

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: P939634

Luminaire Tested: **GALN-SB2B-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7151 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

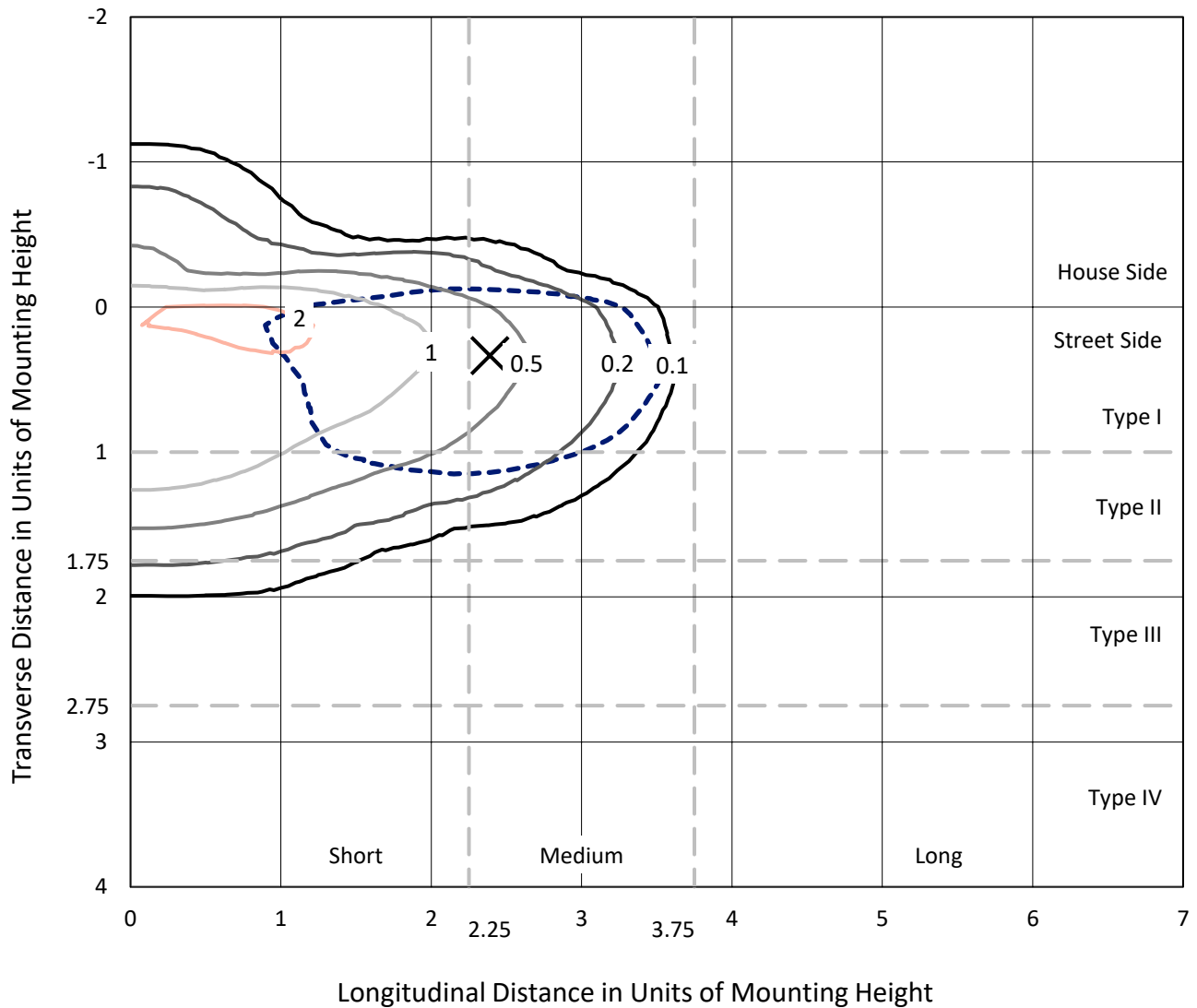
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

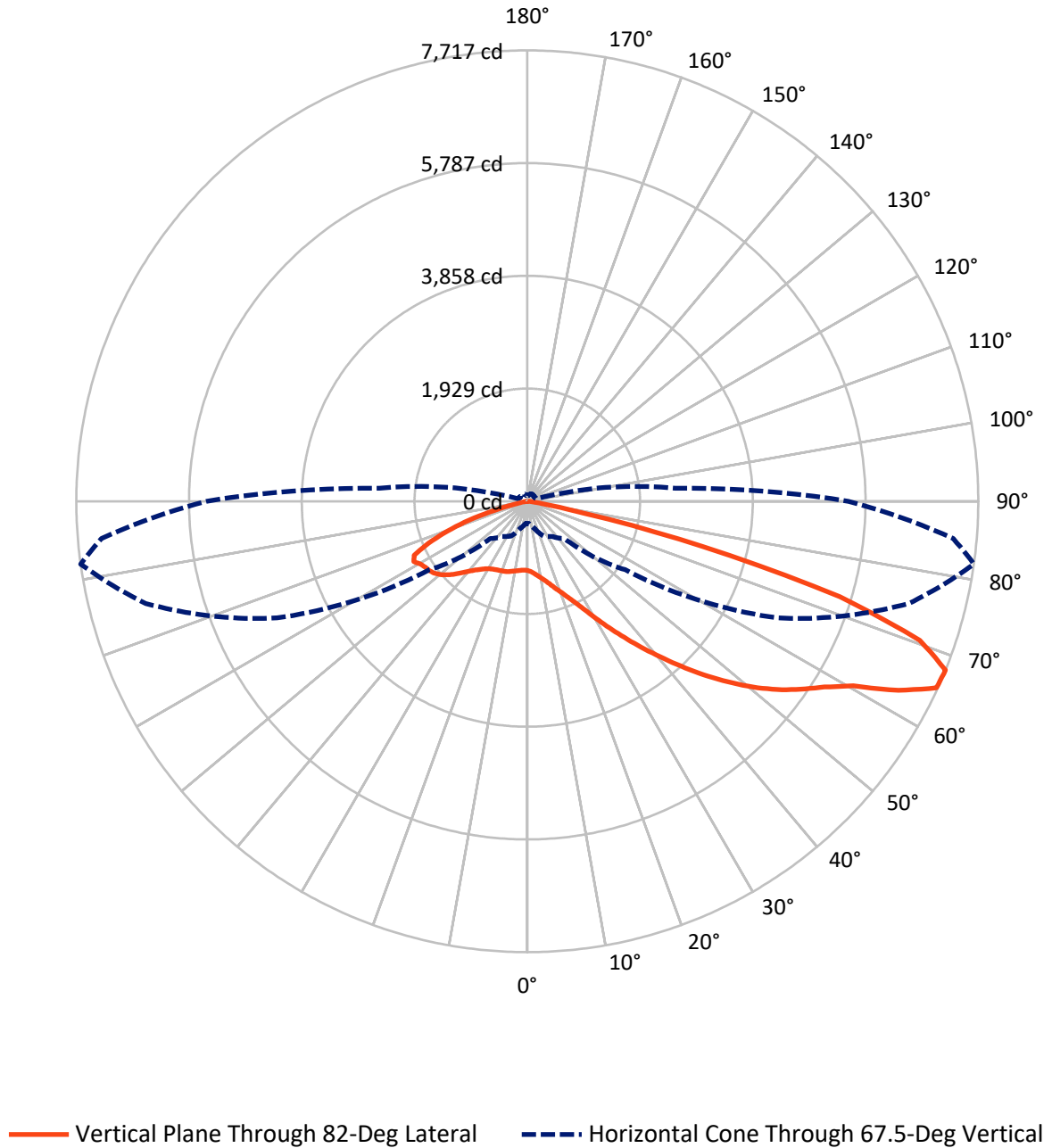
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1295.3	0.0	1295.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5855.7	0.0	5855.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	7151.0	0.0	7151.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.5	1.5
10°-20°	274.3	3.8
20°-30°	439.3	6.1
30°-40°	776.8	10.9
40°-50°	1361.0	19.0
50°-60°	1815.3	25.4
60°-70°	1689.9	23.6
70°-80°	648.6	9.1
80°-90°	40.3	0.6
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°	7151.0	100.0
0°-180°	7151.0	100.0

Coefficient of Utilization



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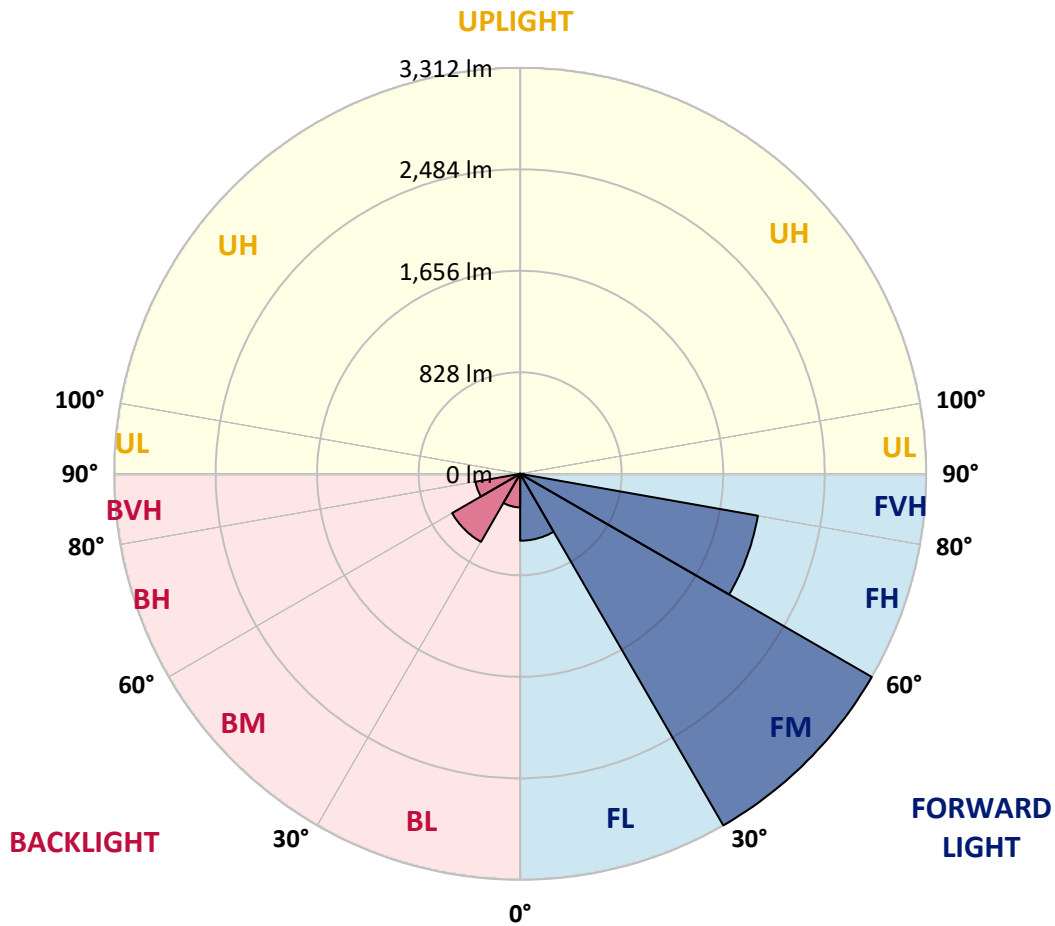
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	545.5	7.6			
FM (30°-60°)	3312.1	46.3			
FH (60°-80°)	1968.8	27.5			G2/5000
FVH (80°-90°)	29.3	0.4			G1/100
BL (0°-30°)	273.6	3.8	B1/500		
BM (30°-60°)	641.1	9.0	B1/1000		
BH (60°-80°)	369.7	5.2	B1/500		G1/500
BVH (80°-90°)	11.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1184.7	1184.7	1184.7	1184.7	1184.7	1184.7	1184.7	1184.7	1184.7	1184.7
