

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: P953971

Luminaire Tested: **GALN-SB7B-840-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953971
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-SB7B-840-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38073 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

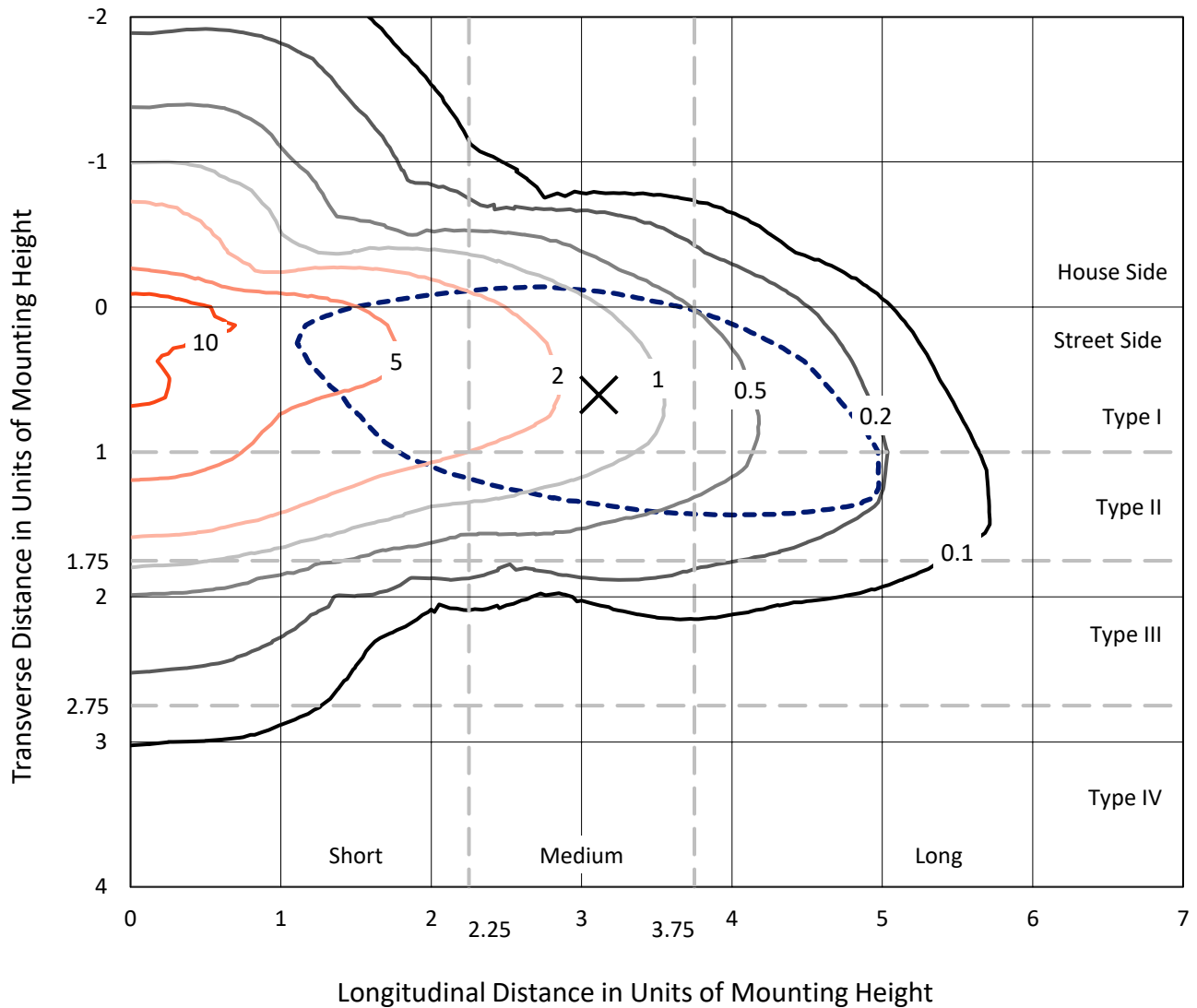
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

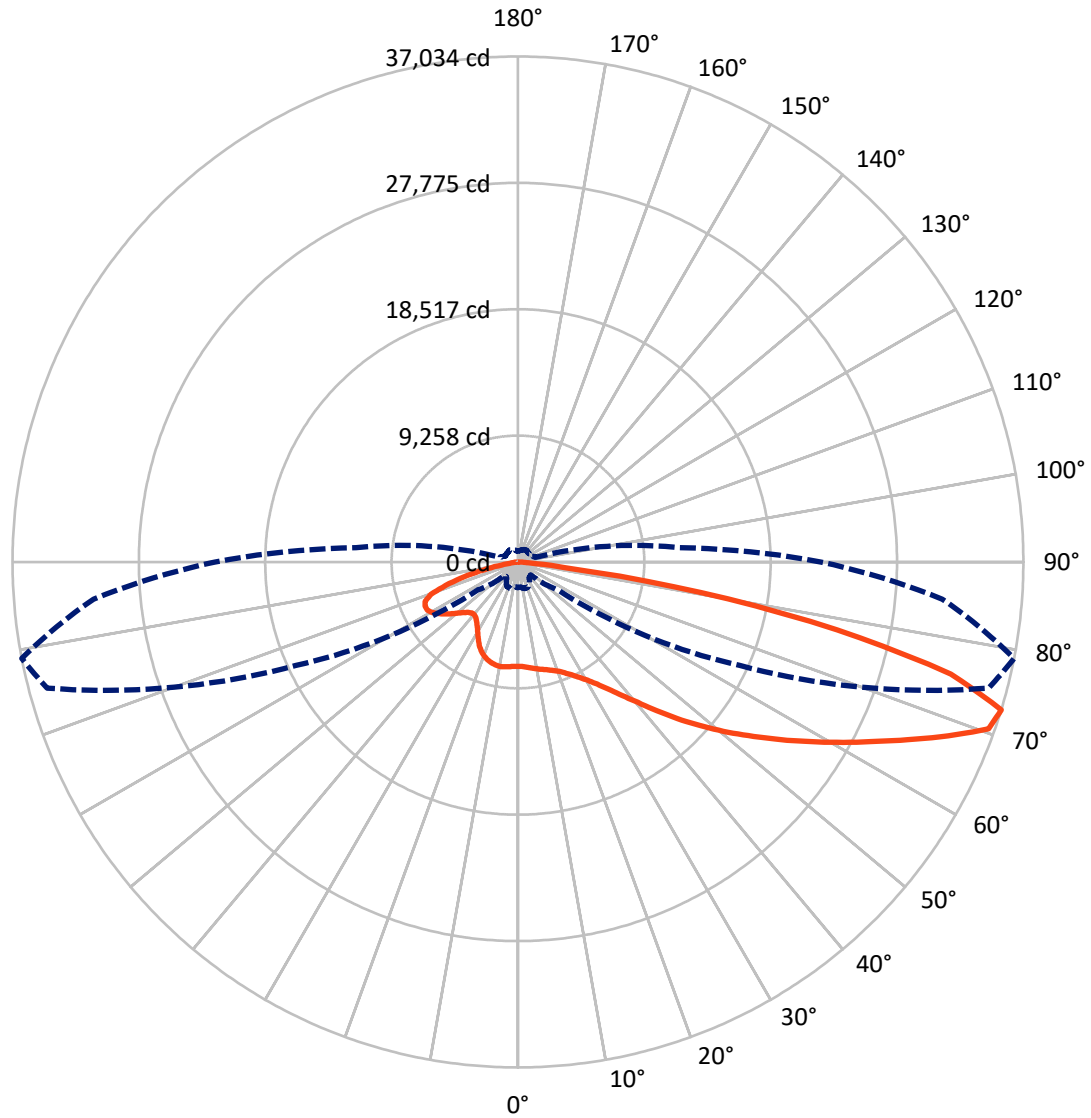
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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	8378.2	0.0	8378.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	29694.8	0.0	29694.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	38073.0	0.0	38073.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	693.7	1.8
10°-20°	1813.8	4.8
20°-30°	2926.7	7.7
30°-40°	4392.6	11.5
40°-50°	6231.2	16.4
50°-60°	7869.1	20.7
60°-70°	7992.2	21.0
70°-80°	5447.0	14.3
80°-90°	706.7	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°	38073.0	100.0
0°-180°	38073.0	100.0



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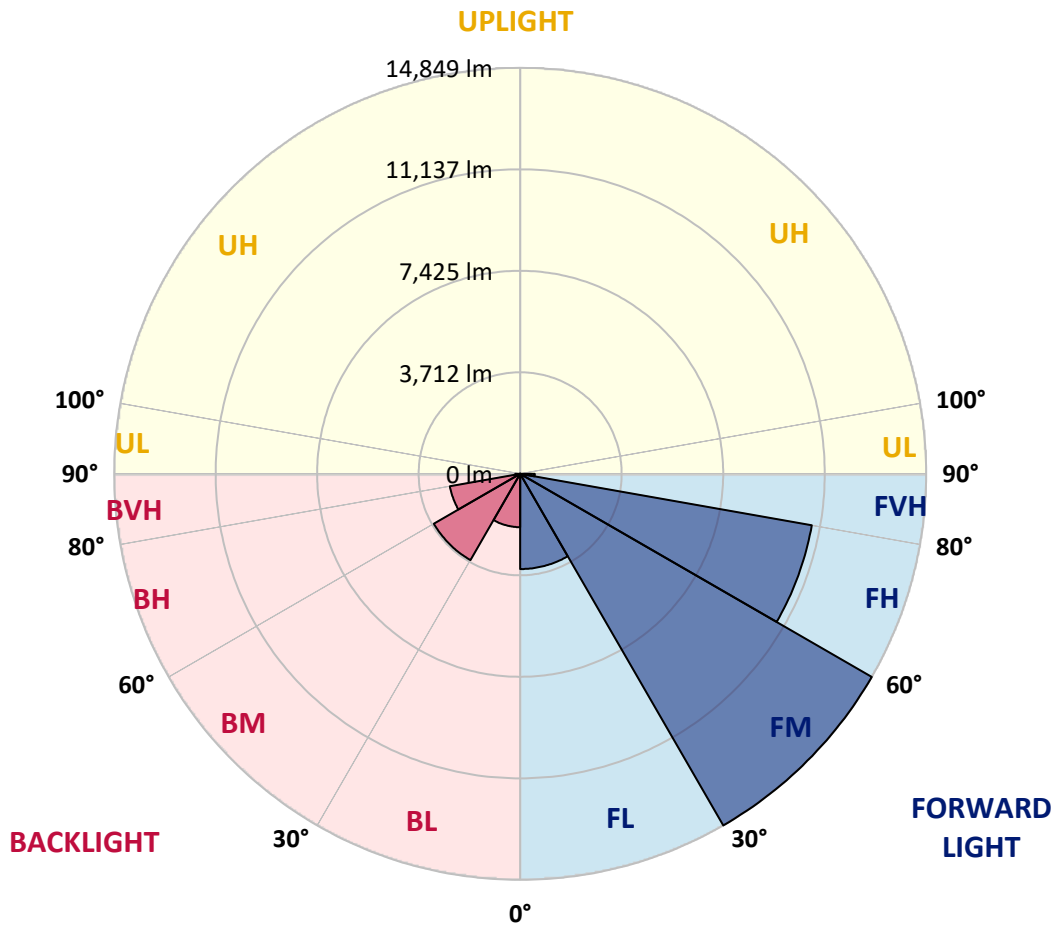
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3482.8	9.1			
FM (30°-60°)	14849.2	39.0			
FH (60°-80°)	10830.5	28.4			G4/12000
FVH (80°-90°)	532.4	1.4			G4/750
BL (0°-30°)	1951.5	5.1	B3/2500		
BM (30°-60°)	3643.6	9.6	B3/5000		
BH (60°-80°)	2608.7	6.9	B4/5000		G4/5000
BVH (80°-90°)	174.3	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	7642.8	7642.8	7642.8	7642.8	7642.8	7642.8	7642.8	7642.8	7642.8	7642.8
