

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: P956932

Luminaire Tested: **GALN-SB9B-940-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956932  
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-SB9B-940-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

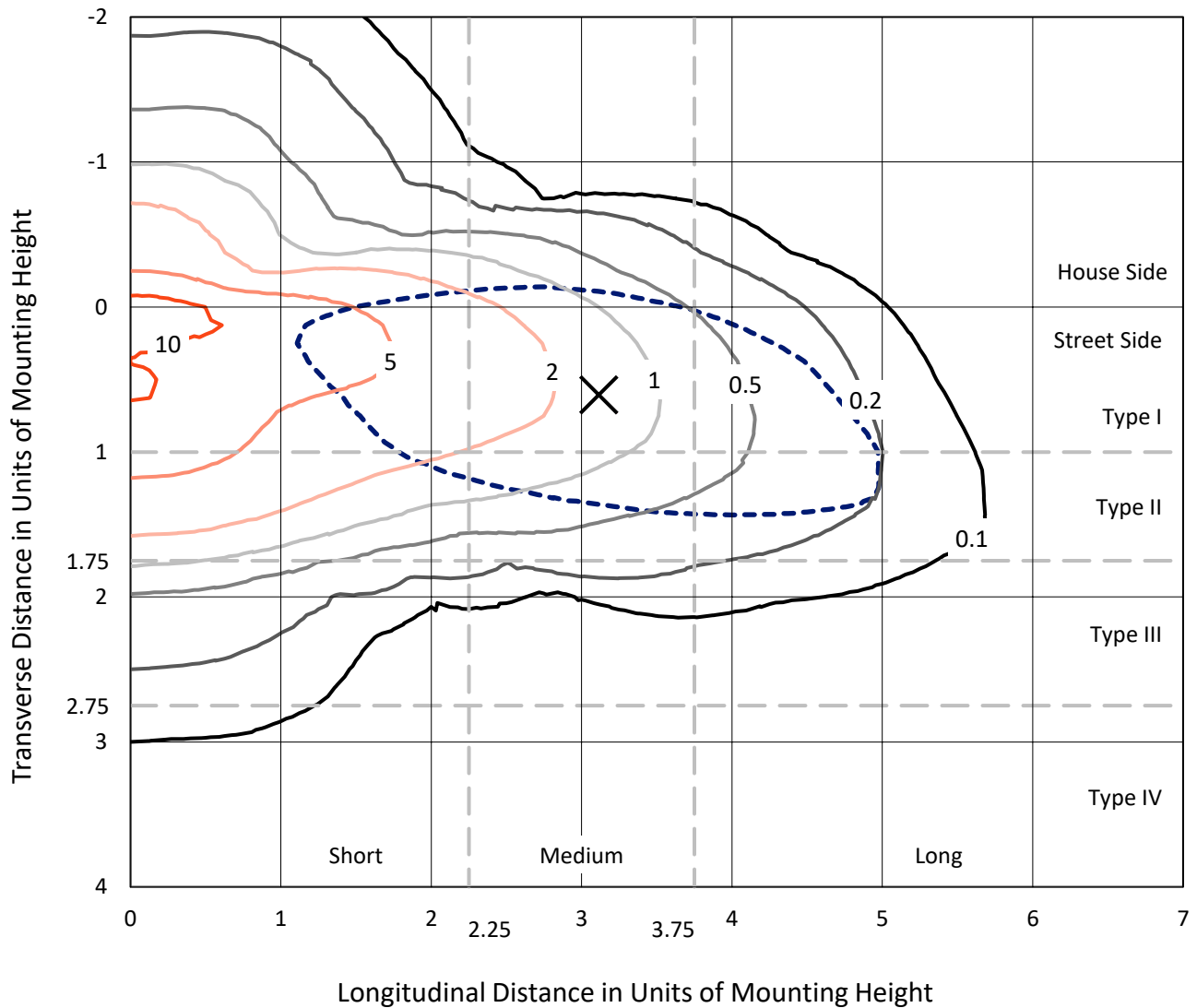
Lumens per Lamp: N/A  
Luminaire Lumens: 36941 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

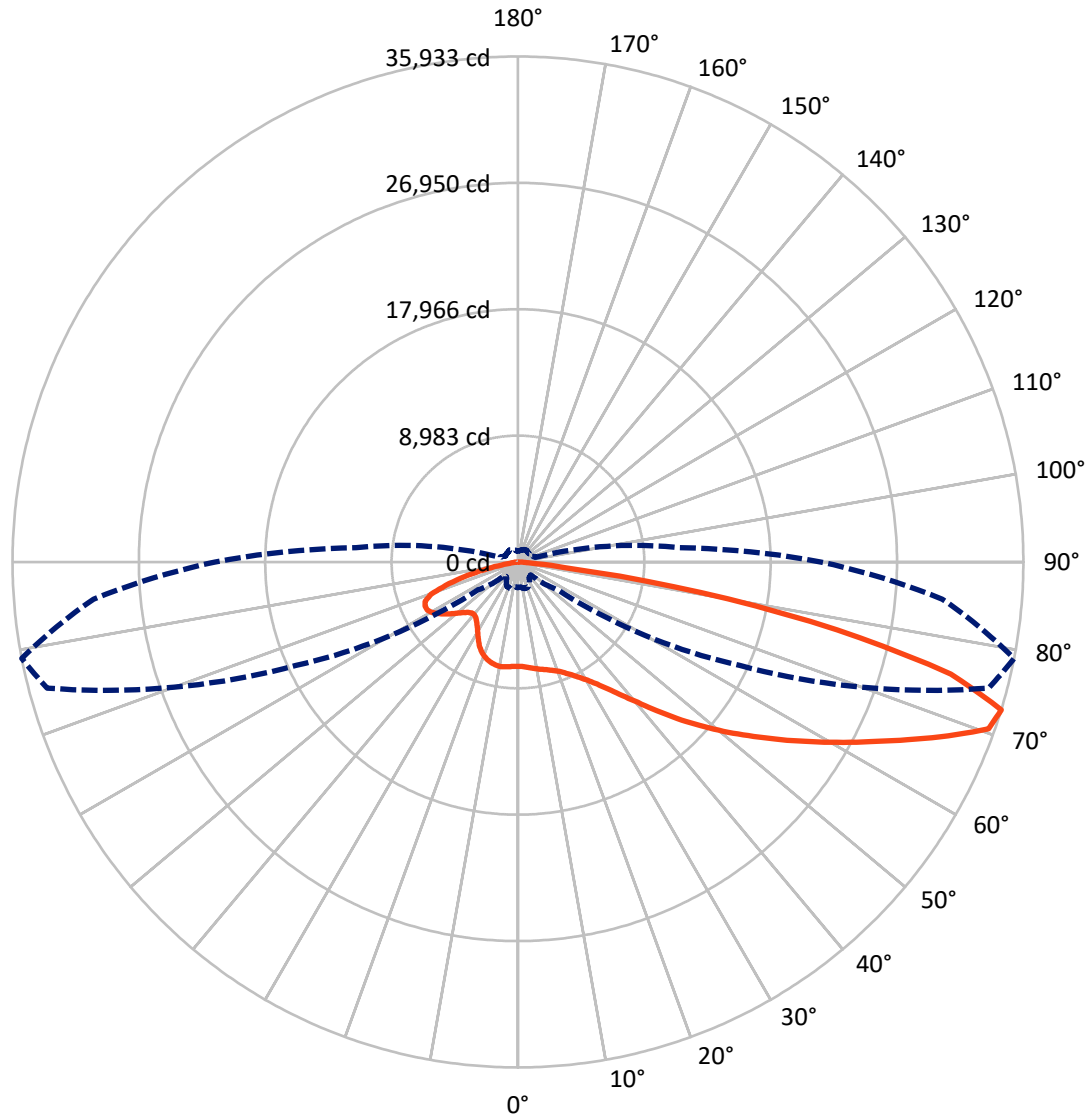
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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
<b>House Side</b>	Lumens	8129.1	0.0	8129.1
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	28811.9	0.0	28811.9
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	36941.0	0.0	36941.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	673.1	1.8
10°-20°	1759.9	4.8
20°-30°	2839.7	7.7
30°-40°	4262.0	11.5
40°-50°	6045.9	16.4
50°-60°	7635.1	20.7
60°-70°	7754.5	21.0
70°-80°	5285.1	14.3
80°-90°	685.7	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°	36941.0	100.0
0°-180°	36941.0	100.0



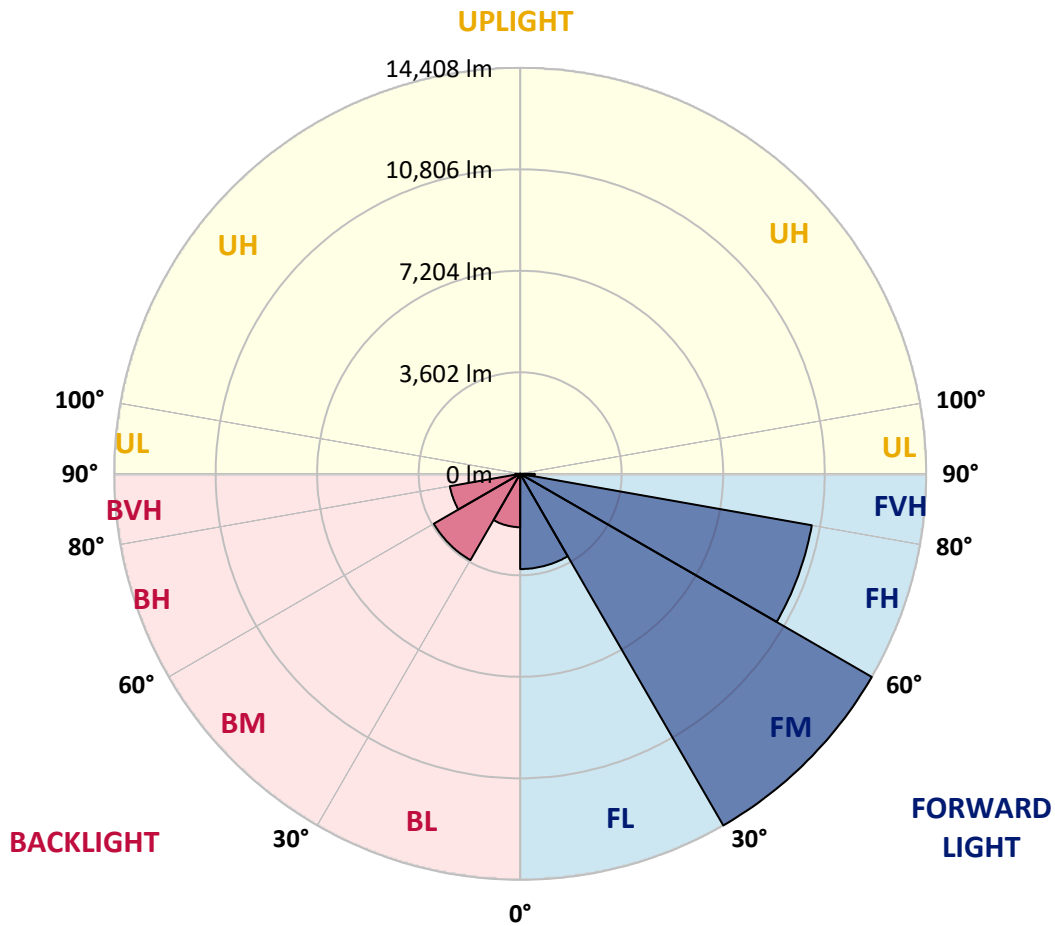
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3379.2	9.1			
FM (30°-60°)	14407.7	39.0			
FH (60°-80°)	10508.5	28.4			G4/12000
FVH (80°-90°)	516.5	1.4			G4/750
BL (0°-30°)	1893.5	5.1	B3/2500		
BM (30°-60°)	3535.3	9.6	B3/5000		
BH (60°-80°)	2531.1	6.9	B4/5000		G4/5000
BVH (80°-90°)	169.2	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°	7415.6	7415.6	7415.6	7415.6	7415.6	7415.6	7415.6	7415.6	7415.6	7415.6