2.5°	1252.1	1259.3	1255.2	1253.2	1249.6	1244.4	1240.3	1227.4	1214.0	1205.3
5°	1277.4	1284.6	1284.0	1286.1	1288.7	1290.2	1289.2	1274.8	1255.7	1240.8
7.5°	1255.7	1264.0	1270.7	1281.0	1299.0	1318.0	1327.3	1324.2	1304.6	1284.0
10°	1194.5	1203.2	1219.2	1243.4	1281.5	1322.7	1357.2	1373.1	1360.8	1338.1
12.5°	1082.2	1091.0	1122.4	1174.9	1238.7	1310.3	1376.2	1418.9	1422.0	1399.4
15°	956.1	964.8	998.3	1064.2	1161.5	1276.3	1386.5	1467.3	1494.6	1475.1
17.5°	877.8	885.5	910.8	963.8	1065.2	1208.4	1382.9	1518.8	1581.1	1565.7
20°	854.1	860.8	872.7	909.7	994.2	1137.8	1359.2	1567.2	1674.3	1665.6
22.5°	879.4	885.5	889.2	905.6	958.7	1091.5	1329.4	1616.6	1782.4	1783.5
25°	937.5	943.7	939.6	949.9	973.1	1077.1	1318.0	1674.8	1918.3	1929.7
27.5°	1033.3	1033.8	1024.0	1023.5	1027.1	1098.7	1329.9	1737.1	2089.8	2110.9
30°	1225.4	1217.6	1180.0	1139.4	1120.8	1163.6	1362.8	1810.7	2292.1	2329.7
32.5°	1521.4	1510.1	1441.1	1343.8	1245.9	1268.1	1422.0	1894.7	2512.5	2580.4
35°	1842.7	1839.6	1767.5	1622.8	1451.9	1416.9	1518.3	2004.8	2752.9	2861.0
37.5°	2141.3	2139.7	2098.5	1928.1	1720.1	1624.4	1672.8	2149.0	3010.4	3166.9
40°	2414.1	2418.8	2377.6	2225.2	2015.7	1890.5	1882.8	2327.1	3296.6	3500.0
42.5°	2650.0	2655.1	2613.4	2500.6	2307.6	2185.0	2140.8	2545.4	3576.2	3857.8
45°	2810.1	2842.0	2835.8	2745.7	2607.2	2480.1	2450.7	2819.3	3894.9	4237.2
