

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: P940878

Luminaire Tested: **GALN-SB4A-927-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940878
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-SB4A-927-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 350mA 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: 8286 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

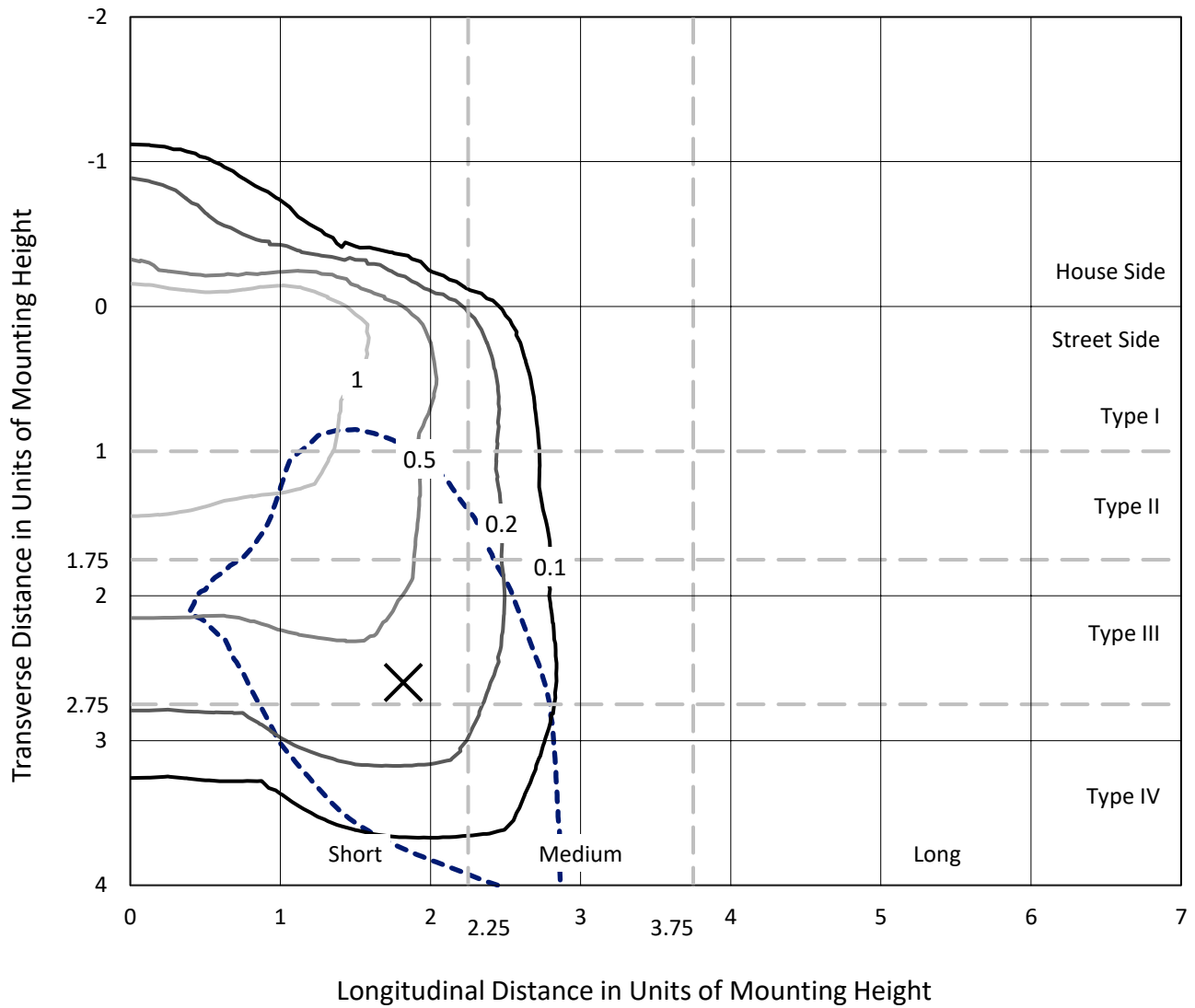
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

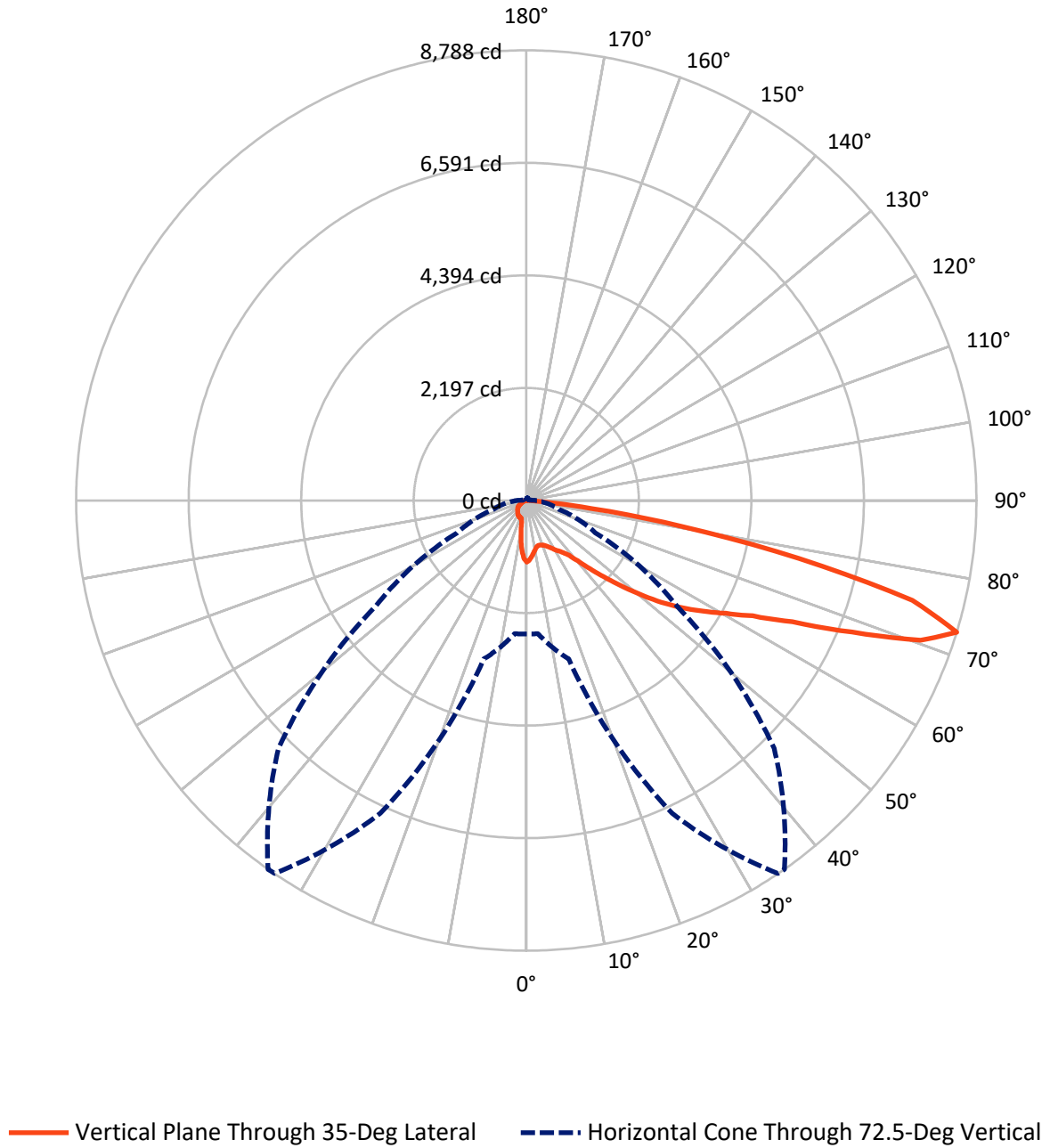
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	932.5	0.0	932.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	7353.4	0.0	7353.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	8286.0	0.0	8286.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	1.2
10°-20°	230.9	2.8
20°-30°	375.0	4.5
30°-40°	625.7	7.6
40°-50°	1183.9	14.3
50°-60°	1881.2	22.7
60°-70°	2327.2	28.1
70°-80°	1446.6	17.5
80°-90°	116.9	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°	8286.0	100.0
0°-180°	8286.0	100.0

Coefficient of Utilization



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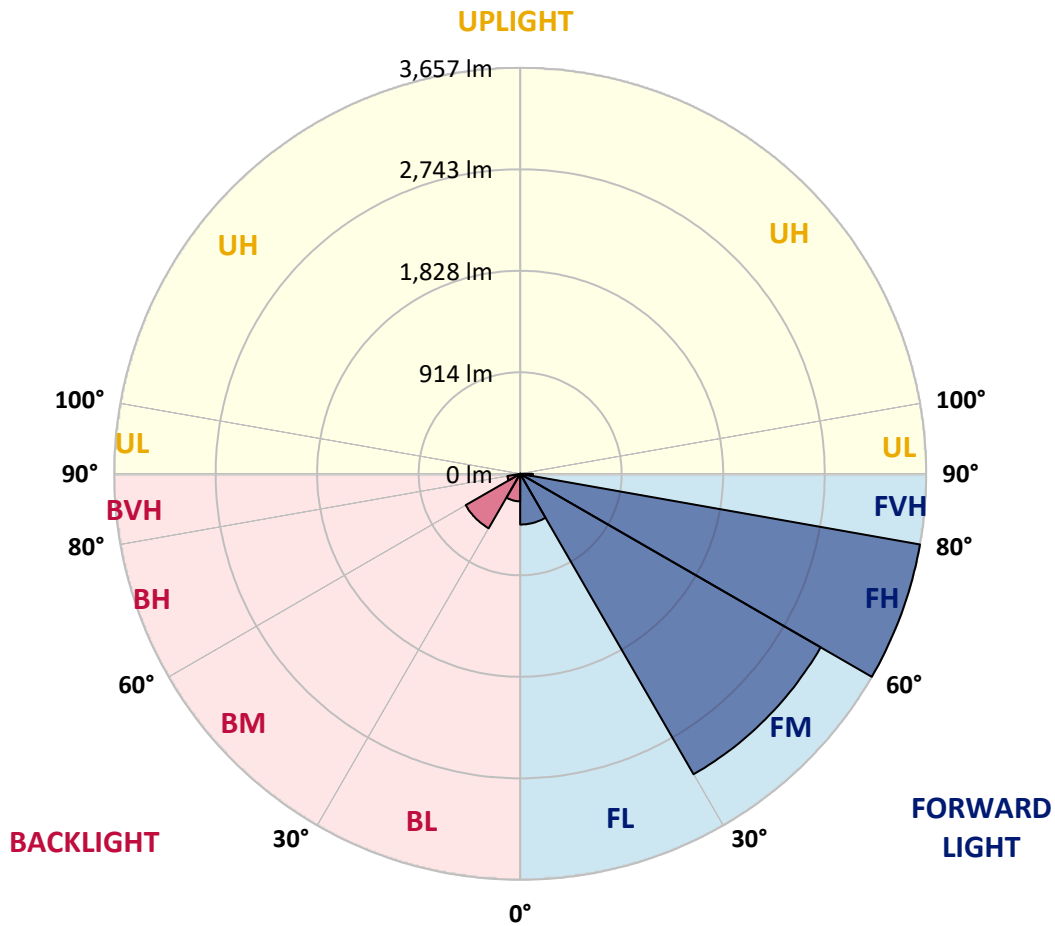
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	456.8	5.5			
FM (30°-60°)	3124.6	37.7			
FH (60°-80°)	3656.7	44.1			G2/5000
FVH (80°-90°)	115.3	1.4			G2/225
BL (0°-30°)	247.8	3.0	B1/500		
BM (30°-60°)	566.1	6.8	B1/1000		
