

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: P948020

Luminaire Tested: **GALN-SB3A-940-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948020  
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-SB3A-940-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

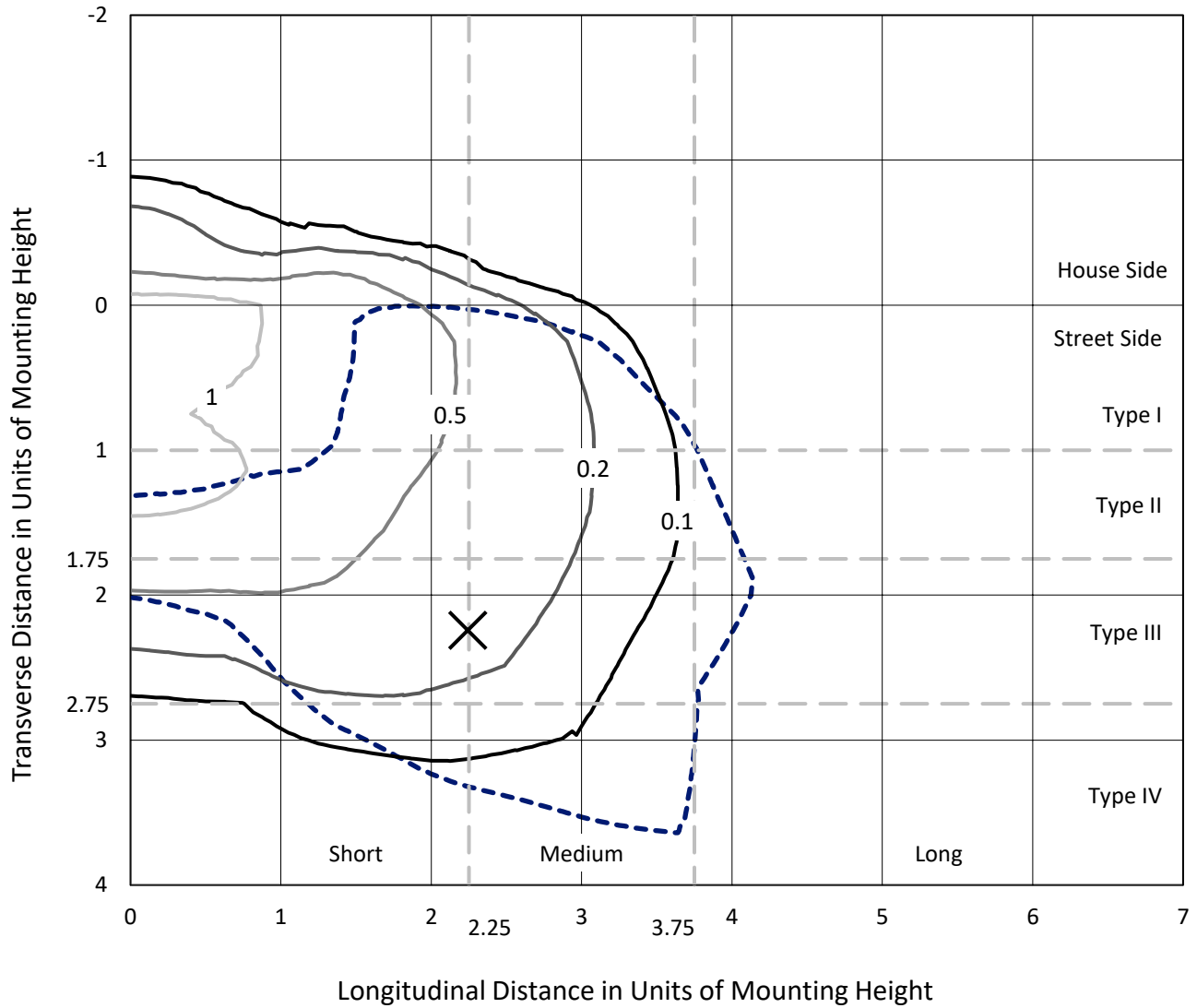
Lumens per Lamp: N/A  
Luminaire Lumens: 7513 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

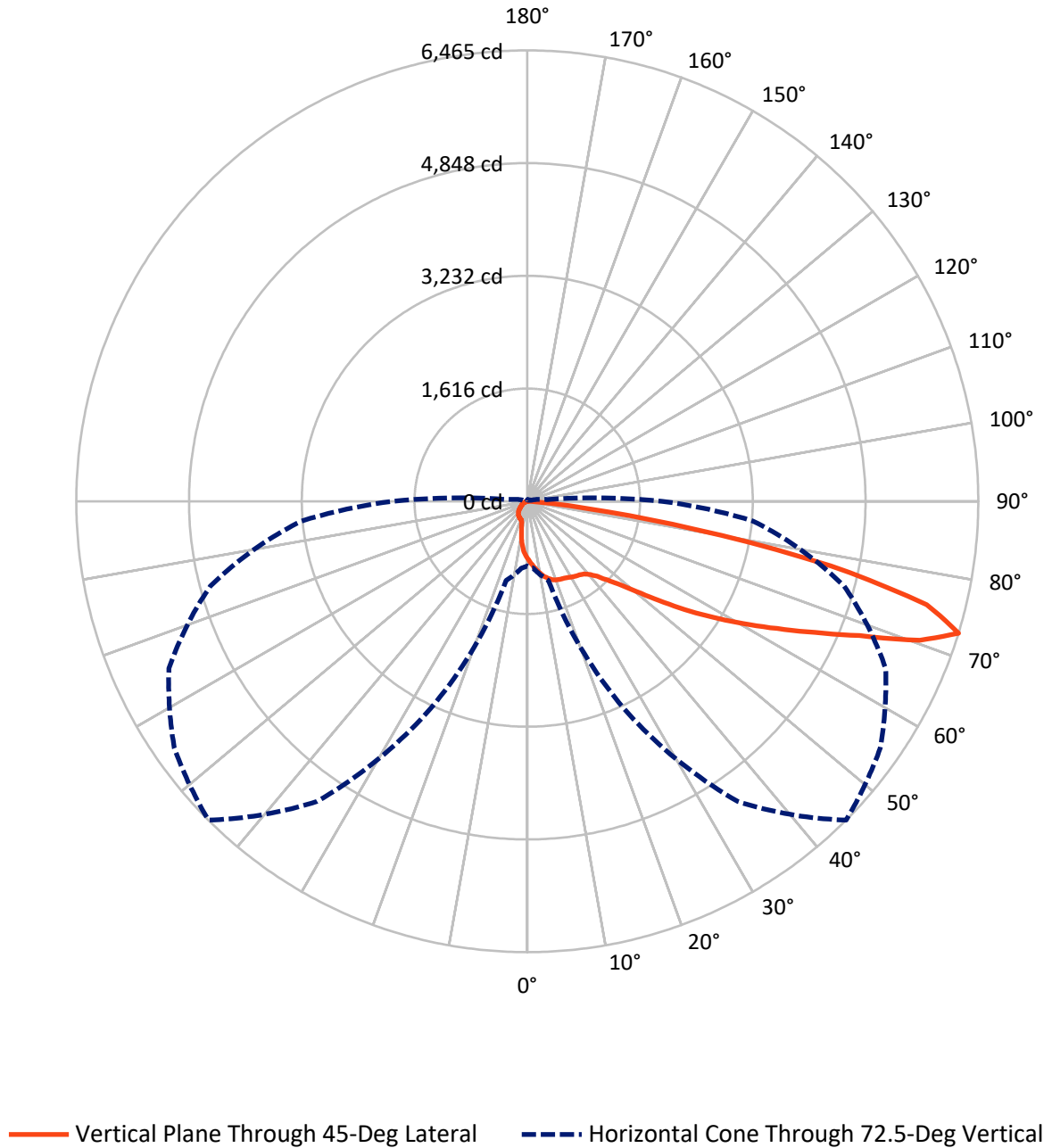
✕ Max cd  
 - - - 1/2 Max cd



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	789.4	0.0	789.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	6723.6	0.0	6723.6
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	7513.0	0.0	7513.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.5	1.0
10°-20°	226.6	3.0
20°-30°	372.2	5.0
30°-40°	527.8	7.0
40°-50°	872.5	11.6
50°-60°	1567.3	20.9
60°-70°	2176.3	29.0
70°-80°	1578.6	21.0
80°-90°	114.1	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°	7513.0	100.0
0°-180°	7513.0	100.0

**Coefficient of Utilization**



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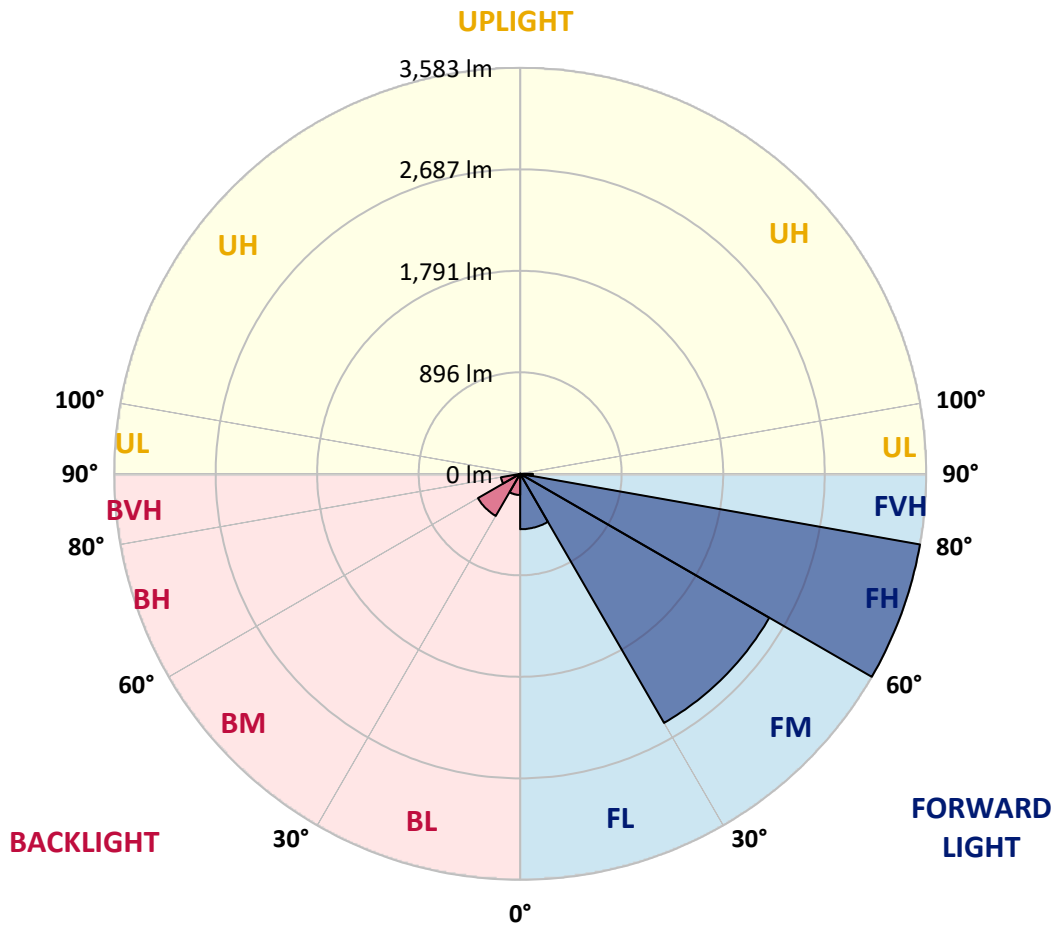
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	489.4	6.5			
FM (30°-60°)	2538.3	33.8			
FH (60°-80°)	3582.7	47.7			G2/5000
FVH (80°-90°)	113.2	1.5			G2/225
BL (0°-30°)	187.0	2.5	B1/500		
