

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: P942199

Luminaire Tested: **GALN-SB6A-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942199
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6A-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24158 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

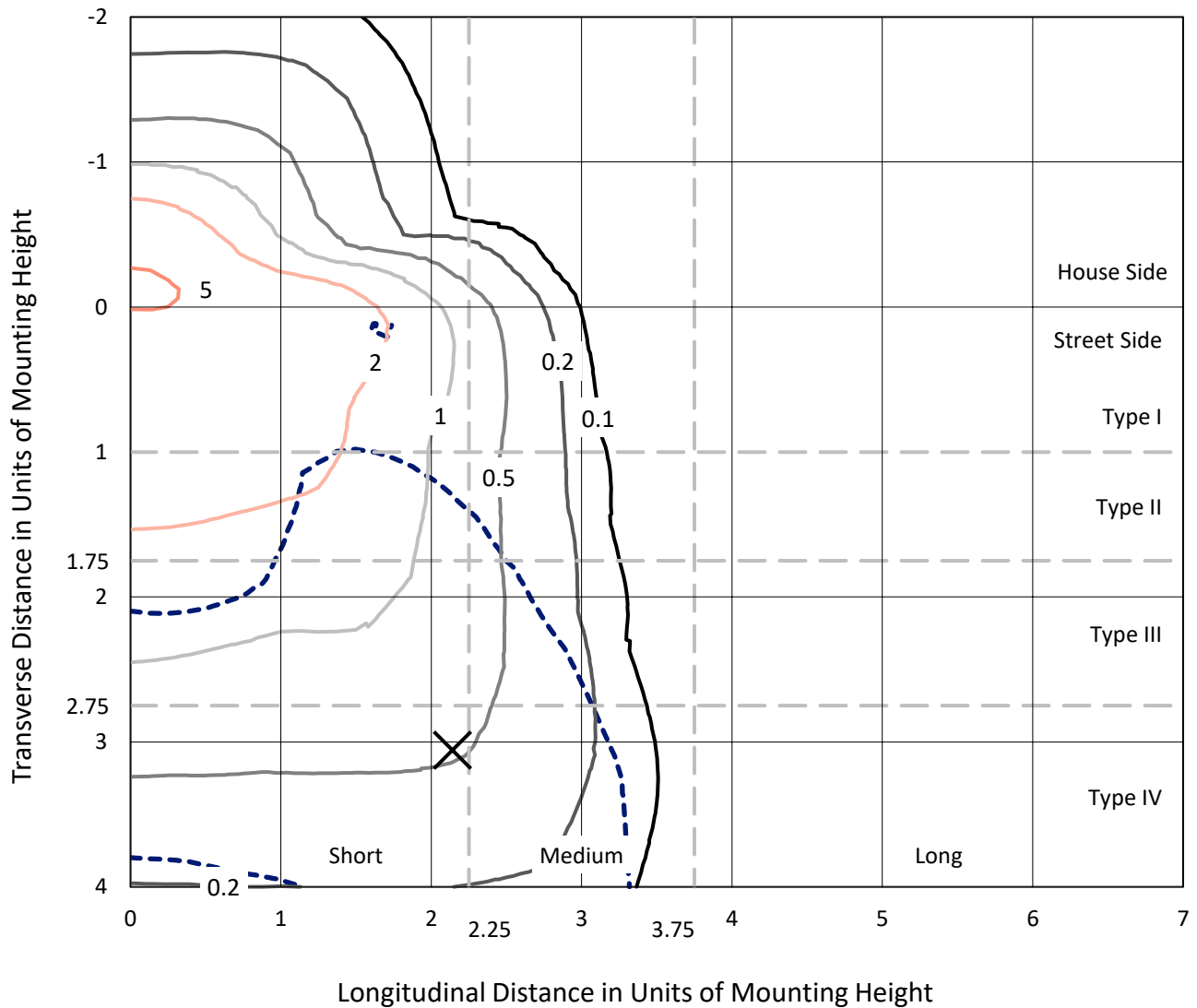
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

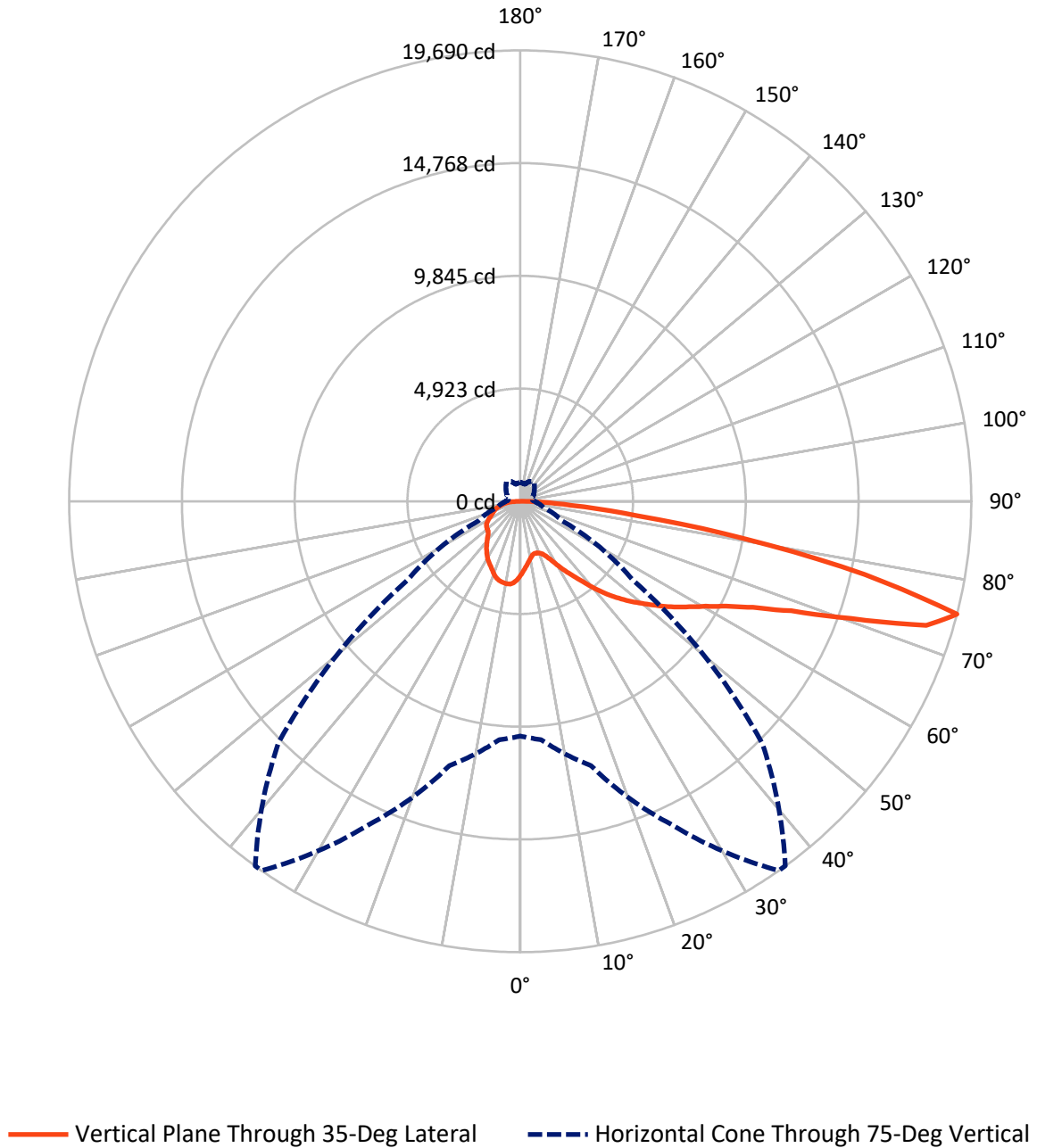
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5749.0	0.0	5749.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	18409.0	0.0	18409.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	24158.0	0.0	24158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.8	1.3
10°-20°	879.2	3.6
20°-30°	1476.3	6.1
30°-40°	2294.4	9.5
40°-50°	3405.6	14.1
50°-60°	4701.6	19.5
60°-70°	5704.1	23.6
70°-80°	4714.0	19.5
80°-90°	678.0	2.8
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°	24158.0	100.0
0°-180°	24158.0	100.0

Coefficient of Utilization



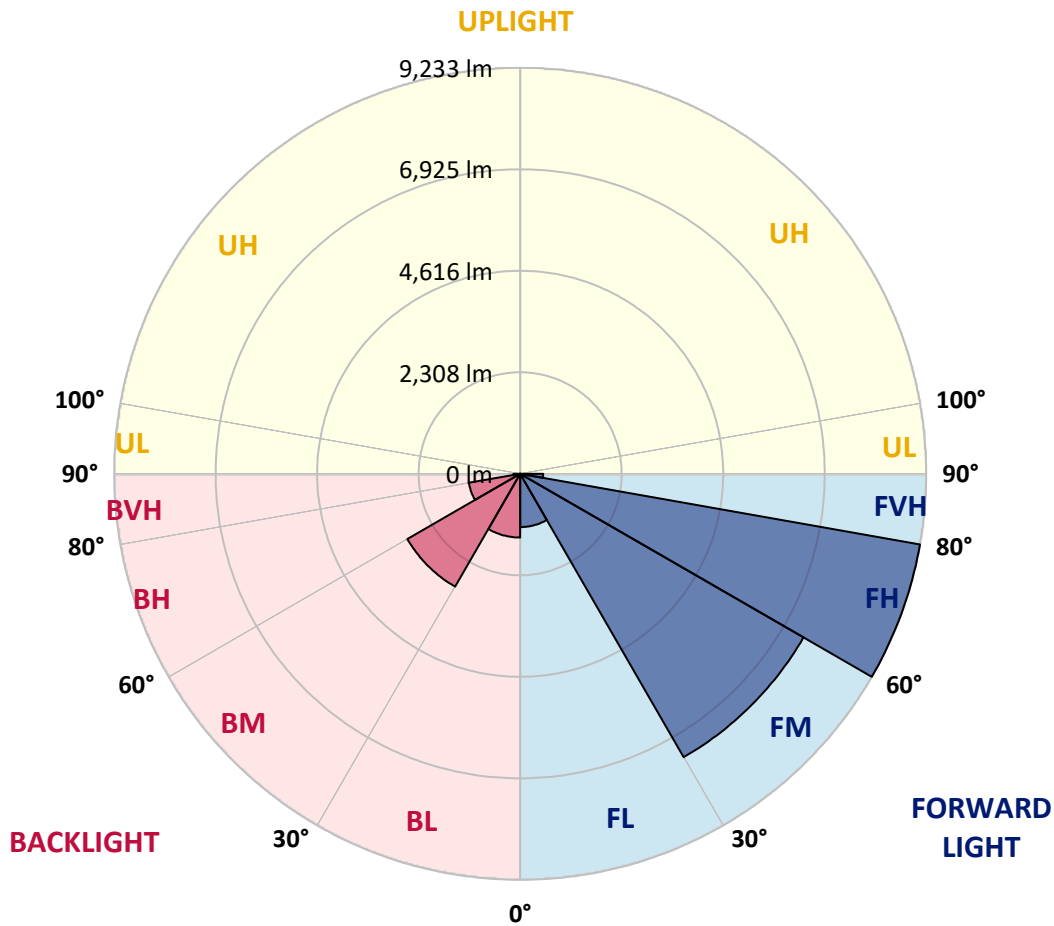
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1211.5	5.0			
FM (30°-60°)	7439.4	30.8			
FH (60°-80°)	9232.8	38.2			G4/12000
FVH (80°-90°)	525.3	2.2			G4/750
BL (0°-30°)	1448.8	6.0	B3/2500		
BM (30°-60°)	2962.2	12.3	B3/5000		
BH (60°-80°)	1185.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	152.7	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	3219.2	3219.2	3219.2	3219.2	3219.2	3219.2	3219.2	3219.2	3219.2	3219.2