BH (60°-80°)	117.0	1.4	B1/500		G1/500
BVH (80°-90°)	1.6	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°	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9
2.5°	1147.5	1157.2	1159.0	1162.1	1162.1	1165.7	1171.8	1180.3	1194.2	1201.5
5°	1057.6	1064.9	1074.0	1081.3	1095.3	1097.1	1120.8	1143.8	1176.0	1200.3
7.5°	967.2	975.7	987.8	1005.4	1023.6	1029.1	1064.9	1103.8	1154.8	1200.3
10°	903.4	904.0	915.0	932.6	961.7	968.4	1012.1	1067.3	1131.1	1193.0
12.5°	867.6	871.9	876.7	890.1	918.0	922.2	969.0	1034.0	1107.4	1188.8
15°	867.6	870.6	873.7	880.4	902.8	906.5	947.7	1012.7	1095.3	1190.6
17.5°	876.7	881.6	879.1	887.0	910.7	913.1	949.6	1006.6	1094.7	1202.1
20°	898.6	902.2	897.4	902.2	925.9	930.7	968.4	1018.2	1105.0	1222.2
22.5°	933.2	935.0	923.5	927.1	951.4	957.5	1001.2	1051.0	1129.9	1254.3
25°	976.9	980.5	962.9	967.2	990.2	997.5	1047.9	1100.1	1169.3	1298.7
27.5°	1027.3	1029.1	1013.9	1013.3	1043.1	1053.4	1104.4	1160.8	1222.2	1354.5
30°	1085.0	1090.4	1075.8	1073.4	1111.1	1119.6	1170.0	1235.5	1299.9	1438.3
32.5°	1130.5	1134.7	1126.2	1132.3	1170.6	1177.2	1249.5	1341.2	1421.9	1557.3
35°	1196.1	1198.5	1179.1	1190.0	1233.7	1250.7	1358.2	1489.3	1575.5	1706.7
37.5°	1433.5	1433.5	1350.9	1296.8	1338.7	1353.9	1506.9	1675.7	1765.0	1907.0
40°	1761.9	1756.5	1635.6	1525.1	1519.7	1549.4	1718.8	1910.7	2009.6	2147.4
42.5°	2112.2	2103.7	1939.2	1829.9	1811.7	1822.0	1963.5	2200.3	2301.1	2440.7
