

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: P941045

Luminaire Tested: **GALN-SB4B-927-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941045
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-SB4B-927-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13611 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

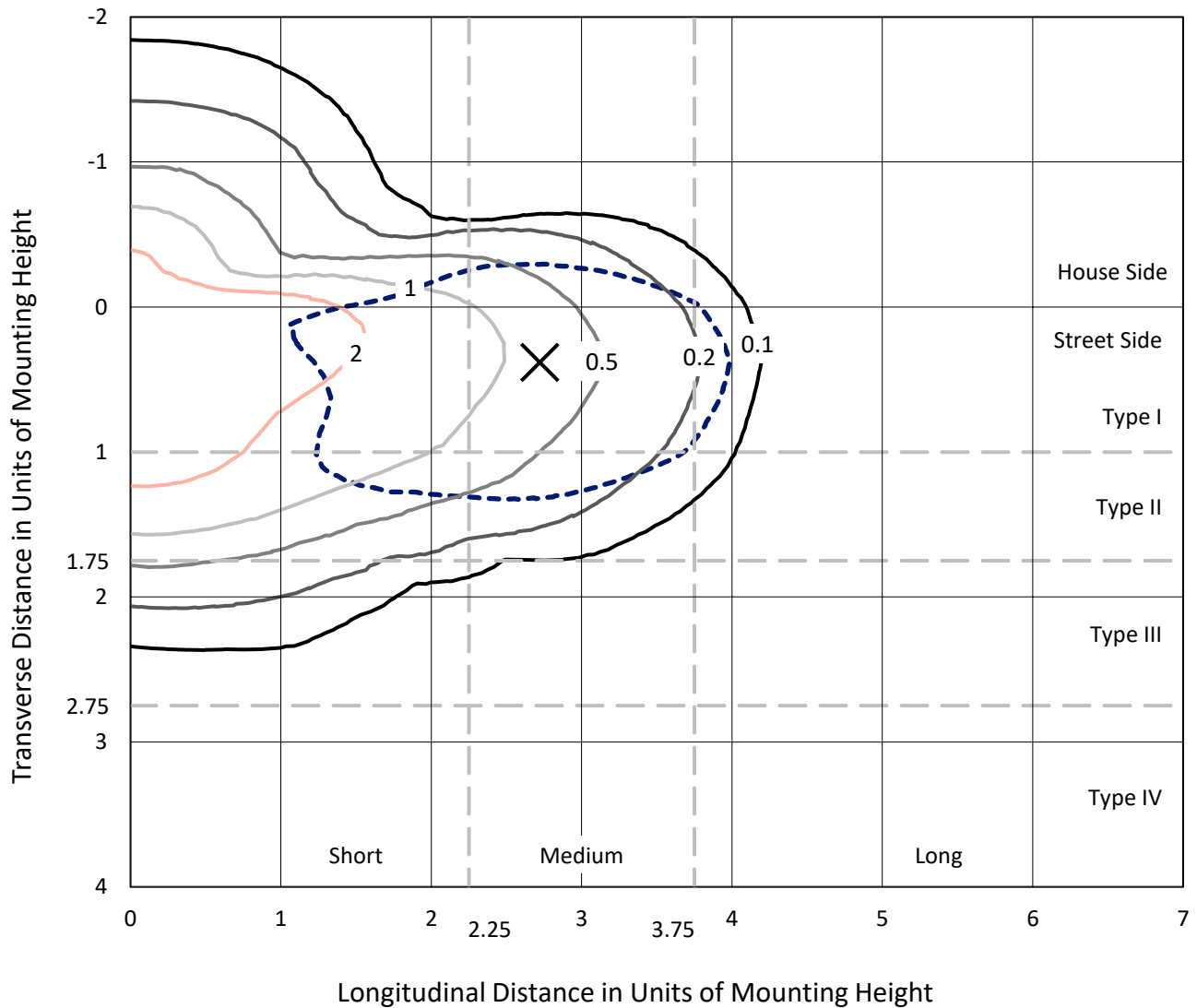
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

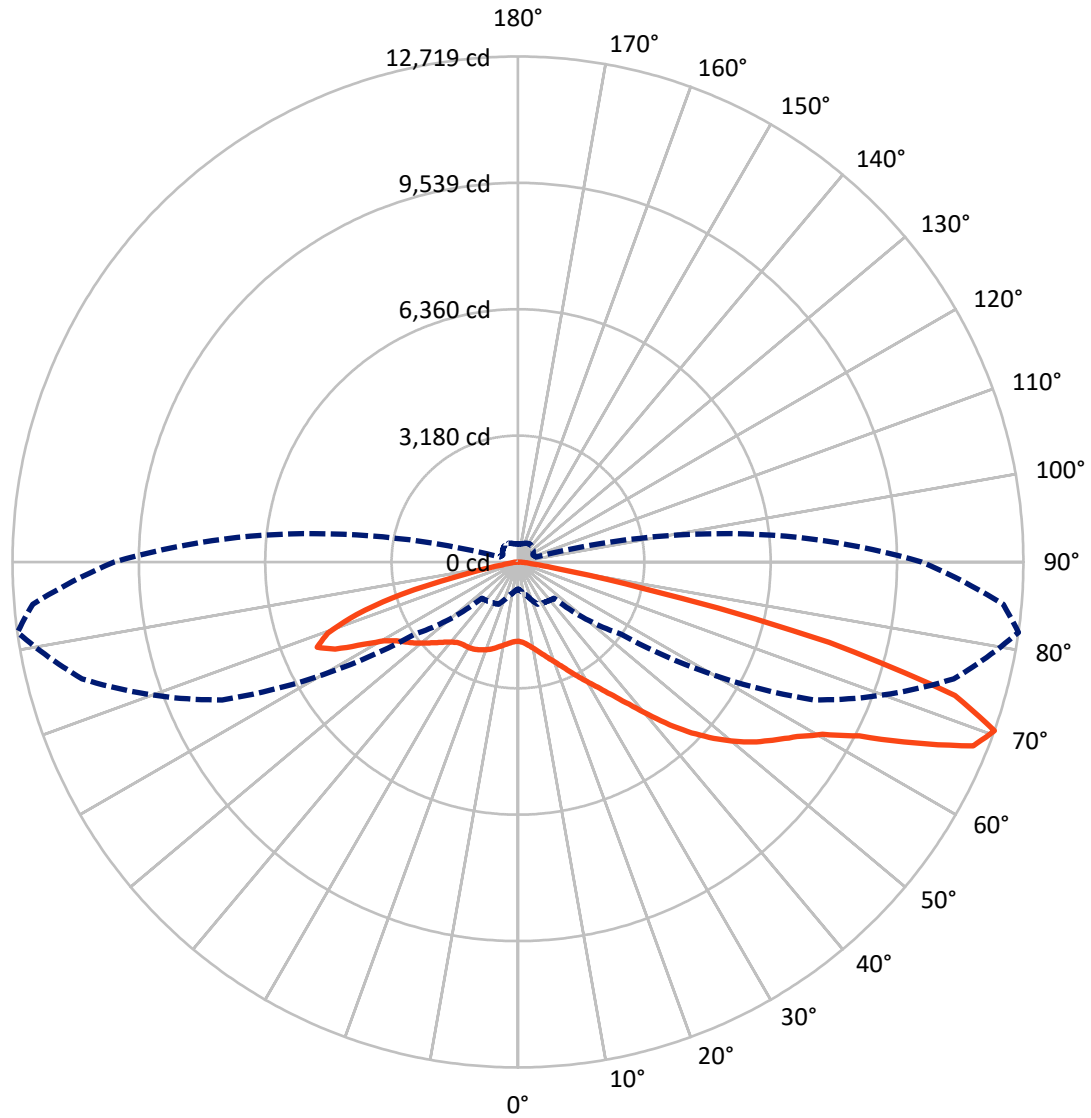
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	3355.4	0.0	3355.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	10255.6	0.0	10255.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	13611.0	0.0	13611.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.4	1.4
10°-20°	541.3	4.0
20°-30°	905.6	6.7
30°-40°	1414.8	10.4
40°-50°	2253.2	16.6
50°-60°	3135.6	23.0
60°-70°	3279.9	24.1
70°-80°	1714.3	12.6
80°-90°	178.0	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°	13611.0	100.0
0°-180°	13611.0	100.0

Coefficient of Utilization



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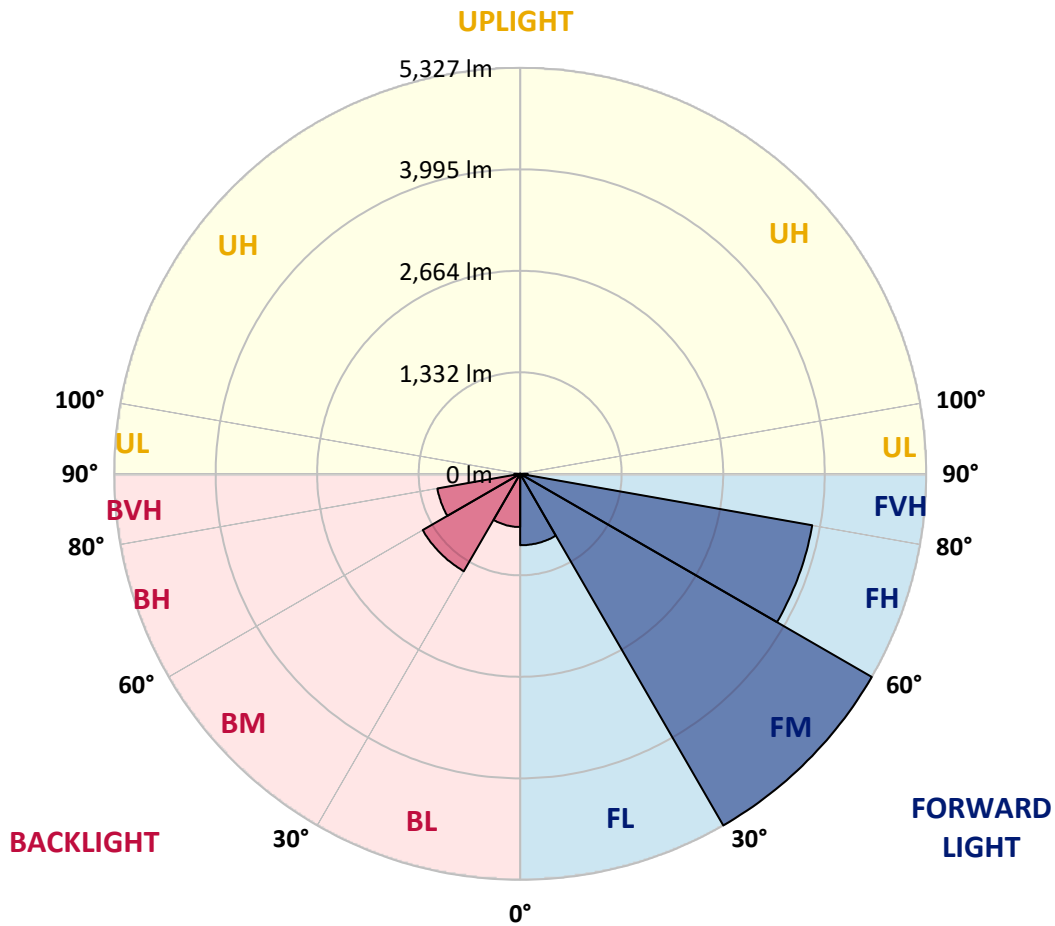
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	937.3	6.9			
FM (30°-60°)	5327.2	39.1			
FH (60°-80°)	3891.4	28.6			G2/5000
FVH (80°-90°)	99.7	0.7			G1/100
BL (0°-30°)	698.1	5.1	B2/1000		
BM (30°-60°)	1476.3	10.8	B2/2500		
BH (60°-80°)	1102.8	8.1	B3/2500		G3/2500
