

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: P949088

Luminaire Tested: **GALN-SB3D-940-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-940-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22421 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

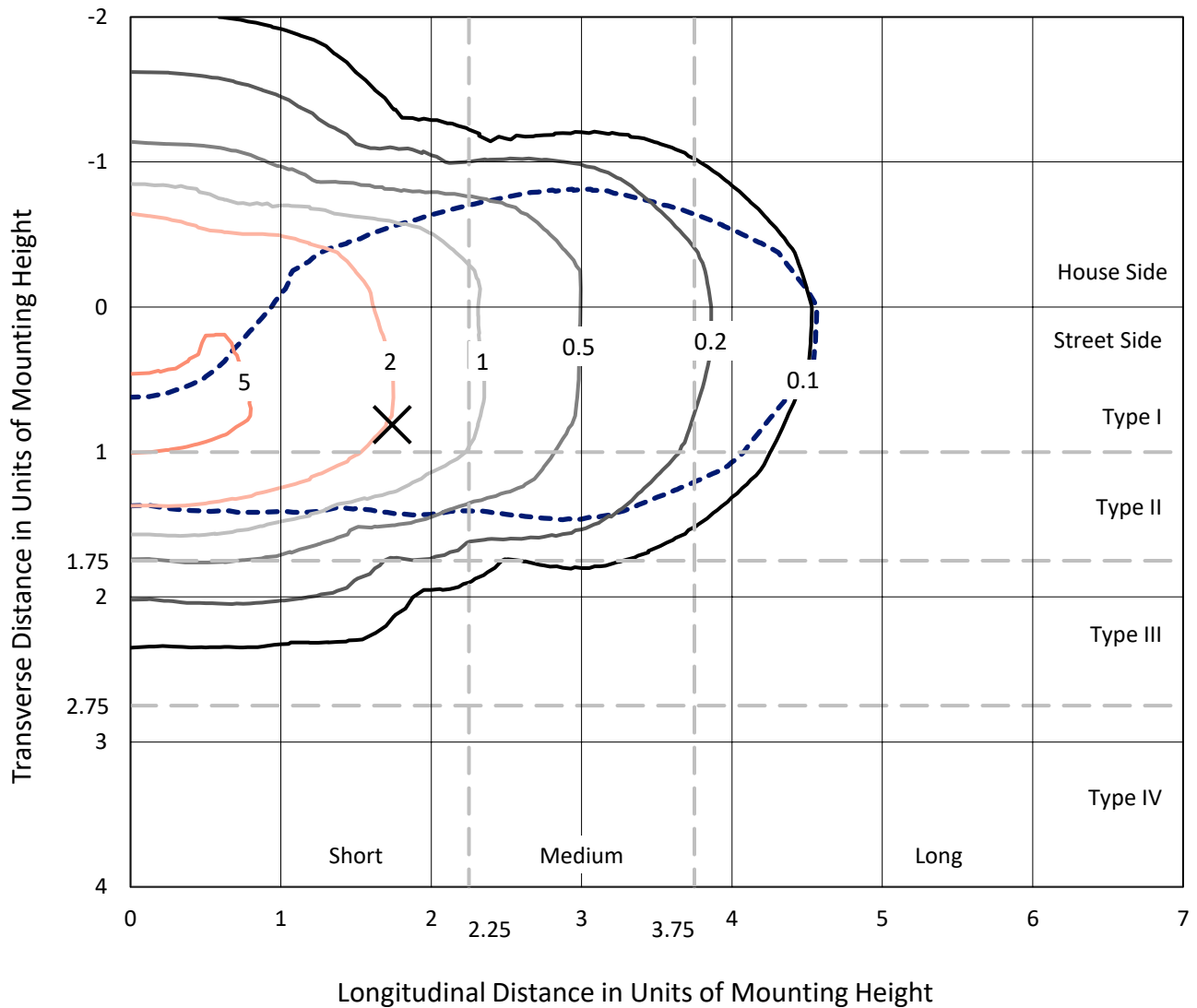
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

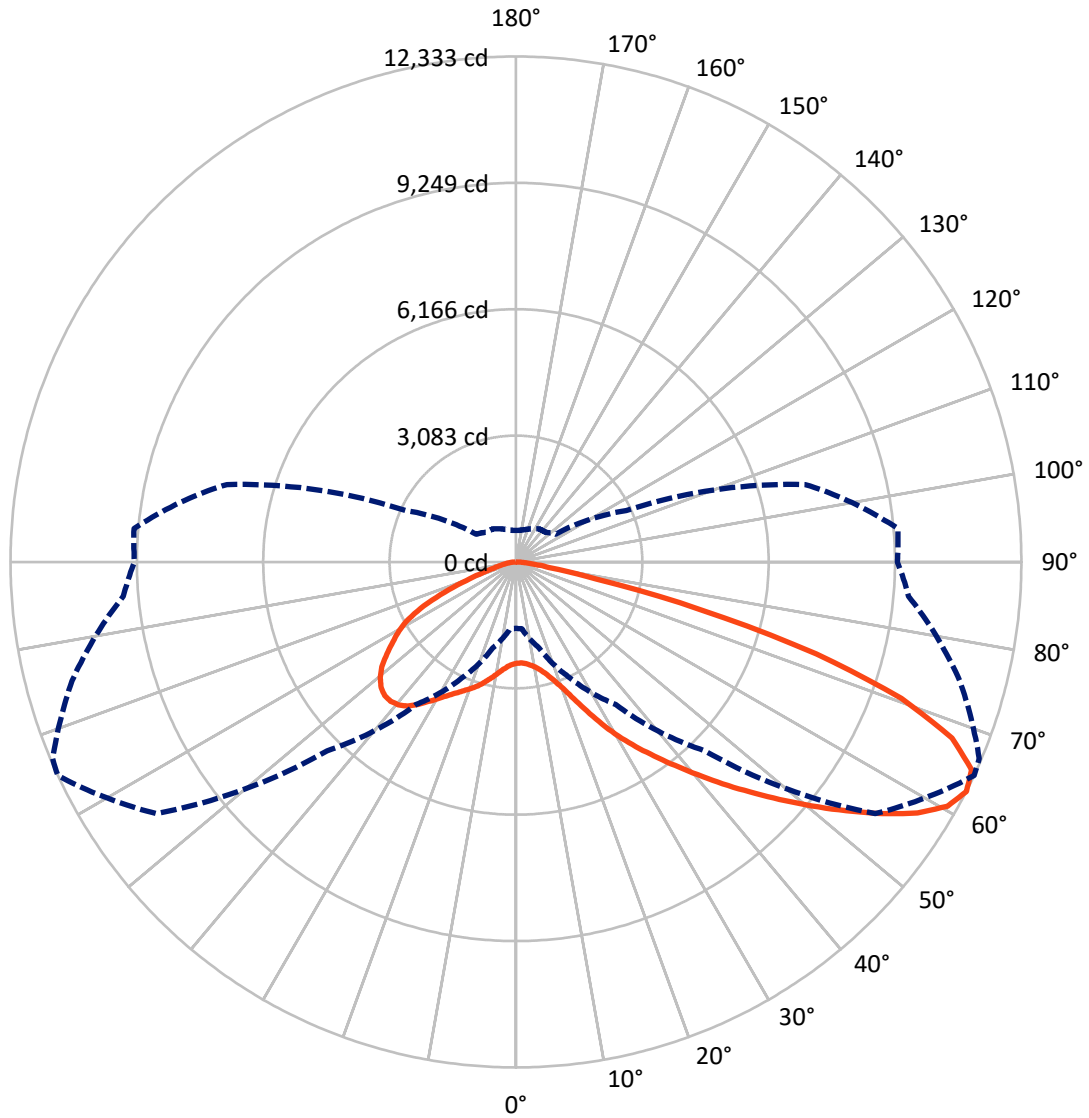
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7075.1	0.0	7075.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	15345.9	0.0	15345.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	22421.0	0.0	22421.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.3	1.1
10°-20°	835.3	3.7
20°-30°	1693.7	7.6
30°-40°	2930.9	13.1
40°-50°	4435.4	19.8
50°-60°	5200.2	23.2
60°-70°	4359.7	19.4
70°-80°	2406.9	10.7
80°-90°	312.6	1.4
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°	22421.0	100.0
0°-180°	22421.0	100.0



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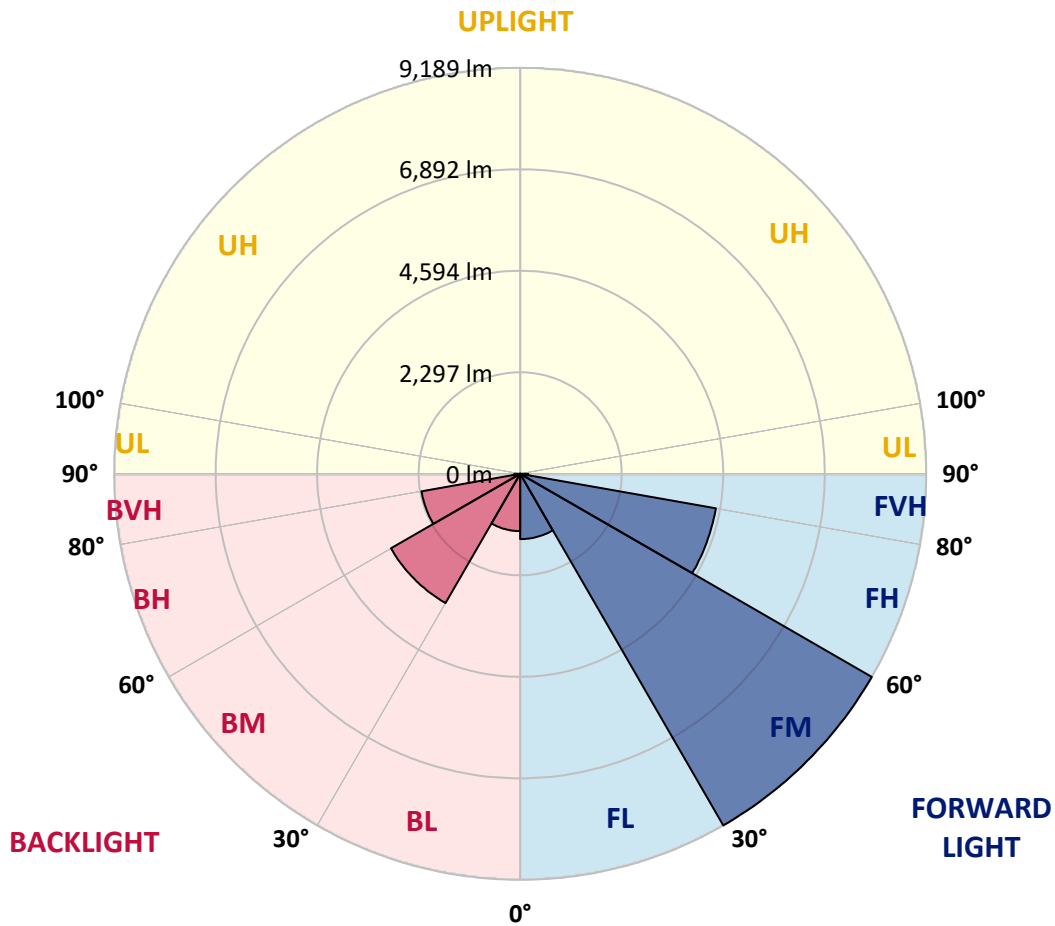
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1477.8	6.6			
FM (30°-60°)	9188.9	41.0			
FH (60°-80°)	4497.0	20.1			G2/5000
FVH (80°-90°)	182.2	0.8			G2/225
BL (0°-30°)	1297.5	5.8	B3/2500		
BM (30°-60°)	3377.5	15.1	B3/5000		
BH (60°-80°)	2269.6	10.1	B3/2500		G3/2500
BVH (80°-90°)	130.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2470.7	2470.7	2470.7	2470.7	2470.7	2470.7	2470.7	2470.7	2470.7	2470.7
