

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: P952551

Luminaire Tested: **GALN-SB6B-840-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952551  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6B-840-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

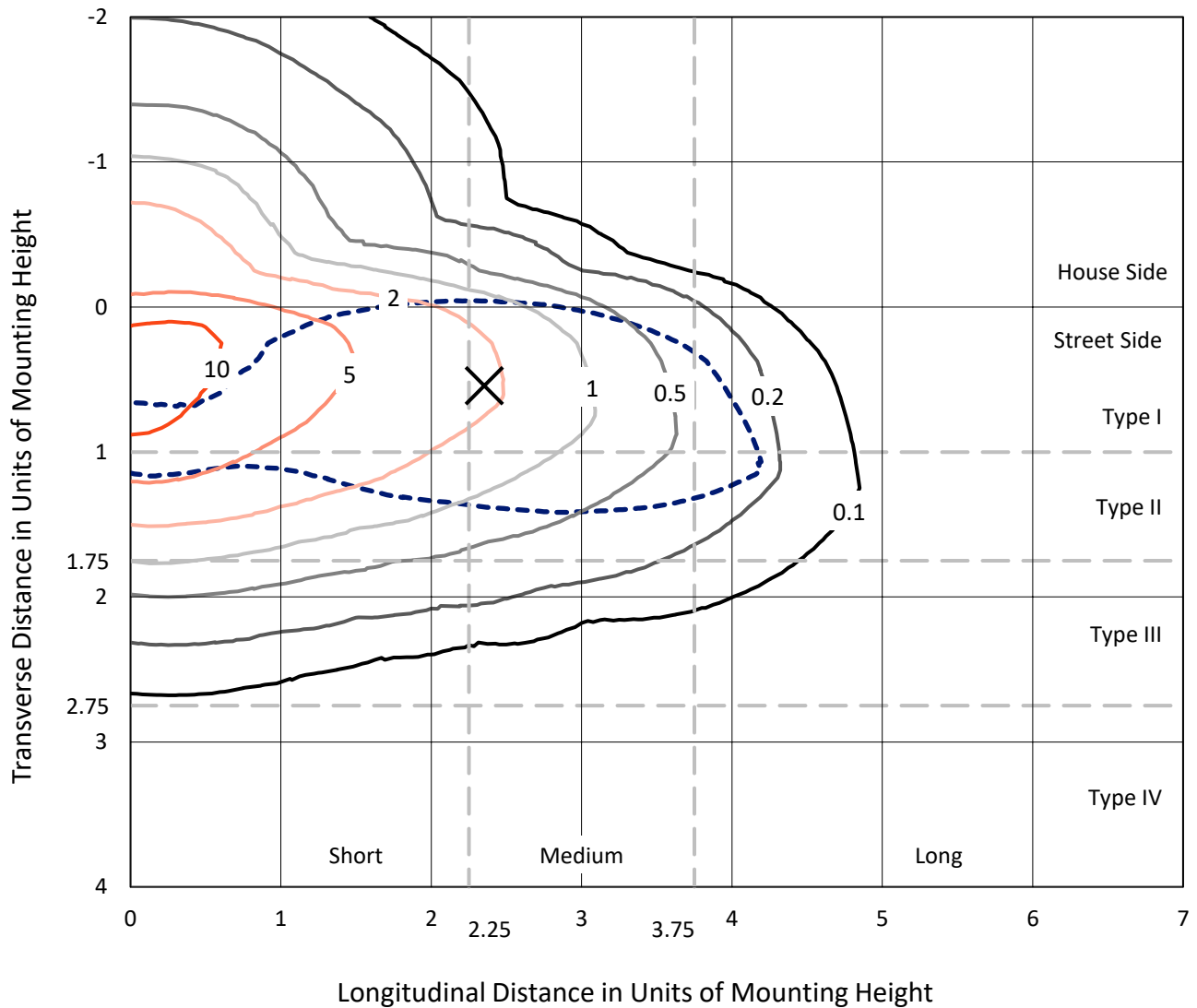
Lumens per Lamp: N/A  
Luminaire Lumens: 33268 lumens  
Efficiency: N/A  
Efficacy: 150.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

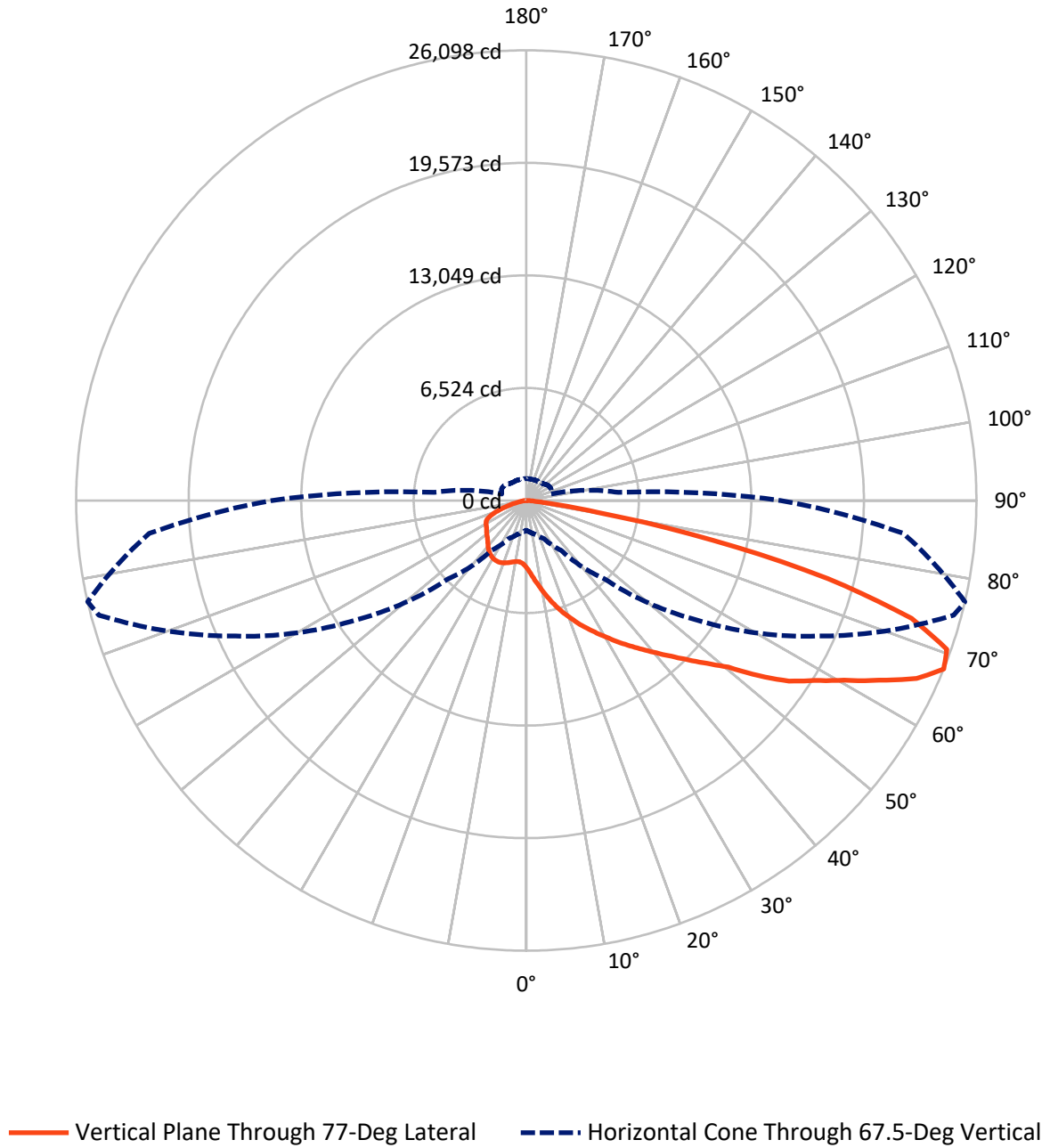
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6293.0	0.0	6293.0
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	26975.0	0.0	26975.0
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	33268.0	0.0	33268.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.4	1.3
10°-20°	1503.1	4.5
20°-30°	2838.0	8.5
30°-40°	4572.0	13.7
40°-50°	6253.6	18.8
50°-60°	7054.1	21.2
60°-70°	6584.2	19.8
70°-80°	3609.2	10.8
80°-90°	435.4	1.3
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°	33268.0	100.0
0°-180°	33268.0	100.0

**Coefficient of Utilization**



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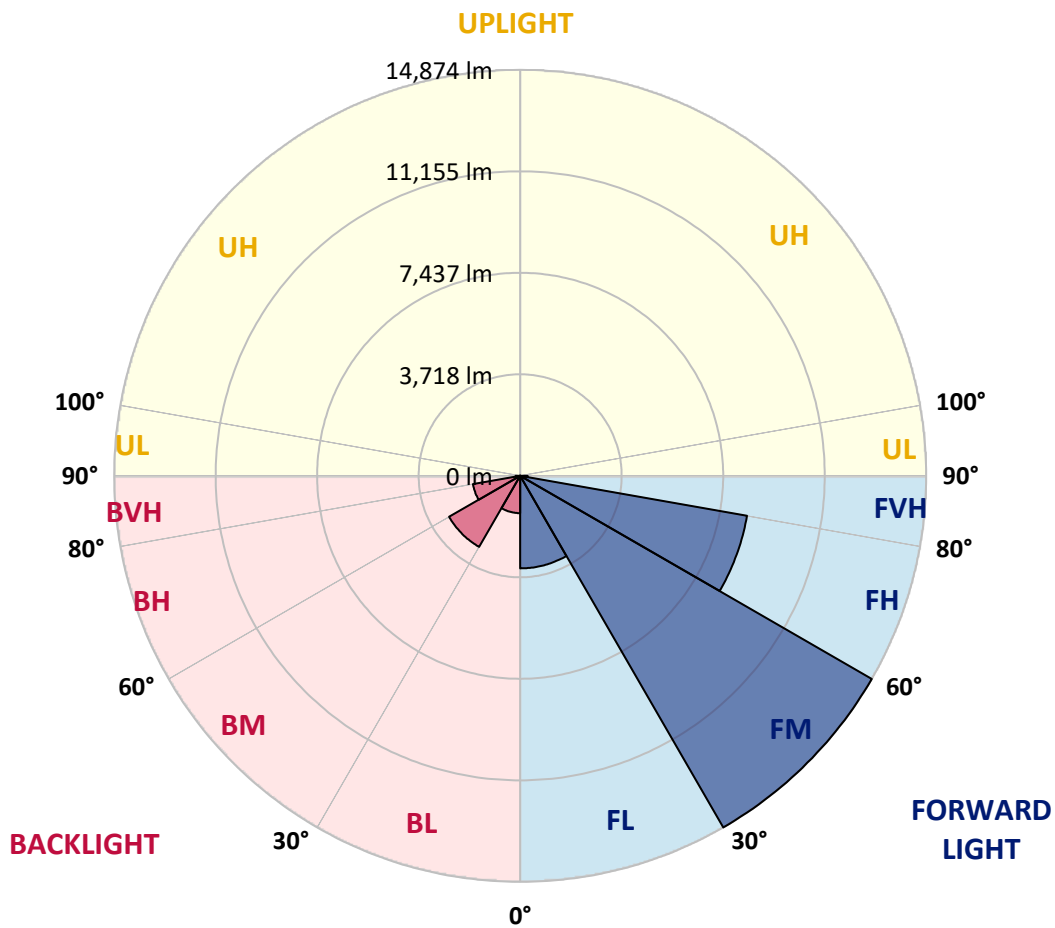
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3391.3	10.2			
FM (30°-60°)	14873.8	44.7			
FH (60°-80°)	8437.8	25.4			G4/12000
FVH (80°-90°)	272.3	0.8			G3/500
BL (0°-30°)	1368.2	4.1	B3/2500		
BM (30°-60°)	3006.0	9.0	B3/5000		
BH (60°-80°)	1755.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	163.1	0.5			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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3903.4	3903.4	3903.4	3903.4	3903.4	3903.4	3903.4	3903.4	3903.4	3903.4
