

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: P946139

Luminaire Tested: **GALN-SB1D-850-U-SL3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946139  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)  
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-SL3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

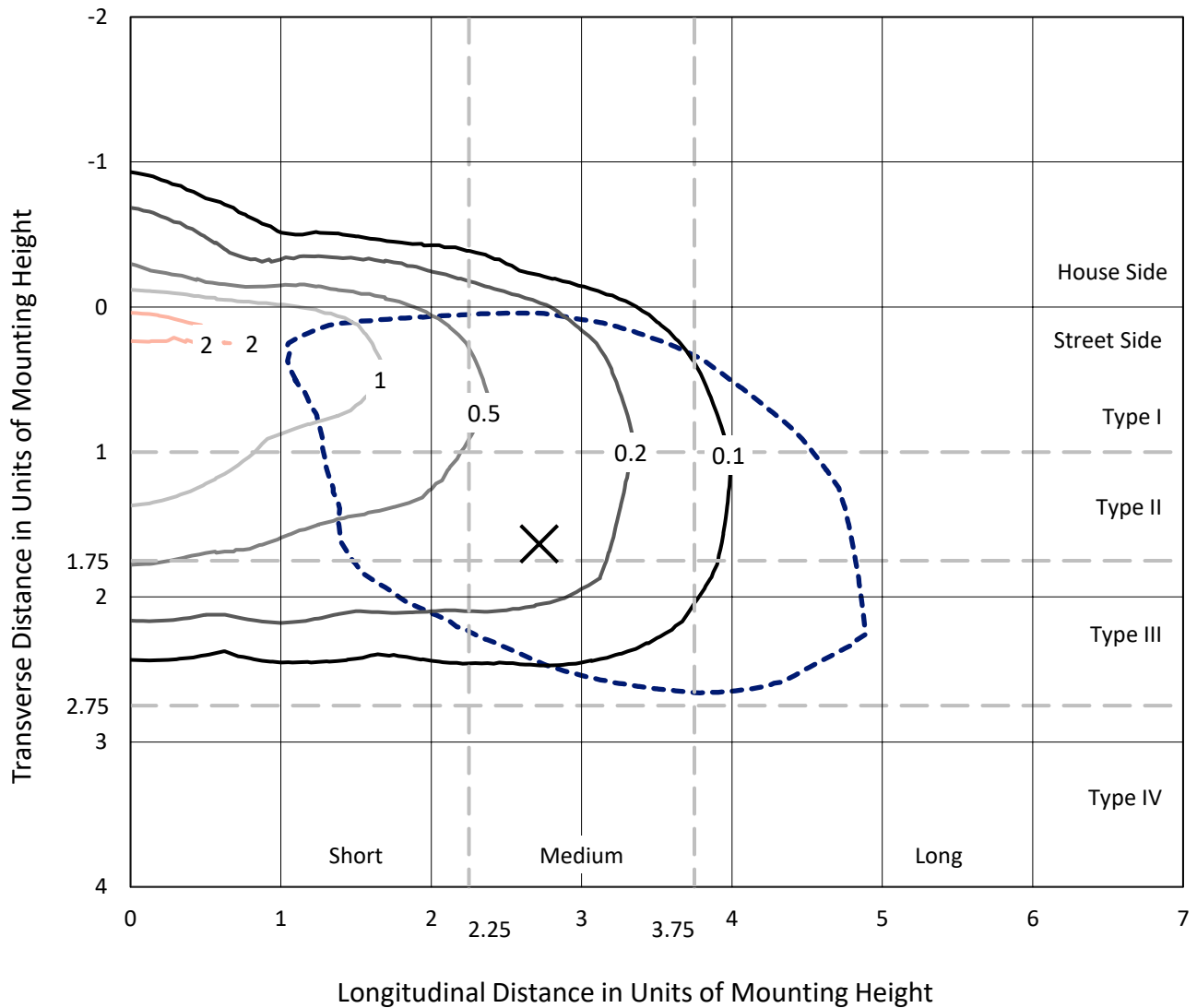
Lumens per Lamp: N/A  
Luminaire Lumens: 7841 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

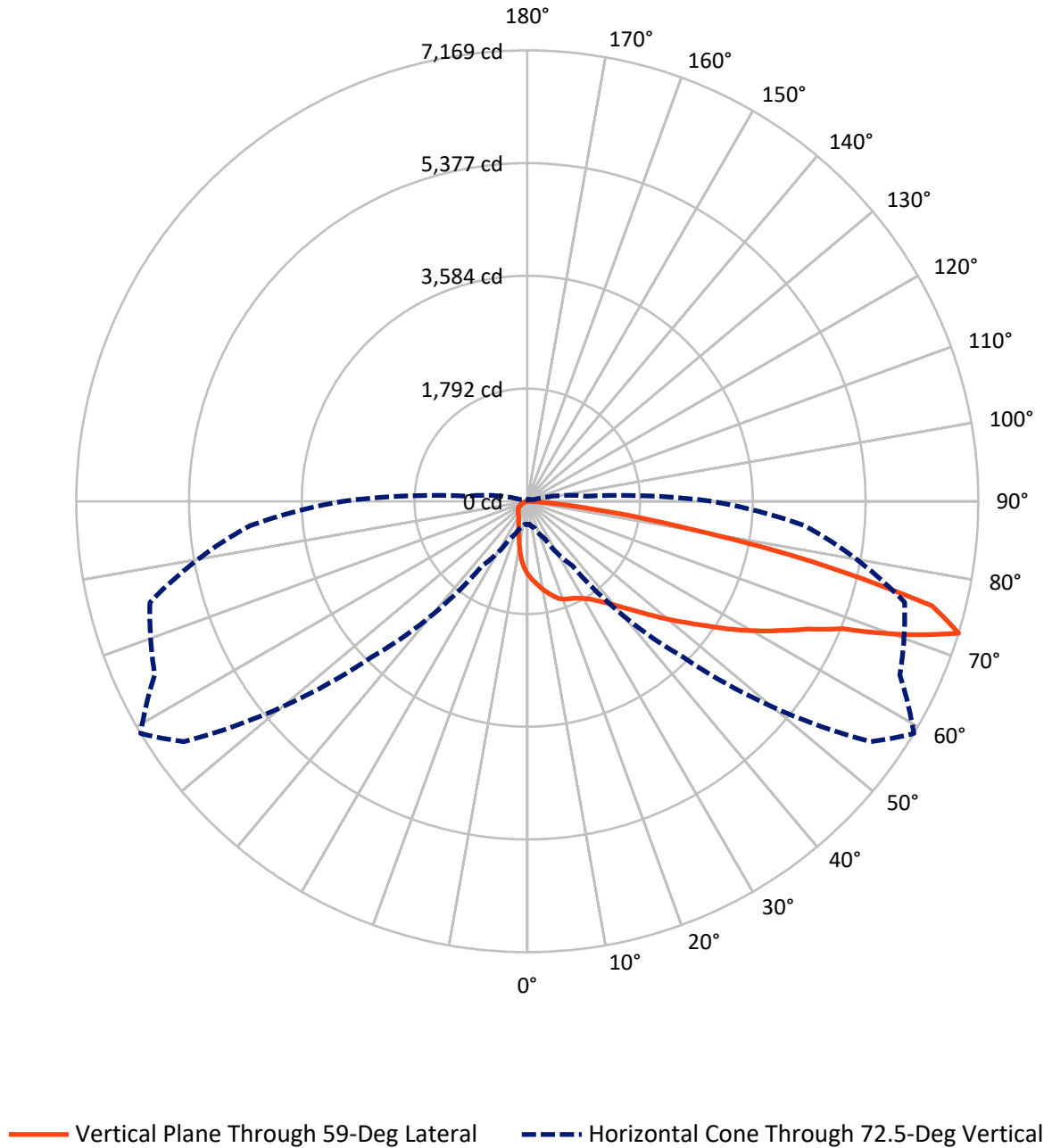
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type III - 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	828.2	0.0	828.2
	% Fixture	10.6	0.0	10.6
<b>Street Side</b>	Lumens	7012.8	0.0	7012.8
	% Fixture	89.4	0.0	89.4
<b>Total</b>	Lumens	7841.0	0.0	7841.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.9	1.3
10°-20°	278.6	3.6
20°-30°	441.6	5.6
30°-40°	708.7	9.0
40°-50°	1131.9	14.4
50°-60°	1638.9	20.9
60°-70°	1944.9	24.8
70°-80°	1443.8	18.4
80°-90°	147.6	1.9
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°	7841.0	100.0
0°-180°	7841.0	100.0

**Coefficient of Utilization**



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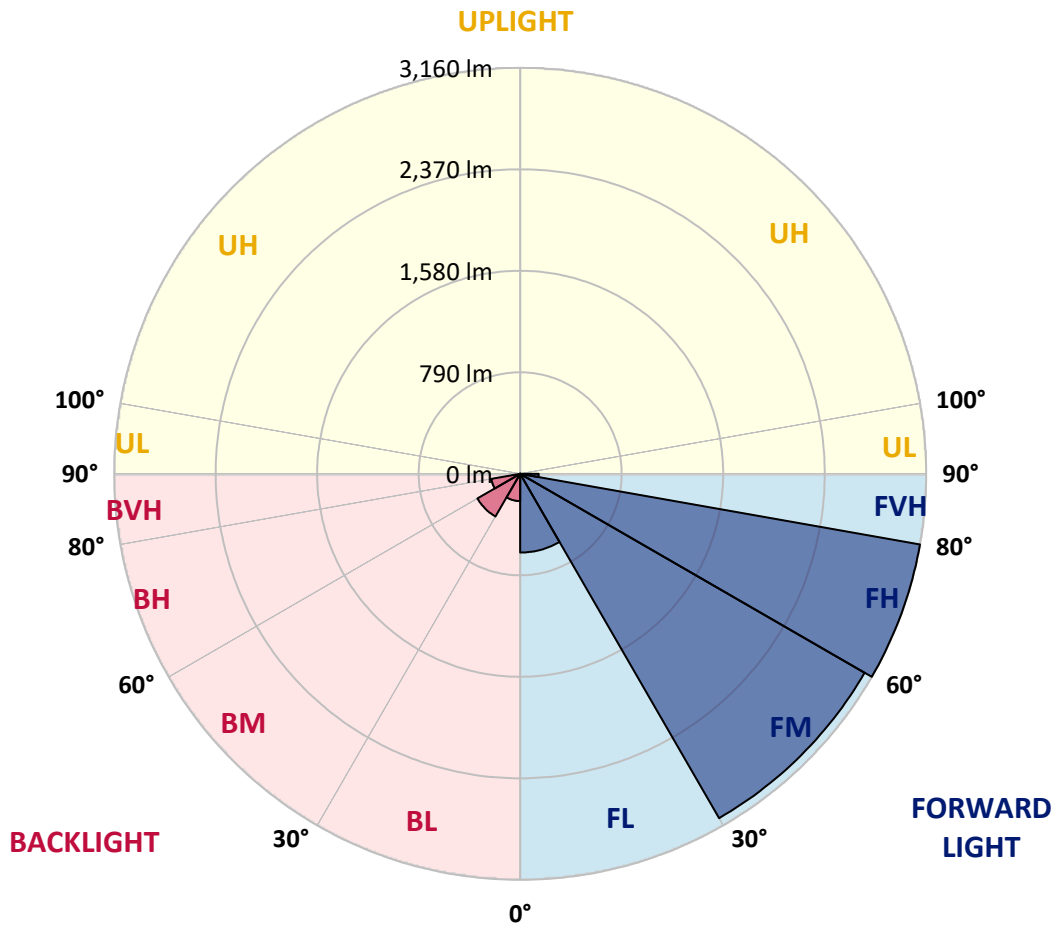
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	613.0	7.8			
FM (30°-60°)	3095.5	39.5			
FH (60°-80°)	3160.4	40.3			G2/5000
FVH (80°-90°)	143.9	1.8			G2/225
BL (0°-30°)	212.2	2.7	B1/500		
