

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: P947673

Luminaire Tested: **GALN-SB2D-950-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947673
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-SB2D-950-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13836 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

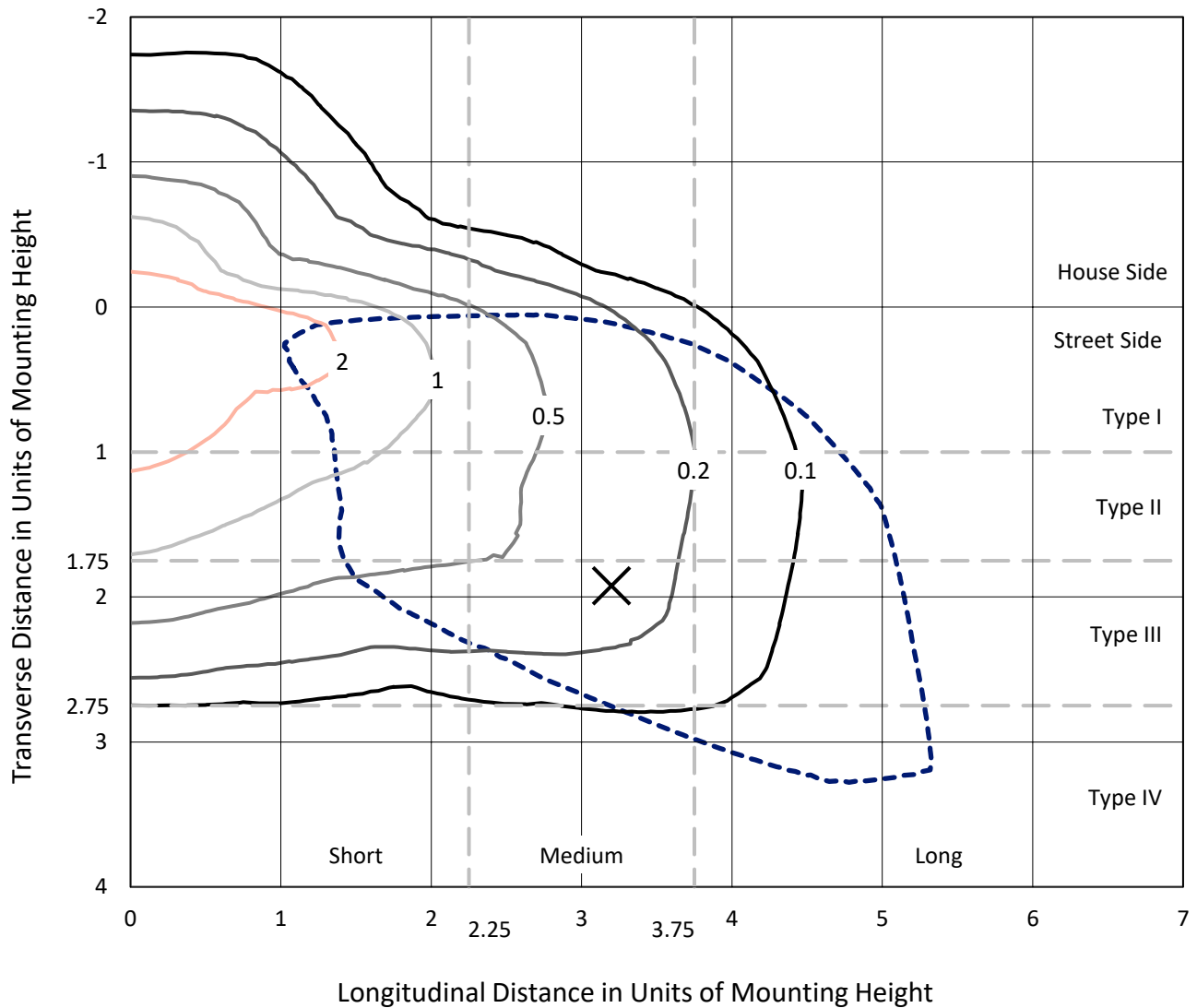
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

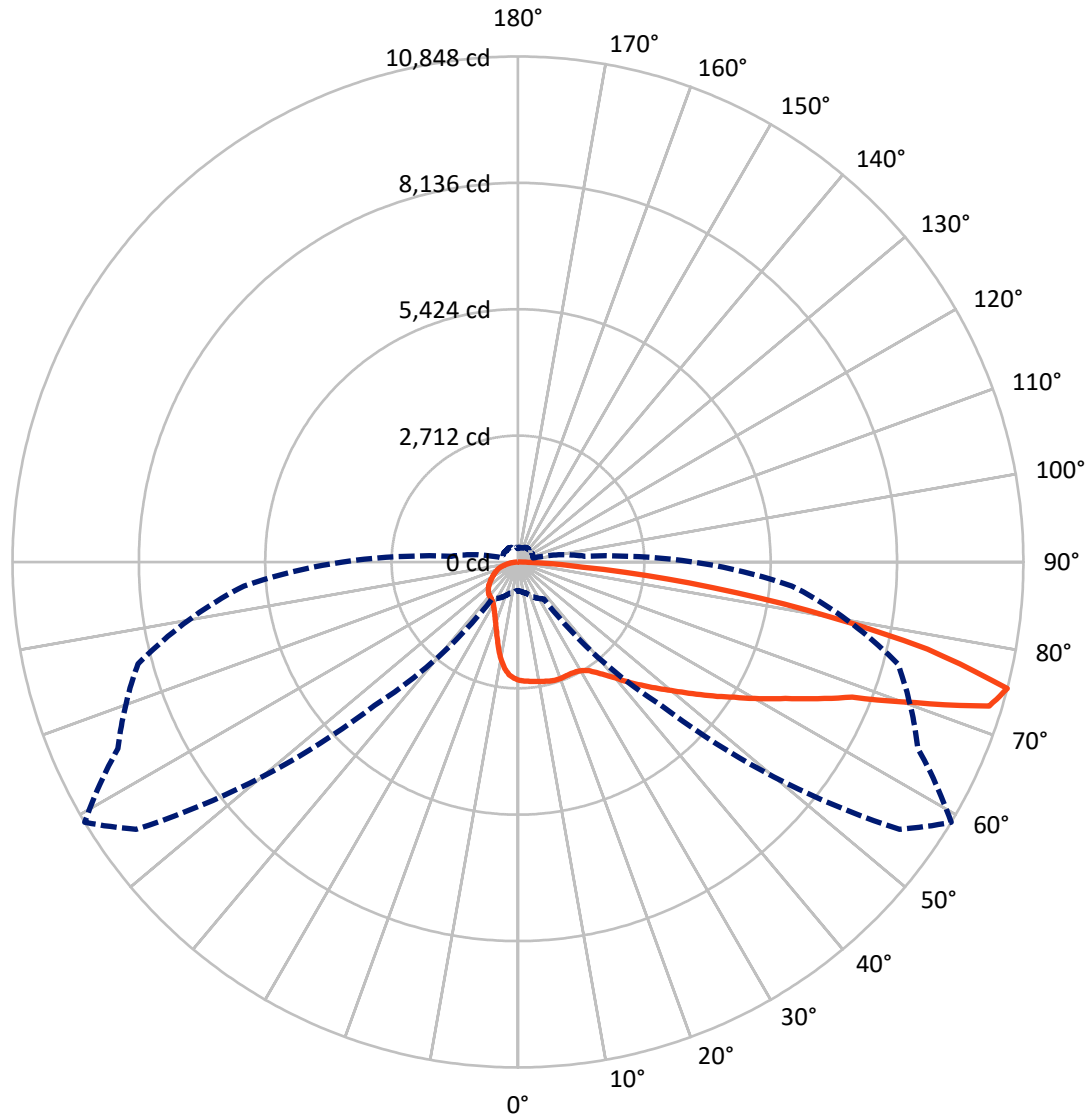
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	2595.0	0.0	2595.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	11241.0	0.0	11241.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	13836.0	0.0	13836.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.7	1.6
10°-20°	582.0	4.2
20°-30°	884.1	6.4
30°-40°	1314.2	9.5
40°-50°	1954.4	14.1
50°-60°	2652.9	19.2
60°-70°	3238.7	23.4
70°-80°	2541.7	18.4
80°-90°	440.3	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°	13836.0	100.0
0°-180°	13836.0	100.0

Coefficient of Utilization



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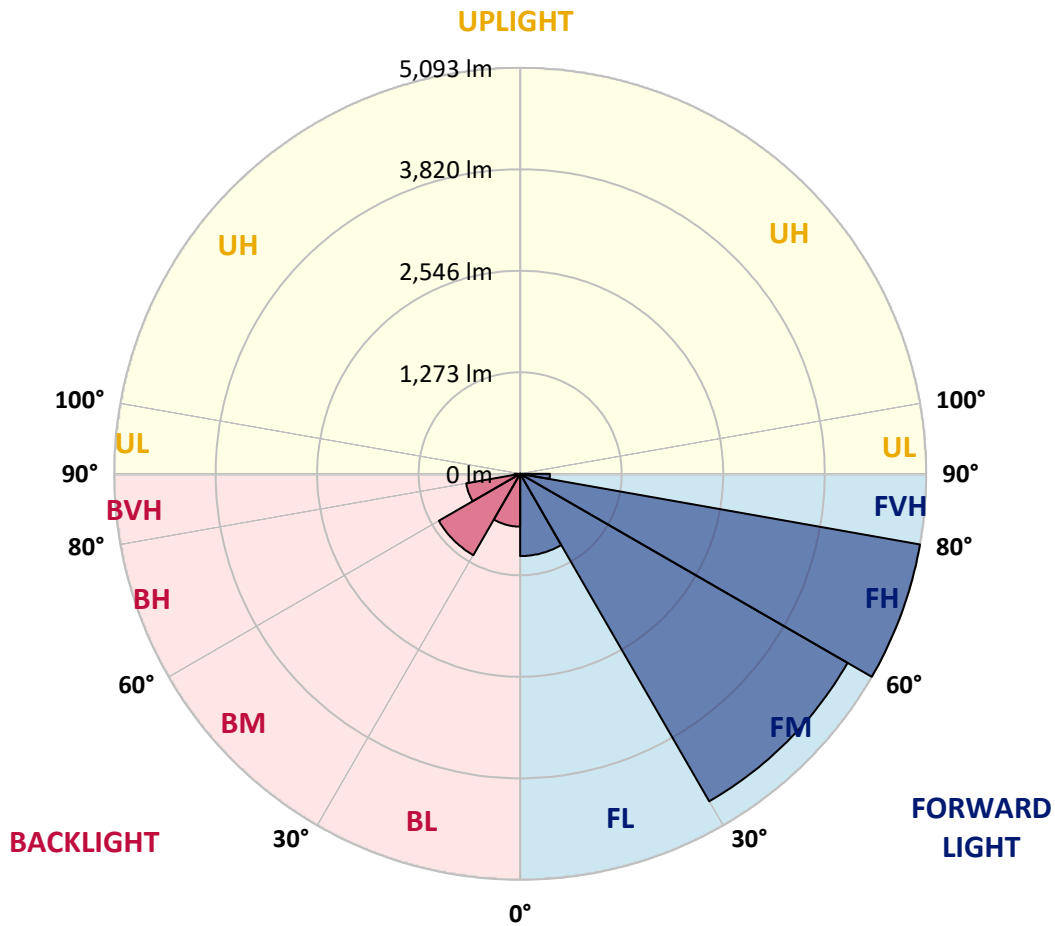
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1031.6	7.5			
FM (30°-60°)	4743.6	34.3			
FH (60°-80°)	5092.9	36.8			G3/7500
FVH (80°-90°)	372.9	2.7			G3/500
BL (0°-30°)	662.2	4.8	B2/1000		
BM (30°-60°)	1177.9	8.5	B2/2500		
BH (60°-80°)	687.5	5.0	B2/1000		G2/1000
