

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: P939898

Luminaire Tested: **GALN-SB2C-950-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939898  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2C-950-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

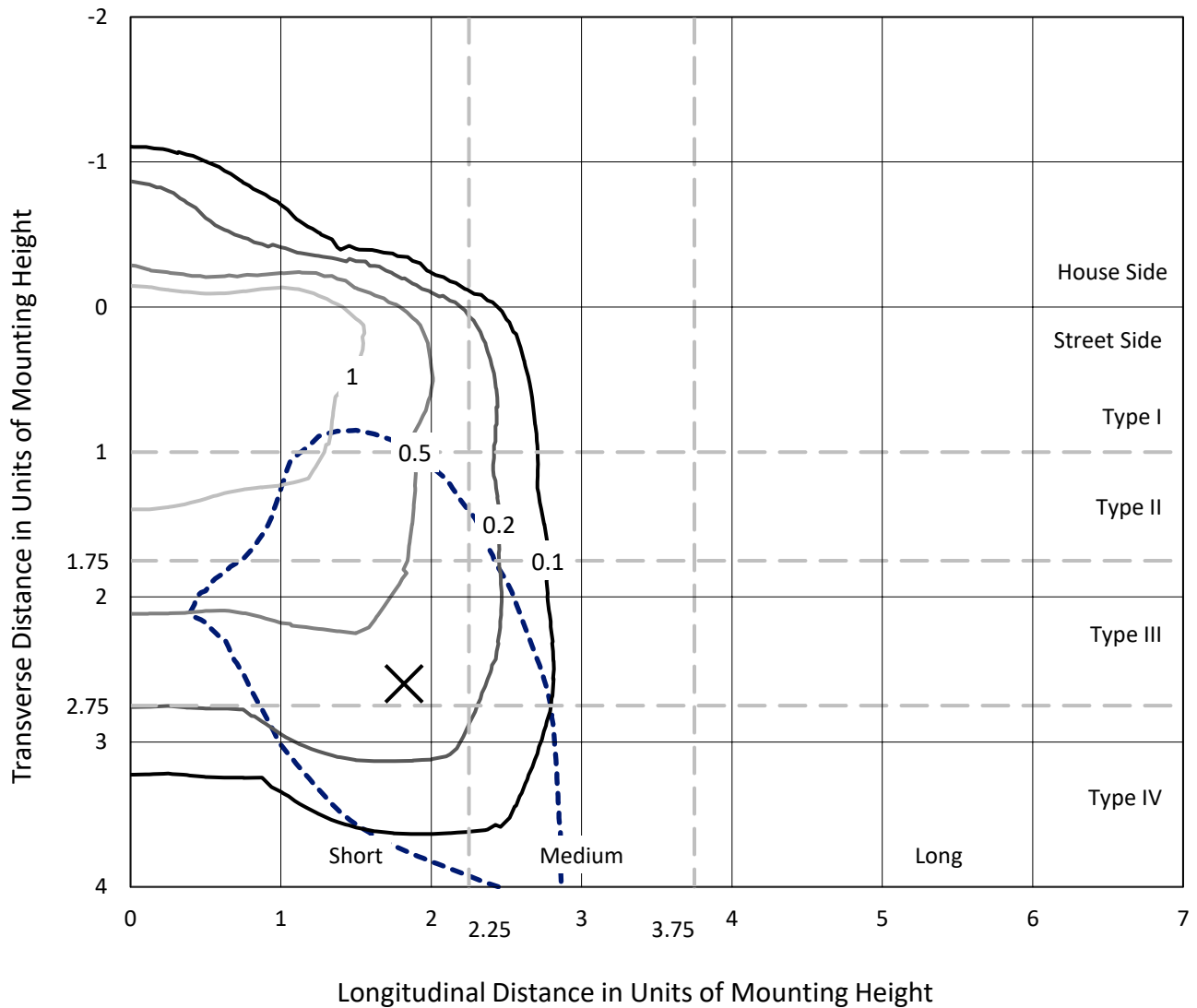
Lumens per Lamp: N/A  
Luminaire Lumens: 7888 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

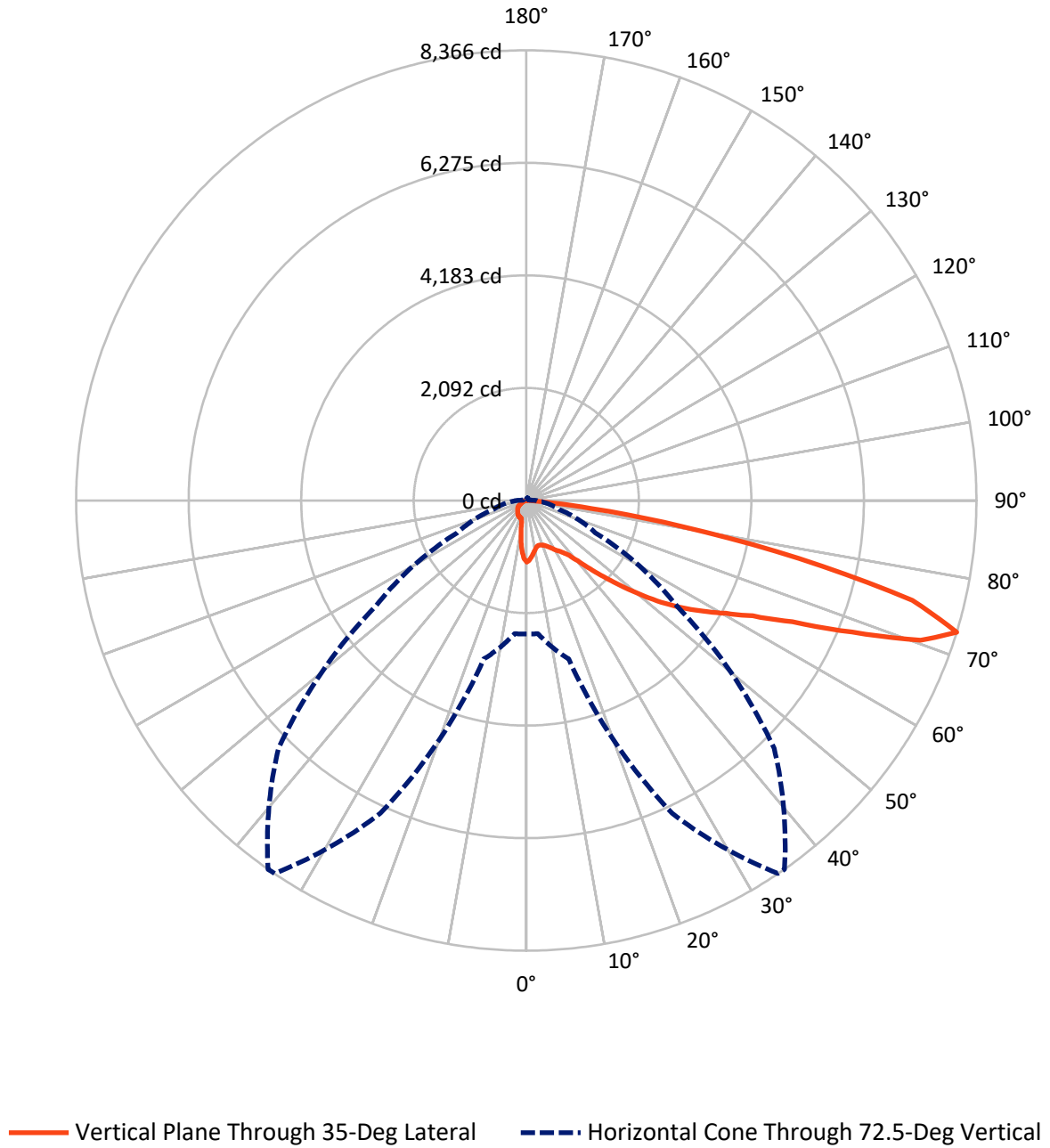
✕ Max cd  
 - - - 1/2 Max cd



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	887.8	0.0	887.8
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	7000.2	0.0	7000.2
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	7888.0	0.0	7888.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.9	1.2
10°-20°	219.8	2.8
20°-30°	357.0	4.5
30°-40°	595.7	7.6
40°-50°	1127.0	14.3
50°-60°	1790.8	22.7
60°-70°	2215.4	28.1
70°-80°	1377.1	17.5
80°-90°	111.3	1.4
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°	7888.0	100.0
0°-180°	7888.0	100.0

**Coefficient of Utilization**



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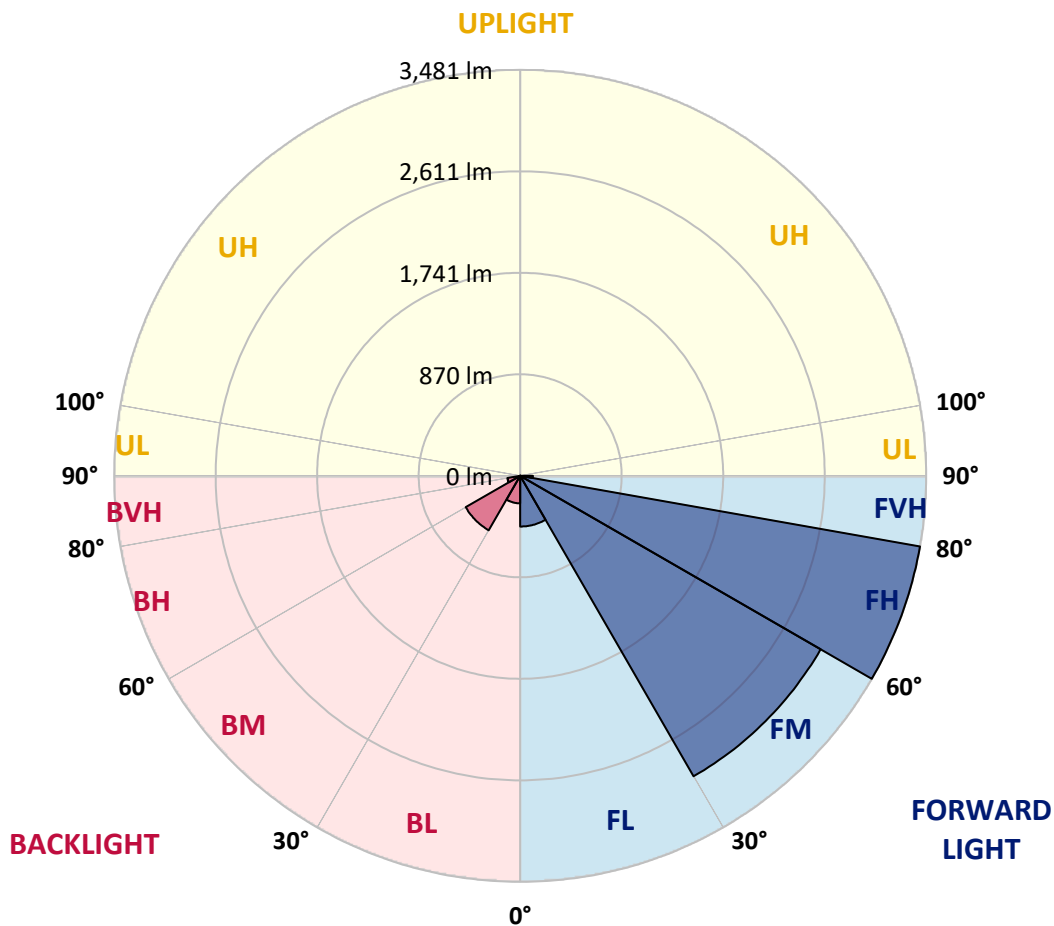
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	434.8	5.5			
FM (30°-60°)	2974.6	37.7			
FH (60°-80°)	3481.1	44.1			G2/5000
FVH (80°-90°)	109.8	1.4			G2/225
BL (0°-30°)	235.9	3.0	B1/500		
BM (30°-60°)	538.9	6.8	B1/1000		
BH (60°-80°)	111.4	1.4	B1/500		G1/500
