

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: P952921

Luminaire Tested: **GALN-SB6C-850-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952921
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-SB6C-850-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 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: 43177 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

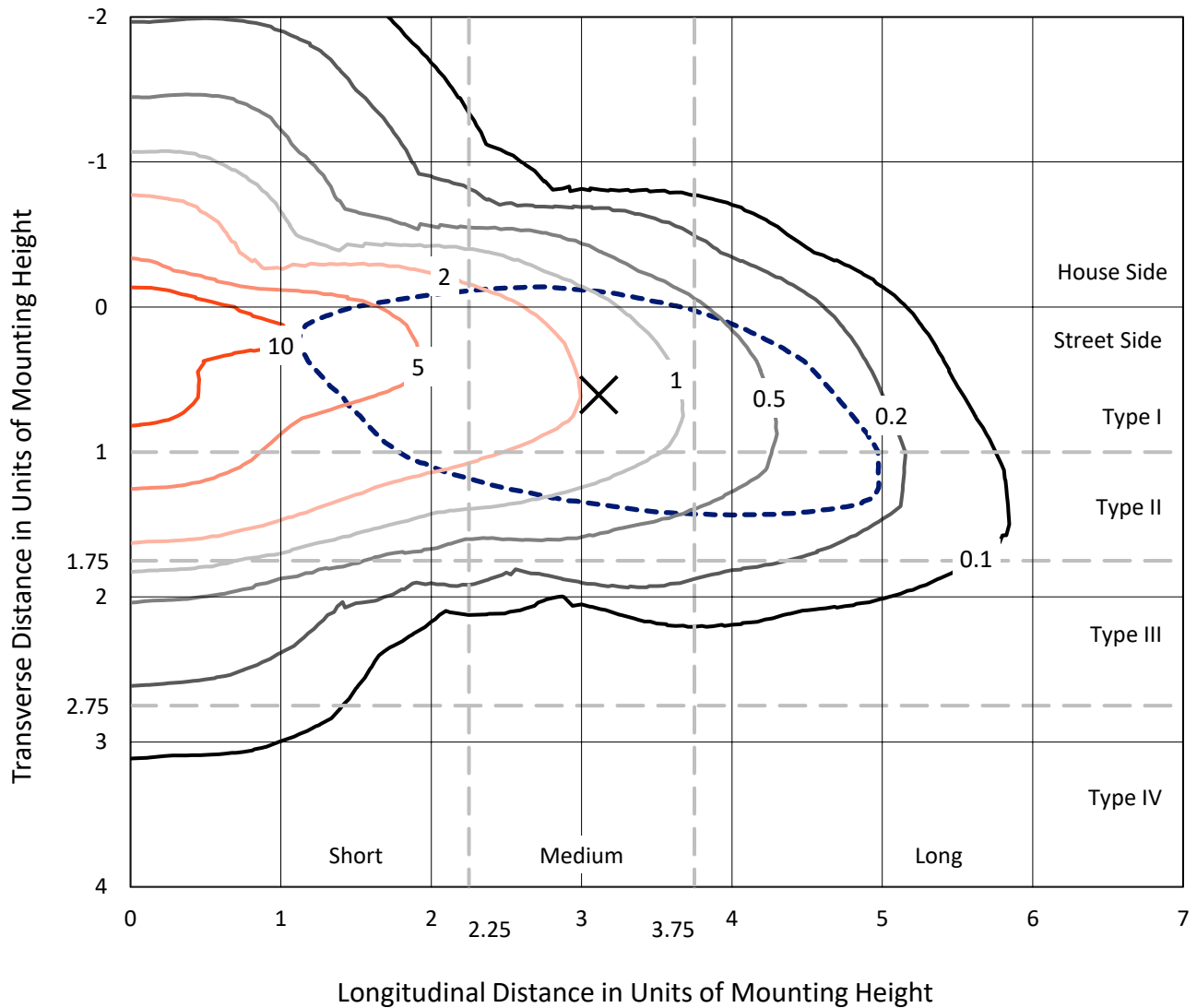
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

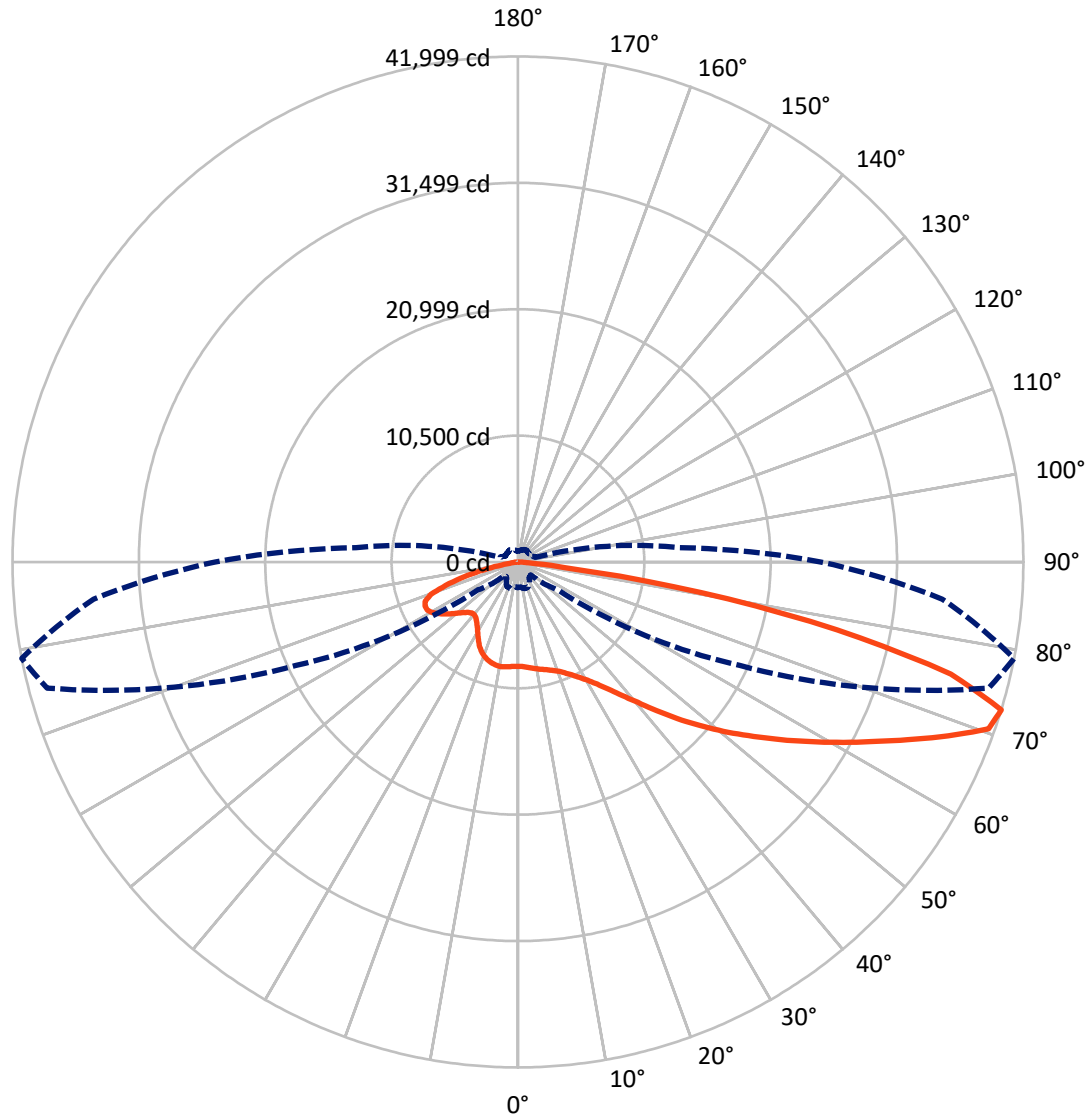
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 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	9501.3	0.0	9501.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	33675.7	0.0	33675.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	43177.0	0.0	43177.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	786.8	1.8
10°-20°	2057.0	4.8
20°-30°	3319.1	7.7
30°-40°	4981.5	11.5
40°-50°	7066.5	16.4
50°-60°	8924.0	20.7
60°-70°	9063.6	21.0
70°-80°	6177.2	14.3
80°-90°	801.4	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°	43177.0	100.0
0°-180°	43177.0	100.0



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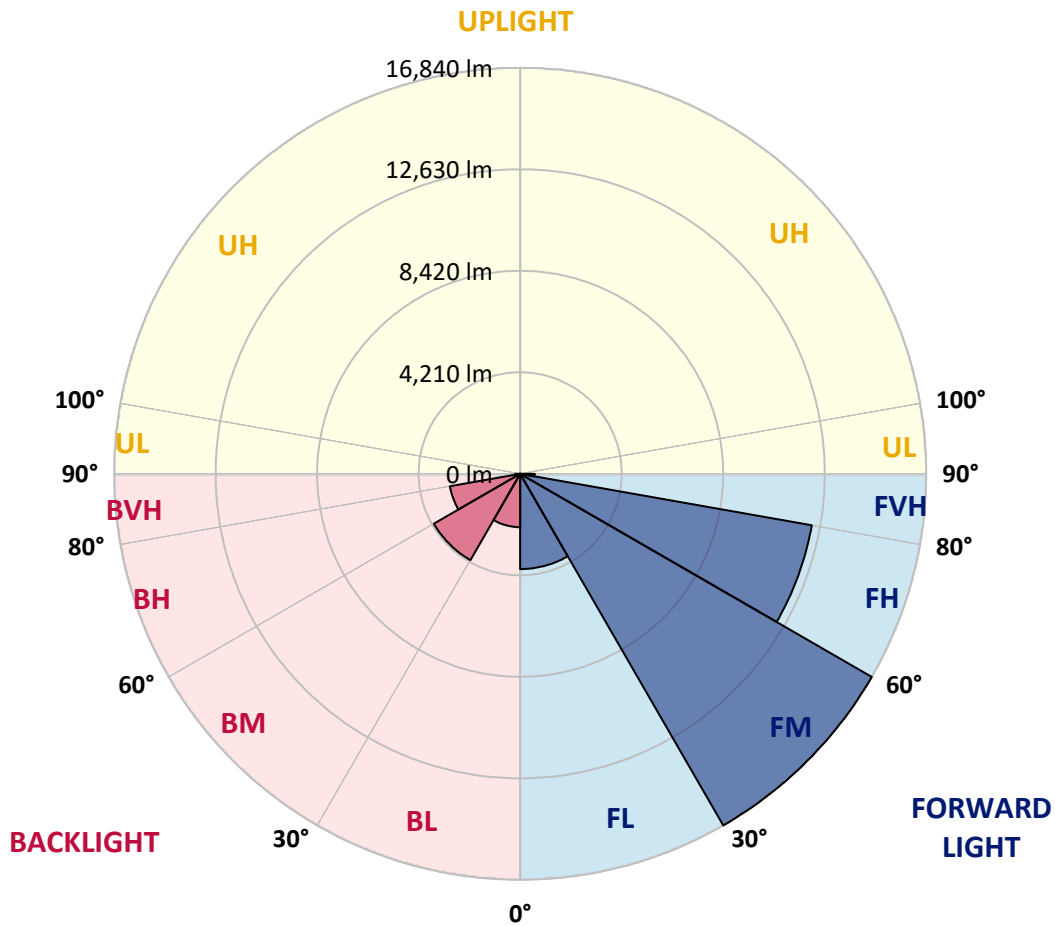
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3949.7	9.1			
FM (30°-60°)	16839.9	39.0			
FH (60°-80°)	12282.4	28.4			G5
FVH (80°-90°)	603.7	1.4			G4/750
BL (0°-30°)	2213.1	5.1	B3/2500		
BM (30°-60°)	4132.1	9.6	B3/5000		
BH (60°-80°)	2958.4	6.9	B4/5000		G4/5000
BVH (80°-90°)	197.7	0.5			G2/225
