

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: P939684

Luminaire Tested: **GALN-SB2B-927-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939684  
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-927-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

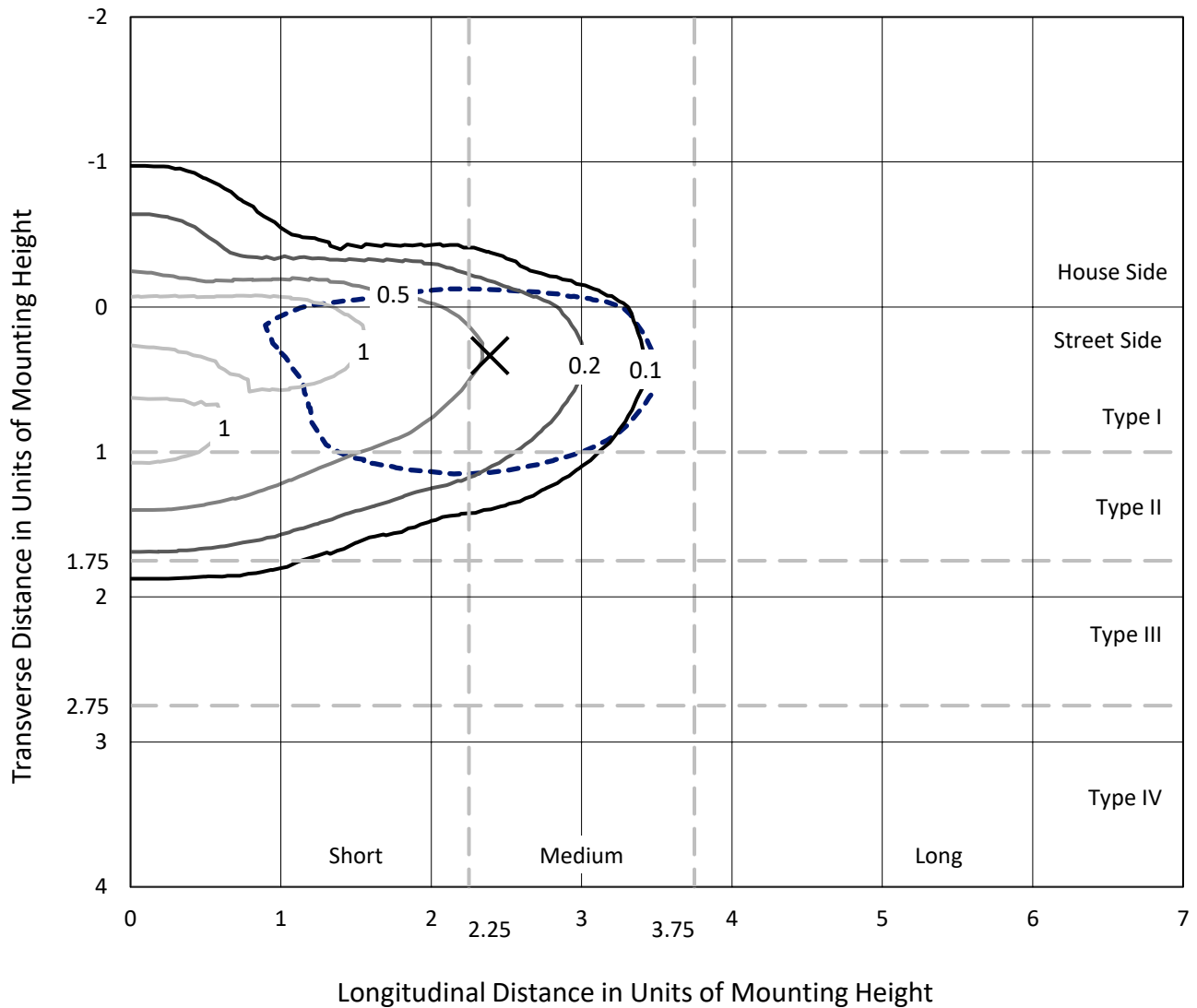
Lumens per Lamp: N/A  
Luminaire Lumens: 5005 lumens  
Efficiency: N/A  
Efficacy: 67.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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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 CATALOG NUMBER: GALN-SB2B-927-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

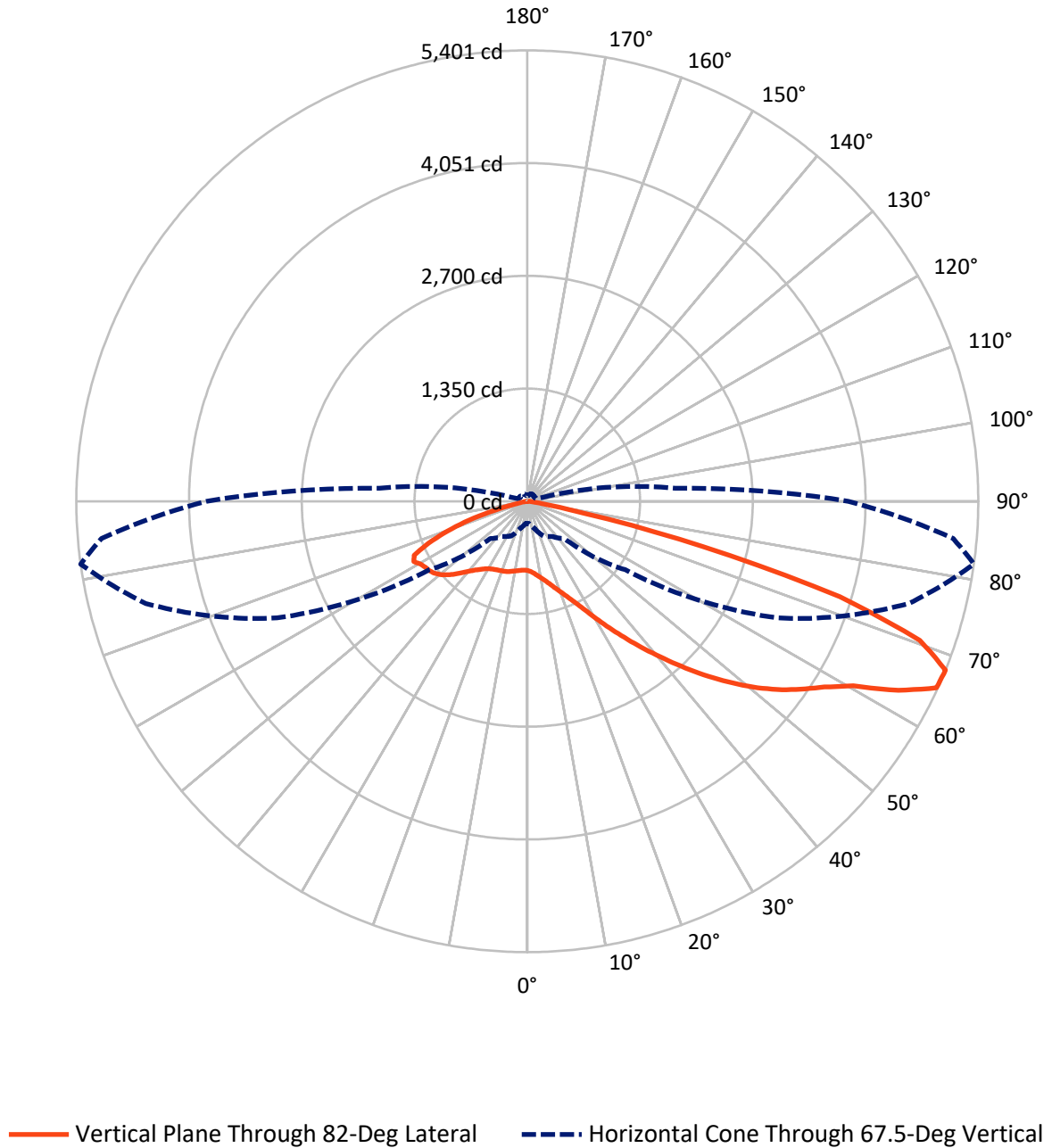
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	906.6	0.0	906.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	4098.4	0.0	4098.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	5005.0	0.0	5005.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.9	1.5
10°-20°	192.0	3.8
20°-30°	307.5	6.1
30°-40°	543.7	10.9
40°-50°	952.6	19.0
50°-60°	1270.5	25.4
60°-70°	1182.8	23.6
70°-80°	453.9	9.1
80°-90°	28.2	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°	5005.0	100.0
0°-180°	5005.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P939684

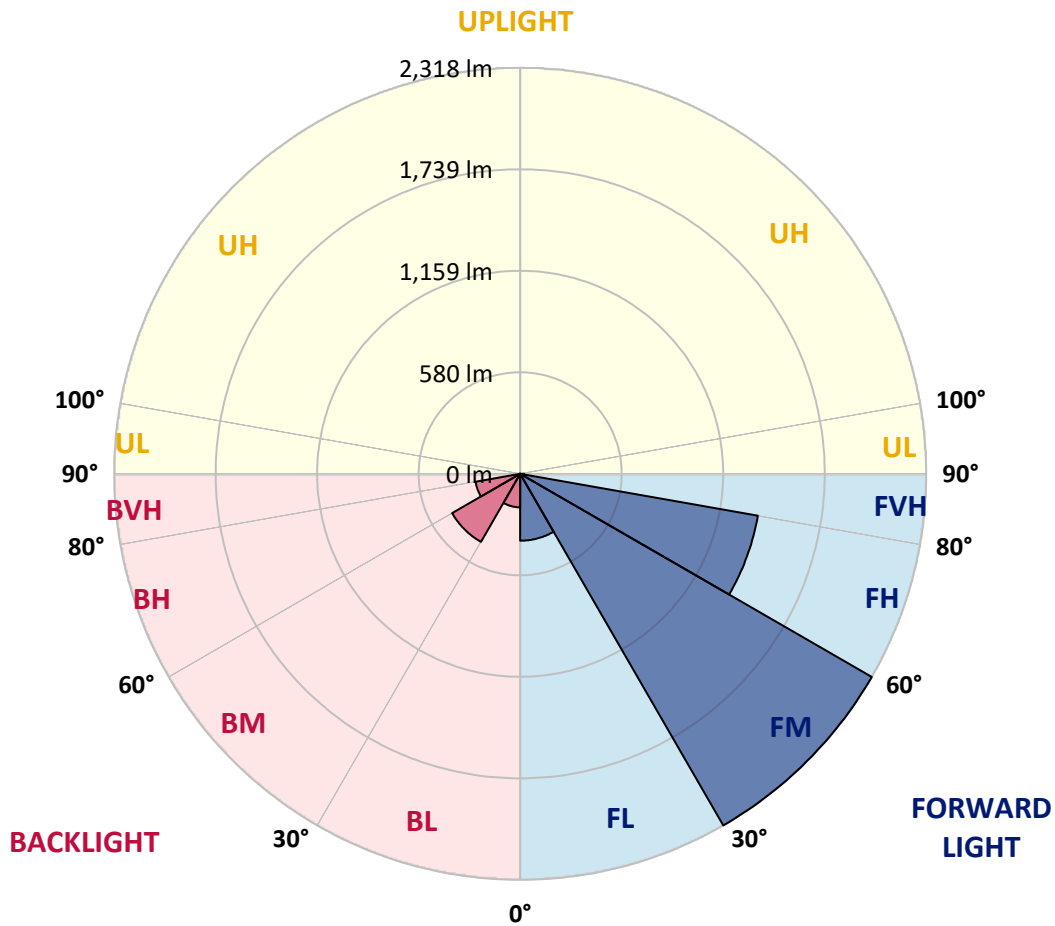
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	381.8	7.6			
FM (30°-60°)	2318.1	46.3			
FH (60°-80°)	1378.0	27.5			G1/1800
