

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: P947778

Luminaire Tested: **GALN-SB3A-740-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947778  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3A-740-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

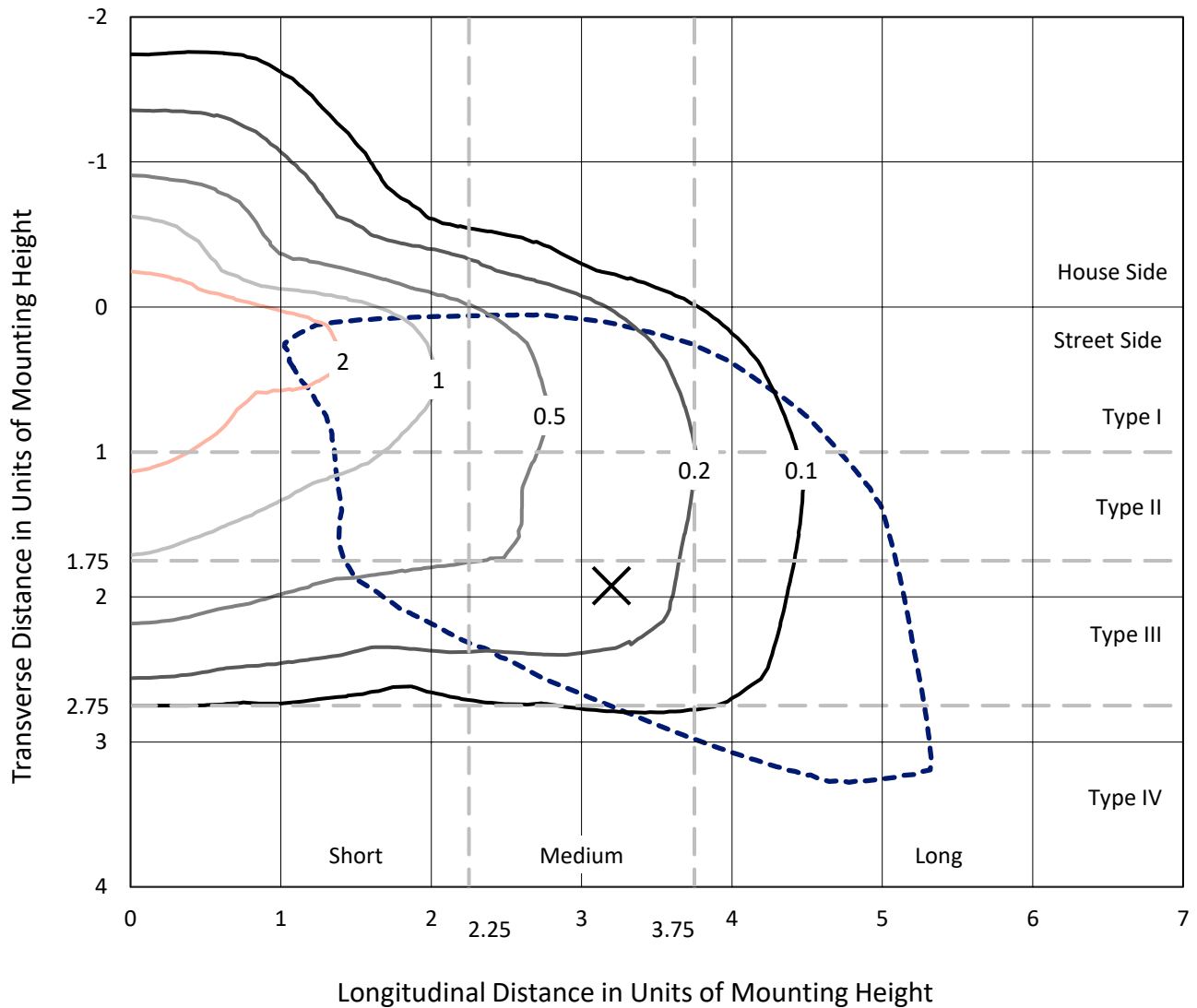
Lumens per Lamp: N/A  
Luminaire Lumens: 13916 lumens  
Efficiency: N/A  
Efficacy: 164.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

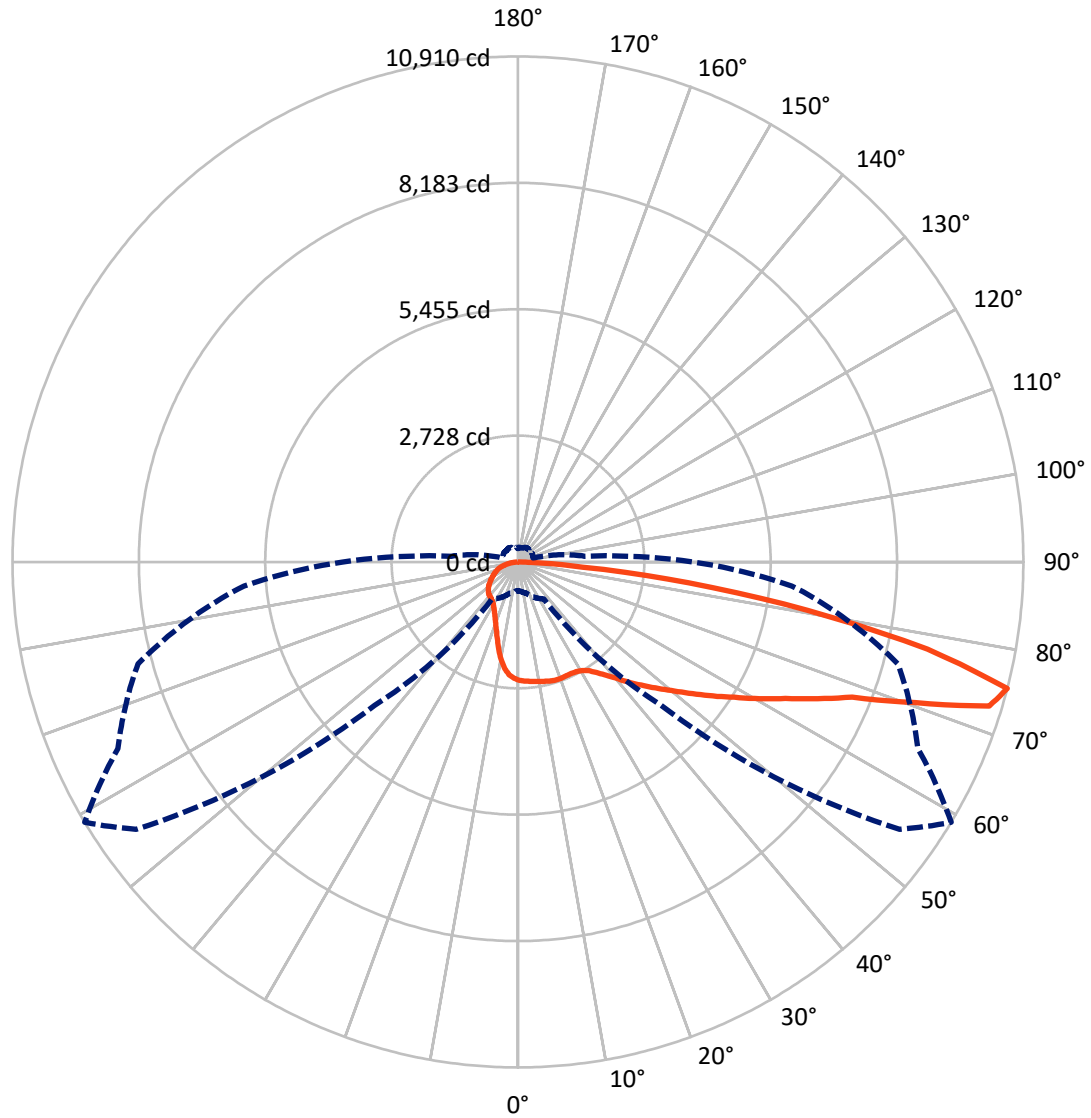
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2610.0	0.0	2610.0
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	11306.0	0.0	11306.0
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	13916.0	0.0	13916.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.0	1.6
10°-20°	585.4	4.2
20°-30°	889.2	6.4
30°-40°	1321.8	9.5
40°-50°	1965.7	14.1
50°-60°	2668.2	19.2
60°-70°	3257.4	23.4
70°-80°	2556.4	18.4
80°-90°	442.8	3.2
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°	13916.0	100.0
0°-180°	13916.0	100.0

**Coefficient of Utilization**



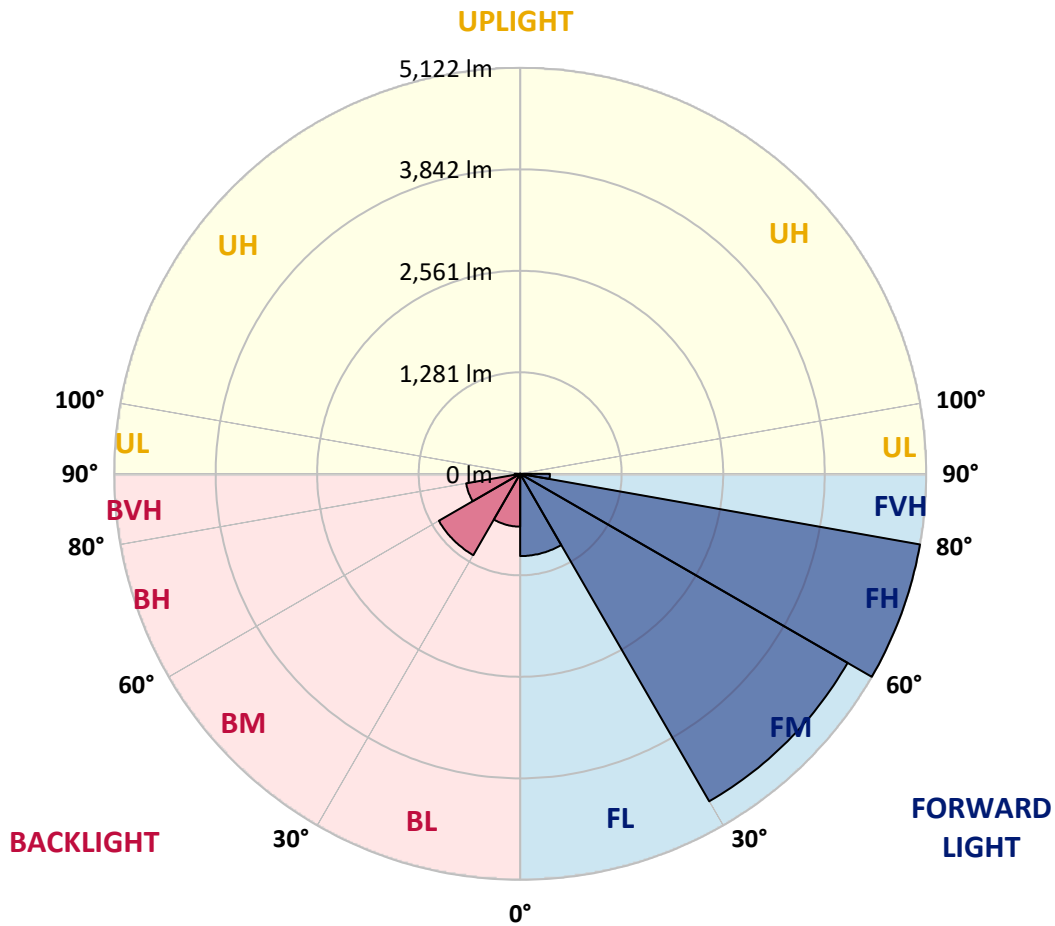
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1037.6	7.5			
FM (30°-60°)	4771.0	34.3			
FH (60°-80°)	5122.3	36.8			G3/7500
FVH (80°-90°)	375.0	2.7			G3/500
BL (0°-30°)	666.1	4.8	B2/1000		
BM (30°-60°)	1184.7	8.5	B2/2500		
BH (60°-80°)	691.5	5.0	B2/1000		G2/1000
BVH (80°-90°)	67.8	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-G3**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3
