

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: P949731

Luminaire Tested: **GALN-SB4B-927-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949731  
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-SB4B-927-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

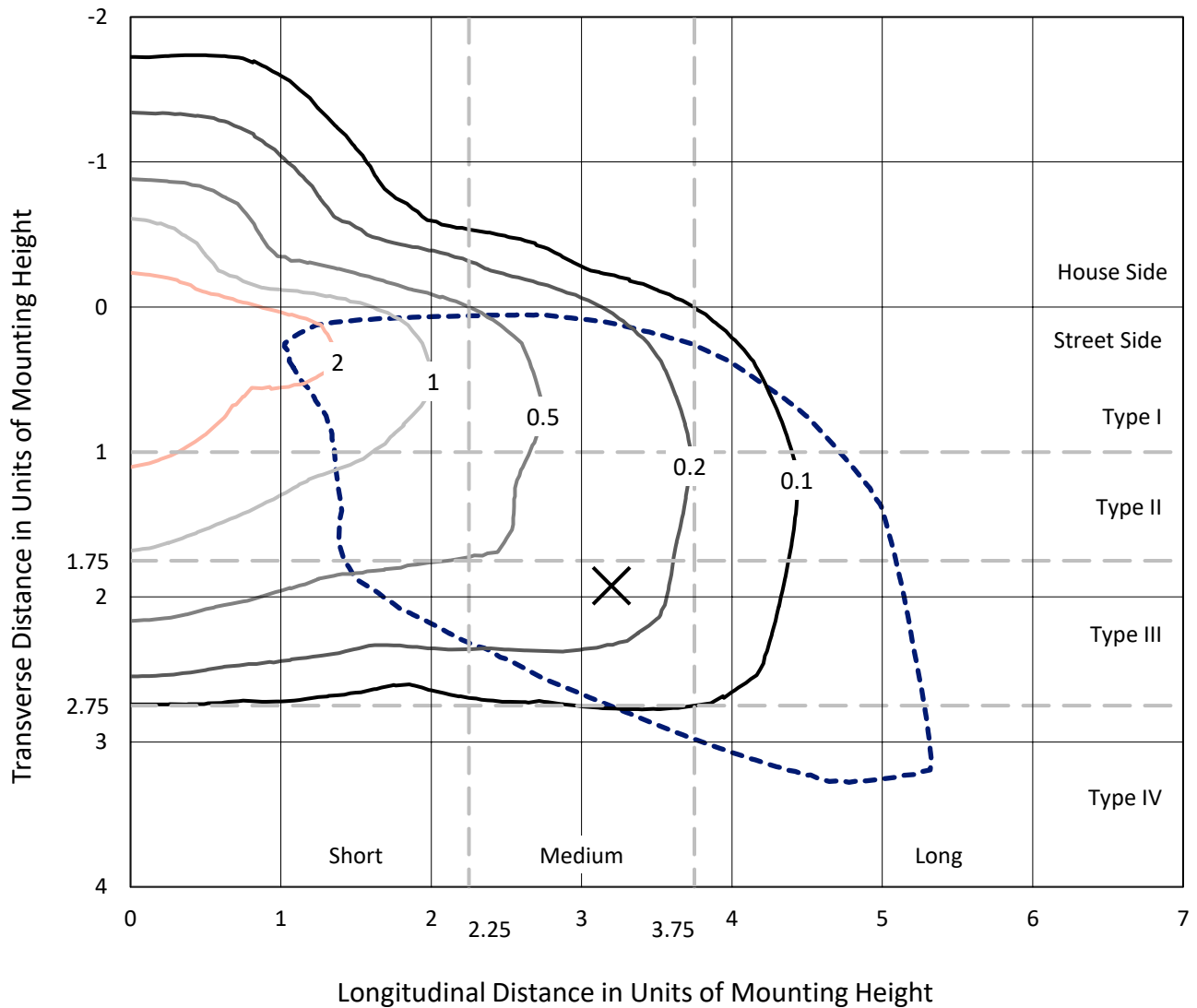
Lumens per Lamp: N/A  
Luminaire Lumens: 13426 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

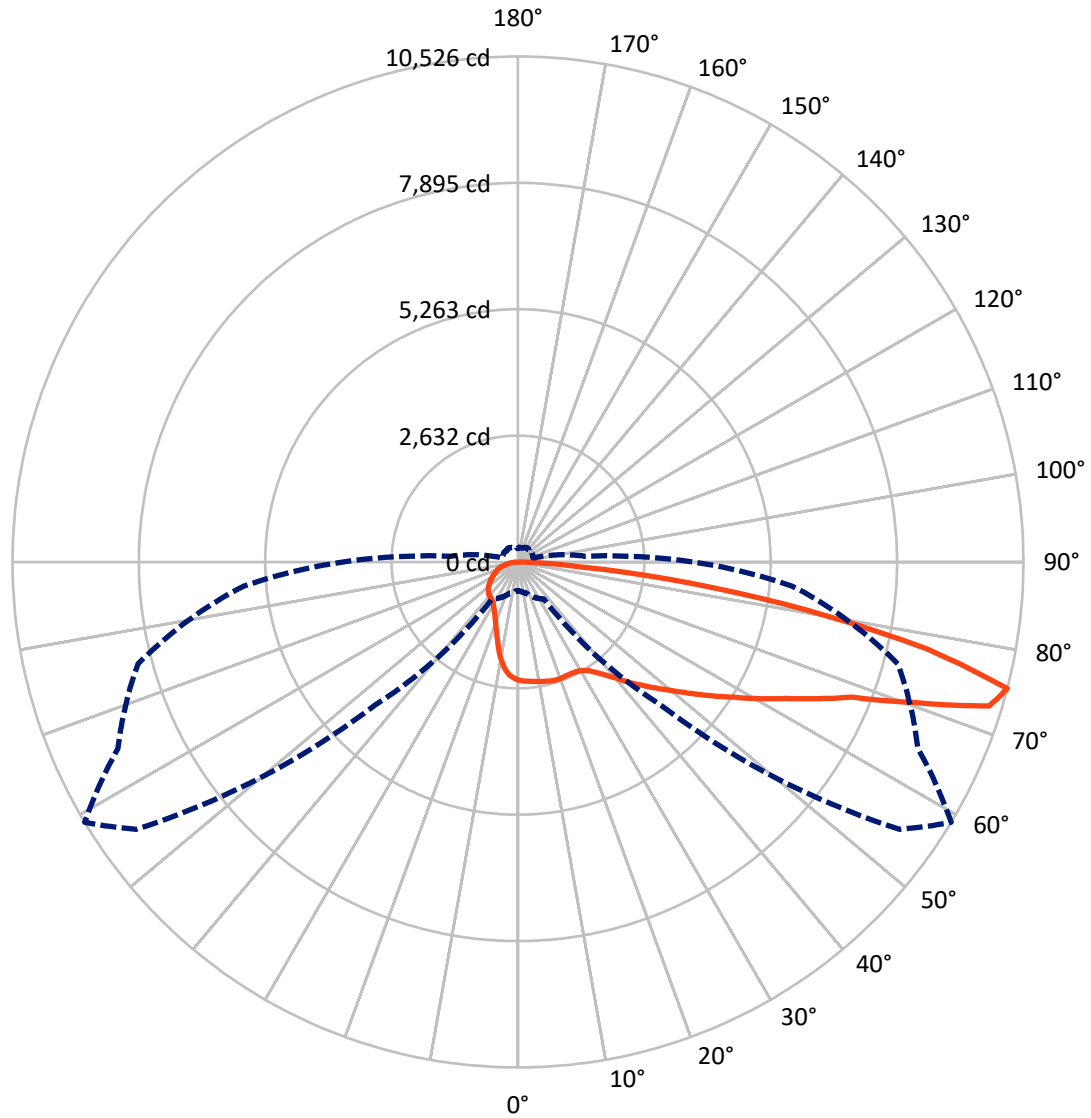
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	2518.1	0.0	2518.1
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	10907.9	0.0	10907.9
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	13426.0	0.0	13426.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.0	1.6
10°-20°	564.8	4.2
20°-30°	857.9	6.4
30°-40°	1275.2	9.5
40°-50°	1896.5	14.1
50°-60°	2574.3	19.2
60°-70°	3142.8	23.4
70°-80°	2466.4	18.4
80°-90°	427.2	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°	13426.0	100.0
0°-180°	13426.0	100.0

**Coefficient of Utilization**



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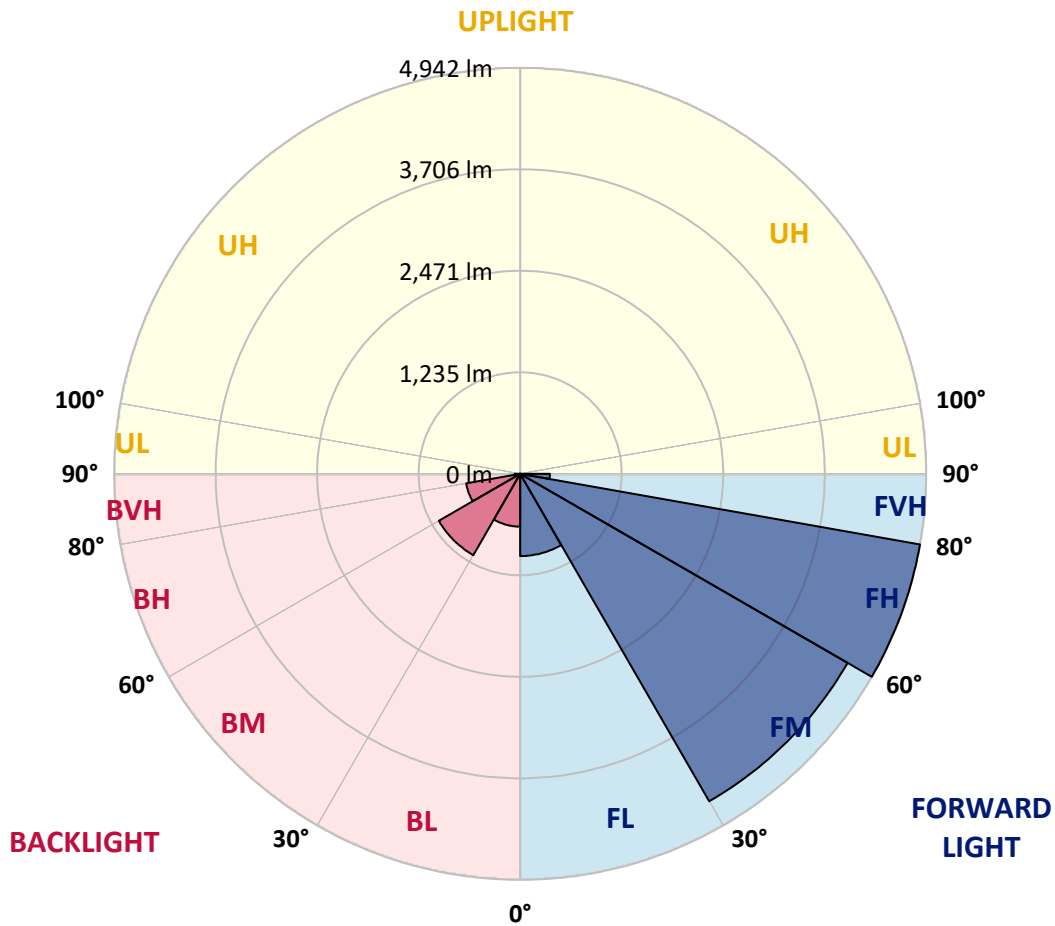
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1001.1	7.5			
FM (30°-60°)	4603.0	34.3			
FH (60°-80°)	4942.0	36.8			G2/5000
FVH (80°-90°)	361.8	2.7			G3/500
BL (0°-30°)	642.6	4.8	B2/1000		
BM (30°-60°)	1143.0	8.5	B2/2500		
BH (60°-80°)	667.2	5.0	B2/1000		G2/1000
