

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: P940007

Luminaire Tested: **GALN-SB2D-840-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-840-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19479 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

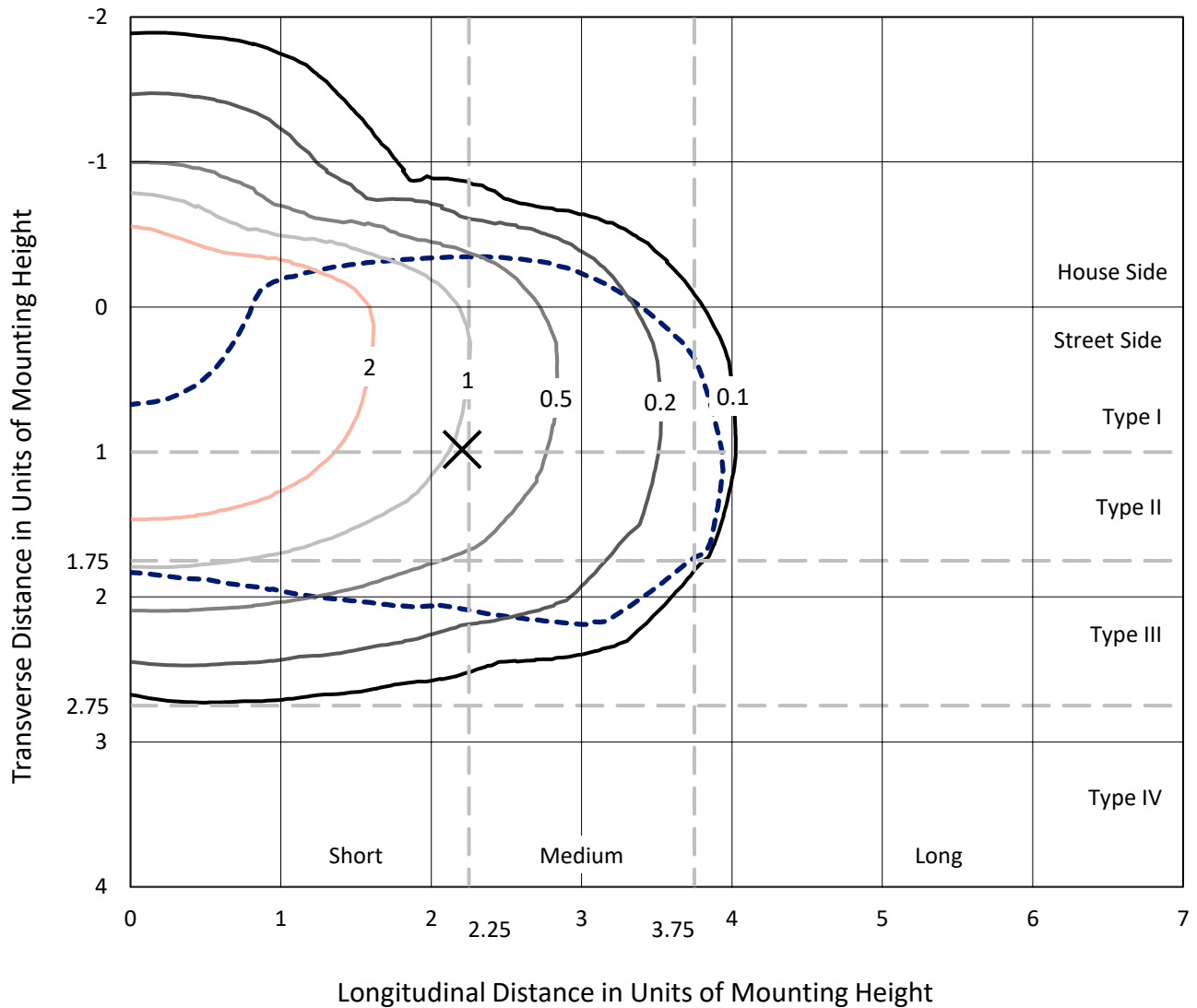
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

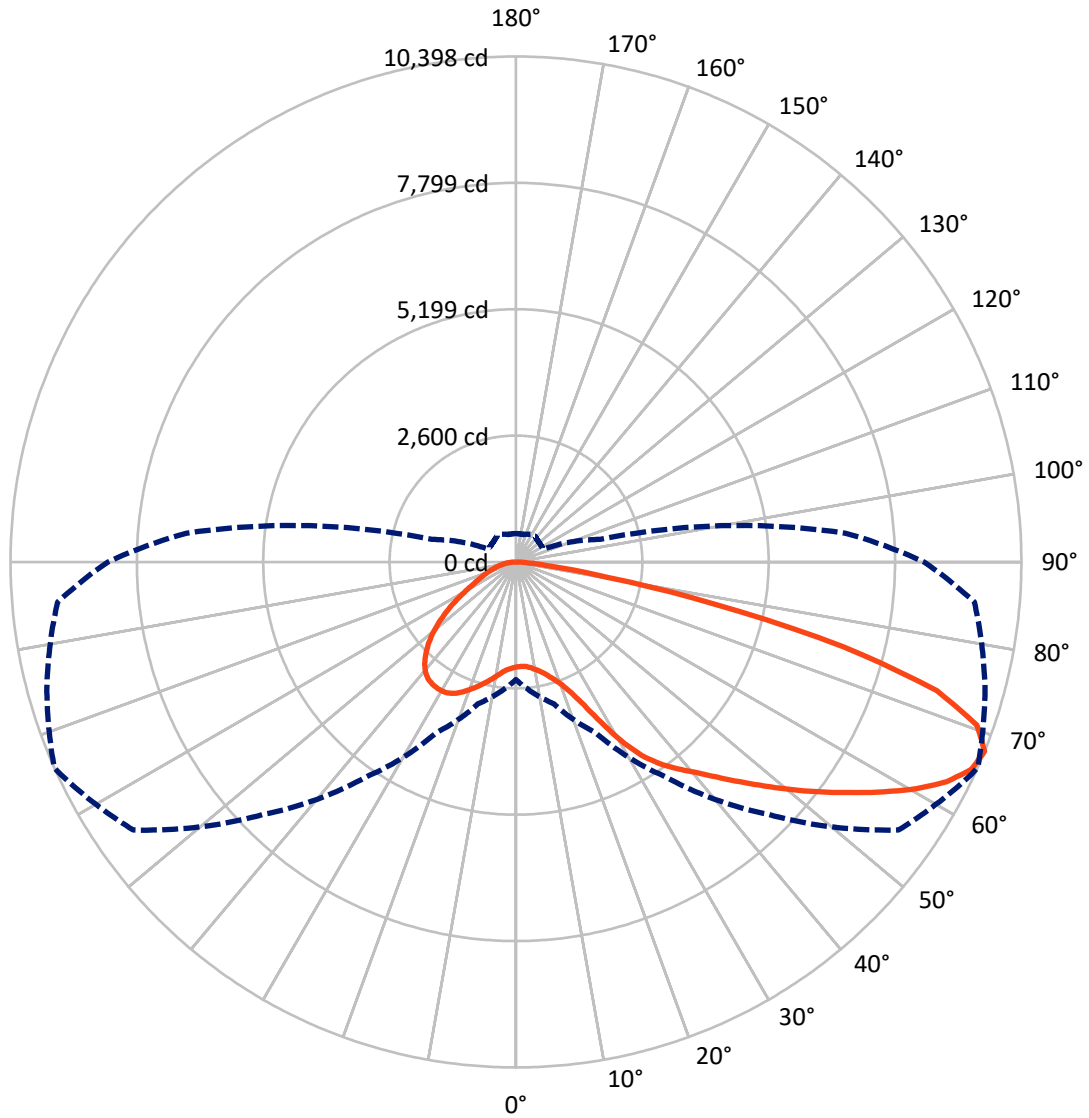
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4843.4	0.0	4843.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	14635.6	0.0	14635.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	19479.0	0.0	19479.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.2	1.1
10°-20°	707.7	3.6
20°-30°	1364.0	7.0
30°-40°	2391.7	12.3
40°-50°	3555.6	18.3
50°-60°	4507.1	23.1
60°-70°	4410.1	22.6
70°-80°	2103.7	10.8
80°-90°	224.8	1.2
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°	19479.0	100.0
0°-180°	19479.0	100.0

Coefficient of Utilization



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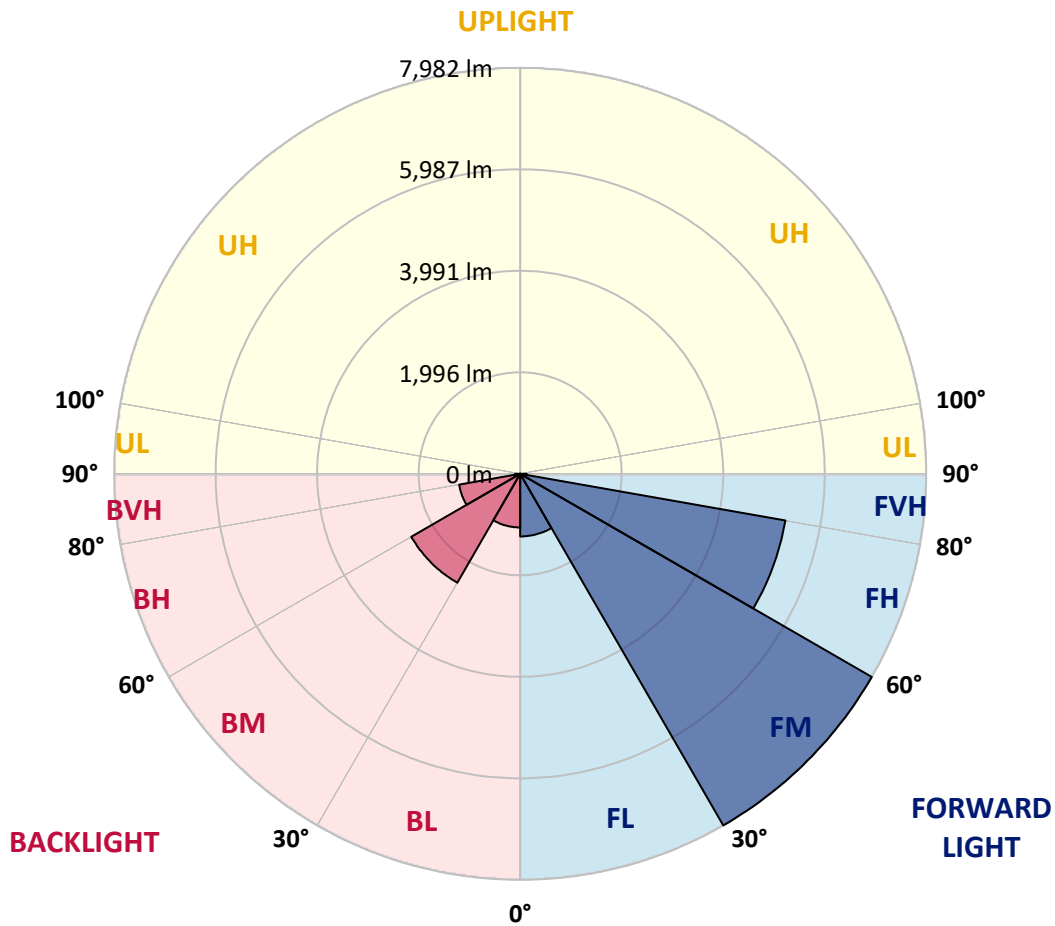
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1230.9	6.3			
FM (30°-60°)	7982.3	41.0			
FH (60°-80°)	5294.9	27.2			G3/7500
FVH (80°-90°)	127.5	0.7			G2/225
BL (0°-30°)	1055.1	5.4	B3/2500		
BM (30°-60°)	2472.1	12.7	B2/2500		
BH (60°-80°)	1218.9	6.3	B3/2500		G3/2500
BVH (80°-90°)	97.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5
