

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: P939559

Luminaire Tested: **GALN-SB2A-950-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-950-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6168 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

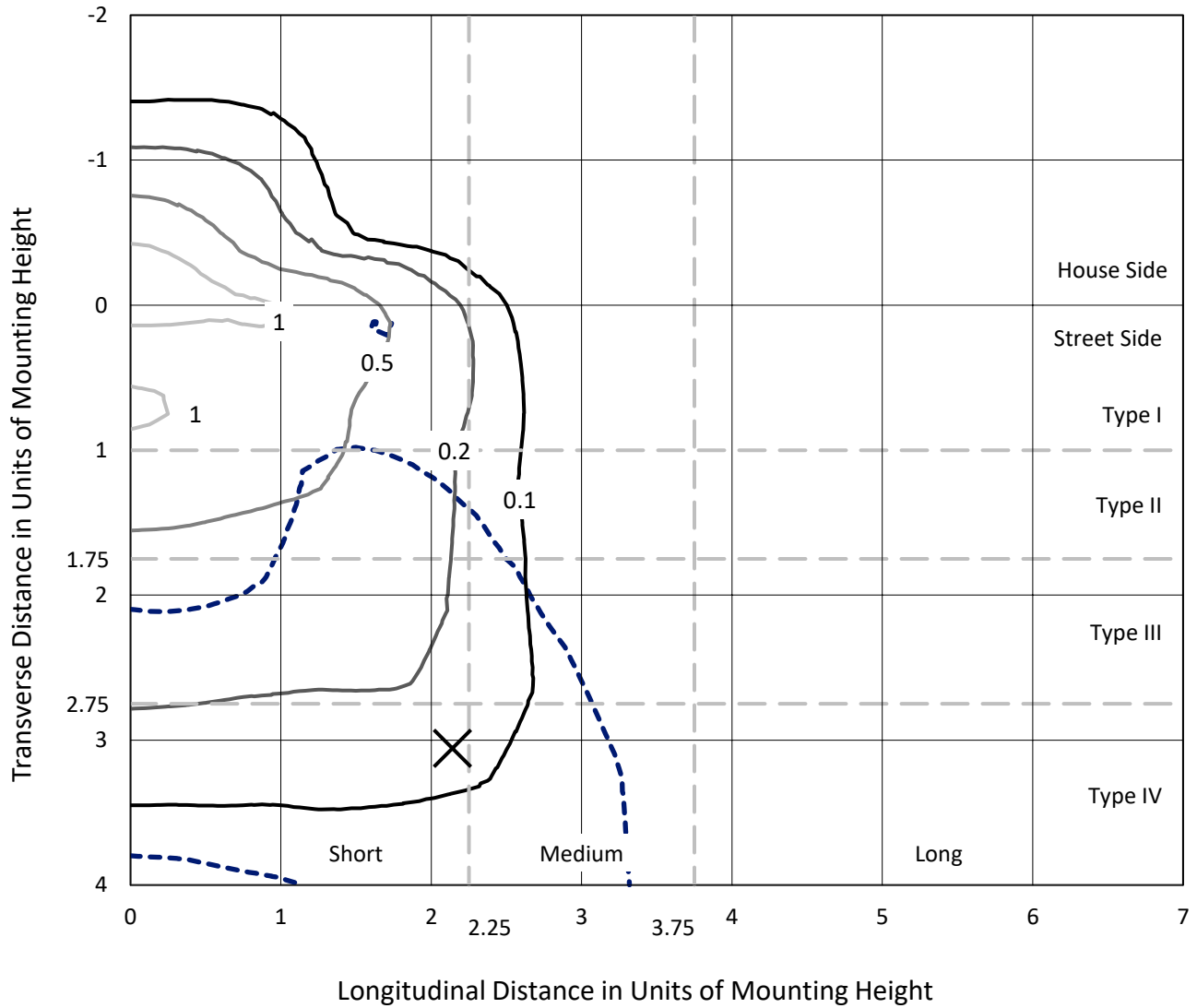
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

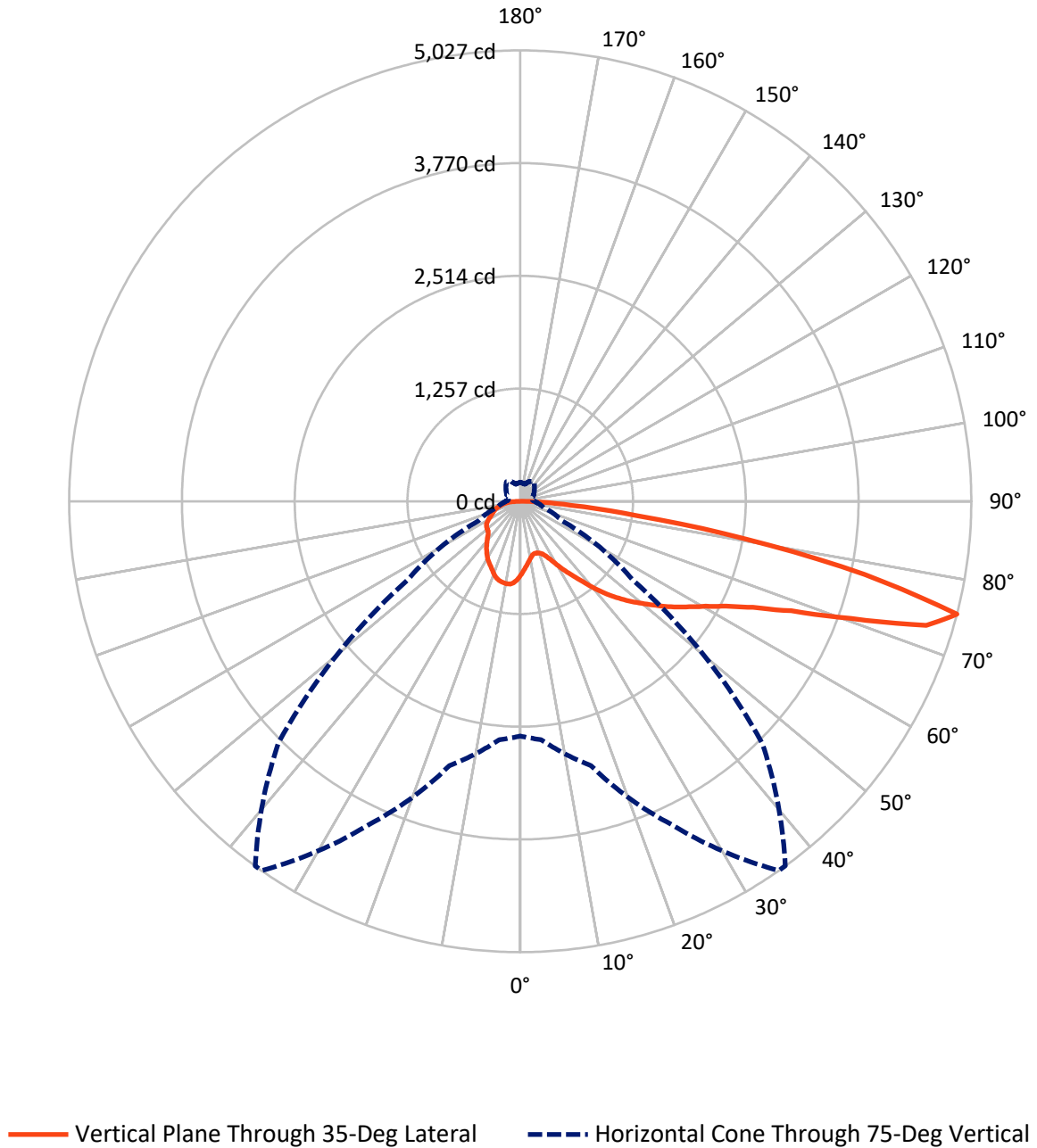
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1467.8	0.0	1467.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	4700.2	0.0	4700.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	6168.0	0.0	6168.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.8	1.3
10°-20°	224.5	3.6
20°-30°	376.9	6.1
30°-40°	585.8	9.5
40°-50°	869.5	14.1
50°-60°	1200.4	19.5
60°-70°	1456.4	23.6
70°-80°	1203.6	19.5
80°-90°	173.1	2.8
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°	6168.0	100.0
0°-180°	6168.0	100.0

Coefficient of Utilization



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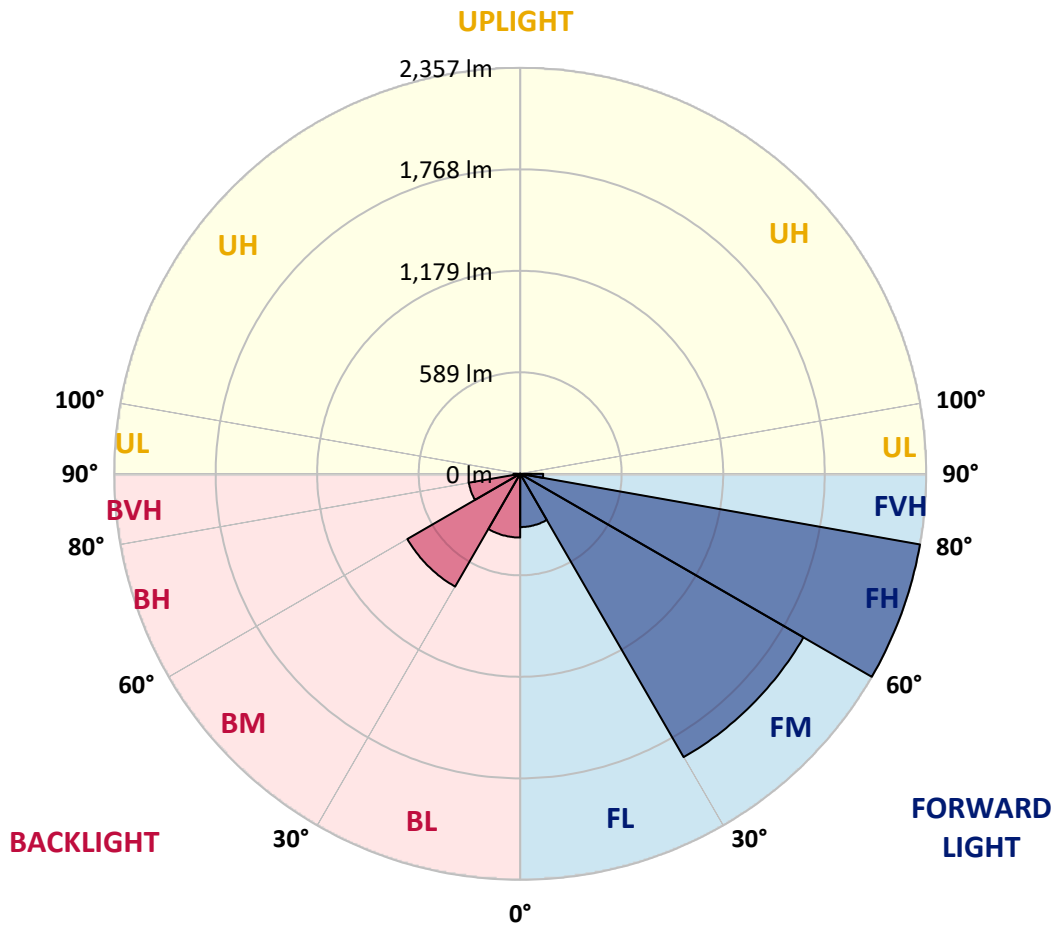
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	309.3	5.0			
FM (30°-60°)	1899.4	30.8			
FH (60°-80°)	2357.3	38.2			G2/5000
FVH (80°-90°)	134.1	2.2			G2/225
BL (0°-30°)	369.9	6.0	B1/500		
BM (30°-60°)	756.3	12.3	B1/1000		
BH (60°-80°)	302.6	4.9	B1/500		G1/500
BVH (80°-90°)	39.0	0.6			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9
