

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: P946789

Luminaire Tested: **GALN-SB2B-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10057 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

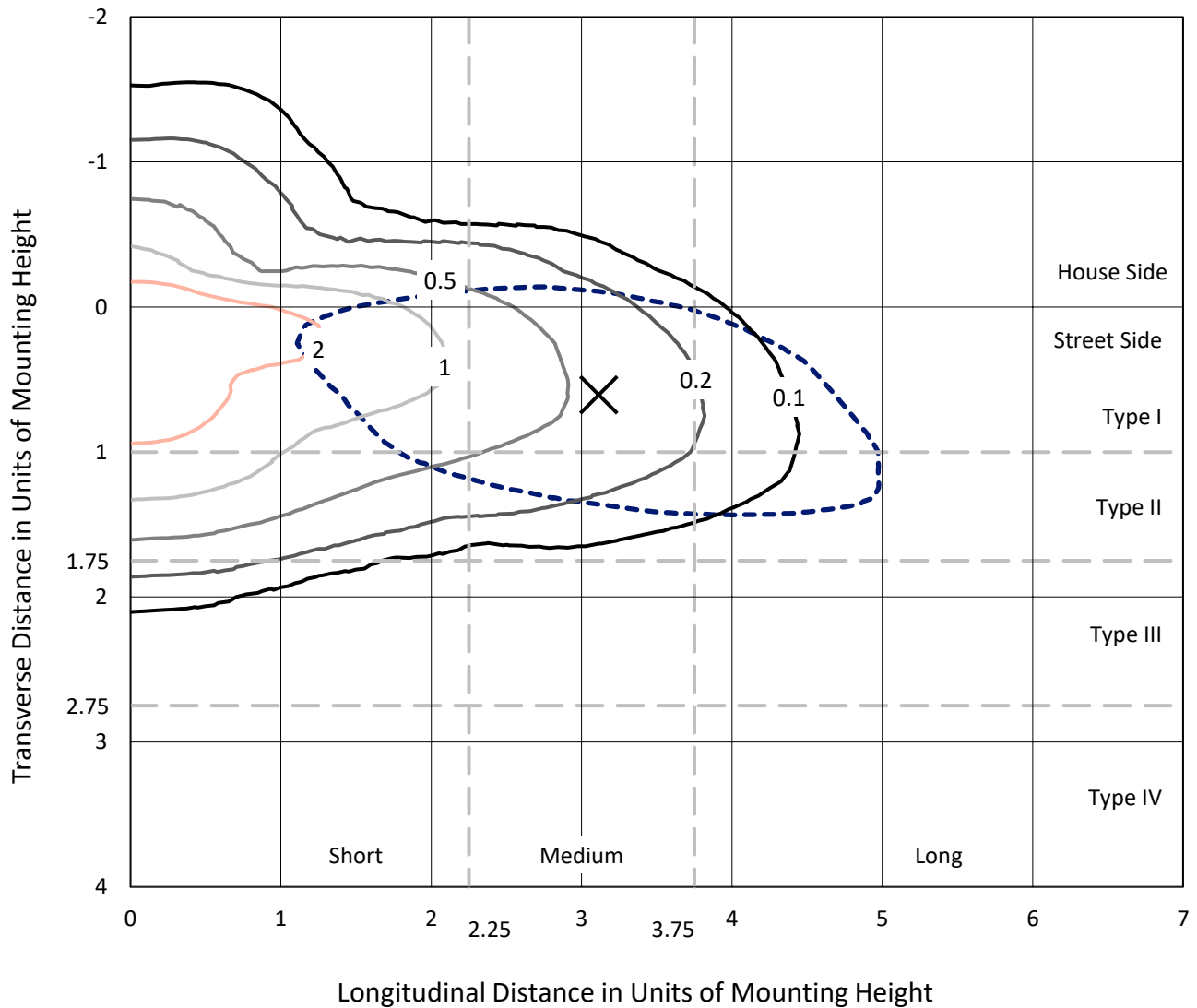
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

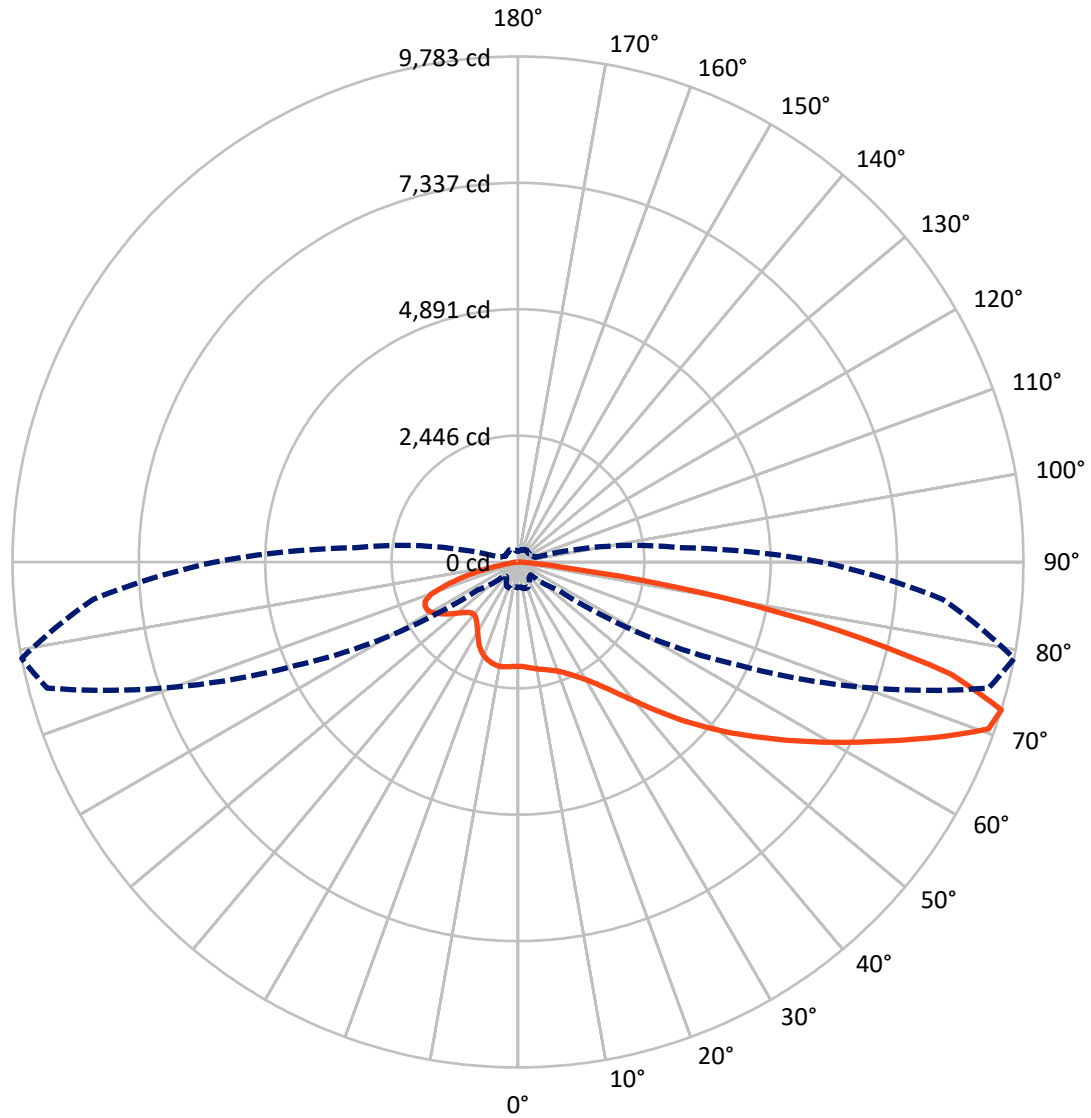
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2213.1	0.0	2213.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	7843.9	0.0	7843.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	10057.0	0.0	10057.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.3	1.8
10°-20°	479.1	4.8
20°-30°	773.1	7.7
30°-40°	1160.3	11.5
40°-50°	1646.0	16.4
50°-60°	2078.6	20.7
60°-70°	2111.1	21.0
70°-80°	1438.8	14.3
80°-90°	186.7	1.9
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°	10057.0	100.0
0°-180°	10057.0	100.0

Coefficient of Utilization



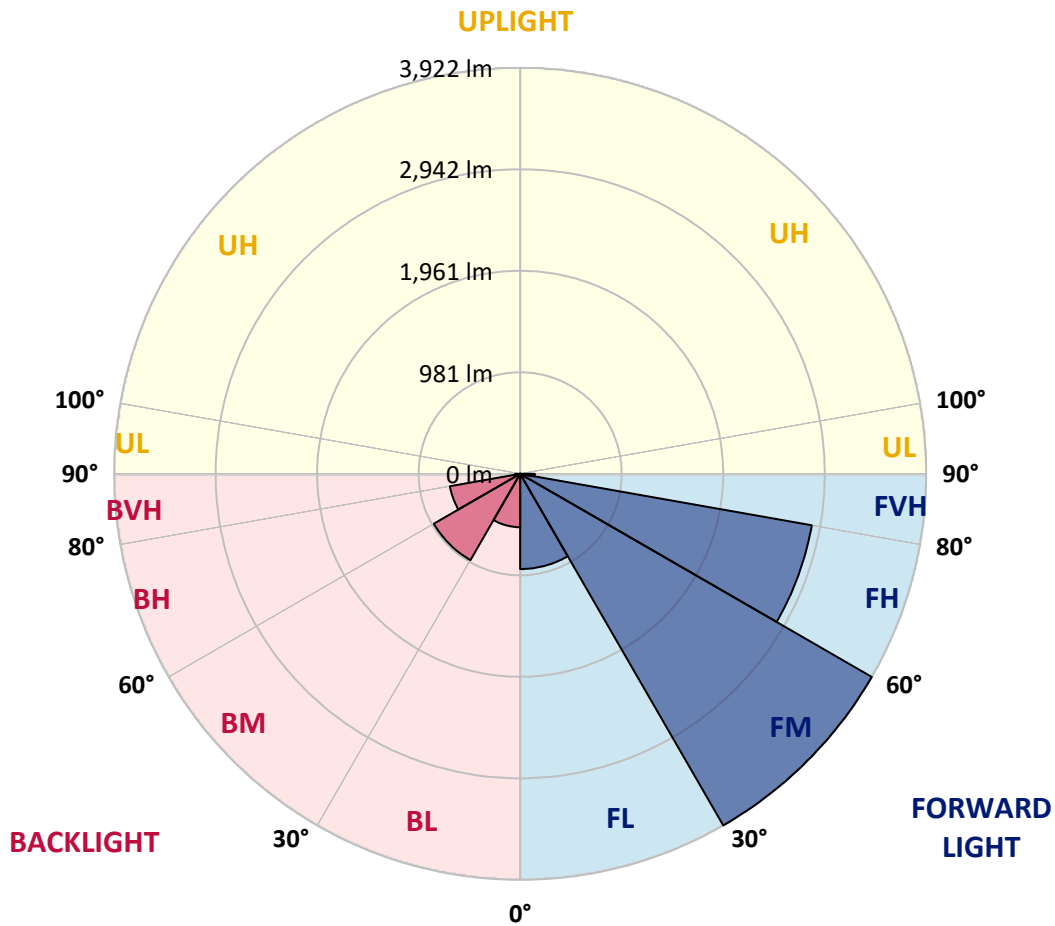
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	920.0	9.1			
FM (30°-60°)	3922.4	39.0			
FH (60°-80°)	2860.9	28.4			G2/5000
FVH (80°-90°)	140.6	1.4			G2/225
BL (0°-30°)	515.5	5.1	B2/1000		
BM (30°-60°)	962.5	9.6	B1/1000		
BH (60°-80°)	689.1	6.9	B2/1000		G2/1000
BVH (80°-90°)	46.1	0.5			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°	79°
0°	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8
2.5°	2019.9	2010.3	2016.2	2014.1	2016.7	2019.9	2021.0	2022.6	2027.9	2027.4
