

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: P950730

Luminaire Tested: **GALN-SB5A-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
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-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20321 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

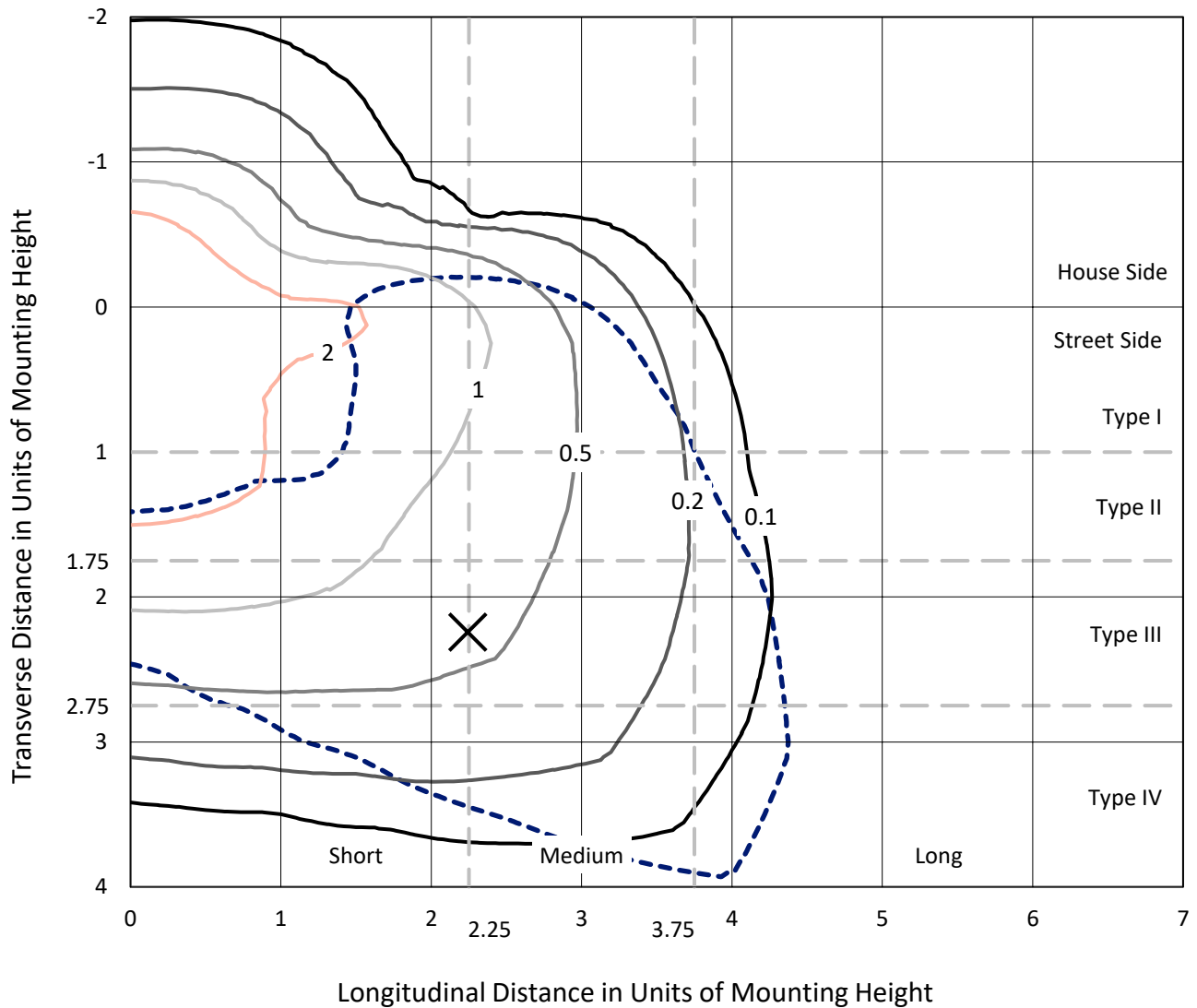
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

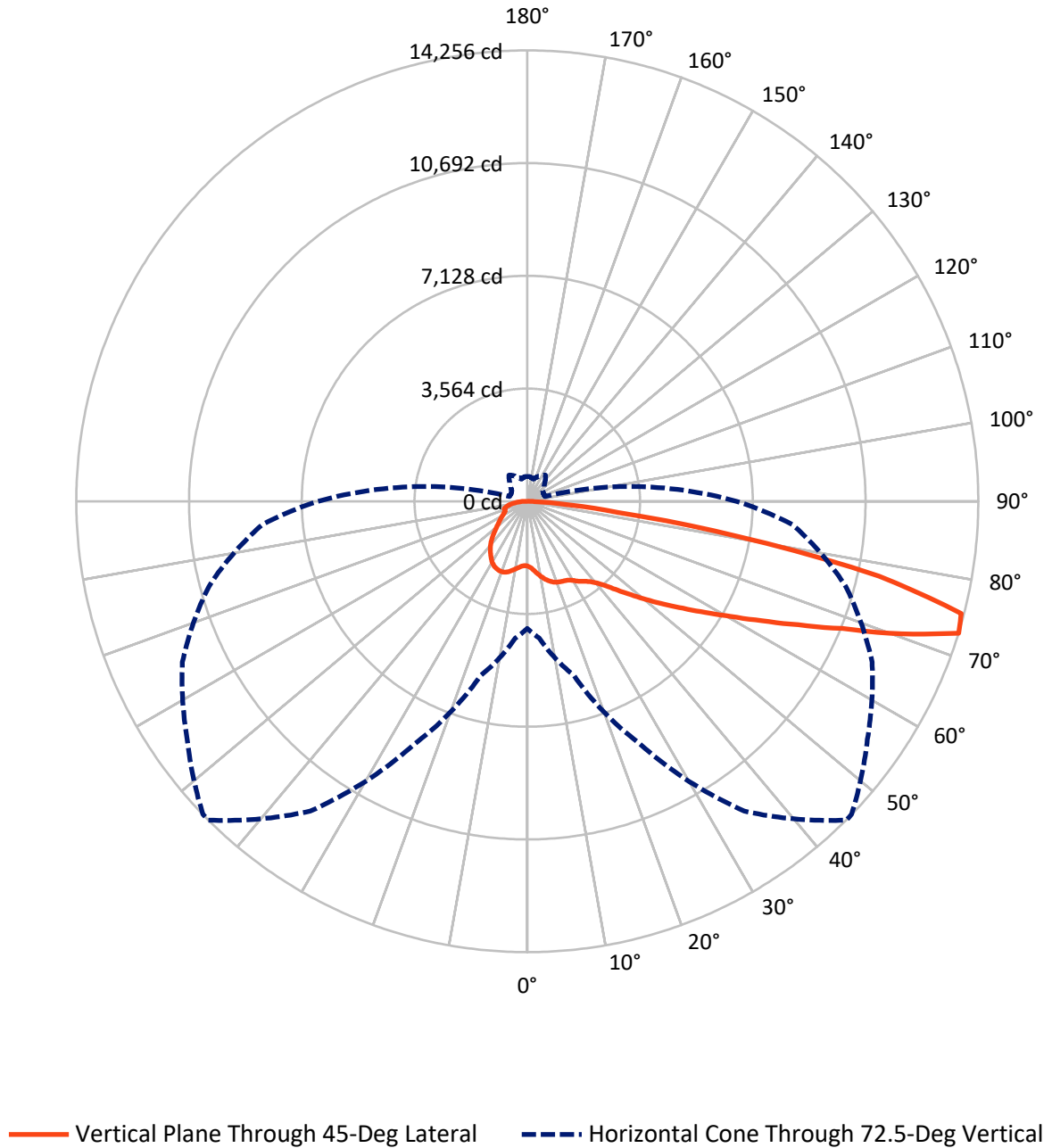
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	4593.9	0.0	4593.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	15727.1	0.0	15727.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	20321.0	0.0	20321.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.6	1.0
10°-20°	695.7	3.4
20°-30°	1210.1	6.0
30°-40°	1734.8	8.5
40°-50°	2442.7	12.0
50°-60°	3741.5	18.4
60°-70°	5420.1	26.7
70°-80°	4328.3	21.3
80°-90°	539.1	2.7
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°	20321.0	100.0
0°-180°	20321.0	100.0



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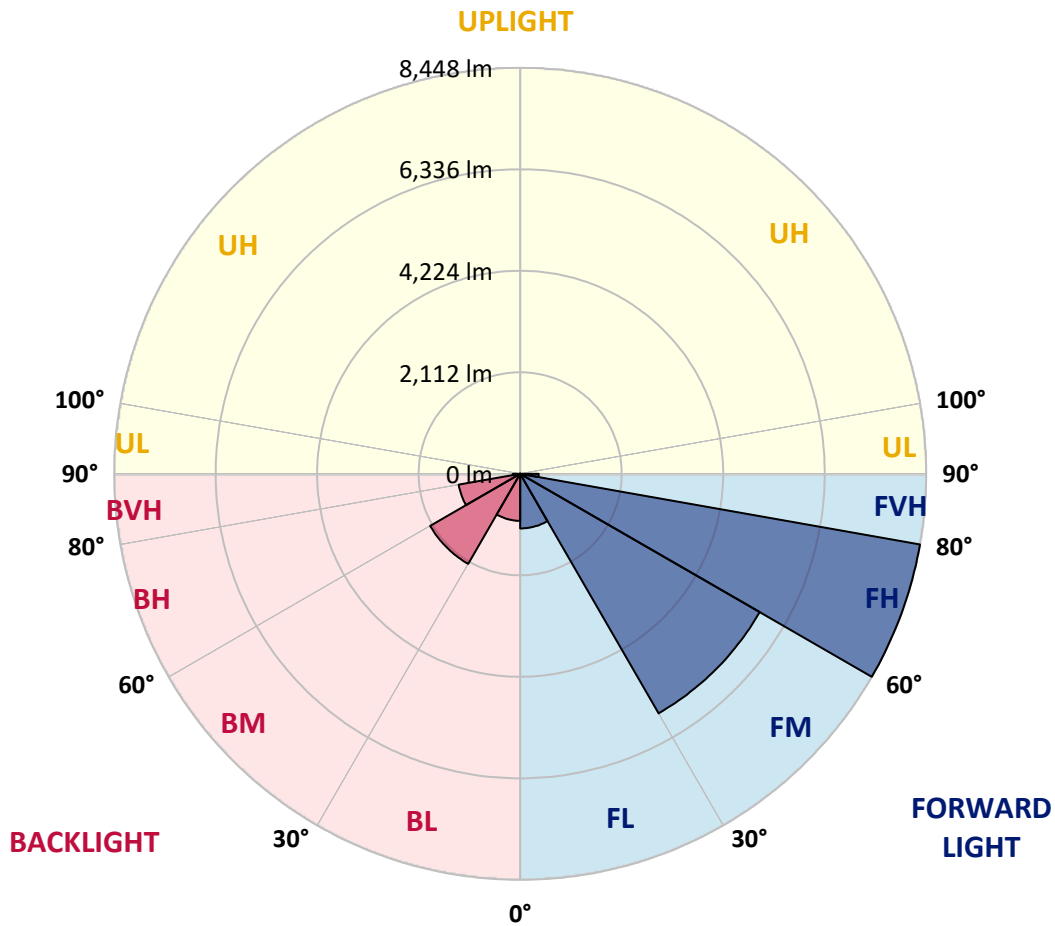
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1136.4	5.6			
FM (30°-60°)	5756.0	28.3			
FH (60°-80°)	8448.0	41.6			G4/12000
FVH (80°-90°)	386.7	1.9			G3/500
BL (0°-30°)	978.1	4.8	B2/1000		
BM (30°-60°)	2163.1	10.6	B2/2500		
BH (60°-80°)	1300.4	6.4	B3/2500		G3/2500
BVH (80°-90°)	152.3	0.7			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°	45°	46°	55°	65°	75°
