

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: P946151

Luminaire Tested: **GALN-SB1D-850-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946151  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-850-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

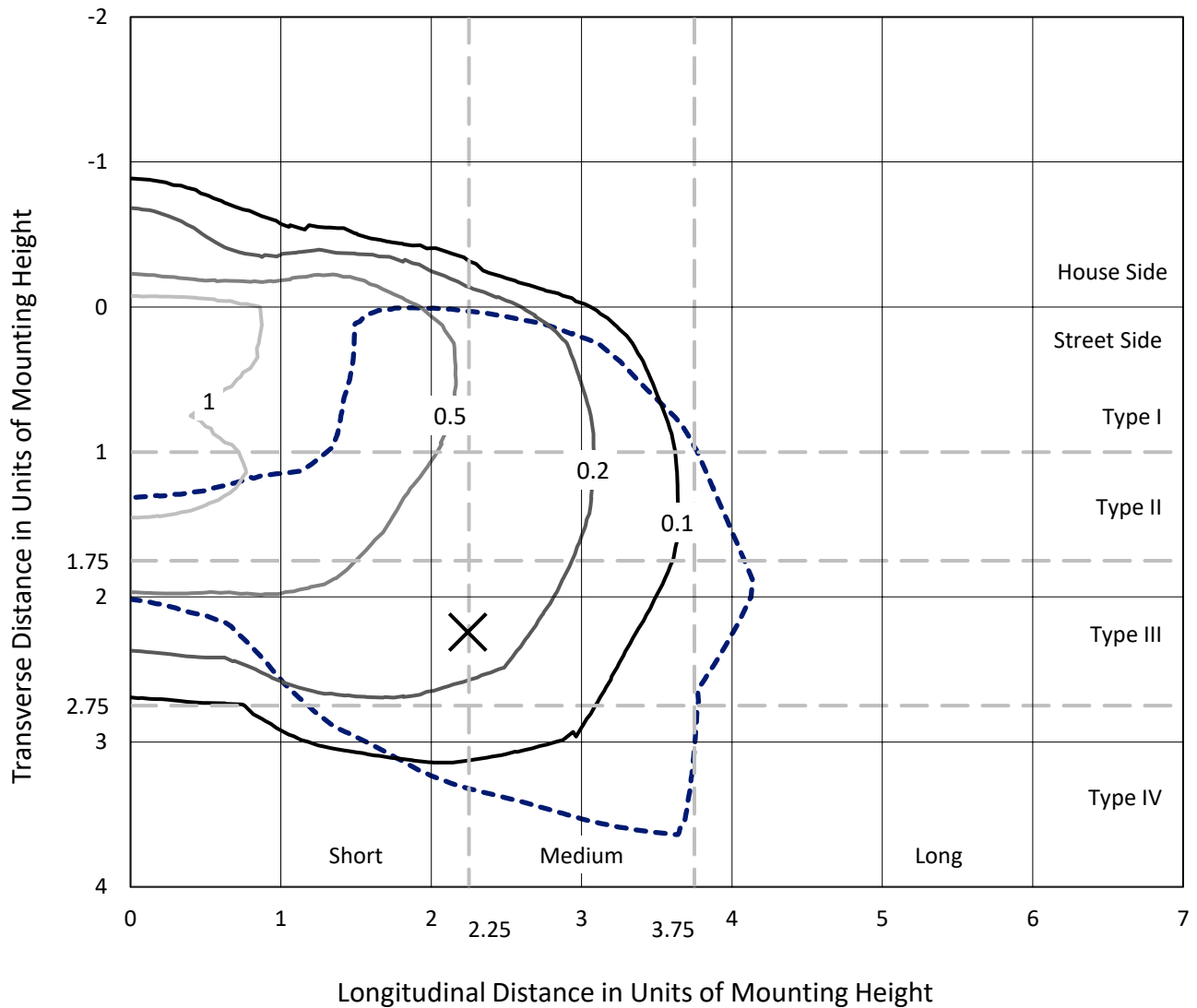
Lumens per Lamp: N/A  
Luminaire Lumens: 7500 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

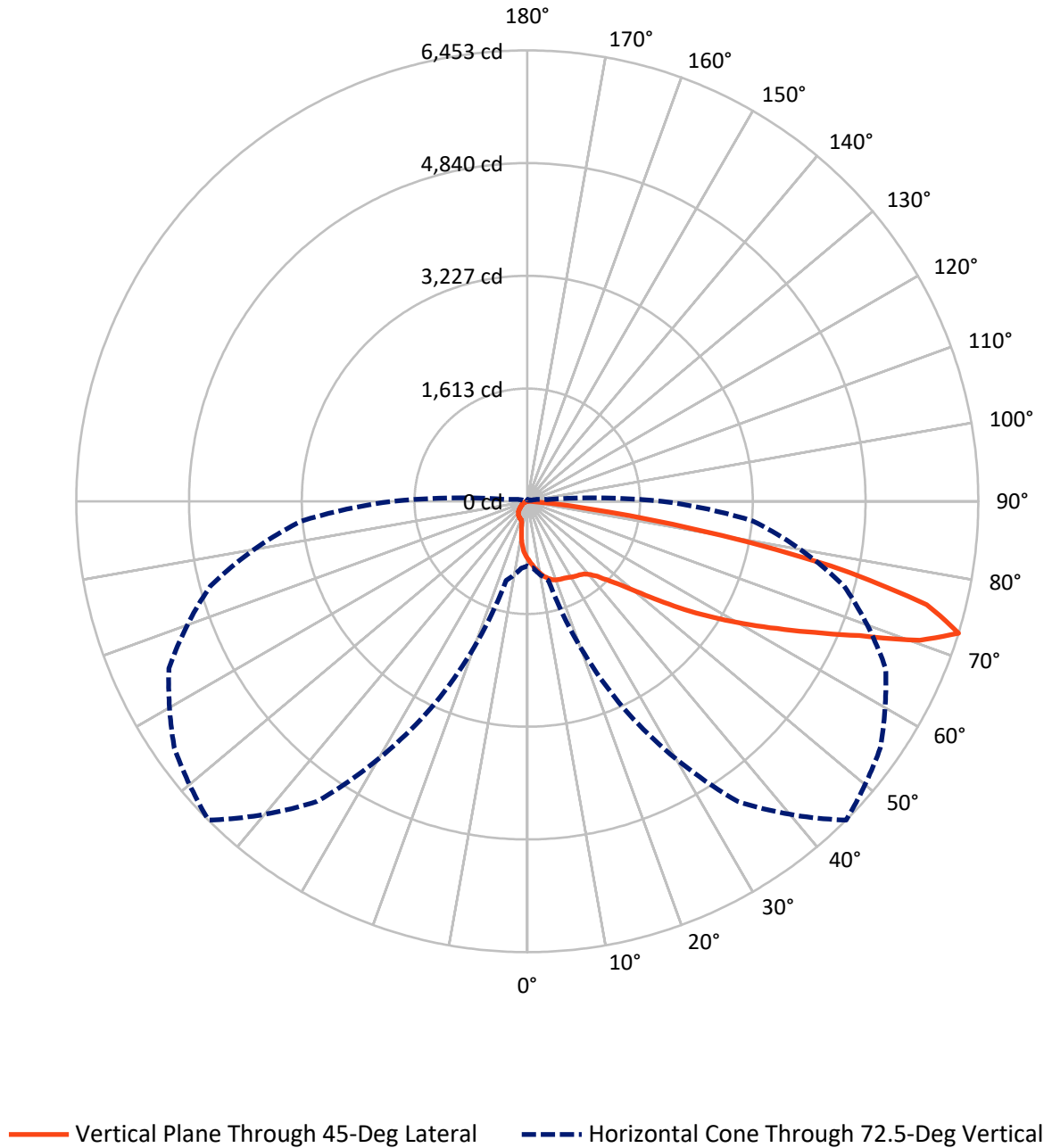
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	788.0	0.0	788.0
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	6712.0	0.0	6712.0
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	7500.0	0.0	7500.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.4	1.0
10°-20°	226.2	3.0
20°-30°	371.5	5.0
30°-40°	526.9	7.0
40°-50°	871.0	11.6
50°-60°	1564.6	20.9
60°-70°	2172.5	29.0
70°-80°	1575.9	21.0
80°-90°	113.9	1.5
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°	7500.0	100.0
0°-180°	7500.0	100.0

**Coefficient of Utilization**



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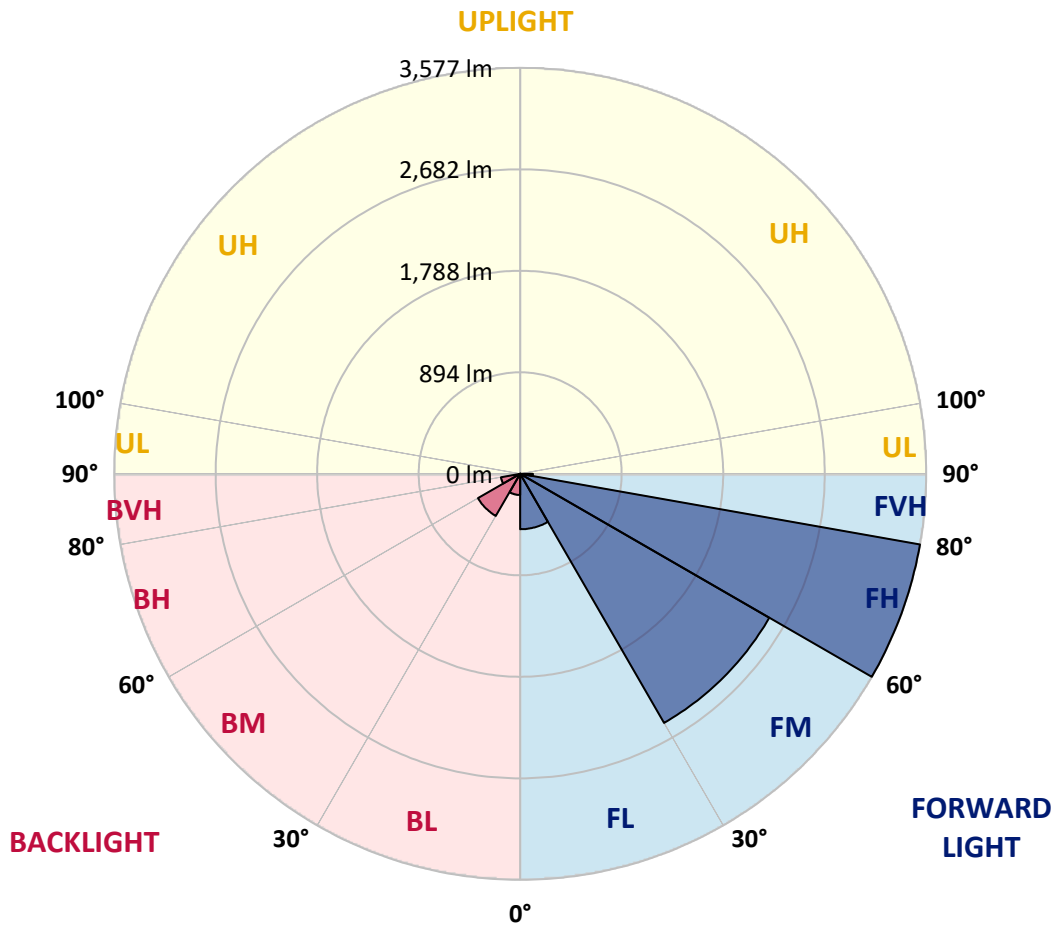
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	488.5	6.5			
FM (30°-60°)	2533.9	33.8			
FH (60°-80°)	3576.5	47.7			G2/5000
FVH (80°-90°)	113.0	1.5			G2/225
BL (0°-30°)	186.7	2.5	B1/500		
BM (30°-60°)	428.6	5.7	B1/1000		
