

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: P949458

Luminaire Tested: **GALN-SB4A-950-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-950-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12223 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

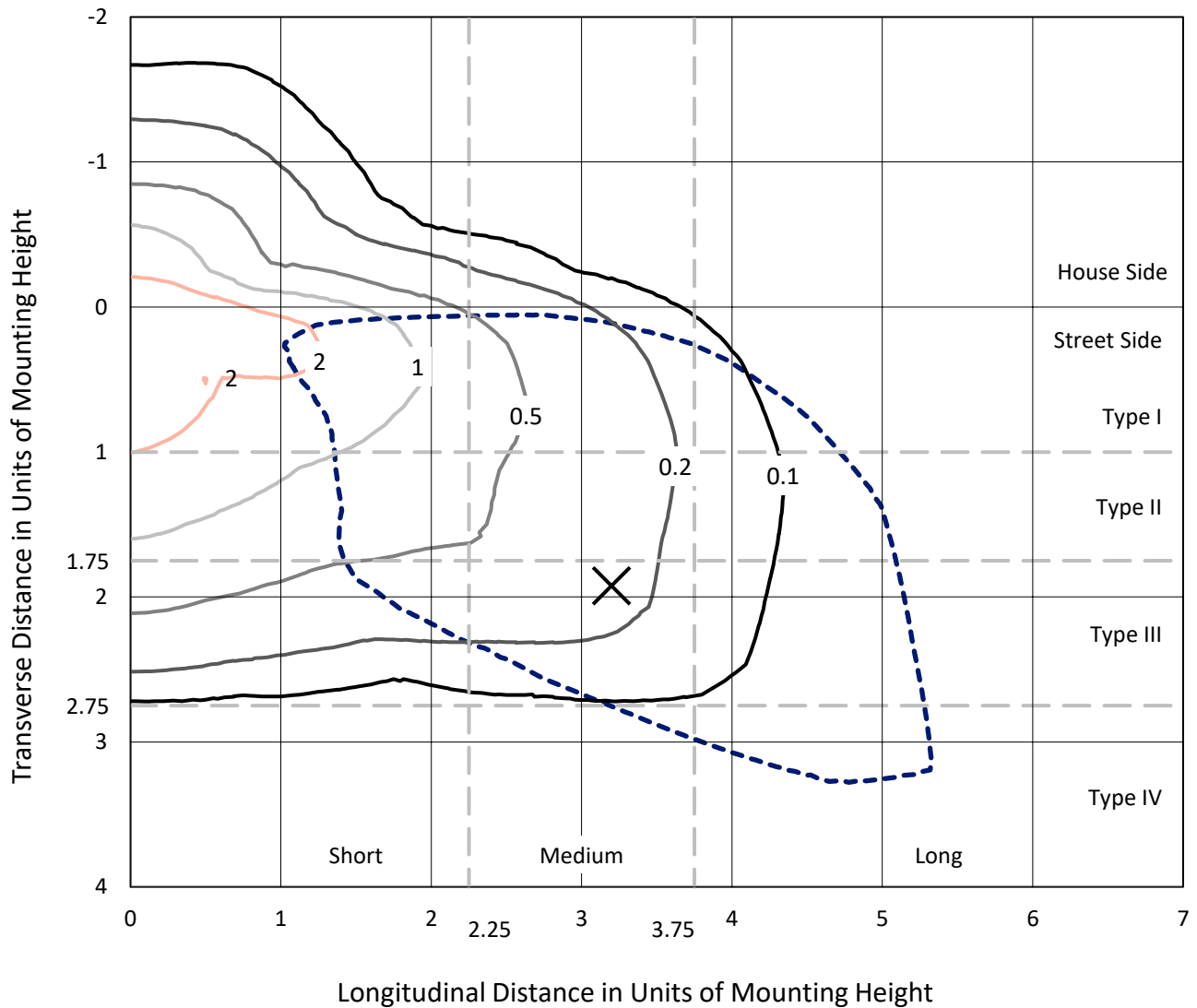
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

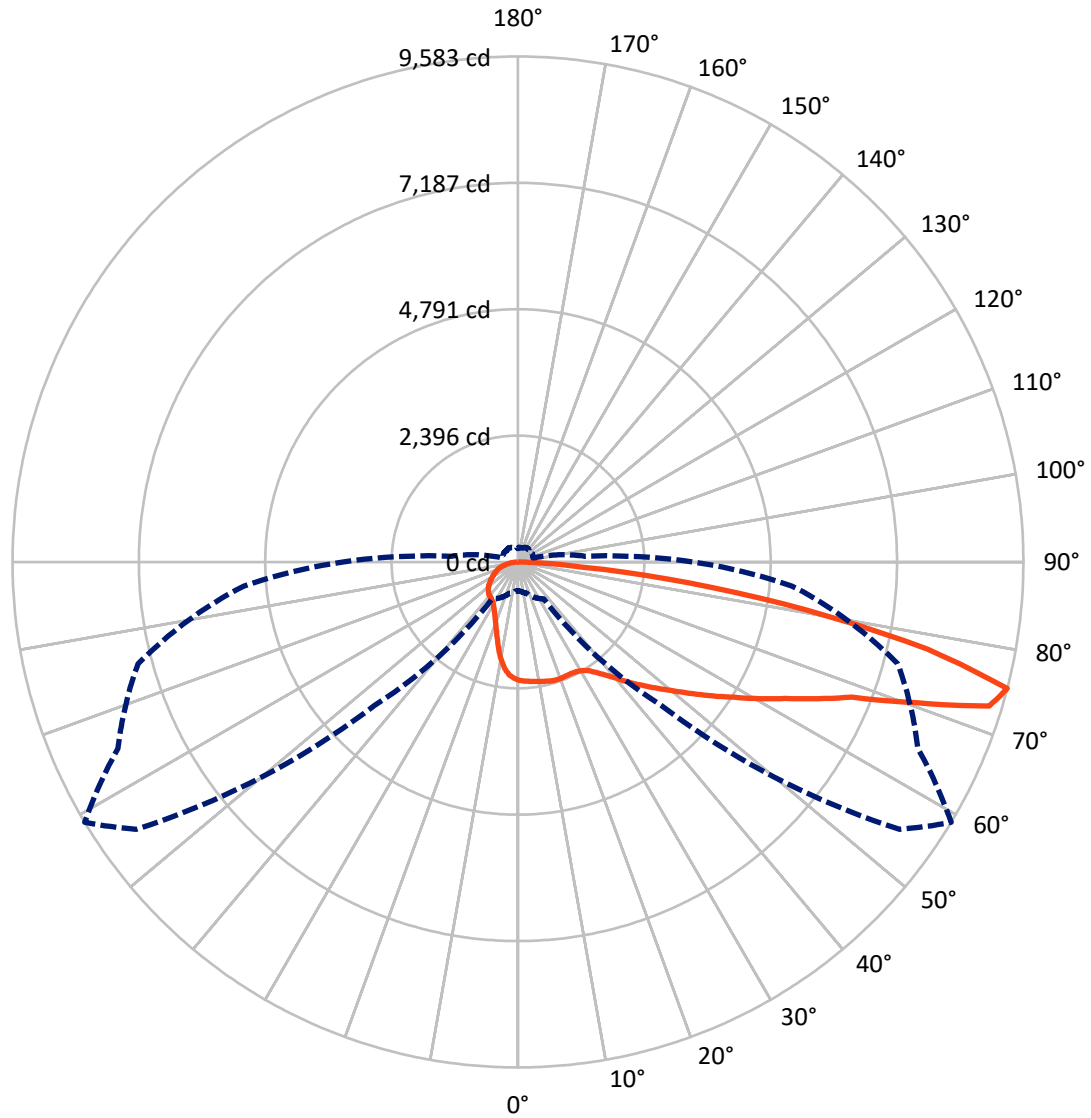
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2292.5	0.0	2292.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9930.5	0.0	9930.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	12223.0	0.0	12223.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.2	1.6
10°-20°	514.2	4.2
20°-30°	781.0	6.4
30°-40°	1161.0	9.5
40°-50°	1726.6	14.1
50°-60°	2343.6	19.2
60°-70°	2861.1	23.4
70°-80°	2245.4	18.4
80°-90°	389.0	3.2
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°	12223.0	100.0
0°-180°	12223.0	100.0

Coefficient of Utilization



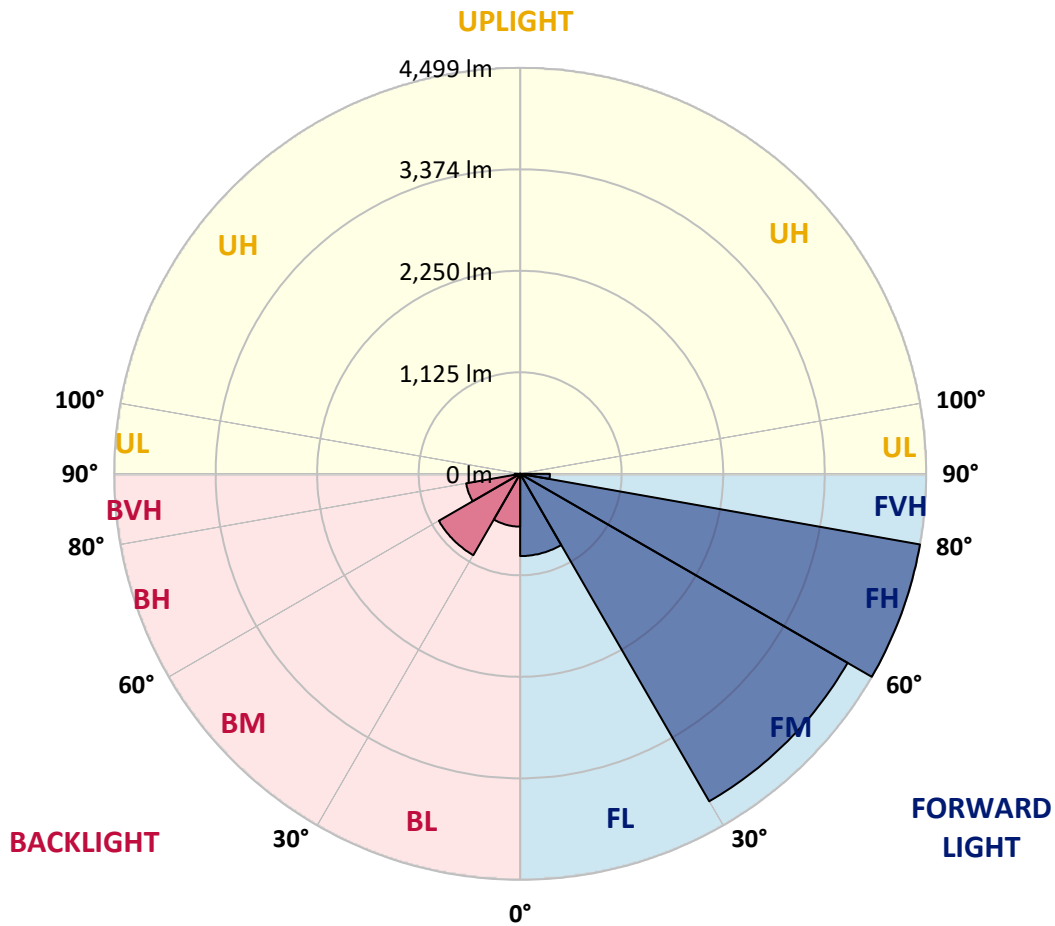
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	911.4	7.5			
FM (30°-60°)	4190.6	34.3			
FH (60°-80°)	4499.2	36.8			G2/5000
FVH (80°-90°)	329.4	2.7			G3/500
BL (0°-30°)	585.0	4.8	B2/1000		
BM (30°-60°)	1040.6	8.5	B2/2500		
BH (60°-80°)	607.4	5.0	B2/1000		G2/1000
BVH (80°-90°)	59.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	2243.5	2243.5	2243.5	2243.5	2243.5	2243.5	2243.5	2243.5	2243.5	2243.5
