

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: P947243

Luminaire Tested: **GALN-SB2C-927-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947243  
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-SB2C-927-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

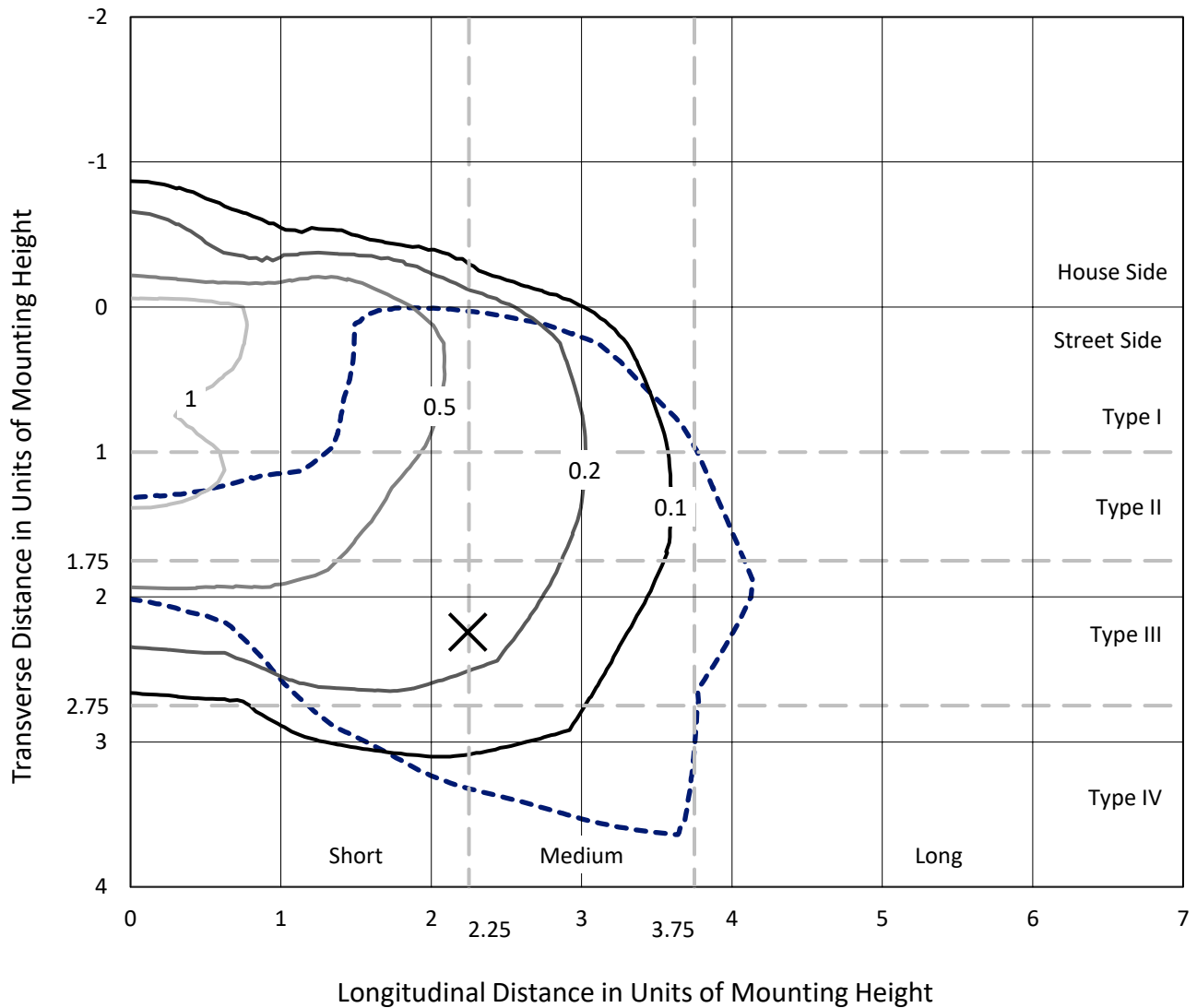
Lumens per Lamp: N/A  
Luminaire Lumens: 7022 lumens  
Efficiency: N/A  
Efficacy: 69.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

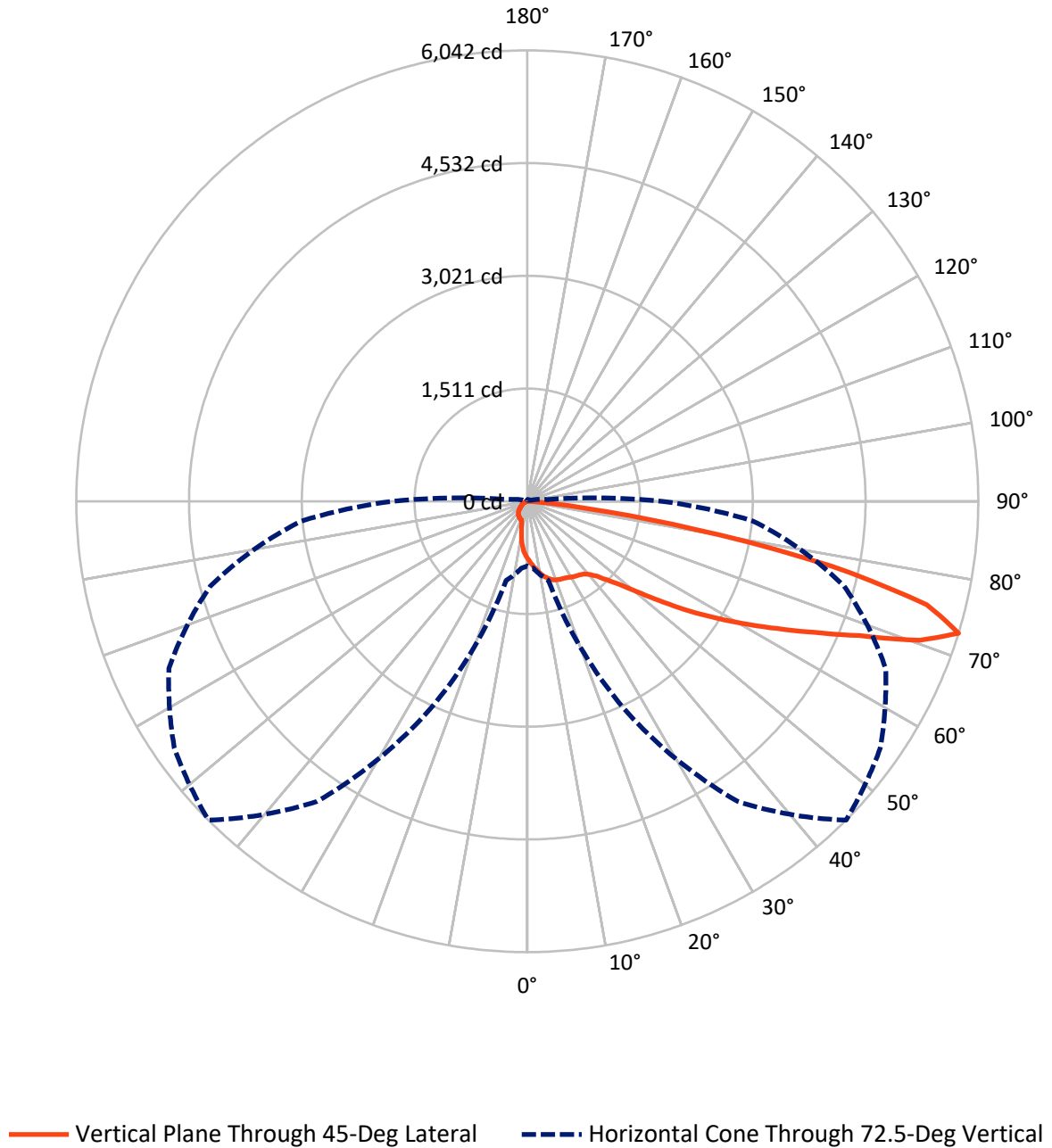
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	737.8	0.0	737.8
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	6284.2	0.0	6284.2
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	7022.0	0.0	7022.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.5	1.0
10°-20°	211.8	3.0
20°-30°	347.9	5.0
30°-40°	493.3	7.0
40°-50°	815.5	11.6
50°-60°	1464.9	20.9
60°-70°	2034.0	29.0
70°-80°	1475.4	21.0
80°-90°	106.7	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°	7022.0	100.0
0°-180°	7022.0	100.0

**Coefficient of Utilization**



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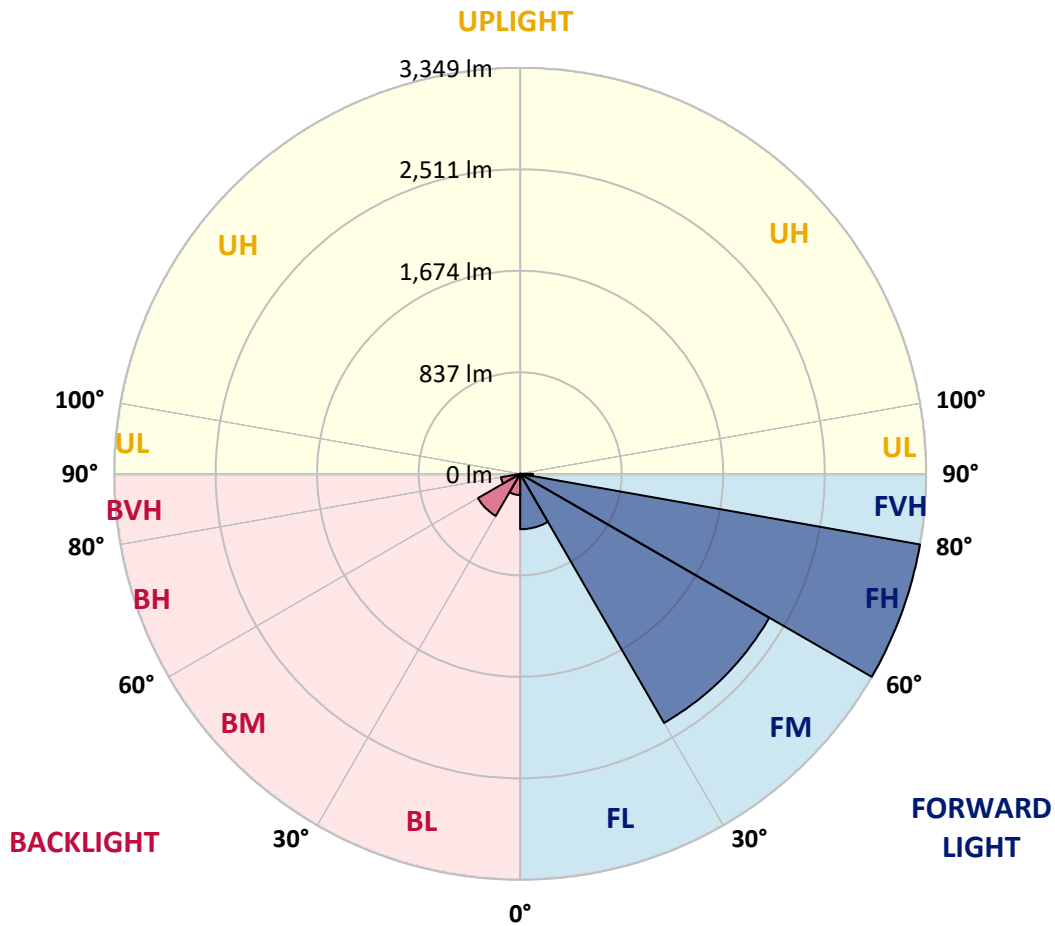
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	457.4	6.5			
FM (30°-60°)	2372.4	33.8			
FH (60°-80°)	3348.6	47.7			G2/5000
FVH (80°-90°)	105.8	1.5			G2/225
BL (0°-30°)	174.8	2.5	B1/500		
BM (30°-60°)	401.3	5.7	B1/1000		
