

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: P950338

Luminaire Tested: **GALN-SB4D-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950338
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-SB4D-827-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35249 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

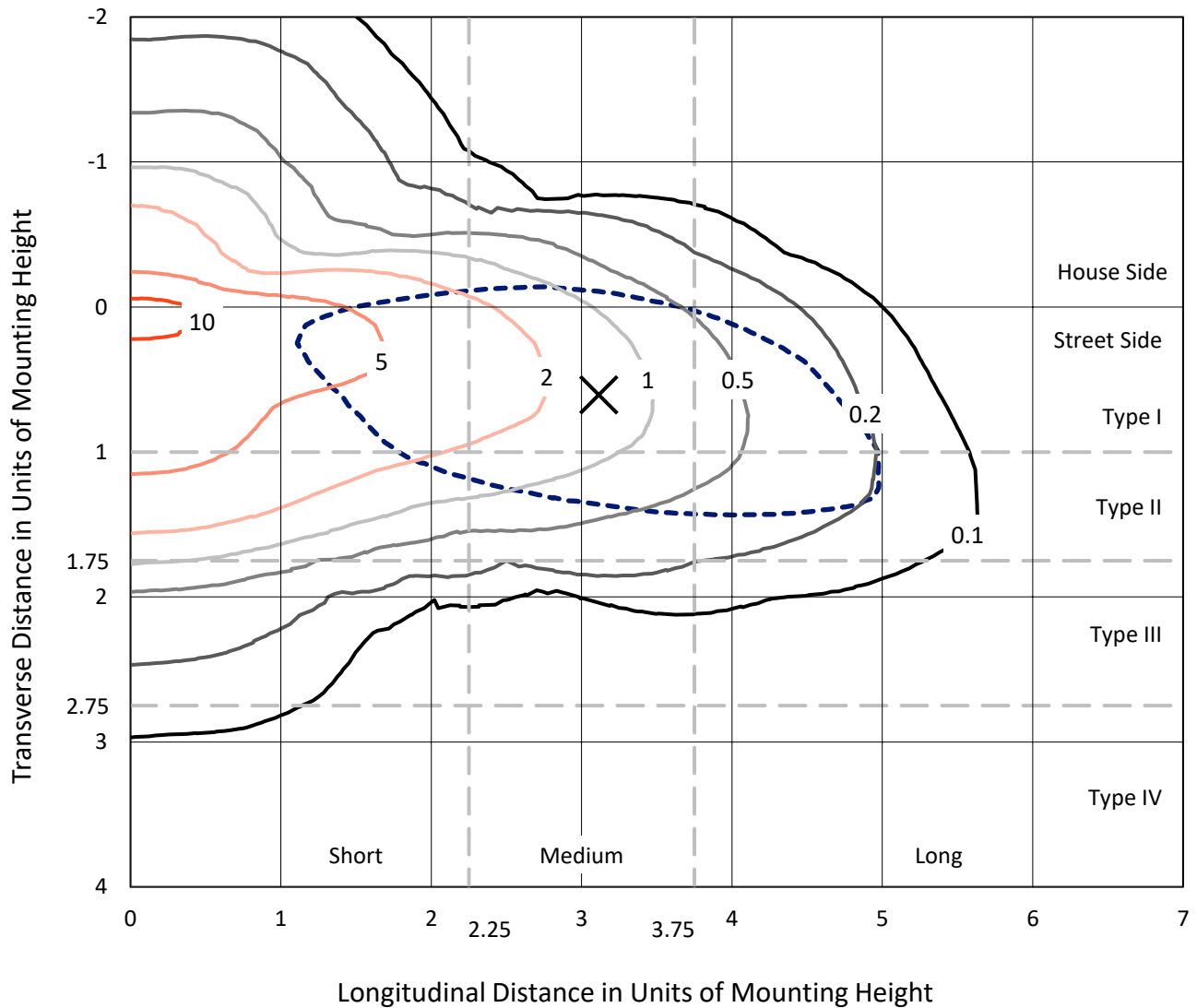
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

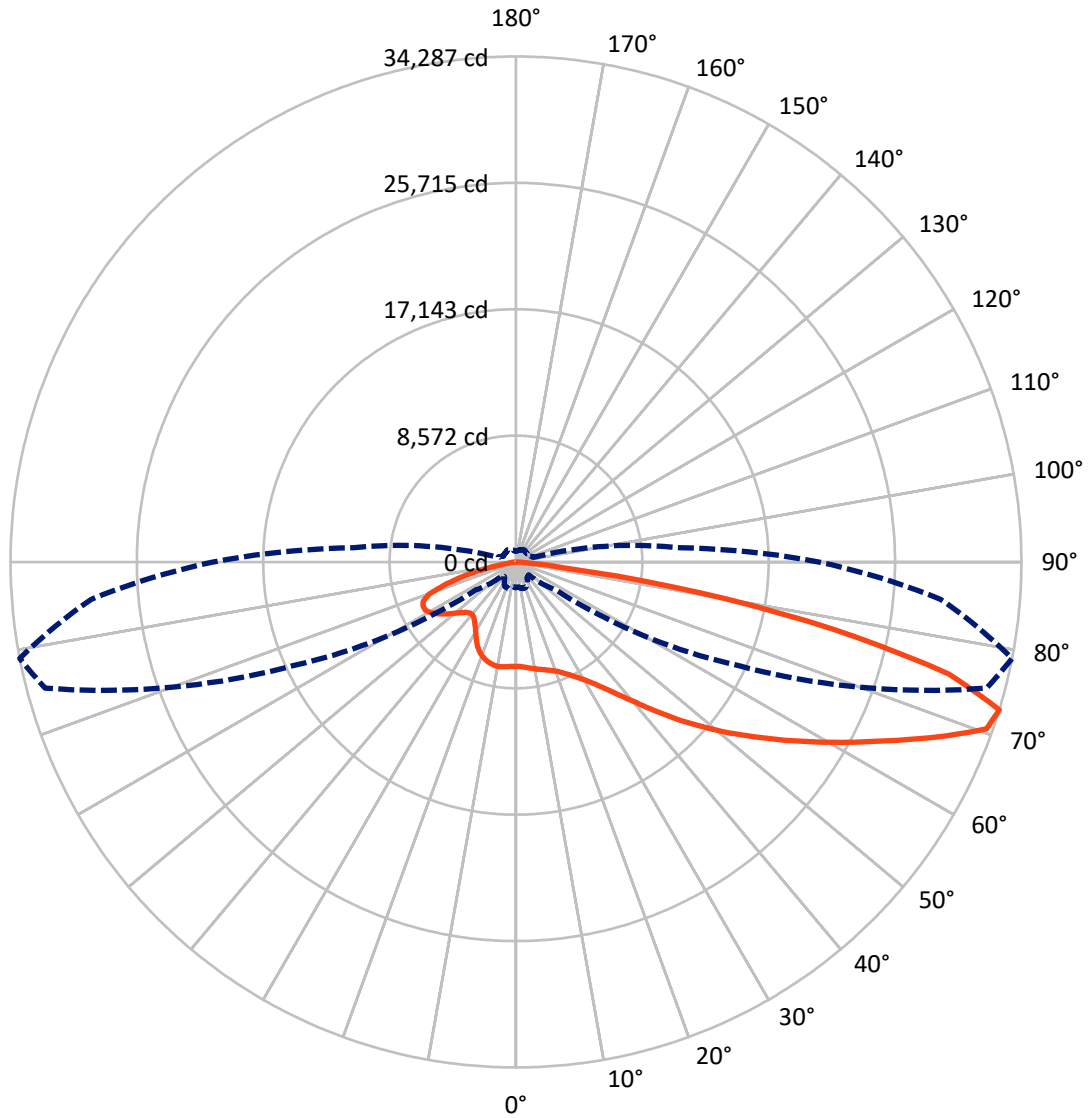
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	7756.7	0.0	7756.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	27492.3	0.0	27492.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	35249.0	0.0	35249.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.3	1.8
10°-20°	1679.3	4.8
20°-30°	2709.6	7.7
30°-40°	4066.8	11.5
40°-50°	5769.0	16.4
50°-60°	7285.4	20.7
60°-70°	7399.4	21.0
70°-80°	5043.0	14.3
80°-90°	654.3	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°	35249.0	100.0
0°-180°	35249.0	100.0



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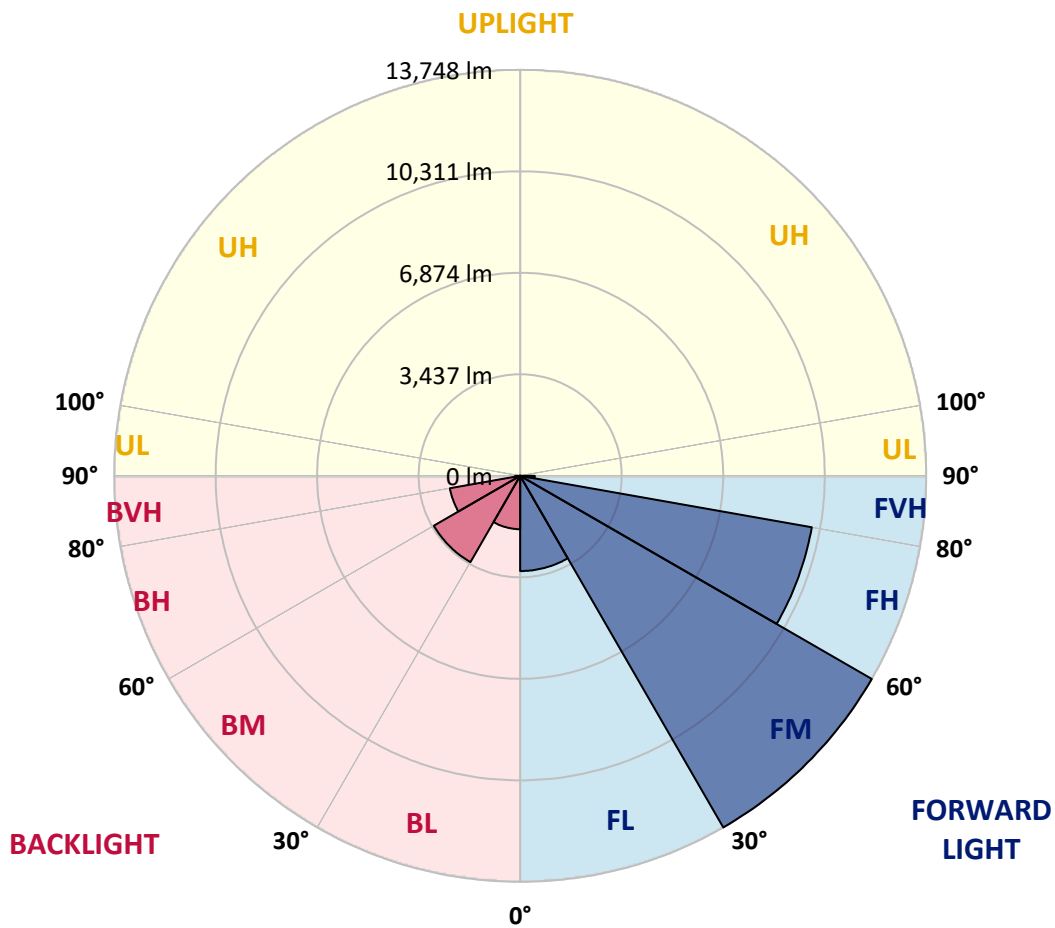
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3224.4	9.1			
FM (30°-60°)	13747.8	39.0			
FH (60°-80°)	10027.1	28.4			G4/12000
FVH (80°-90°)	492.9	1.4			G3/500
BL (0°-30°)	1806.8	5.1	B3/2500		
BM (30°-60°)	3373.4	9.6	B3/5000		
BH (60°-80°)	2415.2	6.9	B3/2500		G3/2500
BVH (80°-90°)	161.4	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°	7075.9	7075.9	7075.9	7075.9	7075.9	7075.9	7075.9	7075.9	7075.9	7075.9