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°	8667.4	8667.4	8667.4	8667.4	8667.4	8667.4	8667.4	8667.4	8667.4	8667.4
2.5°	8671.9	8630.8	8656.0	8646.8	8658.2	8671.9	8676.5	8683.4	8706.2	8703.9
5°	8653.7	8612.6	8646.8	8635.4	8665.1	8697.1	8724.5	8749.6	8786.1	8802.1
7.5°	8614.8	8587.4	8621.7	8656.0	8710.8	8758.7	8797.6	8854.7	8907.2	8916.3
10°	8388.7	8368.2	8448.1	8537.2	8687.9	8818.1	8902.6	8968.8	9025.9	9035.1
12.5°	8153.5	8128.4	8217.4	8338.5	8582.9	8818.1	8996.3	9083.0	9133.3	9163.0
15°	8114.7	8094.1	8144.4	8249.4	8452.7	8756.4	9060.2	9220.1	9263.5	9297.7
17.5°	8301.9	8263.1	8283.7	8320.2	8439.0	8699.3	9110.4	9375.4	9441.6	9478.2
20°	8735.9	8681.1	8649.1	8576.0	8555.5	8708.5	9105.9	9562.7	9649.4	9695.1
22.5°	9313.7	9277.2	9208.7	9023.7	8822.7	8820.4	9192.7	9802.5	9964.6	10008.0
25°	10012.6	9957.8	9871.0	9619.8	9233.8	9041.9	9338.8	10108.5	10380.3	10391.7
27.5°	10816.5	10734.3	10615.5	10284.4	9763.6	9389.1	9562.7	10460.2	10857.6	10853.1
30°	11663.8	11581.6	11456.0	11054.0	10398.6	9857.3	9873.3	10839.4	11424.0	11398.9
32.5°	12282.8	12221.1	12196.0	11885.4	11129.4	10410.0	10229.6	11259.6	12122.9	12100.1
35°	12757.8	12677.9	12707.6	12550.0	11926.5	11028.9	10665.8	11759.8	12972.5	12970.2
37.5°	13228.3	13157.5	13182.6	13077.6	12664.2	11814.6	11197.9	12371.8	14025.4	14075.6
40°	13657.7	13582.3	13682.8	13584.6	13237.4	12650.5	11803.2	13063.9	15245.0	15340.9
42.5°	13915.8	13856.4	14023.1	14025.4	13735.3	13356.2	12467.8	13826.7	16656.4	16871.1
45°	14004.8	13984.3	14235.5	14288.0	14176.1	13765.0	13066.1	14658.0	18177.5	18561.2