5°	2015.7	2006.1	2014.1	2011.4	2018.3	2025.8	2032.1	2038.0	2046.5	2050.2
7.5°	2006.6	2000.2	2008.2	2016.2	2029.0	2040.1	2049.2	2062.5	2074.7	2076.8
10°	1953.9	1949.2	1967.8	1988.5	2023.6	2054.0	2073.6	2089.1	2102.4	2104.5
12.5°	1899.2	1893.3	1914.0	1942.2	1999.2	2054.0	2095.5	2115.7	2127.4	2134.3
15°	1890.1	1885.3	1897.0	1921.5	1968.8	2039.6	2110.3	2147.6	2157.7	2165.7
17.5°	1933.7	1924.7	1929.5	1938.0	1965.6	2026.3	2122.1	2183.8	2199.2	2207.7
20°	2034.8	2022.0	2014.6	1997.6	1992.8	2028.4	2121.0	2227.4	2247.6	2258.2
22.5°	2169.4	2160.9	2144.9	2101.8	2055.0	2054.5	2141.2	2283.2	2321.0	2331.1
25°	2332.2	2319.4	2299.2	2240.7	2150.8	2106.1	2175.2	2354.5	2417.8	2420.5
27.5°	2519.4	2500.3	2472.6	2395.5	2274.2	2187.0	2227.4	2436.4	2529.0	2527.9
30°	2716.8	2697.6	2668.4	2574.8	2422.1	2296.0	2299.7	2524.8	2660.9	2655.1
32.5°	2861.0	2846.6	2840.7	2768.4	2592.3	2424.7	2382.7	2622.6	2823.7	2818.4
35°	2971.6	2953.0	2959.9	2923.2	2778.0	2568.9	2484.3	2739.1	3021.6	3021.1
37.5°	3081.2	3064.7	3070.6	3046.1	2949.8	2751.9	2608.3	2881.7	3266.9	3278.6
40°	3181.2	3163.7	3187.1	3164.2	3083.3	2946.6	2749.2	3042.9	3550.9	3573.3
42.5°	3241.3	3227.5	3266.3	3266.9	3199.3	3111.0	2904.1	3220.6	3879.7	3929.7
45°	3262.1	3257.3	3315.8	3328.0	3302.0	3206.2	3043.4	3414.2	4234.0	4323.4
47.5°	3239.7	3230.7	3311.5	3356.8	3377.5	3250.9	3158.9	3623.8	4595.7	4726.6
