

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: P951584

Luminaire Tested: **GALN-SB5C-940-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-940-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23211 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

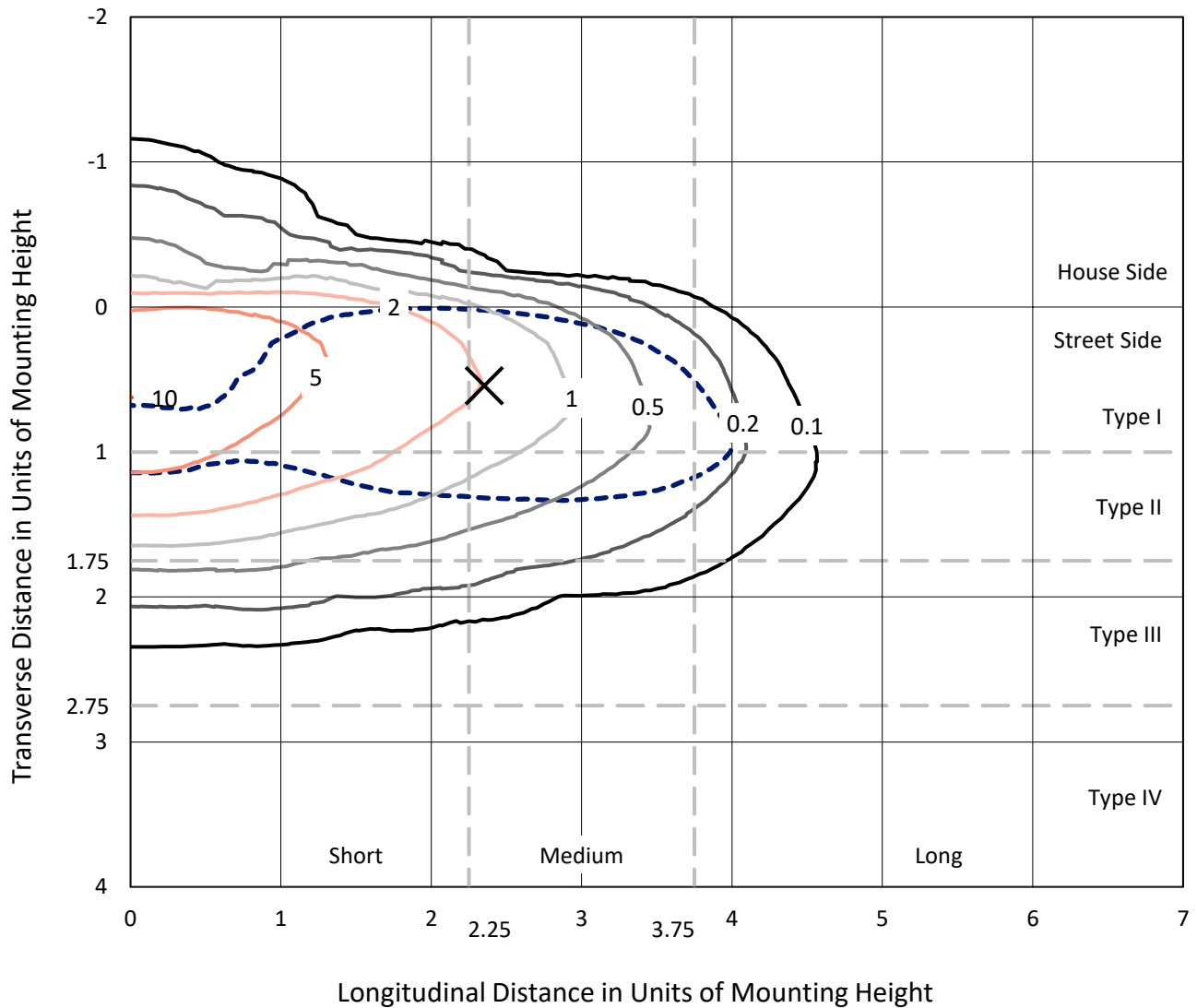
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

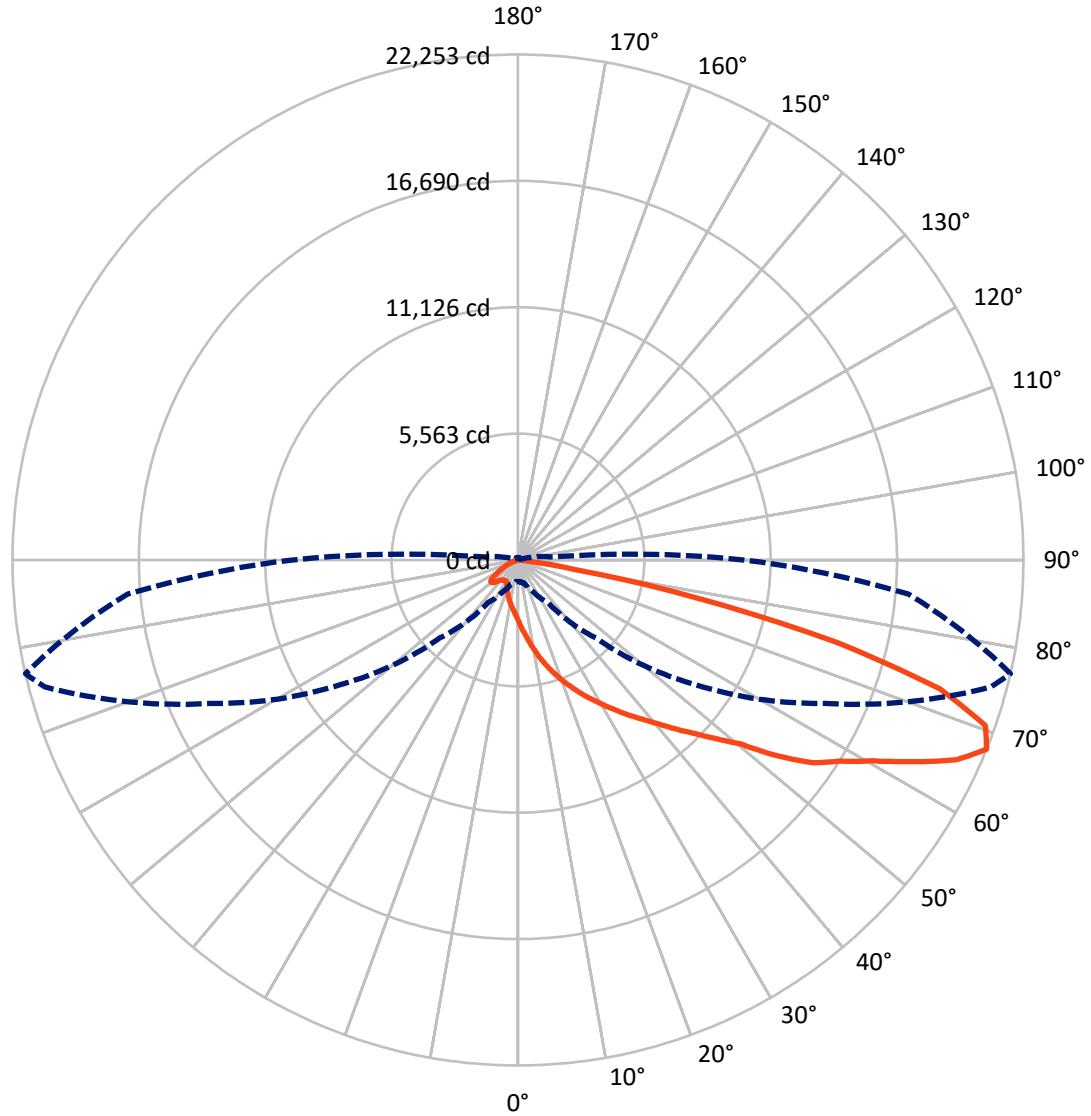
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1707.6	0.0	1707.6
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	21503.4	0.0	21503.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	23211.0	0.0	23211.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.2	1.2
10°-20°	956.7	4.1
20°-30°	1846.1	8.0
30°-40°	3205.0	13.8
40°-50°	4653.4	20.0
50°-60°	5343.9	23.0
60°-70°	4639.5	20.0
70°-80°	2185.2	9.4
80°-90°	108.1	0.5
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°	23211.0	100.0
0°-180°	23211.0	100.0

Coefficient of Utilization



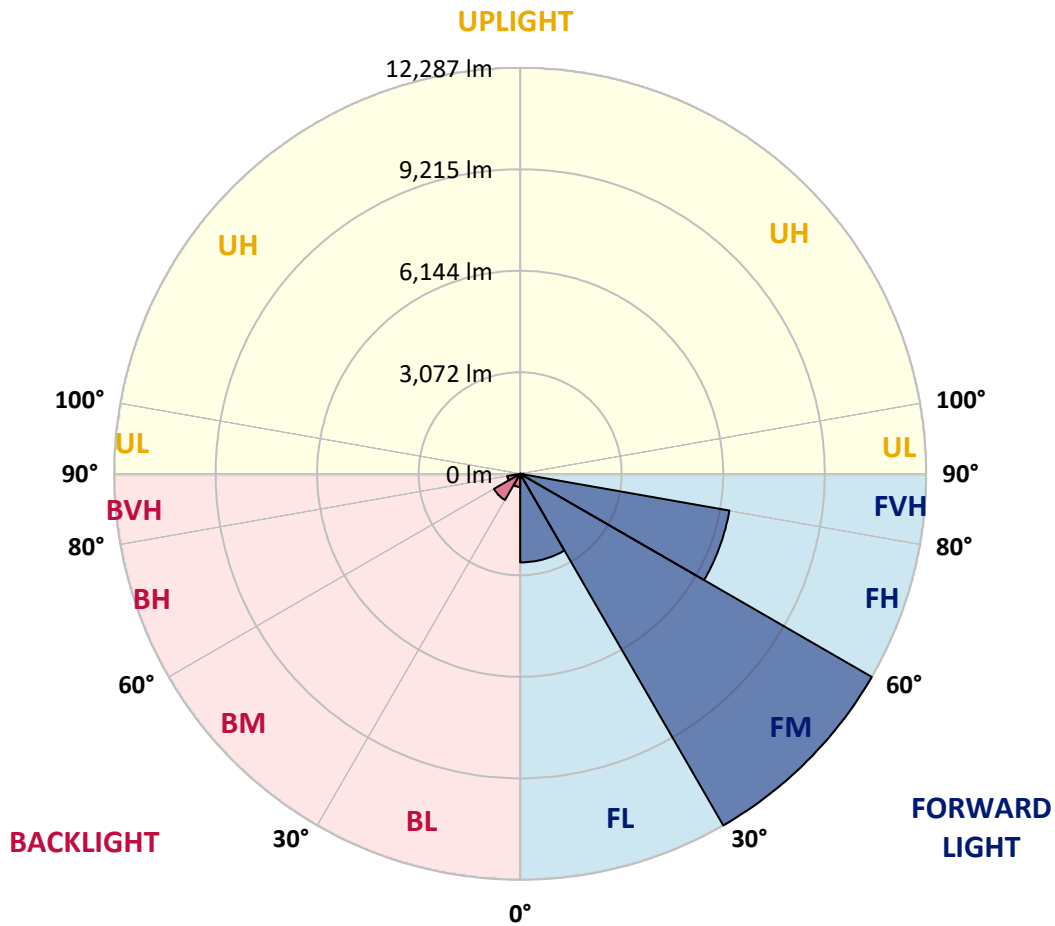
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2680.6	11.5			
FM (30°-60°)	12287.3	52.9			
FH (60°-80°)	6429.4	27.7			G3/7500
FVH (80°-90°)	106.1	0.5			G2/225
BL (0°-30°)	395.3	1.7	B1/500		
BM (30°-60°)	915.0	3.9	B1/1000		
BH (60°-80°)	395.3	1.7	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6
2.5°	3705.7	3728.7	3695.6	3632.2	3537.0	3475.1	3323.7	3181.0	3022.5	2972.0