2.5°	7646.8	7610.6	7632.7	7624.7	7634.7	7646.8	7650.8	7656.9	7677.0	7675.0
5°	7630.7	7594.5	7624.7	7614.6	7640.8	7669.0	7693.1	7715.3	7747.5	7761.6
7.5°	7596.5	7572.3	7602.5	7632.7	7681.1	7723.3	7757.6	7807.9	7854.3	7862.3
10°	7397.1	7379.0	7449.5	7528.0	7660.9	7775.7	7850.2	7908.6	7959.0	7967.0
12.5°	7189.7	7167.5	7246.1	7352.8	7568.3	7775.7	7932.8	8009.3	8053.6	8079.8
15°	7155.4	7137.3	7181.6	7274.2	7453.5	7721.3	7989.2	8130.2	8168.4	8198.6
17.5°	7320.6	7286.3	7304.5	7336.7	7441.4	7671.0	8033.5	8267.1	8325.5	8357.7
20°	7703.2	7654.9	7626.7	7562.2	7544.1	7679.0	8029.5	8432.2	8508.8	8549.1
22.5°	8212.7	8180.5	8120.1	7957.0	7779.7	7777.7	8106.0	8643.7	8786.7	8825.0
25°	8829.0	8780.7	8704.1	8482.6	8142.2	7973.1	8234.9	8913.6	9153.2	9163.3
27.5°	9537.9	9465.4	9360.7	9068.6	8609.5	8279.2	8432.2	9223.7	9574.1	9570.1
30°	10285.0	10212.5	10101.8	9747.3	9169.3	8692.0	8706.1	9558.0	10073.6	10051.4
32.5°	10830.8	10776.4	10754.3	10480.4	9813.8	9179.4	9020.3	9928.6	10689.8	10669.7
35°	11249.7	11179.2	11205.4	11066.4	10516.6	9725.2	9405.0	10369.6	11439.0	11437.0
37.5°	11664.6	11602.1	11624.3	11531.7	11167.1	10418.0	9874.2	10909.4	12367.4	12411.7
40°	12043.2	11976.7	12065.3	11978.7	11672.6	11155.1	10407.9	11519.6	13442.9	13527.4
42.5°	12270.8	12218.4	12365.4	12367.4	12111.7	11777.4	10993.9	12192.2	14687.5	14876.8
45°	12349.3	12331.2	12552.7	12599.0	12500.3	12137.8	11521.6	12925.3	16028.7	16367.1
47.5°	12264.7	12230.5	12536.6	12707.8	12786.3	12307.0	11958.6	13718.8	17398.2	17893.6