50°	3127.0	3109.4	3229.6	3324.8	3398.8	3280.2	3275.4	3865.9	5007.0	5150.1
52.5°	2924.3	2911.0	3047.7	3213.1	3352.0	3294.5	3406.2	4130.3	5397.4	5582.6
55°	2665.2	2647.6	2798.2	3014.2	3235.5	3289.7	3537.1	4426.0	5858.1	6045.9
57.5°	2254.5	2219.4	2409.8	2665.2	3045.6	3283.9	3673.3	4720.2	6326.3	6551.3
60°	1655.5	1603.4	1836.9	2139.6	2674.2	3227.0	3841.9	5050.0	6888.0	7090.7
62.5°	963.9	933.6	1086.3	1368.8	2015.7	2891.8	3936.6	5433.6	7440.2	7653.0
65°	748.5	740.0	753.3	775.1	1121.9	2165.1	3644.6	5807.6	8142.4	8291.4
67.5°	684.7	678.3	684.1	643.2	569.2	1206.0	2883.3	5902.3	8894.6	8985.1
70°	608.6	601.1	620.3	585.2	447.9	548.5	1863.0	5558.6	9493.1	9662.8
72.5°	495.8	487.3	532.0	516.0	377.2	352.2	935.7	4742.0	9430.3	9782.5
75°	380.9	376.1	429.3	442.6	307.5	277.2	449.0	3524.9	8298.8	8653.6
77.5°	295.8	292.1	319.2	367.6	247.9	214.9	276.1	2235.9	6253.9	6316.1
80°	221.8	211.2	236.2	284.6	193.1	156.9	187.3	1303.9	3953.1	3583.4
82.5°	138.8	133.5	154.3	189.9	136.2	108.0	121.8	720.3	1584.2	933.1
85°	79.3	77.1	84.1	108.5	73.9	62.2	69.7	318.1	289.4	199.0
87.5°	31.9	30.9	38.3	48.4	27.1	22.9	24.5	76.6	63.8	59.0
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°
2018.8	0°	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8
2026.8	2.5°	2024.7	2024.7	2017.3	2005.5	1992.2	1983.7	1969.9	1966.2	1951.8	1947.6
2044.9	5°	2049.2	2044.9	2022.0	1989.1	1943.8	1902.3	1856.6	1827.9	1787.4	1773.1