2.5°	2138.0	2150.2	2147.2	2142.1	2141.0	2143.1	2146.2	2149.2	2148.2	2153.3
5°	2131.8	2144.1	2143.1	2143.1	2147.2	2155.4	2160.5	2165.6	2160.5	2166.6
7.5°	2135.9	2145.1	2149.2	2153.3	2163.5	2178.9	2191.2	2202.4	2196.3	2203.5
10°	2188.1	2195.3	2199.4	2199.4	2206.5	2223.9	2236.2	2256.7	2251.6	2262.8
12.5°	2283.3	2290.5	2290.5	2286.4	2291.5	2302.7	2306.8	2329.3	2320.1	2338.6
15°	2400.0	2414.3	2403.0	2395.9	2397.9	2409.2	2408.2	2425.5	2416.3	2431.7
17.5°	2528.9	2547.3	2528.9	2527.9	2523.8	2536.1	2537.1	2552.5	2536.1	2547.3
20°	2681.4	2707.0	2691.6	2696.8	2687.5	2692.7	2697.8	2720.3	2694.7	2702.9
22.5°	2896.3	2927.0	2910.7	2930.1	2924.0	2919.9	2918.8	2958.8	2918.8	2921.9
25°	3209.5	3246.3	3217.7	3244.3	3244.3	3257.6	3273.0	3324.1	3257.6	3238.2
27.5°	3672.1	3708.9	3652.7	3669.0	3663.9	3696.7	3680.3	3807.2	3735.6	3703.8
30°	4228.8	4294.3	4187.9	4183.8	4178.7	4230.9	4254.4	4338.4	4265.7	4234.0
32.5°	4830.6	4899.2	4772.3	4735.4	4716.0	4747.7	4728.3	4795.8	4745.7	4696.6
35°	5467.2	5534.8	5414.0	5342.3	5264.6	5198.0	5128.4	5145.8	5098.8	5024.1
37.5°	6069.0	6192.8	6064.9	5988.1	5844.9	5714.9	5520.4	5439.6	5395.6	5327.0
40°	6682.0	6752.6	6655.4	6589.9	6434.4	6230.7	5919.6	5748.7	5689.3	5622.8
42.5°	7133.4	7200.9	7148.7	7103.7	6981.9	6745.5	6343.3	6129.4	6043.4	5968.7
45°	7491.6	7541.7	7509.0	7525.3	7473.1	7243.9	6782.3	6537.7	6448.7	6357.6
47.5°	7635.9	7689.1	7741.3	7838.5	7927.6	7758.7	7254.1	6979.9	6885.7	6792.6
50°	7619.5	7673.7	7825.2	8031.9	8308.3	8252.0	7751.5	7450.6	7363.6	7257.2
