

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: P941555

Luminaire Tested: **GALN-SB5A-927-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941555  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB5A-927-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13666 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

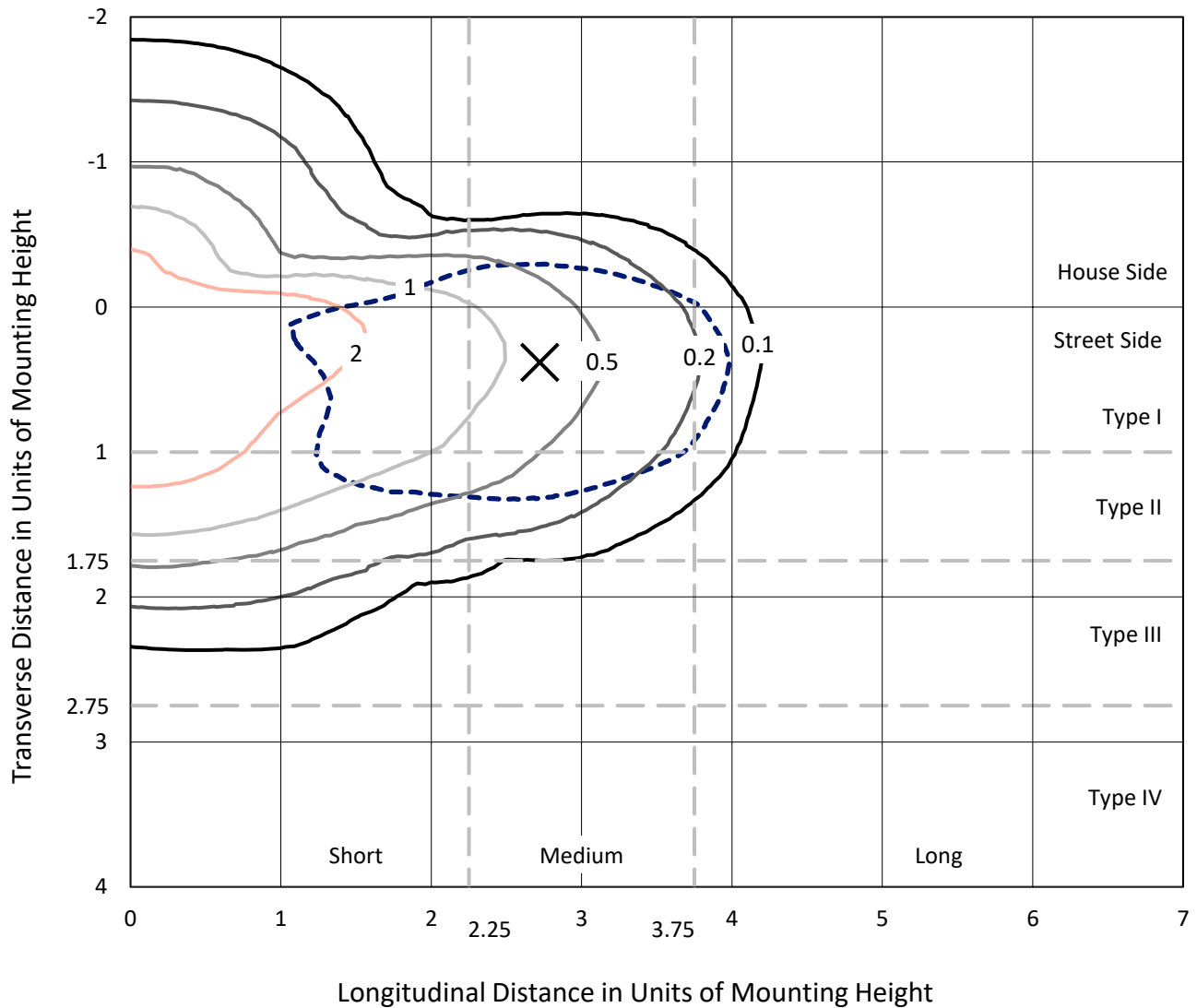
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

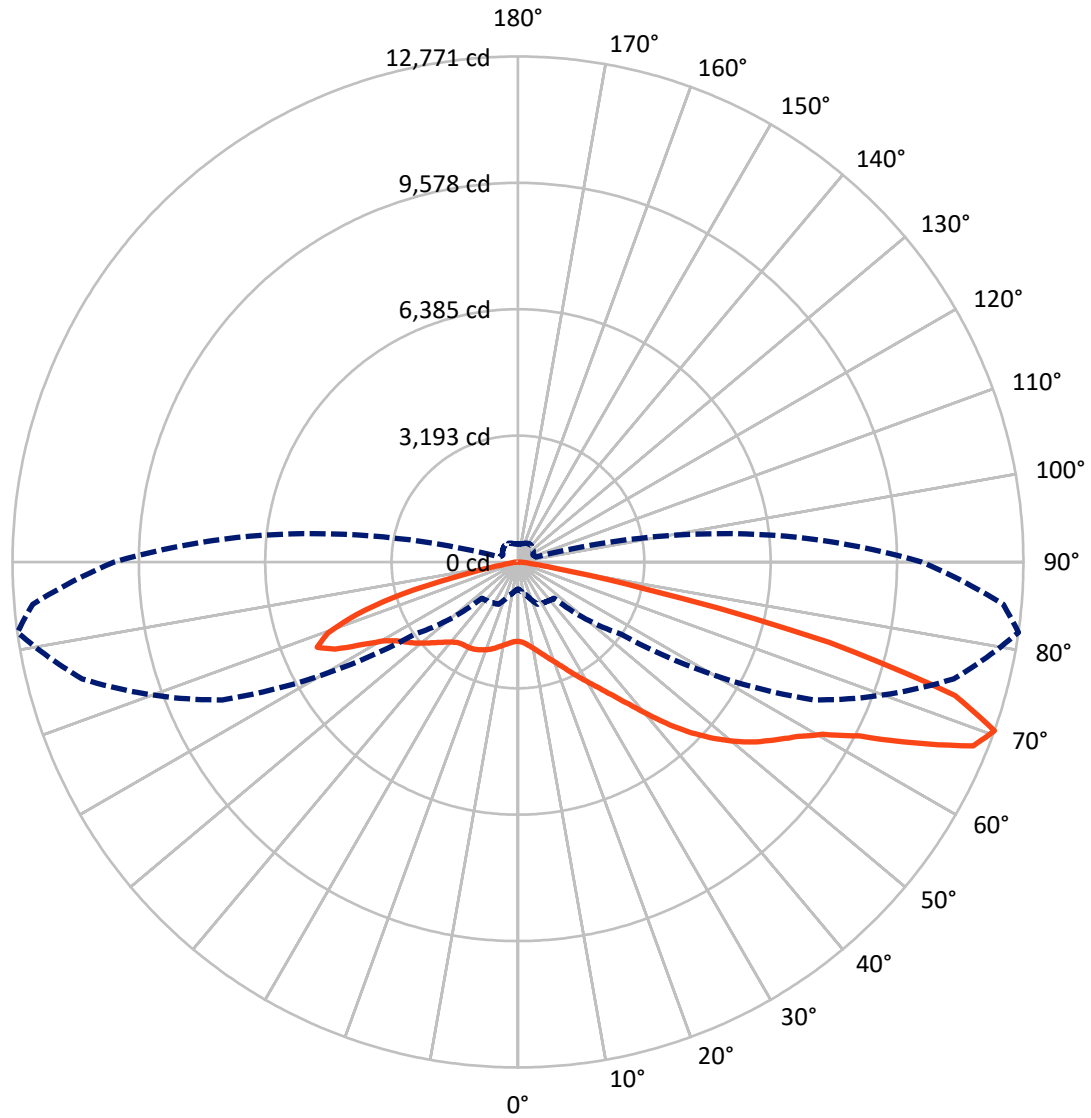
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3369.0	0.0	3369.0
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	10297.0	0.0	10297.0
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	13666.0	0.0	13666.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.2	1.4
10°-20°	543.5	4.0
20°-30°	909.2	6.7
30°-40°	1420.5	10.4
40°-50°	2262.3	16.6
50°-60°	3148.2	23.0
60°-70°	3293.2	24.1
70°-80°	1721.2	12.6
80°-90°	178.7	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°	13666.0	100.0
0°-180°	13666.0	100.0

**Coefficient of Utilization**



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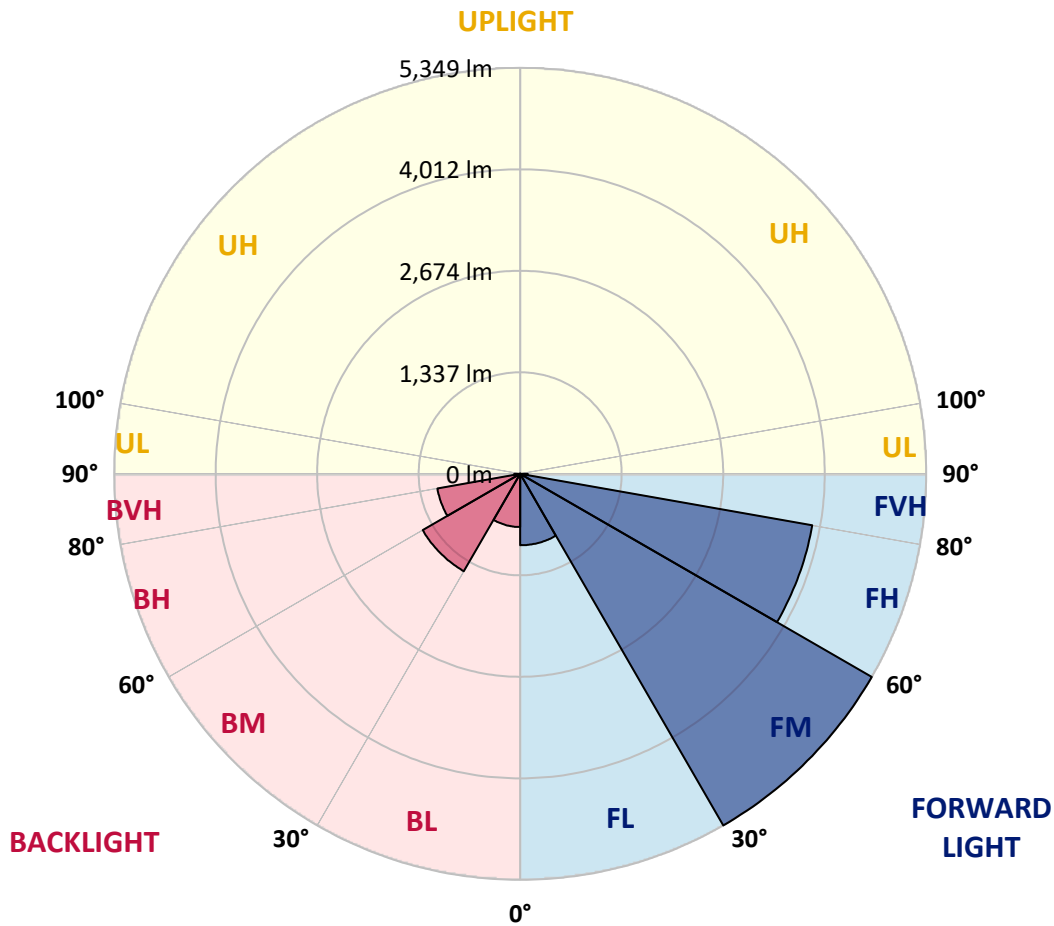
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	941.1	6.9			
FM (30°-60°)	5348.7	39.1			
FH (60°-80°)	3907.2	28.6			G2/5000
FVH (80°-90°)	100.1	0.7			G2/225
BL (0°-30°)	700.9	5.1	B2/1000		
BM (30°-60°)	1482.2	10.8	B2/2500		
BH (60°-80°)	1107.2	8.1	B3/2500		G3/2500