2.5°	2262.6	2254.7	2262.6	2259.3	2258.0	2255.3	2256.0	2260.6	2258.0	2261.3
5°	2247.4	2242.8	2250.7	2248.8	2257.3	2258.6	2267.2	2272.4	2275.7	2276.4
7.5°	2222.5	2217.9	2229.0	2238.2	2256.7	2261.9	2279.7	2288.2	2292.8	2300.7
10°	2131.1	2129.1	2156.7	2191.6	2235.0	2261.9	2288.9	2303.3	2310.6	2331.6
12.5°	1969.3	1971.9	2008.1	2075.2	2162.0	2248.8	2299.4	2320.4	2331.6	2357.9
15°	1814.8	1814.1	1853.6	1925.3	2046.9	2190.9	2304.7	2340.8	2359.9	2398.7
17.5°	1725.4	1722.7	1750.4	1804.9	1918.0	2102.1	2291.5	2352.0	2392.8	2441.4
20°	1708.9	1703.7	1718.1	1745.1	1825.3	2004.8	2257.3	2352.0	2419.1	2482.2
22.5°	1768.8	1760.2	1754.3	1751.0	1786.5	1924.6	2218.5	2344.1	2457.9	2540.7
25°	1889.1	1875.9	1845.7	1816.1	1805.6	1888.4	2184.3	2342.1	2515.7	2619.6
27.5°	2083.7	2067.3	2006.1	1935.1	1871.3	1906.8	2169.2	2354.0	2579.5	2703.1
30°	2325.0	2307.3	2230.4	2121.2	2006.8	1975.2	2188.3	2388.8	2661.0	2814.2
32.5°	2541.4	2521.6	2455.9	2344.8	2190.2	2093.6	2248.8	2455.2	2789.3	2968.8
35°	2733.4	2710.4	2651.2	2548.6	2415.1	2259.9	2357.9	2572.9	2971.4	3219.9
37.5°	2921.4	2894.5	2830.0	2721.5	2628.2	2481.5	2508.5	2724.2	3213.4	3525.0
40°	3131.8	3093.0	3014.8	2907.6	2816.9	2741.3	2706.4	2909.6	3459.3	3865.6
42.5°	3335.7	3298.8	3205.5	3114.1	3000.3	2978.6	2935.9	3126.6	3728.2	4239.8
45°	3555.3	3511.2	3398.1	3282.4	3210.7	3136.4	3158.1	3343.6	3991.9	4621.1
47.5°	3761.1	3711.8	3578.3	3449.4	3410.0	3269.3	3362.0	3582.2	4266.1	5007.8
