

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: P939324

Luminaire Tested: **GALN-SB1D-840-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939324  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-840-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

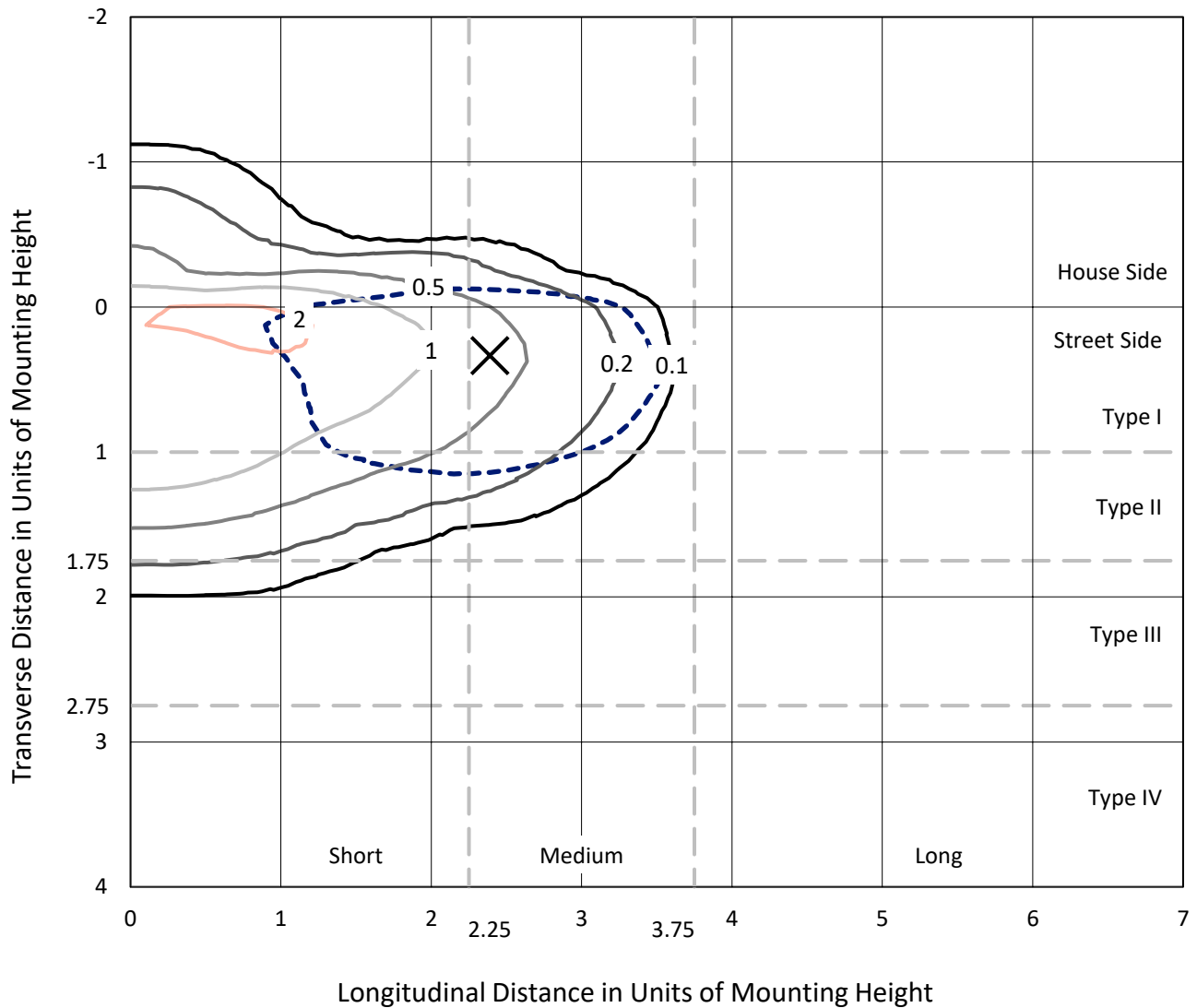
Lumens per Lamp: N/A  
Luminaire Lumens: 7110 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

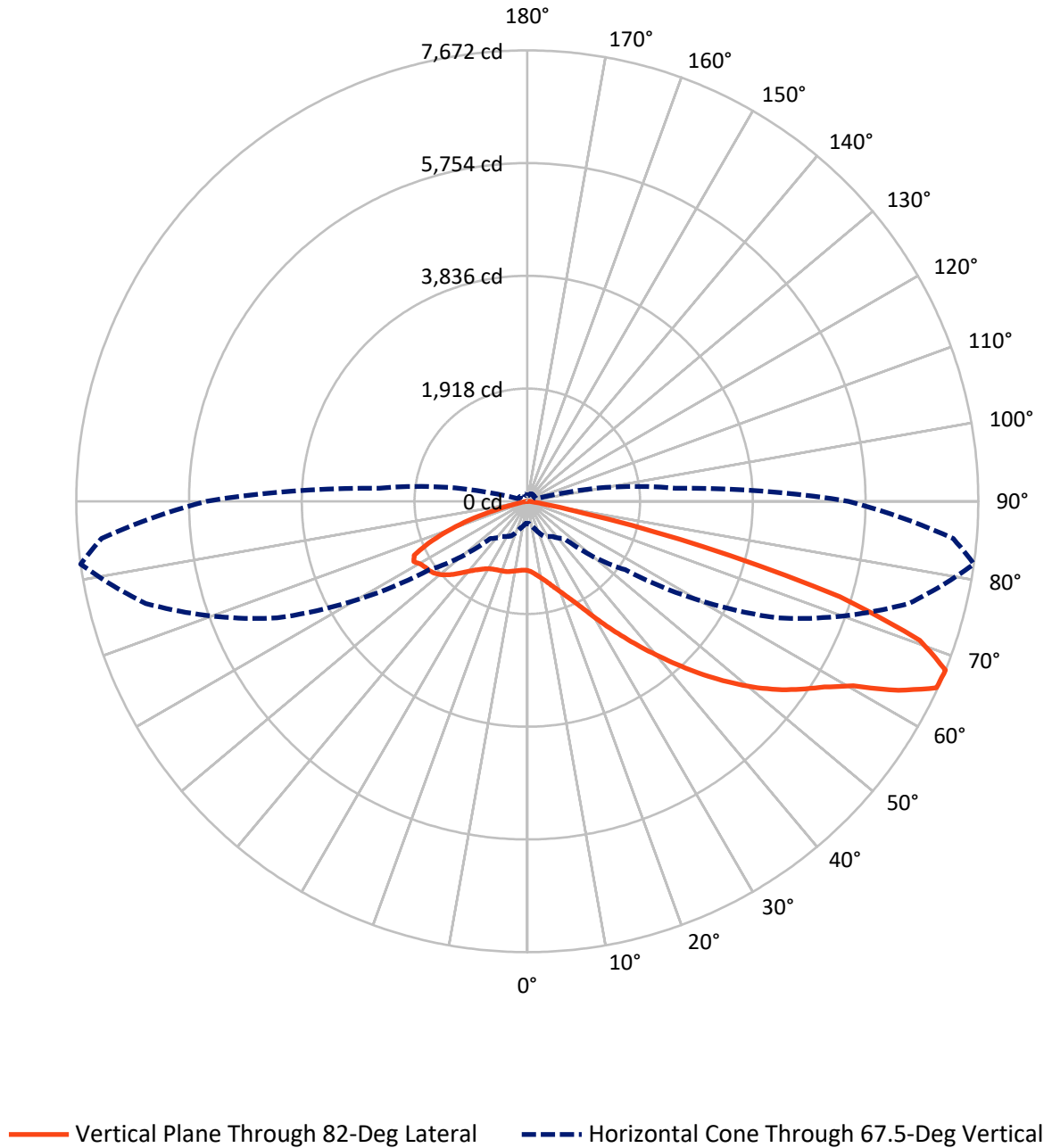
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	1287.9	0.0	1287.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	5822.1	0.0	5822.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	7110.0	0.0	7110.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.9	1.5
10°-20°	272.7	3.8
20°-30°	436.8	6.1
30°-40°	772.4	10.9
40°-50°	1353.2	19.0
50°-60°	1804.8	25.4
60°-70°	1680.2	23.6
70°-80°	644.9	9.1
80°-90°	40.0	0.6
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°	7110.0	100.0
0°-180°	7110.0	100.0

**Coefficient of Utilization**



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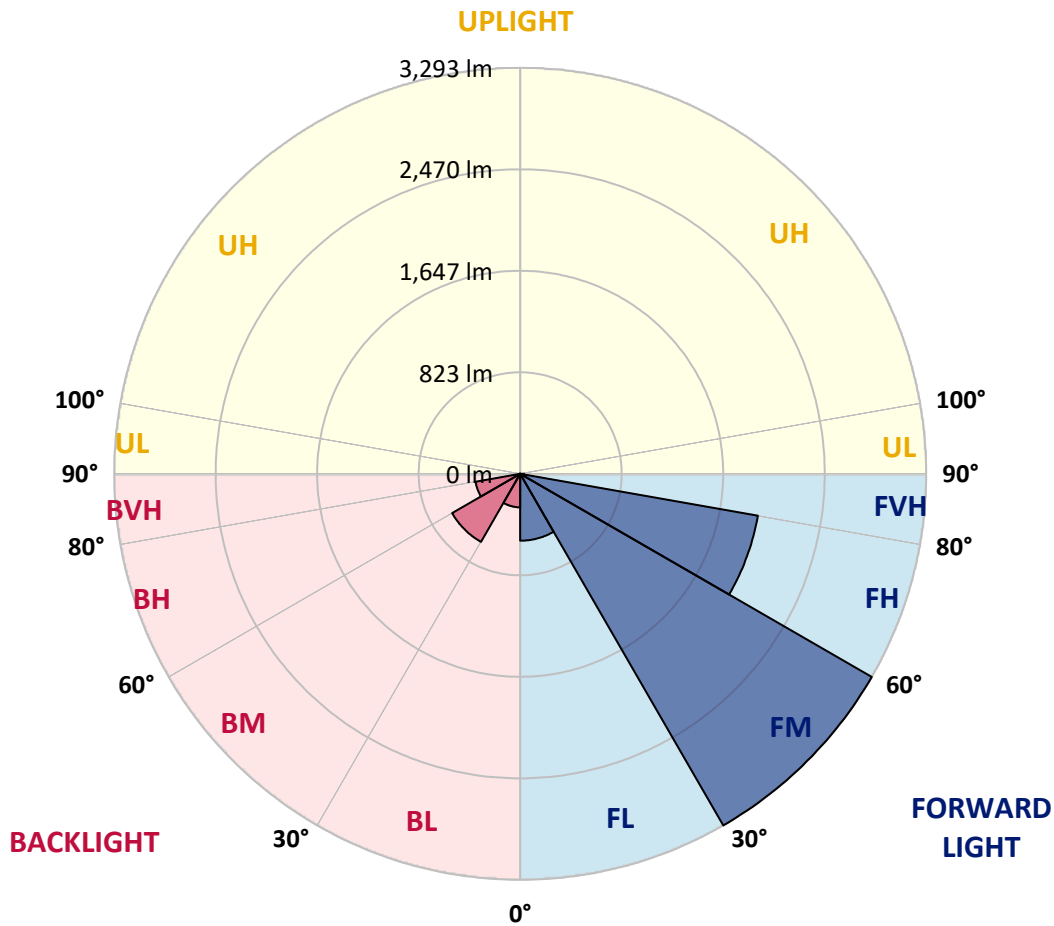
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	542.4	7.6			
FM (30°-60°)	3293.1	46.3			
FH (60°-80°)	1957.5	27.5			G2/5000
FVH (80°-90°)	29.1	0.4			G1/100
BL (0°-30°)	272.0	3.8	B1/500		
BM (30°-60°)	637.4	9.0	B1/1000		
BH (60°-80°)	367.6	5.2	B1/500		G1/500