5°	4517.2	4537.3	4499.9	4430.7	4303.8	4182.8	3983.9	3685.5	3375.6	3276.2
7.5°	5118.2	5129.7	5115.3	5051.9	4930.8	4793.9	4571.9	4218.8	3759.0	3649.5
10°	5550.6	5588.1	5583.8	5559.3	5478.5	5367.6	5131.2	4729.0	4188.5	4047.3
12.5°	5837.4	5879.2	5903.7	5958.5	5954.2	5883.6	5676.0	5250.8	4616.6	4450.9
15°	5921.0	5965.7	6059.4	6186.2	6298.7	6334.7	6189.1	5762.5	5087.9	4876.1
17.5°	5873.5	5942.6	6055.1	6255.4	6501.9	6664.8	6648.9	6256.9	5516.0	5273.9
20°	5978.7	6045.0	6132.9	6301.5	6588.4	6883.8	7002.0	6729.6	5941.2	5687.5
22.5°	6561.0	6549.5	6558.1	6585.5	6757.0	7049.6	7293.2	7159.1	6362.1	6102.6
25°	7483.4	7431.6	7343.6	7195.2	7151.9	7293.2	7546.9	7539.7	6806.0	6527.8
27.5°	8541.4	8532.7	8326.6	7969.2	7767.4	7712.6	7833.7	7910.1	7245.6	6948.7
30°	9554.6	9577.7	9299.5	8901.7	8531.3	8316.5	8207.0	8261.8	7692.4	7402.7
32.5°	10436.7	10461.3	10158.6	9693.0	9234.7	8975.2	8744.6	8609.1	8179.6	7864.0
35°	11181.9	11206.4	10859.1	10344.5	9855.9	9620.9	9360.1	8989.6	8669.7	8375.6
37.5°	11847.8	11840.6	11375.1	10856.2	10376.2	10190.3	10053.4	9458.1	9174.1	8890.2
40°	12241.3	12271.6	11873.8	11301.6	10836.0	10700.5	10691.9	10038.9	9756.4	9481.1
42.5°	12356.6	12409.9	12121.7	11651.8	11229.5	11082.5	11308.8	10667.4	10433.9	10165.8
45°	12149.1	12200.9	12069.8	11744.0	11497.6	11402.4	11839.2	11318.8	11157.4	10892.2
47.5°	11543.7	11608.6	11640.3	11571.1	11568.2	11664.8	12314.8	12004.9	12016.5	11745.5