2.5°	7079.6	7046.1	7066.6	7059.1	7068.4	7079.6	7083.4	7089.0	7107.6	7105.7
5°	7064.7	7031.2	7059.1	7049.8	7074.0	7100.1	7122.5	7143.0	7172.9	7185.9
7.5°	7033.0	7010.6	7038.6	7066.6	7111.3	7150.5	7182.2	7228.8	7271.7	7279.1
10°	6848.4	6831.6	6896.9	6969.6	7092.7	7199.0	7267.9	7322.0	7368.6	7376.1
12.5°	6656.4	6635.9	6708.6	6807.4	7006.9	7199.0	7344.4	7415.2	7456.3	7480.5
15°	6624.7	6607.9	6648.9	6734.7	6900.6	7148.6	7396.6	7527.1	7562.5	7590.5
17.5°	6777.6	6745.9	6762.7	6792.5	6889.4	7102.0	7437.6	7653.9	7708.0	7737.8
20°	7131.8	7087.1	7061.0	7001.3	6984.5	7109.5	7433.9	7806.8	7877.7	7914.9
22.5°	7603.6	7573.7	7517.8	7366.8	7202.7	7200.8	7504.7	8002.6	8135.0	8170.4
25°	8174.1	8129.4	8058.5	7853.4	7538.3	7381.7	7624.1	8252.4	8474.3	8483.6
27.5°	8830.4	8763.3	8666.3	8396.0	7970.9	7665.1	7806.8	8539.6	8864.0	8860.3
30°	9522.2	9455.0	9352.5	9024.3	8489.2	8047.3	8060.4	8849.1	9326.4	9305.9
32.5°	10027.5	9977.1	9956.6	9703.0	9085.9	8498.5	8351.2	9192.1	9896.9	9878.3
35°	10415.3	10350.0	10374.3	10245.6	9736.6	9003.8	8707.4	9600.5	10590.5	10588.7
37.5°	10799.4	10741.6	10762.1	10676.3	10338.8	9645.2	9141.8	10100.2	11450.1	11491.1
40°	11149.9	11088.4	11170.4	11090.2	10806.8	10327.6	9635.9	10665.1	12445.8	12524.1
42.5°	11360.6	11312.1	11448.2	11450.1	11213.3	10903.8	10178.5	11287.9	13598.0	13773.3
45°	11433.3	11416.5	11621.6	11664.5	11573.2	11237.5	10667.0	11966.6	14839.8	15153.1
47.5°	11355.0	11323.3	11606.7	11765.2	11837.9	11394.2	11071.6	12701.2	16107.7	16566.4