FVH (80°-90°)	20.5	0.4			G1/100
BL (0°-30°)	191.5	3.8	B1/500		
BM (30°-60°)	448.7	9.0	B1/1000		
BH (60°-80°)	258.8	5.2	B1/500		G1/500
BVH (80°-90°)	7.7	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium



REPORT NUMBER: P939684

CATALOG NUMBER: GALN-SB2B-927-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	829.2	829.2	829.2	829.2	829.2	829.2	829.2	829.2	829.2	829.2
2.5°	876.4	881.4	878.5	877.1	874.6	871.0	868.1	859.1	849.7	843.6
5°	894.0	899.1	898.7	900.1	901.9	903.0	902.3	892.2	878.9	868.4
7.5°	878.9	884.7	889.3	896.5	909.2	922.5	929.0	926.8	913.1	898.7
10°	836.0	842.1	853.3	870.2	896.9	925.7	949.9	961.0	952.4	936.5
12.5°	757.5	763.6	785.6	822.3	867.0	917.1	963.2	993.1	995.3	979.4
15°	669.2	675.3	698.7	744.8	812.9	893.3	970.4	1027.0	1046.1	1032.4
17.5°	614.4	619.8	637.5	674.6	745.6	845.7	967.9	1063.0	1106.6	1095.8
20°	597.8	602.5	610.8	636.7	695.8	796.4	951.3	1096.9	1171.8	1165.7
22.5°	615.5	619.8	622.3	633.9	671.0	763.9	930.4	1131.5	1247.5	1248.2
25°	656.2	660.5	657.6	664.8	681.1	753.8	922.5	1172.2	1342.7	1350.6
27.5°	723.2	723.6	716.7	716.4	718.9	769.0	930.8	1215.8	1462.6	1477.4
30°	857.6	852.2	825.9	797.4	784.5	814.4	953.8	1267.3	1604.3	1630.6
32.5°	1064.8	1056.9	1008.6	940.5	872.0	887.5	995.3	1326.1	1758.5	1806.1
35°	1289.7	1287.5	1237.1	1135.8	1016.2	991.7	1062.7	1403.2	1926.8	2002.4
37.5°	1498.7	1497.6	1468.8	1349.5	1203.9	1136.9	1170.8	1504.1	2107.0	2216.5
40°	1689.7	1692.9	1664.1	1557.4	1410.8	1323.2	1317.8	1628.8	2307.3	2449.6