BVH (80°-90°)	78.7	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2003.6	2003.6	2003.6	2003.6	2003.6	2003.6	2003.6	2003.6	2003.6	2003.6
2.5°	2051.5	2063.1	2059.4	2055.8	2055.8	2050.7	2050.0	2042.8	2037.0	2027.5
5°	2077.6	2089.9	2088.4	2091.4	2100.8	2103.0	2105.1	2100.8	2089.2	2077.6
7.5°	2054.4	2068.1	2072.5	2089.9	2118.9	2145.0	2164.6	2172.6	2161.7	2145.0
10°	1976.1	1991.3	2006.5	2047.8	2099.3	2161.0	2213.2	2244.4	2242.2	2226.2
12.5°	1817.2	1833.2	1865.8	1946.3	2040.6	2149.4	2246.5	2311.8	2334.3	2322.7
15°	1690.3	1704.1	1728.8	1811.4	1934.0	2099.3	2258.9	2385.8	2443.1	2436.5
17.5°	1686.7	1692.5	1707.7	1746.9	1841.2	2021.0	2245.8	2458.3	2567.8	2567.1
20°	1750.5	1752.7	1761.4	1769.4	1823.0	1961.5	2212.5	2518.5	2707.7	2707.7
22.5°	1839.0	1837.5	1846.2	1839.0	1865.1	1956.5	2191.4	2571.4	2863.6	2875.2
25°	1971.7	1964.4	1962.3	1945.6	1950.7	2003.6	2214.6	2631.6	3048.6	3072.5
27.5°	2148.6	2137.0	2129.1	2090.6	2077.6	2100.8	2285.7	2704.1	3254.5	3295.8
30°	2379.2	2358.2	2346.6	2279.9	2232.8	2236.4	2393.0	2800.6	3469.9	3536.6
32.5°	2694.0	2661.3	2630.1	2520.6	2434.3	2406.1	2531.5	2934.0	3703.4	3810.0
35°	3046.4	3020.3	2986.9	2818.0	2685.3	2620.0	2718.6	3120.3	3976.8	4145.7
37.5°	3385.8	3363.3	3379.2	3151.5	2980.4	2885.4	2963.7	3370.5	4314.0	4563.4
40°	3736.7	3719.3	3721.5	3504.0	3304.5	3197.9	3261.0	3684.5	4700.5	5060.1
42.5°	4118.2	4105.1	4061.6	3868.7	3644.6	3545.3	3603.3	4047.1	5115.3	5625.8
45°	4545.3	4537.3	4496.7	4275.5	4018.8	3907.1	3985.5	4447.4	5532.2	6158.0