BVH (80°-90°)	67.4	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°	2539.6	2539.6	2539.6	2539.6	2539.6	2539.6	2539.6	2539.6	2539.6	2539.6
2.5°	2561.2	2552.2	2561.2	2557.4	2555.9	2553.0	2553.7	2558.9	2555.9	2559.7
5°	2544.0	2538.8	2547.8	2545.5	2555.2	2556.7	2566.4	2572.3	2576.0	2576.8
7.5°	2515.7	2510.5	2523.2	2533.6	2554.5	2560.4	2580.5	2590.2	2595.4	2604.3
10°	2412.3	2410.1	2441.3	2480.8	2529.9	2560.4	2590.9	2607.3	2615.5	2639.3
12.5°	2229.2	2232.2	2273.1	2349.0	2447.3	2545.5	2602.8	2626.7	2639.3	2669.1
15°	2054.3	2053.5	2098.2	2179.3	2317.0	2480.0	2608.8	2649.7	2671.3	2715.2
17.5°	1953.1	1950.1	1981.3	2043.1	2171.1	2379.5	2593.9	2662.4	2708.5	2763.6
20°	1934.4	1928.5	1944.9	1975.4	2066.2	2269.4	2555.2	2662.4	2738.3	2809.7
22.5°	2002.2	1992.5	1985.8	1982.1	2022.3	2178.6	2511.3	2653.4	2782.2	2876.0
25°	2138.4	2123.5	2089.3	2055.8	2043.9	2137.6	2472.6	2651.2	2847.7	2965.3
27.5°	2358.7	2340.1	2270.9	2190.5	2118.3	2158.5	2455.5	2664.6	2919.9	3059.8
30°	2631.9	2611.8	2524.7	2401.1	2271.6	2235.9	2477.0	2704.1	3012.2	3185.6
32.5°	2876.7	2854.4	2780.0	2654.2	2479.3	2369.9	2545.5	2779.2	3157.3	3360.5
35°	3094.1	3068.0	3001.0	2884.9	2733.8	2558.2	2669.1	2912.5	3363.5	3644.9
37.5°	3306.9	3276.4	3203.5	3080.7	2975.0	2809.0	2839.5	3083.7	3637.4	3990.2
40°	3545.1	3501.2	3412.6	3291.3	3188.6	3103.0	3063.6	3293.5	3915.8	4375.8
42.5°	3775.9	3734.2	3628.5	3525.0	3396.3	3371.7	3323.3	3539.2	4220.2	4799.3
45°	4024.5	3974.6	3846.6	3715.6	3634.4	3550.3	3574.9	3784.8	4518.7	5231.0
