

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: P948721

Luminaire Tested: **GALN-SB3C-940-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-940-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16184 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

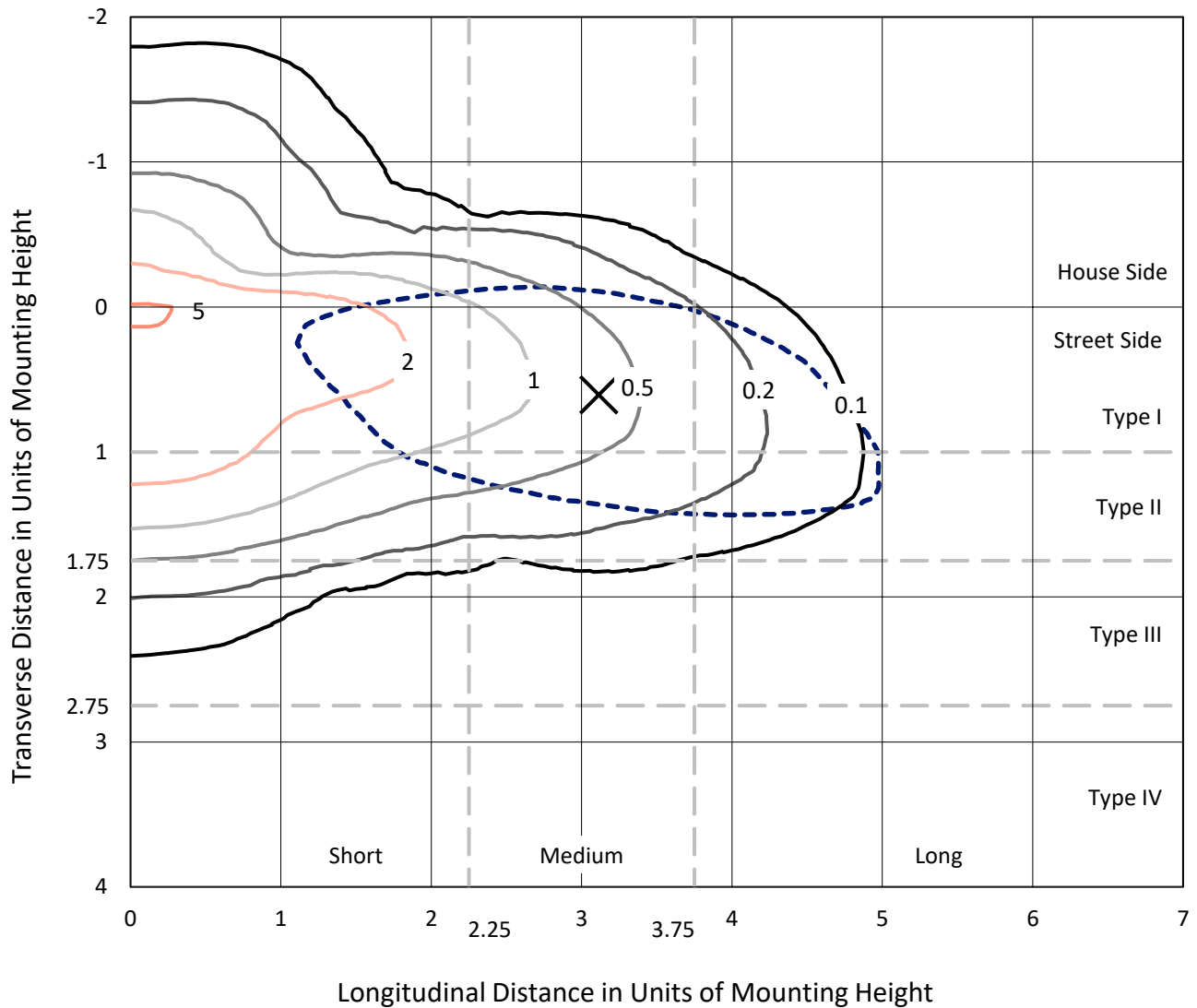
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

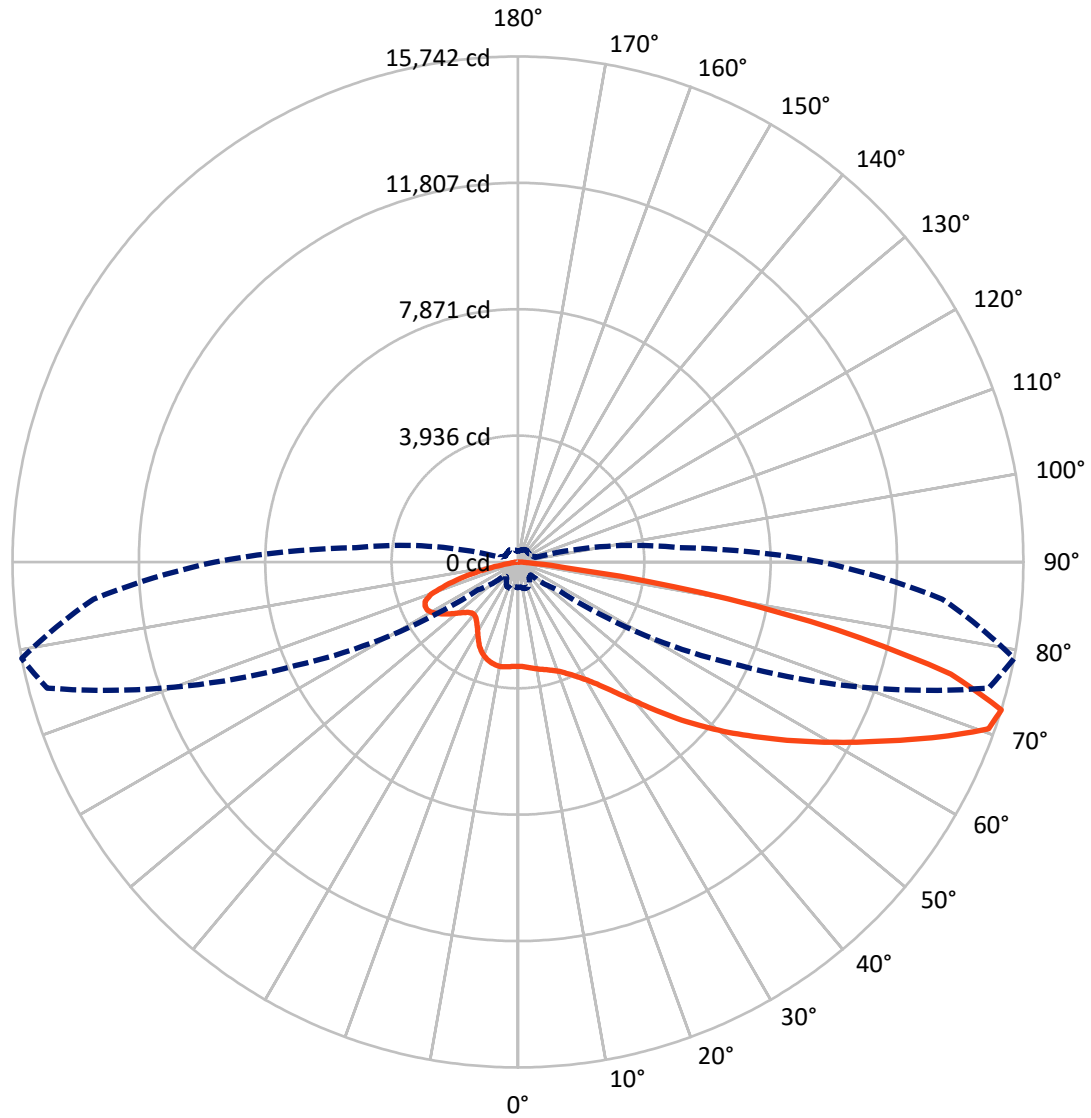
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3561.4	0.0	3561.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	12622.6	0.0	12622.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	16184.0	0.0	16184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.9	1.8
10°-20°	771.0	4.8
20°-30°	1244.1	7.7
30°-40°	1867.2	11.5
40°-50°	2648.7	16.4
50°-60°	3345.0	20.7
60°-70°	3397.3	21.0
70°-80°	2315.4	14.3
80°-90°	300.4	1.9
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°	16184.0	100.0
0°-180°	16184.0	100.0

Coefficient of Utilization



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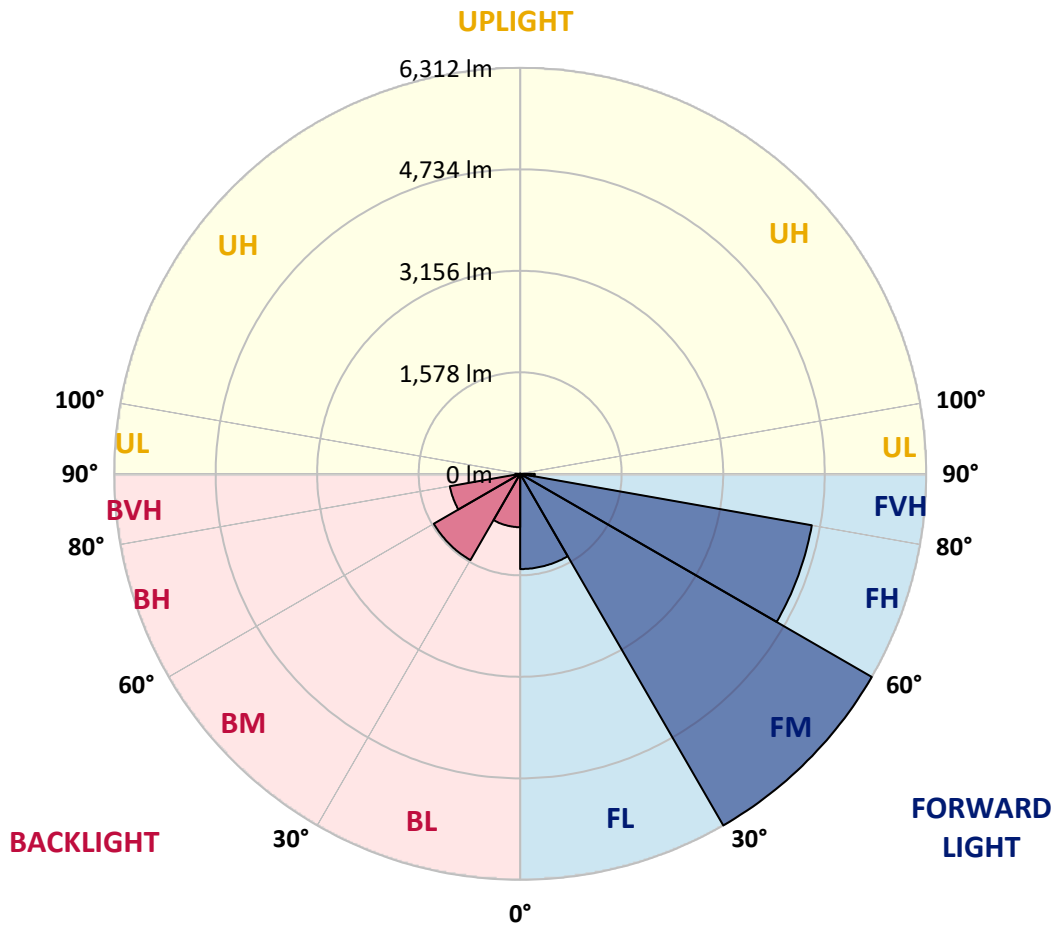
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1480.4	9.1			
FM (30°-60°)	6312.1	39.0			
FH (60°-80°)	4603.8	28.4			G2/5000
FVH (80°-90°)	226.3	1.4			G3/500
BL (0°-30°)	829.5	5.1	B2/1000		
BM (30°-60°)	1548.8	9.6	B2/2500		
BH (60°-80°)	1108.9	6.9	B3/2500		G3/2500
BVH (80°-90°)	74.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	3248.8	3248.8	3248.8	3248.8	3248.8	3248.8	3248.8	3248.8	3248.8	3248.8