42.5°	1854.7	1858.3	1829.1	1750.2	1615.1	1529.3	1498.3	1781.6	2503.0	2700.1
45°	1966.8	1989.1	1984.8	1921.7	1824.8	1735.8	1715.3	1973.3	2726.0	2965.7
47.5°	1998.5	2019.0	2051.5	2060.1	2001.0	1913.4	1937.9	2204.2	2951.6	3231.6
50°	1920.3	1939.4	2006.8	2096.5	2137.6	2110.6	2154.5	2451.8	3182.6	3496.8
52.5°	1766.1	1785.5	1870.6	2012.5	2180.1	2265.1	2371.8	2695.8	3406.4	3748.0
55°	1543.0	1563.5	1672.7	1833.4	2099.0	2328.9	2553.1	2939.4	3611.4	3973.9
57.5°	1239.6	1254.7	1368.2	1593.1	1895.1	2265.5	2686.7	3205.3	3804.5	4195.9
60°	807.9	821.2	953.1	1203.9	1557.1	2053.6	2713.4	3501.9	4061.1	4484.5
62.5°	537.3	546.3	624.5	808.6	1096.5	1646.8	2557.4	3738.6	4437.3	4986.8
65°	368.6	377.6	455.8	584.1	708.4	1089.3	2108.8	3707.3	4778.2	5385.8
67.5°	263.1	270.6	336.9	458.0	512.8	632.8	1429.5	3306.5	4729.2	5400.9
70°	188.5	192.8	247.6	356.7	407.6	380.2	794.9	2528.9	4140.8	4987.2
72.5°	131.9	133.3	171.9	271.7	328.3	277.5	378.4	1686.1	3131.8	3914.5
75°	89.4	91.2	115.7	199.3	263.4	211.9	200.4	904.1	1838.5	2166.8
77.5°	54.8	55.5	74.6	136.2	197.1	161.4	129.0	383.0	711.3	698.4
80°	31.0	31.0	47.6	84.7	134.4	104.1	90.4	162.9	225.2	197.8
82.5°	17.3	17.7	34.6	52.6	89.0	61.6	49.7	75.3	97.3	86.1
85°	7.2	7.9	21.3	24.9	42.5	30.6	20.2	31.7	36.0	32.1
87.5°	0.7	1.1	6.5	4.7	5.0	6.1	2.9	6.1	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939684  
 CATALOG NUMBER: GALN-SB2B-927-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
