

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: P954349

Luminaire Tested: **GALN-SB7C-850-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954349
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-SB7C-850-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 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: 50636 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

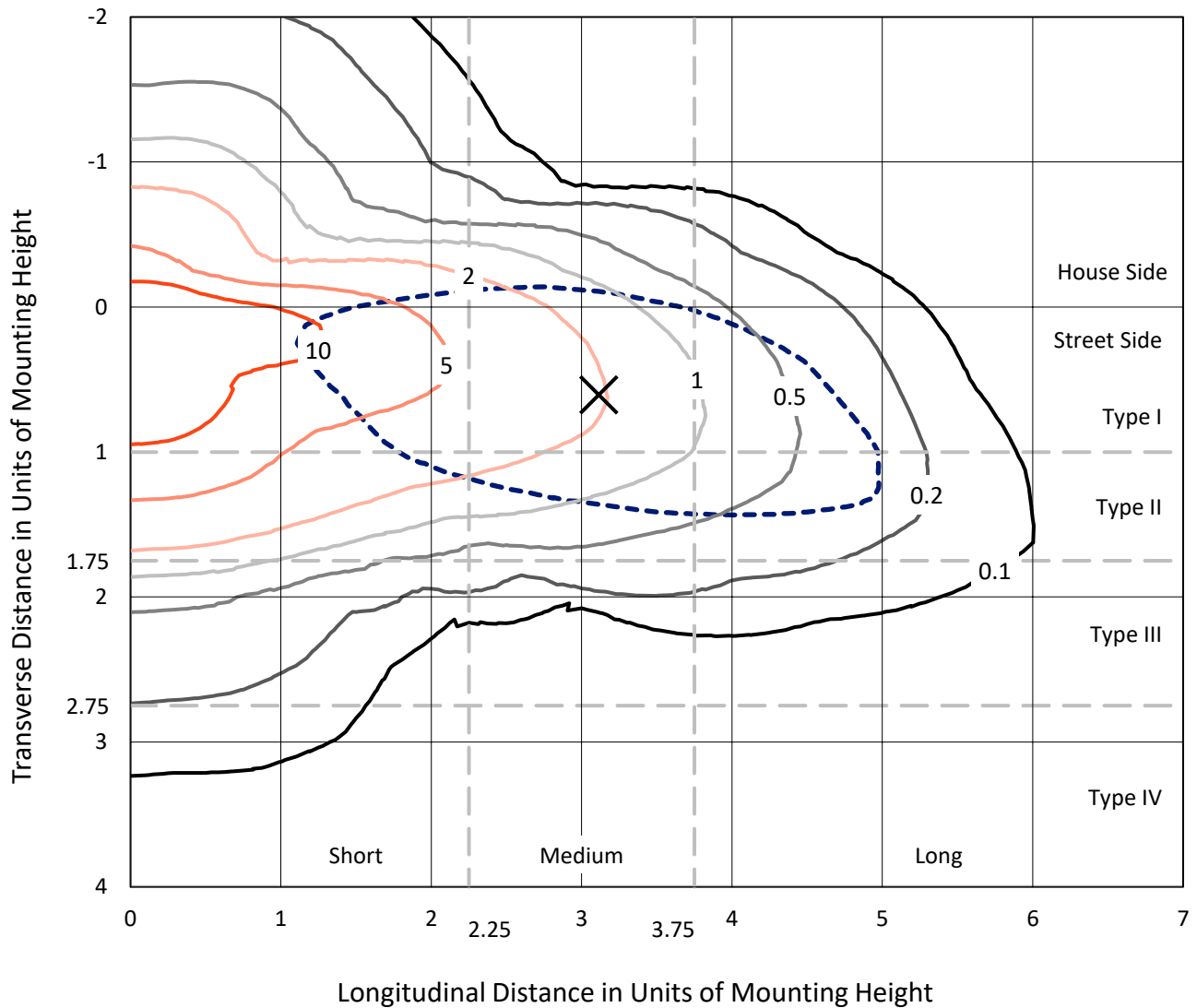
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

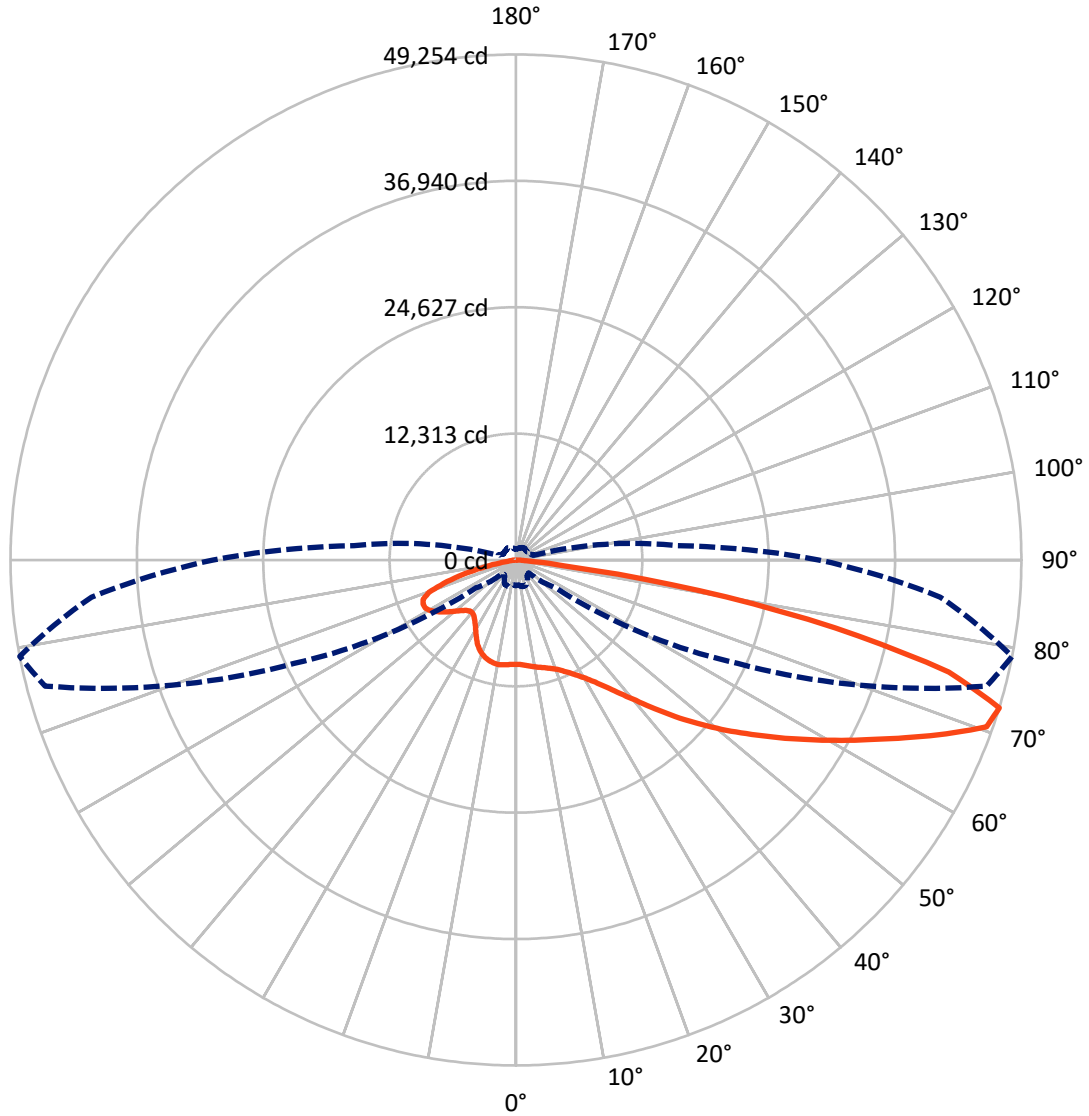
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 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	11142.7	0.0	11142.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	39493.3	0.0	39493.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	50636.0	0.0	50636.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	922.7	1.8
10°-20°	2412.3	4.8
20°-30°	3892.5	7.7
30°-40°	5842.0	11.5
40°-50°	8287.2	16.4
50°-60°	10465.7	20.7
60°-70°	10629.3	21.0
70°-80°	7244.4	14.3
80°-90°	939.9	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°	50636.0	100.0
0°-180°	50636.0	100.0



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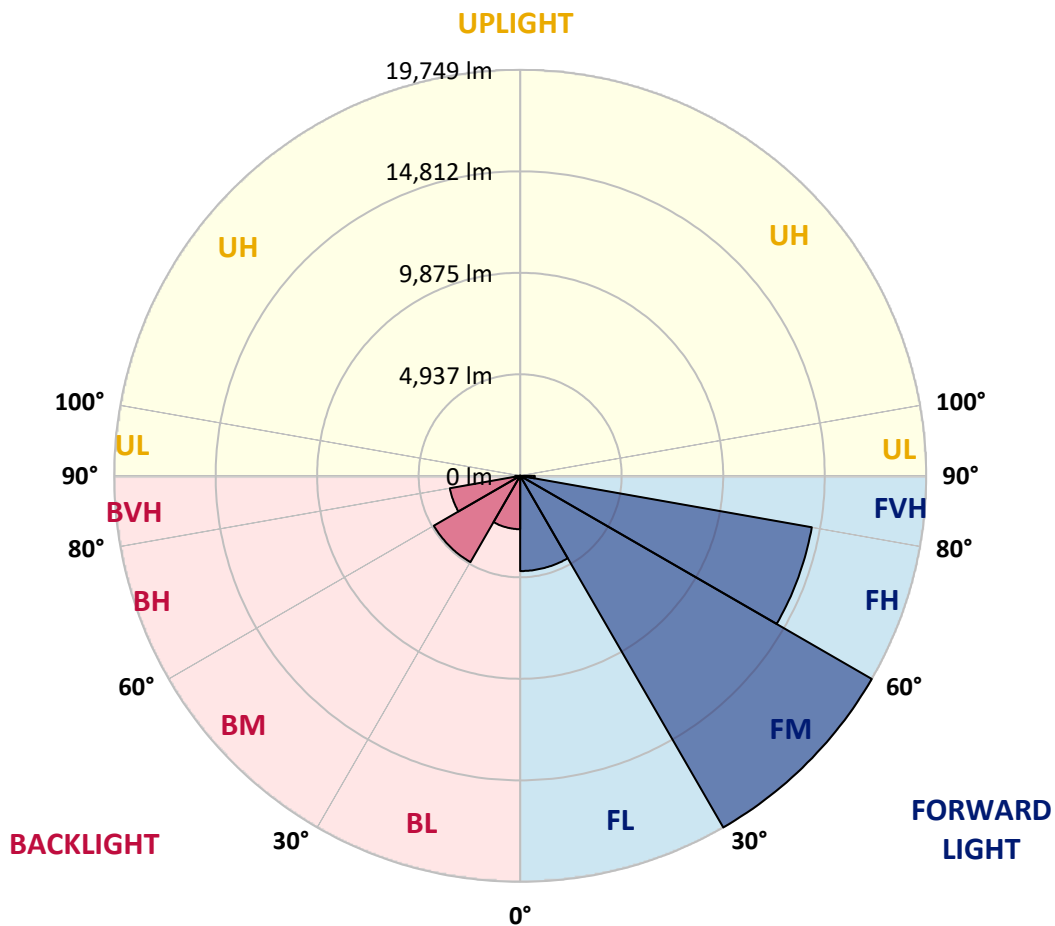
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4632.0	9.1			
FM (30°-60°)	19749.1	39.0			
FH (60°-80°)	14404.2	28.4			G5
FVH (80°-90°)	708.0	1.4			G4/750
BL (0°-30°)	2595.5	5.1	B4/5000		
BM (30°-60°)	4845.9	9.6	B3/5000		
BH (60°-80°)	3469.5	6.9	B4/5000		G4/5000
BVH (80°-90°)	231.9	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	10164.7	10164.7	10164.7	10164.7	10164.7	10164.7	10164.7	10164.7	10164.7	10164.7