2.5°	2576.0	2567.0	2576.0	2572.2	2570.7	2567.7	2568.5	2573.7	2570.7	2574.5
5°	2558.7	2553.5	2562.5	2560.2	2570.0	2571.5	2581.2	2587.2	2590.9	2591.7
7.5°	2530.3	2525.1	2537.8	2548.3	2569.2	2575.2	2595.4	2605.2	2610.4	2619.4
10°	2426.2	2424.0	2455.4	2495.1	2544.5	2575.2	2605.9	2622.4	2630.6	2654.6
12.5°	2242.1	2245.1	2286.2	2362.6	2461.4	2560.2	2617.9	2641.8	2654.6	2684.5
15°	2066.2	2065.4	2110.3	2191.9	2330.4	2494.4	2623.9	2665.0	2686.8	2730.9
17.5°	1964.3	1961.4	1992.8	2054.9	2183.7	2393.3	2608.9	2677.8	2724.2	2779.6
20°	1945.6	1939.6	1956.1	1986.8	2078.1	2282.5	2570.0	2677.8	2754.1	2826.0
22.5°	2013.8	2004.0	1997.3	1993.5	2034.0	2191.2	2525.8	2668.8	2798.3	2892.6
25°	2150.8	2135.8	2101.3	2067.7	2055.7	2150.0	2486.9	2666.5	2864.2	2982.5
27.5°	2372.3	2353.6	2284.0	2203.2	2130.5	2171.0	2469.7	2680.0	2936.8	3077.5
30°	2647.1	2626.9	2539.3	2415.0	2284.8	2248.8	2491.4	2719.7	3029.6	3204.0
32.5°	2893.4	2870.9	2796.1	2669.5	2493.6	2383.6	2560.2	2795.3	3175.6	3380.0
35°	3112.0	3085.8	3018.4	2901.6	2749.6	2573.0	2684.5	2929.3	3383.0	3665.9
37.5°	3326.1	3295.4	3222.0	3098.5	2992.2	2825.2	2855.9	3101.5	3658.4	4013.3
40°	3565.6	3521.5	3432.4	3310.3	3207.0	3120.9	3081.3	3312.6	3938.4	4401.1
42.5°	3797.7	3755.8	3649.5	3545.4	3415.9	3391.2	3342.5	3559.6	4244.6	4827.0
45°	4047.7	3997.6	3868.8	3737.1	3655.5	3570.9	3595.6	3806.7	4544.8	5261.2
47.5°	4282.0	4225.9	4073.9	3927.2	3882.3	3722.1	3827.6	4078.4	4857.0	5701.4
