

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: P949380

Luminaire Tested: **GALN-SB4A-927-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-927-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11146 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

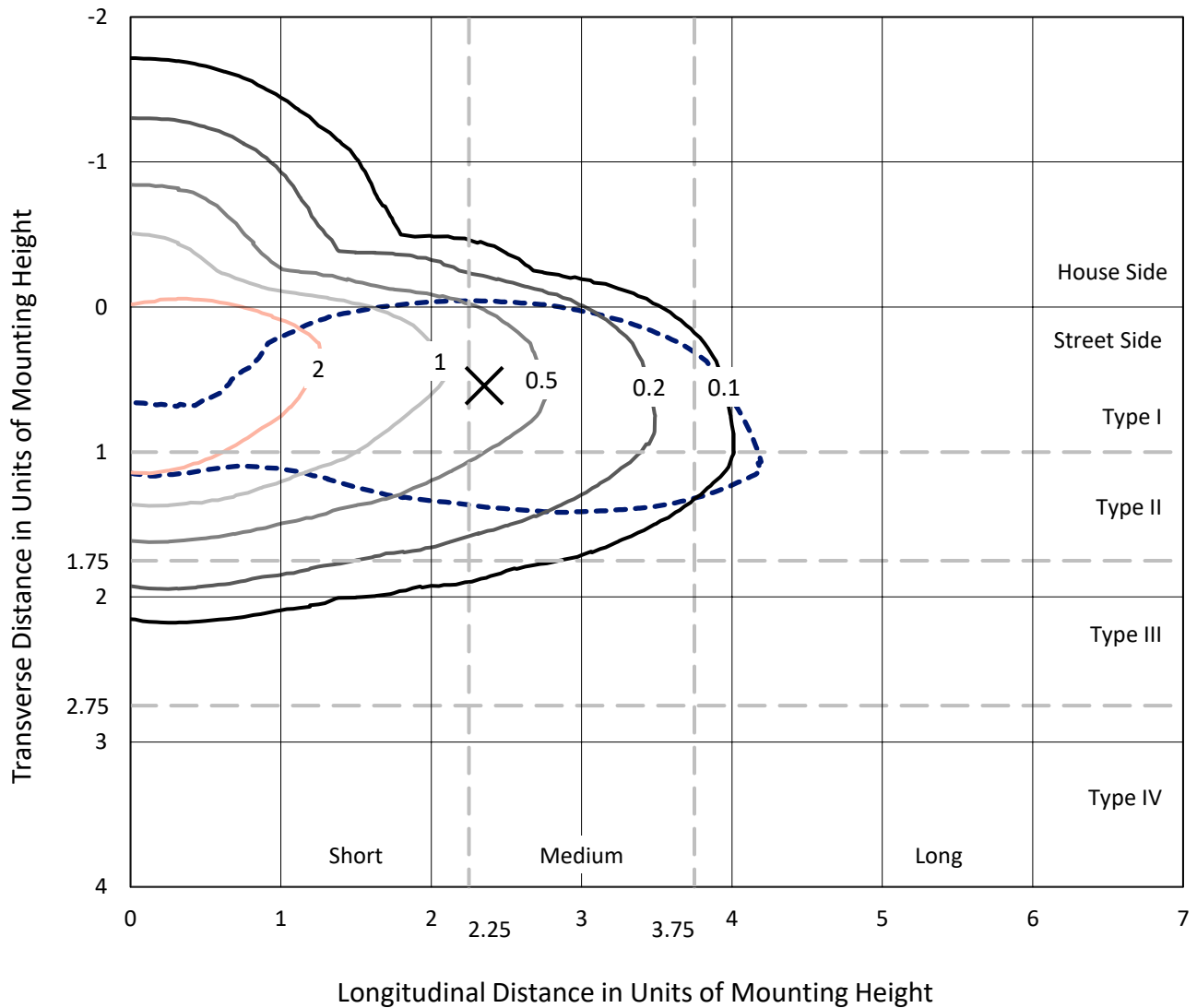
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

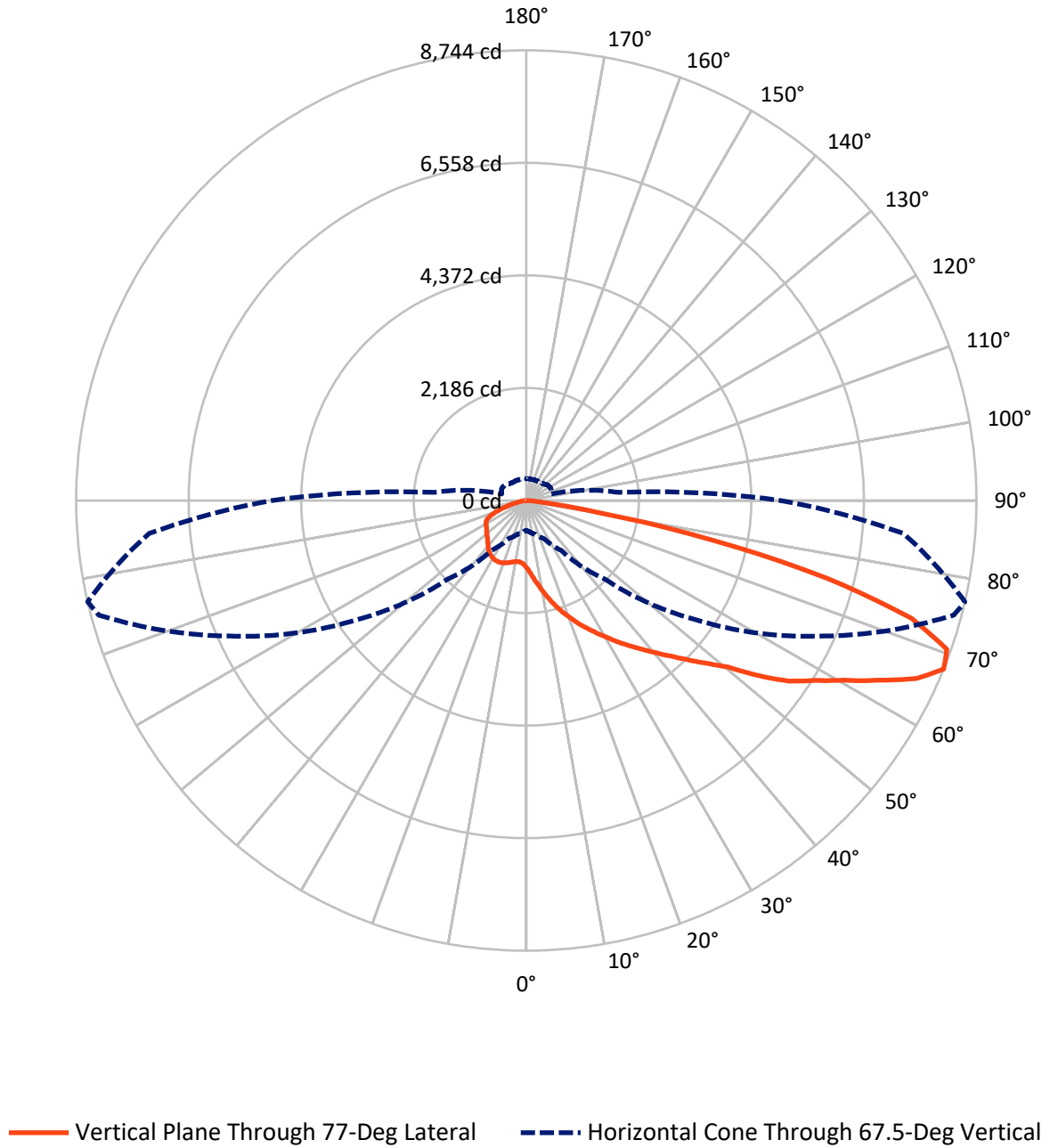
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2108.4	0.0	2108.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	9037.6	0.0	9037.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	11146.0	0.0	11146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.2	1.3
10°-20°	503.6	4.5
20°-30°	950.8	8.5
30°-40°	1531.8	13.7
40°-50°	2095.2	18.8
50°-60°	2363.4	21.2
60°-70°	2205.9	19.8
70°-80°	1209.2	10.8
80°-90°	145.9	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°	11146.0	100.0
0°-180°	11146.0	100.0

Coefficient of Utilization



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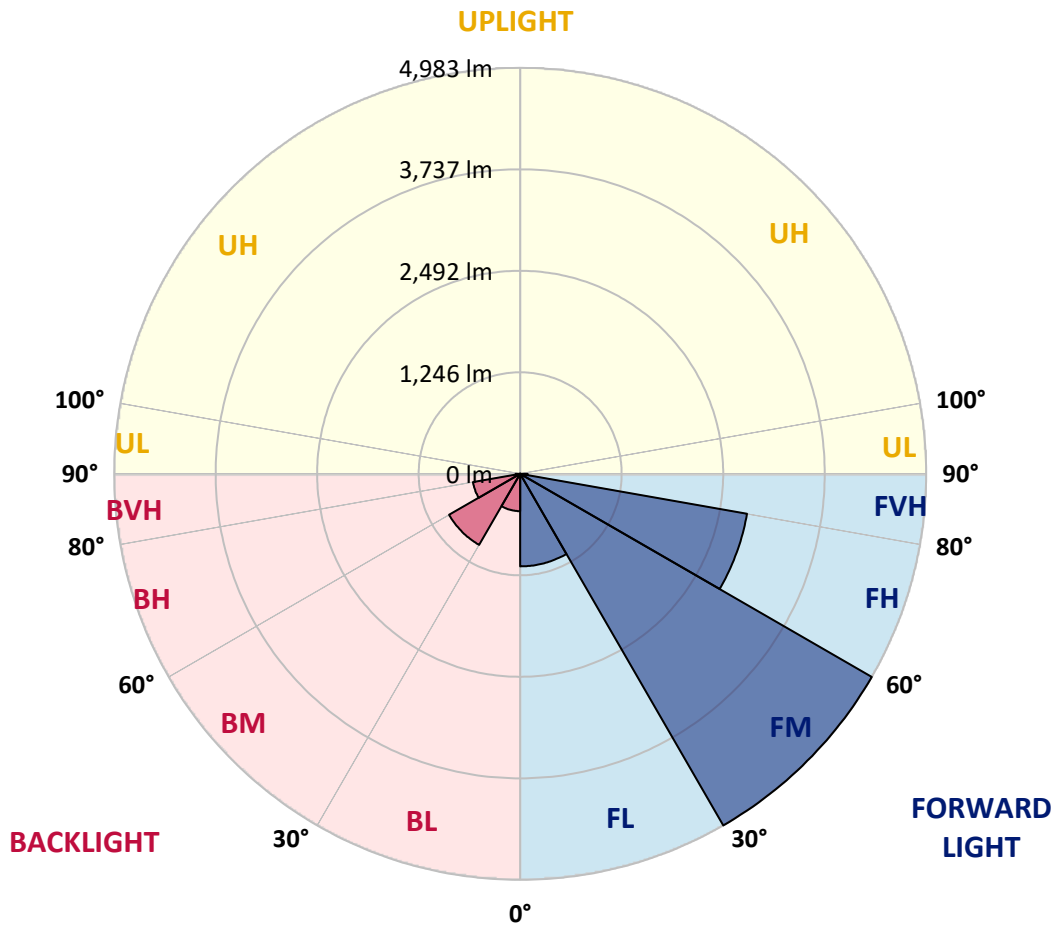
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1136.2	10.2			
FM (30°-60°)	4983.3	44.7			