2.5°	3250.5	3235.1	3244.5	3241.1	3245.4	3250.5	3252.2	3254.8	3263.3	3262.5
5°	3243.6	3228.2	3241.1	3236.8	3247.9	3259.9	3270.2	3279.6	3293.3	3299.3
7.5°	3229.1	3218.8	3231.7	3244.5	3265.0	3283.0	3297.6	3319.0	3338.7	3342.1
10°	3144.3	3136.6	3166.6	3200.0	3256.5	3305.3	3337.0	3361.8	3383.2	3386.6
12.5°	3056.2	3046.8	3080.1	3125.5	3217.1	3305.3	3372.1	3404.6	3423.4	3434.6
15°	3041.6	3033.9	3052.7	3092.1	3168.3	3282.2	3396.0	3456.0	3472.2	3485.1
17.5°	3111.8	3097.3	3105.0	3118.7	3163.2	3260.8	3414.9	3514.2	3539.0	3552.7
20°	3274.5	3253.9	3241.9	3214.5	3206.8	3264.2	3413.1	3584.4	3616.9	3634.0
22.5°	3491.1	3477.4	3451.7	3382.3	3307.0	3306.1	3445.7	3674.3	3735.0	3751.3
25°	3753.0	3732.5	3699.9	3605.8	3461.1	3389.2	3500.5	3789.0	3890.8	3895.1
27.5°	4054.3	4023.5	3979.0	3854.9	3659.7	3519.3	3584.4	3920.8	4069.8	4068.0
30°	4371.9	4341.1	4294.0	4143.4	3897.7	3694.8	3700.8	4062.9	4282.1	4272.6
32.5°	4603.9	4580.8	4571.4	4455.0	4171.6	3902.0	3834.3	4220.4	4544.0	4535.5
35°	4782.0	4752.0	4763.2	4704.1	4470.4	4134.0	3997.8	4407.9	4862.5	4861.6
37.5°	4958.4	4931.8	4941.2	4901.9	4746.9	4428.4	4197.3	4637.3	5257.1	5276.0
40°	5119.3	5091.0	5128.7	5091.9	4961.8	4741.8	4424.2	4896.7	5714.3	5750.2
42.5°	5216.0	5193.8	5256.3	5257.1	5148.4	5006.3	4673.3	5182.6	6243.3	6323.8
45°	5249.4	5241.7	5335.9	5355.6	5313.6	5159.5	4897.6	5494.3	6813.5	6957.3
47.5°	5213.5	5198.9	5329.0	5401.8	5435.2	5231.4	5083.3	5831.5	7395.6	7606.2