BVH (80°-90°)	78.4	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°	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5
2.5°	2043.2	2054.8	2051.2	2047.5	2047.5	2042.5	2041.8	2034.5	2028.8	2019.4
5°	2069.2	2081.5	2080.0	2082.9	2092.3	2094.5	2096.7	2092.3	2080.8	2069.2
7.5°	2046.1	2059.8	2064.2	2081.5	2110.4	2136.4	2155.9	2163.8	2153.0	2136.4
10°	1968.1	1983.3	1998.4	2039.6	2090.9	2152.3	2204.3	2235.3	2233.2	2217.3
12.5°	1809.9	1825.8	1858.3	1938.5	2032.4	2140.7	2237.5	2302.5	2324.9	2313.3
15°	1683.5	1697.3	1721.8	1804.1	1926.2	2090.9	2249.8	2376.2	2433.2	2426.7
17.5°	1679.9	1685.7	1700.9	1739.9	1833.8	2012.9	2236.8	2448.4	2557.4	2556.7
20°	1743.5	1745.6	1754.3	1762.3	1815.7	1953.7	2203.5	2508.3	2696.8	2696.8
22.5°	1831.6	1830.2	1838.8	1831.6	1857.6	1948.6	2182.6	2561.1	2852.1	2863.7
25°	1963.8	1956.5	1954.4	1937.8	1942.8	1995.5	2205.7	2621.0	3036.3	3060.1
27.5°	2140.0	2128.4	2120.5	2082.2	2069.2	2092.3	2276.5	2693.2	3241.4	3282.6
30°	2369.7	2348.7	2337.2	2270.7	2223.8	2227.4	2383.4	2789.3	3455.9	3522.4
32.5°	2683.1	2650.6	2619.6	2510.5	2424.6	2396.4	2521.3	2922.2	3688.5	3794.6
35°	3034.1	3008.1	2974.9	2806.6	2674.4	2609.4	2707.7	3107.8	3960.8	4129.0
37.5°	3372.1	3349.7	3365.6	3138.8	2968.4	2873.8	2951.8	3357.0	4296.6	4545.0
40°	3721.7	3704.4	3706.5	3489.9	3291.2	3185.1	3247.9	3669.7	4681.5	5039.8
42.5°	4101.6	4088.6	4045.3	3853.1	3630.0	3531.0	3588.8	4030.8	5094.7	5603.1
45°	4527.0	4519.0	4478.6	4258.3	4002.6	3891.4	3969.4	4429.5	5510.0	6133.2