47.5°	13908.9	13870.1	14217.2	14411.4	14500.4	13956.9	13561.8	15557.9	19730.5	20292.4
50°	13424.7	13349.4	13865.5	14274.3	14591.8	14082.5	14061.9	16597.0	21496.0	22110.4
52.5°	12554.6	12497.5	13084.4	13794.7	14390.8	14144.1	14623.8	17732.1	23172.4	23967.2
55°	11442.3	11366.9	12013.3	12940.5	13890.6	14123.6	15185.6	19002.0	25150.2	25956.4
57.5°	9679.1	9528.4	10346.0	11442.3	13075.3	14098.5	15770.3	20265.0	27160.1	28126.1
60°	7107.5	6883.7	7886.3	9185.8	11481.1	13854.1	16494.3	21681.0	29571.8	30442.0
62.5°	4138.4	4008.2	4663.7	5876.5	8653.7	12415.2	16900.8	23327.7	31942.5	32856.1
65°	3213.4	3176.9	3234.0	3327.6	4816.7	9295.4	15646.9	24933.3	34957.3	35596.7
67.5°	2939.4	2912.0	2937.1	2761.2	2443.8	5177.6	12378.7	25339.8	38186.7	38574.9
70°	2612.8	2580.8	2663.0	2512.3	1923.0	2354.7	7998.2	23864.4	40756.1	41484.6
72.5°	2128.6	2092.0	2283.9	2215.4	1619.3	1511.9	4017.4	20358.6	40486.6	41998.5
75°	1635.3	1614.7	1843.1	1900.2	1320.1	1189.9	1927.6	15133.1	35628.7	37152.1
77.5°	1269.8	1253.9	1370.3	1578.2	1064.3	922.7	1185.3	9599.2	26849.4	27116.7
80°	952.4	906.7	1014.0	1221.9	829.1	673.7	803.9	5597.8	16971.6	15384.3
82.5°	596.1	573.3	662.3	815.3	584.7	463.6	523.0	3092.4	6801.4	4005.9
85°	340.3	331.2	360.9	465.9	317.5	267.2	299.2	1365.8	1242.4	854.2
87.5°	137.0	132.5	164.4	207.8	116.5	98.2	105.1	328.9	274.1	253.5
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°
8667.4	0°	8667.4	8667.4	8667.4	8667.4	8667.4	8667.4	8667.4	8667.4	8667.4	8667.4
8701.6	2.5°	8692.5	8692.5	8660.5	8610.3	8553.2	8516.6	8457.3	8441.3	8379.6	8361.3
8779.3	5°	8797.6	8779.3	8681.1	8539.5	8345.3	8167.2	7970.8	7847.5	7673.9	7612.2