BM (30°-60°)	429.3	5.7	B1/1000		
BH (60°-80°)	172.1	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°	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1
2.5°	899.0	900.5	899.5	893.3	883.1	877.4	874.3	864.1	857.4	845.6
5°	981.5	987.7	984.1	971.8	952.3	938.4	934.3	913.3	894.3	872.3
7.5°	1069.2	1072.3	1065.6	1049.7	1023.6	1000.0	996.4	967.2	936.9	903.1
10°	1145.1	1148.7	1138.4	1115.4	1085.6	1056.4	1051.3	1019.0	983.1	941.5
12.5°	1208.7	1212.3	1199.0	1171.3	1138.4	1108.2	1103.1	1069.2	1029.7	983.6
15°	1256.9	1263.6	1245.6	1215.9	1180.5	1150.2	1147.7	1114.3	1075.9	1024.6
17.5°	1285.1	1291.8	1274.9	1239.0	1208.7	1183.1	1180.0	1152.3	1116.4	1067.2
20°	1289.7	1295.9	1277.9	1246.6	1221.5	1201.0	1199.5	1179.5	1153.3	1106.1
22.5°	1275.9	1283.6	1267.2	1242.0	1224.6	1213.8	1211.8	1200.5	1185.6	1145.6
25°	1261.5	1267.7	1255.4	1233.3	1224.1	1223.1	1224.6	1222.5	1219.5	1185.6
27.5°	1260.5	1267.2	1253.3	1232.3	1227.2	1237.9	1239.5	1249.2	1251.8	1222.0
30°	1269.2	1273.8	1260.5	1238.4	1235.9	1260.5	1261.0	1278.4	1282.5	1252.8
32.5°	1288.2	1293.3	1280.0	1247.7	1244.1	1278.4	1280.0	1303.1	1309.7	1285.6
35°	1332.8	1339.0	1323.6	1273.3	1260.5	1295.4	1300.0	1327.2	1340.5	1320.5
37.5°	1444.1	1426.1	1405.1	1325.1	1297.9	1322.0	1329.7	1361.5	1385.1	1362.0
40°	1720.5	1664.1	1598.4	1413.3	1363.6	1379.0	1385.1	1416.9	1449.2	1426.6