50°	10959.7	10898.2	11319.6	11653.3	11912.5	11496.7	11479.9	13549.6	17549.0	18050.5
52.5°	10249.3	10202.7	10681.9	11261.8	11748.4	11547.1	11938.6	14476.2	18917.5	19566.4
55°	9341.3	9279.8	9807.4	10564.4	11340.1	11530.3	12397.3	15512.9	20532.2	21190.4
57.5°	7901.9	7778.8	8446.3	9341.3	10674.4	11509.8	12874.6	16544.0	22173.0	22961.7
60°	5802.4	5619.7	6438.2	7499.2	9373.0	11310.3	13465.7	17700.0	24142.0	24852.4
62.5°	3378.5	3272.3	3807.4	4797.4	7064.7	10135.6	13797.5	19044.3	26077.4	26823.2
65°	2623.4	2593.6	2640.2	2716.6	3932.3	7588.6	12773.9	20355.1	28538.5	29060.6
67.5°	2399.7	2377.3	2397.8	2254.2	1995.0	4226.9	10105.8	20687.0	31175.0	31492.0
70°	2133.0	2106.9	2174.0	2051.0	1569.9	1922.3	6529.6	19482.5	33272.6	33867.4
72.5°	1737.7	1707.9	1864.5	1808.6	1322.0	1234.3	3279.7	16620.4	33052.6	34286.9
75°	1335.0	1318.2	1504.7	1551.3	1077.7	971.4	1573.7	12354.4	29086.7	30330.4
77.5°	1036.7	1023.6	1118.7	1288.4	868.9	753.3	967.7	7836.6	21919.4	22137.6
80°	777.5	740.2	827.9	997.5	676.8	550.0	656.3	4570.0	13855.3	12559.5
82.5°	486.6	468.0	540.7	665.6	477.3	378.5	427.0	2524.6	5552.6	3270.4
85°	277.8	270.4	294.6	380.4	259.2	218.2	244.3	1115.0	1014.3	697.3
87.5°	111.9	108.1	134.2	169.7	95.1	80.2	85.8	268.5	223.7	207.0
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°
7075.9	0°	7075.9	7075.9	7075.9	7075.9	7075.9	7075.9	7075.9	7075.9	7075.9	7075.9
7103.9	2.5°	7096.4	7096.4	7070.3	7029.3	6982.7	6952.8	6904.4	6891.3	6841.0	6826.1
7167.3	5°	7182.2	7167.3	7087.1	6971.5	6813.0	6667.6	6507.2	6406.5	6264.8	6214.5