BVH (80°-90°)	1.5	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°	34°	35°	45°	55°	65°	75°
0°	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2
2.5°	1092.4	1101.6	1103.4	1106.2	1106.2	1109.7	1115.5	1123.6	1136.9	1143.8
5°	1006.8	1013.8	1022.4	1029.4	1042.7	1044.4	1066.9	1088.9	1119.5	1142.7
7.5°	920.7	928.8	940.4	957.1	974.5	979.7	1013.8	1050.8	1099.3	1142.7
10°	860.0	860.6	871.0	887.8	915.5	921.9	963.5	1016.1	1076.8	1135.7
12.5°	825.9	830.0	834.6	847.3	873.9	877.9	922.4	984.3	1054.2	1131.7
15°	825.9	828.8	831.7	838.1	859.4	862.9	902.2	964.1	1042.7	1133.4
17.5°	834.6	839.2	836.9	844.4	867.0	869.3	904.0	958.3	1042.1	1144.4
20°	855.4	858.9	854.2	858.9	881.4	886.0	921.9	969.3	1051.9	1163.5
22.5°	888.3	890.1	879.1	882.6	905.7	911.5	953.1	1000.5	1075.6	1194.1
25°	930.0	933.4	916.7	920.7	942.7	949.6	997.6	1047.3	1113.2	1236.3
27.5°	977.9	979.7	965.2	964.6	993.0	1002.8	1051.3	1105.1	1163.5	1289.5
30°	1032.8	1038.0	1024.2	1021.9	1057.7	1065.8	1113.8	1176.2	1237.4	1369.2
32.5°	1076.2	1080.2	1072.1	1077.9	1114.3	1120.7	1189.5	1276.7	1353.6	1482.5
35°	1138.6	1140.9	1122.4	1132.8	1174.4	1190.6	1292.9	1417.8	1499.8	1624.7
37.5°	1364.6	1364.6	1286.0	1234.6	1274.4	1288.9	1434.5	1595.2	1680.2	1815.4
40°	1677.3	1672.1	1557.1	1451.9	1446.7	1475.0	1636.2	1818.9	1913.1	2044.3
42.5°	2010.8	2002.7	1846.1	1742.0	1724.7	1734.5	1869.2	2094.6	2190.5	2323.5