50°	3872.2	3823.6	3712.4	3596.1	3565.1	3433.0	3582.9	3844.6	4553.4	5393.1
52.5°	3964.9	3912.3	3767.0	3702.6	3693.4	3611.2	3855.1	4144.4	4840.8	5733.7
55°	4063.6	4005.0	3819.6	3761.7	3803.8	3811.1	4178.0	4484.4	5144.5	6065.7
57.5°	4177.3	4103.0	3870.2	3811.7	3911.7	4045.1	4548.8	4836.8	5443.1	6373.5
60°	4284.5	4209.5	3967.6	3891.3	4028.1	4316.7	4974.2	5263.6	5781.0	6647.7
62.5°	4305.5	4243.7	4045.1	4044.5	4185.9	4633.6	5477.9	5694.2	6076.3	6918.6
65°	3941.3	3902.5	3784.8	4038.6	4412.1	5090.0	6038.8	6245.3	6451.7	7155.3
67.5°	2999.7	3004.9	2996.4	3486.2	4229.3	5745.5	6850.8	6835.1	6915.3	7420.9
70°	1371.6	1402.5	1603.7	2406.6	3388.3	5821.1	8193.5	7989.0	7497.2	7764.8
72.5°	741.0	764.7	846.9	1165.8	2037.0	5175.4	9196.9	9342.2	8271.1	7996.3
75°	543.8	556.9	614.1	741.0	855.5	3846.6	8837.3	9582.9	8367.8	7456.4
77.5°	407.0	412.9	459.6	587.2	437.9	2027.8	7061.3	7936.4	7163.2	6126.2
80°	295.2	301.8	336.7	440.5	307.1	741.7	4848.7	5570.6	4905.9	3905.1
82.5°	203.8	206.5	221.6	299.8	214.4	288.0	2751.1	3266.6	2738.6	1370.3
85°	123.0	126.2	132.8	174.9	121.6	136.8	1187.5	1228.3	818.6	327.5
87.5°	50.6	53.9	59.2	73.6	48.0	38.1	195.9	245.9	153.2	96.0
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°
2243.5	0°	2243.5	2243.5	2243.5	2243.5	2243.5	2243.5	2243.5	2243.5	2243.5	2243.5
2250.1	2.5°	2246.8	2242.2	2229.7	2212.6	2196.8	2177.1	2168.5	2161.3	2154.7	2142.2
2267.8	5°	2260.6	2248.1	2214.6	2171.2	2121.9	2067.9	2015.3	1979.2	1948.3	1925.3