2.5°	2454.4	2447.4	2453.2	2453.2	2455.6	2454.4	2462.6	2464.9	2468.4	2475.3
5°	2430.0	2428.8	2439.3	2448.6	2457.9	2466.0	2476.5	2491.6	2494.0	2502.1
7.5°	2421.8	2414.9	2431.1	2442.8	2464.9	2484.7	2512.6	2538.2	2548.6	2552.1
10°	2484.7	2473.0	2488.1	2495.1	2513.7	2533.5	2566.1	2606.8	2618.4	2632.4
12.5°	2591.7	2578.9	2601.0	2611.4	2628.9	2646.3	2668.4	2708.0	2713.8	2739.4
15°	2738.2	2723.1	2737.1	2749.9	2779.0	2795.2	2817.3	2855.7	2855.7	2875.5
17.5°	2937.2	2917.4	2927.8	2932.5	2951.1	2975.5	3012.8	3046.5	3063.9	3057.0
20°	3233.8	3209.3	3209.3	3186.1	3179.1	3198.9	3247.7	3294.3	3312.9	3276.8
22.5°	3679.3	3644.4	3624.6	3545.5	3514.1	3516.4	3565.3	3622.3	3637.4	3573.4
25°	4245.8	4191.1	4164.4	4048.0	3977.1	3915.4	3953.8	4027.1	4048.0	3968.9
27.5°	4812.3	4815.8	4790.2	4650.6	4533.1	4420.3	4400.5	4477.3	4499.4	4409.8
30°	5606.8	5524.2	5475.3	5307.8	5140.3	4982.1	4900.7	4932.1	4937.9	4830.9
32.5°	6291.9	6271.0	6166.3	6019.7	5804.5	5556.7	5420.6	5370.6	5361.3	5208.9
35°	7072.4	7060.8	6950.3	6775.8	6543.2	6198.8	5953.4	5810.3	5798.7	5584.7
37.5°	7865.7	7865.7	7757.6	7566.8	7326.0	6895.6	6522.2	6295.4	6258.2	5979.0
40°	8498.5	8460.2	8479.9	8399.7	8124.0	7666.8	7153.9	6824.7	6774.6	6439.6
42.5°	8858.0	8845.2	8963.8	9053.4	8940.6	8575.3	7849.5	7398.1	7328.3	6946.8
45°	8938.2	8924.3	9136.0	9464.0	9622.2	9472.2	8605.6	8001.8	7916.9	7477.2
47.5°	8753.3	8725.4	9036.0	9553.6	10060.8	10324.8	9424.5	8656.7	8533.4	7993.7
50°	8197.3	8170.5	8640.5	9327.9	10208.5	10904.1	10313.2	9351.2	9162.7	8547.4