FH (60°-80°)	2827.0	25.4			G2/5000
FVH (80°-90°)	91.2	0.8			G1/100
BL (0°-30°)	458.4	4.1	B1/500		
BM (30°-60°)	1007.1	9.0	B2/2500		
BH (60°-80°)	588.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	54.6	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8
2.5°	1637.4	1649.0	1634.6	1634.6	1586.2	1560.9	1512.6	1475.8	1409.6	1398.1
5°	1935.5	1949.9	1929.7	1921.1	1864.1	1811.8	1730.7	1650.7	1532.7	1520.7
7.5°	2166.2	2184.6	2166.8	2157.6	2106.9	2048.2	1953.3	1841.7	1675.4	1651.8
10°	2354.3	2357.2	2351.5	2354.9	2315.2	2266.9	2169.6	2039.6	1831.9	1799.7
12.5°	2460.8	2474.0	2485.5	2506.2	2499.3	2469.4	2382.0	2226.6	1997.6	1956.2
15°	2510.8	2533.8	2559.7	2607.5	2646.0	2653.5	2586.8	2427.4	2166.2	2116.1
17.5°	2528.7	2550.5	2591.4	2660.4	2743.3	2799.1	2769.2	2622.4	2333.0	2275.5
20°	2619.0	2625.3	2650.1	2715.7	2805.4	2898.0	2920.5	2810.0	2498.2	2433.2
22.5°	2812.3	2799.7	2806.6	2836.5	2900.9	2990.7	3041.9	2975.7	2667.9	2593.1
25°	3131.6	3094.8	3058.0	3023.5	3056.3	3106.9	3165.0	3141.4	2845.7	2750.8
27.5°	3535.0	3490.1	3409.0	3295.6	3255.9	3273.7	3299.6	3295.0	3010.2	2914.2
30°	3931.9	3879.6	3782.9	3619.0	3514.2	3467.1	3447.5	3434.3	3189.2	3086.8
