

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: P951472

Luminaire Tested: **GALN-SB5C-840-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951472
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-SB5C-840-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 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: 35967 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

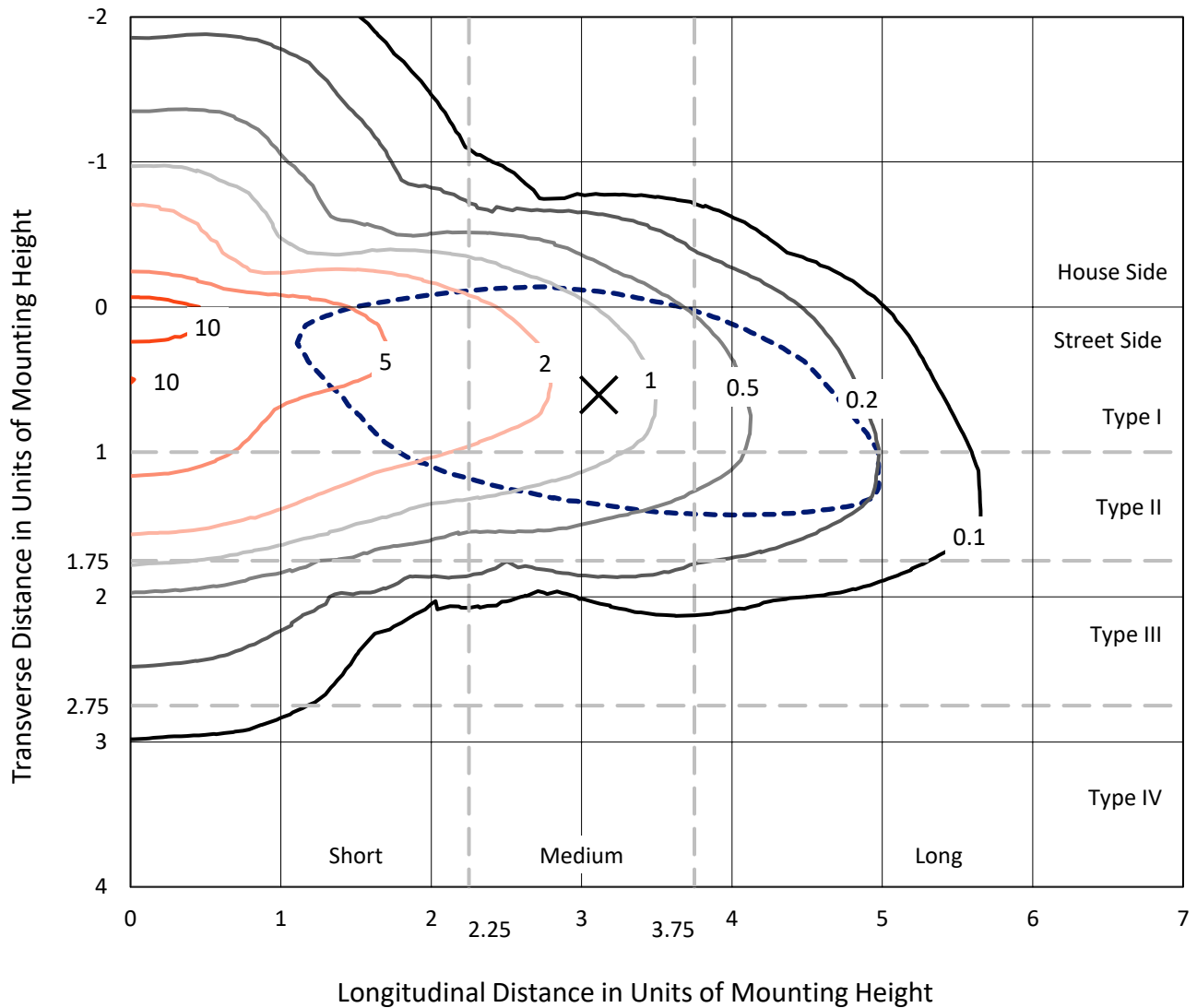
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

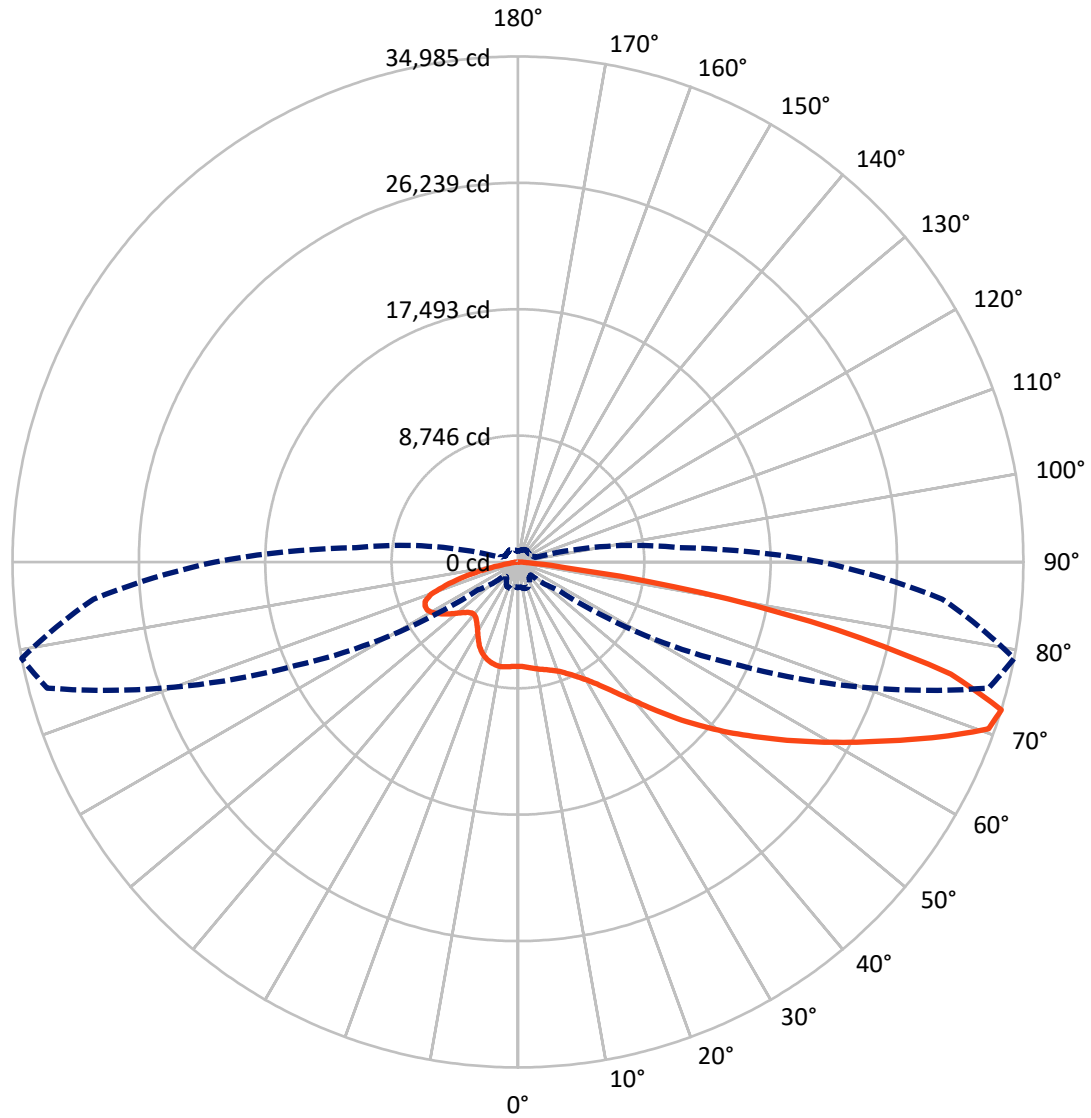
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	7914.7	0.0	7914.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	28052.3	0.0	28052.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	35967.0	0.0	35967.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.4	1.8
10°-20°	1713.5	4.8
20°-30°	2764.8	7.7
30°-40°	4149.6	11.5
40°-50°	5886.5	16.4
50°-60°	7433.8	20.7
60°-70°	7550.1	21.0
70°-80°	5145.7	14.3
80°-90°	667.6	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°	35967.0	100.0
0°-180°	35967.0	100.0



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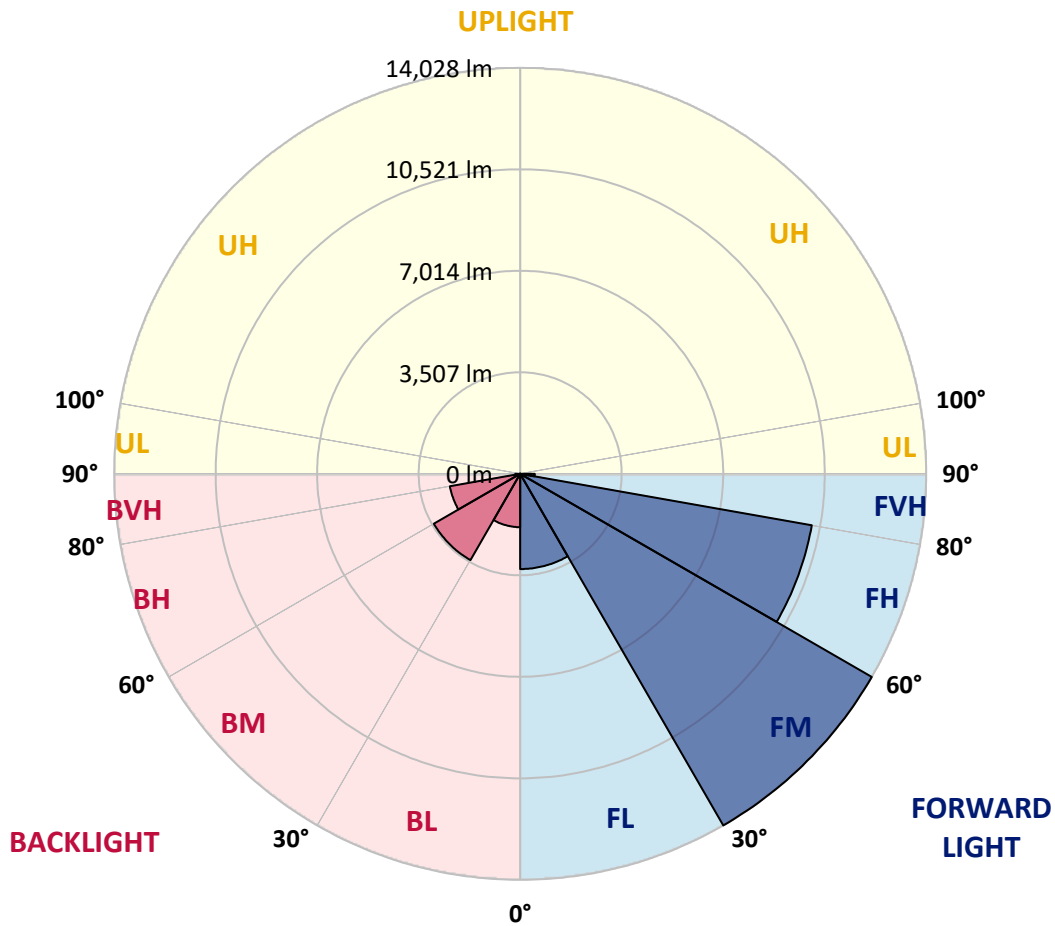
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3290.1	9.1			
FM (30°-60°)	14027.9	39.0			
FH (60°-80°)	10231.4	28.4			G4/12000
FVH (80°-90°)	502.9	1.4			G4/750
BL (0°-30°)	1843.6	5.1	B3/2500		
BM (30°-60°)	3442.1	9.6	B3/5000		
BH (60°-80°)	2464.4	6.9	B3/2500		G3/2500
BVH (80°-90°)	164.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	7220.0	7220.0	7220.0	7220.0	7220.0	7220.0	7220.0	7220.0	7220.0	7220.0