52.5°	6988.7	7001.5	7737.8	8682.3	10014.2	11264.7	11078.6	10082.9	9856.0	9113.9
55°	5443.9	5471.8	6376.8	7416.7	9237.2	11210.0	11600.9	10836.6	10611.0	9646.7
57.5°	3898.0	4021.3	4869.3	5898.7	7744.8	10343.4	11714.9	11553.2	11334.5	10228.3
60°	2526.5	2548.6	3421.1	4458.7	5897.6	8803.3	11483.4	12096.4	11925.4	10821.5
62.5°	1619.2	1634.3	2165.9	3118.6	4244.6	6512.9	10704.0	12332.5	12280.2	11213.5
65°	1190.0	1178.4	1455.2	2061.2	2859.2	4016.6	9190.7	12218.6	12322.1	11459.0
67.5°	993.4	977.1	1113.2	1427.3	2106.6	2281.1	6800.2	11477.6	11856.8	11431.0
70°	905.0	891.0	973.6	1059.7	1643.6	1527.3	3428.0	9978.2	10562.1	11113.5
72.5°	766.6	742.1	855.0	941.1	1278.4	1171.4	1416.8	7664.5	8376.4	10095.7
75°	594.4	578.1	674.7	828.2	960.8	914.3	895.7	4654.1	5431.1	7807.6
77.5°	471.1	449.0	537.4	645.6	864.3	689.8	652.6	2004.2	2774.3	4984.4
80°	354.8	335.0	408.3	510.7	664.2	520.0	422.3	817.7	1045.7	2525.4
82.5°	252.4	235.0	285.0	374.6	446.7	466.5	259.4	458.3	515.3	973.6
85°	161.7	151.2	190.8	235.0	283.8	300.1	158.2	239.6	262.9	401.3
87.5°	88.4	72.1	102.4	109.3	131.4	119.8	75.6	87.2	94.2	145.4
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°
2470.7	0°	2470.7	2470.7	2470.7	2470.7	2470.7	2470.7	2470.7	2470.7	2470.7	2470.7
2475.3	2.5°	2480.0	2483.5	2495.1	2498.6	2506.8	2517.2	2524.2	2531.2	2531.2	2538.2
2512.6	5°	2513.7	2521.9	2546.3	2559.1	2580.0	2601.0	2613.8	2628.9	2638.2	2642.9
2571.9	7.5°	2578.9	2591.7	2626.6	2648.7	2684.7	2713.8	2733.6	2754.5	2759.2	2772.0
