

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: P940747

Luminaire Tested: **GALN-SB3D-950-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940747
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-SB3D-950-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21254 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

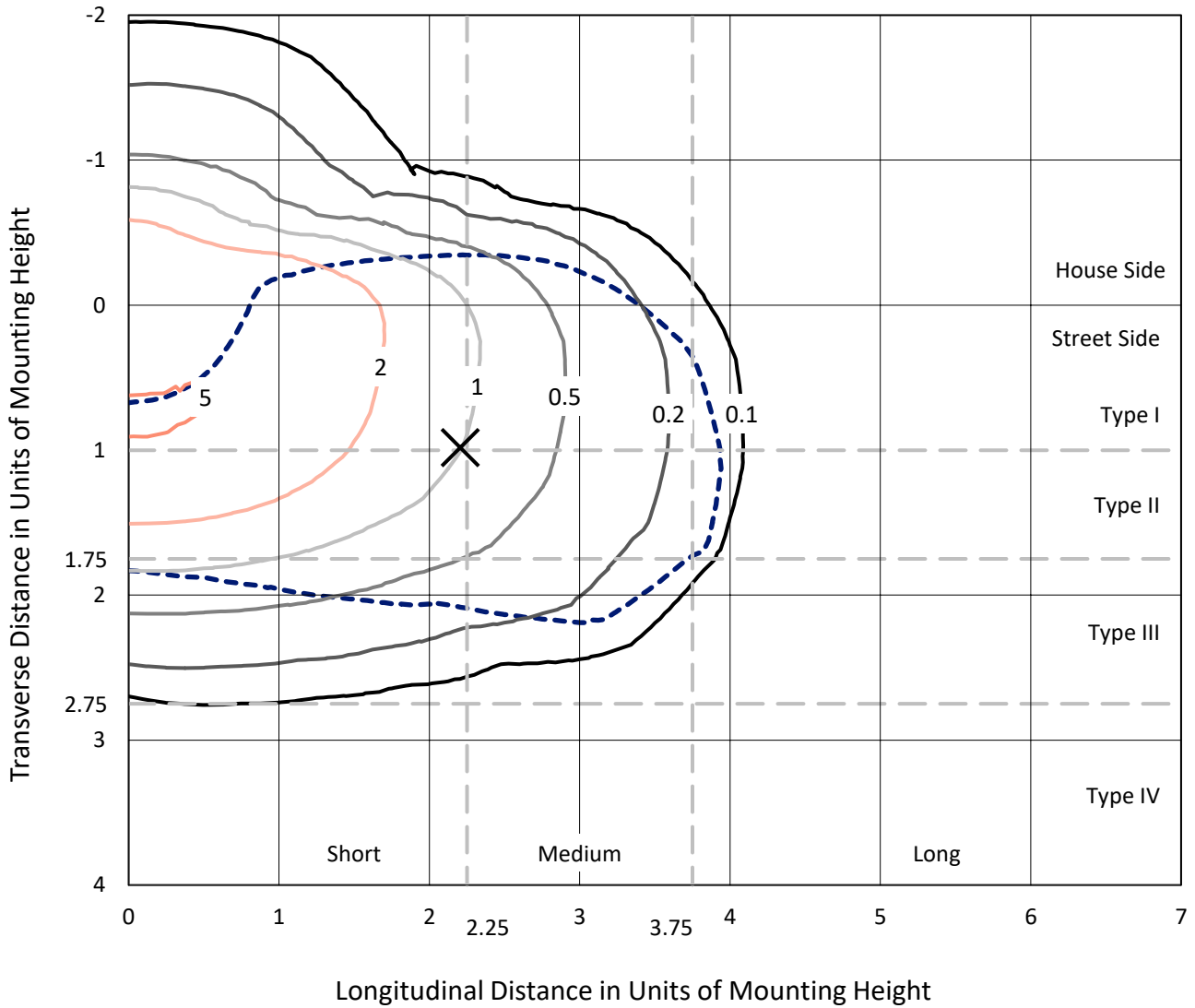
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

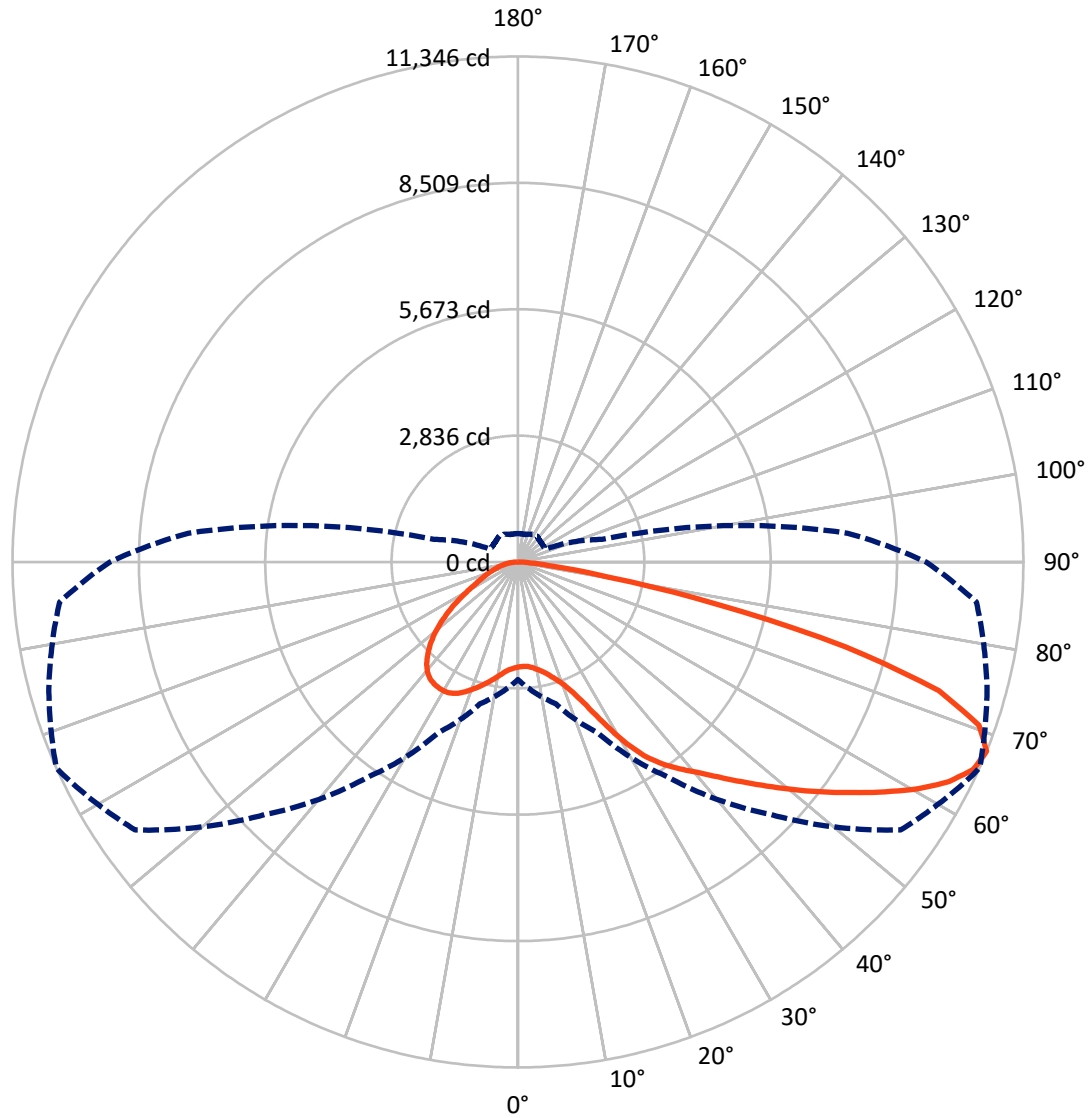
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	5284.7	0.0	5284.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	15969.3	0.0	15969.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	21254.0	0.0	21254.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.7	1.1
10°-20°	772.2	3.6
20°-30°	1488.3	7.0
30°-40°	2609.6	12.3
40°-50°	3879.6	18.3
50°-60°	4917.8	23.1
60°-70°	4812.0	22.6
70°-80°	2295.4	10.8
80°-90°	245.3	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°	21254.0	100.0
0°-180°	21254.0	100.0

Coefficient of Utilization



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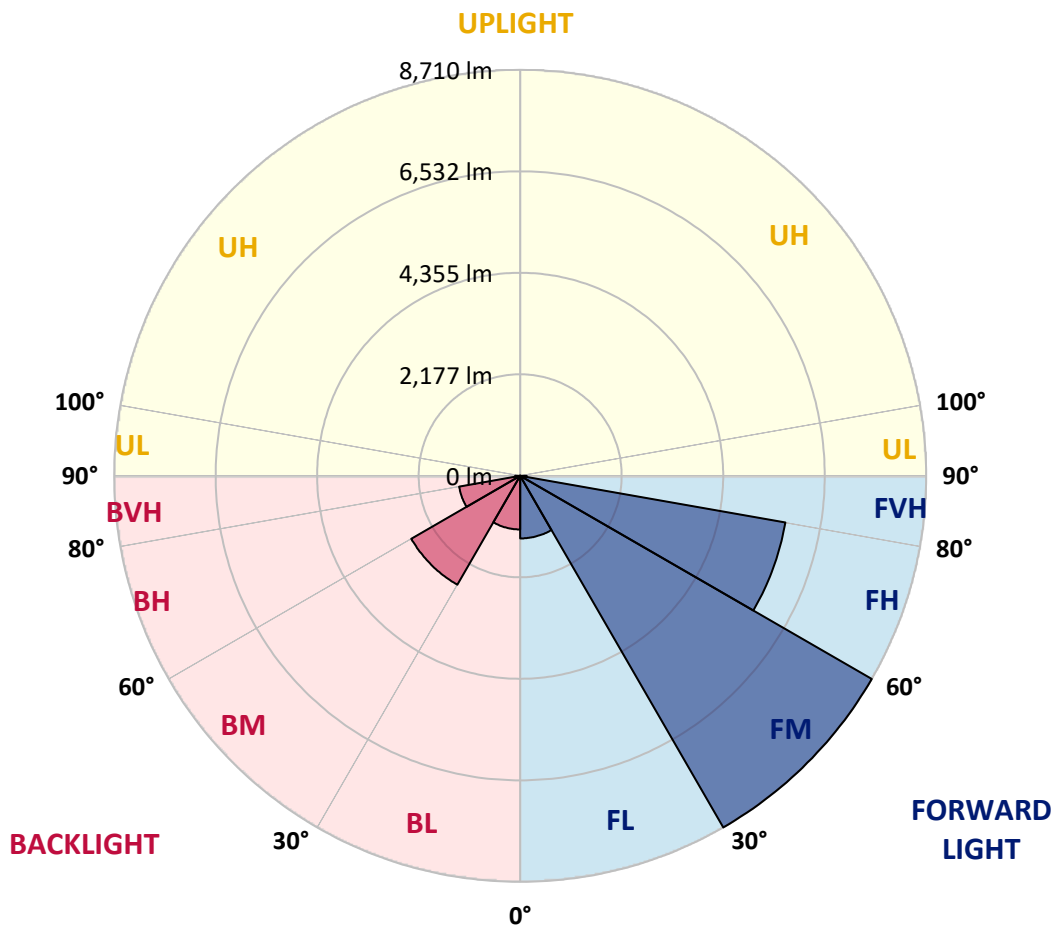
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1343.0	6.3			
FM (30°-60°)	8709.7	41.0			
FH (60°-80°)	5777.4	27.2			G3/7500
FVH (80°-90°)	139.1	0.7			G2/225
BL (0°-30°)	1151.2	5.4	B3/2500		
BM (30°-60°)	2697.4	12.7	B3/5000		
BH (60°-80°)	1329.9	6.3	B3/2500		G3/2500
BVH (80°-90°)	106.2	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2357.3	2357.3	2357.3	2357.3	2357.3	2357.3	2357.3	2357.3	2357.3	2357.3