50°	10371.9	10481.4	10772.6	11017.6	11396.7	11872.3	12777.5	12748.7	12985.0	12751.5
52.5°	8241.6	8397.3	9400.4	10070.6	10922.5	11833.4	13286.3	13942.1	14684.4	14342.8
55°	6623.0	6623.0	7438.8	8692.7	9997.1	11576.8	13508.2	14717.5	15841.8	15761.1
57.5°	5399.3	5464.1	5984.4	7092.8	8658.1	10965.7	13645.2	15204.7	16774.3	16715.2
60°	3332.4	3472.2	4455.2	5549.2	7134.6	9877.5	13558.7	15697.6	17905.8	17953.3
62.5°	1876.6	1928.5	2366.7	3992.5	5547.7	8414.5	12897.1	15972.9	19352.9	19554.7
65°	1295.8	1321.7	1490.3	2484.9	3845.5	6699.4	11604.2	15801.4	20802.9	21210.8
67.5°	941.2	954.2	1059.4	1517.7	2281.6	4857.3	9577.7	14936.6	21571.1	22252.9
70°	723.6	732.2	808.6	997.4	1347.7	2998.0	6955.9	13217.1	21014.7	21829.1
72.5°	588.1	596.7	655.8	738.0	893.6	1772.8	4215.9	10733.7	18558.7	19437.9
75°	495.8	507.4	560.7	614.0	700.5	1138.7	1977.5	7474.8	13956.5	14533.0
77.5°	275.3	253.7	455.5	508.8	590.9	720.7	925.3	4399.0	7816.4	7976.4
80°	171.5	177.3	361.8	409.3	454.0	363.2	423.8	1693.6	2709.7	2574.2
82.5°	10.1	23.1	278.2	295.5	311.3	155.7	160.0	575.1	652.9	599.6
85°	0.0	0.0	126.8	102.3	108.1	44.7	46.1	134.0	87.9	95.1
87.5°	0.0	0.0	0.0	2.9	0.0	4.3	8.6	11.5	4.3	5.8
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°
2676.6	0°	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6
2813.5	2.5°	2712.6	2611.7	2407.0	2206.7	2043.8	1892.5	1784.4	1682.0	1630.2	1627.3