2080.6	7.5°	2080.0	2068.3	2029.0	1956.6	1861.9	1768.8	1672.0	1598.6	1528.4	1503.4
2109.8	10°	2108.2	2091.7	2024.7	1898.1	1734.2	1573.1	1418.8	1310.8	1228.9	1195.3
2142.3	12.5°	2136.4	2106.1	1996.5	1800.7	1552.8	1334.2	1169.8	1085.8	1035.2	994.8
2168.9	15°	2163.0	2120.5	1952.9	1670.4	1353.9	1132.0	1010.8	943.7	903.3	876.7
2207.7	17.5°	2193.9	2132.7	1887.4	1505.0	1164.5	992.1	893.2	852.8	844.8	841.6
2260.9	20°	2237.0	2143.9	1801.3	1319.8	1025.1	880.4	829.3	825.6	825.1	823.5
2324.7	22.5°	2283.2	2157.2	1687.4	1151.7	906.5	810.7	801.7	794.2	789.5	788.9
2401.9	25°	2338.0	2161.4	1544.9	1013.9	805.4	777.7	767.1	755.9	752.7	752.7
2489.6	27.5°	2391.2	2147.1	1378.9	894.3	748.5	747.4	733.6	729.9	729.3	730.9
2589.7	30°	2444.4	2119.9	1214.0	783.6	715.5	715.5	710.7	713.4	715.5	720.8
2726.9	32.5°	2516.2	2091.2	1076.2	701.7	686.8	681.5	686.2	691.6	693.7	700.6
2907.2	35°	2621.6	2071.0	966.6	657.0	657.0	650.1	652.7	651.7	646.9	643.7
3125.4	37.5°	2761.0	2069.9	876.2	636.2	632.0	630.9	631.5	624.5	605.9	583.6
3389.2	40°	2928.5	2098.6	806.5	621.9	618.7	625.1	621.9	603.3	552.2	513.4
3713.7	42.5°	3153.6	2180.6	761.8	604.3	613.9	621.9	609.1	544.7	510.2	484.1
4083.4	45°	3418.5	2313.6	738.9	585.7	604.9	614.4	552.7	524.5	496.9	465.5
4486.7	47.5°	3718.5	2481.1	733.6	568.1	584.6	590.5	528.8	516.0	484.6	450.6
4892.0	50°	4045.1	2679.6	748.0	547.4	555.4	535.2	520.8	509.1	476.7	443.1