50°	11837.8	11771.3	12226.5	12586.9	12866.9	12417.8	12399.7	14635.1	18954.9	19496.7
52.5°	11070.5	11020.1	11537.7	12164.0	12689.7	12472.2	12895.1	15636.0	20433.1	21134.0
55°	10089.7	10023.2	10593.2	11410.8	12248.6	12454.0	13390.5	16755.7	22177.2	22888.1
57.5°	8535.0	8402.0	9123.0	10089.7	11529.6	12431.9	13906.1	17869.4	23949.4	24801.3
60°	6267.3	6069.9	6954.0	8100.0	10123.9	12216.4	14544.5	19118.1	26076.1	26843.4
62.5°	3649.2	3534.4	4112.4	5181.8	7630.7	10947.6	14902.9	20570.1	28166.6	28972.1
65°	2833.6	2801.4	2851.7	2934.3	4247.3	8196.6	13797.3	21985.9	30824.9	31388.8
67.5°	2591.9	2567.7	2589.9	2434.8	2154.9	4565.5	10915.4	22344.3	33672.6	34015.0
70°	2303.9	2275.7	2348.2	2215.3	1695.7	2076.3	7052.7	21043.4	35938.2	36580.7
72.5°	1877.0	1844.7	2013.9	1953.5	1427.9	1333.2	3542.5	17952.0	35700.6	37033.8
75°	1442.0	1423.8	1625.2	1675.6	1164.0	1049.2	1699.7	13344.2	31417.0	32760.3
77.5°	1119.7	1105.6	1208.3	1391.6	938.5	813.6	1045.2	8464.5	23675.5	23911.2
80°	839.8	799.5	894.2	1077.4	731.0	594.1	708.9	4936.1	14965.4	13565.7
82.5°	525.6	505.5	584.0	719.0	515.6	408.8	461.2	2726.8	5997.4	3532.4
85°	300.1	292.0	318.2	410.8	279.9	235.6	263.8	1204.3	1095.6	753.2
87.5°	120.8	116.8	145.0	183.3	102.7	86.6	92.6	290.0	241.7	223.5
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°
7642.8	0°	7642.8	7642.8	7642.8	7642.8	7642.8	7642.8	7642.8	7642.8	7642.8	7642.8
7673.0	2.5°	7664.9	7664.9	7636.8	7592.4	7542.1	7509.9	7457.5	7443.4	7389.0	7372.9
7741.5	5°	7757.6	7741.5	7654.9	7530.0	7358.8	7201.7	7028.5	6919.8	6766.7	6712.4