2995.1	5°	2794.8	2582.9	2173.5	1811.8	1520.6	1287.1	1135.8	1027.7	972.9	954.2
3218.5	7.5°	2910.1	2591.5	1968.9	1465.8	1122.8	922.5	836.0	801.4	789.9	776.9
3470.7	10°	3055.6	2611.7	1785.8	1180.5	885.0	784.1	749.5	735.1	726.4	717.8
3754.7	12.5°	3218.5	2630.4	1604.2	980.1	778.3	726.4	701.9	684.6	673.1	663.0
4045.8	15°	3377.1	2642.0	1415.4	840.3	723.6	681.8	655.8	637.1	621.2	609.7
4331.2	17.5°	3534.2	2657.8	1238.1	756.7	678.9	637.1	611.1	588.1	575.1	562.1
4631.0	20°	3708.6	2654.9	1070.9	697.6	634.2	592.4	565.0	543.4	530.4	516.0
4948.1	22.5°	3870.0	2640.5	923.9	647.2	588.1	547.7	517.4	495.8	482.8	471.3
5272.4	25°	4055.9	2629.0	801.4	601.0	544.8	504.5	471.3	451.1	436.7	426.6
5598.2	27.5°	4234.7	2611.7	712.0	559.2	503.0	464.1	432.4	409.3	396.4	389.2
5934.0	30°	4410.5	2607.4	678.9	518.9	465.6	426.6	394.9	373.3	363.2	360.3
6303.0	32.5°	4622.4	2618.9	693.3	504.5	431.0	392.0	361.8	345.9	335.8	335.8
6713.8	35°	4848.7	2616.0	714.9	517.4	407.9	357.5	334.4	324.3	314.2	314.2
7169.2	37.5°	5132.6	2620.4	732.2	539.1	399.3	328.6	315.7	302.7	296.9	296.9
7667.9	40°	5556.4	2763.0	723.6	557.8	396.4	308.4	282.5	278.2	273.9	273.9
8231.5	42.5°	6075.3	3072.9	735.1	559.2	394.9	294.0	259.4	268.1	258.0	256.6
8867.1	45°	6643.1	3411.7	808.6	529.0	393.5	286.8	247.9	258.0	242.1	242.1
9603.7	47.5°	7206.7	3747.5	883.5	485.7	389.2	285.4	237.8	232.1	227.7	229.2