2.5°	7223.8	7189.6	7210.5	7202.9	7212.4	7223.8	7227.6	7233.4	7252.4	7250.5
5°	7208.6	7174.4	7202.9	7193.4	7218.1	7244.8	7267.6	7288.5	7319.0	7332.3
7.5°	7176.3	7153.4	7182.0	7210.5	7256.2	7296.1	7328.5	7376.0	7419.8	7427.4
10°	6987.9	6970.8	7037.4	7111.6	7237.2	7345.6	7416.0	7471.2	7518.7	7526.3
12.5°	6792.0	6771.0	6845.2	6946.1	7149.6	7345.6	7494.0	7566.3	7608.1	7632.9
15°	6759.6	6742.5	6784.4	6871.9	7041.2	7294.2	7547.3	7680.4	7716.6	7745.1
17.5°	6915.6	6883.3	6900.4	6930.9	7029.8	7246.7	7589.1	7809.8	7865.0	7895.4
20°	7277.1	7231.4	7204.8	7143.9	7126.8	7254.3	7585.3	7965.8	8038.1	8076.2
22.5°	7758.4	7728.0	7670.9	7516.8	7349.4	7347.5	7657.6	8165.6	8300.7	8336.8
25°	8340.6	8295.0	8222.7	8013.4	7691.9	7532.0	7779.4	8420.5	8646.9	8656.4
27.5°	9010.3	8941.8	8842.9	8567.0	8133.2	7821.2	7965.8	8713.5	9044.5	9040.7
30°	9716.1	9647.6	9543.0	9208.2	8662.1	8211.2	8224.6	9029.3	9516.4	9495.4
32.5°	10231.7	10180.3	10159.4	9900.7	9270.9	8671.6	8521.4	9379.4	10098.5	10079.5
35°	10627.4	10560.8	10585.6	10454.3	9934.9	9187.2	8884.7	9796.0	10806.3	10804.4
37.5°	11019.3	10960.4	10981.3	10893.8	10549.4	9841.7	9328.0	10305.9	11683.3	11725.2
40°	11377.0	11314.2	11397.9	11316.1	11027.0	10538.0	9832.2	10882.4	12699.3	12779.2
42.5°	11592.0	11542.5	11681.4	11683.3	11441.7	11125.9	10385.8	11517.8	13875.0	14053.9
45°	11666.2	11649.1	11858.4	11902.1	11808.9	11466.4	10884.3	12210.3	15142.1	15461.7
47.5°	11586.3	11554.0	11843.1	12004.9	12079.0	11626.3	11297.1	12959.9	16435.8	16903.8