45°	2306.7	2304.4	2161.1	2021.2	1990.0	2021.2	2159.9	2417.1	2485.9	2625.7
47.5°	2554.7	2554.7	2450.0	2358.7	2342.5	2361.0	2553.5	2774.9	2768.5	2947.7
50°	2840.2	2837.9	2738.4	2699.1	2715.9	2741.9	3006.6	3151.7	3061.0	3263.8
52.5°	3040.2	3054.0	3019.9	3013.6	3099.1	3144.2	3466.7	3520.4	3322.8	3563.8
55°	3198.5	3214.7	3254.0	3298.5	3463.2	3522.2	3912.3	3870.1	3541.8	3823.9
57.5°	3422.8	3399.7	3460.3	3548.2	3814.6	3885.7	4344.1	4200.1	3718.1	4034.8
60°	3695.0	3698.5	3708.9	3819.8	4165.5	4256.8	4769.5	4512.3	3831.4	4164.3
62.5°	4022.1	4027.3	4048.7	4219.2	4636.5	4722.6	5222.6	4767.7	3883.4	4127.9
65°	3999.6	4021.6	4260.3	4843.4	5352.6	5437.6	5751.4	4946.9	3804.8	3795.0
67.5°	3643.6	3679.4	4078.8	5589.0	6432.3	6527.1	6390.7	4982.1	3465.5	2951.1
70°	3176.6	3189.3	3669.6	6259.5	7682.5	7778.4	6962.9	4594.3	2629.8	1646.1
72.5°	2480.7	2483.6	3047.1	6415.0	8361.0	8366.2	6513.8	3410.6	1414.3	632.3
75°	1772.1	1754.7	2040.8	5202.4	7355.9	7414.8	4883.3	1599.8	540.4	298.8
77.5°	950.2	969.3	1154.8	3085.2	5081.6	5182.1	2664.5	461.2	275.1	203.4
80°	293.6	309.8	473.4	1412.6	2878.3	2939.0	987.8	205.2	191.9	145.1
82.5°	92.5	95.9	220.8	593.6	1194.7	1222.4	286.1	116.2	131.2	95.9
85°	26.6	27.2	98.3	221.4	295.3	301.1	80.3	45.1	75.1	59.5
87.5°	2.9	9.2	37.0	37.0	26.0	25.4	8.7	9.8	21.4	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939898  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1143.2	0°	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2	1143.2