2654.5	10°	2667.3	2682.4	2722.0	2763.8	2806.9	2842.9	2861.5	2876.7	2882.5	2884.8
2760.3	12.5°	2768.5	2790.6	2841.8	2892.9	2938.3	2969.7	2974.4	2970.9	2954.6	2940.6
2890.6	15°	2892.9	2912.7	2969.7	3025.6	3069.8	3075.6	3046.5	3027.9	3008.1	3004.6
3036.0	17.5°	3041.8	3052.3	3104.7	3159.3	3162.8	3143.0	3100.0	3082.6	3063.9	3051.1
3225.6	20°	3215.2	3211.7	3248.9	3272.2	3247.7	3187.2	3122.1	3093.0	3074.4	3059.3
3458.3	22.5°	3422.2	3395.5	3390.8	3385.0	3319.9	3193.1	3104.7	3067.4	3038.4	3017.4
3782.8	25°	3723.5	3621.1	3550.2	3510.6	3364.1	3161.7	3048.8	2966.2	2911.6	2875.5
4179.5	27.5°	4100.4	3928.2	3749.1	3652.5	3364.1	3097.7	2913.9	2780.1	2690.5	2653.3
4563.3	30°	4459.8	4279.5	4015.5	3823.5	3355.9	2993.0	2696.4	2510.2	2405.6	2368.3
4891.4	32.5°	4766.9	4570.3	4298.1	4010.8	3336.1	2823.2	2426.5	2220.6	2119.4	2075.2
5215.9	35°	5051.9	4842.5	4582.0	4216.7	3283.8	2574.2	2129.9	1972.8	1860.0	1789.0
5546.3	37.5°	5343.9	5094.9	4850.7	4402.8	3189.6	2283.4	1901.9	1768.1	1635.5	1540.1
5897.6	40°	5661.4	5363.6	5138.0	4513.3	3034.9	2006.6	1725.1	1602.9	1462.2	1361.0
6302.4	42.5°	6032.5	5685.9	5457.9	4570.3	2823.2	1810.0	1609.9	1490.1	1357.5	1274.9
6736.3	45°	6419.9	6040.6	5749.8	4569.2	2587.0	1718.1	1572.7	1454.0	1307.5	1221.4
7181.8	47.5°	6825.8	6411.7	6002.3	4494.7	2382.3	1730.9	1551.7	1376.1	1214.4	1130.7
7631.9	50°	7233.0	6817.7	6246.5	4355.1	2295.0	1703.0	1473.8	1266.8	1076.0	1000.4