45°	2423.1	2420.7	2270.1	2123.2	2090.4	2123.2	2268.9	2539.1	2611.3	2758.2
47.5°	2683.6	2683.6	2573.7	2477.7	2460.7	2480.2	2682.3	2914.9	2908.2	3096.4
50°	2983.5	2981.0	2876.6	2835.3	2852.9	2880.3	3158.3	3310.7	3215.4	3428.5
52.5°	3193.5	3208.1	3172.3	3165.6	3255.5	3302.8	3641.6	3698.1	3490.4	3743.6
55°	3359.9	3376.9	3418.2	3464.9	3638.0	3699.9	4109.7	4065.4	3720.5	4016.8
57.5°	3595.5	3571.2	3634.9	3727.2	4007.1	4081.8	4563.3	4412.1	3905.7	4238.4
60°	3881.4	3885.1	3896.0	4012.6	4375.6	4471.6	5010.1	4739.9	4024.7	4374.4
62.5°	4225.1	4230.5	4253.0	4432.1	4870.5	4960.9	5486.1	5008.3	4079.4	4336.2
65°	4201.4	4224.5	4475.2	5087.8	5622.7	5712.0	6041.6	5196.5	3996.8	3986.5
67.5°	3827.4	3865.0	4284.6	5871.0	6756.8	6856.4	6713.1	5233.5	3640.4	3100.0
70°	3336.8	3350.2	3854.7	6575.3	8070.1	8170.9	7314.2	4826.1	2762.5	1729.1
72.5°	2605.8	2608.9	3200.8	6738.6	8782.9	8788.3	6842.4	3582.7	1485.7	664.2
75°	1861.5	1843.3	2143.8	5464.9	7727.0	7789.0	5129.7	1680.6	567.7	313.9
77.5°	998.1	1018.2	1213.1	3240.9	5338.0	5443.6	2798.9	484.5	289.0	213.7
80°	308.4	325.4	497.2	1483.8	3023.5	3087.3	1037.6	215.5	201.6	152.4
82.5°	97.1	100.8	231.9	623.5	1255.0	1284.1	300.5	122.0	137.8	100.8
85°	27.9	28.5	103.2	232.5	310.2	316.3	84.4	47.4	78.9	62.5
87.5°	3.0	9.7	38.9	38.9	27.3	26.7	9.1	10.3	22.5	7.9
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°