42.5°	2135.4	2068.7	1963.0	1616.4	1462.5	1470.2	1474.9	1502.5	1548.2	1530.2
45°	2505.1	2481.0	2373.3	1963.0	1647.7	1609.7	1615.4	1629.7	1696.9	1690.2
47.5°	2789.2	2775.3	2692.3	2361.0	1960.5	1780.5	1796.4	1803.1	1900.0	1923.6
50°	3007.6	3002.5	2928.2	2714.8	2369.2	2032.3	2037.9	2023.6	2168.7	2227.1
52.5°	3213.8	3231.2	3176.4	3043.5	2805.6	2362.0	2361.0	2293.3	2489.2	2577.4
55°	3400.0	3406.1	3411.7	3378.9	3244.6	2737.4	2727.7	2616.9	2861.0	2952.3
57.5°	3574.8	3577.4	3627.6	3694.8	3701.5	3140.5	3122.5	2989.7	3267.1	3332.3
60°	3692.3	3704.0	3810.2	3996.9	4078.4	3556.4	3546.6	3411.2	3680.5	3710.7
62.5°	3523.0	3594.8	3862.5	4232.8	4434.3	4017.4	4012.8	3885.6	4115.3	4090.7
65°	2851.8	2973.3	3444.1	4392.2	4783.5	4532.2	4538.9	4403.5	4562.0	4482.0
67.5°	1994.8	2123.0	2680.0	4405.1	5173.8	5136.8	5175.3	4963.0	5036.3	4856.9
70°	1379.5	1445.6	1808.2	4129.2	5477.9	5969.7	5968.6	5650.2	5508.1	5027.6
72.5°	927.7	962.0	1174.3	3275.9	5254.3	6464.5	6434.8	6175.3	5667.1	4702.0
75°	391.3	416.4	543.6	1841.0	4156.9	5914.3	5833.8	5457.4	5035.3	3702.5
77.5°	124.1	134.9	214.4	659.0	2289.7	4445.6	4360.5	3408.2	3374.8	1857.4
80°	59.0	68.7	120.5	264.6	901.0	2417.9	2406.1	1546.1	1451.8	501.5
82.5°	25.6	30.3	66.7	141.5	403.1	862.6	880.0	526.1	435.4	190.3
85°	8.2	10.8	30.8	65.1	170.3	214.4	211.8	125.1	175.4	103.6