47.5°	4894.6	4901.1	4896.0	4710.4	4445.4	4282.1	4375.3	4845.5	5896.3	6631.6
50°	5071.6	5105.5	5155.3	5097.6	4932.9	4766.8	4784.8	5247.1	6264.7	7098.9
52.5°	4979.1	5043.4	5179.2	5271.6	5335.2	5300.5	5252.1	5645.7	6611.4	7520.7
55°	4634.6	4724.9	4950.2	5173.4	5497.7	5749.7	5813.3	6087.7	6949.4	7891.9
57.5°	4007.0	4153.6	4355.8	4807.2	5353.2	5967.1	6467.6	6700.9	7307.6	8288.4
60°	2930.8	3127.3	3378.6	4050.3	4847.7	5850.8	7024.5	7642.7	7816.8	8801.9
62.5°	1875.7	1997.0	2228.1	2860.8	3777.3	5255.0	7194.9	8820.0	8679.9	9644.0
65°	1284.1	1362.1	1573.8	1929.1	2441.9	3911.6	6738.5	9702.5	10050.7	10978.7
67.5°	933.1	992.4	1172.9	1484.2	1591.1	2314.8	5229.0	9662.1	11383.2	12353.9
70°	680.3	722.2	873.9	1172.9	1224.2	1287.7	3167.7	8213.3	11354.3	12719.3
72.5°	504.1	533.0	634.8	910.0	990.9	869.6	1568.0	5969.3	9756.7	11504.5
75°	364.7	386.4	461.5	696.2	793.0	662.3	782.2	3488.4	6805.6	8092.7
77.5°	278.8	295.4	344.5	509.9	634.8	496.9	485.3	1604.8	3227.0	3242.8
80°	223.9	234.7	261.5	359.0	486.8	372.0	316.3	647.8	1019.8	863.1
82.5°	164.7	182.7	221.0	252.1	348.1	256.4	192.8	327.2	387.8	333.7
85°	93.9	106.2	133.6	180.6	222.4	156.7	110.5	145.2	180.6	148.1
87.5°	33.2	43.3	46.9	70.8	96.8	65.0	42.6	41.9	59.2	44.1
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°
1995.5	0°	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5
2017.2	2.5°	2010.0	2006.4	1991.9	1972.4	1952.2	1932.7	1926.2	1912.5	1903.1	1898.0
2064.2	5°	2050.4	2038.9	2004.9	1961.6	1916.1	1867.0	1832.3	1800.5	1777.4	1755.8