2.5°	757.9	762.6	764.6	763.6	768.6	767.9	774.9	783.6	795.6	807.3
5°	699.6	704.6	708.9	712.9	722.6	725.6	736.6	753.2	775.2	797.6
7.5°	645.2	649.5	656.2	663.5	679.9	682.9	701.2	727.2	757.9	790.6
10°	600.9	605.2	612.2	620.5	640.9	644.5	667.9	702.6	742.6	783.9
12.5°	581.9	583.2	587.2	595.5	613.2	615.5	641.2	680.9	727.6	778.9
15°	580.9	583.5	583.9	588.2	602.9	603.9	627.5	666.9	718.2	777.9
17.5°	590.9	592.9	589.9	592.5	604.9	606.5	625.2	660.2	715.2	782.2
20°	617.5	619.2	610.2	606.5	615.5	616.9	635.2	664.5	718.2	791.3
22.5°	674.2	675.2	653.2	638.2	638.9	639.5	655.5	682.2	729.9	807.6
25°	762.6	761.9	726.9	697.9	681.2	677.5	688.2	710.9	749.6	829.3
27.5°	865.9	860.9	825.9	782.6	746.2	740.9	738.6	748.2	777.6	857.9
30°	982.6	978.0	940.3	883.6	833.3	824.6	802.6	797.6	819.3	897.0
32.5°	1110.7	1107.7	1062.7	994.0	926.6	916.6	879.6	866.3	883.3	956.0
35°	1218.1	1215.4	1178.0	1107.4	1025.0	1012.7	975.0	960.0	968.6	1031.7
37.5°	1315.1	1313.8	1281.7	1226.1	1141.0	1126.0	1083.7	1078.7	1077.0	1131.4
40°	1405.1	1401.8	1368.4	1339.1	1276.1	1262.4	1225.1	1220.7	1208.1	1254.1
42.5°	1504.8	1496.1	1447.8	1434.1	1417.1	1405.8	1383.4	1384.1	1356.1	1392.4
45°	1586.2	1581.2	1531.5	1523.5	1541.8	1537.2	1556.5	1561.5	1507.1	1537.5
47.5°	1673.5	1668.9	1626.9	1621.2	1670.9	1672.2	1740.6	1742.2	1654.5	1688.2