47.5°	2855.4	2884.7	2931.1	2943.4	2859.0	2733.9	2768.9	3149.4	4217.2	4617.2
50°	2743.7	2770.9	2867.2	2995.4	3054.1	3015.5	3078.3	3503.1	4547.2	4996.1
52.5°	2523.3	2551.1	2672.6	2875.5	3114.9	3236.4	3388.8	3851.6	4866.9	5355.0
55°	2204.6	2234.0	2390.0	2619.6	2999.0	3327.5	3647.7	4199.7	5159.9	5677.8
57.5°	1771.1	1792.7	1954.9	2276.2	2707.6	3236.9	3838.8	4579.6	5435.8	5995.0
60°	1154.3	1173.4	1361.8	1720.1	2224.7	2934.2	3876.8	5003.3	5802.4	6407.4
62.5°	767.6	780.5	892.2	1155.3	1566.7	2352.9	3653.9	5341.6	6339.9	7125.1
65°	526.7	539.6	651.3	834.6	1012.2	1556.4	3012.9	5296.8	6827.0	7695.0
67.5°	375.8	386.7	481.4	654.4	732.6	904.1	2042.4	4724.3	6756.9	7716.6
70°	269.3	275.4	353.7	509.7	582.3	543.2	1135.8	3613.2	5916.2	7125.6
72.5°	188.4	190.5	245.6	388.2	469.0	396.4	540.6	2409.0	4474.6	5592.9
75°	127.7	130.3	165.3	284.7	376.4	302.7	286.3	1291.8	2626.8	3095.8
77.5°	78.3	79.3	106.6	194.6	281.6	230.7	184.3	547.3	1016.3	997.8
80°	44.3	44.3	68.0	121.0	192.0	148.8	129.2	232.7	321.8	282.7
82.5°	24.7	25.2	49.4	75.2	127.2	88.0	71.0	107.6	139.0	123.1
85°	10.3	11.3	30.4	35.5	60.8	43.8	28.8	45.3	51.5	45.8
87.5°	1.0	1.5	9.3	6.7	7.2	8.8	4.1	8.8	7.2	7.2
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°
1184.7	0°	1184.7	1184.7	1184.7	1184.7	1184.7	1184.7	1184.7	1184.7	1184.7	1184.7
1202.2	2.5°	1192.4	1184.7	1165.1	1142.5	1112.6	1098.2	1078.6	1065.2	1053.9	1054.9