BVH (80°-90°)	65.4	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°	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3
2.5°	2485.3	2476.6	2485.3	2481.6	2480.2	2477.3	2478.0	2483.1	2480.2	2483.8
5°	2468.6	2463.6	2472.3	2470.1	2479.5	2480.9	2490.3	2496.1	2499.7	2500.4
7.5°	2441.2	2436.1	2448.4	2458.5	2478.8	2484.5	2504.0	2513.4	2518.5	2527.1
10°	2340.8	2338.6	2369.0	2407.3	2454.9	2484.5	2514.1	2530.0	2538.0	2561.1
12.5°	2163.1	2166.0	2205.7	2279.4	2374.8	2470.1	2525.7	2548.8	2561.1	2590.0
15°	1993.4	1992.7	2036.0	2114.7	2248.4	2406.5	2531.5	2571.2	2592.2	2634.8
17.5°	1895.2	1892.3	1922.6	1982.6	2106.8	2309.0	2517.0	2583.5	2628.3	2681.7
20°	1877.1	1871.3	1887.2	1916.8	2005.0	2202.1	2479.5	2583.5	2657.2	2726.5
22.5°	1942.8	1933.5	1927.0	1923.3	1962.3	2114.0	2436.9	2574.8	2699.8	2790.8
25°	2075.0	2060.6	2027.4	1994.9	1983.3	2074.3	2399.3	2572.6	2763.3	2877.4
27.5°	2288.8	2270.7	2203.6	2125.6	2055.5	2094.5	2382.7	2585.7	2833.4	2969.2
30°	2553.9	2534.4	2449.9	2330.0	2204.3	2169.6	2403.6	2623.9	2922.9	3091.2
32.5°	2791.5	2769.8	2697.6	2575.5	2405.8	2299.6	2470.1	2696.9	3063.8	3261.0
35°	3002.4	2977.1	2912.1	2799.4	2652.8	2482.4	2590.0	2826.2	3263.8	3536.9
37.5°	3209.0	3179.3	3108.6	2989.4	2886.8	2725.8	2755.4	2992.3	3529.6	3872.0
40°	3440.1	3397.5	3311.5	3193.8	3094.1	3011.1	2972.8	3196.0	3799.8	4246.1
42.5°	3664.0	3623.5	3521.0	3420.6	3295.6	3271.8	3224.8	3434.3	4095.1	4657.1
45°	3905.2	3856.8	3732.6	3605.5	3526.7	3445.1	3469.0	3672.6	4384.8	5076.0