0°	2050.0	2050.0	2050.0	2050.0	2050.0	2050.0	2050.0	2050.0	2050.0	2050.0
2.5°	2130.3	2144.2	2131.4	2119.6	2114.2	2100.3	2099.2	2090.7	2085.3	2070.3
5°	2279.1	2297.3	2275.9	2252.3	2230.9	2196.7	2192.4	2167.7	2139.9	2107.8
7.5°	2447.1	2463.2	2438.6	2403.3	2365.8	2309.1	2308.0	2263.0	2219.1	2164.5
10°	2593.8	2615.2	2582.0	2533.9	2486.8	2422.5	2415.0	2363.6	2308.0	2237.3
12.5°	2723.3	2738.3	2706.2	2647.3	2592.7	2528.5	2518.9	2462.1	2400.0	2319.8
15°	2826.1	2845.4	2802.5	2739.4	2681.6	2618.4	2609.9	2558.5	2496.4	2411.8
17.5°	2893.5	2909.6	2865.7	2795.1	2739.4	2686.9	2680.5	2637.7	2583.1	2497.5
20°	2919.2	2936.4	2890.3	2818.6	2767.2	2726.5	2723.3	2692.3	2654.8	2576.7
22.5°	2944.9	2961.0	2901.0	2826.1	2781.1	2755.4	2754.4	2734.0	2719.1	2654.8
25°	3048.8	3053.0	2972.8	2864.6	2800.4	2777.9	2776.9	2775.8	2782.2	2731.9
27.5°	3138.7	3137.6	3069.1	2967.4	2867.8	2820.7	2819.7	2830.4	2850.7	2809.0
30°	3270.4	3258.6	3177.2	3071.2	2980.3	2907.5	2901.0	2891.4	2907.5	2874.3
32.5°	3549.8	3512.3	3380.6	3192.2	3073.4	3017.7	3009.2	2949.2	2955.6	2935.3
35°	3950.1	3900.9	3725.3	3421.3	3189.0	3109.8	3105.5	3029.5	3016.6	2998.4
37.5°	4426.5	4365.5	4161.0	3753.1	3388.1	3216.8	3210.4	3141.9	3089.4	3070.2
40°	4905.0	4827.9	4658.8	4157.8	3681.4	3395.6	3375.3	3271.4	3211.5	3179.4
42.5°	5369.6	5305.4	5160.8	4611.7	4043.3	3656.8	3611.8	3434.1	3389.2	3359.2
45°	5780.7	5722.9	5616.9	5096.6	4467.2	4012.2	3968.3	3678.2	3664.3	3664.3
47.5°	6114.7	6101.8	5989.4	5591.2	4967.1	4416.9	4340.8	4017.6	4055.0	4112.8