47.5°	4914.4	4920.9	4915.8	4729.5	4463.3	4299.5	4393.0	4865.1	5920.2	6658.4
50°	5092.0	5126.1	5176.2	5118.2	4952.8	4786.0	4804.2	5268.3	6290.0	7127.6
52.5°	4999.2	5063.8	5200.1	5292.9	5356.7	5321.9	5273.3	5668.5	6638.1	7551.1
55°	4653.3	4744.0	4970.2	5194.3	5519.9	5773.0	5836.8	6112.3	6977.5	7923.8
57.5°	4023.2	4170.4	4373.4	4826.6	5374.9	5991.2	6493.8	6728.0	7337.1	8321.9
60°	2942.7	3139.9	3392.3	4066.7	4867.2	5874.5	7052.9	7673.6	7848.4	8837.5
62.5°	1883.2	2005.1	2237.1	2872.3	3792.6	5276.2	7224.0	8855.6	8714.9	9683.0
65°	1289.3	1367.6	1580.1	1936.9	2451.8	3927.4	6765.7	9741.7	10091.3	11023.1
67.5°	936.9	996.4	1177.7	1490.2	1597.5	2324.1	5250.1	9701.1	11429.2	12403.8
70°	683.1	725.2	877.4	1177.7	1229.1	1293.0	3180.5	8246.5	11400.2	12770.7
72.5°	506.2	535.2	637.4	913.7	994.9	873.1	1574.3	5993.4	9796.1	11551.0
75°	366.2	388.0	463.4	699.1	796.2	665.0	785.3	3502.5	6833.1	8125.4
77.5°	279.9	296.6	345.9	512.0	637.4	498.9	487.3	1611.3	3240.0	3256.0
80°	224.8	235.7	262.5	360.4	488.8	373.5	317.6	650.5	1023.9	866.6
82.5°	165.3	183.5	221.9	253.1	349.5	257.4	193.6	328.5	389.4	335.0
85°	94.3	106.6	134.2	181.3	223.3	157.4	110.9	145.8	181.3	148.7
87.5°	33.4	43.5	47.1	71.1	97.2	65.3	42.8	42.1	59.5	44.2
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°
2003.6	0°	2003.6	2003.6	2003.6	2003.6	2003.6	2003.6	2003.6	2003.6	2003.6	2003.6
2025.4	2.5°	2018.1	2014.5	2000.0	1980.4	1960.1	1940.5	1934.0	1920.2	1910.8	1905.7
2072.5	5°	2058.7	2047.1	2013.0	1969.5	1923.8	1874.5	1839.7	1807.8	1784.6	1762.9