5307.5	52.5°	4382.9	2898.2	776.7	519.2	526.1	503.8	517.6	507.5	471.9	426.6
5736.8	55°	4714.9	3118.4	804.3	486.2	496.3	475.6	508.6	501.1	450.1	399.0
6194.9	57.5°	5052.2	3337.6	831.5	457.0	467.6	448.5	494.2	484.1	425.6	373.4
6694.9	60°	5402.7	3550.4	844.2	428.8	436.2	423.5	472.4	454.8	397.9	347.4
7186.5	62.5°	5731.0	3727.6	823.5	400.6	405.4	400.0	443.7	420.3	370.3	318.1
7698.7	65°	6060.3	3832.9	759.7	372.9	374.0	371.3	403.2	383.0	337.8	292.6
8147.2	67.5°	6358.7	3891.9	658.1	343.1	340.5	339.4	365.5	342.6	306.4	267.1
8488.2	70°	6422.0	3741.9	502.7	308.0	308.0	305.4	324.0	300.6	271.8	239.9
8244.0	72.5°	5865.6	3147.7	357.0	268.1	272.4	267.1	282.5	262.8	236.7	215.5
7105.1	75°	4729.8	2308.2	259.6	227.2	234.6	225.6	239.9	226.1	203.7	203.2
4896.3	77.5°	3249.8	1427.3	188.3	187.3	192.6	180.9	197.4	189.9	169.7	160.7
2131.1	80°	1386.9	569.2	137.2	144.7	144.7	134.1	153.2	155.3	137.8	133.5
411.2	82.5°	276.1	161.7	96.3	99.5	93.6	90.4	108.5	120.2	166.0	184.6
124.0	85°	83.0	59.6	58.0	54.3	47.9	48.4	63.8	120.8	149.0	85.1
41.0	87.5°	22.9	14.9	15.4	12.2	10.1	13.3	21.8	91.5	50.0	21.3
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°
2018.8
1954.5
1783.7
1506.6
1202.8
1008.1
881.5
843.7
828.8
794.8
755.9
735.2
724.6
706.5
651.1
584.1
512.3
483.0
463.4
447.9
439.4
423.5
396.3
372.4
345.8
317.6
289.4
263.9
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18.1
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