BM (30°-60°)	384.0	4.9	B1/1000		
BH (60°-80°)	228.4	2.9	B1/500		G1/500
BVH (80°-90°)	3.7	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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1159.5	1159.5	1159.5	1159.5	1159.5	1159.5	1159.5	1159.5	1159.5	1159.5
2.5°	1286.5	1279.3	1280.3	1268.0	1259.3	1250.1	1232.2	1229.6	1216.8	1194.3
5°	1398.6	1394.0	1389.9	1376.0	1358.1	1335.6	1305.4	1294.6	1271.1	1232.2
7.5°	1480.5	1474.8	1476.9	1463.1	1448.7	1423.6	1382.2	1362.2	1331.0	1271.6
10°	1496.3	1493.3	1506.6	1511.7	1511.7	1495.8	1455.4	1435.4	1389.9	1314.1
12.5°	1407.3	1407.8	1441.1	1481.0	1533.2	1548.0	1520.9	1499.4	1454.4	1359.1
15°	1303.3	1303.9	1336.1	1387.3	1472.8	1558.3	1579.8	1566.0	1519.4	1407.8
17.5°	1240.9	1238.3	1259.8	1301.8	1391.4	1511.7	1615.6	1624.8	1586.9	1461.5
20°	1232.2	1227.6	1238.8	1259.8	1323.8	1453.3	1619.7	1663.2	1656.6	1522.4
22.5°	1285.4	1278.3	1272.1	1273.1	1300.3	1404.7	1609.5	1684.7	1728.2	1595.7
25°	1390.9	1379.6	1359.7	1334.1	1328.4	1394.5	1602.3	1708.3	1794.8	1689.3
27.5°	1519.9	1504.0	1465.6	1427.2	1394.5	1423.1	1617.2	1745.6	1870.0	1798.4
30°	1661.7	1642.2	1603.8	1531.2	1478.9	1487.1	1652.5	1794.8	1966.3	1921.7
32.5°	1870.0	1825.0	1757.9	1646.8	1577.7	1556.2	1705.7	1857.2	2085.6	2086.1
35°	2048.7	2023.6	1956.0	1817.8	1676.0	1647.9	1775.8	1945.3	2250.9	2303.6
37.5°	2165.9	2131.6	2072.2	1968.3	1828.6	1742.1	1869.5	2053.3	2426.0	2551.4