8932.3	7.5°	8930.0	8879.8	8710.8	8400.2	7993.6	7593.9	7178.3	6863.1	6561.6	6454.3
9057.9	10°	9051.1	8980.3	8692.5	8148.9	7445.5	6753.5	6091.1	5627.5	5275.8	5131.9
9197.2	12.5°	9172.1	9041.9	8571.4	7731.0	6666.7	5728.0	5022.3	4661.4	4444.5	4270.9
9311.4	15°	9286.3	9103.6	8384.2	7171.4	5812.5	4860.1	4339.4	4051.6	3878.0	3763.9
9478.2	17.5°	9418.8	9156.1	8103.3	6461.1	4999.4	4259.5	3834.7	3661.1	3626.8	3613.1
9706.5	20°	9603.8	9204.1	7733.3	5666.3	4401.1	3779.8	3560.6	3544.6	3542.3	3535.5
9980.6	22.5°	9802.5	9261.2	7244.5	4944.6	3891.8	3480.7	3441.8	3409.9	3389.3	3387.0
10311.8	25°	10037.7	9279.5	6632.4	4353.1	3457.8	3339.1	3293.4	3245.4	3231.7	3231.7
10688.6	27.5°	10266.1	9217.8	5919.8	3839.2	3213.4	3208.9	3149.5	3133.5	3131.2	3138.1
11118.0	30°	10494.5	9101.3	5211.8	3364.2	3071.8	3071.8	3051.3	3062.7	3071.8	3094.7
11707.2	32.5°	10802.8	8978.0	4620.3	3012.5	2948.5	2925.7	2946.2	2969.1	2978.2	3007.9
12481.5	35°	11255.0	8891.2	4149.8	2820.6	2820.6	2790.9	2802.3	2797.8	2777.2	2763.5
13417.9	37.5°	11853.4	8886.6	3761.6	2731.5	2713.3	2708.7	2711.0	2681.3	2601.4	2505.4
14550.7	40°	12572.8	9010.0	3462.4	2669.9	2656.2	2683.6	2669.9	2589.9	2370.7	2204.0
15943.9	42.5°	13538.9	9361.7	3270.5	2594.5	2635.6	2669.9	2615.1	2338.7	2190.3	2078.3
17531.2	45°	14676.3	9932.6	3172.3	2514.6	2596.8	2637.9	2373.0	2251.9	2133.2	1998.4
19262.3	47.5°	15964.4	10652.1	3149.5	2439.2	2510.0	2535.1	2270.2	2215.4	2080.6	1934.5
21002.7	50°	17366.7	11504.0	3211.2	2350.1	2384.4	2297.6	2235.9	2185.7	2046.4	1902.5