50°	5032.0	5003.7	5197.2	5350.4	5469.4	5278.5	5270.8	6221.1	8057.3	8287.6
52.5°	4705.8	4684.4	4904.4	5170.7	5394.1	5301.6	5481.4	6646.5	8685.7	8983.6
55°	4288.9	4260.7	4502.9	4850.5	5206.6	5293.9	5692.0	7122.5	9427.0	9729.2
57.5°	3628.0	3571.5	3878.0	4288.9	4901.0	5284.5	5911.2	7595.9	10180.4	10542.5
60°	2664.1	2580.2	2956.0	3443.1	4303.5	5192.9	6182.5	8126.7	11084.4	11410.6
62.5°	1551.2	1502.4	1748.1	2202.7	3243.6	4653.6	6334.9	8743.9	11973.0	12315.4
65°	1204.5	1190.8	1212.2	1247.3	1805.5	3484.2	5864.9	9345.7	13103.0	13342.7
67.5°	1101.8	1091.5	1100.9	1035.0	916.0	1940.7	4639.9	9498.1	14313.5	14459.0
70°	979.3	967.4	998.2	941.7	720.8	882.6	2998.0	8945.1	15276.6	15549.6
72.5°	797.9	784.2	856.1	830.4	607.0	566.7	1505.8	7631.0	15175.5	15742.3
75°	612.9	605.2	690.8	712.2	494.8	446.0	722.5	5672.3	13354.7	13925.7
77.5°	476.0	470.0	513.6	591.5	398.9	345.9	444.3	3598.1	10064.0	10164.1
80°	357.0	339.9	380.1	458.0	310.8	252.5	301.3	2098.2	6361.5	5766.5
82.5°	223.4	214.9	248.3	305.6	219.2	173.8	196.0	1159.1	2549.4	1501.5
85°	127.6	124.1	135.3	174.6	119.0	100.2	112.1	511.9	465.7	320.2
87.5°	51.4	49.7	61.6	77.9	43.7	36.8	39.4	123.3	102.7	95.0
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°
3248.8	0°	3248.8	3248.8	3248.8	3248.8	3248.8	3248.8	3248.8	3248.8	3248.8	3248.8
3261.6	2.5°	3258.2	3258.2	3246.2	3227.4	3206.0	3192.3	3170.0	3164.0	3140.9	3134.1
3290.7	5°	3297.6	3290.7	3253.9	3200.8	3128.1	3061.3	2987.7	2941.5	2876.4	2853.3