10563.6	50°	7983.6	4021.3	912.4	426.6	379.1	282.5	219.1	220.5	217.6	220.5
11917.0	52.5°	8829.7	4079.0	877.8	360.3	350.2	273.9	206.1	211.9	210.4	213.3
12869.7	55°	9357.2	4017.0	725.0	299.8	305.6	239.3	193.1	204.7	204.7	204.7
13800.8	57.5°	9902.0	3753.3	514.6	243.6	253.7	196.0	181.6	197.5	196.0	194.6
14922.2	60°	10294.1	3326.6	338.7	200.3	201.8	161.4	168.6	185.9	184.5	177.3
16078.2	62.5°	10586.6	2855.3	217.6	170.1	154.2	145.6	154.2	168.6	162.9	147.0
17058.3	65°	10553.5	2202.4	167.2	145.6	126.8	126.8	134.0	147.0	129.7	103.8
17245.6	67.5°	9938.0	1490.3	138.4	122.5	106.7	105.2	111.0	122.5	111.0	87.9
16285.7	70°	8838.3	974.3	111.0	95.1	85.0	77.8	89.4	105.2	93.7	70.6
13864.3	72.5°	7173.6	593.8	83.6	69.2	62.0	50.4	70.6	86.5	74.9	51.9
9641.1	75°	4641.1	302.7	57.7	44.7	33.2	30.3	51.9	64.9	51.9	31.7
4277.9	77.5°	1775.7	126.8	31.7	20.2	17.3	14.4	28.8	38.9	21.6	7.2
828.8	80°	341.6	53.3	15.9	10.1	8.6	5.8	4.3	2.9	0.0	0.0
147.0	82.5°	59.1	17.3	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
28.8	85°	20.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.1	87.5°	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
2676.6
1624.4
951.3
774.0
714.9
660.1
608.2
560.7
514.6
469.9
425.2
389.2
358.9
335.8
314.2
296.9
273.9
255.1
242.1
229.2
220.5
213.3
204.7
194.6
177.3
144.1
100.9
85.0
67.7
49.0
27.4
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