BH (60°-80°)	160.9	2.3	B1/500		G1/500
BVH (80°-90°)	0.9	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°	769.3	769.3	769.3	769.3	769.3	769.3	769.3	769.3	769.3	769.3
2.5°	840.2	841.6	840.7	834.9	825.4	820.1	817.2	807.6	801.4	790.4
5°	917.4	923.1	919.8	908.3	890.1	877.1	873.3	853.6	835.9	815.3
7.5°	999.3	1002.2	996.0	981.1	956.7	934.6	931.3	904.0	875.7	844.0
10°	1070.3	1073.6	1064.0	1042.5	1014.7	987.4	982.6	952.4	918.8	880.0
12.5°	1129.7	1133.1	1120.6	1094.7	1064.0	1035.8	1031.0	999.3	962.4	919.3
15°	1174.8	1181.0	1164.2	1136.4	1103.3	1075.1	1072.7	1041.5	1005.6	957.6
17.5°	1201.1	1207.4	1191.5	1158.0	1129.7	1105.7	1102.9	1077.0	1043.4	997.4
20°	1205.4	1211.2	1194.4	1165.2	1141.7	1122.5	1121.1	1102.4	1077.9	1033.8
22.5°	1192.5	1199.7	1184.3	1160.9	1144.6	1134.5	1132.6	1122.0	1108.1	1070.8
25°	1179.1	1184.8	1173.3	1152.7	1144.1	1143.1	1144.6	1142.6	1139.8	1108.1
27.5°	1178.1	1184.3	1171.4	1151.8	1147.0	1157.0	1158.5	1167.6	1170.0	1142.2
30°	1186.3	1190.6	1178.1	1157.5	1155.1	1178.1	1178.6	1194.9	1198.7	1170.9
32.5°	1204.0	1208.8	1196.3	1166.1	1162.8	1194.9	1196.3	1217.9	1224.1	1201.6
35°	1245.7	1251.4	1237.1	1190.1	1178.1	1210.7	1215.0	1240.4	1252.9	1234.2
37.5°	1349.7	1332.9	1313.3	1238.5	1213.1	1235.6	1242.8	1272.5	1294.6	1273.0
40°	1608.0	1555.3	1494.0	1320.9	1274.5	1288.8	1294.6	1324.3	1354.5	1333.4
