

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: P947587

Luminaire Tested: **GALN-SB2D-927-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947587
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-SB2D-927-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 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: 12312 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

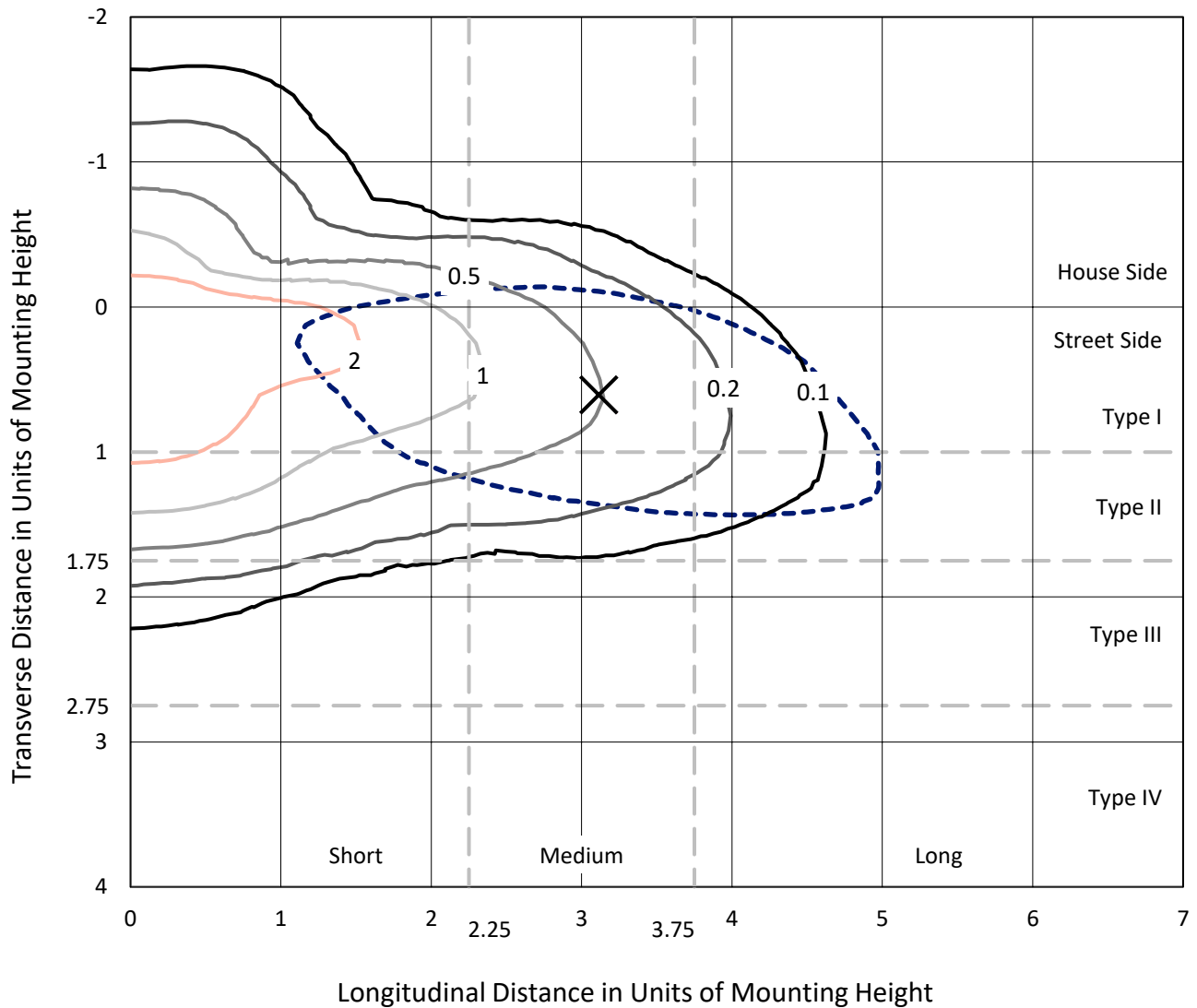
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947587
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Iso-Footcandle Lines of Horizontal Illumination