2128.4	7.5°	2108.2	2088.0	2029.5	1953.7	1872.8	1791.1	1730.5	1684.3	1653.2	1633.0
2203.5	10°	2175.4	2144.3	2054.8	1941.4	1816.4	1699.4	1627.9	1588.2	1568.7	1557.9
2289.5	12.5°	2252.7	2208.6	2080.8	1913.2	1730.5	1596.9	1547.8	1536.2	1536.9	1537.6
2397.8	15°	2348.0	2286.6	2101.7	1851.8	1618.5	1518.1	1509.5	1528.3	1547.8	1557.1
2520.6	17.5°	2455.6	2368.9	2105.3	1750.7	1508.8	1467.6	1495.0	1535.5	1565.1	1578.1
2657.8	20°	2571.2	2452.7	2079.3	1607.7	1418.5	1426.4	1475.5	1527.5	1560.0	1576.6
2814.6	22.5°	2703.3	2542.3	2017.2	1457.5	1344.8	1381.6	1439.4	1490.0	1523.9	1540.5
2998.7	25°	2854.3	2642.7	1919.7	1331.1	1281.2	1331.1	1388.9	1430.8	1458.2	1473.4
3204.6	27.5°	3021.8	2747.4	1789.7	1230.7	1225.6	1279.1	1326.8	1359.3	1373.7	1385.3
3423.4	30°	3190.1	2842.7	1632.3	1154.9	1177.2	1227.8	1261.7	1276.2	1280.5	1282.7
3667.5	32.5°	3372.1	2925.1	1466.9	1092.0	1131.0	1178.0	1198.2	1204.7	1184.5	1170.7
3963.6	35°	3592.4	3013.2	1305.1	1042.2	1085.5	1126.0	1132.5	1126.7	1102.9	1074.7
4334.9	37.5°	3864.7	3123.0	1175.8	1006.8	1042.9	1069.6	1061.7	1060.2	1062.4	1029.2
4781.2	40°	4198.4	3266.0	1081.2	979.4	1008.2	1014.0	991.6	1003.9	1014.7	964.2
5270.9	42.5°	4568.9	3438.6	1021.2	960.6	979.4	965.6	931.0	944.7	943.2	876.8
5762.7	45°	4946.6	3626.4	1000.3	946.9	952.6	925.2	886.9	890.5	860.2	800.2
6234.4	47.5°	5322.2	3827.9	1013.3	935.3	919.4	888.4	858.7	842.9	798.1	753.3
6686.5	50°	5690.5	4039.5	1061.0	912.2	873.9	855.9	834.2	806.0	758.3	720.1