2.5°	10170.1	10121.8	10151.3	10140.6	10154.0	10170.1	10175.4	10183.4	10210.2	10207.6
5°	10148.6	10100.4	10140.6	10127.2	10162.0	10199.5	10231.7	10261.1	10304.0	10322.7
7.5°	10103.1	10071.0	10111.1	10151.3	10215.6	10271.8	10317.4	10384.3	10445.9	10456.6
10°	9837.9	9813.8	9907.6	10012.0	10188.8	10341.5	10440.6	10518.3	10585.2	10595.9
12.5°	9562.0	9532.6	9637.0	9779.0	10065.6	10341.5	10550.4	10652.2	10711.1	10745.9
15°	9516.5	9492.4	9551.3	9674.5	9912.9	10269.2	10625.4	10812.9	10863.8	10903.9
17.5°	9736.1	9690.6	9714.7	9757.6	9896.9	10202.2	10684.3	10995.0	11072.7	11115.5
20°	10245.0	10180.8	10143.3	10057.6	10033.5	10212.9	10679.0	11214.6	11316.4	11370.0
22.5°	10922.7	10879.8	10799.5	10582.5	10346.8	10344.2	10780.7	11495.9	11686.1	11736.9
25°	11742.3	11678.0	11576.2	11281.6	10828.9	10604.0	10952.2	11854.8	12173.5	12186.9
27.5°	12685.1	12588.7	12449.4	12061.0	11450.3	11011.1	11214.6	12267.3	12733.3	12728.0
30°	13678.8	13582.4	13435.1	12963.7	12195.0	11560.2	11578.9	12711.9	13397.6	13368.1
32.5°	14404.7	14332.4	14302.9	13938.6	13052.1	12208.3	11996.8	13204.7	14217.2	14190.4
35°	14961.8	14868.0	14902.9	14718.1	13986.8	12934.2	12508.3	13791.3	15213.6	15210.9
37.5°	15513.5	15430.5	15460.0	15336.8	14852.0	13855.6	13132.4	14509.1	16448.3	16507.3
40°	16017.1	15928.7	16046.6	15931.4	15524.3	14835.9	13842.2	15320.7	17878.6	17991.1
42.5°	16319.8	16250.1	16445.6	16448.3	16108.2	15663.5	14621.6	16215.3	19533.9	19785.7
45°	16424.2	16400.1	16694.7	16756.3	16625.1	16143.0	15323.4	17190.3	21317.7	21767.7
