

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: P941519

Luminaire Tested: **GALN-SB5A-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941519
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-SB5A-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 20124 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

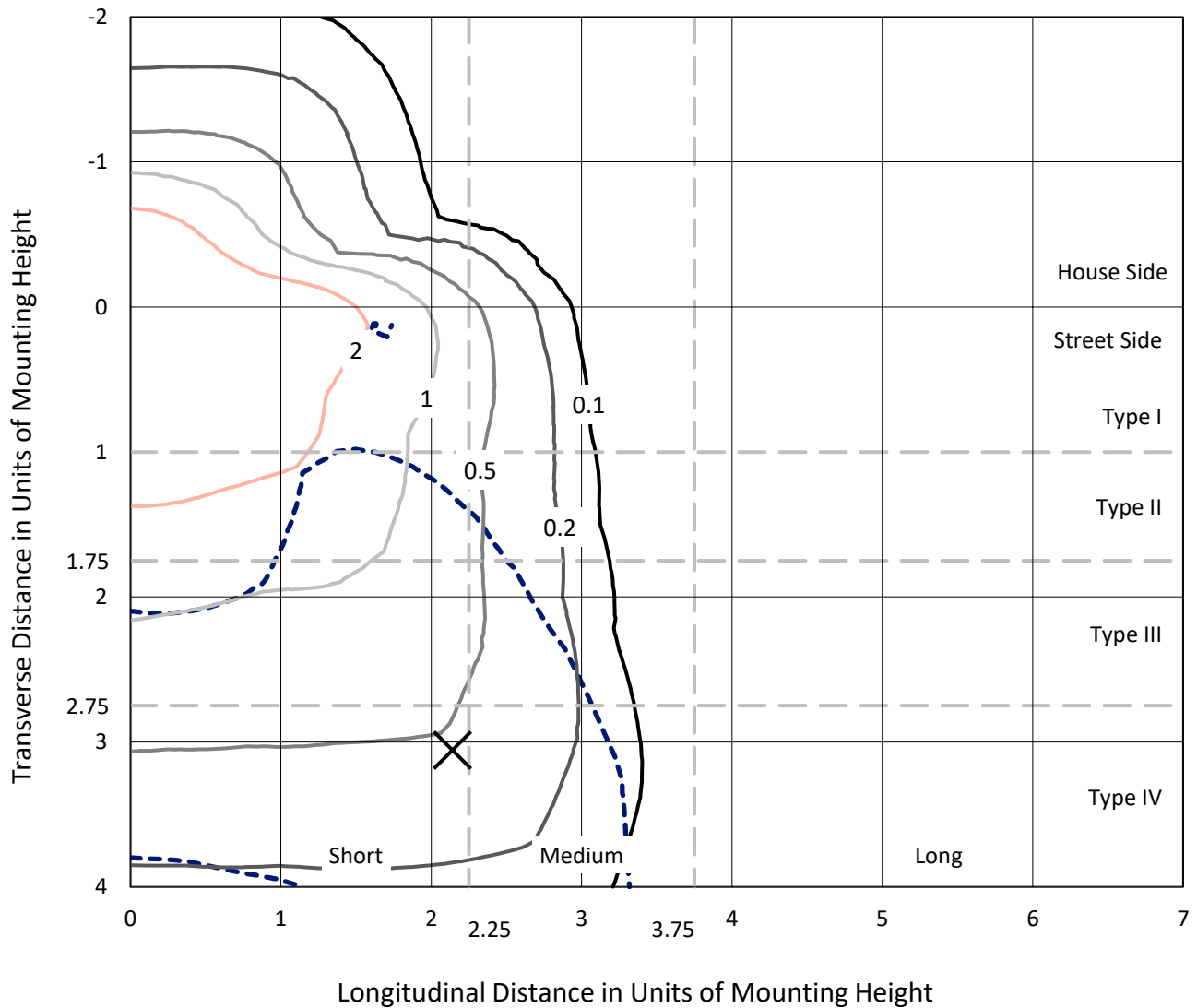
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

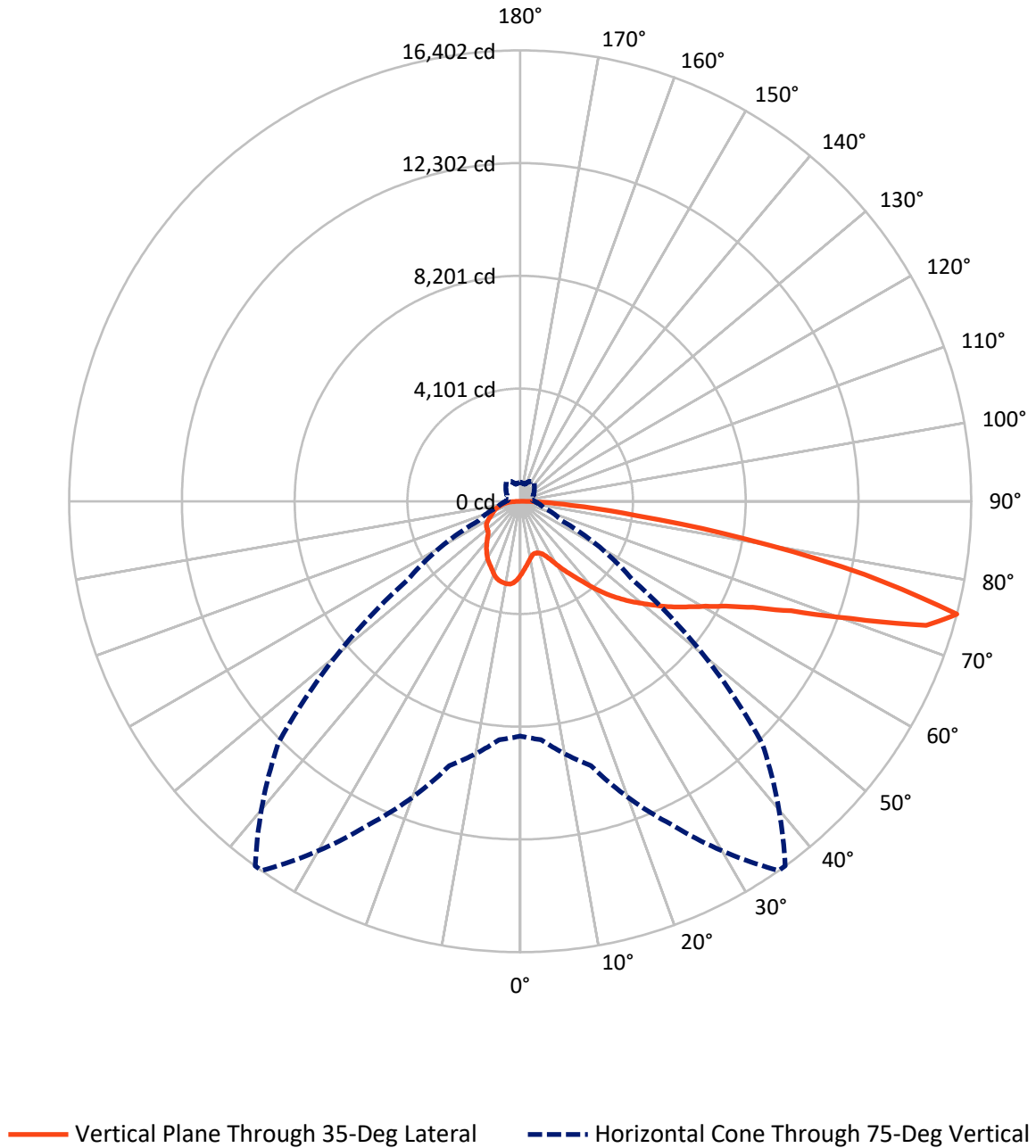
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4789.0	0.0	4789.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	15335.0	0.0	15335.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	20124.0	0.0	20124.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.9	1.3
10°-20°	732.4	3.6
20°-30°	1229.8	6.1
30°-40°	1911.3	9.5
40°-50°	2836.9	14.1
50°-60°	3916.5	19.5
60°-70°	4751.6	23.6
70°-80°	3926.8	19.5
80°-90°	564.8	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°	20124.0	100.0
0°-180°	20124.0	100.0

Coefficient of Utilization



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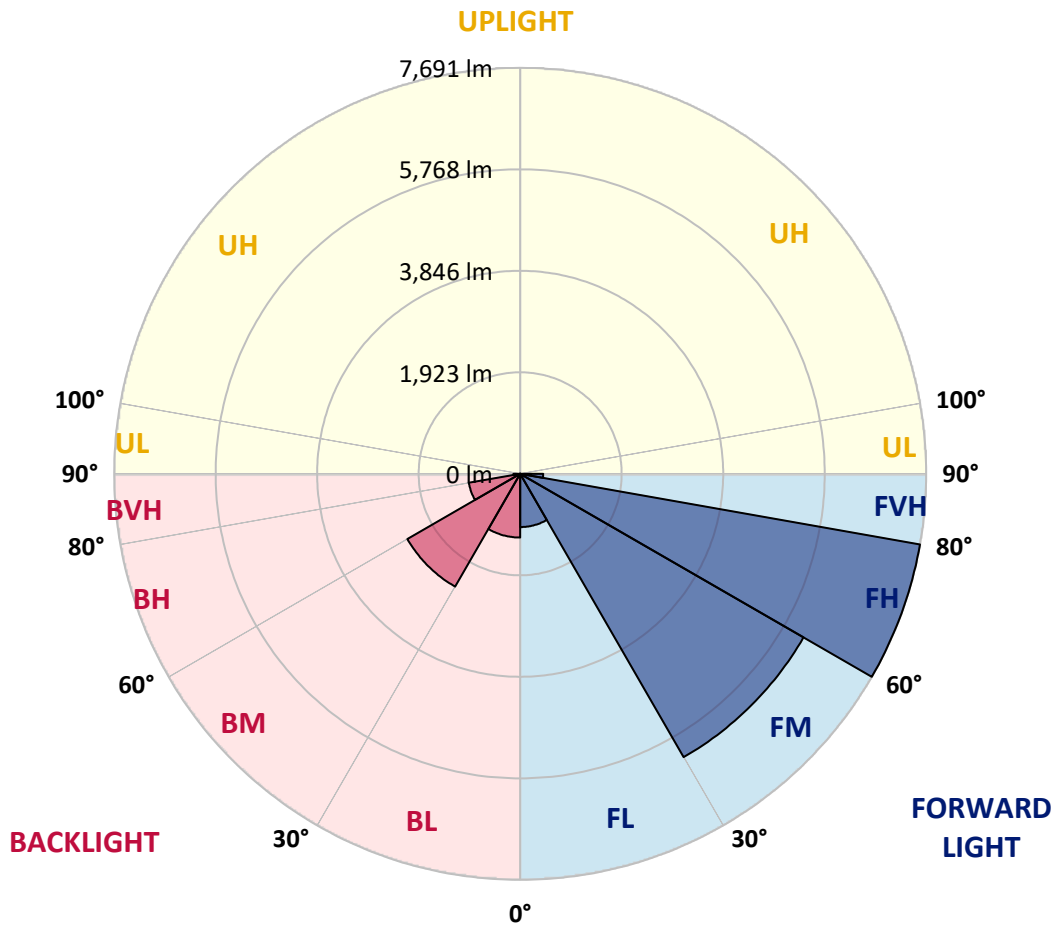
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1009.2	5.0			
FM (30°-60°)	6197.1	30.8			
FH (60°-80°)	7691.1	38.2			G4/12000
FVH (80°-90°)	437.6	2.2			G3/500
BL (0°-30°)	1206.9	6.0	B3/2500		
BM (30°-60°)	2467.6	12.3	B2/2500		
BH (60°-80°)	987.3	4.9	B2/1000		G2/1000
BVH (80°-90°)	127.2	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°	2681.7	2681.7	2681.7	2681.7	2681.7	2681.7	2681.7	2681.7	2681.7	2681.7