22786.4	52.5°	18817.0	12442.6	3334.5	2229.1	2258.8	2162.8	2222.2	2178.8	2025.8	1831.7
24629.5	55°	20242.1	13388.2	3453.2	2087.5	2130.9	2041.8	2183.4	2151.4	1932.2	1712.9
26595.9	57.5°	21690.1	14329.1	3569.7	1961.9	2007.5	1925.3	2121.7	2078.3	1827.1	1603.3
28742.8	60°	23195.2	15242.7	3624.5	1840.8	1872.8	1818.0	2028.1	1952.7	1708.4	1491.4
30853.1	62.5°	24604.4	16003.2	3535.5	1719.8	1740.3	1717.5	1904.8	1804.3	1589.6	1365.8
33052.5	65°	26018.1	16455.4	3261.4	1601.0	1605.6	1594.2	1731.2	1644.4	1450.3	1256.1
34977.8	67.5°	27299.4	16709.0	2825.2	1473.1	1461.7	1457.1	1569.0	1470.8	1315.5	1146.5
36441.8	70°	27571.2	16064.9	2158.3	1322.4	1322.4	1311.0	1390.9	1290.4	1167.1	1030.0
35393.5	72.5°	25182.2	13513.8	1532.5	1151.1	1169.4	1146.5	1212.7	1128.2	1016.3	925.0
30503.7	75°	20306.1	9909.8	1114.5	975.2	1007.2	968.4	1030.0	970.7	874.7	872.4
21020.9	77.5°	13952.3	6127.7	808.5	803.9	826.8	776.5	847.3	815.3	728.6	689.7
9149.3	80°	5954.1	2443.8	589.2	621.2	621.2	575.5	657.8	666.9	591.5	573.3
1765.4	82.5°	1185.3	694.3	413.4	427.1	402.0	388.3	465.9	516.2	712.6	792.5
532.1	85°	356.3	255.8	248.9	233.0	205.6	207.8	274.1	518.4	639.5	365.4
175.9	87.5°	98.2	63.9	66.2	52.5	43.4	57.1	93.6	392.8	214.7	91.4
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>
8667.4
8391.0
7657.9
6468.0
5163.9
4328.0
3784.4
3622.3
3558.3
3412.1
3245.4
3156.3
3110.7
3033.0
2795.5
2507.7
2199.4
2073.8
1989.3
1923.0
1886.5
1818.0
1701.5
1598.7
1484.5
1363.5
1242.4
1132.8
1025.5
897.6
785.7
646.3
573.3
794.8
315.2
77.7
0.0

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