1200.9	0°	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9
1206.4	2.5°	1203.3	1204.0	1196.1	1182.7	1168.1	1156.0	1140.8	1128.7	1120.2	1117.7
1217.3	5°	1211.8	1207.6	1185.1	1144.5	1095.9	1054.0	1007.2	970.2	945.9	935.6
1228.8	7.5°	1224.6	1212.5	1163.3	1083.1	990.2	907.7	823.9	758.9	717.6	697.0
1239.8	10°	1235.5	1211.2	1126.8	994.5	852.4	727.4	614.4	536.1	492.4	471.7
1252.5	12.5°	1245.8	1210.6	1079.5	889.5	697.0	544.0	439.0	400.1	388.0	383.7
1273.2	15°	1265.3	1212.5	1020.0	769.2	542.2	411.0	372.8	372.2	374.6	373.4
1304.7	17.5°	1292.0	1214.3	952.6	641.7	418.3	362.5	360.6	366.1	369.7	367.9
1344.2	20°	1326.6	1221.6	881.0	515.5	359.4	350.3	354.6	359.4	362.5	359.4
1397.0	22.5°	1375.2	1234.3	802.6	414.1	340.6	343.0	346.7	352.1	355.2	350.9
1464.4	25°	1434.7	1254.3	725.5	360.0	331.5	334.5	340.0	346.1	349.7	345.5
1549.4	27.5°	1511.8	1286.5	654.5	347.9	322.4	324.2	332.1	341.2	346.1	340.6
1670.2	30°	1623.5	1339.3	593.2	353.4	316.9	312.7	323.6	336.4	341.8	337.0
1834.8	32.5°	1771.6	1414.0	555.5	361.9	314.5	299.3	309.6	326.0	335.1	332.1
2049.7	35°	1965.9	1527.6	541.0	371.6	312.7	285.4	292.6	310.2	326.0	329.1
2320.5	37.5°	2201.5	1685.4	545.2	375.8	307.2	273.8	277.5	292.6	313.3	323.0
2625.3	40°	2469.2	1869.4	569.5	371.6	301.1	264.1	264.7	276.2	294.5	309.0
2953.1	42.5°	2745.5	2084.3	614.4	355.8	295.7	255.6	253.8	261.7	273.8	284.1
3280.4	45°	3008.4	2305.3	658.7	333.9	289.0	247.1	242.9	245.9	248.3	252.6
