

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: P949437

Luminaire Tested: **GALN-SB4A-940-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949437
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-940-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 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: 12732 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

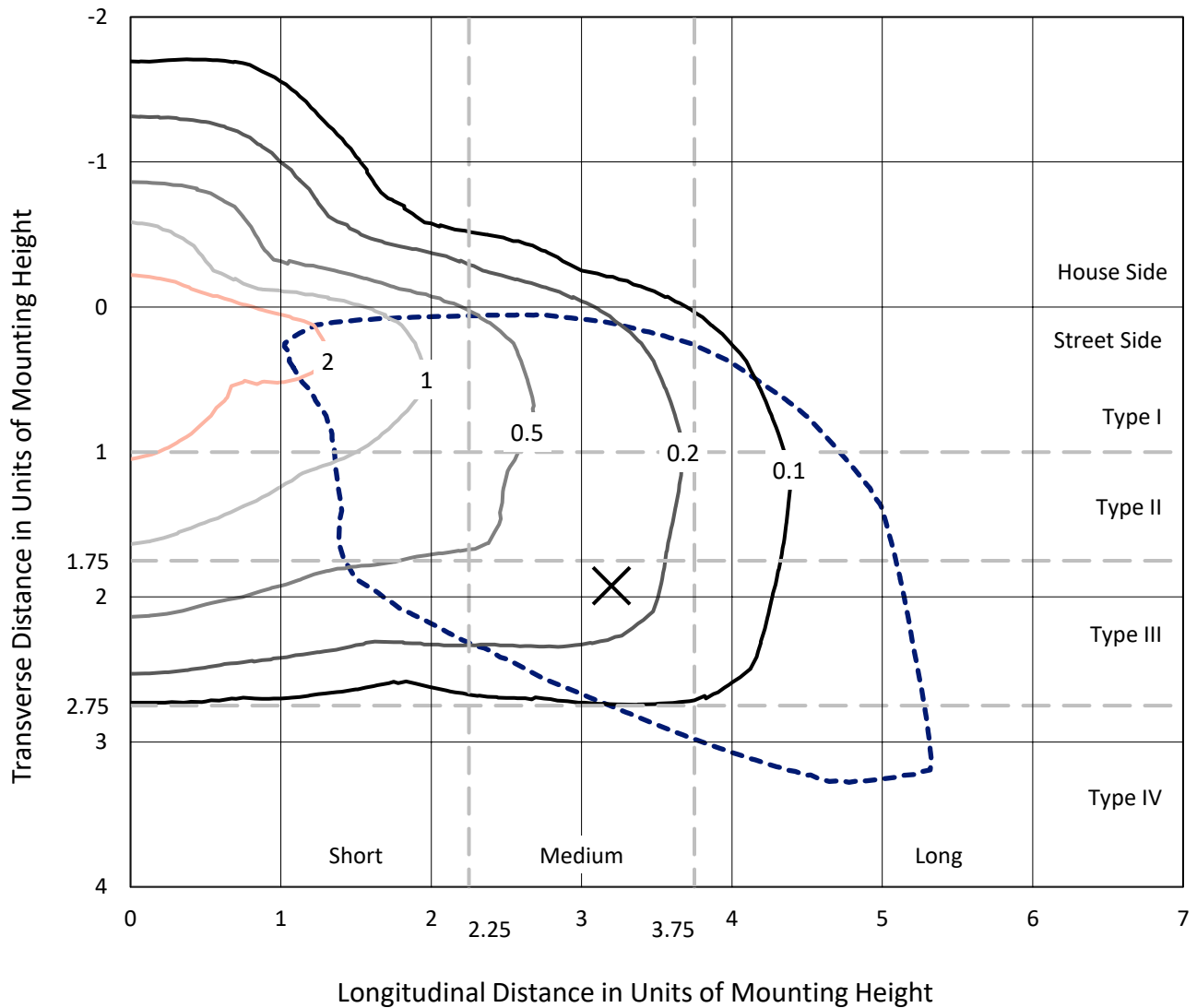
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

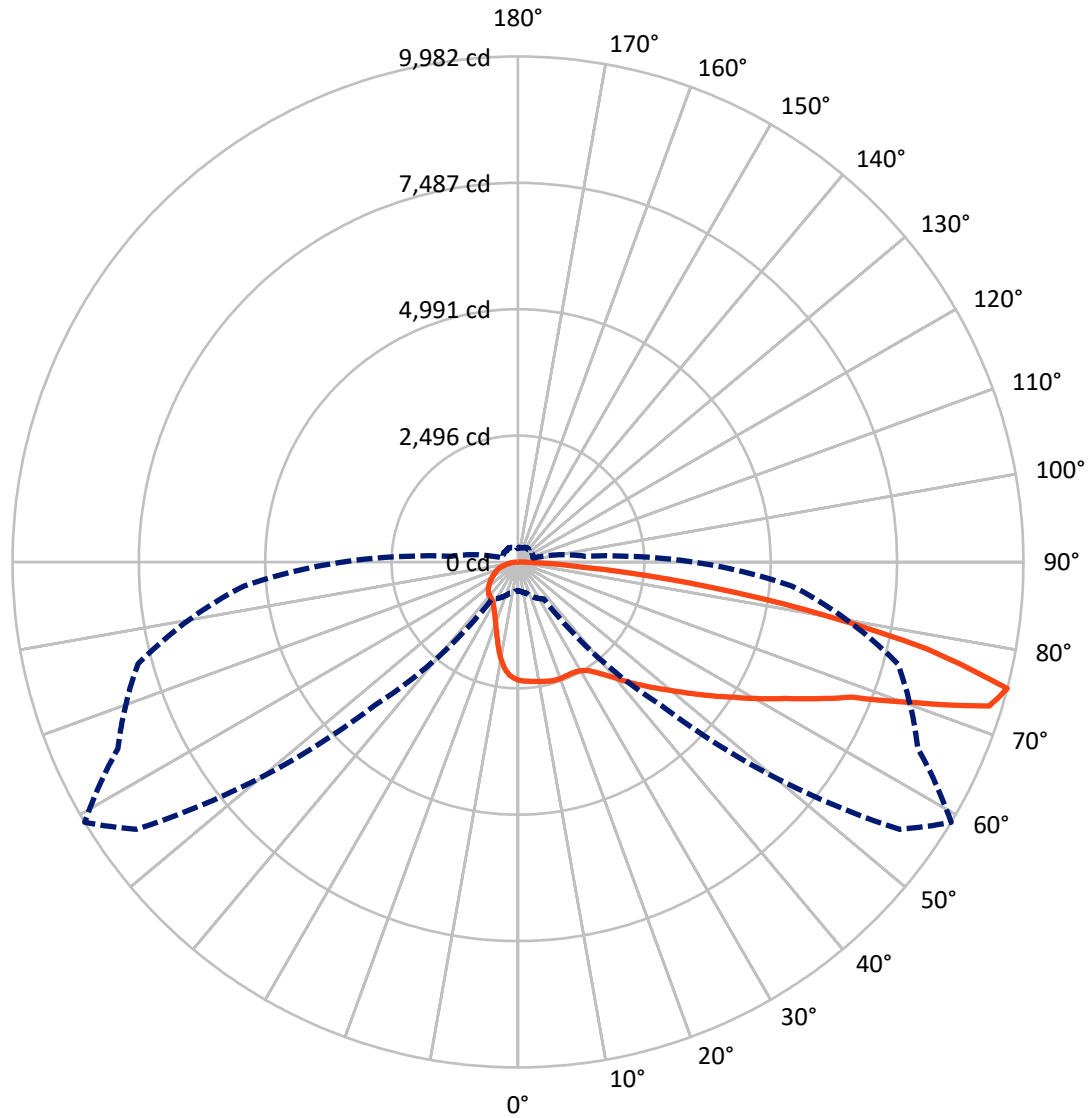
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	2388.0	0.0	2388.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	10344.0	0.0	10344.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	12732.0	0.0	12732.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.5	1.6
10°-20°	535.6	4.2
20°-30°	813.5	6.4
30°-40°	1209.3	9.5
40°-50°	1798.5	14.1
50°-60°	2441.2	19.2
60°-70°	2980.3	23.4
70°-80°	2338.9	18.4
80°-90°	405.2	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°	12732.0	100.0
0°-180°	12732.0	100.0

Coefficient of Utilization



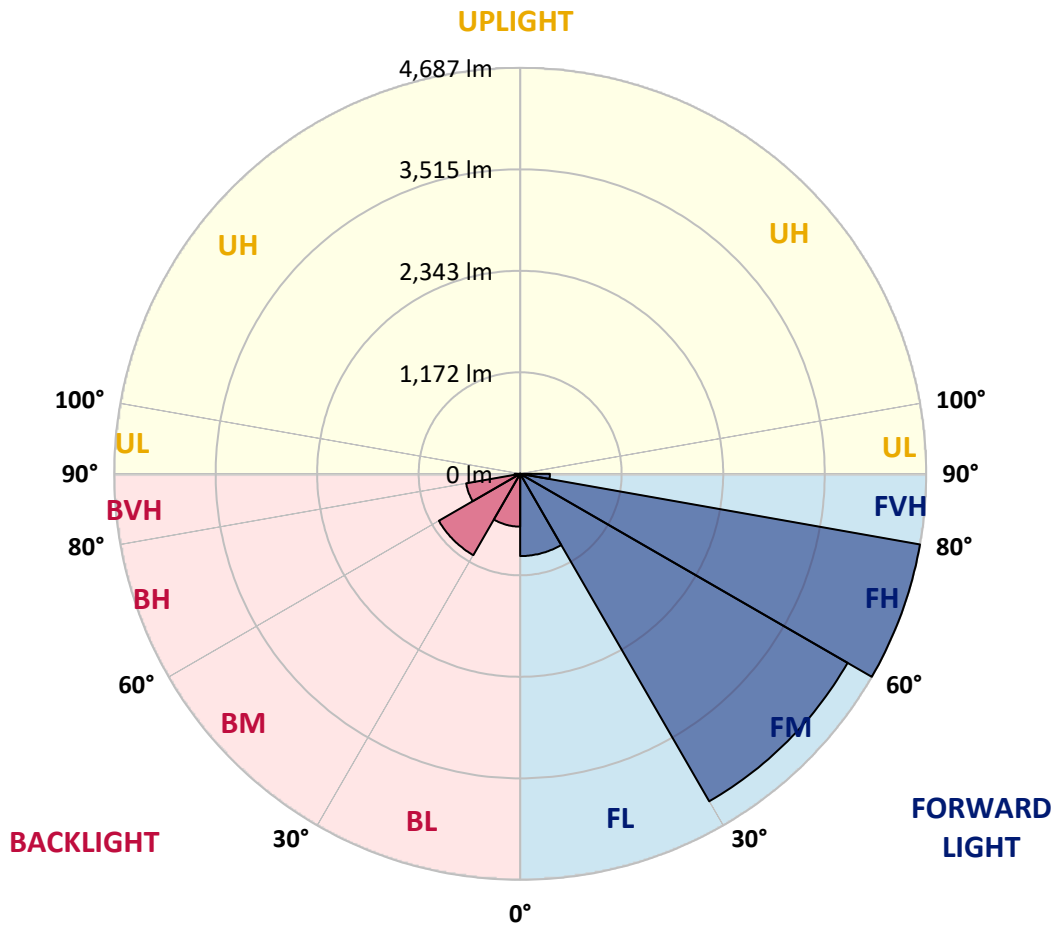
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	949.3	7.5			
FM (30°-60°)	4365.1	34.3			
FH (60°-80°)	4686.5	36.8			G2/5000
FVH (80°-90°)	343.1	2.7			G3/500
BL (0°-30°)	609.4	4.8	B2/1000		
BM (30°-60°)	1083.9	8.5	B2/2500		
BH (60°-80°)	632.7	5.0	B2/1000		G2/1000