829.2	0°	829.2	829.2	829.2	829.2	829.2	829.2	829.2	829.2	829.2	829.2
841.4	2.5°	834.6	829.2	815.5	799.6	778.7	768.6	754.9	745.6	737.6	738.4
862.3	5°	850.8	837.1	806.5	768.3	720.7	686.8	650.8	625.9	605.7	601.4
891.1	7.5°	873.1	851.5	797.8	729.0	648.6	587.7	533.3	498.4	473.5	465.6
926.1	10°	901.9	870.6	786.6	679.6	563.9	486.5	428.1	400.7	383.8	378.0
967.2	12.5°	935.5	892.6	771.9	619.4	476.7	402.1	365.0	351.3	345.9	344.1
1017.6	15°	977.6	920.0	749.5	548.1	402.9	350.6	334.8	333.0	333.7	333.0
1078.2	17.5°	1027.7	949.9	713.1	474.6	353.1	324.3	318.5	320.0	321.8	321.4
1145.9	20°	1082.5	979.4	666.6	409.4	319.3	305.6	302.3	303.8	305.2	304.5
1224.1	22.5°	1144.8	1011.1	615.1	358.5	296.6	288.3	284.7	285.0	285.0	283.6
1323.2	25°	1219.4	1046.1	561.1	322.5	279.3	272.8	268.5	267.0	264.9	260.5
1443.6	27.5°	1308.4	1083.2	509.2	297.3	265.6	259.5	254.4	250.8	245.4	238.2
1588.1	30°	1408.6	1128.2	465.2	281.4	254.8	248.6	242.9	237.5	229.5	220.5
1754.2	32.5°	1526.4	1176.5	433.1	271.0	245.0	238.5	231.7	225.2	216.6	207.6
1940.8	35°	1667.0	1234.9	414.4	263.8	237.5	228.8	221.3	214.0	207.6	199.6
2143.7	37.5°	1819.4	1296.9	408.6	260.2	232.4	219.1	210.4	205.4	204.7	200.0
2363.2	40°	1986.2	1370.4	413.0	258.0	227.0	209.7	200.4	199.3	201.1	192.8
2597.7	42.5°	2162.8	1457.6	420.2	255.5	219.5	200.4	191.3	191.3	189.9	178.4
2845.7	45°	2353.8	1558.1	427.4	249.4	210.4	191.0	184.1	181.6	175.5	164.3