2.5°	2472.8	2488.0	2494.5	2491.3	2507.6	2505.4	2528.3	2556.6	2595.7	2633.8
5°	2282.4	2298.7	2312.9	2325.9	2357.5	2367.3	2403.2	2457.6	2529.4	2602.2
7.5°	2105.1	2119.2	2141.0	2164.9	2218.2	2228.0	2287.8	2372.7	2472.8	2579.4
10°	1960.4	1974.5	1997.4	2024.6	2090.9	2102.9	2179.1	2292.2	2422.7	2557.6
12.5°	1898.4	1902.7	1915.8	1943.0	2000.6	2008.3	2092.0	2221.5	2373.8	2541.3
15°	1895.1	1903.8	1904.9	1919.0	1966.9	1970.2	2047.4	2175.8	2343.3	2538.1
17.5°	1927.7	1934.3	1924.5	1933.2	1973.4	1978.9	2039.8	2154.0	2333.5	2552.2
20°	2014.8	2020.2	1990.8	1978.9	2008.3	2012.6	2072.4	2168.2	2343.3	2581.6
22.5°	2199.7	2203.0	2131.2	2082.2	2084.4	2086.6	2138.8	2225.8	2381.4	2634.9
25°	2488.0	2485.8	2371.6	2277.0	2222.6	2210.6	2245.4	2319.4	2445.6	2705.6
27.5°	2825.3	2808.9	2694.7	2553.3	2434.7	2417.3	2409.7	2441.2	2537.0	2799.2
30°	3206.0	3190.8	3067.9	2882.9	2718.6	2690.4	2618.6	2602.2	2673.0	2926.4
32.5°	3623.8	3614.0	3467.1	3243.0	3023.3	2990.6	2869.9	2826.3	2881.8	3119.0
35°	3974.1	3965.4	3843.5	3612.9	3344.2	3303.9	3181.0	3132.0	3160.3	3365.9
37.5°	4290.7	4286.3	4181.9	4000.2	3722.8	3673.8	3535.7	3519.3	3513.9	3691.2
40°	4584.4	4573.5	4464.7	4369.0	4163.4	4118.8	3996.9	3982.8	3941.4	4091.6
42.5°	4909.7	4881.4	4723.6	4679.0	4623.6	4586.6	4513.7	4515.8	4424.5	4543.0
45°	5175.1	5158.8	4996.7	4970.6	5030.4	5015.2	5078.3	5094.6	4917.3	5016.3
47.5°	5460.1	5444.9	5307.8	5289.3	5451.4	5455.8	5678.8	5684.2	5398.1	5508.0