47.5°	4131.3	4077.1	3930.5	3788.9	3745.6	3591.0	3692.9	3934.8	4685.9	5500.6
50°	4253.3	4199.9	4077.8	3950.0	3916.0	3770.9	3935.5	4223.0	5001.6	5923.9
52.5°	4355.2	4297.4	4137.8	4067.0	4056.9	3966.6	4234.5	4552.3	5317.2	6298.0
55°	4463.5	4399.2	4195.5	4132.0	4178.2	4186.2	4589.2	4925.7	5650.9	6662.7
57.5°	4588.4	4506.8	4251.2	4186.9	4296.7	4443.3	4996.5	5312.9	5978.8	7000.8
60°	4706.2	4623.8	4358.0	4274.3	4424.5	4741.6	5463.8	5781.6	6350.0	7301.9
62.5°	4729.3	4661.4	4443.3	4442.6	4597.8	5089.7	6017.1	6254.7	6674.3	7599.5
65°	4329.2	4286.5	4157.3	4436.1	4846.3	5590.9	6633.1	6859.9	7086.7	7859.5
67.5°	3294.9	3300.7	3291.3	3829.4	4645.5	6311.0	7525.1	7507.8	7595.9	8151.3
70°	1506.6	1540.6	1761.6	2643.4	3721.7	6394.1	8999.9	8775.3	8235.1	8529.0
72.5°	814.0	840.0	930.3	1280.5	2237.5	5684.8	10102.1	10261.7	9085.2	8783.3
75°	597.3	611.7	674.6	814.0	939.6	4225.2	9707.0	10526.1	9191.3	8190.3
77.5°	447.1	453.6	504.9	645.0	481.0	2227.4	7756.2	8717.5	7868.2	6729.2
80°	324.3	331.5	369.8	483.9	337.3	814.7	5325.9	6118.9	5388.7	4289.4
82.5°	223.9	226.8	243.4	329.3	235.5	316.3	3021.9	3588.1	3008.2	1505.2
85°	135.1	138.7	145.9	192.1	133.6	150.2	1304.4	1349.2	899.2	359.7
87.5°	55.6	59.2	65.0	80.9	52.7	41.9	215.2	270.1	168.3	105.4
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°
2464.3	0°	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3
2471.5	2.5°	2467.9	2462.9	2449.1	2430.4	2413.0	2391.4	2382.0	2374.0	2366.8	2353.1
2491.0	5°	2483.1	2469.4	2432.5	2384.9	2330.7	2271.5	2213.7	2174.0	2140.0	2114.7