3599.1	47.5°	3237.9	2460.7	646.0	313.9	279.9	237.4	230.1	228.9	221.6	221.0
3883.9	50°	3396.3	2494.7	573.7	293.9	266.5	226.5	214.9	207.6	194.9	188.8
4097.0	52.5°	3446.7	2360.6	468.7	273.8	244.7	211.9	195.5	184.0	168.2	162.7
4219.6	55°	3379.9	2097.7	374.6	249.5	214.3	192.5	174.2	159.1	146.3	139.6
4233.0	57.5°	3216.6	1763.1	296.3	221.0	182.1	170.6	152.4	137.2	126.3	119.6
4084.8	60°	2945.8	1400.1	234.4	187.0	155.4	146.9	128.1	118.4	108.7	100.8
3702.3	62.5°	2534.8	999.3	184.0	148.1	129.9	120.2	109.3	102.0	90.5	79.5
3014.4	65°	1978.1	611.4	142.1	108.7	104.4	99.6	92.9	86.2	72.2	61.3
1966.5	67.5°	1247.7	289.6	101.4	82.0	82.6	80.1	77.1	71.6	61.3	51.6
881.0	70°	549.5	140.2	66.8	62.5	61.3	61.3	63.7	61.9	52.2	43.1
306.0	72.5°	187.0	75.3	49.8	47.4	44.3	43.7	53.4	51.6	41.9	33.4
152.4	75°	97.7	50.4	36.4	34.0	26.7	32.2	42.5	40.1	29.7	21.9
100.8	77.5°	63.7	35.8	24.9	21.9	15.2	21.2	31.6	27.9	17.6	10.9
66.2	80°	40.1	23.7	14.6	10.3	7.3	11.5	17.0	12.1	6.7	2.4
38.9	82.5°	21.2	12.1	5.5	3.6	3.0	3.6	4.2	3.0	1.2	0.0
20.0	85°	8.5	4.2	1.8	1.2	0.6	0.0	1.2	0.6	0.0	0.0
3.6	87.5°	3.0	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°
1200.9
1122.0
939.2
700.0
472.4
382.5
372.8
367.3
358.8
350.3
344.9
340.6
336.4
332.1
329.1
325.4
313.9
288.4
255.0
220.4
189.4
162.1
139.6
118.4
99.0
77.7
59.5
50.4
41.3
31.6
20.0
9.7
1.8
0.0
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