BVH (80°-90°)	10.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1177.9	1177.9	1177.9	1177.9	1177.9	1177.9	1177.9	1177.9	1177.9	1177.9
2.5°	1244.9	1252.1	1248.0	1246.0	1242.4	1237.3	1233.2	1220.4	1207.1	1198.4
5°	1270.0	1277.2	1276.7	1278.7	1281.3	1282.8	1281.8	1267.5	1248.5	1233.7
7.5°	1248.5	1256.7	1263.4	1273.6	1291.5	1310.5	1319.7	1316.6	1297.2	1276.7
10°	1187.6	1196.3	1212.2	1236.2	1274.1	1315.1	1349.4	1365.2	1353.0	1330.4
12.5°	1076.0	1084.7	1115.9	1168.2	1231.6	1302.8	1368.3	1410.8	1413.9	1391.3
15°	950.6	959.3	992.6	1058.1	1154.9	1269.0	1378.6	1458.9	1486.1	1466.6
17.5°	872.8	880.5	905.6	958.3	1059.1	1201.4	1375.0	1510.1	1572.1	1556.7
20°	849.2	855.9	867.7	904.5	988.5	1131.3	1351.4	1558.2	1664.7	1656.0
22.5°	874.3	880.5	884.1	900.4	953.2	1085.2	1321.7	1607.4	1772.2	1773.2
25°	932.2	938.3	934.2	944.5	967.5	1070.9	1310.5	1665.2	1907.3	1918.6
27.5°	1027.4	1027.9	1018.2	1017.7	1021.2	1092.4	1322.2	1727.2	2077.8	2098.8
30°	1218.3	1210.6	1173.3	1132.8	1114.4	1156.9	1355.0	1800.4	2279.0	2316.4
32.5°	1512.7	1501.4	1432.8	1336.1	1238.8	1260.8	1413.9	1883.8	2498.1	2565.7
35°	1832.1	1829.0	1757.4	1613.5	1443.6	1408.8	1509.6	1993.3	2737.1	2844.6
37.5°	2129.0	2127.5	2086.5	1917.1	1710.3	1615.1	1663.2	2136.7	2993.1	3148.7
40°	2400.3	2404.9	2364.0	2212.4	2004.1	1879.7	1872.0	2313.8	3277.7	3479.9
42.5°	2634.8	2639.9	2598.4	2486.3	2294.3	2172.5	2128.5	2530.8	3555.7	3835.7
45°	2794.0	2825.7	2819.6	2730.0	2592.3	2465.8	2436.7	2803.2	3872.5	4213.0
