

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: P950424

Luminaire Tested: **GALN-SB4D-850-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-850-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38126 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

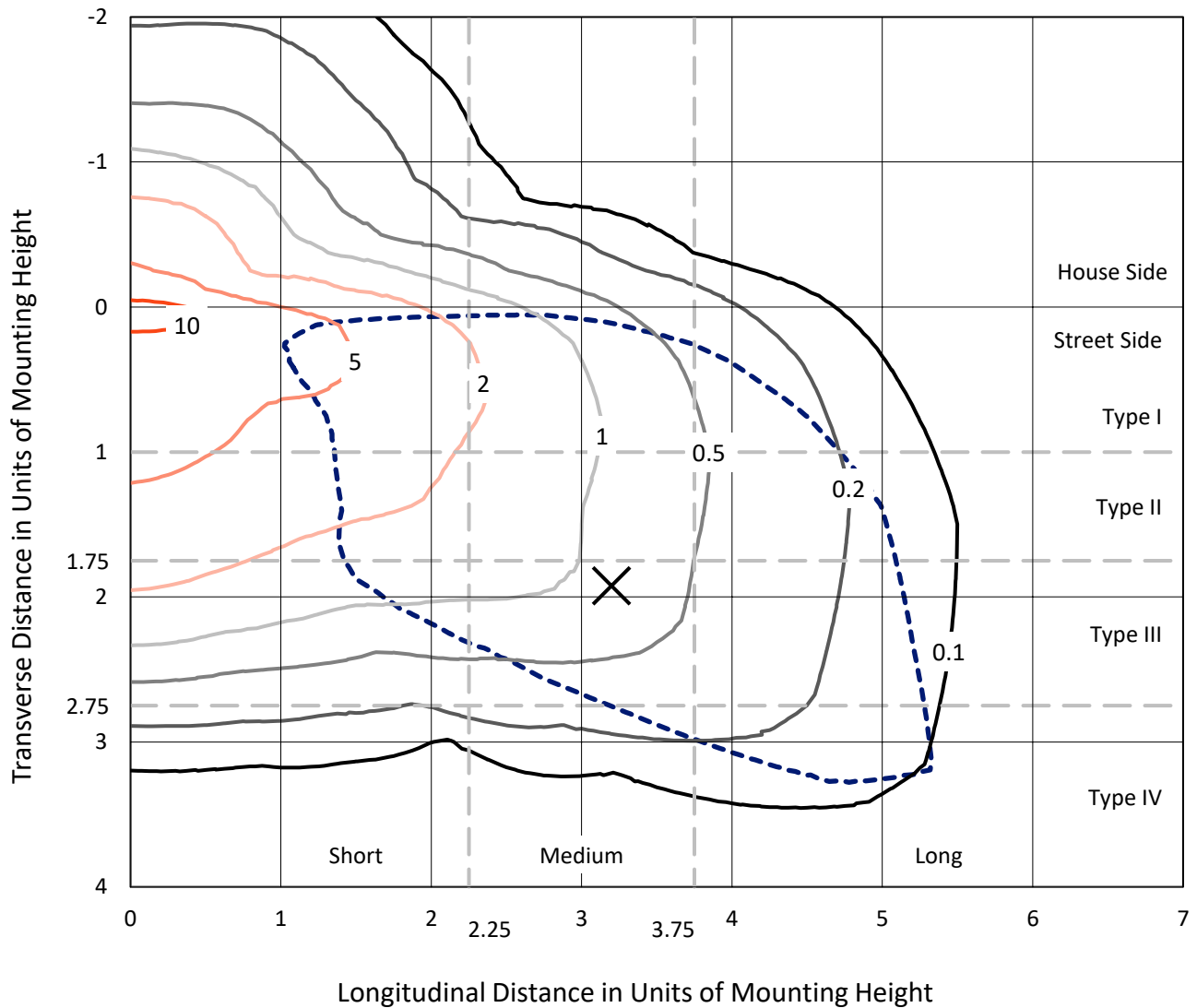
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950424
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Iso-Footcandle Lines of Horizontal Illumination