50°	4408.6	4353.2	4226.6	4094.1	4059.0	3908.5	4079.2	4377.1	5184.1	6140.1
52.5°	4514.1	4454.2	4288.8	4215.4	4204.9	4111.4	4389.1	4718.5	5511.3	6527.9
55°	4626.4	4559.8	4348.7	4282.8	4330.7	4338.9	4756.7	5105.5	5857.1	6905.9
57.5°	4755.9	4671.3	4406.3	4339.7	4453.5	4605.4	5178.9	5506.8	6197.0	7256.3
60°	4877.9	4792.6	4517.1	4430.3	4586.0	4914.6	5663.2	5992.6	6581.8	7568.4
62.5°	4901.9	4831.5	4605.4	4604.7	4765.6	5275.4	6236.7	6482.9	6917.9	7876.9
65°	4487.2	4443.0	4309.0	4598.0	5023.2	5795.0	6875.2	7110.3	7345.3	8146.4
67.5°	3415.2	3421.1	3411.4	3969.1	4815.0	6541.3	7799.7	7781.8	7873.1	8448.8
70°	1561.6	1596.8	1825.9	2739.9	3857.6	6627.4	9328.4	9095.6	8535.6	8840.3
72.5°	843.7	870.6	964.2	1327.3	2319.2	5892.3	10470.8	10636.2	9416.7	9103.8
75°	619.1	634.1	699.2	843.7	973.9	4379.4	10061.3	10910.2	9526.8	8489.2
77.5°	463.4	470.1	523.3	668.5	498.6	2308.7	8039.3	9035.7	8155.3	6974.8
80°	336.1	343.6	383.3	501.6	349.6	844.4	5520.2	6342.2	5585.4	4446.0
82.5°	232.1	235.1	252.3	341.4	244.0	327.9	3132.2	3719.1	3118.0	1560.1
85°	140.0	143.7	151.2	199.1	138.5	155.7	1352.0	1398.4	932.0	372.8
87.5°	57.6	61.4	67.4	83.8	54.6	43.4	223.1	280.0	174.4	109.3
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°
2554.3	0°	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3
2561.7	2.5°	2558.0	2552.8	2538.5	2519.1	2501.1	2478.6	2468.9	2460.7	2453.2	2439.0
2581.9	5°	2573.7	2559.5	2521.3	2471.9	2415.8	2354.4	2294.5	2253.3	2218.1	2191.9