47.5°	4257.4	4201.6	4050.5	3904.6	3860.0	3700.7	3805.6	4055.0	4829.0	5668.6
50°	4383.2	4328.1	4202.3	4070.6	4035.6	3886.0	4055.7	4351.9	5154.3	6104.8
52.5°	4488.2	4428.6	4264.1	4191.2	4180.8	4087.7	4363.9	4691.4	5479.6	6490.3
55°	4599.8	4533.6	4323.7	4258.2	4305.8	4314.0	4729.3	5076.2	5823.4	6866.2
57.5°	4728.6	4644.5	4381.0	4314.7	4427.9	4579.0	5149.1	5475.1	6161.4	7214.5
60°	4849.9	4765.0	4491.1	4404.8	4559.6	4886.4	5630.7	5958.2	6543.9	7524.9
62.5°	4873.7	4803.7	4579.0	4578.2	4738.2	5245.1	6200.8	6445.7	6878.1	7831.6
65°	4461.4	4417.4	4284.2	4571.5	4994.3	5761.7	6835.7	7069.4	7303.1	8099.5
67.5°	3395.5	3401.5	3391.8	3946.3	4787.4	6503.7	7754.9	7737.0	7827.9	8400.2
70°	1552.6	1587.6	1815.4	2724.2	3835.4	6589.3	9274.8	9043.3	8486.6	8789.5
72.5°	838.8	865.6	958.7	1319.7	2305.9	5858.4	10410.6	10575.1	9362.6	9051.5
75°	615.5	630.4	695.2	838.8	968.3	4354.2	10003.5	10847.5	9472.0	8440.4
77.5°	460.7	467.4	520.3	664.7	495.7	2295.4	7993.1	8983.8	8108.5	6934.7
80°	334.2	341.6	381.1	498.7	347.6	839.6	5488.5	6305.7	5553.3	4420.4
82.5°	230.7	233.7	250.8	339.4	242.6	326.0	3114.2	3697.7	3100.0	1551.1
85°	139.2	142.9	150.3	198.0	137.7	154.8	1344.2	1390.4	926.7	370.7
87.5°	57.3	61.0	67.0	83.4	54.3	43.2	221.8	278.4	173.4	108.7
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°
2539.6	0°	2539.6	2539.6	2539.6	2539.6	2539.6	2539.6	2539.6	2539.6	2539.6	2539.6
2547.0	2.5°	2543.3	2538.1	2523.9	2504.6	2486.7	2464.4	2454.7	2446.5	2439.1	2424.9