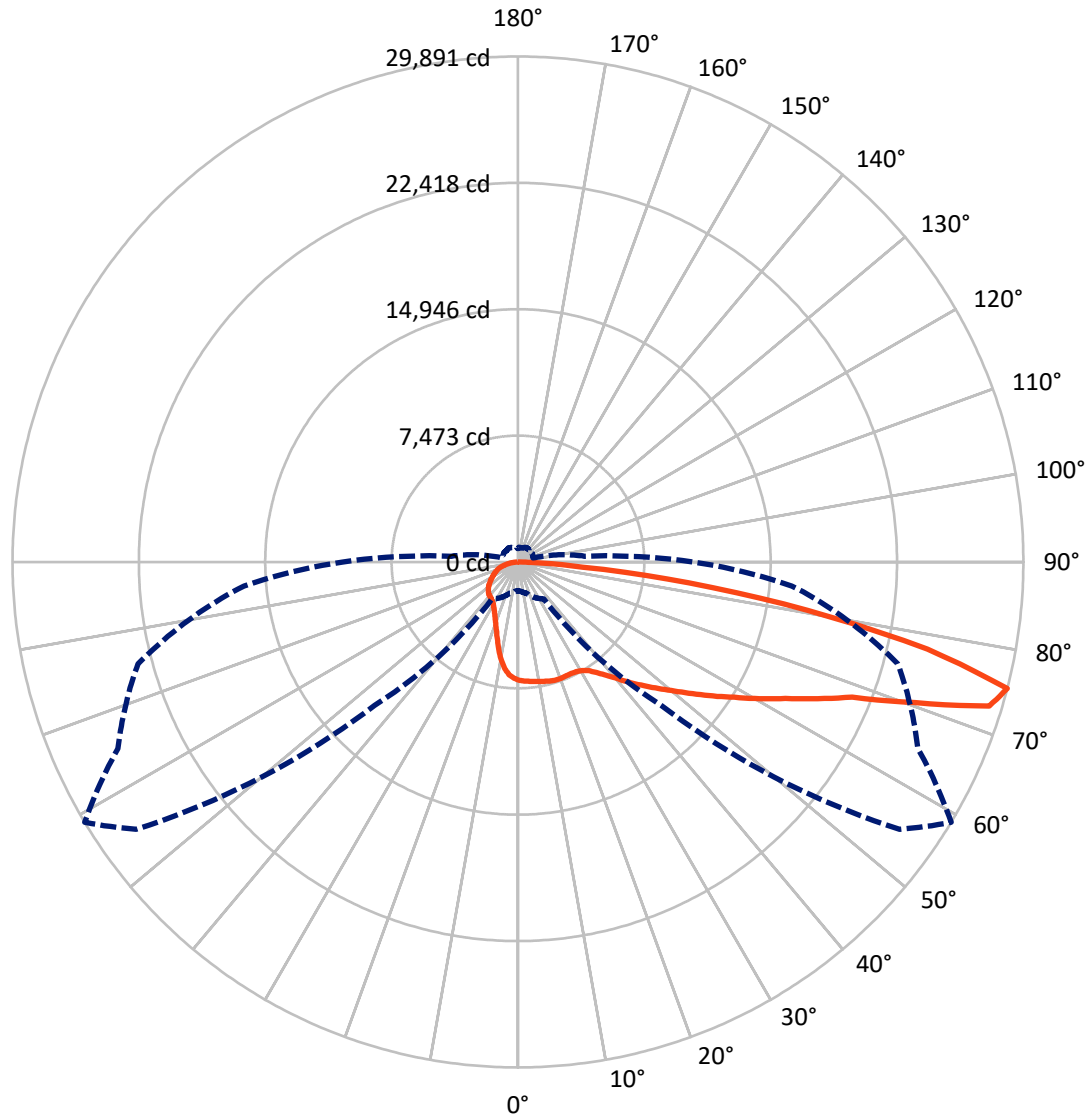
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type IV - Medium - N/A

REPORT NUMBER: P950424
CATALOG NUMBER: GALN-SB4D-850-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7150.8	0.0	7150.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	30975.2	0.0	30975.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	38126.0	0.0	38126.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.5	1.6
10°-20°	1603.9	4.2
20°-30°	2436.2	6.4
30°-40°	3621.3	9.5
40°-50°	5385.5	14.1
50°-60°	7310.2	19.2
60°-70°	8924.5	23.4
70°-80°	7003.8	18.4
80°-90°	1213.2	3.2
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°	38126.0	100.0
0°-180°	38126.0	100.0