2.5°	7419.5	7384.3	7405.8	7398.0	7407.7	7419.5	7423.4	7429.2	7448.8	7446.8
5°	7403.8	7368.7	7398.0	7388.2	7413.6	7441.0	7464.4	7485.9	7517.2	7530.8
7.5°	7370.6	7347.2	7376.5	7405.8	7452.7	7493.7	7526.9	7575.8	7620.7	7628.5
10°	7177.2	7159.6	7228.0	7304.2	7433.1	7544.5	7616.8	7673.5	7722.3	7730.2
12.5°	6975.9	6954.4	7030.6	7134.2	7343.3	7544.5	7696.9	7771.2	7814.2	7839.6
15°	6942.7	6925.1	6968.1	7058.0	7231.9	7491.8	7751.6	7888.4	7925.6	7954.9
17.5°	7102.9	7069.7	7087.3	7118.5	7220.2	7442.9	7794.6	8021.3	8078.0	8109.2
20°	7474.2	7427.3	7399.9	7337.4	7319.8	7450.7	7790.7	8181.5	8255.8	8294.9
22.5°	7968.5	7937.3	7878.7	7720.4	7548.4	7546.5	7865.0	8386.7	8525.4	8562.6
25°	8566.5	8519.6	8445.3	8230.4	7900.2	7736.0	7990.0	8648.5	8881.1	8890.8
27.5°	9254.3	9184.0	9082.3	8799.0	8353.5	8033.0	8181.5	8949.5	9289.5	9285.6
30°	9979.2	9908.9	9801.4	9457.5	8896.7	8433.6	8447.3	9273.8	9774.1	9752.6
32.5°	10508.8	10456.0	10434.5	10168.8	9522.0	8906.5	8752.1	9633.4	10372.0	10352.5
35°	10915.2	10846.8	10872.2	10737.4	10204.0	9436.0	9125.3	10061.3	11098.9	11097.0
37.5°	11317.8	11257.2	11278.7	11188.8	10835.1	10108.2	9580.6	10585.0	11999.7	12042.7
40°	11685.1	11620.6	11706.6	11622.6	11325.6	10823.4	10098.4	11177.1	13043.2	13125.2
42.5°	11905.9	11855.1	11997.8	11999.7	11751.6	11427.2	10667.1	11829.7	14250.8	14434.4
45°	11982.1	11964.5	12179.5	12224.4	12128.7	11777.0	11179.0	12541.0	15552.1	15880.4
47.5°	11900.1	11866.8	12163.9	12329.9	12406.2	11941.1	11603.0	13310.9	16880.9	17361.6