8054.2	52.5°	7636.6	7249.2	6457.1	4156.2	2206.6	1599.4	1373.8	1124.8	1019.0	966.6
8490.4	55°	8042.6	7676.1	6686.2	3866.6	1985.6	1478.5	1206.3	1071.3	973.6	925.9
8917.3	57.5°	8449.7	8169.4	6903.8	3576.9	1707.6	1329.6	1114.4	1006.2	928.3	887.5
9274.4	60°	8873.1	8733.5	7128.3	3310.5	1433.1	1138.8	1046.9	953.8	874.7	829.4
9617.6	62.5°	9309.3	9354.7	7303.9	2967.4	1180.7	1022.5	986.4	891.0	814.3	771.2
9901.4	65°	9749.0	9953.7	7419.1	2491.6	957.3	912.0	921.3	822.4	744.5	707.2
10109.6	67.5°	10080.5	10385.3	7386.5	1885.6	785.2	807.3	839.9	750.3	677.0	647.9
10075.9	70°	10117.8	10334.1	7065.4	1291.2	657.2	704.9	749.1	679.3	603.7	582.8
9601.3	72.5°	9622.2	9636.2	6170.9	843.3	556.0	618.8	653.7	607.2	533.9	513.0
8399.7	75°	8322.9	7969.3	4530.8	556.0	465.3	531.6	564.2	531.6	460.6	465.3
6284.9	77.5°	6305.9	5644.0	2751.0	395.5	388.5	446.7	490.9	467.6	407.1	457.1
3160.5	80°	3248.9	3053.5	1227.2	295.5	307.1	357.1	403.6	373.4	322.2	307.1
706.1	82.5°	744.5	865.4	483.9	211.7	222.2	257.1	308.3	280.3	231.5	195.4
294.3	85°	260.6	285.0	214.0	132.6	130.3	160.5	209.4	187.3	157.0	125.6
124.5	87.5°	82.6	108.2	80.3	53.5	55.8	72.1	96.5	88.4	73.3	47.7
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

180°
2470.7
2538.2
2645.2
2767.3
2879.0
2940.6
3004.6
3052.3
3060.5
3024.4
2889.5
2671.9
2390.4
2097.3
1812.3
1565.7
1380.8
1291.2
1235.3
1142.3
1005.0
966.6
921.3
880.6
825.9
770.1
706.1
649.1
583.9
511.8
449.0
402.5
280.3
193.1
132.6
50.0
0.0

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