7292.2	7.5°	7290.3	7249.3	7111.3	6857.8	6525.9	6199.6	5860.2	5602.9	5356.8	5269.2
7394.7	10°	7389.1	7331.3	7096.4	6652.7	6078.4	5513.4	4972.7	4594.2	4307.1	4189.6
7508.5	12.5°	7488.0	7381.7	6997.6	6311.4	5442.6	4676.2	4100.1	3805.5	3628.4	3486.7
7601.7	15°	7581.2	7432.0	6844.7	5854.6	4745.2	3967.7	3542.6	3307.7	3166.0	3072.7
7737.8	17.5°	7689.3	7474.9	6615.4	5274.8	4081.5	3477.4	3130.6	2988.8	2960.9	2949.7
7924.3	20°	7840.4	7514.1	6313.3	4625.9	3593.0	3085.8	2906.8	2893.8	2891.9	2886.3
8148.0	22.5°	8002.6	7560.7	5914.3	4036.7	3177.2	2841.5	2809.9	2783.7	2767.0	2765.1
8418.4	25°	8194.6	7575.6	5414.6	3553.8	2822.9	2725.9	2688.7	2649.5	2638.3	2638.3
8726.0	27.5°	8381.1	7525.3	4832.9	3134.3	2623.4	2619.7	2571.2	2558.1	2556.3	2561.9
9076.5	30°	8567.5	7430.2	4254.9	2746.5	2507.8	2507.8	2491.0	2500.3	2507.8	2526.4
9557.6	32.5°	8819.2	7329.5	3771.9	2459.3	2407.1	2388.5	2405.2	2423.9	2431.4	2455.6
10189.7	35°	9188.4	7258.6	3387.9	2302.7	2302.7	2278.5	2287.8	2284.1	2267.3	2256.1
10954.1	37.5°	9676.9	7254.9	3070.9	2230.0	2215.1	2211.3	2213.2	2189.0	2123.7	2045.4
11878.9	40°	10264.3	7355.6	2826.6	2179.6	2168.5	2190.8	2179.6	2114.4	1935.4	1799.3
13016.3	42.5°	11052.9	7642.7	2670.0	2118.1	2151.7	2179.6	2134.9	1909.3	1788.1	1696.7
14312.2	45°	11981.5	8108.9	2589.8	2052.9	2120.0	2153.5	1937.2	1838.4	1741.5	1631.5
15725.5	47.5°	13033.1	8696.2	2571.2	1991.3	2049.1	2069.6	1853.3	1808.6	1698.6	1579.3
17146.2	50°	14177.9	9391.7	2621.5	1918.6	1946.6	1875.7	1825.4	1784.4	1670.6	1553.2