47.5°	16311.7	16266.2	16673.3	16901.0	17005.4	16368.0	15904.6	18245.6	23139.1	23798.0
50°	15743.9	15655.5	16260.8	16740.3	17112.6	16515.3	16491.2	19464.3	25209.5	25930.0
52.5°	14723.4	14656.4	15344.8	16177.8	16876.9	16587.6	17150.1	20795.4	27175.5	28107.6
55°	13419.0	13330.6	14088.6	15176.1	16290.3	16563.5	17809.0	22284.7	29495.0	30440.5
57.5°	11351.2	11174.5	12133.4	13419.0	15334.1	16534.0	18494.7	23765.8	31852.1	32985.0
60°	8335.3	8072.8	9248.7	10772.7	13464.5	16247.4	19343.7	25426.5	34680.5	35701.0
62.5°	4853.3	4700.7	5469.4	6891.6	10148.6	14560.0	19820.5	27357.6	37460.7	38532.1
65°	3768.6	3725.7	3792.7	3902.5	5648.8	10901.3	18350.0	29240.6	40996.3	41746.2
67.5°	3447.2	3415.0	3444.5	3238.2	2865.9	6072.0	14517.2	29717.3	44783.6	45238.9
70°	3064.1	3026.6	3123.1	2946.3	2255.2	2761.5	9379.9	27987.1	47796.8	48651.3
72.5°	2496.3	2453.5	2678.4	2598.1	1899.0	1773.1	4711.4	23875.7	47480.8	49253.9
75°	1917.8	1893.7	2161.5	2228.5	1548.1	1395.5	2260.6	17747.4	41783.7	43570.3
77.5°	1489.2	1470.5	1607.1	1850.8	1248.2	1082.1	1390.1	11257.5	31487.8	31801.2
80°	1116.9	1063.3	1189.2	1433.0	972.3	790.1	942.8	6564.9	19903.5	18042.0
82.5°	699.1	672.3	776.7	956.2	685.7	543.7	613.4	3626.6	7976.4	4698.0
85°	399.1	388.4	423.2	546.4	372.3	313.4	350.9	1601.7	1457.1	1001.7
87.5°	160.7	155.3	192.8	243.7	136.6	115.2	123.2	385.7	321.4	297.3
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°
10164.7	0°	10164.7	10164.7	10164.7	10164.7	10164.7	10164.7	10164.7	10164.7	10164.7	10164.7
10204.9	2.5°	10194.2	10194.2	10156.7	10097.7	10030.8	9987.9	9918.3	9899.5	9827.2	9805.8