3348.1	7.5°	3347.2	3328.4	3265.0	3148.6	2996.2	2846.4	2690.6	2572.5	2459.5	2419.3
3395.2	10°	3392.6	3366.1	3258.2	3054.5	2790.8	2531.4	2283.1	2109.4	1977.5	1923.6
3447.4	12.5°	3438.0	3389.2	3212.8	2897.8	2498.9	2147.0	1882.5	1747.2	1665.9	1600.9
3490.2	15°	3480.8	3412.3	3142.6	2688.1	2178.7	1821.7	1626.5	1518.7	1453.6	1410.8
3552.7	17.5°	3530.4	3432.0	3037.3	2421.8	1873.9	1596.6	1437.3	1372.3	1359.4	1354.3
3638.3	20°	3599.8	3450.0	2898.7	2123.9	1649.6	1416.8	1334.6	1328.6	1327.8	1325.2
3741.0	22.5°	3674.3	3471.4	2715.5	1853.4	1458.7	1304.7	1290.1	1278.1	1270.4	1269.6
3865.2	25°	3762.4	3478.2	2486.0	1631.7	1296.1	1251.6	1234.5	1216.5	1211.3	1211.3
4006.4	27.5°	3848.0	3455.1	2218.9	1439.1	1204.5	1202.8	1180.5	1174.5	1173.7	1176.2
4167.3	30°	3933.6	3411.4	1953.6	1261.0	1151.4	1151.4	1143.7	1148.0	1151.4	1160.0
4388.2	32.5°	4049.2	3365.2	1731.8	1129.2	1105.2	1096.6	1104.3	1112.9	1116.3	1127.4
4678.4	35°	4218.7	3332.7	1555.5	1057.2	1057.2	1046.1	1050.4	1048.7	1041.0	1035.8
5029.4	37.5°	4443.0	3331.0	1409.9	1023.9	1017.0	1015.3	1016.2	1005.0	975.1	939.1
5454.0	40°	4712.7	3377.2	1297.8	1000.7	995.6	1005.9	1000.7	970.8	888.6	826.1
5976.2	42.5°	5074.8	3509.0	1225.9	972.5	987.9	1000.7	980.2	876.6	821.0	779.0
6571.2	45°	5501.1	3723.0	1189.1	942.5	973.4	988.8	889.5	844.1	799.6	749.1
7220.1	47.5°	5983.9	3992.7	1180.5	914.3	940.8	950.2	850.9	830.4	779.9	725.1
7872.4	50°	6509.6	4312.0	1203.6	880.9	893.7	861.2	838.1	819.3	767.0	713.1