2.5°	4887.4	4921.7	4878.8	4878.8	4734.5	4659.0	4514.7	4404.8	4207.3	4173.0
5°	5776.9	5819.9	5759.7	5734.0	5564.0	5407.7	5165.6	4926.9	4574.8	4538.8
7.5°	6465.5	6520.5	6467.3	6439.8	6288.7	6113.5	5830.2	5497.0	5000.7	4930.3
10°	7027.1	7035.7	7018.5	7028.8	6910.3	6766.1	6475.9	6087.7	5467.8	5371.6
12.5°	7344.8	7384.3	7418.6	7480.5	7459.8	7370.6	7109.5	6645.9	5962.4	5838.7
15°	7494.2	7562.9	7640.2	7782.7	7897.8	7920.1	7720.9	7245.2	6465.5	6316.1
17.5°	7547.4	7612.7	7734.6	7940.7	8188.0	8354.6	8265.3	7827.3	6963.6	6791.8
20°	7817.0	7835.9	7909.8	8105.5	8373.4	8649.9	8716.9	8387.2	7456.4	7262.4
22.5°	8394.0	8356.3	8376.9	8466.2	8658.5	8926.4	9079.2	8881.8	7963.0	7739.8
25°	9347.1	9237.2	9127.3	9024.3	9122.2	9273.3	9446.7	9376.3	8493.7	8210.3
27.5°	10550.9	10417.0	10174.9	9836.6	9718.1	9771.3	9848.6	9834.8	8984.8	8698.0
30°	11735.9	11579.6	11291.1	10801.7	10489.1	10348.3	10289.9	10250.4	9518.9	9213.2
32.5°	12682.1	12558.4	12275.1	11727.3	11273.9	11033.5	10839.5	10698.6	10077.0	9771.3
35°	13509.8	13394.8	13070.2	12472.6	11979.7	11723.8	11469.7	11169.2	10657.4	10348.3
37.5°	14265.4	14150.4	13705.6	13083.9	12587.6	12410.8	12184.1	11674.0	11239.6	10947.6
40°	14742.8	14717.1	14301.5	13597.4	13082.2	12994.6	12919.1	12259.6	11885.3	11613.9
42.5°	14864.7	14921.4	14591.7	14013.0	13521.8	13451.4	13628.3	12922.5	12610.0	12350.7
45°	14571.1	14734.2	14517.9	14124.6	13834.4	13796.6	14256.8	13647.2	13411.9	13174.9