50°	1781.2	1774.6	1732.9	1739.9	1795.6	1800.6	1925.6	1914.3	1790.2	1841.3
52.5°	1852.3	1856.3	1847.3	1858.6	1934.6	1939.3	2107.7	2078.7	1924.6	1992.3
55°	1904.6	1912.6	1940.6	1966.6	2081.3	2086.0	2279.4	2235.0	2036.0	2132.3
57.5°	1972.0	1960.6	2013.0	2063.7	2220.7	2233.0	2446.4	2385.8	2134.7	2253.0
60°	2068.7	2060.7	2101.3	2176.4	2376.8	2396.4	2623.2	2521.5	2207.0	2348.7
62.5°	2264.7	2244.7	2251.0	2317.4	2573.5	2599.5	2822.6	2639.8	2243.0	2386.1
65°	2557.8	2523.5	2491.5	2537.5	2850.6	2876.2	3047.6	2732.9	2229.7	2313.7
67.5°	2926.9	2892.9	2853.6	2896.9	3258.7	3279.0	3325.4	2785.2	2124.7	2035.0
70°	3231.4	3218.7	3265.7	3444.1	3910.6	3911.2	3681.5	2741.9	1836.9	1442.8
72.5°	3191.0	3183.3	3431.1	3982.6	4732.2	4714.5	4018.6	2413.8	1237.4	650.9
75°	2617.8	2667.5	3051.3	3972.9	5027.3	5024.9	3812.2	1534.5	511.8	269.8
77.5°	1403.8	1482.5	1981.0	2933.3	3924.6	3983.6	2680.2	536.8	219.7	172.7
80°	457.8	526.5	789.6	1493.5	2550.1	2539.1	1148.7	210.7	150.4	122.4
82.5°	194.4	202.4	352.8	705.2	1308.7	1288.4	365.8	121.0	105.7	83.7
85°	76.0	85.0	155.7	326.1	566.8	554.5	132.0	60.0	67.7	54.7
87.5°	25.0	30.3	55.7	111.7	176.4	170.1	32.3	20.7	29.3	25.0
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°
821.9	0°	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9	821.9
824.3	2.5°	828.9	834.3	840.6	849.9	857.9	864.6	871.6	875.9	877.6	882.6
825.6	5°	834.9	846.6	862.3	877.6	892.6	901.6	909.6	913.6	917.3	920.0
