692.7	892.0	1139.5	1008.7	753.4	741.0
5604.0	77.5°	4111.2	1657.9	496.6	448.3	482.6	703.6	957.4	901.3	764.3	611.8
1594.0	80°	1337.2	611.8	312.9	305.1	320.7	468.6	741.0	739.4	579.1	415.6
386.1	82.5°	426.5	263.1	203.9	196.1	188.4	294.2	516.8	585.3	390.7	263.1
138.5	85°	169.7	157.2	119.9	110.5	79.4	138.5	270.9	389.2	291.1	189.9
35.8	87.5°	62.3	62.3	32.7	23.4	17.1	46.7	73.2	116.8	166.6	98.1
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>
4240.4
4568.8
4726.1
4694.9
4458.3
4073.8
3686.2
3396.7
3227.0
3160.0
3121.1
3082.2
2956.1
2668.1
2317.9
1992.5
1734.1
1558.2
1553.6
1539.6
1435.3
1253.1
1148.8
1105.2
1069.4
991.6
938.7
878.0
<i>811.0</i>
733.2
698.9
544.8
367.4
261.5
194.6
96.5
0.0

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