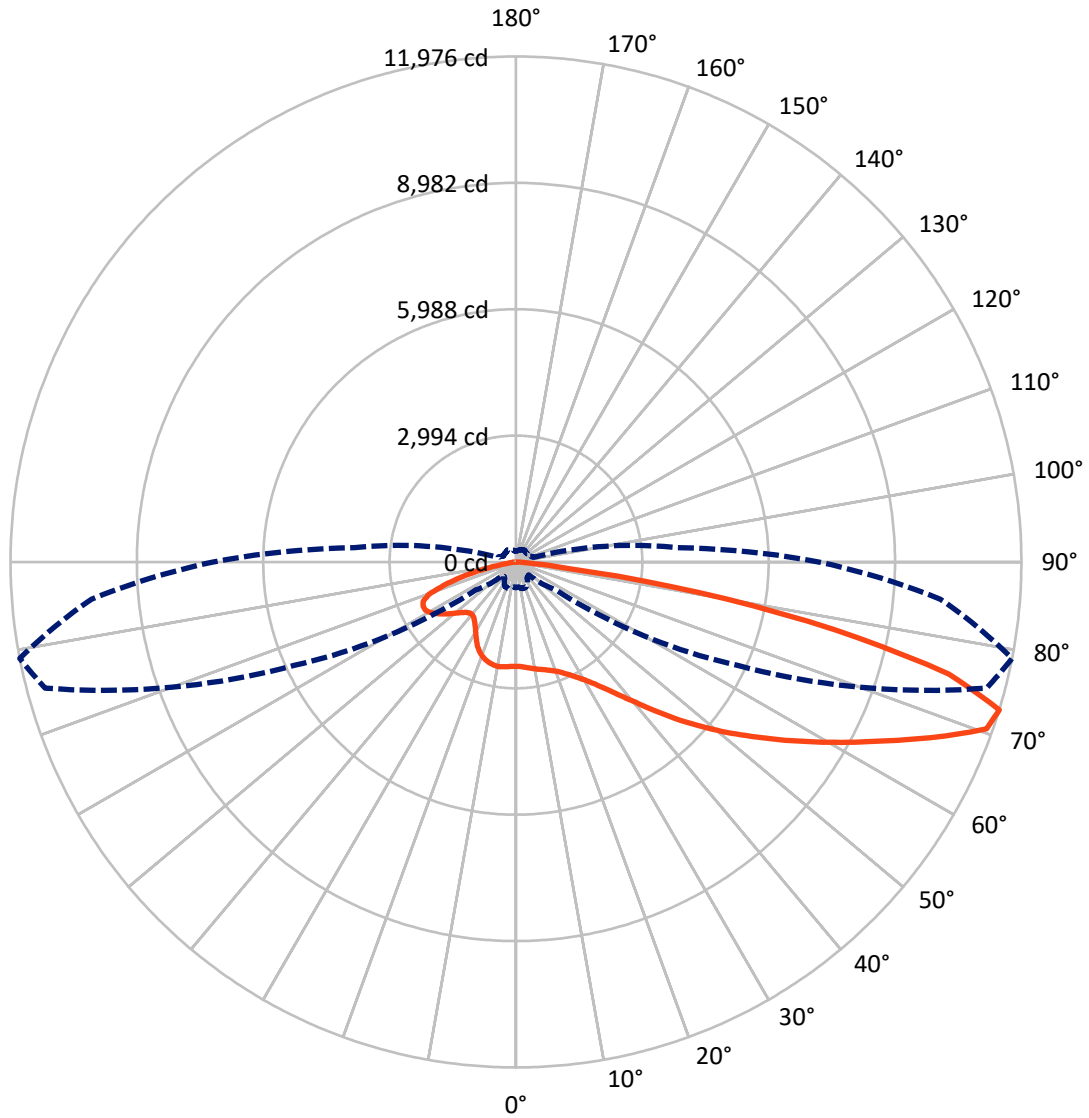
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Medium - N/A

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CATALOG NUMBER: GALN-SB2D-927-U-SL2

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	2709.3	0.0	2709.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	9602.7	0.0	9602.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	12312.0	0.0	12312.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.3	1.8
10°-20°	586.5	4.8
20°-30°	946.4	7.7
30°-40°	1420.5	11.5
40°-50°	2015.0	16.4
50°-60°	2544.7	20.7
60°-70°	2584.5	21.0
70°-80°	1761.4	14.3
80°-90°	228.5	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°	12312.0	100.0
0°-180°	12312.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947587