2.5°	2332.8	2346.2	2342.8	2337.2	2336.1	2338.4	2341.7	2345.1	2343.9	2349.5
5°	2326.1	2339.5	2338.4	2338.4	2342.8	2351.8	2357.3	2362.9	2357.3	2364.0
7.5°	2330.5	2340.6	2345.1	2349.5	2360.7	2377.5	2390.9	2403.1	2396.4	2404.3
10°	2387.5	2395.3	2399.8	2399.8	2407.6	2426.6	2440.0	2462.3	2456.7	2469.0
12.5°	2491.4	2499.2	2499.2	2494.7	2500.3	2512.6	2517.0	2541.6	2531.6	2551.7
15°	2618.7	2634.3	2622.0	2614.2	2616.4	2628.7	2627.6	2646.6	2636.5	2653.3
17.5°	2759.4	2779.5	2759.4	2758.2	2753.8	2767.2	2768.3	2785.0	2767.2	2779.5
20°	2925.7	2953.7	2936.9	2942.5	2932.4	2938.0	2943.6	2968.2	2940.3	2949.2
22.5°	3160.3	3193.8	3175.9	3197.1	3190.4	3185.9	3184.8	3228.4	3184.8	3188.2
25°	3502.0	3542.2	3510.9	3539.9	3539.9	3554.4	3571.2	3627.0	3554.4	3533.2
27.5°	4006.7	4046.9	3985.5	4003.4	3997.8	4033.5	4015.6	4154.1	4075.9	4041.3
30°	4614.2	4685.7	4569.5	4565.1	4559.5	4616.4	4642.1	4733.7	4654.4	4619.8
32.5°	5270.8	5345.6	5207.2	5167.0	5145.7	5180.4	5159.1	5232.8	5178.1	5124.5
35°	5965.4	6039.1	5907.3	5829.2	5744.3	5671.7	5595.8	5614.8	5563.4	5481.9
37.5°	6622.0	6757.1	6617.6	6533.8	6377.5	6235.6	6023.5	5935.2	5887.2	5812.4
40°	7290.9	7368.0	7261.9	7190.4	7020.7	6798.5	6459.0	6272.5	6207.7	6135.1
42.5°	7783.4	7857.1	7800.1	7751.0	7618.1	7360.2	6921.3	6687.9	6594.1	6512.6
45°	8174.2	8228.9	8193.2	8211.1	8154.1	7904.0	7400.4	7133.5	7036.3	6936.9
47.5°	8331.7	8389.8	8446.7	8552.8	8649.9	8465.7	7915.2	7615.9	7513.1	7411.5