32.5°	4249.0	4207.5	4112.6	3929.1	3777.2	3696.6	3631.6	3584.4	3376.2	3273.7
35°	4526.3	4487.7	4379.0	4178.8	4013.6	3927.9	3842.8	3742.1	3570.6	3467.1
37.5°	4779.4	4740.9	4591.9	4383.6	4217.3	4158.1	4082.1	3911.2	3765.7	3667.9
40°	4939.4	4930.8	4791.5	4555.6	4383.0	4353.7	4328.4	4107.4	3982.0	3891.1
42.5°	4980.2	4999.2	4888.8	4694.9	4530.3	4506.7	4566.0	4329.5	4224.8	4137.9
45°	4881.9	4936.5	4864.0	4732.3	4635.0	4622.4	4776.6	4572.3	4493.5	4414.1
47.5°	4632.7	4725.4	4695.4	4677.0	4663.2	4717.9	4961.8	4830.1	4797.8	4728.8
50°	4129.9	4305.3	4357.7	4473.9	4607.4	4792.1	5130.4	5111.4	5153.4	5083.8
52.5°	3260.5	3502.2	3805.9	4097.1	4436.0	4767.4	5315.7	5515.3	5692.5	5654.5
55°	2691.5	2800.2	3033.8	3567.7	4103.4	4663.2	5399.1	5841.5	6227.6	6193.6
57.5°	2254.2	2351.5	2495.3	2941.2	3600.5	4426.7	5450.9	6040.6	6594.1	6590.6
60°	1785.3	1888.3	2035.6	2351.5	3013.1	4018.2	5439.4	6267.3	7061.9	7090.6
62.5°	1256.0	1369.3	1532.7	1827.3	2413.0	3488.9	5204.6	6431.3	7612.5	7690.7
65°	825.6	900.4	1023.5	1277.9	1798.0	2808.3	4756.4	6452.6	8201.6	8334.0
67.5°	578.8	607.6	680.1	818.1	1185.2	2153.5	4042.4	6232.2	8594.6	8743.6