BVH (80°-90°)	62.0	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°	2336.9	2336.9	2336.9	2336.9	2336.9	2336.9	2336.9	2336.9	2336.9	2336.9
2.5°	2356.8	2348.6	2356.8	2353.4	2352.0	2349.3	2349.9	2354.7	2352.0	2355.4
5°	2341.0	2336.2	2344.5	2342.4	2351.3	2352.7	2361.6	2367.1	2370.5	2371.2
7.5°	2315.0	2310.2	2321.9	2331.5	2350.6	2356.1	2374.6	2383.5	2388.3	2396.5
10°	2219.8	2217.8	2246.5	2282.8	2328.0	2356.1	2384.2	2399.3	2406.8	2428.7
12.5°	2051.3	2054.1	2091.7	2161.6	2252.0	2342.4	2395.1	2417.1	2428.7	2456.1
15°	1890.4	1889.7	1930.8	2005.4	2132.1	2282.1	2400.6	2438.3	2458.2	2498.6
17.5°	1797.2	1794.5	1823.2	1880.1	1997.9	2189.7	2386.9	2449.9	2492.4	2543.1
20°	1780.1	1774.6	1789.7	1817.8	1901.3	2088.3	2351.3	2449.9	2519.8	2585.6
22.5°	1842.4	1833.5	1827.4	1823.9	1860.9	2004.7	2310.9	2441.7	2560.2	2646.5
25°	1967.8	1954.1	1922.6	1891.7	1880.8	1967.1	2275.3	2439.7	2620.5	2728.7
27.5°	2170.5	2153.4	2089.7	2015.7	1949.3	1986.3	2259.5	2452.0	2686.9	2815.7
30°	2421.9	2403.4	2323.2	2209.5	2090.4	2057.5	2279.4	2488.3	2771.9	2931.4
32.5°	2647.2	2626.6	2558.2	2442.4	2281.5	2180.8	2342.4	2557.5	2905.4	3092.4
35°	2847.2	2823.2	2761.6	2654.7	2515.7	2354.1	2456.1	2680.1	3095.1	3354.0
37.5°	3043.1	3015.0	2947.9	2834.9	2737.6	2584.9	2613.0	2837.6	3347.2	3671.8
40°	3262.3	3221.8	3140.3	3028.7	2934.2	2855.4	2819.1	3030.7	3603.3	4026.6
42.5°	3474.6	3436.2	3339.0	3243.8	3125.3	3102.7	3058.1	3256.8	3883.5	4416.3
45°	3703.3	3657.4	3539.6	3419.1	3344.4	3267.0	3289.6	3482.8	4158.1	4813.6