50°	11183.0	11120.2	11550.2	11890.7	12155.1	11730.9	11713.8	13825.6	17906.4	18418.2
52.5°	10458.1	10410.5	10899.5	11491.2	11987.7	11782.3	12181.8	14771.1	19302.9	19965.0
55°	9531.6	9468.8	10007.2	10779.6	11571.1	11765.1	12649.8	15828.9	20950.5	21622.0
57.5°	8062.8	7937.3	8618.4	9531.6	10891.9	11744.2	13136.8	16881.0	22624.7	23429.4
60°	5920.6	5734.2	6569.4	7651.9	9563.9	11540.6	13739.9	18060.5	24633.7	25358.6
62.5°	3447.4	3338.9	3884.9	4895.2	7208.6	10342.1	14078.6	19432.3	26608.5	27369.5
65°	2676.8	2646.4	2694.0	2772.0	4012.4	7743.2	13034.1	20769.7	29119.8	29652.6
67.5°	2448.5	2425.7	2446.6	2300.1	2035.7	4313.0	10311.6	21108.4	31810.0	32133.4
70°	2176.5	2149.8	2218.3	2092.8	1601.9	1961.5	6662.6	19879.3	33950.3	34557.2
72.5°	1773.1	1742.7	1902.5	1845.4	1348.9	1259.5	3346.5	16959.0	33725.8	34985.3
75°	1362.2	1345.1	1535.3	1582.9	1099.7	991.2	1605.7	12606.0	29679.2	30948.2
77.5°	1057.8	1044.5	1141.5	1314.6	886.6	768.6	987.4	7996.3	22365.9	22588.5
80°	793.3	755.3	844.7	1017.8	690.6	561.2	669.7	4663.1	14137.6	12815.3
82.5°	496.6	477.5	551.7	679.2	487.0	386.2	435.7	2576.0	5665.7	3337.0
85°	283.5	275.9	300.6	388.1	264.4	222.6	249.2	1137.7	1035.0	711.5
87.5°	114.2	110.3	137.0	173.1	97.0	81.8	87.5	274.0	228.3	211.2
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°
7220.0	0°	7220.0	7220.0	7220.0	7220.0	7220.0	7220.0	7220.0	7220.0	7220.0	7220.0
7248.6	2.5°	7241.0	7241.0	7214.3	7172.5	7124.9	7094.5	7045.0	7031.7	6980.3	6965.1
7313.3	5°	7328.5	7313.3	7231.4	7113.5	6951.8	6803.4	6639.8	6537.0	6392.4	6341.1