2513.4	7.5°	2506.2	2480.2	2413.0	2315.5	2191.3	2064.2	1949.3	1867.7	1806.3	1784.0
2545.2	10°	2530.0	2499.0	2382.0	2210.1	1995.6	1799.8	1647.4	1563.7	1514.6	1498.7
2582.8	12.5°	2558.2	2512.7	2333.6	2063.5	1776.7	1562.2	1429.3	1380.2	1354.9	1346.3
2629.0	15°	2599.4	2524.3	2260.6	1880.0	1568.0	1388.9	1302.9	1269.0	1256.0	1255.3
2676.7	17.5°	2630.4	2526.4	2147.2	1683.6	1407.7	1284.2	1213.4	1200.4	1209.0	1222.0
2723.6	20°	2665.1	2506.9	1998.5	1504.4	1295.0	1192.4	1162.8	1171.5	1192.4	1211.2
2785.7	22.5°	2689.7	2471.5	1818.6	1365.0	1197.5	1139.7	1138.3	1156.3	1167.9	1177.3
2858.7	25°	2711.3	2411.6	1627.9	1248.0	1117.3	1107.9	1123.8	1118.0	1110.1	1118.0
2931.6	27.5°	2727.2	2317.0	1457.5	1145.5	1061.0	1086.3	1076.9	1063.9	1063.2	1067.5
3017.6	30°	2722.2	2190.6	1317.4	1048.0	1021.3	1045.8	1023.4	1021.3	1019.1	1021.3
3146.8	32.5°	2722.2	2046.9	1209.8	980.8	996.0	986.6	984.4	979.4	970.7	970.0
3322.3	35°	2737.3	1903.1	1117.3	944.7	975.0	952.6	954.1	941.8	923.8	915.1
3554.9	37.5°	2768.4	1787.6	1025.6	927.4	938.2	937.5	931.7	910.8	879.0	851.5
3845.3	40°	2843.5	1753.6	962.8	919.4	920.9	929.5	914.4	873.9	801.7	756.9
4139.9	42.5°	2961.2	1810.7	949.0	899.9	909.3	918.0	888.4	794.5	743.2	716.5
4449.1	45°	3110.7	1910.3	978.6	871.8	881.9	897.0	808.9	764.1	741.0	741.7
4755.3	47.5°	3300.0	2015.1	1033.5	847.2	842.1	850.8	756.2	728.7	697.0	704.9
5049.2	50°	3518.8	2121.2	1085.5	814.0	798.1	769.9	722.2	696.2	655.8	637.0