50°	5811.5	5789.8	5653.8	5676.6	5858.3	5874.6	6282.6	6245.6	5840.9	6007.4
52.5°	6043.3	6056.3	6026.9	6063.9	6312.0	6327.2	6876.6	6781.9	6279.3	6500.2
55°	6214.1	6240.2	6331.5	6416.4	6790.6	6805.9	7436.8	7292.2	6642.7	6957.1
57.5°	6433.8	6396.8	6567.6	6733.0	7245.4	7285.6	7981.9	7783.9	6964.7	7350.9
60°	6749.3	6723.2	6855.9	7100.7	7754.5	7818.7	8558.5	8226.7	7200.8	7663.1
62.5°	7389.0	7323.7	7344.4	7560.9	8396.4	8481.2	9209.0	8612.9	7318.3	7785.0
65°	8345.2	8233.2	8128.7	8278.9	9300.4	9384.2	9943.4	8916.4	7274.7	7548.9
67.5°	9549.5	9438.6	9310.2	9451.6	10632.0	10698.4	10849.6	9087.2	6932.1	6639.4
70°	10542.8	10501.4	10654.8	11236.9	12758.8	12761.0	12011.4	8945.8	5993.2	4707.3
72.5°	10411.1	10386.1	11194.4	12993.8	15439.4	15381.7	13111.3	7875.3	4037.2	2123.6
75°	8541.1	8703.2	9955.3	12962.3	16402.2	16394.6	12437.9	5006.5	1669.9	880.1
77.5°	4580.0	4836.8	6463.2	9570.2	12804.5	12997.1	8744.5	1751.5	716.9	563.5
80°	1493.7	1717.8	2576.1	4872.7	8320.2	8284.3	3747.8	687.5	490.6	399.3
82.5°	634.2	660.4	1151.0	2300.9	4270.0	4203.6	1193.4	394.9	344.9	273.1
85°	248.0	277.4	508.0	1064.0	1849.4	1809.2	430.8	195.8	220.8	178.4
87.5°	81.6	99.0	181.7	364.4	575.5	554.8	105.5	67.4	95.7	81.6
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°
2681.7	0°	2681.7	2681.7	2681.7	2681.7	2681.7	2681.7	2681.7	2681.7	2681.7	2681.7
2689.3	2.5°	2704.5	2721.9	2742.6	2773.0	2799.2	2820.9	2843.8	2857.9	2863.3	2879.7
2693.6	5°	2724.1	2762.2	2813.3	2863.3	2912.3	2941.7	2967.8	2980.8	2992.8	3001.5