10295.9	5°	10317.4	10295.9	10180.8	10014.7	9787.0	9578.1	9347.8	9203.1	8999.6	8927.3
10475.4	7.5°	10472.7	10413.8	10215.6	9851.3	9374.6	8905.8	8418.3	8048.7	7695.2	7569.3
10622.7	10°	10614.7	10531.6	10194.2	9556.7	8731.7	7920.2	7143.4	6599.7	6187.2	6018.5
10786.1	12.5°	10756.6	10604.0	10052.2	9066.5	7818.4	6717.5	5889.9	5466.7	5212.3	5008.7
10920.0	15°	10890.6	10676.3	9832.6	8410.3	6816.6	5699.7	5089.0	4751.6	4548.0	4414.1
11115.5	17.5°	11045.9	10737.9	9503.1	7577.3	5863.1	4995.3	4497.1	4293.5	4253.4	4237.3
11383.4	20°	11262.9	10794.1	9069.2	6645.2	5161.4	4432.8	4175.7	4156.9	4154.3	4146.2
11704.8	22.5°	11495.9	10861.1	8496.0	5798.8	4564.1	4081.9	4036.4	3998.9	3974.8	3972.1
12093.2	25°	11771.8	10882.5	7778.2	5105.1	4055.2	3915.9	3862.3	3806.1	3790.0	3790.0
12535.1	27.5°	12039.6	10810.2	6942.5	4502.5	3768.6	3763.2	3693.6	3674.8	3672.1	3680.2
13038.7	30°	12307.5	10673.6	6112.2	3945.3	3602.5	3602.5	3578.4	3591.8	3602.5	3629.3
13729.7	32.5°	12669.0	10529.0	5418.5	3532.9	3457.9	3431.1	3455.2	3482.0	3492.7	3527.5
14637.7	35°	13199.4	10427.2	4866.7	3307.9	3307.9	3273.1	3286.5	3281.1	3257.0	3240.9
15735.9	37.5°	13901.1	10421.8	4411.4	3203.4	3182.0	3176.6	3179.3	3144.5	3050.7	2938.3
17064.4	40°	14744.8	10566.5	4060.5	3131.1	3115.0	3147.2	3131.1	3037.4	2780.2	2584.7
18698.2	42.5°	15877.8	10978.9	3835.5	3042.7	3090.9	3131.1	3066.8	2742.7	2568.6	2437.4
20559.7	45°	17211.7	11648.6	3720.4	2949.0	3045.4	3093.6	2782.9	2640.9	2501.7	2343.6
22590.0	47.5°	18722.3	12492.3	3693.6	2860.6	2943.6	2973.1	2662.4	2598.1	2440.1	2268.6
24631.0	50°	20366.9	13491.3	3765.9	2756.1	2796.3	2694.5	2622.2	2563.3	2399.9	2231.1