5333.1	52.5°	3755.7	2223.8	1106.5	773.5	750.4	717.9	699.1	667.4	618.2	587.2
5601.0	55°	3980.3	2317.0	1083.4	725.1	702.7	677.5	674.6	655.1	602.4	559.0
5839.4	57.5°	4192.7	2395.0	1025.6	676.0	654.4	639.2	658.7	649.3	582.9	527.2
6064.7	60°	4372.5	2448.4	941.8	626.2	611.0	603.1	632.7	629.8	555.4	493.3
6267.0	62.5°	4515.5	2469.4	849.4	578.5	574.9	560.5	596.6	596.6	520.7	460.1
6444.6	65°	4627.4	2449.1	755.5	531.6	538.8	517.1	552.5	548.2	483.9	430.5
6649.0	67.5°	4726.4	2382.7	651.5	485.4	502.0	474.5	506.3	496.2	443.5	400.8
6826.0	70°	4770.5	2228.1	533.0	439.1	459.4	432.6	460.1	441.3	398.0	369.1
6631.7	72.5°	4416.6	1851.8	419.6	390.7	408.1	386.4	410.2	388.6	348.8	335.8
5726.7	75°	3653.9	1389.6	322.8	338.0	351.0	334.4	350.3	334.4	298.3	307.7
4230.2	77.5°	2653.5	938.2	247.0	282.4	288.2	279.5	293.2	275.2	242.7	240.5
2108.2	80°	1319.5	549.6	193.6	223.2	221.0	215.2	231.1	222.5	195.0	206.6
569.1	82.5°	382.1	235.5	140.8	156.7	152.4	153.8	165.4	169.7	254.2	252.1
177.0	85°	119.9	92.4	84.5	87.4	83.1	85.2	97.5	193.6	179.1	104.7
54.9	87.5°	31.1	31.8	20.9	22.4	23.1	27.4	31.1	117.7	56.3	36.8
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>
2464.3
2346.6
2093.8
1745.0
1474.1
1348.4
1258.2
1227.1
1217.7
1182.3
1123.1
1074.7
1029.2
979.4
923.8
860.9
762.7
716.5
745.4
725.1
642.1
586.5
559.0
524.4
491.1
457.9
427.6
398.0
363.3
325.0
<i>281.0</i>
229.7
204.4
257.8
113.4
39.0
0.0

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