2.5°	2968.5	2986.8	2994.6	2990.7	3010.3	3007.6	3035.1	3069.0	3116.0	3161.8
5°	2739.9	2759.5	2776.5	2792.2	2830.0	2841.8	2884.9	2950.2	3036.4	3123.9
7.5°	2527.1	2544.0	2570.1	2598.9	2662.9	2674.6	2746.5	2848.3	2968.5	3096.5
10°	2353.4	2370.3	2397.8	2430.4	2510.1	2524.4	2615.9	2751.7	2908.4	3070.3
12.5°	2278.9	2284.1	2299.8	2332.5	2401.7	2410.8	2511.4	2666.8	2849.6	3050.7
15°	2275.0	2285.4	2286.8	2303.7	2361.2	2365.1	2457.8	2611.9	2813.1	3046.8
17.5°	2314.2	2322.0	2310.3	2320.7	2369.0	2375.6	2448.7	2585.8	2801.3	3063.8
20°	2418.7	2425.2	2389.9	2375.6	2410.8	2416.0	2487.9	2602.8	2813.1	3099.1
22.5°	2640.7	2644.6	2558.4	2499.6	2502.2	2504.9	2567.5	2672.0	2858.8	3163.1
25°	2986.8	2984.1	2847.0	2733.4	2668.1	2653.7	2695.5	2784.3	2935.8	3247.9
27.5°	3391.6	3372.0	3234.9	3065.1	2922.8	2901.9	2892.7	2930.6	3045.5	3360.3
30°	3848.7	3830.4	3682.8	3460.8	3263.6	3229.7	3143.5	3123.9	3208.8	3513.1
32.5°	4350.2	4338.4	4162.1	3893.1	3629.3	3590.1	3445.1	3392.9	3459.5	3744.2
35°	4770.7	4760.3	4614.0	4337.1	4014.6	3966.2	3818.7	3759.9	3793.8	4040.7
37.5°	5150.7	5145.5	5020.2	4802.1	4469.0	4410.3	4244.4	4224.8	4218.3	4431.2
40°	5503.4	5490.3	5359.7	5244.8	4997.9	4944.4	4798.1	4781.2	4731.5	4911.8
42.5°	5893.8	5859.9	5670.5	5617.0	5550.4	5506.0	5418.5	5421.1	5311.4	5453.7
45°	6212.5	6192.9	5998.3	5967.0	6038.8	6020.5	6096.3	6115.9	5903.0	6021.8
47.5°	6554.7	6536.4	6371.8	6349.6	6544.2	6549.4	6817.2	6823.7	6480.2	6612.1
50°	6976.5	6950.4	6787.1	6814.6	7032.7	7052.2	7542.0	7497.6	7011.8	7211.6