2605.2	7.5°	2597.7	2570.7	2501.1	2400.0	2271.3	2139.5	2020.5	1935.9	1872.3	1849.1
2638.1	10°	2622.4	2590.2	2468.9	2290.7	2068.4	1865.5	1707.6	1620.7	1569.8	1553.4
2677.0	12.5°	2651.6	2604.4	2418.8	2138.8	1841.6	1619.2	1481.5	1430.6	1404.4	1395.4
2724.9	15°	2694.2	2616.4	2343.1	1948.6	1625.2	1439.6	1350.5	1315.3	1301.8	1301.1
2774.3	17.5°	2726.4	2618.6	2225.6	1745.0	1459.0	1331.0	1257.7	1244.2	1253.2	1266.6
2823.0	20°	2762.4	2598.4	2071.4	1559.4	1342.3	1236.0	1205.3	1214.2	1236.0	1255.4
2887.4	22.5°	2787.8	2561.7	1885.0	1414.9	1241.2	1181.3	1179.8	1198.5	1210.5	1220.2
2963.0	25°	2810.3	2499.6	1687.4	1293.6	1158.1	1148.4	1164.8	1158.8	1150.6	1158.8
3038.6	27.5°	2826.7	2401.5	1510.7	1187.3	1099.7	1125.9	1116.2	1102.7	1102.0	1106.4
3127.7	30°	2821.5	2270.5	1365.5	1086.2	1058.5	1084.0	1060.8	1058.5	1056.3	1058.5
3261.7	32.5°	2821.5	2121.6	1253.9	1016.6	1032.3	1022.6	1020.4	1015.1	1006.1	1005.4
3443.6	35°	2837.2	1972.6	1158.1	979.2	1010.6	987.4	988.9	976.2	957.5	948.5
3684.6	37.5°	2869.4	1852.8	1063.0	961.2	972.4	971.7	965.7	944.0	911.1	882.6
3985.6	40°	2947.3	1817.6	997.9	953.0	954.5	963.5	947.7	905.8	831.0	784.5
4291.0	42.5°	3069.3	1876.8	983.7	932.8	942.5	951.5	920.8	823.5	770.3	742.6
4611.4	45°	3224.3	1980.1	1014.4	903.6	914.1	929.8	838.4	792.0	768.1	768.8
4928.8	47.5°	3420.4	2088.6	1071.3	878.1	872.9	881.9	783.8	755.3	722.4	730.6
5233.5	50°	3647.2	2198.7	1125.2	843.7	827.2	798.0	748.6	721.7	679.7	660.3