7114.0	52.5°	6032.1	4252.5	1114.4	873.9	816.9	827.7	814.0	781.5	734.5	695.5
7518.5	55°	6355.7	4465.6	1135.4	821.2	763.4	803.1	795.2	735.2	678.9	647.1
7941.7	57.5°	6708.1	4722.0	1112.2	754.0	720.1	775.0	744.6	678.2	645.7	621.8
8492.8	60°	7196.4	5124.3	1062.4	671.0	678.9	733.1	681.1	653.6	618.2	591.5
9319.0	62.5°	8007.4	5874.7	982.2	588.6	630.5	671.0	650.7	623.3	587.2	561.2
10731.7	65°	9206.4	6917.6	831.3	524.3	576.3	610.3	618.2	590.8	553.2	525.8
11969.6	67.5°	10217.5	7571.9	629.1	470.9	520.7	561.2	583.6	556.8	517.1	490.4
12259.3	70°	10161.9	7096.7	480.3	418.2	471.6	512.8	541.7	520.7	478.1	452.8
11135.5	72.5°	9025.8	5936.8	388.6	364.7	421.8	462.2	496.9	481.0	437.7	413.1
8157.7	75°	6630.9	4214.3	310.6	310.6	359.7	409.5	447.8	437.7	398.0	380.6
3424.9	77.5°	2795.1	1768.0	243.4	257.8	299.0	351.7	399.4	403.0	368.3	390.0
905.7	80°	743.2	487.5	185.6	202.9	234.7	290.3	347.4	346.0	308.4	288.2
336.6	82.5°	283.1	192.1	132.2	143.0	169.7	222.4	275.2	283.8	246.3	213.1
132.2	85°	109.1	82.3	81.6	85.9	98.9	147.3	208.0	215.2	185.6	157.4
36.8	87.5°	28.2	24.6	30.3	28.9	45.5	78.7	119.2	123.5	113.4	65.7
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>
1995.5
1903.8
1764.4
1637.3
1560.8
1539.1
1556.4
1581.0
1581.0
1544.9
1477.7
1389.6
1287.7
1175.1
1076.1
1031.4
965.6
876.1
802.4
753.3
717.2
696.2
644.2
619.7
590.1
561.2
527.2
491.1
455.0
413.1
375.6
353.9
268.0
213.1
162.5
93.9
0.0

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