52.5°	7254.7	7270.3	7235.1	7279.5	7577.2	7595.5	8255.0	8141.4	7538.1	7803.2
55°	7459.7	7491.0	7600.7	7702.6	8151.9	8170.2	8927.6	8753.9	7974.3	8351.7
57.5°	7723.5	7679.1	7884.1	8082.7	8697.8	8746.1	9581.9	9344.2	8360.8	8824.4
60°	8102.2	8070.9	8230.2	8524.1	9309.0	9386.0	10274.1	9875.7	8644.2	9199.3
62.5°	8870.2	8791.8	8816.6	9076.5	10079.5	10181.3	11055.0	10339.4	8785.3	9345.5
65°	10018.1	9883.6	9758.2	9938.4	11164.7	11265.3	11936.6	10703.7	8733.0	9062.1
67.5°	11463.8	11330.6	11176.5	11346.3	12763.2	12842.9	13024.4	10908.8	8321.6	7970.3
70°	12656.2	12606.5	12790.7	13489.4	15316.4	15319.0	14419.2	10739.0	7194.6	5650.9
72.5°	12498.1	12468.1	13438.4	15598.5	18534.3	18465.1	15739.6	9453.9	4846.5	2549.3
75°	10253.2	10447.8	11950.9	15560.6	19690.1	19681.0	14931.2	6010.1	2004.7	1056.5
77.5°	5498.1	5806.3	7758.8	11488.6	15371.3	15602.4	10497.4	2102.6	860.6	676.5
80°	1793.1	2062.1	3092.5	5849.4	9988.1	9945.0	4499.1	825.4	589.0	479.3
82.5°	761.4	792.7	1381.7	2762.1	5125.9	5046.3	1432.6	474.1	414.0	327.8
85°	297.8	333.0	609.9	1277.2	2220.1	2171.8	517.2	235.1	265.1	214.2
87.5°	97.9	118.8	218.1	437.5	690.9	666.0	126.7	81.0	114.9	97.9
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°
3219.2	0°	3219.2	3219.2	3219.2	3219.2	3219.2	3219.2	3219.2	3219.2	3219.2	3219.2
3228.4	2.5°	3246.6	3267.5	3292.4	3328.9	3360.3	3386.4	3413.8	3430.8	3437.3	3456.9
3233.6	5°	3270.1	3315.9	3377.2	3437.3	3496.1	3531.3	3562.7	3578.4	3592.7	3603.2
