

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: P939984

Luminaire Tested: **GALN-SB2D-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13353 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

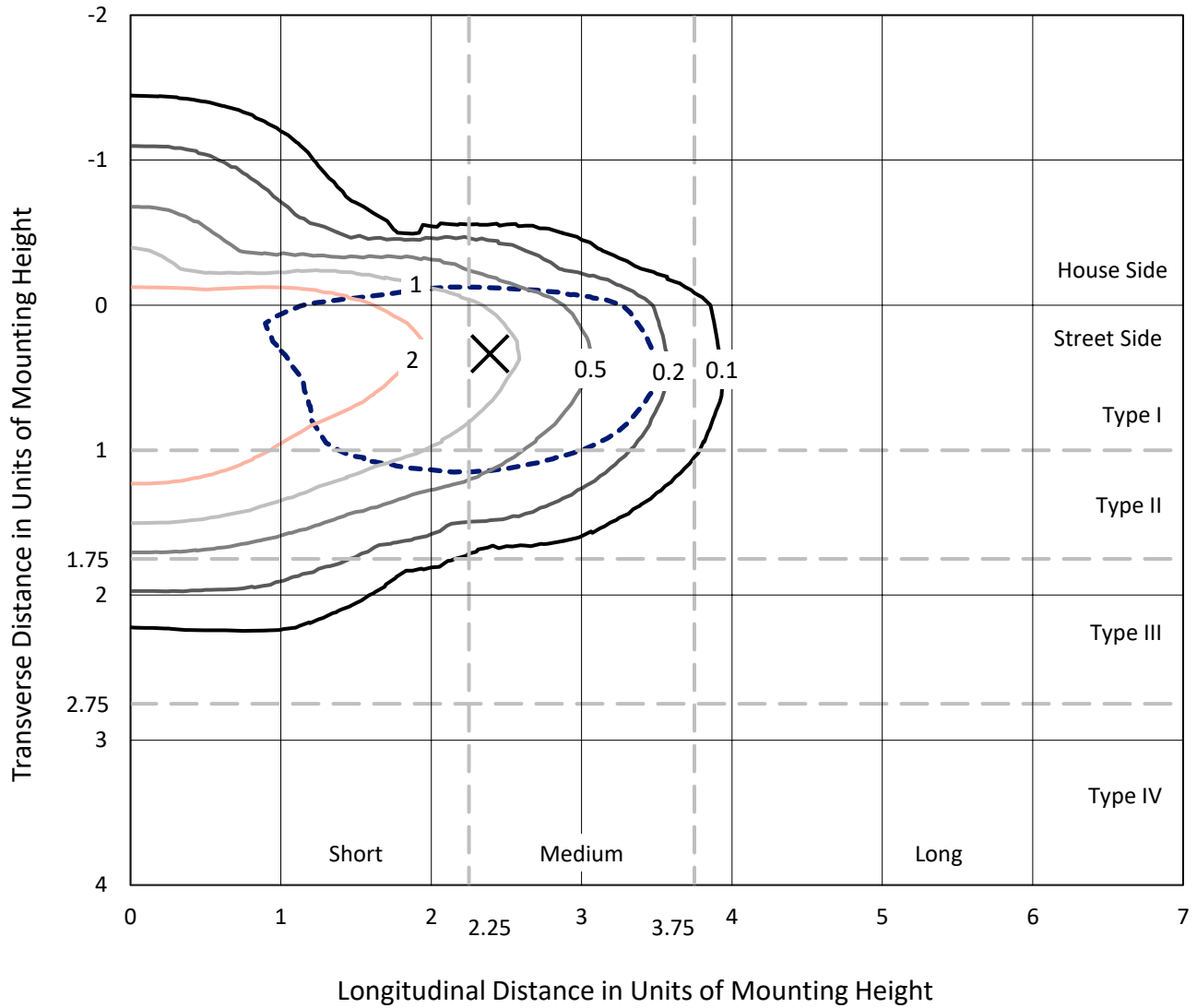
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

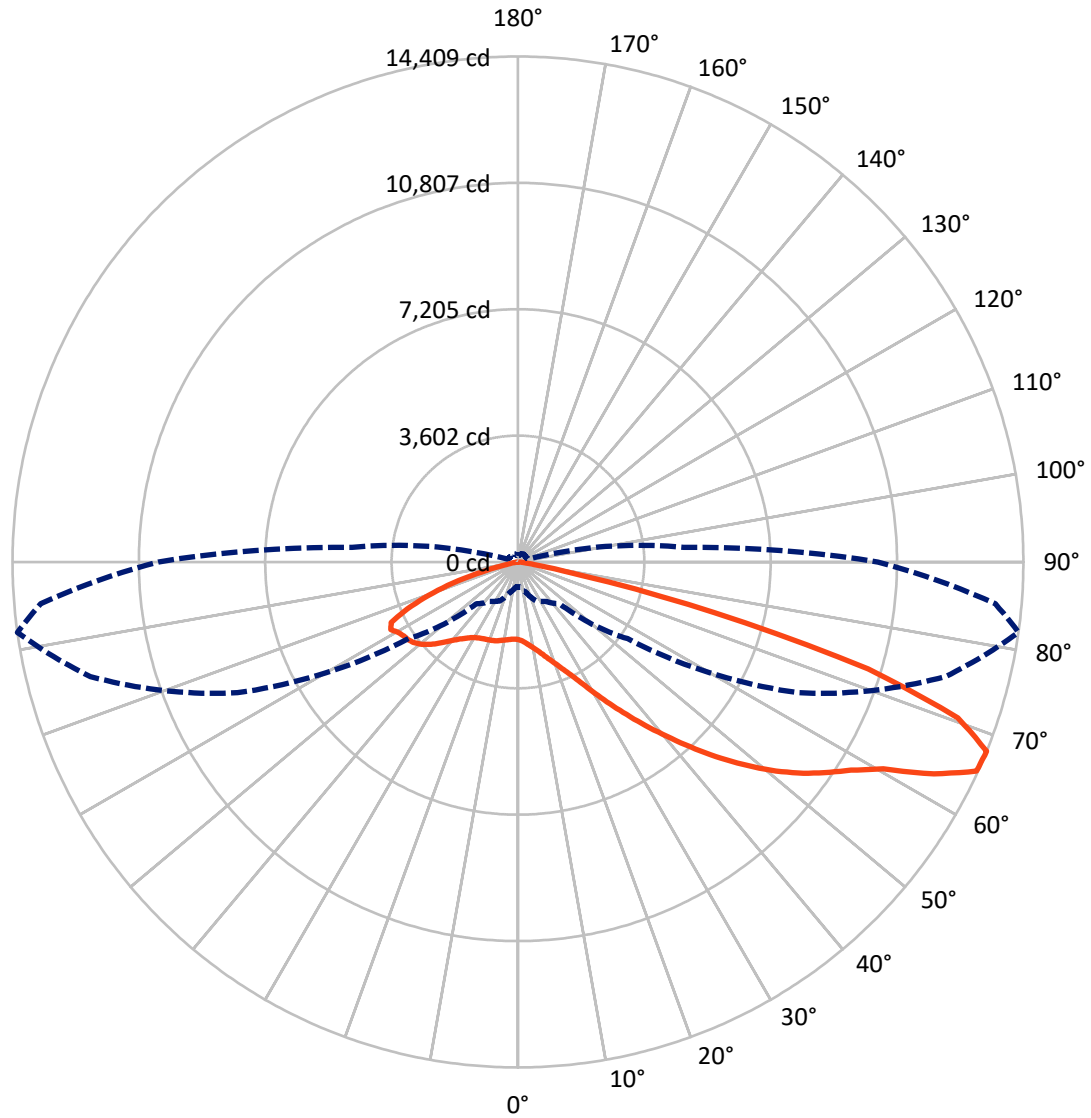
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2418.8	0.0	2418.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	10934.2	0.0	10934.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	13353.0	0.0	13353.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.1	1.5
10°-20°	512.1	3.8
20°-30°	820.3	6.1
30°-40°	1450.5	10.9
40°-50°	2541.5	19.0
50°-60°	3389.6	25.4
60°-70°	3155.6	23.6
70°-80°	1211.1	9.1
80°-90°	75.2	0.6
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°	13353.0	100.0
0°-180°	13353.0	100.0

Coefficient of Utilization



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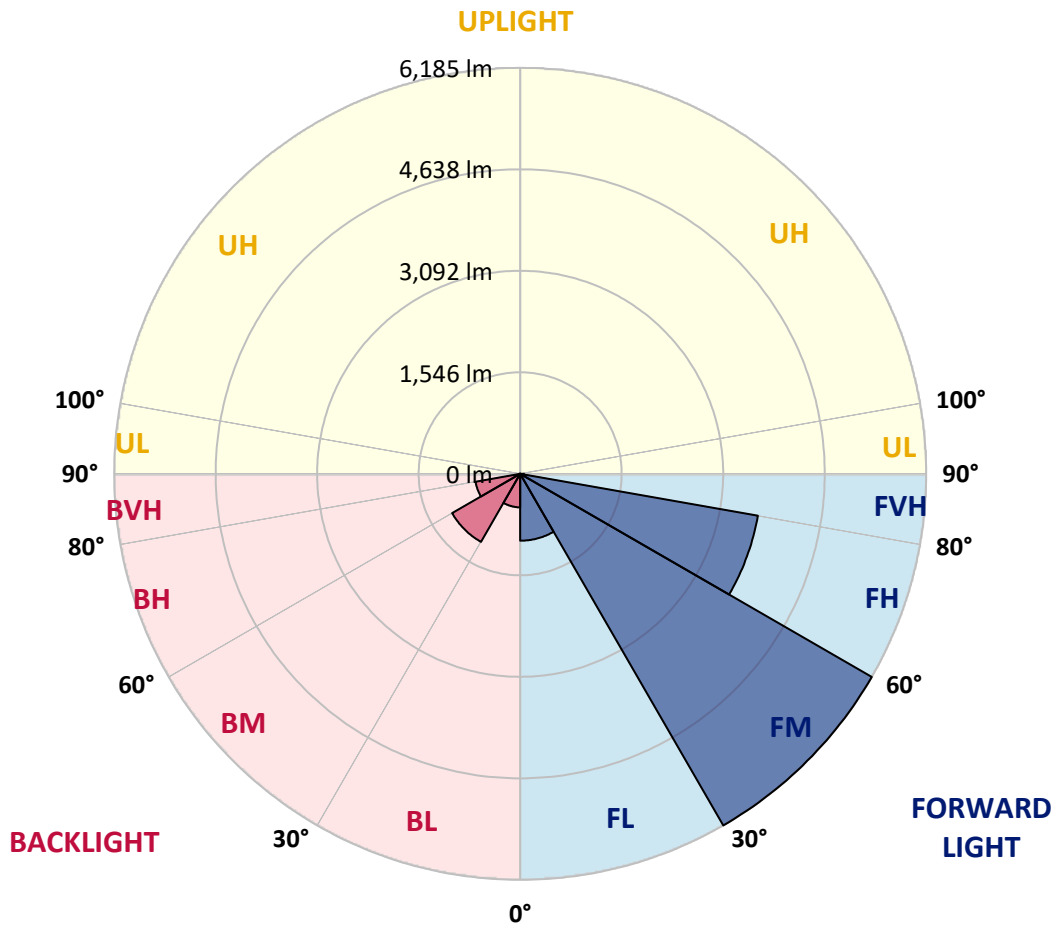
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1018.7	7.6			
FM (30°-60°)	6184.6	46.3			
FH (60°-80°)	3676.3	27.5			G2/5000
FVH (80°-90°)	54.7	0.4			G1/100
BL (0°-30°)	510.8	3.8	B2/1000		
BM (30°-60°)	1197.0	9.0	B2/2500		
BH (60°-80°)	690.4	5.2	B2/1000		G2/1000
BVH (80°-90°)	20.5	0.2			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1
2.5°	2338.1	2351.5	2343.8	2340.0	2333.3	2323.7	2316.0	2291.9	2266.9	2250.6