REPORT NUMBER: P950424

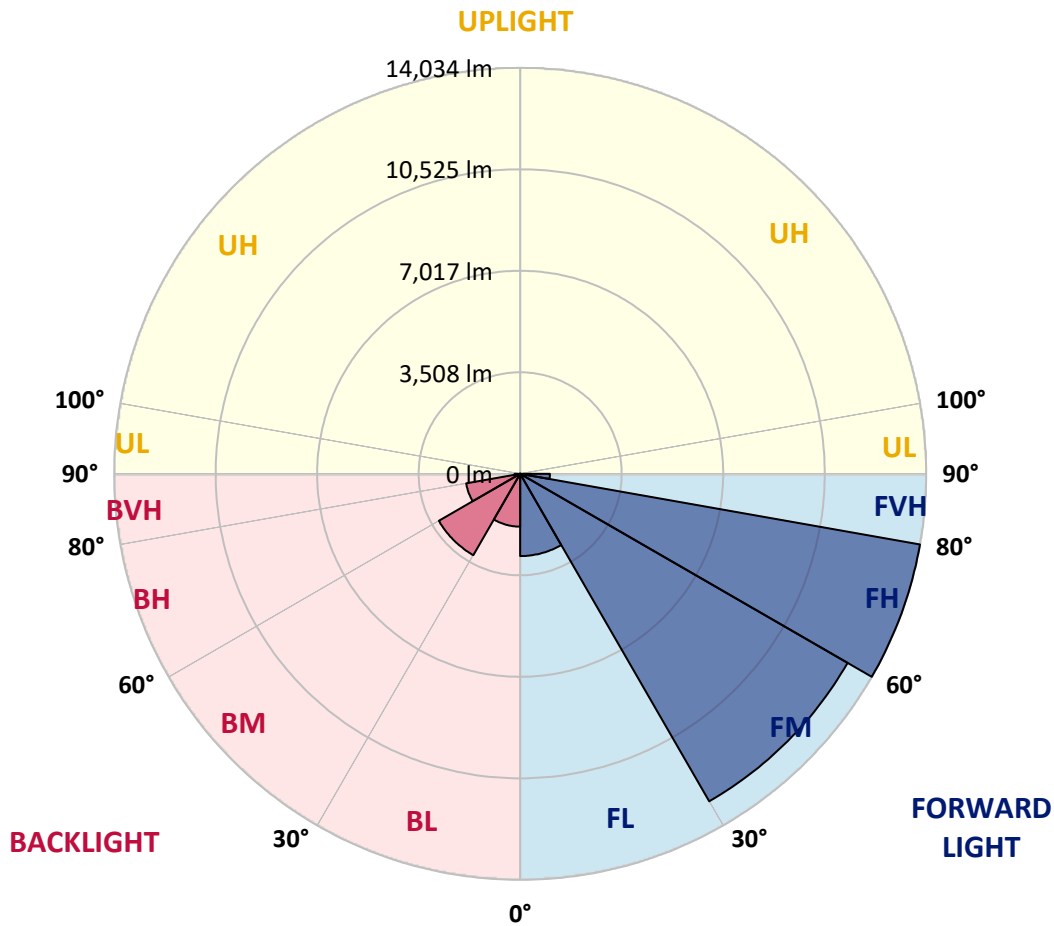
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2842.7	7.5			
FM (30°-60°)	13071.2	34.3			
FH (60°-80°)	14033.8	36.8			G5
FVH (80°-90°)	1027.5	2.7			G5
BL (0°-30°)	1824.8	4.8	B3/2500		
BM (30°-60°)	3245.7	8.5	B3/5000		
BH (60°-80°)	1894.5	5.0	B3/2500		G3/2500
BVH (80°-90°)	185.7	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-G5