50°	11485.8	11421.3	11862.9	12212.7	12484.3	12048.6	12031.0	14200.0	18391.4	18917.0
52.5°	10741.3	10692.5	11194.7	11802.4	12312.4	12101.3	12511.7	15171.1	19825.6	20505.6
55°	9789.7	9725.2	10278.2	11071.5	11884.4	12083.7	12992.4	16257.6	21517.8	22207.6
57.5°	8281.2	8152.2	8851.8	9789.7	11186.8	12062.2	13492.6	17338.1	23237.4	24063.9
60°	6081.0	5889.5	6747.3	7859.1	9822.9	11853.2	14112.0	18549.6	25300.8	26045.3
62.5°	3540.7	3429.3	3990.1	5027.7	7403.8	10622.1	14459.8	19958.5	27329.1	28110.7
65°	2749.3	2718.1	2766.9	2847.0	4121.1	7952.9	13387.1	21332.2	29908.4	30455.6
67.5°	2514.8	2491.4	2512.9	2362.4	2090.8	4429.8	10590.9	21680.0	32671.4	33003.6
70°	2235.4	2208.1	2278.4	2149.4	1645.3	2014.6	6843.0	20417.7	34869.7	35493.1
72.5°	1821.2	1789.9	1954.0	1895.4	1385.4	1293.6	3437.1	17418.2	34639.1	35932.7
75°	1399.1	1381.5	1576.9	1625.8	1129.4	1018.1	1649.2	12947.4	30482.9	31786.3
77.5°	1086.4	1072.8	1172.4	1350.2	910.6	789.4	1014.1	8212.8	22971.6	23200.2
80°	814.8	775.8	867.6	1045.4	709.3	576.4	687.8	4789.3	14520.4	13162.4
82.5°	510.0	490.5	566.7	697.6	500.2	396.7	447.5	2645.8	5819.1	3427.4
85°	291.2	283.3	308.7	398.6	271.6	228.6	256.0	1168.5	1063.0	730.8
87.5°	117.2	113.3	140.7	177.8	99.7	84.0	89.9	281.4	234.5	216.9
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°
7415.6	0°	7415.6	7415.6	7415.6	7415.6	7415.6	7415.6	7415.6	7415.6	7415.6	7415.6
7444.9	2.5°	7437.0	7437.0	7409.7	7366.7	7317.9	7286.6	7235.8	7222.1	7169.3	7153.7
7511.3	5°	7526.9	7511.3	7427.3	7306.1	7140.0	6987.6	6819.6	6714.1	6565.6	6512.8