7876.4	7.5°	7874.4	7830.1	7681.1	7407.2	7048.7	6696.3	6329.7	6051.8	5786.0	5691.3
7987.2	10°	7981.1	7918.7	7664.9	7185.6	6565.4	5955.1	5371.1	4962.3	4652.1	4525.3
8110.0	12.5°	8087.9	7973.1	7558.2	6817.1	5878.6	5050.9	4428.6	4110.4	3919.1	3766.0
8210.7	15°	8188.6	8027.4	7393.1	6323.7	5125.4	4285.6	3826.4	3572.7	3419.6	3318.9
8357.7	17.5°	8305.4	8073.8	7145.4	5697.4	4408.5	3755.9	3381.4	3228.3	3198.1	3186.0
8559.1	20°	8468.5	8116.1	6819.1	4996.5	3880.8	3333.0	3139.7	3125.6	3123.6	3117.5
8800.8	22.5°	8643.7	8166.4	6388.1	4360.1	3431.7	3069.2	3035.0	3006.8	2988.6	2986.6
9092.8	25°	8851.1	8182.5	5848.4	3838.5	3049.1	2944.3	2904.1	2861.8	2849.7	2849.7
9425.1	27.5°	9052.5	8128.1	5220.1	3385.4	2833.6	2829.5	2777.2	2763.1	2761.1	2767.1
9803.7	30°	9253.9	8025.4	4595.7	2966.5	2708.7	2708.7	2690.6	2700.7	2708.7	2728.8
10323.3	32.5°	9525.8	7916.7	4074.1	2656.3	2600.0	2579.8	2597.9	2618.1	2626.1	2652.3
11006.0	35°	9924.6	7840.2	3659.3	2487.2	2487.2	2461.0	2471.1	2467.0	2448.9	2436.8
11831.7	37.5°	10452.2	7836.1	3316.9	2408.6	2392.5	2388.5	2390.5	2364.3	2293.8	2209.3
12830.6	40°	11086.6	7944.9	3053.1	2354.3	2342.2	2366.3	2354.3	2283.8	2090.4	1943.4
14059.1	42.5°	11938.5	8255.0	2883.9	2287.8	2324.1	2354.3	2305.9	2062.2	1931.3	1832.7
15458.8	45°	12941.4	8758.5	2797.3	2217.3	2289.8	2326.1	2092.5	1985.7	1881.0	1762.2
16985.3	47.5°	14077.2	9392.9	2777.2	2150.9	2213.3	2235.4	2001.8	1953.5	1834.7	1705.8
18519.9	50°	15313.8	10144.1	2831.6	2072.3	2102.5	2026.0	1971.6	1927.3	1804.5	1677.6