BH (60°-80°)	171.8	2.3	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	821.6	821.6	821.6	821.6	821.6	821.6	821.6	821.6	821.6	821.6
2.5°	897.4	898.9	897.9	891.8	881.5	875.9	872.8	862.6	855.9	844.2
5°	979.8	986.0	982.4	970.1	950.6	936.8	932.7	911.7	892.8	870.8
7.5°	1067.4	1070.4	1063.8	1047.9	1021.8	998.3	994.7	965.5	935.3	901.5
10°	1143.1	1146.7	1136.5	1113.4	1083.7	1054.6	1049.4	1017.2	981.4	939.9
12.5°	1206.6	1210.2	1196.9	1169.2	1136.5	1106.3	1101.2	1067.4	1027.9	981.9
15°	1254.7	1261.4	1243.5	1213.8	1178.5	1148.2	1145.7	1112.4	1074.0	1022.8
17.5°	1282.9	1289.5	1272.6	1236.8	1206.6	1181.0	1177.9	1150.3	1114.5	1065.3
20°	1287.5	1293.6	1275.7	1244.5	1219.4	1198.9	1197.4	1177.4	1151.3	1104.2
22.5°	1273.7	1281.4	1265.0	1239.9	1222.5	1211.7	1209.7	1198.4	1183.6	1143.6
25°	1259.3	1265.5	1253.2	1231.2	1222.0	1220.9	1222.5	1220.4	1217.4	1183.6
27.5°	1258.3	1265.0	1251.1	1230.2	1225.0	1235.8	1237.3	1247.1	1249.6	1219.9
30°	1267.0	1271.6	1258.3	1236.3	1233.7	1258.3	1258.8	1276.2	1280.3	1250.6
32.5°	1286.0	1291.1	1277.8	1245.5	1241.9	1276.2	1277.8	1300.8	1307.5	1283.4
35°	1330.5	1336.6	1321.3	1271.1	1258.3	1293.1	1297.7	1324.9	1338.2	1318.2
37.5°	1441.6	1423.7	1402.7	1322.8	1295.7	1319.7	1327.4	1359.2	1382.7	1359.7
40°	1717.5	1661.2	1595.7	1410.9	1361.2	1376.6	1382.7	1414.5	1446.7	1424.2
42.5°	2131.7	2065.1	1959.7	1613.6	1460.0	1467.7	1472.3	1499.9	1545.5	1527.6
