

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: P946524

Luminaire Tested: **GALN-SB2A-927-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946524  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-927-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

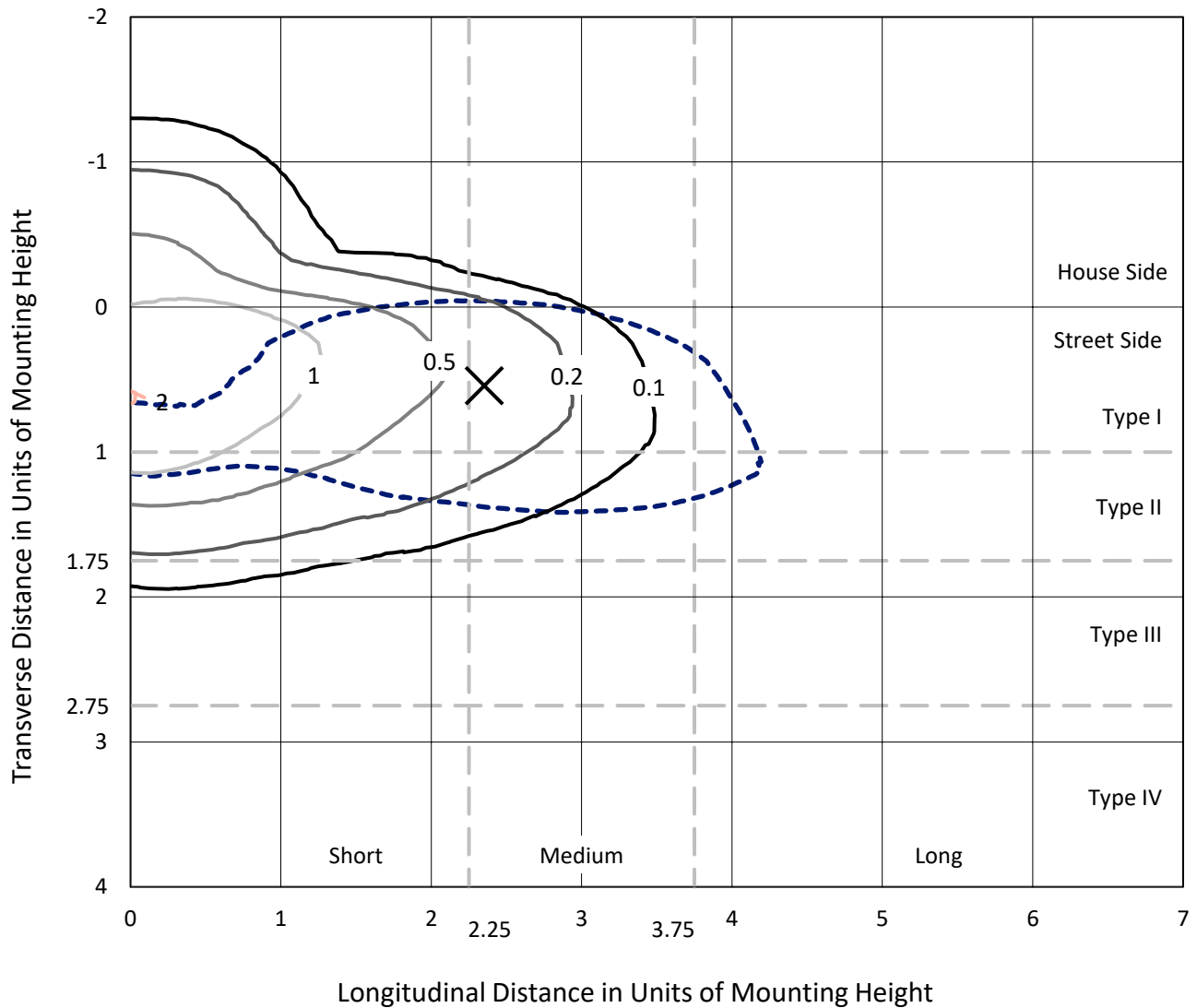
Lumens per Lamp: N/A  
Luminaire Lumens: 5562 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

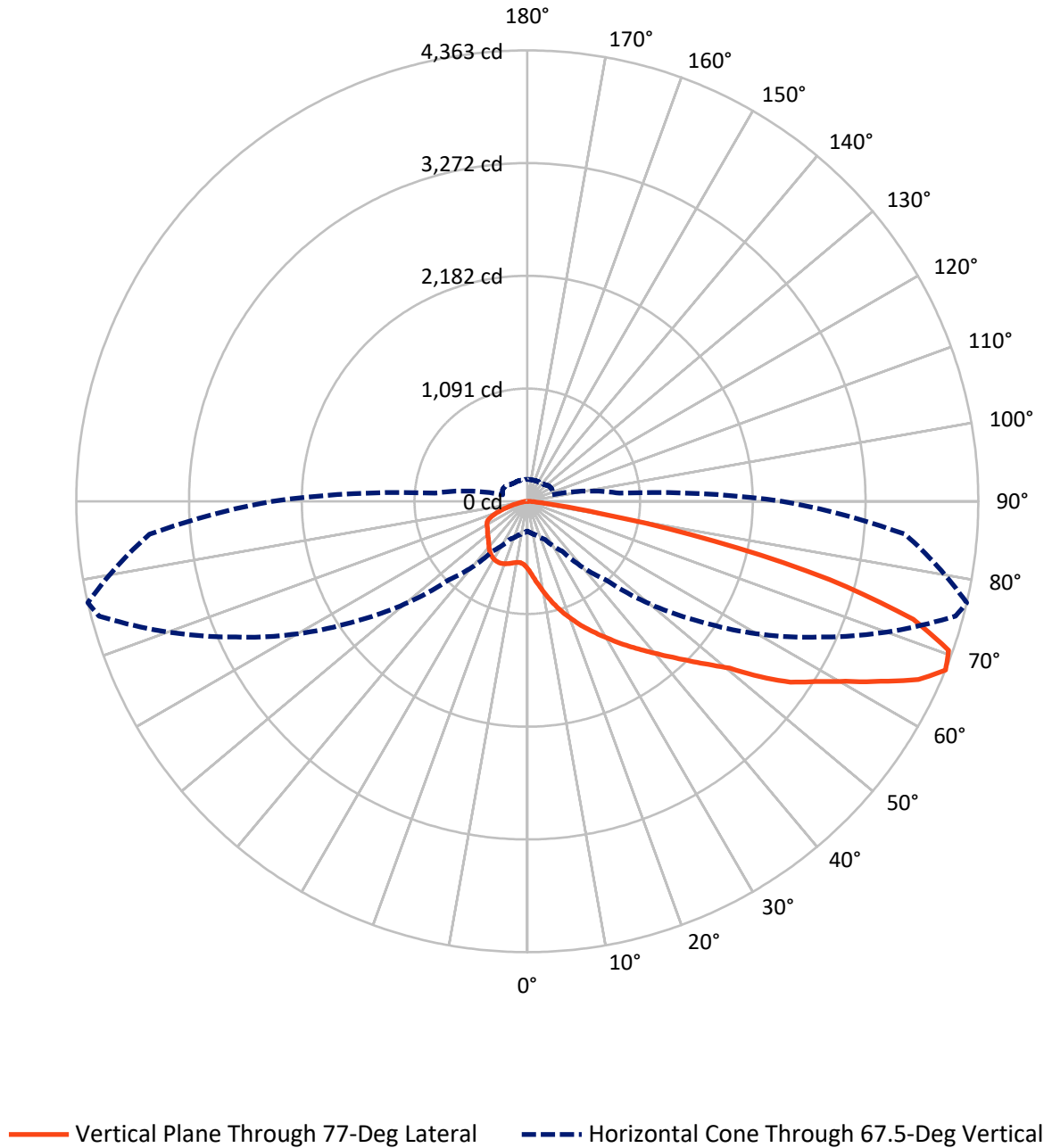
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	1052.1	0.0	1052.1
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	4509.9	0.0	4509.9
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	5562.0	0.0	5562.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.9	1.3
10°-20°	251.3	4.5
20°-30°	474.5	8.5
30°-40°	764.4	13.7
40°-50°	1045.5	18.8
50°-60°	1179.4	21.2
60°-70°	1100.8	19.8
70°-80°	603.4	10.8
80°-90°	72.8	1.3
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°	5562.0	100.0
0°-180°	5562.0	100.0

**Coefficient of Utilization**



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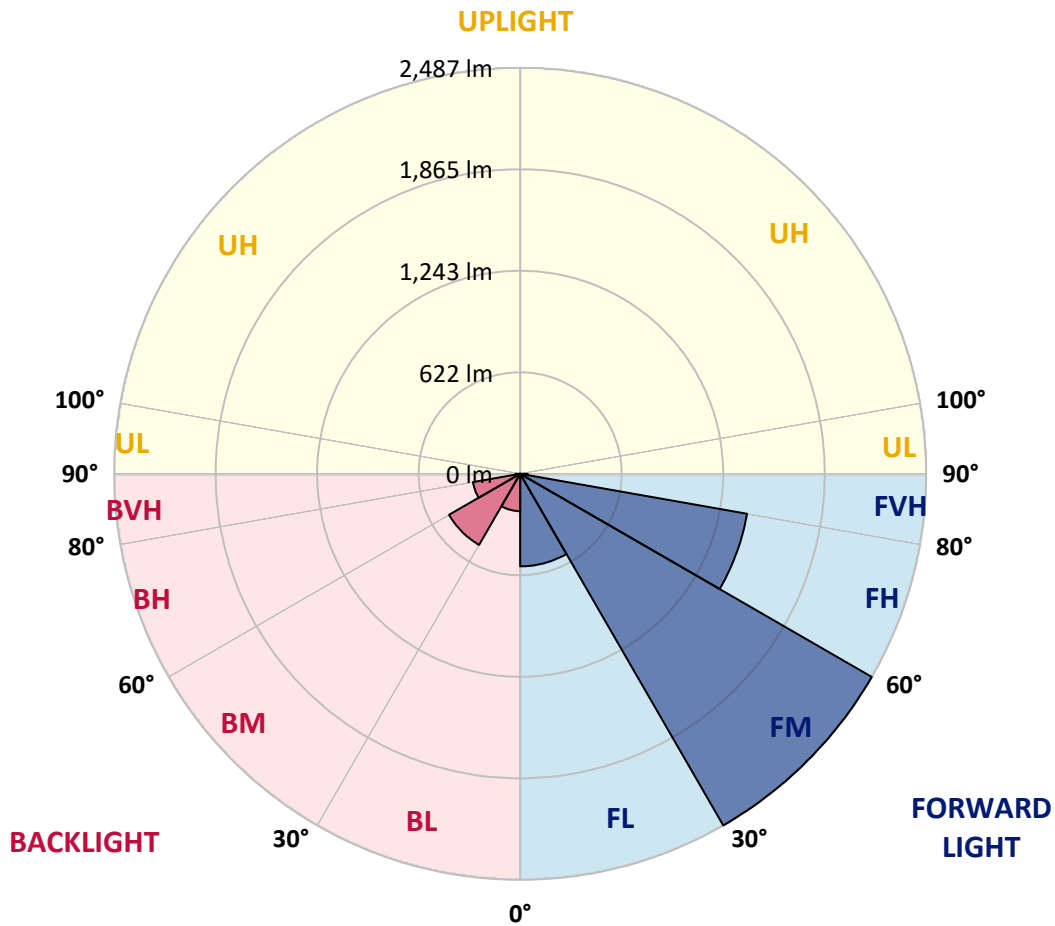
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	567.0	10.2			
FM (30°-60°)	2486.7	44.7			
FH (60°-80°)	1410.7	25.4			G1/1800
FVH (80°-90°)	45.5	0.8			G1/100
BL (0°-30°)	228.8	4.1	B1/500		
BM (30°-60°)	502.6	9.0	B1/1000		
BH (60°-80°)	293.5	5.3	B1/500		G1/500
BVH (80°-90°)	27.3	0.5			G1/100