2288.2	7.5°	2281.6	2258.0	2196.8	2108.1	1995.0	1879.2	1774.7	1700.4	1644.5	1624.1
2317.1	10°	2303.3	2275.1	2168.5	2012.1	1816.8	1638.6	1499.8	1423.6	1378.8	1364.4
2351.3	12.5°	2329.0	2287.6	2124.5	1878.6	1617.5	1422.2	1301.3	1256.5	1233.5	1225.6
2393.4	15°	2366.5	2298.1	2058.1	1711.6	1427.5	1264.4	1186.2	1155.3	1143.5	1142.8
2436.8	17.5°	2394.7	2300.1	1954.8	1532.7	1281.5	1169.1	1104.7	1092.8	1100.7	1112.5
2479.6	20°	2426.3	2282.3	1819.4	1369.6	1179.0	1085.6	1058.6	1066.5	1085.6	1102.7
2536.1	22.5°	2448.7	2250.1	1655.7	1242.7	1090.2	1037.6	1036.3	1052.7	1063.2	1071.8
2602.5	25°	2468.4	2195.5	1482.1	1136.2	1017.2	1008.7	1023.1	1017.9	1010.6	1017.9
2668.9	27.5°	2482.8	2109.4	1326.9	1042.8	965.9	988.9	980.4	968.5	967.9	971.8
2747.2	30°	2478.2	1994.3	1199.3	954.1	929.8	952.1	931.7	929.8	927.8	929.8
2864.9	32.5°	2478.2	1863.5	1101.4	892.9	906.7	898.2	896.2	891.6	883.7	883.1
3024.7	35°	2492.1	1732.6	1017.2	860.1	887.7	867.3	868.6	857.4	841.0	833.1
3236.4	37.5°	2520.3	1627.4	933.7	844.3	854.1	853.5	848.2	829.1	800.2	775.2
3500.7	40°	2588.7	1596.5	876.5	837.0	838.4	846.2	832.4	795.6	729.9	689.1
3769.0	42.5°	2695.9	1648.4	864.0	819.3	827.8	835.7	808.8	723.3	676.6	652.3
4050.4	45°	2832.0	1739.2	891.0	793.6	802.8	816.7	736.4	695.7	674.6	675.3
4329.2	47.5°	3004.3	1834.5	940.9	771.3	766.7	774.6	688.4	663.5	634.5	641.8
4596.8	50°	3203.5	1931.2	988.3	741.0	726.6	700.9	657.5	633.9	597.0	579.9