8541.0	52.5°	7053.2	4663.9	1249.9	835.5	846.7	810.7	833.0	816.7	759.3	686.6
9231.9	55°	7587.3	5018.3	1294.4	782.4	798.7	765.3	818.4	806.4	724.2	642.1
9968.9	57.5°	8130.1	5371.0	1338.0	735.4	752.5	721.7	795.3	779.0	684.9	601.0
10773.6	60°	8694.2	5713.4	1358.6	690.0	702.0	681.4	760.2	731.9	640.3	559.0
11564.6	62.5°	9222.4	5998.5	1325.2	644.6	652.3	643.8	714.0	676.3	595.8	511.9
12389.0	65°	9752.3	6168.0	1222.5	600.1	601.8	597.5	648.9	616.4	543.6	470.8
13110.7	67.5°	10232.6	6263.0	1059.0	552.2	547.9	546.2	588.1	551.3	493.1	429.7
13659.4	70°	10334.5	6021.6	809.0	495.7	495.7	491.4	521.3	483.7	437.5	386.1
13266.5	72.5°	9439.0	5065.4	574.4	431.5	438.3	429.7	454.6	422.9	381.0	346.7
11433.7	75°	7611.3	3714.5	417.8	365.5	377.5	363.0	386.1	363.8	327.9	327.0
7879.3	77.5°	5229.7	2296.8	303.0	301.3	309.9	291.1	317.6	305.6	273.1	258.5
3429.4	80°	2231.8	916.0	220.9	232.9	232.9	215.7	246.5	250.0	221.7	214.9
661.7	82.5°	444.3	260.2	154.9	160.1	150.7	145.5	174.6	193.5	267.1	297.1
199.5	85°	133.5	95.9	93.3	87.3	77.0	77.9	102.7	194.3	239.7	137.0
65.9	87.5°	36.8	24.0	24.8	19.7	16.3	21.4	35.1	147.2	80.5	34.2
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>
3248.8
3145.2
2870.4
2424.4
1935.6
1622.3
1418.5
1357.7
1333.8
1279.0
1216.5
1183.1
1166.0
1136.9
1047.8
940.0
824.4
777.3
745.6
720.8
707.1
681.4
637.8
599.2
556.4
511.1
465.7
424.6
384.4
336.4
294.5
242.3
214.9
297.9
118.1
29.1
0.0

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