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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	652.6	652.6	652.6	652.6	652.6	652.6	652.6	652.6	652.6	652.6
2.5°	817.1	822.9	815.7	815.7	791.6	778.9	754.8	736.4	703.4	697.7
5°	965.8	973.0	963.0	958.7	930.2	904.1	863.6	823.7	764.9	758.8
7.5°	1081.0	1090.1	1081.2	1076.7	1051.4	1022.1	974.7	919.0	836.1	824.3
10°	1174.8	1176.3	1173.4	1175.1	1155.3	1131.2	1082.7	1017.8	914.2	898.1
12.5°	1228.0	1234.6	1240.3	1250.6	1247.2	1232.3	1188.6	1111.1	996.8	976.2
15°	1252.9	1264.4	1277.3	1301.2	1320.4	1324.1	1290.8	1211.3	1081.0	1056.0
17.5°	1261.8	1272.7	1293.1	1327.6	1368.9	1396.8	1381.8	1308.6	1164.2	1135.5
20°	1306.9	1310.1	1322.4	1355.1	1399.9	1446.2	1457.4	1402.2	1246.6	1214.2
22.5°	1403.4	1397.1	1400.5	1415.4	1447.6	1492.4	1517.9	1484.9	1331.3	1294.0
25°	1562.7	1544.4	1526.0	1508.8	1525.1	1550.4	1579.4	1567.6	1420.0	1372.7
27.5°	1764.0	1741.6	1701.1	1644.6	1624.7	1633.6	1646.6	1644.3	1502.1	1454.2
30°	1962.1	1936.0	1887.7	1805.9	1753.7	1730.1	1720.3	1713.7	1591.4	1540.3
32.5°	2120.3	2099.6	2052.2	1960.7	1884.9	1844.7	1812.2	1788.7	1684.7	1633.6
35°	2258.7	2239.4	2185.2	2085.3	2002.9	1960.1	1917.6	1867.3	1781.8	1730.1
37.5°	2385.0	2365.8	2291.4	2187.5	2104.5	2074.9	2037.0	1951.8	1879.1	1830.3
40°	2464.8	2460.5	2391.0	2273.3	2187.2	2172.5	2159.9	2049.7	1987.1	1941.7
42.5°	2485.2	2494.7	2439.6	2342.8	2260.7	2248.9	2278.5	2160.5	2108.2	2064.9