5°	2385.2	2398.6	2397.7	2401.5	2406.3	2409.2	2407.3	2380.4	2344.8	2316.9
7.5°	2344.8	2360.2	2372.7	2391.9	2425.6	2461.1	2478.4	2472.7	2436.1	2397.7
10°	2230.4	2246.7	2276.6	2321.7	2392.9	2469.8	2534.2	2564.0	2540.9	2498.6
12.5°	2020.8	2037.2	2095.8	2193.9	2313.1	2446.7	2569.8	2649.6	2655.3	2613.0
15°	1785.3	1801.6	1864.1	1987.2	2168.9	2383.3	2589.0	2739.9	2790.9	2754.4
17.5°	1639.2	1653.6	1700.7	1799.7	1989.1	2256.4	2582.3	2836.1	2952.4	2923.6
20°	1594.9	1607.4	1629.5	1698.8	1856.4	2124.7	2538.0	2926.4	3126.4	3110.1
22.5°	1642.0	1653.6	1660.3	1691.1	1790.1	2038.1	2482.3	3018.7	3328.3	3330.2
25°	1750.7	1762.2	1754.5	1773.7	1817.0	2011.2	2461.1	3127.4	3582.1	3603.3
27.5°	1929.5	1930.5	1912.2	1911.2	1918.0	2051.6	2483.2	3243.7	3902.2	3941.7
30°	2288.1	2273.7	2203.5	2127.5	2092.9	2172.7	2544.8	3381.2	4280.1	4350.3
32.5°	2840.9	2819.7	2690.9	2509.2	2326.5	2367.9	2655.3	3537.9	4691.5	4818.4
35°	3440.8	3435.0	3300.4	3030.3	2711.1	2645.7	2835.1	3743.6	5140.5	5342.4
37.5°	3998.4	3995.5	3918.6	3600.4	3212.0	3033.2	3123.5	4012.8	5621.2	5913.5
40°	4507.9	4516.6	4439.7	4155.1	3763.8	3530.2	3515.8	4345.4	6155.7	6535.5
42.5°	4948.2	4957.8	4880.0	4669.4	4308.9	4080.1	3997.4	4753.1	6677.8	7203.6
45°	5247.2	5306.8	5295.3	5127.1	4868.4	4631.0	4576.2	5264.5	7272.9	7912.2
47.5°	5331.8	5386.6	5473.1	5496.2	5338.6	5104.9	5170.3	5880.8	7874.7	8621.7