50°	6485.0	6449.7	6329.8	6078.3	5554.8	4880.4	4818.3	4434.0	4574.2	4732.6
52.5°	6825.5	6844.7	6710.9	6585.7	6218.5	5397.4	5288.2	4925.3	5228.3	5490.6
55°	7175.5	7176.6	7139.1	7122.0	6914.3	5969.1	5849.2	5516.2	5998.0	6323.4
57.5°	7504.2	7506.3	7562.0	7712.9	7721.5	6628.5	6492.5	6242.0	6853.3	7185.1
60°	7797.5	7812.5	7964.5	8317.7	8431.2	7384.3	7255.8	7099.5	7737.5	8071.5
62.5°	7896.0	7950.5	8288.8	8790.9	9132.4	8311.3	8185.0	8091.9	8666.7	8977.2
65°	7729.0	7854.2	8508.3	9181.6	9853.9	9412.8	9287.6	9185.9	9632.3	9924.5
67.5°	7319.0	7480.6	8495.4	9591.6	10729.5	10738.1	10621.4	10382.7	10667.5	10779.9
70°	6238.8	6480.8	7747.2	9744.7	11734.7	12550.5	12438.1	11823.6	11700.5	11156.7
72.5°	4019.7	4345.1	5704.7	8484.7	11958.5	14255.8	14249.3	13124.2	12027.0	10424.5
75°	1466.6	1665.7	2650.5	5325.7	10038.0	14169.0	14210.8	12901.6	10979.0	8052.2
77.5°	534.2	584.5	865.0	2046.8	6173.5	11368.6	11455.3	10314.2	7814.6	4041.1
80°	280.5	308.3	443.2	794.3	2645.2	6751.6	6887.5	6129.6	3672.9	1217.2
82.5°	155.2	168.1	248.4	431.4	1191.5	2887.1	2968.5	2421.5	1292.1	516.0
85°	83.5	88.9	116.7	235.5	582.3	1000.9	1023.4	723.7	514.9	302.9
87.5°	24.6	30.0	38.5	74.9	228.0	224.8	230.2	143.4	203.4	153.1
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°
2050.0	0°	2050.0	2050.0	2050.0	2050.0	2050.0	2050.0	2050.0	2050.0	2050.0	2050.0
2066.1	2.5°	2059.6	2056.4	2044.6	2039.3	2032.9	2031.8	2037.1	2038.2	2039.3	2040.4
2089.6	5°	2078.9	2068.2	2057.5	2051.1	2053.2	2054.3	2065.0	2072.5	2077.8	2082.1