Type IV Medium



REPORT NUMBER: P950424

CATALOG NUMBER: GALN-SB4D-850-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	6997.9	6997.9	6997.9	6997.9	6997.9	6997.9	6997.9	6997.9	6997.9	6997.9
2.5°	7057.4	7032.8	7057.4	7047.2	7043.1	7034.9	7036.9	7051.3	7043.1	7053.3
5°	7010.2	6995.9	7020.5	7014.4	7041.0	7045.1	7071.8	7088.2	7098.4	7100.5
7.5°	6932.3	6918.0	6952.8	6981.5	7039.0	7055.4	7110.7	7137.4	7151.8	7176.4
10°	6647.2	6641.1	6727.2	6835.9	6971.3	7055.4	7139.5	7184.6	7207.1	7272.8
12.5°	6142.7	6150.9	6263.7	6472.9	6743.6	7014.4	7172.3	7237.9	7272.8	7354.8
15°	5660.7	5658.7	5781.7	6005.3	6384.7	6833.9	7188.7	7301.5	7361.0	7482.0
17.5°	5381.8	5373.6	5459.7	5629.9	5982.7	6557.0	7147.7	7336.4	7463.5	7615.3
20°	5330.5	5314.1	5359.2	5443.3	5693.5	6253.4	7041.0	7336.4	7545.6	7742.4
22.5°	5517.1	5490.5	5472.0	5461.8	5572.5	6003.2	6920.0	7311.7	7666.6	7925.0
25°	5892.5	5851.4	5757.1	5664.8	5632.0	5890.4	6813.4	7305.6	7847.0	8171.1
27.5°	6499.6	6448.3	6257.5	6036.0	5837.1	5947.8	6766.2	7342.5	8046.0	8431.6
30°	7252.3	7196.9	6956.9	6616.5	6259.6	6161.1	6825.7	7451.2	8300.3	8778.2
32.5°	7927.0	7865.5	7660.4	7313.8	6831.8	6530.3	7014.4	7658.4	8700.3	9260.2
35°	8525.9	8454.1	8269.5	7949.6	7533.2	7049.2	7354.8	8025.5	9268.4	10043.6
37.5°	9112.5	9028.4	8827.4	8489.0	8197.8	7740.4	7824.5	8497.2	10023.1	10995.3
40°	9768.8	9647.8	9403.7	9069.4	8786.4	8550.5	8441.8	9075.6	10790.2	12057.7
42.5°	10404.6	10289.8	9998.5	9713.4	9358.6	9290.9	9157.6	9752.4	11629.1	13224.7
45°	11089.6	10952.2	10599.5	10238.5	10014.9	9783.2	9850.9	10429.2	12451.5	14414.3
47.5°	11731.6	11577.8	11161.4	10759.4	10636.4	10197.5	10486.7	11173.7	13306.8	15620.3
50°	12078.2	11926.4	11579.8	11216.8	11120.4	10708.2	11175.8	11992.1	14203.0	16822.1
52.5°	12367.4	12203.3	11750.1	11549.1	11520.4	11264.0	12024.9	12927.3	15099.3	17884.5
55°	12675.1	12492.5	11914.1	11733.7	11864.9	11887.5	13031.9	13987.7	16046.9	18920.3
57.5°	13029.9	12798.1	12072.1	11889.5	12201.3	12617.6	14188.7	15087.0	16978.0	19880.1
60°	13364.2	13130.4	12375.6	12137.7	12564.3	13464.7	15515.7	16418.1	18032.2	20735.4
62.5°	13429.8	13237.0	12617.6	12615.6	13056.5	14453.3	17086.7	17761.5	18953.1	21580.4
65°	12293.6	12172.6	11805.4	12597.1	13762.1	15876.6	18836.2	19480.2	20124.2	22318.8
67.5°	9356.6	9373.0	9346.3	10874.3	13191.9	17921.5	21369.2	21319.9	21570.2	23147.4
70°	4278.3	4374.7	5002.3	7506.6	10568.7	18157.3	25557.3	24919.4	23385.3	24220.0
72.5°	2311.5	2385.3	2641.7	3636.4	6353.9	16143.3	28687.1	29140.3	25799.3	24942.0
75°	1696.2	1737.2	1915.6	2311.5	2668.3	11998.2	27565.2	29891.0	26100.8	23258.1
77.5°	1269.6	1288.0	1433.6	1831.5	1366.0	6325.2	22025.5	24755.3	22343.4	19109.0
80°	920.9	941.4	1050.1	1374.2	957.8	2313.5	15123.9	17375.9	15302.4	12180.8
82.5°	635.8	644.0	691.2	935.2	668.6	898.3	8581.3	10189.3	8542.3	4274.2
85°	383.5	393.8	414.3	545.6	379.4	426.6	3704.1	3831.2	2553.5	1021.4
87.5°	157.9	168.2	184.6	229.7	149.7	119.0	611.2	767.1	477.9	299.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950424
 CATALOG NUMBER: GALN-SB4D-850-U-SL3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6997.9	0°	6997.9	6997.9	6997.9	6997.9	6997.9	6997.9	6997.9	6997.9	6997.9	6997.9