45°	2436.1	2463.4	2427.2	2361.5	2312.9	2306.6	2383.6	2281.6	2242.3	2202.7
47.5°	2311.8	2358.0	2343.1	2333.9	2327.0	2354.3	2476.0	2410.3	2394.2	2359.7
50°	2060.9	2148.4	2174.6	2232.5	2299.2	2391.3	2560.1	2550.7	2571.6	2536.9
52.5°	1627.0	1747.6	1899.2	2044.5	2213.6	2379.0	2652.6	2752.2	2840.6	2821.7
55°	1343.1	1397.4	1513.9	1780.4	2047.7	2327.0	2694.2	2915.0	3107.7	3090.7
57.5°	1124.9	1173.4	1245.2	1467.7	1796.7	2209.0	2720.1	3014.3	3290.5	3288.8
60°	890.9	942.3	1015.8	1173.4	1503.6	2005.2	2714.3	3127.5	3524.0	3538.3
62.5°	626.8	683.3	764.9	911.9	1204.1	1741.0	2597.2	3209.3	3798.7	3837.8
65°	412.0	449.3	510.8	637.7	897.2	1401.4	2373.5	3219.9	4092.7	4158.8
67.5°	288.8	303.2	339.4	408.3	591.4	1074.6	2017.2	3109.9	4288.8	4363.2
70°	225.4	232.6	250.9	278.5	371.5	722.6	1545.8	2824.0	4246.9	4324.4
72.5°	194.7	201.5	208.4	211.9	249.2	446.2	1047.1	2361.2	3852.1	3904.7
75°	176.6	178.3	184.0	182.9	190.1	289.4	604.4	1720.3	3039.3	3021.2
77.5°	148.4	150.7	160.2	158.8	168.8	197.8	313.8	1110.2	1970.4	1847.5
80°	125.8	126.9	137.2	135.5	146.7	143.3	160.2	565.9	835.8	708.0
82.5°	43.6	54.0	104.8	108.0	112.0	86.7	92.4	230.8	255.2	195.5
85°	21.2	22.7	53.4	75.8	75.5	43.6	45.1	82.4	80.4	63.2
87.5°	3.4	4.3	6.3	29.6	23.5	11.5	15.5	16.1	16.7	14.4
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°
652.6	0°	652.6	652.6	652.6	652.6	652.6	652.6	652.6	652.6	652.6	652.6