2133.5	7.5°	2116.4	2107.8	2089.6	2088.5	2091.7	2101.4	2115.3	2132.4	2142.1	2149.5
2190.2	10°	2172.0	2156.0	2134.6	2137.8	2144.2	2158.1	2187.0	2200.9	2217.0	2230.9
2259.8	12.5°	2228.8	2214.8	2190.2	2192.4	2203.1	2227.7	2255.5	2272.7	2283.4	2294.1
2334.7	15°	2302.6	2278.0	2251.2	2251.2	2270.5	2297.3	2310.1	2324.0	2330.5	2342.2
2415.0	17.5°	2378.6	2346.5	2311.2	2309.1	2332.6	2345.4	2352.9	2355.1	2357.2	2370.1
2493.2	20°	2454.6	2419.3	2369.0	2364.7	2370.1	2367.9	2366.9	2364.7	2367.9	2384.0
2573.5	22.5°	2529.6	2488.9	2419.3	2400.0	2385.1	2364.7	2363.6	2362.6	2364.7	2380.8
2660.2	25°	2617.4	2568.1	2475.0	2417.2	2366.9	2339.0	2342.2	2343.3	2345.4	2358.3
2750.1	27.5°	2712.6	2658.0	2526.4	2411.8	2320.8	2301.6	2296.2	2299.4	2306.9	2327.3
2840.0	30°	2807.9	2743.7	2573.5	2390.4	2263.0	2236.3	2219.1	2226.6	2250.2	2270.5
2918.2	32.5°	2894.6	2830.4	2610.9	2343.3	2189.2	2147.4	2124.9	2134.6	2158.1	2165.6
3004.9	35°	2996.3	2923.5	2627.0	2268.4	2108.9	2044.6	2014.7	2000.8	2012.5	2005.0
3106.6	37.5°	3109.8	3033.8	2624.8	2169.9	2014.7	1940.8	1899.1	1846.6	1822.0	1796.3
3256.4	40°	3277.8	3168.7	2599.2	2051.1	1898.0	1830.5	1755.6	1666.8	1611.1	1560.8
3498.4	42.5°	3506.9	3356.0	2552.1	1920.5	1766.3	1703.2	1601.5	1497.6	1409.8	1326.3
3865.5	45°	3848.4	3601.1	2493.2	1781.3	1623.9	1561.8	1451.6	1334.9	1235.3	1128.3
4386.9	47.5°	4340.8	3930.8	2437.5	1622.9	1474.1	1417.3	1317.8	1209.7	1091.9	988.1
5140.5	50°	5017.4	4404.0	2386.1	1468.7	1326.3	1283.5	1204.3	1094.0	975.2	891.7