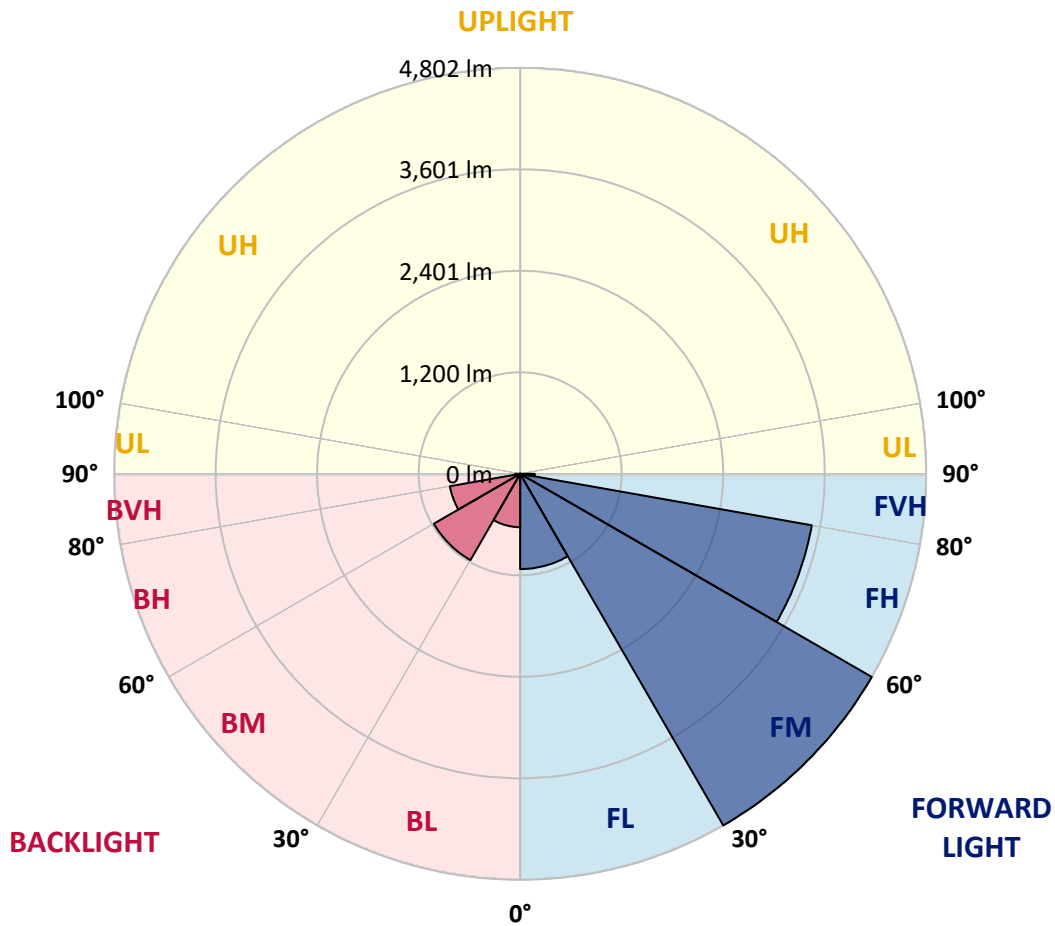
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1126.2	9.1			
FM (30°-60°)	4801.9	39.0			
FH (60°-80°)	3502.4	28.4			G2/5000
FVH (80°-90°)	172.2	1.4			G2/225
BL (0°-30°)	631.1	5.1	B2/1000		
BM (30°-60°)	1178.3	9.6	B2/2500		
BH (60°-80°)	843.6	6.9	B2/1000		G2/1000
BVH (80°-90°)	56.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