829.3	7.5°	844.9	859.9	884.6	904.6	917.3	924.6	930.0	928.6	930.0	930.6
833.3	10°	853.6	874.6	904.0	923.0	932.6	933.0	931.6	927.0	924.6	925.0
839.3	12.5°	863.9	887.3	919.0	935.0	937.6	930.3	924.6	916.6	913.6	912.3
848.3	15°	877.9	904.6	935.3	941.3	934.6	925.3	915.6	902.6	896.0	890.6
863.6	17.5°	895.0	924.3	948.0	943.6	929.3	914.0	898.3	878.6	864.9	859.3
884.6	20°	918.6	945.0	957.6	938.6	917.0	893.6	866.9	842.9	830.3	824.6
911.3	22.5°	947.3	972.6	967.0	930.0	899.3	861.9	828.6	810.9	804.6	800.6
945.6	25°	981.6	1003.3	973.6	917.3	870.3	819.9	794.3	788.6	785.6	782.6
987.6	27.5°	1026.3	1038.0	978.6	898.6	824.9	775.2	765.9	766.9	765.9	760.9
1046.0	30°	1085.3	1083.0	983.3	868.3	772.9	734.9	735.6	739.9	740.6	737.2
1127.4	32.5°	1163.0	1139.4	985.6	828.9	723.2	699.6	700.2	704.9	708.2	702.6
1233.7	35°	1257.1	1205.0	982.0	779.6	684.9	665.9	660.9	662.2	663.2	657.9
1362.8	37.5°	1366.8	1278.7	965.6	724.9	653.2	632.9	622.2	613.2	607.9	602.9
1508.8	40°	1487.1	1359.1	935.6	671.5	617.9	597.9	581.9	564.8	546.8	540.2
1663.5	42.5°	1613.2	1441.8	899.3	620.5	577.2	560.8	543.8	519.2	492.2	478.5
1824.2	45°	1743.9	1526.5	863.6	570.2	535.5	528.5	508.8	479.2	449.8	432.5
1985.3	47.5°	1871.9	1606.5	811.3	519.5	496.5	504.2	488.8	461.5	428.8	401.5
2145.0	50°	1994.3	1681.5	725.6	468.1	464.8	496.8	482.2	442.8	405.5	370.5