50°	8313.8	8373.0	8538.3	8763.8	9065.4	9003.9	8457.9	8129.6	8034.6	7918.5
52.5°	8170.9	8237.9	8450.1	8825.3	9305.4	9407.1	9010.6	8660.0	8570.7	8432.2
55°	7795.7	7835.9	8154.1	8685.7	9362.4	9688.5	9552.2	9225.0	9135.7	8942.5
57.5°	7100.0	7158.0	7621.5	8309.3	9219.5	9879.4	10027.9	9819.1	9733.1	9455.1
60°	6192.1	6284.8	6815.2	7677.3	8855.4	9878.3	10460.1	10403.2	10331.7	9959.8
62.5°	5164.7	5271.9	5782.3	6783.9	8218.9	9598.0	10730.4	10892.3	10855.4	10425.5
65°	3966.5	4040.2	4548.3	5628.2	7228.4	8996.1	10761.6	11226.2	11232.9	10779.5
67.5°	2641.0	2853.2	3294.3	4223.4	5901.7	8012.3	10486.9	11280.9	11345.7	10901.2
70°	1288.7	1567.8	2000.0	2744.8	4223.4	6503.6	9768.9	10832.0	10976.0	10546.1
72.5°	534.9	625.4	861.0	1354.6	2424.4	4388.6	8326.1	9614.8	9881.7	9344.5
75°	360.7	390.8	492.5	694.6	1104.4	2164.2	6004.5	7169.2	7599.1	7057.5
77.5°	278.1	297.0	358.5	485.8	656.6	818.5	3213.9	4320.5	4542.7	4205.5
80°	218.9	233.4	268.0	354.0	465.7	437.7	1095.5	1957.6	2086.0	1749.9
82.5°	189.8	195.4	192.1	240.1	309.3	255.7	359.6	722.5	797.3	578.4
85°	137.4	153.0	159.7	148.5	164.2	129.5	147.4	255.7	281.4	251.3
87.5°	55.8	82.6	101.6	96.0	60.3	36.9	45.8	74.8	86.0	93.8
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°
2357.3	0°	2357.3	2357.3	2357.3	2357.3	2357.3	2357.3	2357.3	2357.3	2357.3	2357.3
2358.5	2.5°	2359.6	2367.4	2373.0	2379.7	2384.2	2390.9	2404.3	2412.1	2413.2	2418.8
2376.3	5°	2380.8	2392.0	2404.3	2422.1	2442.2	2459.0	2484.7	2502.5	2509.2	2514.8