47.5°	13827.5	14104.0	14014.7	13959.7	13918.5	14081.7	14809.8	14416.5	14320.4	14114.3
50°	12326.6	12850.4	13006.7	13353.5	13752.0	14303.2	15313.0	15256.3	15381.6	15173.9
52.5°	9731.8	10453.1	11359.8	12228.7	13240.2	14229.4	15865.9	16461.8	16990.7	16877.4
55°	8033.4	8358.0	9055.2	10648.8	12247.6	13918.5	16114.9	17435.5	18587.8	18486.5
57.5°	6728.3	7018.5	7447.8	8778.7	10746.7	13212.7	16269.5	18029.7	19681.7	19671.4
60°	5328.7	5636.1	6075.7	7018.5	8993.4	11993.5	16235.1	18706.3	21077.9	21163.7
62.5°	3748.8	4087.1	4574.8	5454.1	7202.3	10413.6	15534.5	19195.7	22721.3	22954.8
65°	2464.3	2687.5	3055.0	3814.1	5366.5	8382.0	14196.7	19259.3	24479.8	24874.8
67.5°	1727.6	1813.4	2029.8	2442.0	3537.6	6427.8	12065.6	18601.5	25652.7	26097.5
70°	1348.1	1391.0	1500.9	1665.8	2222.2	4322.4	9245.8	16891.1	25402.0	25865.6
72.5°	1164.3	1205.5	1246.7	1267.4	1490.6	2668.6	6262.9	14122.9	23040.7	23355.0
75°	1056.1	1066.4	1100.8	1093.9	1136.8	1731.0	3614.9	10289.9	18179.1	18070.9
77.5°	887.8	901.6	958.2	949.7	1009.8	1183.2	1877.0	6640.7	11785.7	11050.7
80°	752.2	759.0	820.9	810.6	877.5	856.9	958.2	3384.8	4999.0	4234.8
82.5°	261.0	322.8	626.8	645.7	669.7	518.6	553.0	1380.7	1526.7	1169.5
85°	127.1	135.7	319.4	453.4	451.6	261.0	269.6	492.9	480.8	377.8
87.5°	20.6	25.8	37.8	176.9	140.8	68.7	92.7	96.2	99.6	85.9
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°
3903.4	0°	3903.4	3903.4	3903.4	3903.4	3903.4	3903.4	3903.4	3903.4	3903.4	3903.4
4042.5	2.5°	3946.3	3860.4	3680.1	3513.5	3383.0	3257.7	3187.3	3127.2	3092.8	3085.9