52.5°	7488.5	7549.9	7744.4	8088.2	8528.3	8621.4	8258.1	7936.8	7854.9	7728.0
55°	7144.6	7181.5	7473.1	7960.3	8580.5	8879.4	8754.5	8454.6	8372.7	8195.7
57.5°	6507.0	6560.2	6985.0	7615.4	8449.5	9054.4	9190.5	8999.1	8920.3	8665.5
60°	5675.0	5759.9	6246.0	7036.1	8115.9	9053.3	9586.5	9534.4	9468.9	9128.0
62.5°	4733.4	4831.7	5299.4	6217.4	7532.5	8796.5	9834.2	9982.6	9948.8	9554.8
65°	3635.3	3702.8	4168.5	5158.1	6624.7	8244.8	9862.9	10288.6	10294.8	9879.3
67.5°	2420.4	2614.9	3019.1	3870.6	5408.9	7343.2	9611.1	10338.8	10398.1	9990.8
70°	1181.0	1436.9	1833.0	2515.6	3870.6	5960.5	8953.0	9927.4	10059.4	9665.4
72.5°	490.2	573.1	789.1	1241.4	2221.9	4022.1	7630.8	8811.8	9056.4	8564.1
75°	330.6	358.2	451.3	636.6	1012.2	1983.4	5503.0	6570.5	6964.5	6468.1
77.5°	254.8	272.2	328.5	445.2	601.8	750.2	2945.5	3959.7	4163.3	3854.3
80°	200.6	213.9	245.6	324.4	426.8	401.2	1004.0	1794.1	1911.8	1603.7
82.5°	174.0	179.1	176.0	220.0	283.5	234.4	329.5	662.2	730.7	530.1
85°	125.9	140.2	146.4	136.1	150.4	118.7	135.1	234.4	257.9	230.3
87.5°	51.2	75.7	93.1	88.0	55.3	33.8	42.0	68.6	78.8	86.0
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°
2160.5	0°	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5
2161.5	2.5°	2162.5	2169.7	2174.8	2180.9	2185.0	2191.2	2203.5	2210.6	2211.7	2216.8
2177.9	5°	2182.0	2192.2	2203.5	2219.8	2238.3	2253.6	2277.2	2293.5	2299.7	2304.8
2217.8	7.5°	2223.9	2238.3	2258.7	2287.4	2314.0	2334.5	2363.1	2382.6	2402.0	2409.2