7018.5	2.5°	7008.2	6993.8	6954.9	6901.5	6852.3	6790.8	6764.1	6741.6	6721.1	6682.1
7073.8	5°	7051.3	7012.3	6907.7	6772.3	6618.5	6450.3	6286.3	6173.4	6077.1	6005.3
7137.4	7.5°	7116.9	7043.1	6852.3	6575.4	6222.7	5861.7	5535.6	5303.8	5129.5	5065.9
7227.7	10°	7184.6	7096.4	6764.1	6276.0	5666.9	5111.0	4678.3	4440.4	4300.9	4255.8
7334.3	12.5°	7264.6	7135.4	6626.7	5859.6	5045.4	4436.3	4058.9	3919.4	3847.6	3823.0
7465.6	15°	7381.5	7168.2	6419.6	5338.7	4452.7	3944.0	3700.0	3603.6	3566.7	3564.6
7600.9	17.5°	7469.7	7174.3	6097.6	4780.8	3997.4	3646.6	3445.6	3408.7	3433.3	3470.3
7734.2	20°	7568.1	7119.0	5675.1	4272.2	3677.4	3386.2	3302.1	3326.7	3386.2	3439.5
7910.6	22.5°	7637.8	7018.5	5164.4	3876.4	3400.5	3236.4	3232.3	3283.6	3316.4	3343.1
8117.8	25°	7699.4	6848.2	4622.9	3544.1	3172.9	3146.2	3191.3	3174.9	3152.4	3174.9
8324.9	27.5°	7744.5	6579.5	4138.9	3252.9	3012.9	3084.7	3058.0	3021.1	3019.0	3031.3
8569.0	30°	7730.1	6220.6	3741.0	2976.0	2900.1	2969.8	2906.2	2900.1	2893.9	2900.1
8936.1	32.5°	7730.1	5812.5	3435.4	2785.2	2828.3	2801.6	2795.5	2781.1	2756.5	2754.5
9434.5	35°	7773.2	5404.3	3172.9	2682.7	2768.8	2705.2	2709.3	2674.5	2623.2	2598.6
10094.9	37.5°	7861.4	5076.2	2912.4	2633.5	2664.2	2662.2	2645.8	2586.3	2496.0	2418.1
10919.4	40°	8074.7	4979.8	2734.0	2610.9	2615.0	2639.6	2596.5	2481.7	2276.6	2149.4
11756.2	42.5°	8409.0	5141.8	2695.0	2555.5	2582.2	2606.8	2522.7	2256.1	2110.5	2034.6
12634.0	45°	8833.6	5424.8	2779.1	2475.5	2504.2	2547.3	2297.1	2169.9	2104.3	2106.4
13503.6	47.5°	9370.9	5722.2	2935.0	2405.8	2391.4	2416.1	2147.4	2069.4	1979.2	2001.8
14338.4	50°	9992.4	6023.7	3082.6	2311.5	2266.3	2186.3	2051.0	1977.1	1862.3	1809.0
15144.4	52.5°	10665.1	6315.0	3142.1	2196.6	2131.0	2038.7	1985.3	1895.1	1755.6	1667.4
15905.3	55°	11302.9	6579.5	3076.5	2059.2	1995.6	1923.8	1915.6	1860.2	1710.5	1587.5
16582.2	57.5°	11905.9	6801.0	2912.4	1919.7	1858.2	1815.1	1870.5	1843.8	1655.1	1497.2
17222.1	60°	12416.6	6952.8	2674.5	1778.2	1735.1	1712.6	1796.7	1788.5	1577.2	1400.8
17796.3	62.5°	12822.7	7012.3	2412.0	1642.8	1632.6	1591.6	1694.1	1694.1	1478.8	1306.5
18300.9	65°	13140.6	6954.9	2145.3	1509.5	1530.0	1468.5	1569.0	1556.7	1374.2	1222.4
18881.3	67.5°	13421.6	6766.2	1850.0	1378.3	1425.4	1347.5	1437.7	1409.0	1259.3	1138.3
19383.8	70°	13546.7	6327.3	1513.6	1247.0	1304.4	1228.5	1306.5	1253.1	1130.1	1048.1
18832.1	72.5°	12541.7	5258.7	1191.6	1109.6	1158.8	1097.3	1165.0	1103.4	990.6	953.7
16262.2	75°	10375.9	3946.1	916.8	959.9	996.8	949.6	994.7	949.6	847.1	873.7
12012.6	77.5°	7535.3	2664.2	701.4	801.9	818.3	793.7	832.7	781.4	689.1	683.0
5986.8	80°	3747.1	1560.8	549.7	633.8	627.6	611.2	656.3	631.7	553.8	586.6
1616.2	82.5°	1085.0	668.6	399.9	445.1	432.8	436.9	469.7	482.0	721.9	715.8
502.5	85°	340.5	262.5	240.0	248.2	235.9	242.0	276.9	549.7	508.6	297.4
155.9	87.5°	88.2	90.2	59.5	63.6	65.6	77.9	88.2	334.3	160.0	104.6
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>
6997.9
6663.6
5945.8
4955.2
4186.0
3829.2
3572.8
3484.6
3458.0
3357.5
3189.3
3051.9
2922.6
2781.1
2623.2
2444.8
2165.8
2034.6
2116.6
2059.2
1823.3
1665.4
1587.5
1489.0
1394.7
1300.3
1214.2
1130.1
1031.6
922.9
797.8
652.2
580.4
732.2
322.0
110.8
0.0

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