REPORT NUMBER: P947587

CATALOG NUMBER: GALN-SB2D-927-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	2471.5	2471.5	2471.5	2471.5	2471.5	2471.5	2471.5	2471.5	2471.5	2471.5
2.5°	2472.8	2461.1	2468.3	2465.7	2468.9	2472.8	2474.1	2476.1	2482.6	2481.9
5°	2467.6	2455.9	2465.7	2462.4	2470.9	2480.0	2487.8	2495.0	2505.4	2509.9
7.5°	2456.5	2448.7	2458.5	2468.3	2483.9	2497.6	2508.6	2524.9	2539.9	2542.5
10°	2392.1	2386.2	2409.0	2434.4	2477.4	2514.5	2538.6	2557.5	2573.8	2576.4
12.5°	2325.0	2317.8	2343.2	2377.7	2447.4	2514.5	2565.3	2590.0	2604.4	2612.8
15°	2313.9	2308.1	2322.4	2352.3	2410.3	2496.9	2583.5	2629.1	2641.5	2651.3
17.5°	2367.3	2356.2	2362.1	2372.5	2406.4	2480.6	2597.9	2673.4	2692.3	2702.7
20°	2491.1	2475.4	2466.3	2445.5	2439.6	2483.2	2596.6	2726.8	2751.6	2764.6
22.5°	2655.8	2645.4	2625.9	2573.1	2515.8	2515.2	2621.3	2795.2	2841.4	2853.8
25°	2855.1	2839.5	2814.7	2743.1	2633.0	2578.3	2663.0	2882.5	2960.0	2963.2
27.5°	3084.3	3060.9	3027.0	2932.6	2784.1	2677.3	2726.8	2982.8	3096.1	3094.8
30°	3326.0	3302.5	3266.7	3152.1	2965.2	2810.8	2815.4	3090.9	3257.6	3250.4
32.5°	3502.5	3484.9	3477.7	3389.1	3173.6	2968.4	2917.0	3210.7	3456.9	3450.4
35°	3637.9	3615.1	3623.6	3578.7	3400.9	3144.9	3041.4	3353.3	3699.1	3698.5
37.5°	3772.1	3751.9	3759.1	3729.1	3611.2	3368.9	3193.1	3527.9	3999.4	4013.7
40°	3894.5	3873.0	3901.7	3873.7	3774.7	3607.3	3365.7	3725.2	4347.1	4374.5
42.5°	3968.1	3951.2	3998.7	3999.4	3916.7	3808.5	3555.2	3942.7	4749.6	4810.8
45°	3993.5	3987.6	4059.3	4074.3	4042.3	3925.1	3725.8	4179.8	5183.3	5292.8
47.5°	3966.1	3955.1	4054.1	4109.4	4134.8	3979.8	3867.2	4436.4	5626.2	5786.4
50°	3828.1	3806.6	3953.8	4070.4	4160.9	4015.6	4009.8	4732.7	6129.6	6304.8
52.5°	3580.0	3563.7	3731.0	3933.6	4103.6	4033.2	4170.0	5056.4	6607.6	6834.3
55°	3262.8	3241.3	3425.6	3690.0	3960.9	4027.4	4330.2	5418.5	7171.6	7401.5
57.5°	2760.0	2717.0	2950.2	3262.8	3728.4	4020.2	4496.9	5778.6	7744.7	8020.2
60°	2026.7	1962.9	2248.8	2619.4	3273.9	3950.5	4703.4	6182.4	8432.5	8680.6
62.5°	1180.1	1143.0	1329.9	1675.7	2467.6	3540.2	4819.3	6651.9	9108.5	9369.0
65°	916.3	905.9	922.2	948.9	1373.5	2650.6	4461.8	7109.8	9968.1	10150.5
67.5°	838.2	830.4	837.5	787.4	696.8	1476.4	3529.8	7225.7	10889.0	10999.7
70°	745.0	735.9	759.4	716.4	548.4	671.4	2280.7	6805.0	11621.7	11829.4
72.5°	607.0	596.6	651.3	631.7	461.7	431.1	1145.6	5805.3	11544.8	11975.9
75°	466.3	460.4	525.6	541.8	376.4	339.3	549.7	4315.2	10159.6	10594.0
77.5°	362.1	357.5	390.8	450.0	303.5	263.1	338.0	2737.2	7656.2	7732.4
80°	271.6	258.5	289.2	348.4	236.4	192.1	229.2	1596.2	4839.5	4386.9
82.5°	170.0	163.5	188.9	232.5	166.7	132.2	149.1	881.8	1939.4	1142.3
85°	97.0	94.4	102.9	132.9	90.5	76.2	85.3	389.5	354.3	243.6
87.5°	39.1	37.8	46.9	59.3	33.2	28.0	30.0	93.8	78.2	72.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947587
 CATALOG NUMBER: GALN-SB2D-927-U-SL2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2471.5	0°	2471.5	2471.5	2471.5	2471.5	2471.5	2471.5	2471.5	2471.5	2471.5	2471.5