70°	451.7	466.0	502.9	558.1	744.5	1448.2	3097.7	5659.1	8510.6	8665.9
72.5°	390.1	403.9	417.7	424.6	499.4	894.1	2098.3	4731.7	7719.5	7824.8
75°	353.8	357.3	368.8	366.5	380.9	580.0	1211.1	3447.5	6090.7	6054.4
77.5°	297.5	302.1	321.0	318.2	338.3	396.4	628.9	2224.9	3948.6	3702.4
80°	252.0	254.3	275.0	271.6	294.0	287.1	321.0	1134.0	1674.8	1418.8
82.5°	87.5	108.2	210.0	216.3	224.4	173.8	185.3	462.6	511.5	391.8
85°	42.6	45.5	107.0	151.9	151.3	87.5	90.3	165.1	161.1	126.6
87.5°	6.9	8.6	12.7	59.3	47.2	23.0	31.1	32.2	33.4	28.8
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°
1307.8	0°	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8	1307.8
1354.4	2.5°	1322.2	1293.4	1233.0	1177.2	1133.4	1091.4	1067.9	1047.7	1036.2	1033.9
1417.7	5°	1357.8	1298.6	1188.7	1096.0	1035.6	990.8	967.2	952.2	944.7	940.1
1502.8	7.5°	1409.0	1322.2	1165.7	1060.4	997.1	964.9	952.8	950.5	949.9	950.5
1605.8	10°	1479.8	1360.7	1163.4	1051.7	998.8	981.0	980.4	981.0	983.3	983.8
1718.0	12.5°	1556.3	1400.4	1172.6	1059.2	1020.7	1010.9	1009.2	1008.6	1010.3	1011.5
1831.3	15°	1639.7	1452.8	1188.1	1075.3	1044.8	1034.5	1032.8	1029.3	1028.7	1028.2