2567.1	5°	2558.9	2544.8	2506.8	2457.7	2401.9	2340.8	2281.3	2240.4	2205.4	2179.3
2590.2	7.5°	2582.7	2555.9	2486.7	2386.2	2258.2	2127.2	2008.9	1924.8	1861.5	1838.4
2622.9	10°	2607.3	2575.3	2454.7	2277.6	2056.5	1854.8	1697.8	1611.4	1560.8	1544.4
2661.6	12.5°	2636.3	2589.4	2404.8	2126.5	1831.0	1609.9	1473.0	1422.4	1396.3	1387.4
2709.3	15°	2678.8	2601.3	2329.7	1937.4	1615.9	1431.3	1342.7	1307.7	1294.3	1293.6
2758.4	17.5°	2710.8	2603.6	2212.8	1735.0	1450.6	1323.4	1250.4	1237.0	1246.0	1259.4
2806.8	20°	2746.5	2583.5	2059.5	1550.4	1334.5	1228.8	1198.3	1207.3	1228.8	1248.2
2870.8	22.5°	2771.8	2547.0	1874.2	1406.7	1234.1	1174.5	1173.0	1191.6	1203.5	1213.2
2946.0	25°	2794.1	2485.2	1677.7	1286.2	1151.4	1141.8	1158.1	1152.2	1144.0	1152.2
3021.1	27.5°	2810.5	2387.7	1502.0	1180.5	1093.4	1119.4	1109.8	1096.4	1095.6	1100.1
3109.7	30°	2805.3	2257.5	1357.6	1080.0	1052.4	1077.8	1054.7	1052.4	1050.2	1052.4
3242.9	32.5°	2805.3	2109.4	1246.7	1010.8	1026.4	1016.7	1014.5	1009.3	1000.3	999.6
3423.8	35°	2820.9	1961.2	1151.4	973.6	1004.8	981.7	983.2	970.6	952.0	943.0
3663.5	37.5°	2852.9	1842.2	1056.9	955.7	966.9	966.1	960.2	938.6	905.8	877.5
3962.7	40°	2930.3	1807.2	992.2	947.5	949.0	957.9	942.3	900.6	826.2	780.0
4266.4	42.5°	3051.6	1866.0	978.0	927.4	937.1	946.0	915.5	818.7	765.9	738.4
4584.9	45°	3205.7	1968.7	1008.5	898.4	908.8	924.4	833.6	787.5	763.7	764.4
4900.5	47.5°	3400.7	2076.6	1065.1	873.1	867.9	876.8	779.3	751.0	718.3	726.4
5203.4	50°	3626.3	2186.0	1118.7	838.8	822.5	793.4	744.3	717.5	675.8	656.5