18602.4	52.5°	15361.9	10158.0	2722.2	1819.8	1844.0	1765.7	1814.2	1778.8	1653.8	1495.4
20107.1	55°	16525.4	10929.9	2819.2	1704.2	1739.6	1666.9	1782.5	1756.4	1577.4	1398.4
21712.5	57.5°	17707.5	11698.1	2914.3	1601.6	1638.9	1571.8	1732.2	1696.7	1491.6	1308.9
23465.1	60°	18936.2	12443.9	2959.0	1502.8	1528.9	1484.2	1655.7	1594.2	1394.7	1217.5
25188.0	62.5°	20086.6	13064.8	2886.3	1404.0	1420.8	1402.1	1555.0	1473.0	1297.7	1115.0
26983.5	65°	21240.8	13434.0	2662.6	1307.0	1310.8	1301.4	1413.3	1342.5	1184.0	1025.5
28555.3	67.5°	22286.8	13640.9	2306.4	1202.6	1193.3	1189.6	1280.9	1200.8	1074.0	936.0
29750.5	70°	22508.6	13115.1	1762.0	1079.6	1079.6	1070.2	1135.5	1053.5	952.8	840.9
28894.7	72.5°	20558.3	11032.4	1251.1	939.7	954.6	936.0	990.1	921.1	829.7	755.1
24902.7	75°	16577.6	8090.2	909.9	796.2	822.3	790.6	840.9	792.4	714.1	712.3
17161.2	77.5°	11390.4	5002.5	660.0	656.3	675.0	633.9	691.7	665.6	594.8	563.1
7469.3	80°	4860.8	1995.0	481.0	507.2	507.2	469.9	537.0	544.4	482.9	468.0
1441.3	82.5°	967.7	566.8	337.5	348.7	328.2	317.0	380.4	421.4	581.7	647.0
434.4	85°	290.9	208.8	203.2	190.2	167.8	169.7	223.7	423.2	522.1	298.3
143.6	87.5°	80.2	52.2	54.1	42.9	35.4	46.6	76.4	320.7	175.3	74.6
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>
7075.9
6850.3
6251.8
5280.4
4215.7
3533.3
3089.5
2957.1
2904.9
2785.6
2649.5
2576.8
2539.5
2476.1
2282.2
2047.3
1795.5
1693.0
1624.0
1569.9
1540.1
1484.2
1389.1
1305.2
1211.9
1113.1
1014.3
924.8
837.2
732.8
641.4
527.7
468.0
648.9
257.3
63.4
0.0

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