2419.9	7.5°	2426.6	2442.2	2464.6	2495.8	2524.9	2547.2	2578.5	2599.7	2620.9	2628.7
2489.1	10°	2494.7	2517.0	2549.4	2591.9	2623.1	2652.2	2684.5	2702.4	2723.6	2732.6
2571.8	12.5°	2579.6	2603.0	2645.5	2704.6	2733.7	2753.8	2764.9	2760.5	2764.9	2772.8
2671.1	15°	2676.7	2702.4	2750.4	2814.1	2834.2	2816.3	2791.7	2769.4	2766.1	2768.3
2791.7	17.5°	2791.7	2810.7	2866.6	2920.2	2905.6	2831.9	2778.3	2742.6	2724.7	2719.2
2945.8	20°	2952.5	2952.5	2998.3	3031.8	2934.7	2809.6	2725.9	2667.8	2630.9	2615.3
3155.8	22.5°	3148.0	3130.1	3159.1	3135.7	2929.1	2747.1	2630.9	2530.4	2474.6	2452.3
3449.5	25°	3395.9	3374.7	3366.8	3221.7	2888.9	2647.7	2459.0	2337.2	2288.1	2275.8
3872.7	27.5°	3770.0	3716.4	3614.8	3268.6	2815.2	2491.4	2258.0	2145.2	2117.3	2118.4
4416.5	30°	4268.0	4160.8	3911.8	3276.4	2694.6	2270.2	2052.5	1972.1	1958.7	1964.3
4873.3	32.5°	4729.2	4627.6	4215.5	3240.7	2509.2	2053.6	1868.2	1814.6	1794.5	1801.2
5221.7	35°	5091.0	5063.1	4496.9	3190.4	2281.4	1850.4	1703.0	1657.2	1618.1	1609.2
5550.0	37.5°	5432.7	5421.6	4708.0	3120.1	2055.8	1706.3	1570.1	1509.8	1452.8	1421.6
5912.9	40°	5807.9	5796.8	4846.5	3011.7	1856.0	1581.2	1450.6	1371.3	1301.0	1244.0
6323.9	42.5°	6230.1	6164.2	4912.4	2856.5	1686.2	1475.2	1353.4	1246.2	1153.5	1101.1
6788.4	45°	6691.3	6542.7	4911.2	2658.9	1543.3	1378.0	1249.6	1097.7	1011.7	962.6
7265.2	47.5°	7180.4	6904.5	4850.9	2440.0	1404.8	1270.8	1088.8	972.6	915.7	885.5
7783.4	50°	7685.1	7242.9	4748.2	2188.7	1263.0	1149.1	988.3	909.0	865.4	837.5