5495.9	52.5°	3870.4	2291.7	1140.3	797.2	773.3	739.8	720.5	687.7	637.1	605.1
5772.1	55°	4101.9	2387.7	1116.5	747.3	724.2	698.2	695.2	675.1	620.7	576.1
6017.7	57.5°	4320.7	2468.1	1056.9	696.7	674.3	658.7	678.8	669.1	600.7	543.3
6249.9	60°	4506.0	2523.2	970.6	645.3	629.7	621.5	652.0	649.0	572.4	508.4
6458.3	62.5°	4653.4	2544.8	875.3	596.2	592.5	577.6	614.8	614.8	536.6	474.1
6641.4	65°	4768.8	2523.9	778.5	547.8	555.3	532.9	569.4	564.9	498.7	443.6
6852.1	67.5°	4870.7	2455.5	671.4	500.2	517.3	489.0	521.8	511.3	457.0	413.1
7034.4	70°	4916.1	2296.2	549.3	452.5	473.4	445.8	474.1	454.8	410.1	380.3
6834.2	72.5°	4551.4	1908.4	432.4	402.7	420.5	398.2	422.8	400.4	359.5	346.1
5901.6	75°	3765.4	1432.0	332.7	348.3	361.7	344.6	361.0	344.6	307.4	317.1
4359.4	77.5°	2734.6	966.9	254.6	291.0	297.0	288.0	302.2	283.6	250.1	247.9
2172.6	80°	1359.8	566.4	199.5	230.0	227.8	221.8	238.2	229.2	201.0	212.9
586.5	82.5°	393.7	242.6	145.1	161.5	157.0	158.5	170.4	174.9	262.0	259.8
182.4	85°	123.6	95.3	87.1	90.1	85.6	87.8	100.5	199.5	184.6	107.9
56.6	87.5°	32.0	32.7	21.6	23.1	23.8	28.3	32.0	121.3	58.1	38.0
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>
2539.6
2418.2
2157.7
1798.2
1519.1
1389.6
1296.6
1264.6
1254.9
1218.4
1157.4
1107.5
1060.6
1009.3
952.0
887.2
786.0
738.4
768.1
747.3
661.7
604.4
576.1
540.4
506.1
471.9
440.6
410.1
374.4
334.9
289.5
236.7
210.6
265.7
116.9
40.2
0.0

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