3247.9	7.5°	3309.3	3368.1	3464.7	3543.1	3592.7	3621.5	3642.4	3637.1	3642.4	3645.0
3263.6	10°	3343.3	3425.6	3540.5	3614.9	3652.8	3654.1	3648.9	3630.6	3621.5	3622.8
3287.1	12.5°	3383.8	3475.2	3599.3	3661.9	3672.4	3643.7	3621.5	3590.1	3578.4	3573.1
3322.4	15°	3438.6	3543.1	3663.2	3686.8	3660.6	3624.1	3586.2	3535.3	3509.1	3488.2
3382.5	17.5°	3505.2	3620.1	3712.9	3695.9	3639.7	3579.7	3518.3	3441.2	3387.7	3365.5
3464.7	20°	3597.9	3701.1	3750.7	3676.3	3591.4	3500.0	3395.5	3301.5	3251.9	3229.7
3569.2	22.5°	3710.3	3809.5	3787.3	3642.4	3522.2	3375.9	3245.3	3176.1	3151.3	3135.6
3703.7	25°	3844.8	3929.7	3813.4	3592.7	3408.6	3211.4	3110.8	3088.6	3076.9	3065.1
3868.3	27.5°	4019.8	4065.5	3833.0	3519.6	3231.0	3036.4	2999.8	3003.7	2999.8	2980.2
4096.8	30°	4250.9	4241.8	3851.3	3400.7	3027.2	2878.4	2881.0	2897.9	2900.6	2887.5
4415.5	32.5°	4555.2	4462.5	3860.4	3246.6	2832.6	2739.9	2742.5	2760.8	2773.9	2751.7
4832.1	35°	4923.5	4719.8	3846.1	3053.4	2682.5	2608.0	2588.4	2593.7	2597.6	2576.7
5337.5	37.5°	5353.2	5008.4	3782.1	2839.2	2558.4	2478.7	2436.9	2401.7	2380.8	2361.2
5909.5	40°	5824.6	5323.1	3664.6	2630.2	2420.0	2341.6	2278.9	2212.3	2141.8	2115.7
6515.5	42.5°	6318.3	5647.0	3522.2	2430.4	2260.6	2196.6	2130.0	2033.4	1927.6	1874.1
7145.0	45°	6830.2	5978.7	3382.5	2233.2	2097.4	2070.0	1992.9	1876.7	1761.8	1693.8
7775.7	47.5°	7331.7	6292.2	3177.4	2034.7	1944.6	1974.6	1914.6	1807.5	1679.5	1572.4
8401.3	50°	7811.0	6586.0	2841.8	1833.6	1820.5	1945.9	1888.4	1734.3	1588.1	1450.9