40°	2297.0	2263.2	2184.4	2086.6	2005.7	1903.8	1987.8	2177.7	2618.0	2805.8
42.5°	2455.2	2411.1	2318.0	2212.5	2128.0	2116.8	2142.4	2332.8	2815.0	3082.3
45°	2641.0	2599.5	2492.5	2359.4	2285.2	2265.2	2336.9	2513.5	3034.7	3385.3
47.5°	2815.0	2766.9	2651.7	2530.4	2448.0	2385.0	2543.7	2727.0	3283.5	3702.2
50°	2963.0	2913.8	2808.4	2678.9	2623.1	2540.7	2747.0	2965.0	3530.2	4024.2
52.5°	3064.3	3020.8	2897.0	2808.9	2771.0	2729.6	2985.0	3217.4	3775.9	4319.1
55°	3041.3	3002.4	2893.4	2887.2	2884.7	2928.2	3269.6	3503.6	4026.2	4598.1
57.5°	2968.1	2924.1	2787.9	2881.6	2972.2	3105.3	3577.8	3842.0	4300.6	4861.2
60°	2752.6	2737.2	2654.3	2870.8	3009.1	3278.8	3930.0	4181.9	4597.5	5092.6
62.5°	2296.5	2309.8	2309.3	2893.4	3075.6	3476.4	4250.0	4525.9	4887.8	5315.3
65°	1719.5	1765.6	1824.5	2690.6	3164.7	3829.2	4632.4	4899.1	5182.7	5574.3
67.5°	1155.4	1192.3	1232.2	2207.4	2899.5	4199.8	5267.6	5410.5	5535.9	5861.5
70°	661.4	673.2	729.0	1378.6	2235.0	4097.4	6302.2	6353.9	6062.7	6215.2
72.5°	370.6	366.5	440.3	654.2	1249.1	3508.7	6664.7	7168.9	6534.1	6209.6
75°	247.8	248.3	303.1	412.6	486.8	2456.2	5743.2	6647.3	6251.6	5506.2
77.5°	168.9	174.6	222.7	318.9	225.2	1198.4	3799.5	4656.4	5061.3	4252.0
80°	73.2	73.7	146.9	228.8	152.0	381.4	1969.9	2494.6	3174.4	2387.6
82.5°	37.9	43.0	93.7	147.9	95.7	133.6	930.7	1089.9	1332.0	700.8
85°	13.3	15.9	57.8	72.7	48.1	47.6	324.0	330.2	282.1	105.5
87.5°	0.0	2.6	22.5	17.9	6.1	5.6	38.4	32.3	25.6	14.8
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°