87.5°	0.0	0.0	10.3	14.9	17.4	12.3	13.8	10.8	48.7	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°
823.1	0°	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1
833.3	2.5°	827.2	819.0	804.6	791.3	779.5	767.7	760.5	750.2	749.2	749.2
846.7	5°	832.8	819.5	793.8	766.7	735.4	705.6	675.9	647.2	637.9	631.3
868.2	7.5°	849.2	828.2	787.7	735.9	676.4	611.3	565.6	516.4	497.4	487.2
896.9	10°	872.8	844.1	782.6	691.8	595.4	506.7	441.5	388.2	367.7	359.0
928.2	12.5°	899.0	863.6	773.3	636.9	506.7	400.5	336.9	312.3	309.2	309.2
965.6	15°	930.2	887.2	757.4	572.3	413.8	316.9	294.4	295.4	298.5	300.5
1002.0	17.5°	962.6	912.3	732.3	500.0	331.8	285.1	285.6	287.2	289.7	291.8
1041.5	20°	997.4	937.4	699.0	423.1	284.6	275.9	277.4	279.0	281.0	282.0
1078.4	22.5°	1034.9	961.0	659.5	347.7	268.7	268.2	268.7	270.3	272.8	272.8
1121.5	25°	1074.9	987.2	614.4	292.8	260.5	260.5	261.5	262.6	264.6	264.6
1163.1	27.5°	1115.9	1011.3	566.7	264.1	253.3	252.8	252.8	254.4	255.4	255.9
1204.1	30°	1161.0	1039.5	519.0	257.9	247.7	245.1	243.6	244.6	245.6	246.2
1247.2	32.5°	1207.2	1066.7	476.4	260.5	242.0	237.4	232.3	231.3	231.3	233.3
1291.8	35°	1258.4	1096.4	443.6	269.2	239.0	226.2	217.9	213.3	213.8	216.9
1345.1	37.5°	1320.0	1132.3	419.5	276.9	236.9	213.3	200.0	194.4	190.8	194.4
1418.4	40°	1400.5	1185.1	402.0	283.1	234.4	198.5	180.5	171.3	164.6	166.7