8297.1	52.5°	8159.7	7550.0	4624.2	1904.0	1118.9	1030.7	943.6	882.2	836.4	805.1
8795.1	55°	8600.8	7814.7	4448.9	1612.5	1001.7	951.4	922.4	871.0	818.5	781.7
9301.0	57.5°	8992.8	7986.6	4146.3	1338.9	917.9	896.7	900.1	852.0	791.7	760.5
9799.0	60°	9318.8	8112.8	3698.5	1085.4	849.8	843.1	865.4	816.3	746.0	710.2
10220.0	62.5°	9514.3	8110.6	3149.1	888.9	791.7	794.0	819.7	771.6	700.2	666.7
10440.0	65°	9497.5	7911.8	2546.1	760.5	735.9	738.1	771.6	722.5	662.2	642.1
10329.5	67.5°	9161.4	7427.2	1953.1	676.7	674.5	684.5	723.6	689.0	638.8	636.5
9670.6	70°	8251.3	6421.0	1407.0	609.7	610.8	625.4	676.7	667.8	626.5	630.9
8130.7	72.5°	6616.4	4895.6	944.7	539.4	540.5	563.9	632.1	651.0	614.2	673.4
5768.9	75°	4406.5	3053.1	607.5	464.5	465.7	495.8	593.0	618.7	580.7	671.1
3001.7	77.5°	2117.3	1372.4	440.0	390.8	390.8	418.8	512.6	553.9	494.7	521.5
964.8	80°	731.4	515.9	346.2	314.9	308.2	327.2	432.2	480.2	426.6	393.1
314.9	82.5°	288.1	268.0	278.1	244.6	222.2	234.5	336.1	396.4	313.8	283.6
177.6	85°	165.3	174.2	196.5	161.9	128.4	144.1	246.8	284.8	236.7	208.8
58.1	87.5°	44.7	61.4	90.5	83.8	58.1	61.4	117.3	157.5	136.2	105.0
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>
2357.3
2417.7
2513.7
2629.8
2737.0
2775.0
2776.1
2727.0
2612.0
2448.9
2278.1
2121.7
1983.3
1810.2
1615.9
1422.7
1249.6
1104.4
960.4
878.8
827.5
791.7
767.2
740.4
694.6
656.6
641.0
639.9
629.8
682.3
676.7
477.9
368.5
282.5
213.3
108.3
0.0

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