4231.4	5°	4052.8	3875.9	3547.9	3271.4	3091.1	2957.2	2886.7	2842.1	2819.8	2806.0
4485.5	7.5°	4205.6	3946.3	3479.2	3164.9	2976.0	2879.9	2843.8	2836.9	2835.2	2836.9
4792.9	10°	4416.8	4061.4	3472.3	3139.2	2981.2	2928.0	2926.2	2928.0	2934.8	2936.5
5127.8	12.5°	4645.2	4179.9	3499.8	3161.5	3046.4	3017.3	3012.1	3010.4	3015.5	3019.0
5466.1	15°	4894.2	4336.1	3546.2	3209.6	3118.6	3087.7	3082.5	3072.2	3070.5	3068.8
5821.6	17.5°	5150.1	4490.7	3597.7	3261.1	3164.9	3122.0	3103.1	3079.1	3060.2	3055.0
6189.1	20°	5409.4	4643.5	3633.8	3286.9	3168.4	3108.3	3070.5	3029.3	2996.6	2977.8
6560.0	22.5°	5685.9	4803.2	3656.1	3280.0	3137.5	3055.0	2986.3	2938.3	2888.5	2855.8
6934.4	25°	5955.5	4942.3	3654.4	3243.9	3077.4	2972.6	2885.0	2823.2	2754.5	2720.2
7320.8	27.5°	6214.8	5067.7	3611.4	3180.4	2991.5	2874.7	2770.0	2696.1	2629.2	2596.5
7710.6	30°	6482.7	5172.4	3544.5	3087.7	2890.2	2761.4	2646.3	2582.8	2522.7	2491.8
8122.7	32.5°	6748.9	5268.6	3450.0	2972.6	2773.4	2649.8	2536.4	2478.0	2442.0	2442.0
8565.8	35°	7030.5	5335.6	3324.6	2838.7	2649.8	2531.3	2442.0	2407.6	2404.2	2383.6
9034.6	37.5°	7327.6	5378.5	3171.8	2701.3	2527.8	2416.2	2388.7	2347.5	2313.2	2268.5
9549.8	40°	7640.2	5421.4	2988.1	2558.7	2399.0	2337.2	2325.2	2270.2	2172.4	2062.4
10133.6	42.5°	8019.7	5450.6	2797.4	2416.2	2263.4	2242.8	2259.9	2165.5	2009.2	1926.8
10837.7	45°	8459.3	5498.7	2622.3	2275.4	2124.3	2124.3	2196.4	2072.8	1944.0	1892.4
11641.4	47.5°	9029.4	5610.3	2459.1	2120.8	1995.5	2029.8	2055.6	1961.1	1889.0	1825.5
12620.3	50°	9853.7	5878.2	2290.8	1964.6	1897.6	1966.3	1930.2	1875.3	1791.1	1739.6