2301.7	52.5°	2115.7	1742.2	615.9	421.5	447.8	494.8	473.5	430.1	384.5	347.8
2449.1	55°	2218.7	1773.6	510.2	381.5	423.1	477.8	463.1	415.1	354.8	315.8
2550.1	57.5°	2277.4	1748.2	422.1	342.1	389.1	449.8	445.5	383.1	319.4	289.4
2569.8	60°	2252.0	1645.5	350.1	307.8	356.8	419.5	414.8	351.4	292.4	264.1
2464.4	62.5°	2112.3	1449.8	293.1	277.8	327.4	388.5	384.1	327.1	271.8	244.4
2184.7	65°	1830.9	1179.4	248.7	252.7	297.8	351.1	357.4	306.8	255.4	228.7
1690.2	67.5°	1396.4	854.3	214.1	231.1	268.8	314.4	332.8	292.1	241.7	216.4
978.0	70°	795.9	485.2	184.7	210.1	243.1	280.4	313.8	280.4	227.1	206.1
366.4	72.5°	301.8	222.7	159.7	189.1	218.4	251.7	292.8	262.1	210.1	194.4
189.4	75°	161.1	135.7	134.4	164.4	190.1	223.7	266.4	244.1	197.4	205.4
131.0	77.5°	109.7	96.0	112.4	140.7	159.1	192.7	238.4	216.7	171.1	170.4
90.7	80°	76.0	68.0	91.4	113.4	123.0	162.1	208.1	186.1	139.4	130.0
56.0	82.5°	45.7	44.3	68.4	84.7	87.0	125.0	172.4	156.0	114.0	99.4
33.3	85°	25.0	26.3	43.7	49.7	50.7	87.4	135.0	120.7	87.7	73.7
12.0	87.5°	7.0	9.0	16.0	19.7	24.3	45.3	80.4	71.7	44.0	30.7
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>
821.9
882.3
920.6
931.6
925.6
911.6
892.3
859.6
823.9
801.3
782.6
761.9
738.9
705.2
661.5
606.2
543.2
480.2
431.1
398.5
367.5
343.8
312.4
285.4
260.1
240.1
224.4
212.4
203.4
191.7
<i>212.1</i>
157.0
124.4
100.0
74.4
30.7
0.0

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