47.5°	3917.7	3866.3	3727.3	3593.1	3552.0	3405.4	3502.0	3731.4	4443.7	5216.3
50°	4033.5	3982.8	3867.0	3745.8	3713.6	3575.9	3732.1	4004.7	4743.0	5617.7
52.5°	4130.0	4075.2	3923.9	3856.8	3847.2	3761.6	4015.7	4317.0	5042.3	5972.5
55°	4232.8	4171.8	3978.7	3918.4	3962.2	3969.8	4352.0	4671.1	5358.8	6318.3
57.5°	4351.3	4273.9	4031.4	3970.5	4074.6	4213.6	4738.2	5038.2	5669.7	6638.9
60°	4462.9	4384.8	4132.8	4053.3	4195.8	4496.5	5181.4	5482.7	6021.8	6924.5
62.5°	4484.8	4420.4	4213.6	4212.9	4360.2	4826.6	5706.0	5931.4	6329.3	7206.7
65°	4105.4	4065.0	3942.4	4206.7	4595.8	5301.9	6290.3	6505.3	6720.4	7453.2
67.5°	3124.6	3130.1	3121.2	3631.4	4405.4	5984.8	7136.1	7119.7	7203.3	7730.0
70°	1428.7	1460.9	1670.5	2506.8	3529.4	6063.6	8534.7	8321.7	7809.4	8088.2
72.5°	771.9	796.6	882.2	1214.4	2121.9	5391.0	9579.9	9731.3	8615.5	8329.3
75°	566.4	580.1	639.7	771.9	891.1	4006.8	9205.3	9982.0	8716.2	7766.9
77.5°	424.0	430.1	478.8	611.6	456.2	2112.3	7355.3	8266.9	7461.5	6381.4
80°	307.5	314.4	350.7	458.9	319.9	772.6	5050.6	5802.6	5110.2	4067.7
82.5°	212.3	215.1	230.8	312.3	223.3	300.0	2865.7	3402.7	2852.7	1427.4
85°	128.1	131.5	138.4	182.2	126.7	142.5	1237.0	1279.4	852.7	341.1
87.5°	52.7	56.2	61.6	76.7	50.0	39.7	204.1	256.2	159.6	100.0
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°
2336.9	0°	2336.9	2336.9	2336.9	2336.9	2336.9	2336.9	2336.9	2336.9	2336.9	2336.9
2343.8	2.5°	2340.4	2335.6	2322.5	2304.7	2288.3	2267.8	2258.8	2251.3	2244.5	2231.5