1159.5	0°	1159.5	1159.5	1159.5	1159.5	1159.5	1159.5	1159.5	1159.5	1159.5	1159.5
1171.3	2.5°	1160.5	1146.7	1124.2	1096.5	1064.3	1046.9	1021.8	1006.4	992.6	993.1
1187.1	5°	1162.1	1139.0	1081.7	1020.8	953.2	903.5	848.3	809.3	779.7	772.5
1203.5	7.5°	1166.7	1127.8	1034.1	932.7	820.1	736.7	660.4	612.3	585.1	578.0
1220.4	10°	1172.8	1115.5	980.3	825.2	685.5	585.1	521.6	490.9	478.6	469.4
1241.9	12.5°	1177.9	1102.7	912.8	714.1	565.7	487.3	439.2	413.6	402.9	396.2
1267.0	15°	1186.6	1085.8	839.5	610.7	484.8	420.8	375.2	356.3	353.2	354.2
1294.6	17.5°	1195.3	1069.4	757.6	529.8	425.4	362.4	334.8	331.7	335.8	339.9
1326.4	20°	1205.1	1045.9	674.7	468.9	370.6	322.0	314.8	316.9	318.9	326.1
1369.9	22.5°	1219.4	1016.2	602.0	417.2	325.1	302.5	299.0	300.5	302.0	309.2
1427.2	25°	1239.9	984.4	543.1	369.6	296.4	286.7	283.1	283.1	285.1	291.8
1493.8	27.5°	1261.4	939.4	495.5	325.6	279.5	269.3	263.1	263.1	265.7	273.4
1577.2	30°	1285.4	898.4	458.2	292.8	265.2	251.9	243.7	241.6	244.7	254.4
1698.0	32.5°	1328.9	871.8	431.5	277.5	252.4	236.0	224.7	219.1	222.2	233.4
1867.0	35°	1395.0	865.7	413.1	269.8	240.1	221.7	205.8	197.1	199.6	211.4
2075.3	37.5°	1472.3	878.5	395.2	259.5	228.3	207.8	186.9	175.6	179.7	190.4
2313.4	40°	1583.4	931.7	381.4	251.9	216.5	191.5	167.9	156.6	163.3	172.5
2561.1	42.5°	1717.5	1026.4	377.8	244.7	202.2	174.1	150.5	142.3	147.4	156.1
2811.5	45°	1883.9	1147.2	394.2	235.5	186.3	157.2	136.7	132.1	133.6	142.3