50°	5123.2	5174.2	5353.9	5593.3	5702.9	5630.8	5748.1	6541.2	8490.9	9329.3
52.5°	4711.7	4763.6	4990.5	5369.3	5816.4	6043.2	6327.8	7192.1	9087.9	9999.3
55°	4116.6	4171.4	4462.7	4891.5	5600.1	6213.4	6811.4	7842.0	9635.0	10602.1
57.5°	3307.2	3347.5	3650.4	4250.3	5055.9	6044.2	7168.1	8551.5	10150.3	11194.3
60°	2155.4	2191.0	2542.9	3212.0	4154.1	5478.9	7239.2	9342.7	10834.8	11964.4
62.5°	1433.4	1457.5	1666.1	2157.3	2925.5	4393.5	6822.9	9974.3	11838.5	13304.6
65°	983.5	1007.5	1216.1	1558.4	1890.1	2906.3	5626.0	9890.7	12747.9	14368.8
67.5°	701.8	722.0	898.9	1221.9	1368.0	1688.2	3813.8	8821.6	12617.2	14409.2
70°	502.8	514.3	660.5	951.8	1087.3	1014.3	2120.8	6747.0	11047.2	13305.5
72.5°	351.9	355.7	458.6	724.9	875.8	740.3	1009.5	4498.3	8355.4	10443.5
75°	238.4	243.2	308.6	531.6	702.8	565.3	534.5	2412.1	4905.0	5780.8
77.5°	146.1	148.1	199.0	363.4	525.9	430.7	344.2	1021.9	1897.8	1863.2
80°	82.7	82.7	126.9	225.9	358.6	277.8	241.3	434.5	600.9	527.8
82.5°	46.1	47.1	92.3	140.4	237.5	164.4	132.7	200.9	259.6	229.8
85°	19.2	21.2	56.7	66.3	113.4	81.7	53.8	84.6	96.1	85.6
87.5°	1.9	2.9	17.3	12.5	13.5	16.3	7.7	16.3	13.5	13.5
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°
2212.1	0°	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1
2244.8	2.5°	2226.6	2212.1	2175.6	2133.3	2077.5	2050.6	2014.1	1989.1	1967.9	1969.9
2300.6	5°	2269.8	2233.3	2151.6	2049.7	1922.8	1832.4	1736.3	1669.9	1616.1	1604.5