2362.3	5°	2354.7	2341.7	2306.8	2261.6	2210.2	2154.1	2099.3	2061.6	2029.4	2005.4
2383.5	7.5°	2376.7	2352.0	2288.3	2195.8	2078.0	1957.5	1848.6	1771.2	1713.0	1691.7
2413.6	10°	2399.3	2369.8	2258.8	2095.8	1892.4	1706.8	1562.3	1482.8	1436.3	1421.2
2449.3	12.5°	2426.0	2382.8	2213.0	1956.8	1684.9	1481.5	1355.4	1308.9	1284.9	1276.7
2493.1	15°	2465.0	2393.8	2143.8	1782.8	1487.0	1317.1	1235.6	1203.4	1191.1	1190.4
2538.3	17.5°	2494.5	2395.8	2036.3	1596.5	1334.9	1217.8	1150.7	1138.3	1146.5	1158.9
2582.8	20°	2527.3	2377.3	1895.2	1426.7	1228.1	1130.8	1102.7	1110.9	1130.8	1148.6
2641.7	22.5°	2550.6	2343.8	1724.6	1294.5	1135.6	1080.8	1079.4	1096.5	1107.5	1116.4
2710.9	25°	2571.2	2286.9	1543.8	1183.5	1059.6	1050.7	1065.7	1060.2	1052.7	1060.2
2780.1	27.5°	2586.2	2197.2	1382.2	1086.3	1006.1	1030.1	1021.2	1008.9	1008.2	1012.3
2861.6	30°	2581.4	2077.3	1249.3	993.8	968.5	991.8	970.5	968.5	966.4	968.5
2984.2	32.5°	2581.4	1941.0	1147.2	930.1	944.5	935.6	933.5	928.7	920.5	919.8
3150.6	35°	2595.8	1804.8	1059.6	895.9	924.6	903.4	904.8	893.1	876.0	867.8
3371.2	37.5°	2625.3	1695.2	972.6	879.4	889.7	889.0	883.5	863.7	833.5	807.5
3646.5	40°	2696.5	1663.0	913.0	871.9	873.3	881.5	867.1	828.7	760.3	717.8
3925.9	42.5°	2808.2	1717.1	900.0	853.4	862.3	870.5	842.4	753.4	704.8	679.4
4219.1	45°	2949.9	1811.6	928.1	826.7	836.3	850.7	767.1	724.6	702.7	703.4
4509.5	47.5°	3129.4	1910.9	980.1	803.4	798.6	806.8	717.1	691.1	660.9	668.5
4788.2	50°	3336.9	2011.6	1029.4	771.9	756.8	730.1	684.9	660.3	621.9	604.1