6023.7	52.5°	5878.1	5047.4	2364.7	1319.9	1188.2	1172.2	1109.0	1006.3	893.9	823.2
7053.5	55°	6866.1	5817.1	2364.7	1177.5	1067.3	1072.6	1028.7	933.5	836.1	772.9
8115.4	57.5°	7874.5	6596.4	2321.9	1045.9	964.5	987.0	959.2	875.7	787.9	722.6
9231.9	60°	8803.7	7249.4	2148.5	926.0	873.5	908.8	890.6	818.9	711.9	657.3
10165.4	62.5°	9517.7	7617.6	1814.5	830.7	798.6	839.3	829.6	744.0	698.0	675.5
10931.9	65°	9875.3	7557.7	1387.4	746.1	735.4	798.6	778.2	775.0	738.6	712.9
11181.3	67.5°	9655.8	7041.7	1006.3	684.0	699.0	761.1	839.3	852.1	784.7	734.4
10479.1	70°	8693.5	6108.2	749.3	625.2	653.0	762.2	957.0	891.7	769.7	710.8
8404.4	72.5°	6613.5	4554.9	581.3	563.1	593.1	767.5	1009.5	873.5	726.9	785.7
5235.8	75°	3782.1	2500.7	466.7	487.1	518.1	717.2	982.7	826.4	693.7	721.5
2074.6	77.5°	1442.0	961.3	385.4	412.1	416.4	626.2	939.9	823.2	660.5	644.4
622.0	80°	499.9	375.7	319.0	327.6	322.2	556.7	901.4	716.2	540.6	483.9
256.9	82.5°	204.5	187.3	252.6	241.9	229.1	432.5	727.9	585.6	442.1	390.7
124.2	85°	88.9	118.8	167.0	146.7	132.7	299.7	583.4	495.6	373.6	322.2
40.7	87.5°	18.2	45.0	70.7	66.4	68.5	200.2	414.3	352.2	264.4	198.0
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>
2050.0
2044.6
2084.2
2151.7
2227.7
2298.3
2346.5
2374.4
2390.4
2391.5
2375.4
2347.6
2293.0
2192.4
2028.6
1812.3
1564.0
1318.8
1115.5
976.3
886.4
817.9
766.5
711.9
648.7
668.0
704.4
725.8
701.2
779.3
721.5
587.7
467.8
386.4
321.1
155.2
0.0

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