2481.3	2.5°	2478.7	2478.7	2469.6	2455.2	2439.0	2428.5	2411.6	2407.0	2389.5	2384.2
2503.4	5°	2508.6	2503.4	2475.4	2435.0	2379.7	2328.9	2272.9	2237.7	2188.2	2170.6
2547.1	7.5°	2546.4	2532.1	2483.9	2395.3	2279.4	2165.4	2046.9	1957.0	1871.1	1840.4
2582.9	10°	2580.9	2560.7	2478.7	2323.7	2123.1	1925.8	1736.9	1604.7	1504.4	1463.4
2622.6	12.5°	2615.4	2578.3	2444.2	2204.5	1901.0	1633.4	1432.1	1329.2	1267.3	1217.8
2655.2	15°	2648.0	2595.9	2390.8	2044.9	1657.4	1385.9	1237.4	1155.3	1105.8	1073.3
2702.7	17.5°	2685.8	2610.9	2310.7	1842.4	1425.6	1214.6	1093.5	1044.0	1034.2	1030.3
2767.8	20°	2738.5	2624.6	2205.2	1615.8	1255.0	1077.8	1015.3	1010.7	1010.1	1008.1
2846.0	22.5°	2795.2	2640.8	2065.8	1410.0	1109.7	992.5	981.4	972.3	966.5	965.8
2940.4	25°	2862.3	2646.1	1891.2	1241.3	986.0	952.1	939.1	925.4	921.5	921.5
3047.9	27.5°	2927.4	2628.5	1688.1	1094.8	916.3	915.0	898.1	893.5	892.9	894.8
3170.3	30°	2992.5	2595.3	1486.2	959.3	875.9	875.9	870.1	873.3	875.9	882.5
3338.3	32.5°	3080.4	2560.1	1317.5	859.0	840.8	834.3	840.1	846.6	849.2	857.7
3559.1	35°	3209.4	2535.3	1183.3	804.3	804.3	795.8	799.1	797.8	791.9	788.0
3826.1	37.5°	3380.0	2534.0	1072.6	778.9	773.7	772.4	773.0	764.6	741.8	714.4
4149.2	40°	3585.2	2569.2	987.3	761.3	757.4	765.2	761.3	738.5	676.0	628.5
4546.4	42.5°	3860.6	2669.5	932.6	739.8	751.5	761.3	745.7	666.9	624.6	592.6
4999.0	45°	4185.0	2832.3	904.6	717.0	740.5	752.2	676.7	642.1	608.3	569.8
5492.7	47.5°	4552.3	3037.5	898.1	695.5	715.7	722.9	647.3	631.7	593.3	551.6
5989.0	50°	4952.2	3280.4	915.7	670.1	679.9	655.2	637.6	623.3	583.5	542.5
6497.6	52.5°	5365.7	3548.0	950.8	635.6	644.1	616.7	633.7	621.3	577.7	522.3
7023.1	55°	5772.1	3817.7	984.7	595.2	607.6	582.2	622.6	613.5	551.0	488.4
7583.9	57.5°	6185.0	4086.0	1017.9	559.4	572.5	549.0	605.0	592.6	521.0	457.2
8196.1	60°	6614.2	4346.5	1033.5	524.9	534.0	518.4	578.3	556.8	487.1	425.3
8797.8	62.5°	7016.0	4563.4	1008.1	490.4	496.3	489.7	543.1	514.5	453.3	389.5
9425.0	65°	7419.1	4692.3	930.0	456.5	457.8	454.6	493.7	468.9	413.5	358.2
9974.0	67.5°	7784.5	4764.6	805.6	420.1	416.8	415.5	447.4	419.4	375.1	326.9
10391.4	70°	7862.0	4580.9	615.4	377.1	377.1	373.8	396.6	368.0	332.8	293.7
10092.5	72.5°	7180.7	3853.5	437.0	328.2	333.4	326.9	345.8	321.7	289.8	263.8
8698.2	75°	5790.3	2825.8	317.8	278.1	287.2	276.1	293.7	276.8	249.4	248.8
5994.2	77.5°	3978.5	1747.3	230.5	229.2	235.8	221.4	241.6	232.5	207.8	196.7
2608.9	80°	1697.8	696.8	168.0	177.1	177.1	164.1	187.6	190.2	168.7	163.5
503.4	82.5°	338.0	198.0	117.9	121.8	114.6	110.7	132.9	147.2	203.2	226.0
151.7	85°	101.6	72.9	71.0	66.4	58.6	59.3	78.2	147.8	182.4	104.2
50.1	87.5°	28.0	18.2	18.9	15.0	12.4	16.3	26.7	112.0	61.2	26.1
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>
2471.5
2392.7
2183.7
1844.4
1472.5
1234.1
1079.1
1032.9
1014.7
973.0
925.4
900.0
887.0
864.9
797.1
715.1
627.2
591.3
567.2
548.4
537.9
518.4
485.2
455.9
423.3
388.8
354.3
323.0
292.4
255.9
224.0
184.3
163.5
226.6
89.9
22.1
0.0

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