42.5°	1995.8	1933.5	1834.8	1510.8	1367.0	1374.2	1378.5	1404.3	1447.0	1430.2
45°	2341.4	2318.8	2218.2	1834.8	1540.0	1504.5	1509.8	1523.2	1586.0	1579.8
47.5°	2606.9	2594.0	2516.3	2206.7	1832.4	1664.1	1679.0	1685.2	1775.8	1797.9
50°	2811.1	2806.3	2736.8	2537.4	2214.4	1899.5	1904.7	1891.3	2027.0	2081.6
52.5°	3003.8	3020.1	2968.8	2844.6	2622.2	2207.7	2206.7	2143.4	2326.5	2409.0
55°	3177.8	3183.5	3188.8	3158.1	3032.5	2558.5	2549.4	2445.9	2674.0	2759.3
57.5°	3341.2	3343.6	3390.6	3453.3	3459.6	2935.2	2918.5	2794.3	3053.6	3114.5
60°	3451.0	3462.0	3561.2	3735.7	3811.9	3323.9	3314.8	3188.3	3439.9	3468.2
62.5°	3292.8	3359.9	3610.1	3956.1	4144.5	3754.8	3750.5	3631.6	3846.4	3823.4
65°	2665.4	2779.0	3219.0	4105.2	4470.9	4236.0	4242.3	4115.7	4263.8	4189.1
67.5°	1864.5	1984.3	2504.8	4117.2	4835.6	4801.1	4837.1	4638.7	4707.2	4539.4
70°	1289.3	1351.1	1690.0	3859.3	5119.9	5579.5	5578.6	5280.9	5148.2	4699.0
72.5°	867.1	899.2	1097.6	3061.8	4910.9	6042.0	6014.2	5771.7	5296.7	4394.7
75°	365.7	389.2	508.1	1720.7	3885.2	5527.8	5452.5	5100.7	4706.2	3460.5
77.5°	116.0	126.1	200.3	615.9	2140.1	4155.0	4075.5	3185.4	3154.3	1736.0
80°	55.1	64.2	112.6	247.3	842.1	2259.9	2248.9	1445.1	1356.9	468.8
82.5°	24.0	28.3	62.3	132.3	376.7	806.2	822.5	491.8	406.9	177.8
85°	7.7	10.1	28.8	60.9	159.1	200.3	198.0	116.9	163.9	96.8
87.5°	0.0	0.0	9.6	13.9	16.3	11.5	12.9	10.1	45.5	26.8
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°