14176.1	52.5°	10877.2	6036.2	2141.4	1823.7	1813.4	1882.1	1830.6	1779.1	1715.6	1646.9
15355.9	55°	11574.4	6065.4	2016.1	1720.7	1756.8	1749.9	1731.0	1684.6	1650.3	1559.3
16520.2	57.5°	12354.1	6123.8	1913.0	1658.9	1720.7	1645.2	1638.3	1598.8	1554.1	1492.3
17940.4	60°	13286.6	6214.8	1823.7	1634.8	1689.8	1576.5	1542.1	1526.7	1482.0	1451.1
19649.1	62.5°	14303.2	6297.3	1732.7	1638.3	1653.7	1509.5	1458.0	1452.8	1425.3	1415.0
21253.0	65°	14997.0	6072.3	1619.4	1634.8	1597.1	1440.8	1375.5	1373.8	1351.5	1348.1
21948.5	67.5°	14754.8	5359.6	1466.6	1586.8	1538.7	1372.1	1300.0	1293.1	1263.9	1265.6
21222.1	70°	13542.4	4343.0	1255.3	1468.3	1466.6	1310.3	1221.0	1198.7	1159.2	1166.0
18452.1	72.5°	11268.8	3218.2	972.0	1270.8	1351.5	1253.6	1130.0	1093.9	1044.1	1051.0
13621.4	75°	8138.2	2187.8	707.5	966.8	1176.3	1186.6	1040.7	978.8	918.7	929.0
7581.8	77.5°	4164.4	1239.9	520.3	666.3	923.9	1078.4	960.0	877.5	863.8	960.0
2186.1	80°	1358.4	621.7	360.6	467.1	606.2	882.7	841.5	747.0	743.6	765.9
458.5	82.5°	405.3	262.7	231.8	307.4	334.9	676.6	726.4	565.0	486.0	511.7
152.8	85°	139.1	127.1	132.2	152.8	159.7	396.7	508.3	374.4	353.8	389.8
34.3	87.5°	32.6	44.6	37.8	34.3	34.3	96.2	197.5	156.3	216.4	144.3
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

<u>180°</u>
3903.4
3085.9
2804.3
2842.1
2938.3
3020.7
3067.1
3060.2
2984.6
2857.5
2720.2
2594.8
2490.1
2443.7
2378.4
2261.7
2047.0
1928.5
1901.0
1823.7
1734.4
1633.1
1561.0
1471.7
1459.7
1415.0
1346.3
1265.6
1172.9
1049.3
932.5
946.2
657.7
528.9
384.7
139.1
0.0

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