2281.2	10°	2286.4	2306.8	2336.5	2375.4	2404.1	2430.7	2460.3	2476.7	2496.2	2504.4
2357.0	12.5°	2364.1	2385.6	2424.5	2478.8	2505.4	2523.8	2534.0	2529.9	2534.0	2541.2
2448.1	15°	2453.2	2476.7	2520.7	2579.1	2597.5	2581.1	2558.6	2538.1	2535.1	2537.1
2558.6	17.5°	2558.6	2576.0	2627.2	2676.3	2663.0	2595.4	2546.3	2513.6	2497.2	2492.1
2699.8	20°	2706.0	2706.0	2747.9	2778.6	2689.6	2575.0	2498.2	2445.0	2411.2	2396.9
2892.2	22.5°	2885.1	2868.7	2895.3	2873.8	2684.5	2517.7	2411.2	2319.1	2267.9	2247.5
3161.4	25°	3112.3	3092.8	3085.7	2952.6	2647.6	2426.6	2253.6	2142.1	2097.0	2085.8
3549.3	27.5°	3455.1	3406.0	3312.9	2995.6	2580.1	2283.3	2069.4	1966.0	1940.4	1941.5
4047.7	30°	3911.6	3813.3	3585.1	3002.8	2469.6	2080.7	1881.1	1807.4	1795.1	1800.2
4466.3	32.5°	4334.3	4241.1	3863.5	2970.0	2299.7	1882.1	1712.2	1663.1	1644.7	1650.8
4785.6	35°	4665.9	4640.3	4121.4	2924.0	2090.9	1695.8	1560.7	1518.8	1483.0	1474.8
5086.5	37.5°	4979.0	4968.8	4314.8	2859.5	1884.2	1563.8	1439.0	1383.7	1331.5	1302.8
5419.1	40°	5322.9	5312.7	4441.7	2760.2	1701.0	1449.2	1329.4	1256.8	1192.3	1140.1
5795.7	42.5°	5709.8	5649.4	4502.1	2618.0	1545.4	1352.0	1240.4	1142.2	1057.2	1009.1
6221.5	45°	6132.4	5996.3	4501.1	2436.8	1414.4	1262.9	1145.2	1006.0	927.2	882.2
6658.5	47.5°	6580.7	6327.9	4445.8	2236.2	1287.5	1164.7	997.9	891.4	839.2	811.6
7133.4	50°	7043.3	6638.0	4351.7	2005.9	1157.5	1053.1	905.7	833.1	793.2	767.6