769.3	0°	769.3	769.3	769.3	769.3	769.3	769.3	769.3	769.3	769.3	769.3
778.9	2.5°	773.1	765.4	752.0	739.6	728.5	717.5	710.8	701.2	700.3	700.3
791.3	5°	778.4	765.9	742.0	716.6	687.3	659.5	631.7	604.9	596.2	590.0
811.5	7.5°	793.7	774.1	736.2	687.8	632.2	571.3	528.7	482.7	464.9	455.3
838.3	10°	815.8	788.9	731.4	646.6	556.5	473.5	412.7	362.8	343.7	335.5
867.5	12.5°	840.2	807.1	722.8	595.3	473.5	374.3	314.9	291.9	289.0	289.0
902.5	15°	869.4	829.2	707.9	534.9	386.8	296.2	275.1	276.1	279.0	280.9
936.6	17.5°	899.6	852.7	684.4	467.3	310.1	266.5	267.0	268.4	270.8	272.7
973.5	20°	932.2	876.2	653.3	395.4	266.0	257.9	259.3	260.7	262.7	263.6
1008.0	22.5°	967.2	898.2	616.4	325.0	251.2	250.7	251.2	252.6	255.0	255.0
1048.2	25°	1004.6	922.7	574.2	273.7	243.5	243.5	244.4	245.4	247.3	247.3
1087.1	27.5°	1043.0	945.2	529.6	246.8	236.8	236.3	236.3	237.7	238.7	239.2
1125.4	30°	1085.1	971.5	485.1	241.1	231.5	229.1	227.7	228.6	229.6	230.1
1165.7	32.5°	1128.3	996.9	445.3	243.5	226.2	221.9	217.1	216.2	216.2	218.1
1207.4	35°	1176.2	1024.7	414.6	251.6	223.4	211.4	203.7	199.4	199.9	202.7
1257.2	37.5°	1233.7	1058.3	392.1	258.8	221.4	199.4	186.9	181.7	178.3	181.7
1325.7	40°	1309.0	1107.7	375.8	264.6	219.0	185.5	168.7	160.1	153.9	155.8
1432.1	42.5°	1419.7	1185.3	369.5	265.1	213.8	169.2	150.0	138.5	129.4	129.9
1592.2	45°	1575.0	1308.0	401.7	258.8	202.3	151.5	130.4	115.0	109.3	107.8