675.9	2.5°	659.8	645.4	615.3	587.4	565.6	544.6	532.9	522.8	517.1	515.9
707.4	5°	677.6	648.0	593.2	546.9	516.8	494.4	482.6	475.2	471.4	469.1
749.9	7.5°	703.1	659.8	581.7	529.1	497.6	481.5	475.5	474.3	474.0	474.3
801.3	10°	738.4	679.0	580.5	524.8	498.4	489.5	489.2	489.5	490.7	491.0
857.3	12.5°	776.6	698.8	585.1	528.6	509.3	504.4	503.6	503.3	504.2	504.7
913.9	15°	818.3	724.9	592.9	536.6	521.4	516.2	515.4	513.6	513.3	513.1
973.3	17.5°	861.0	750.8	601.5	545.2	529.1	522.0	518.8	514.8	511.6	510.8
1034.7	20°	904.4	776.3	607.5	549.5	529.7	519.7	513.3	506.5	501.0	497.8
1096.8	22.5°	950.6	803.0	611.3	548.4	524.5	510.8	499.3	491.2	482.9	477.5
1159.3	25°	995.7	826.3	611.0	542.3	514.5	497.0	482.3	472.0	460.5	454.8
1223.9	27.5°	1039.0	847.3	603.8	531.7	500.1	480.6	463.1	450.8	439.6	434.1
1289.1	30°	1083.8	864.8	592.6	516.2	483.2	461.7	442.4	431.8	421.8	416.6
1358.0	32.5°	1128.3	880.8	576.8	497.0	463.7	443.0	424.1	414.3	408.3	408.3
1432.1	35°	1175.4	892.0	555.8	474.6	443.0	423.2	408.3	402.5	402.0	398.5
1510.5	37.5°	1225.1	899.2	530.3	451.6	422.6	404.0	399.4	392.5	386.7	379.3
1596.6	40°	1277.3	906.4	499.6	427.8	401.1	390.8	388.7	379.6	363.2	344.8
1694.2	42.5°	1340.8	911.3	467.7	404.0	378.4	375.0	377.8	362.0	335.9	322.1
1811.9	45°	1414.3	919.3	438.4	380.4	355.2	355.2	367.2	346.5	325.0	316.4
1946.3	47.5°	1509.6	938.0	411.1	354.6	333.6	339.4	343.7	327.9	315.8	305.2
2110.0	50°	1647.4	982.8	383.0	328.5	317.3	328.7	322.7	313.5	299.5	290.8