45°	2500.8	2476.7	2369.2	1959.7	1644.8	1606.9	1612.6	1626.9	1694.0	1687.3
47.5°	2784.4	2770.5	2687.6	2356.9	1957.1	1777.4	1793.3	1799.9	1896.7	1920.2
50°	3002.4	2997.3	2923.1	2710.1	2365.1	2028.8	2034.4	2020.1	2164.9	2223.3
52.5°	3208.2	3225.6	3170.9	3038.3	2800.7	2357.9	2356.9	2289.3	2484.9	2572.9
55°	3394.1	3400.2	3405.8	3373.1	3239.0	2732.7	2722.9	2612.4	2856.0	2947.2
57.5°	3568.6	3571.2	3621.4	3688.4	3695.1	3135.0	3117.1	2984.5	3261.5	3326.5
60°	3685.9	3697.6	3803.6	3989.9	4071.3	3550.2	3540.5	3405.3	3674.1	3704.3
62.5°	3516.9	3588.6	3855.8	4225.4	4426.6	4010.4	4005.8	3878.9	4108.2	4083.6
65°	2846.8	2968.1	3438.1	4384.6	4775.2	4524.4	4531.1	4395.9	4554.1	4474.2
67.5°	1991.4	2119.4	2675.3	4397.4	5164.8	5128.0	5166.4	4954.4	5027.6	4848.4
70°	1377.1	1443.1	1805.1	4122.0	5468.4	5959.3	5958.3	5640.4	5498.6	5018.9
72.5°	926.1	960.4	1172.3	3270.2	5245.2	6453.3	6423.6	6164.6	5657.3	4693.8
75°	390.6	415.7	542.6	1837.8	4149.7	5904.0	5823.7	5447.9	5026.6	3696.1
77.5°	123.9	134.6	214.0	657.8	2285.7	4437.9	4352.9	3402.3	3369.0	1854.2
80°	58.9	68.6	120.3	264.2	899.5	2413.7	2402.0	1543.5	1449.3	500.7
82.5°	25.6	30.2	66.6	141.3	402.4	861.1	878.5	525.2	434.6	189.9
85°	8.2	10.8	30.7	65.0	170.0	214.0	211.4	124.9	175.1	103.4
87.5°	0.0	0.0	10.2	14.8	17.4	12.3	13.8	10.8	48.6	28.7
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°