5527.7	52.5°	3892.8	2305.0	1146.9	801.8	777.8	744.1	724.7	691.7	640.8	608.6
5805.5	55°	4125.6	2401.5	1122.9	751.6	728.4	702.2	699.2	679.0	624.3	579.4
6052.5	57.5°	4345.7	2482.4	1063.0	700.7	678.2	662.5	682.7	673.0	604.1	546.5
6286.1	60°	4532.1	2537.8	976.2	649.0	633.3	625.1	655.8	652.8	575.7	511.3
6495.7	62.5°	4680.3	2559.5	880.4	599.6	595.9	580.9	618.4	618.4	539.7	476.9
6679.8	65°	4796.3	2538.5	783.0	551.0	558.5	536.0	572.7	568.2	501.6	446.2
6891.7	67.5°	4898.9	2469.7	675.2	503.1	520.3	491.8	524.8	514.3	459.6	415.5
7075.1	70°	4944.6	2309.5	552.5	455.2	476.1	448.4	476.9	457.4	412.5	382.5
6873.7	72.5°	4577.7	1919.4	434.9	405.0	423.0	400.5	425.2	402.8	361.6	348.1
5935.7	75°	3787.2	1440.3	334.6	350.3	363.8	346.6	363.1	346.6	309.2	318.9
4384.6	77.5°	2750.4	972.4	256.0	292.7	298.7	289.7	303.9	285.2	251.5	249.3
2185.2	80°	1367.7	569.7	200.6	231.3	229.1	223.1	239.6	230.6	202.1	214.1
589.9	82.5°	396.0	244.0	146.0	162.4	158.0	159.5	171.4	175.9	263.5	261.3
183.4	85°	124.3	95.8	87.6	90.6	86.1	88.3	101.1	200.6	185.7	108.5
56.9	87.5°	32.2	32.9	21.7	23.2	24.0	28.4	32.2	122.0	58.4	38.2
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>
2554.3
2432.2
2170.2
1808.6
1527.9
1397.7
1304.1
1271.9
1262.2
1225.5
1164.1
1113.9
1066.8
1015.1
957.5
892.3
790.5
742.6
772.6
751.6
665.5
607.9
579.4
543.5
509.1
474.6
443.2
412.5
376.5
336.9
291.2
238.1
211.9
267.3
117.5
40.4
0.0

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