1532.3	42.5°	1519.0	1268.2	395.4	283.6	228.7	181.0	160.5	148.2	138.5	139.0
1703.6	45°	1685.1	1399.5	429.7	276.9	216.4	162.0	139.5	123.1	116.9	115.4
1959.5	47.5°	1912.8	1590.7	509.2	263.1	198.5	143.6	119.0	105.1	100.5	97.9
2295.4	50°	2217.9	1836.4	597.4	247.7	180.5	126.2	102.0	93.3	90.3	87.7
2693.8	52.5°	2571.8	2085.6	669.7	232.3	162.6	110.8	91.3	86.2	83.6	81.5
3078.4	55°	2896.4	2257.4	665.6	215.9	145.1	98.5	83.6	80.5	77.4	75.4
3409.7	57.5°	3098.4	2281.5	548.7	197.9	125.1	88.7	76.4	74.4	70.8	68.2
3696.4	60°	3191.2	2144.1	384.6	174.4	105.1	79.5	68.7	67.7	63.1	59.5
3967.6	62.5°	3208.2	1888.7	256.4	145.1	87.7	70.8	61.0	59.5	53.3	47.2
4188.1	65°	3139.4	1523.6	177.4	113.3	74.9	61.5	52.3	49.2	42.6	36.4
4240.5	67.5°	2922.0	1069.7	123.6	81.5	63.6	48.7	41.5	40.5	35.4	30.3
3973.8	70°	2523.6	609.7	82.6	61.0	50.3	33.3	32.8	33.8	28.7	24.6
3246.6	72.5°	1934.8	279.0	51.3	44.6	34.4	22.6	26.2	26.7	22.1	18.5
2025.6	75°	1139.0	119.5	32.3	28.7	17.4	14.9	19.0	19.5	14.9	11.8
740.5	77.5°	387.7	45.1	20.5	16.9	8.7	8.2	12.3	12.3	8.2	4.6
148.7	80°	88.2	16.9	10.3	6.7	4.1	3.6	4.1	3.6	2.1	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>
823.1
751.8
634.3
488.7
359.0
309.2
300.5
291.8
282.6
273.8
265.1
256.4
247.2
234.9
218.5
193.3
165.6
136.9
113.3
96.4
87.2
81.0
74.4
67.7
58.5
44.1
34.4
28.7
22.6
16.4
10.3
3.6
0.0
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