821.6	0°	821.6	821.6	821.6	821.6	821.6	821.6	821.6	821.6	821.6	821.6
831.9	2.5°	825.7	817.5	803.2	789.9	778.1	766.4	759.2	748.9	747.9	747.9
845.2	5°	831.4	818.1	792.5	765.3	734.1	704.4	674.7	646.1	636.8	630.2
866.7	7.5°	847.7	826.8	786.3	734.6	675.2	610.2	564.7	515.5	496.6	486.3
895.4	10°	871.3	842.6	781.2	690.6	594.3	505.8	440.8	387.5	367.1	358.3
926.6	12.5°	897.4	862.1	772.0	635.8	505.8	399.8	336.3	311.8	308.7	308.7
964.0	15°	928.6	885.6	756.1	571.3	413.1	316.4	293.8	294.9	297.9	300.0
1000.3	17.5°	960.9	910.7	731.0	499.1	331.2	284.6	285.1	286.7	289.2	291.3
1039.7	20°	995.7	935.8	697.8	422.3	284.1	275.4	277.0	278.5	280.5	281.6
1076.6	22.5°	1033.1	959.3	658.3	347.1	268.2	267.7	268.2	269.8	272.3	272.3
1119.6	25°	1073.0	985.5	613.3	292.3	260.1	260.1	261.1	262.1	264.2	264.2
1161.0	27.5°	1114.0	1009.5	565.7	263.6	252.9	252.4	252.4	253.9	254.9	255.5
1202.0	30°	1159.0	1037.7	518.1	257.5	247.3	244.7	243.2	244.2	245.2	245.7
1245.0	32.5°	1205.1	1064.8	475.6	260.1	241.6	237.0	231.9	230.9	230.9	232.9
1289.5	35°	1256.3	1094.5	442.8	268.8	238.6	225.8	217.6	213.0	213.5	216.5
1342.8	37.5°	1317.7	1130.3	418.8	276.4	236.5	213.0	199.7	194.0	190.4	194.0
1416.0	40°	1398.1	1183.1	401.3	282.6	234.0	198.1	180.2	171.0	164.3	166.4
1529.6	42.5°	1516.3	1266.0	394.7	283.1	228.3	180.7	160.2	147.9	138.2	138.7
1700.6	45°	1682.2	1397.0	429.0	276.4	216.0	161.8	139.2	122.9	116.7	115.2