2370.1	52.5°	1818.5	1009.2	358.0	304.9	303.2	314.7	306.1	297.4	286.8	275.3
2567.3	55°	1935.1	1014.1	337.1	287.7	293.7	292.6	289.4	281.7	275.9	260.7
2762.0	57.5°	2065.5	1023.8	319.8	277.3	287.7	275.0	273.9	267.3	259.8	249.5
2999.4	60°	2221.4	1039.0	304.9	273.3	282.5	263.6	257.8	255.2	247.8	242.6
3285.1	62.5°	2391.3	1052.8	289.7	273.9	276.5	252.4	243.8	242.9	238.3	236.6
3553.2	65°	2507.3	1015.2	270.7	273.3	267.0	240.9	230.0	229.7	226.0	225.4
3669.5	67.5°	2466.8	896.1	245.2	265.3	257.2	229.4	217.3	216.2	211.3	211.6
3548.1	70°	2264.1	726.1	209.9	245.5	245.2	219.1	204.1	200.4	193.8	194.9
3085.0	72.5°	1884.0	538.0	162.5	212.5	226.0	209.6	188.9	182.9	174.6	175.7
2277.3	75°	1360.6	365.8	118.3	161.6	196.7	198.4	174.0	163.7	153.6	155.3
1267.6	77.5°	696.2	207.3	87.0	111.4	154.5	180.3	160.5	146.7	144.4	160.5
365.5	80°	227.1	103.9	60.3	78.1	101.3	147.6	140.7	124.9	124.3	128.0
76.7	82.5°	67.8	43.9	38.8	51.4	56.0	113.1	121.4	94.5	81.3	85.6
25.6	85°	23.3	21.2	22.1	25.6	26.7	66.3	85.0	62.6	59.1	65.2
5.7	87.5°	5.5	7.5	6.3	5.7	5.7	16.1	33.0	26.1	36.2	24.1
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>
652.6
515.9
468.8
475.2
491.2
505.0
512.8
511.6
499.0
477.7
454.8
433.8
416.3
408.6
397.6
378.1
342.2
322.4
317.8
304.9
290.0
273.0
261.0
246.1
244.0
236.6
225.1
211.6
196.1
175.4
155.9
158.2
110.0
88.4
64.3
23.3
0.0

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