47.5°	2839.0	2868.2	2914.3	2926.5	2842.6	2718.2	2753.0	3131.3	4193.0	4590.7
50°	2727.9	2755.1	2850.8	2978.2	3036.6	2998.2	3060.7	3483.0	4521.1	4967.5
52.5°	2508.8	2536.5	2657.3	2859.0	3097.0	3217.8	3369.3	3829.5	4839.0	5324.3
55°	2192.0	2221.1	2376.2	2604.6	2981.8	3308.4	3626.8	4175.6	5130.3	5645.3
57.5°	1760.9	1782.4	1943.7	2263.1	2692.1	3218.3	3816.7	4553.4	5404.7	5960.6
60°	1147.7	1166.6	1354.0	1710.3	2211.9	2917.3	3854.6	4974.7	5769.1	6370.6
62.5°	763.2	776.0	887.1	1148.7	1557.7	2339.4	3633.0	5311.0	6303.6	7084.2
65°	523.7	536.5	647.6	829.8	1006.4	1547.5	2995.7	5266.4	6787.8	7650.9
67.5°	373.7	384.4	478.6	650.6	728.4	898.9	2030.7	4697.2	6718.2	7672.4
70°	267.7	273.9	351.7	506.8	579.0	540.1	1129.3	3592.5	5882.3	7084.7
72.5°	187.4	189.4	244.2	386.0	466.3	394.2	537.5	2395.2	4448.9	5560.8
75°	127.0	129.5	164.3	283.1	374.2	301.0	284.6	1284.4	2611.7	3078.1
77.5°	77.8	78.8	106.0	193.5	280.0	229.3	183.3	544.2	1010.5	992.1
80°	44.0	44.0	67.6	120.3	190.9	147.9	128.5	231.4	319.9	281.0
82.5°	24.6	25.1	49.1	74.7	126.4	87.5	70.6	107.0	138.2	122.3
85°	10.2	11.3	30.2	35.3	60.4	43.5	28.7	45.0	51.2	45.6
87.5°	1.0	1.5	9.2	6.7	7.2	8.7	4.1	8.7	7.2	7.2
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°
1177.9	0°	1177.9	1177.9	1177.9	1177.9	1177.9	1177.9	1177.9	1177.9	1177.9	1177.9
1195.3	2.5°	1185.6	1177.9	1158.4	1135.9	1106.2	1091.9	1072.4	1059.1	1047.9	1048.9