1148.4	2.5°	1145.5	1146.1	1138.6	1125.9	1112.0	1100.5	1086.0	1074.5	1066.4	1064.1
1158.8	5°	1153.6	1149.6	1128.2	1089.5	1043.2	1003.4	958.9	923.6	900.5	890.7
1169.8	7.5°	1165.8	1154.2	1107.4	1031.1	942.7	864.1	784.3	722.5	683.2	663.5
1180.2	10°	1176.2	1153.1	1072.7	946.7	811.5	692.4	584.9	510.4	468.7	449.1
1192.4	12.5°	1186.0	1152.5	1027.6	846.7	663.5	517.9	417.9	380.9	369.3	365.3
1212.0	15°	1204.5	1154.2	971.0	732.3	516.1	391.3	354.9	354.3	356.6	355.5
1242.1	17.5°	1229.9	1156.0	906.8	610.9	398.2	345.1	343.3	348.5	352.0	350.3
1279.6	20°	1262.9	1162.9	838.6	490.7	342.2	333.5	337.5	342.2	345.1	342.2
1329.9	22.5°	1309.1	1175.0	764.1	394.2	324.2	326.6	330.0	335.2	338.1	334.1
1394.1	25°	1365.8	1194.1	690.7	342.7	315.6	318.5	323.7	329.4	332.9	328.9
1475.0	27.5°	1439.2	1224.7	623.1	331.2	306.9	308.6	316.2	324.8	329.4	324.2
1590.0	30°	1545.5	1275.0	564.7	336.4	301.7	297.7	308.1	320.2	325.4	320.8
1746.6	32.5°	1686.5	1346.1	528.8	344.5	299.4	284.9	294.8	310.4	319.0	316.2
1951.2	35°	1871.5	1454.2	515.0	353.7	297.7	271.6	278.6	295.3	310.4	313.3
2209.0	37.5°	2095.7	1604.5	519.0	357.8	292.5	260.7	264.1	278.6	298.2	307.5
2499.2	40°	2350.6	1779.6	542.1	353.7	286.7	251.4	252.0	263.0	280.3	294.2
2811.3	42.5°	2613.6	1984.2	584.9	338.7	281.5	243.3	241.6	249.1	260.7	270.5