2705.6	7.5°	2756.7	2805.7	2886.2	2951.5	2992.8	3016.7	3034.1	3029.8	3034.1	3036.3
2718.6	10°	2785.0	2853.5	2949.3	3011.3	3042.8	3043.9	3039.6	3024.3	3016.7	3017.8
2738.2	12.5°	2818.7	2894.9	2998.2	3050.5	3059.2	3035.2	3016.7	2990.6	2980.8	2976.5
2767.6	15°	2864.4	2951.5	3051.5	3071.1	3049.4	3018.9	2987.4	2944.9	2923.2	2905.8
2817.6	17.5°	2919.9	3015.6	3092.9	3078.7	3032.0	2981.9	2930.8	2866.6	2822.0	2803.5
2886.2	20°	2997.1	3083.1	3124.4	3062.4	2991.7	2915.6	2828.5	2750.2	2708.9	2690.4
2973.2	22.5°	3090.7	3173.4	3154.9	3034.1	2934.1	2812.2	2703.4	2645.8	2625.1	2612.0
3085.3	25°	3202.8	3273.5	3176.7	2992.8	2839.4	2675.1	2591.4	2572.9	2563.1	2553.3
3222.3	27.5°	3348.5	3386.6	3193.0	2931.9	2691.5	2529.4	2498.9	2502.2	2498.9	2482.6
3412.7	30°	3541.1	3533.5	3208.2	2832.9	2521.7	2397.7	2399.9	2414.0	2416.2	2405.3
3678.2	32.5°	3794.6	3717.3	3215.8	2704.5	2359.6	2282.4	2284.6	2299.8	2310.7	2292.2
4025.2	35°	4101.4	3931.6	3203.8	2543.5	2234.5	2172.5	2156.2	2160.6	2163.8	2146.4
4446.2	37.5°	4459.3	4172.1	3150.5	2365.1	2131.2	2064.8	2030.0	2000.6	1983.2	1966.9
4922.7	40°	4852.0	4434.3	3052.6	2191.0	2015.9	1950.6	1898.4	1842.9	1784.1	1762.4
5427.5	42.5°	5263.2	4704.1	2934.1	2024.6	1883.1	1829.8	1774.4	1693.9	1605.7	1561.1
5951.9	45°	5689.7	4980.4	2817.6	1860.3	1747.2	1724.3	1660.1	1563.3	1467.6	1411.0
6477.3	47.5°	6107.4	5241.5	2646.8	1694.9	1619.9	1644.9	1594.9	1505.6	1399.0	1309.8
6998.4	50°	6506.7	5486.3	2367.3	1527.4	1516.5	1621.0	1573.1	1444.7	1322.9	1208.7