2377.5	7.5°	2329.4	2271.7	2128.5	1944.9	1730.5	1568.0	1422.8	1329.6	1263.3	1242.1
2470.8	10°	2406.3	2322.7	2098.7	1813.2	1504.6	1297.9	1142.1	1069.1	1023.9	1008.5
2580.3	12.5°	2495.7	2381.3	2059.3	1652.6	1271.9	1072.9	973.9	937.3	922.9	918.1
2714.9	15°	2608.2	2454.4	1999.7	1462.3	1074.8	935.4	893.1	888.3	890.2	888.3
2876.5	17.5°	2741.9	2534.2	1902.6	1266.1	942.2	865.2	849.9	853.7	858.5	857.6
3057.2	20°	2888.0	2613.0	1778.6	1092.1	851.8	815.3	806.6	810.4	814.3	812.4
3265.8	22.5°	3054.3	2697.6	1641.1	956.6	791.2	769.1	759.5	760.5	760.5	756.6
3530.2	25°	3253.3	2790.9	1496.9	860.4	745.1	727.8	716.2	712.4	706.6	695.1
3851.3	27.5°	3490.8	2889.9	1358.4	793.1	708.5	692.2	678.7	669.1	654.7	635.5
4236.8	30°	3758.0	3010.1	1241.1	750.8	679.7	663.4	648.0	633.6	612.4	588.4
4680.0	32.5°	4072.4	3138.9	1155.6	723.0	653.7	636.4	618.2	600.9	577.8	553.8
5178.0	35°	4447.4	3294.7	1105.6	703.7	633.6	610.5	590.3	571.1	553.8	532.6
5719.3	37.5°	4854.0	3460.0	1090.2	694.1	620.1	584.5	561.4	548.0	546.1	533.6
6304.7	40°	5299.1	3656.1	1101.7	688.3	605.7	559.5	534.5	531.6	536.5	514.3
6930.6	42.5°	5770.2	3888.8	1121.0	681.6	585.5	534.5	510.5	510.5	506.6	475.9
7592.0	45°	6279.7	4157.0	1140.2	665.3	561.4	509.5	491.3	484.5	468.2	438.4
8257.3	47.5°	6793.1	4430.0	1154.6	635.5	532.6	488.4	472.0	456.7	432.6	405.7
8910.1	50°	7280.5	4675.2	1139.2	591.2	499.9	468.2	450.9	429.7	403.8	385.5