3048.0	47.5°	2062.5	1271.1	439.2	227.3	172.5	143.3	125.9	121.8	120.8	129.0
3264.0	50°	2243.2	1381.2	492.5	221.1	162.8	132.1	117.7	112.6	110.1	115.2
3477.5	52.5°	2421.9	1468.7	527.3	210.9	153.1	120.8	110.6	102.9	98.3	100.8
3689.9	55°	2603.1	1545.5	529.3	195.6	143.8	113.6	103.4	94.7	89.1	89.1
3894.7	57.5°	2772.6	1613.1	499.1	175.1	131.1	107.0	93.7	86.5	80.4	78.3
4076.4	60°	2922.5	1663.2	449.0	152.0	119.8	98.3	84.0	78.3	70.6	66.5
4238.2	62.5°	3056.2	1687.8	380.4	128.5	106.0	88.1	74.7	68.6	58.4	53.2
4402.5	65°	3169.3	1662.7	308.7	106.5	94.2	76.8	64.0	57.8	46.6	40.4
4587.3	67.5°	3281.4	1548.0	233.4	89.6	81.9	64.5	52.7	47.1	38.9	33.8
4721.9	70°	3295.7	1306.9	163.3	75.3	68.1	49.7	42.5	38.9	31.7	27.1
4421.4	72.5°	2933.8	940.4	99.3	61.4	53.2	35.3	33.8	30.7	23.5	20.5
3612.6	75°	2345.1	576.4	58.4	46.1	35.3	25.1	25.1	22.0	15.9	13.3
2494.1	77.5°	1620.7	301.5	34.3	29.7	21.0	14.8	16.4	13.3	7.7	6.1
988.0	80°	649.1	114.7	18.4	13.8	9.7	6.7	5.6	3.1	1.5	1.0
202.7	82.5°	129.5	30.2	6.1	3.6	3.6	1.5	0.0	0.0	0.0	0.0
55.8	85°	33.3	6.7	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0
18.4	87.5°	10.2	0.0	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

180°
1159.5
1004.4
783.2
585.1
475.1
399.8
355.8
341.5
328.1
311.2
294.4
276.4
257.0
236.5
215.0
193.5
174.1
157.7
146.4
134.1
117.2
102.9
90.1
78.8
65.5
52.7
40.4
33.8
26.6
20.0
13.3
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