5057.4	52.5°	3561.6	2108.9	1049.3	733.5	711.6	680.8	663.0	632.9	586.3	556.8
5311.5	55°	3774.6	2197.2	1027.4	687.7	666.4	642.5	639.7	621.2	571.2	530.1
5537.5	57.5°	3975.9	2271.2	972.6	641.1	620.5	606.1	624.6	615.7	552.7	500.0
5751.2	60°	4146.5	2321.9	893.1	593.8	579.4	571.9	600.0	597.2	526.7	467.8
5943.0	62.5°	4282.1	2341.7	805.5	548.6	545.2	531.5	565.7	565.7	493.8	436.3
6111.5	65°	4388.3	2322.5	716.4	504.1	510.9	490.4	524.0	519.9	458.9	408.2
6305.3	67.5°	4482.1	2259.5	617.8	460.3	476.0	450.0	480.1	470.5	420.5	380.1
6473.1	70°	4523.9	2113.0	505.5	416.4	435.6	410.3	436.3	418.5	377.4	350.0
6288.9	72.5°	4188.3	1756.1	397.9	370.5	387.0	366.4	389.0	368.5	330.8	318.5
5430.7	75°	3465.0	1317.8	306.2	320.5	332.9	317.1	332.2	317.1	282.9	291.8
4011.5	77.5°	2516.4	889.7	234.2	267.8	273.3	265.1	278.1	261.0	230.1	228.1
1999.3	80°	1251.3	521.2	183.6	211.6	209.6	204.1	219.2	211.0	184.9	195.9
539.7	82.5°	362.3	223.3	133.6	148.6	144.5	145.9	156.8	161.0	241.1	239.0
167.8	85°	113.7	87.7	80.1	82.9	78.8	80.8	92.5	183.6	169.9	99.3
52.1	87.5°	29.5	30.1	19.9	21.2	21.9	26.0	29.5	111.6	53.4	34.9
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>
2336.9
2225.3
1985.6
1654.8
1397.9
1278.7
1193.1
1163.7
1154.8
1121.2
1065.0
1019.2
976.0
928.7
876.0
816.4
723.3
679.4
706.8
687.7
608.9
556.2
530.1
497.2
465.7
434.2
405.5
377.4
344.5
308.2
266.4
217.8
193.8
244.5
107.5
37.0
0.0

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