9015.1	52.5°	8286.4	6823.7	2412.1	1650.7	1753.9	1938.1	1854.5	1684.7	1505.8	1362.1
9592.4	55°	8689.9	6946.5	1998.1	1494.0	1657.3	1871.5	1814.0	1625.9	1389.6	1236.8
9988.1	57.5°	8919.8	6847.2	1653.4	1339.9	1524.1	1761.8	1744.8	1500.6	1251.1	1133.6
10065.1	60°	8820.5	6445.0	1371.3	1205.4	1397.4	1642.9	1624.6	1376.5	1145.3	1034.3
9652.4	62.5°	8273.3	5678.4	1147.9	1087.9	1282.5	1521.5	1504.5	1281.2	1064.4	957.3
8556.7	65°	7171.1	4619.2	974.3	989.9	1166.2	1375.2	1400.0	1201.5	1000.4	895.9
6620.0	67.5°	5469.4	3345.9	838.4	905.0	1052.6	1231.5	1303.4	1144.0	946.8	847.6
3830.4	70°	3117.4	1900.2	723.5	822.8	952.1	1098.3	1228.9	1098.3	889.4	807.1
1435.3	72.5°	1181.9	872.4	625.6	740.5	855.4	986.0	1146.6	1026.5	822.8	761.4
741.8	75°	630.8	531.5	526.3	643.8	744.4	876.3	1043.5	956.0	773.1	804.5
513.2	77.5°	429.7	376.1	440.1	551.1	622.9	754.9	933.8	848.9	670.0	667.4
355.2	80°	297.8	266.4	357.8	444.0	481.9	634.7	814.9	728.7	545.9	509.3
219.4	82.5°	178.9	173.7	267.7	331.7	340.9	489.7	675.2	611.2	446.6	389.2
130.6	85°	97.9	103.2	171.1	194.6	198.5	342.2	528.9	472.8	343.5	288.6
47.0	87.5°	27.4	35.3	62.7	77.1	95.3	177.6	314.7	280.8	172.4	120.1
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>
3219.2
3455.6
3605.8
3648.9
3625.4
3570.5
3494.8
3366.8
3227.1
3138.2
3065.1
2984.1
2894.0
2762.1
2591.0
2374.3
2127.4
1880.6
1688.6
1560.6
1439.2
1346.5
1223.7
1117.9
1018.7
940.3
878.9
831.9
796.6
750.9
830.6
615.1
487.1
391.8
291.2
120.1
0.0

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