1225.0	5°	1208.6	1189.1	1145.6	1091.4	1023.8	975.7	924.5	889.2	860.5	854.4
1265.9	7.5°	1240.3	1209.6	1133.4	1035.6	921.4	834.9	757.6	708.0	672.6	661.4
1315.6	10°	1281.3	1236.8	1117.5	965.4	801.1	691.1	608.1	569.2	545.2	537.0
1373.9	12.5°	1328.9	1268.0	1096.5	880.0	677.2	571.3	518.6	499.1	491.4	488.9
1445.6	15°	1388.8	1306.9	1064.8	778.6	572.3	498.1	475.6	473.0	474.0	473.0
1531.6	17.5°	1459.9	1349.4	1013.1	674.2	501.7	460.7	452.5	454.6	457.1	456.6
1627.8	20°	1537.8	1391.3	947.0	581.5	453.5	434.1	429.5	431.5	433.6	432.6
1738.9	22.5°	1626.3	1436.4	873.8	509.3	421.3	409.5	404.4	404.9	404.9	402.9
1879.7	25°	1732.3	1486.1	797.0	458.2	396.7	387.5	381.4	379.3	376.2	370.1
2050.7	27.5°	1858.7	1538.8	723.3	422.3	377.3	368.6	361.4	356.3	348.6	338.4
2256.0	30°	2001.0	1602.8	660.9	399.8	361.9	353.2	345.0	337.3	326.1	313.3
2491.9	32.5°	2168.4	1671.4	615.3	385.0	348.1	338.9	329.2	319.9	307.7	294.9
2757.1	35°	2368.1	1754.3	588.7	374.7	337.3	325.1	314.3	304.1	294.9	283.6
3045.3	37.5°	2584.6	1842.3	580.5	369.6	330.2	311.2	299.0	291.8	290.8	284.1
3357.1	40°	2821.6	1946.8	586.6	366.5	322.5	297.9	284.6	283.1	285.6	273.9
3690.3	42.5°	3072.4	2070.6	596.9	362.9	311.7	284.6	271.8	271.8	269.8	253.4
4042.5	45°	3343.7	2213.5	607.1	354.2	299.0	271.3	261.6	258.0	249.3	233.4
4396.7	47.5°	3617.1	2358.8	614.8	338.4	283.6	260.0	251.3	243.2	230.4	216.0
4744.3	50°	3876.6	2489.4	606.6	314.8	266.2	249.3	240.1	228.8	215.0	205.3