7440.7	7.5°	7438.8	7397.0	7256.2	6997.4	6658.8	6325.9	5979.6	5717.0	5465.9	5376.5
7545.4	10°	7539.7	7480.7	7241.0	6788.2	6202.2	5625.7	5074.0	4687.8	4394.8	4274.9
7661.4	12.5°	7640.5	7532.0	7140.1	6440.0	5553.4	4771.5	4183.6	3883.0	3702.3	3557.7
7756.5	15°	7735.6	7583.4	6984.1	5973.9	4841.9	4048.5	3614.8	3375.1	3230.5	3135.3
7895.4	17.5°	7846.0	7627.2	6750.1	5382.2	4164.6	3548.2	3194.3	3049.7	3021.2	3009.8
8085.7	20°	8000.1	7667.1	6441.9	4720.1	3666.1	3148.7	2966.0	2952.7	2950.8	2945.1
8314.0	22.5°	8165.6	7714.7	6034.8	4118.9	3241.9	2899.4	2867.1	2840.5	2823.3	2821.4
8589.8	25°	8361.5	7729.9	5524.9	3626.2	2880.4	2781.5	2743.4	2703.5	2692.1	2692.1
8903.8	27.5°	8551.8	7678.5	4931.3	3198.1	2676.8	2673.0	2623.6	2610.2	2608.3	2614.1
9261.4	30°	8742.0	7581.5	4341.5	2802.4	2558.9	2558.9	2541.8	2551.3	2558.9	2577.9
9752.3	32.5°	8998.9	7478.8	3848.8	2509.4	2456.1	2437.1	2454.2	2473.3	2480.9	2505.6
10397.2	35°	9375.6	7406.5	3456.9	2349.6	2349.6	2324.9	2334.4	2330.6	2313.5	2302.0
11177.3	37.5°	9874.0	7402.7	3133.4	2275.4	2260.2	2256.4	2258.3	2233.5	2167.0	2087.1
12120.9	40°	10473.3	7505.4	2884.2	2224.0	2212.6	2235.5	2224.0	2157.4	1974.8	1835.9
13281.4	42.5°	11278.1	7798.4	2724.4	2161.3	2195.5	2224.0	2178.4	1948.2	1824.5	1731.3
14603.7	45°	12225.5	8274.0	2642.6	2094.7	2163.2	2197.4	1976.7	1875.9	1776.9	1664.7
16045.8	47.5°	13298.6	8873.3	2623.6	2031.9	2090.9	2111.8	1891.1	1845.4	1733.2	1611.4
17495.5	50°	14466.7	9583.0	2674.9	1957.7	1986.2	1913.9	1862.6	1820.7	1704.7	1584.8