1232.0	5°	1215.6	1196.0	1152.2	1097.7	1029.7	981.3	929.8	894.3	865.5	859.3
1273.2	7.5°	1247.5	1216.6	1139.9	1041.5	926.7	839.7	762.0	712.0	676.5	665.2
1323.2	10°	1288.7	1243.9	1123.9	971.0	805.7	695.1	611.6	572.5	548.3	540.1
1381.9	12.5°	1336.6	1275.3	1102.8	885.0	681.2	574.6	521.5	502.0	494.3	491.7
1453.9	15°	1396.8	1314.4	1070.9	783.1	575.6	501.0	478.3	475.7	476.8	475.7
1540.4	17.5°	1468.4	1357.2	1018.9	678.1	504.6	463.4	455.1	457.2	459.8	459.2
1637.2	20°	1546.6	1399.4	952.5	584.9	456.2	436.6	432.0	434.0	436.1	435.1
1749.0	22.5°	1635.7	1444.7	878.9	512.3	423.7	411.9	406.7	407.2	407.2	405.2
1890.5	25°	1742.3	1494.6	801.6	460.8	399.0	389.7	383.6	381.5	378.4	372.2
2062.5	27.5°	1869.4	1547.7	727.5	424.8	379.4	370.7	363.5	358.3	350.6	340.3
2269.0	30°	2012.6	1612.0	664.7	402.1	364.0	355.2	347.0	339.3	328.0	315.1
2506.3	32.5°	2180.9	1681.0	618.9	387.2	350.1	340.8	331.1	321.8	309.4	296.6
2773.0	35°	2381.7	1764.4	592.1	376.9	339.3	326.9	316.1	305.8	296.6	285.2
3062.9	37.5°	2599.5	1853.0	583.8	371.7	332.1	313.0	300.7	293.5	292.4	285.7
3376.4	40°	2837.9	1958.0	590.0	368.6	324.4	299.6	286.3	284.7	287.3	275.4
3711.6	42.5°	3090.2	2082.6	600.3	365.0	313.5	286.3	273.4	273.4	271.3	254.9
4065.8	45°	3363.0	2226.2	610.6	356.3	300.7	272.9	263.1	259.5	250.7	234.8
4422.1	47.5°	3638.0	2372.4	618.3	340.3	285.2	261.5	252.8	244.6	231.7	217.3
4771.7	50°	3899.0	2503.7	610.1	316.6	267.7	250.7	241.5	230.1	216.2	206.5