3122.8	45°	2863.9	2194.6	627.1	317.9	275.1	235.2	231.2	234.1	236.4	240.4
3426.2	47.5°	3082.3	2342.5	615.0	298.8	266.4	226.0	219.1	217.9	211.0	210.4
3697.3	50°	3233.2	2374.9	546.2	279.7	253.7	215.6	204.6	197.7	185.5	179.8
3900.2	52.5°	3281.2	2247.2	446.2	260.7	232.9	201.7	186.1	175.1	160.1	154.9
4016.9	55°	3217.6	1996.9	356.6	237.5	204.0	183.2	165.9	151.4	139.3	132.9
4029.6	57.5°	3062.1	1678.4	282.1	210.4	173.4	162.4	145.1	130.6	120.2	113.9
3888.6	60°	2804.3	1332.8	223.1	178.0	148.0	139.9	122.0	112.7	103.5	95.9
3524.5	62.5°	2413.0	951.3	175.1	141.0	123.7	114.4	104.0	97.1	86.1	75.7
2869.6	65°	1883.0	582.0	135.2	103.5	99.4	94.8	88.4	82.1	68.8	58.4
1872.1	67.5°	1187.7	275.7	96.5	78.0	78.6	76.3	73.4	68.2	58.4	49.1
838.6	70°	523.1	133.5	63.6	59.5	58.4	58.4	60.7	59.0	49.7	41.0
291.3	72.5°	178.0	71.7	47.4	45.1	42.2	41.6	50.9	49.1	39.9	31.8
145.1	75°	93.1	48.0	34.7	32.4	25.4	30.6	40.5	38.1	28.3	20.8
95.9	77.5°	60.7	34.1	23.7	20.8	14.4	20.2	30.1	26.6	16.8	10.4
63.0	80°	38.1	22.5	13.9	9.8	6.9	11.0	16.2	11.6	6.4	2.3
37.0	82.5°	20.2	11.6	5.2	3.5	2.9	3.5	4.0	2.9	1.2	0.0
19.1	85°	8.1	4.0	1.7	1.2	0.6	0.0	1.2	0.6	0.0	0.0
3.5	87.5°	2.9	0.6	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°
1143.2
1068.1
894.1
666.4
449.7
364.1
354.9
349.7
341.6
333.5
328.3
324.2
320.2
316.2
313.3
309.8
298.8
274.5
242.7
209.8
180.3
154.3
132.9
112.7
94.2
74.0
56.6
48.0
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