20092.8	52.5°	16592.6	10971.8	2940.3	1965.6	1991.8	1907.2	1959.5	1921.3	1786.3	1615.2
21718.0	55°	17849.3	11805.5	3045.0	1840.7	1879.0	1800.4	1925.3	1897.1	1703.8	1510.4
23452.0	57.5°	19126.1	12635.3	3147.7	1729.9	1770.2	1697.7	1870.9	1832.7	1611.1	1413.8
25345.1	60°	20453.3	13440.8	3196.1	1623.2	1651.4	1603.1	1788.4	1721.9	1506.4	1315.1
27205.9	62.5°	21695.9	14111.5	3117.5	1516.5	1534.6	1514.5	1679.6	1591.0	1401.7	1204.3
29145.3	65°	22942.5	14510.2	2875.9	1411.8	1415.8	1405.7	1526.5	1450.0	1278.8	1107.7
30843.0	67.5°	24072.3	14733.8	2491.2	1299.0	1288.9	1284.9	1383.6	1297.0	1160.0	1011.0
32134.0	70°	24311.9	14165.9	1903.1	1166.1	1166.1	1156.0	1226.5	1137.9	1029.1	908.3
31209.6	72.5°	22205.4	11916.3	1351.3	1015.0	1031.1	1011.0	1069.4	994.9	896.2	815.6
26897.8	75°	17905.7	8738.4	982.8	859.9	888.1	853.9	908.3	855.9	771.3	769.3
18536.0	77.5°	12303.0	5403.3	712.9	708.9	729.0	684.7	747.2	719.0	642.4	608.2
8067.7	80°	5250.3	2154.9	519.6	547.8	547.8	507.5	580.0	588.1	521.6	505.5
1556.8	82.5°	1045.2	612.2	364.5	376.6	354.4	342.4	410.8	455.1	628.3	698.8
469.2	85°	314.2	225.6	219.5	205.4	181.3	183.3	241.7	457.2	563.9	322.2
155.1	87.5°	86.6	56.4	58.4	46.3	38.3	50.3	82.6	346.4	189.3	80.6
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>
7642.8
7399.1
6752.6
5703.4
4553.5
3816.4
3337.1
3194.1
3137.7
3008.8
2861.8
2783.2
2742.9
2674.5
2465.0
2211.3
1939.4
1828.6
1754.1
1695.7
1663.5
1603.1
1500.4
1409.7
1309.0
1202.3
1095.6
998.9
904.2
791.5
692.8
569.9
505.5
700.8
277.9
68.5
0.0

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