26722.8	52.5°	22067.7	14592.2	3910.5	2614.2	2649.0	2536.5	2606.1	2555.2	2375.8	2148.1
28884.3	55°	23739.1	15701.0	4049.8	2448.1	2499.0	2394.5	2560.6	2523.1	2266.0	2008.8
31190.5	57.5°	25437.2	16804.6	4186.4	2300.8	2354.4	2257.9	2488.3	2437.4	2142.8	1880.3
33708.2	60°	27202.3	17875.9	4250.7	2158.8	2196.3	2132.0	2378.5	2290.1	2003.5	1749.0
36183.1	62.5°	28854.9	18767.9	4146.2	2016.9	2041.0	2014.2	2233.8	2116.0	1864.2	1601.7
38762.4	65°	30512.8	19298.2	3824.8	1877.6	1882.9	1869.6	2030.3	1928.5	1700.8	1473.1
41020.4	67.5°	32015.4	19595.5	3313.2	1727.6	1714.2	1708.8	1840.1	1724.9	1542.8	1344.6
42737.3	70°	32334.2	18840.2	2531.1	1550.8	1550.8	1537.4	1631.2	1513.3	1368.7	1208.0
41507.8	72.5°	29532.5	15848.4	1797.2	1349.9	1371.4	1344.6	1422.3	1323.2	1191.9	1084.8
35773.3	75°	23814.0	11621.8	1307.1	1143.7	1181.2	1135.7	1208.0	1138.3	1025.8	1023.2
24652.4	77.5°	16362.6	7186.3	948.2	942.8	969.6	910.7	993.7	956.2	854.4	808.9
10729.8	80°	6982.7	2865.9	691.0	728.5	728.5	675.0	771.4	782.1	693.7	672.3
2070.4	82.5°	1390.1	814.2	484.8	500.9	471.4	455.3	546.4	605.3	835.7	929.4
624.1	85°	417.8	300.0	292.0	273.2	241.1	243.7	321.4	608.0	750.0	428.6
206.2	87.5°	115.2	75.0	77.7	61.6	50.9	67.0	109.8	460.7	251.8	107.1
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>
10164.7
9840.6
8980.8
7585.4
6056.0
5075.7
4438.2
4248.0
4173.0
4001.6
3806.1
3701.6
3648.0
3557.0
3278.4
2940.9
2579.3
2432.0
2332.9
2255.2
2212.4
2132.0
1995.4
1874.9
1741.0
1599.0
1457.1
1328.5
1202.6
1052.6
921.4
758.0
672.3
932.1
369.6
91.1
0.0

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