1956.1	47.5°	1909.5	1588.0	508.3	262.6	198.1	143.3	118.8	104.9	100.3	97.8
2291.4	50°	2214.1	1833.2	596.4	247.3	180.2	125.9	101.9	93.2	90.1	87.5
2689.1	52.5°	2567.3	2082.0	668.6	231.9	162.3	110.6	91.1	86.0	83.4	81.4
3073.1	55°	2891.4	2253.5	664.5	215.5	144.9	98.3	83.4	80.4	77.3	75.3
3403.8	57.5°	3093.1	2277.6	547.8	197.6	124.9	88.6	76.3	74.2	70.6	68.1
3690.0	60°	3185.7	2140.4	383.9	174.1	104.9	79.3	68.6	67.6	63.0	59.4
3960.8	62.5°	3202.6	1885.4	256.0	144.9	87.5	70.6	60.9	59.4	53.2	47.1
4180.9	65°	3134.0	1520.9	177.1	113.1	74.7	61.4	52.2	49.1	42.5	36.3
4233.1	67.5°	2917.0	1067.9	123.4	81.4	63.5	48.6	41.5	40.4	35.3	30.2
3966.9	70°	2519.2	608.7	82.4	60.9	50.2	33.3	32.8	33.8	28.7	24.6
3241.0	72.5°	1931.5	278.5	51.2	44.5	34.3	22.5	26.1	26.6	22.0	18.4
2022.1	75°	1137.0	119.3	32.3	28.7	17.4	14.8	18.9	19.5	14.8	11.8
739.2	77.5°	387.0	45.0	20.5	16.9	8.7	8.2	12.3	12.3	8.2	4.6
148.5	80°	88.1	16.9	10.2	6.7	4.1	3.6	4.1	3.6	2.0	0.5
45.6	82.5°	25.1	6.7	4.1	2.6	1.5	1.5	0.5	0.0	0.0	0.0
15.9	85°	7.2	3.1	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
5.6	87.5°	3.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
821.6
750.5
633.3
487.9
358.3
308.7
300.0
291.3
282.1
273.4
264.7
256.0
246.7
234.5
218.1
193.0
165.4
136.7
113.1
96.2
87.0
80.9
74.2
67.6
58.4
44.0
34.3
28.7
22.5
16.4
10.2
3.6
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