9528.3	52.5°	7716.1	4887.7	1073.9	539.3	465.3	447.0	431.7	409.5	388.4	369.2
10085.9	55°	8094.8	5059.8	958.5	490.3	434.5	428.8	413.4	385.5	356.7	340.3
10638.7	57.5°	8458.2	5190.5	814.3	449.9	406.7	408.6	385.5	360.5	333.6	316.3
11383.7	60°	8941.8	5365.5	668.2	412.4	376.9	382.6	357.6	339.4	305.7	283.6
12661.4	62.5°	9714.8	5637.5	530.7	366.3	342.3	344.2	333.6	311.5	271.1	245.2
13608.4	65°	10328.1	5537.6	418.2	316.3	302.8	305.7	305.7	281.7	238.4	208.6
13659.3	67.5°	10258.9	4741.5	333.6	267.3	265.3	267.3	274.0	253.8	211.5	187.5
12619.1	70°	9450.4	3771.5	267.3	222.1	230.7	225.9	245.2	231.7	190.4	166.3
9783.0	72.5°	7711.2	2716.9	203.8	183.6	176.9	184.6	221.1	208.6	158.6	131.7
5181.8	75°	4506.0	1449.8	151.9	145.2	127.9	153.8	196.1	177.9	121.1	97.1
1588.2	77.5°	1467.1	505.7	111.5	106.7	95.2	124.0	167.3	150.0	99.0	76.9
465.3	80°	393.2	152.9	75.9	70.2	61.5	92.3	132.7	119.2	71.1	50.0
200.0	82.5°	157.7	64.4	44.2	39.4	33.6	63.5	104.8	96.1	52.9	31.7
62.5	85°	51.0	21.2	16.3	12.5	15.4	39.4	62.5	65.4	37.5	16.3
9.6	87.5°	6.7	2.9	2.9	3.8	2.9	6.7	19.2	18.3	10.6	1.9
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>
2212.1
1950.6
1578.6
1221.0
997.0
915.2
887.4
855.6
811.4
754.7
693.2
633.6
586.4
554.7
530.7
532.6
515.3
475.9
437.4
404.7
382.6
367.2
338.4
314.4
280.7
243.2
205.7
183.6
163.4
128.8
94.2
74.0
49.0
31.7
12.5
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