4855.2	52.5°	3419.2	2024.5	1007.3	704.2	683.2	653.6	636.5	607.6	562.8	534.6
5099.2	55°	3623.7	2109.4	986.3	660.2	639.8	616.8	614.1	596.4	548.4	508.9
5316.2	57.5°	3817.0	2180.4	933.7	615.5	595.7	581.9	599.7	591.1	530.6	480.0
5521.3	60°	3980.7	2229.0	857.4	570.1	556.3	549.0	576.0	573.4	505.6	449.1
5705.4	62.5°	4110.9	2248.1	773.3	526.7	523.4	510.2	543.1	543.1	474.1	418.8
5867.2	65°	4212.8	2229.7	687.8	483.9	490.5	470.8	503.0	499.1	440.5	391.9
6053.3	67.5°	4302.9	2169.2	593.1	441.9	457.0	432.0	460.9	451.7	403.7	364.9
6214.3	70°	4343.0	2028.5	485.3	399.8	418.2	393.9	418.8	401.8	362.3	336.0
6037.5	72.5°	4020.8	1685.9	382.0	355.7	371.5	351.8	373.5	353.8	317.6	305.8
5213.6	75°	3326.5	1265.1	293.9	307.7	319.6	304.4	318.9	304.4	271.6	280.1
3851.2	77.5°	2415.8	854.1	224.9	257.1	262.4	254.5	267.0	250.5	220.9	219.0
1919.3	80°	1201.3	500.4	176.2	203.2	201.2	195.9	210.4	202.5	177.5	188.1
518.1	82.5°	347.8	214.4	128.2	142.7	138.7	140.1	150.6	154.5	231.5	229.5
161.1	85°	109.2	84.2	76.9	79.6	75.6	77.6	88.8	176.2	163.1	95.3
50.0	87.5°	28.3	28.9	19.1	20.4	21.0	25.0	28.3	107.2	51.3	33.5
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>
2243.5
2136.3
1906.2
1588.6
1342.0
1227.6
1145.4
1117.1
1108.6
1076.4
1022.5
978.4
937.0
891.6
841.0
783.8
694.4
652.3
678.6
660.2
584.5
533.9
508.9
477.4
447.1
416.9
389.3
362.3
330.7
295.9
255.8
209.1
186.1
234.7
103.2
35.5
0.0

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