2137.0	7.5°	2116.7	2096.4	2037.7	1961.5	1880.3	1798.4	1737.5	1691.1	1659.9	1639.6
2212.5	10°	2184.2	2153.0	2063.1	1949.2	1823.8	1706.3	1634.5	1594.6	1575.0	1564.2
2298.7	12.5°	2261.8	2217.5	2089.2	1920.9	1737.5	1603.3	1554.0	1542.4	1543.1	1543.9
2407.5	15°	2357.5	2295.8	2110.2	1859.3	1625.1	1524.3	1515.6	1534.4	1554.0	1563.4
2530.8	17.5°	2465.5	2378.5	2113.8	1757.8	1514.9	1473.5	1501.1	1541.7	1571.4	1584.5
2668.6	20°	2581.6	2462.6	2087.7	1614.2	1424.2	1432.2	1481.5	1533.7	1566.3	1583.0
2825.9	22.5°	2714.3	2552.5	2025.4	1463.4	1350.2	1387.2	1445.2	1496.0	1530.1	1546.8
3010.8	25°	2865.8	2653.3	1927.5	1336.5	1286.4	1336.5	1394.5	1436.5	1464.1	1479.3
3217.5	27.5°	3034.1	2758.5	1796.9	1235.7	1230.6	1284.3	1332.1	1364.7	1379.2	1390.8
3437.2	30°	3203.0	2854.2	1638.9	1159.5	1182.0	1232.8	1266.8	1281.4	1285.7	1287.9
3682.3	32.5°	3385.8	2936.9	1472.8	1096.4	1135.6	1182.7	1203.0	1209.6	1189.3	1175.5
3979.7	35°	3606.9	3025.4	1310.4	1046.4	1089.9	1130.5	1137.0	1131.2	1107.3	1079.0
4352.4	37.5°	3880.3	3135.6	1180.6	1010.9	1047.1	1074.0	1066.0	1064.5	1066.7	1033.3
4800.5	40°	4215.3	3279.2	1085.6	983.3	1012.3	1018.1	995.6	1008.0	1018.8	968.1
5292.2	42.5°	4587.3	3452.5	1025.4	964.5	983.3	969.5	934.7	948.5	947.1	880.3
5786.0	45°	4966.6	3641.0	1004.3	950.7	956.5	928.9	890.5	894.1	863.7	803.5
6259.5	47.5°	5343.7	3843.3	1017.4	939.1	923.1	891.9	862.2	846.3	801.3	756.3
6713.5	50°	5713.5	4055.8	1065.3	915.9	877.4	859.3	837.6	809.3	761.4	723.0