5073.5	52.5°	4108.5	2602.5	571.8	287.2	247.8	238.0	229.8	218.1	206.8	196.6
5370.4	55°	4310.2	2694.1	510.4	261.1	231.4	228.3	220.1	205.3	189.9	181.2
5664.7	57.5°	4503.7	2763.8	433.6	239.6	216.5	217.6	205.3	192.0	177.6	168.4
6061.4	60°	4761.2	2856.9	355.8	219.6	200.7	203.7	190.4	180.7	162.8	151.0
6741.7	62.5°	5172.8	3001.8	282.6	195.0	182.2	183.3	177.6	165.9	144.4	130.5
7246.0	65°	5499.4	2948.6	222.7	168.4	161.2	162.8	162.8	150.0	127.0	111.1
<b>7273.1</b>	<b>67.5°</b>	<b>5462.5</b>	<b>2524.7</b>	<b>177.6</b>	<b>142.3</b>	<b>141.3</b>	<b>142.3</b>	<b>145.9</b>	<b>135.1</b>	<b>112.6</b>	<b>99.8</b>
6719.2	70°	5032.0	2008.2	142.3	118.2	122.9	120.3	130.5	123.4	101.4	88.6
5209.1	72.5°	4106.0	1446.6	108.5	97.8	94.2	98.3	117.7	111.1	84.5	70.1
2759.2	75°	2399.3	771.9	80.9	77.3	68.1	81.9	104.4	94.7	64.5	51.7
845.7	77.5°	781.2	269.3	59.4	56.8	50.7	66.0	89.1	79.9	52.7	41.0
247.8	80°	209.4	81.4	40.4	37.4	32.8	49.1	70.6	63.5	37.9	26.6
106.5	82.5°	84.0	34.3	23.5	21.0	17.9	33.8	55.8	51.2	28.2	16.9
33.3	85°	27.1	11.3	8.7	6.7	8.2	21.0	33.3	34.8	20.0	8.7
5.1	87.5°	3.6	1.5	1.5	2.0	1.5	3.6	10.2	9.7	5.6	1.0
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>
1177.9
1038.6
840.5
650.1
530.8
487.3
472.5
455.6
432.0
401.8
369.1
337.3
312.3
295.4
282.6
283.6
274.4
253.4
232.9
215.5
203.7
195.5
180.2
167.4
149.5
129.5
109.5
97.8
87.0
68.6
50.2
39.4
26.1
16.9
6.7
0.0
0.0

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