5102.7	52.5°	4132.2	2617.5	575.1	288.8	249.2	239.4	231.2	219.3	208.0	197.7
5401.3	55°	4335.1	2709.7	513.3	262.6	232.7	229.6	221.4	206.5	191.0	182.3
5697.4	57.5°	4529.7	2779.7	436.1	241.0	217.8	218.8	206.5	193.1	178.7	169.4
6096.4	60°	4788.7	2873.4	357.8	220.9	201.8	204.9	191.5	181.7	163.7	151.9
6780.6	62.5°	5202.6	3019.1	284.2	196.2	183.3	184.3	178.7	166.8	145.2	131.3
7287.8	65°	5531.1	2965.6	224.0	169.4	162.2	163.7	163.7	150.9	127.7	111.7
7315.0	67.5°	5494.0	2539.3	178.7	143.1	142.1	143.1	146.7	135.9	113.3	100.4
6758.0	70°	5061.0	2019.8	143.1	118.9	123.6	121.0	131.3	124.1	101.9	89.1
5239.2	72.5°	4129.6	1455.0	109.1	98.3	94.7	98.9	118.4	111.7	85.0	70.5
2775.1	75°	2413.1	776.4	81.3	77.7	68.5	82.4	105.0	95.2	64.9	52.0
850.5	77.5°	785.7	270.8	59.7	57.1	51.0	66.4	89.6	80.3	53.0	41.2
249.2	80°	210.6	81.9	40.7	37.6	33.0	49.4	71.0	63.8	38.1	26.8
107.1	82.5°	84.4	34.5	23.7	21.1	18.0	34.0	56.1	51.5	28.3	17.0
33.5	85°	27.3	11.3	8.8	6.7	8.2	21.1	33.5	35.0	20.1	8.8
5.1	87.5°	3.6	1.5	1.5	2.1	1.5	3.6	10.3	9.8	5.7	1.0
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>
1184.7
1044.6
845.4
653.9
533.9
490.1
475.2
458.2
434.5
404.2
371.2
339.3
314.1
297.1
284.2
285.2
276.0
254.9
234.3
216.8
204.9
196.7
181.2
168.4
150.3
130.3
110.2
98.3
87.5
69.0
50.5
39.6
26.3
17.0
6.7
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