3095.0	47.5°	2546.2	1660.5	432.8	238.2	199.6	183.1	176.9	171.2	162.2	152.1
3339.7	50°	2728.9	1752.4	427.0	221.6	187.4	175.5	169.0	161.1	151.3	144.5
3571.4	52.5°	2892.1	1832.0	402.5	202.2	174.4	167.6	161.8	153.5	145.6	138.4
3780.4	55°	3034.1	1896.5	359.3	183.8	162.9	160.7	154.9	144.5	133.7	127.6
3987.6	57.5°	3170.3	1945.5	305.2	168.6	152.4	153.1	144.5	135.1	125.0	118.6
4266.9	60°	3351.6	2011.1	250.4	154.6	141.3	143.4	134.0	127.2	114.6	106.3
4745.8	62.5°	3641.3	2113.1	198.9	137.3	128.3	129.0	125.0	116.8	101.6	91.9
5100.7	65°	3871.2	2075.6	156.8	118.6	113.5	114.6	114.6	105.6	89.4	78.2
5119.8	67.5°	3845.3	1777.2	125.0	100.2	99.5	100.2	102.7	95.1	79.3	70.3
4729.9	70°	3542.2	1413.6	100.2	83.2	86.5	84.7	91.9	86.8	71.3	62.3
3666.9	72.5°	2890.3	1018.3	76.4	68.8	66.3	69.2	82.9	78.2	59.5	49.4
1942.3	75°	1688.9	543.4	56.9	54.4	47.9	57.7	73.5	66.7	45.4	36.4
595.3	77.5°	549.9	189.5	41.8	40.0	35.7	46.5	62.7	56.2	37.1	28.8
174.4	80°	147.4	57.3	28.5	26.3	23.1	34.6	49.7	44.7	26.7	18.7
75.0	82.5°	59.1	24.1	16.6	14.8	12.6	23.8	39.3	36.0	19.8	11.9
23.4	85°	19.1	7.9	6.1	4.7	5.8	14.8	23.4	24.5	14.1	6.1
3.6	87.5°	2.5	1.1	1.1	1.4	1.1	2.5	7.2	6.8	4.0	0.7
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>
829.2
731.1
591.7
457.6
373.7
343.1
332.6
320.7
304.1
282.9
259.8
237.5
219.8
207.9
198.9
199.6
193.1
178.4
164.0
151.7
143.4
137.7
126.8
117.8
105.2
91.2
77.1
68.8
61.3
48.3
35.3
27.7
18.4
11.9
4.7
0.0
0.0

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