7509.7	52.5°	6902.7	5684.2	2009.3	1375.1	1461.0	1614.4	1544.8	1403.4	1254.3	1134.7
7990.6	55°	7238.8	5786.5	1664.5	1244.6	1380.5	1559.0	1511.1	1354.4	1157.5	1030.2
8320.2	57.5°	7430.3	5703.8	1377.3	1116.2	1269.6	1467.6	1453.4	1250.0	1042.2	944.3
8384.4	60°	7347.6	5368.8	1142.3	1004.1	1164.0	1368.6	1353.3	1146.6	954.1	861.6
8040.6	62.5°	6891.8	4730.2	956.3	906.2	1068.3	1267.4	1253.3	1067.2	886.6	797.4
7127.9	65°	5973.6	3847.9	811.6	824.6	971.5	1145.6	1166.2	1000.9	833.3	746.3
5514.5	67.5°	4556.1	2787.2	698.4	753.9	876.8	1025.9	1085.7	953.0	788.7	706.0
3190.8	70°	2596.8	1582.9	602.7	685.4	793.1	914.9	1023.7	914.9	740.9	672.3
1195.6	72.5°	984.5	726.7	521.1	616.8	712.6	821.4	955.2	855.1	685.4	634.2
617.9	75°	525.5	442.8	438.4	536.3	620.1	730.0	869.2	796.3	644.0	670.1
427.5	77.5°	357.9	313.3	366.6	459.1	518.9	628.8	777.8	707.1	558.1	555.9
295.9	80°	248.0	221.9	298.1	369.9	401.4	528.7	678.8	607.0	454.7	424.3
182.8	82.5°	149.0	144.7	223.0	276.3	283.9	408.0	562.4	509.1	372.1	324.2
108.8	85°	81.6	85.9	142.5	162.1	165.4	285.0	440.6	393.8	286.1	240.4
39.2	87.5°	22.8	29.4	52.2	64.2	79.4	148.0	262.2	233.9	143.6	100.1
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>
2681.7
2878.6
3003.7
3039.6
3020.0
2974.3
2911.2
2804.6
2688.2
2614.2
2553.3
2485.8
2410.8
2300.9
2158.4
1977.8
1772.2
1566.6
1406.6
1300.0
1198.9
1121.6
1019.4
931.2
848.6
783.3
732.2
693.0
663.6
625.5
691.9
512.4
405.8
326.4
242.6
100.1
0.0

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