7142.8	52.5°	6056.5	4269.7	1118.9	877.4	820.2	831.0	817.3	784.6	737.5	698.3
7548.9	55°	6381.4	4483.6	1139.9	824.5	766.5	806.4	798.4	738.2	681.6	649.7
7973.8	57.5°	6735.3	4741.1	1116.7	757.1	723.0	778.1	747.6	680.9	648.3	624.4
8527.1	60°	7225.5	5145.0	1066.7	673.7	681.6	736.0	683.8	656.3	620.7	593.9
9356.7	62.5°	8039.8	5898.4	986.2	591.0	633.1	673.7	653.4	625.8	589.6	563.4
10775.1	65°	9243.6	6945.5	834.7	526.5	578.7	612.8	620.7	593.2	555.5	527.9
12018.0	67.5°	10258.8	7602.5	631.6	472.8	522.8	563.4	585.9	559.1	519.2	492.4
12308.8	70°	10202.9	7125.4	482.2	419.9	473.5	514.9	543.9	522.8	480.1	454.7
11180.5	72.5°	9062.3	5960.8	390.1	366.2	423.5	464.1	498.9	483.0	439.4	414.8
8190.6	75°	6657.7	4231.3	311.8	311.8	361.1	411.2	449.6	439.4	399.6	382.2
3438.7	77.5°	2806.4	1775.2	244.4	258.9	300.2	353.2	401.0	404.6	369.8	391.6
909.3	80°	746.2	489.5	186.4	203.8	235.7	291.5	348.8	347.3	309.6	289.3
337.9	82.5°	284.3	192.9	132.7	143.6	170.4	223.3	276.3	285.0	247.3	213.9
132.7	85°	109.5	82.7	81.9	86.3	99.3	147.9	208.8	216.1	186.4	158.1
37.0	87.5°	28.3	24.7	30.5	29.0	45.7	79.0	119.7	124.0	113.8	66.0
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>
2003.6
1911.5
1771.6
1643.9
1567.1
1545.3
1562.7
1587.4
1587.4
1551.1
1483.7
1395.2
1293.0
1179.8
1080.5
1035.5
969.5
879.6
805.6
756.3
720.1
699.1
646.8
622.2
592.5
563.4
529.4
493.1
456.8
414.8
377.1
355.3
269.0
213.9
163.2
94.3
0.0

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