1831.4	47.5°	1787.8	1486.8	475.9	245.9	185.5	134.2	111.2	98.3	93.9	91.5
2145.3	50°	2073.0	1716.4	558.4	231.5	168.7	117.9	95.4	87.2	84.4	82.0
2517.8	52.5°	2403.7	1949.3	626.0	217.1	151.9	103.5	85.3	80.5	78.1	76.2
2877.2	55°	2707.1	2109.9	622.1	201.8	135.6	92.0	78.1	75.2	72.4	70.5
3186.9	57.5°	2895.9	2132.4	512.9	185.0	116.9	82.9	71.4	69.5	66.1	63.7
3454.8	60°	2982.7	2003.9	359.5	163.0	98.3	74.3	64.2	63.3	59.0	55.6
3708.3	62.5°	2998.5	1765.3	239.6	135.6	82.0	66.1	57.0	55.6	49.8	44.1
3914.4	65°	2934.3	1424.0	165.8	105.9	70.0	57.5	48.9	46.0	39.8	34.0
3963.3	67.5°	2731.0	999.8	115.5	76.2	59.4	45.5	38.8	37.9	33.1	28.3
3714.1	70°	2358.6	569.9	77.2	57.0	47.0	31.2	30.7	31.6	26.8	23.0
3034.4	72.5°	1808.4	260.7	47.9	41.7	32.1	21.1	24.4	24.9	20.6	17.3
1893.2	75°	1064.5	111.7	30.2	26.8	16.3	13.9	17.7	18.2	13.9	11.0
692.1	77.5°	362.4	42.2	19.2	15.8	8.1	7.7	11.5	11.5	7.7	4.3
139.0	80°	82.4	15.8	9.6	6.2	3.8	3.4	3.8	3.4	1.9	0.5
42.7	82.5°	23.5	6.2	3.8	2.4	1.4	1.4	0.5	0.0	0.0	0.0
14.9	85°	6.7	2.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
5.3	87.5°	2.9	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>
769.3
702.7
592.9
456.8
335.5
289.0
280.9
272.7
264.1
255.9
247.8
239.6
231.0
219.5
204.2
180.7
154.8
128.0
105.9
90.1
81.5
75.7
69.5
63.3
54.6
41.2
32.1
26.8
21.1
15.3
9.6
3.4
0.0
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