7642.2	7.5°	7640.3	7597.3	7452.7	7186.9	6839.1	6497.2	6141.5	5871.9	5613.9	5522.1
7749.7	10°	7743.8	7683.3	7437.0	6972.0	6370.1	5778.1	5211.4	4814.7	4513.8	4390.7
7868.9	12.5°	7847.4	7736.0	7333.5	6614.4	5703.8	4900.7	4296.9	3988.2	3802.5	3654.0
7966.6	15°	7945.1	7788.8	7173.3	6135.7	4973.0	4158.2	3712.7	3466.5	3317.9	3220.2
8109.2	17.5°	8058.4	7833.7	6932.9	5528.0	4277.4	3644.3	3280.8	3132.3	3103.0	3091.3
8304.6	20°	8216.7	7874.8	6616.4	4848.0	3765.4	3233.9	3046.3	3032.7	3030.7	3024.8
8539.1	22.5°	8386.7	7923.6	6198.2	4230.5	3329.7	2977.9	2944.7	2917.4	2899.8	2897.8
8822.5	25°	8588.0	7939.2	5674.5	3724.4	2958.4	2856.8	2817.7	2776.7	2765.0	2765.0
9144.9	27.5°	8783.4	7886.5	5064.9	3284.7	2749.3	2745.4	2694.6	2680.9	2679.0	2684.8
9512.2	30°	8978.8	7786.8	4459.1	2878.3	2628.2	2628.2	2610.6	2620.4	2628.2	2647.7
10016.4	32.5°	9242.6	7681.3	3953.0	2577.4	2522.7	2503.1	2520.7	2540.2	2548.1	2573.5
10678.8	35°	9629.5	7607.0	3550.5	2413.2	2413.2	2387.8	2397.6	2393.7	2376.1	2364.4
11479.9	37.5°	10141.4	7603.1	3218.3	2337.0	2321.4	2317.5	2319.4	2294.0	2225.6	2143.6
12449.1	40°	10757.0	7708.7	2962.3	2284.3	2272.5	2296.0	2284.3	2215.9	2028.3	1885.6
13641.1	42.5°	11583.5	8009.6	2798.2	2219.8	2255.0	2284.3	2237.4	2000.9	1873.9	1778.2
14999.2	45°	12556.6	8498.1	2714.2	2151.4	2221.7	2256.9	2030.2	1926.7	1825.1	1709.8
16480.3	47.5°	13658.7	9113.6	2694.6	2086.9	2147.5	2169.0	1942.3	1895.4	1780.1	1655.1
17969.3	50°	14858.5	9842.5	2747.4	2010.7	2040.0	1965.8	1913.0	1870.0	1750.8	1627.7