7604.1	52.5°	7478.3	6919.5	4238.1	1745.0	1025.5	944.6	864.8	808.5	766.6	737.9
8060.6	55°	7882.5	7162.0	4077.4	1477.8	918.0	872.0	845.4	798.3	750.2	716.4
8524.2	57.5°	8241.7	7319.6	3800.0	1227.1	841.3	821.8	824.9	780.9	725.6	697.0
8980.7	60°	8540.6	7435.3	3389.6	994.8	778.8	772.7	793.2	748.1	683.7	650.9
9366.5	62.5°	8719.7	7433.2	2886.1	814.7	725.6	727.7	751.2	707.2	641.7	611.0
9568.1	65°	8704.3	7251.1	2333.4	697.0	674.4	676.5	707.2	662.2	606.9	588.5
9466.8	67.5°	8396.3	6806.9	1790.0	620.2	618.2	627.4	663.2	631.5	585.4	583.4
8863.0	70°	7562.2	5884.8	1289.5	558.8	559.8	573.1	620.2	612.0	574.1	578.2
7451.7	72.5°	6063.9	4486.8	865.8	494.3	495.3	516.8	579.3	596.7	562.9	617.1
5287.1	75°	4038.5	2798.1	556.8	425.8	426.8	454.4	543.4	567.0	532.2	615.1
2751.0	77.5°	1940.4	1257.8	403.2	358.2	358.2	383.8	469.8	507.6	453.4	477.9
884.3	80°	670.4	472.8	317.3	288.6	282.5	299.9	396.1	440.1	391.0	360.3
288.6	82.5°	264.0	245.6	254.8	224.1	203.7	214.9	308.1	363.3	287.6	260.0
162.7	85°	151.5	159.7	180.1	148.4	117.7	132.0	226.2	261.0	217.0	191.4
53.2	87.5°	40.9	56.3	82.9	76.8	53.2	56.3	107.5	144.3	124.9	96.2
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>
2160.5
2215.7
2303.8
2410.2
2508.4
2543.2
2544.3
2499.2
2393.8
2244.4
2087.8
1944.5
1817.6
1659.0
1480.9
1303.9
1145.2
1012.2
880.2
805.4
758.4
725.6
703.1
678.5
636.6
601.8
587.5
586.4
577.2
625.3
620.2
438.0
337.7
258.9
195.5
99.3
0.0

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