18981.4	52.5°	15674.8	10364.9	2777.7	1856.9	1881.6	1801.7	1851.1	1815.0	1687.5	1525.8
20516.7	55°	16862.0	11152.5	2876.6	1738.9	1775.0	1700.8	1818.8	1792.2	1609.5	1426.9
22154.8	57.5°	18068.2	11936.4	2973.6	1634.3	1672.3	1603.8	1767.4	1731.3	1522.0	1335.6
23943.1	60°	19321.9	12697.4	3019.3	1533.4	1560.1	1514.4	1689.4	1626.6	1423.1	1242.3
25701.0	62.5°	20495.8	13330.9	2945.1	1432.6	1449.7	1430.7	1586.7	1503.0	1324.1	1137.7
27533.2	65°	21673.4	13707.6	2716.8	1333.7	1337.5	1328.0	1442.1	1369.8	1208.1	1046.4
29137.0	67.5°	22740.7	13918.8	2353.4	1227.1	1217.6	1213.8	1307.0	1225.2	1095.8	955.1
30356.5	70°	22967.1	13382.3	1797.9	1101.6	1101.6	1092.0	1158.6	1074.9	972.2	858.0
29483.2	72.5°	20977.1	11257.2	1276.6	958.9	974.1	955.1	1010.2	939.8	846.6	770.5
25410.0	75°	16915.2	8255.0	928.4	812.4	839.0	806.7	858.0	808.6	728.7	726.8
17510.7	77.5°	11622.4	5104.4	673.5	669.7	688.7	646.9	705.8	679.2	606.9	574.6
7621.5	80°	4959.8	2035.7	490.8	517.5	517.5	479.4	547.9	555.5	492.8	477.5
1470.6	82.5°	987.4	578.4	344.4	355.8	334.8	323.4	388.1	430.0	593.6	660.2
443.3	85°	296.8	213.1	207.4	194.1	171.2	173.1	228.3	431.9	532.7	304.4
146.5	87.5°	81.8	53.3	55.2	43.8	36.1	47.6	78.0	327.2	178.8	76.1
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>
7220.0
6989.8
6379.1
5387.9
4301.6
3605.3
3152.5
3017.4
2964.1
2842.4
2703.5
2629.3
2591.2
2526.5
2328.7
2089.0
1832.1
1727.5
1657.1
1601.9
1571.5
1514.4
1417.4
1331.8
1236.6
1135.8
1035.0
943.6
854.2
747.7
654.5
538.4
477.5
662.1
262.5
64.7
0.0

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