19495.4	52.5°	16099.3	10645.6	2852.9	1907.1	1932.5	1850.5	1901.3	1864.1	1733.2	1567.1
21072.3	55°	17318.6	11454.5	2954.5	1786.0	1823.1	1746.9	1868.1	1840.7	1653.1	1465.5
22754.7	57.5°	18557.4	12259.6	3054.2	1678.5	1717.6	1647.2	1815.3	1778.2	1563.2	1371.7
24591.5	60°	19845.2	13041.2	3101.1	1575.0	1602.3	1555.4	1735.2	1670.7	1461.6	1276.0
26397.0	62.5°	21050.8	13691.9	3024.8	1471.4	1489.0	1469.4	1629.7	1543.7	1360.0	1168.5
28278.8	65°	22260.3	14078.8	2790.4	1369.8	1373.7	1363.9	1481.2	1406.9	1240.8	1074.7
29926.0	67.5°	23356.6	14295.7	2417.1	1260.4	1250.6	1246.7	1342.4	1258.4	1125.5	980.9
31178.5	70°	23589.1	13744.7	1846.6	1131.4	1131.4	1121.6	1190.0	1104.0	998.5	881.3
30281.6	72.5°	21545.2	11562.0	1311.2	984.8	1000.5	980.9	1037.6	965.3	869.5	791.4
26098.1	75°	17373.3	8478.5	953.6	834.4	861.7	828.5	881.3	830.5	748.4	746.4
17984.9	77.5°	11937.2	5242.7	691.7	687.8	707.4	664.4	724.9	697.6	623.3	590.1
7827.9	80°	5094.2	2090.8	504.1	531.5	531.5	492.4	562.8	570.6	506.1	490.5
1510.5	82.5°	1014.1	594.0	353.7	365.4	343.9	332.2	398.6	441.6	609.7	678.0
455.3	85°	304.8	218.9	213.0	199.3	175.9	177.8	234.5	443.6	547.1	312.6
150.5	87.5°	84.0	54.7	56.7	44.9	37.1	48.9	80.1	336.1	183.7	78.2
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>
7415.6
7179.1
6551.9
5533.8
4418.1
3702.9
3237.8
3099.1
3044.4
2919.3
2776.7
2700.5
2661.4
2595.0
2391.7
2145.5
1881.7
1774.3
1702.0
1645.3
1614.0
1555.4
1455.8
1367.8
1270.1
1166.6
1063.0
969.2
877.4
767.9
672.2
553.0
490.5
680.0
269.7
66.4
0.0

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