1950.4	17.5°	1725.5	1504.5	1205.4	1092.6	1060.4	1046.0	1039.7	1031.6	1025.3	1023.5
2073.6	20°	1812.4	1555.7	1217.4	1101.2	1061.5	1041.4	1028.7	1014.9	1004.0	997.7
2197.8	22.5°	1905.0	1609.3	1224.9	1098.9	1051.2	1023.5	1000.5	984.4	967.7	956.8
2323.3	25°	1995.3	1655.9	1224.3	1086.8	1031.0	995.9	966.6	945.9	922.9	911.4
2452.7	27.5°	2082.2	1697.9	1210.0	1065.5	1002.3	963.1	928.0	903.3	880.9	869.9
2583.3	30°	2171.9	1733.0	1187.5	1034.5	968.3	925.2	886.6	865.3	845.2	834.8
2721.4	32.5°	2261.1	1765.2	1155.9	995.9	929.2	887.8	849.8	830.2	818.1	818.1
2869.8	35°	2355.5	1787.6	1113.9	951.1	887.8	848.1	818.1	806.6	805.5	798.6
3026.9	37.5°	2455.0	1802.0	1062.7	905.0	846.9	809.5	800.3	786.5	775.0	760.0
3199.5	40°	2559.7	1816.4	1001.1	857.3	803.8	783.1	779.0	760.6	727.8	691.0
3395.1	42.5°	2686.9	1826.2	937.2	809.5	758.3	751.4	757.2	725.5	673.2	645.5
3631.0	45°	2834.2	1842.3	878.6	762.3	711.7	711.7	735.9	694.4	651.3	634.0
3900.3	47.5°	3025.2	1879.7	823.9	710.6	668.6	680.1	688.7	657.1	632.9	611.6
4228.3	50°	3301.4	1969.4	767.5	658.2	635.8	658.8	646.7	628.3	600.1	582.8
4749.5	52.5°	3644.3	2022.4	717.5	611.0	607.6	630.6	613.3	596.1	574.8	551.8
5144.8	55°	3877.9	2032.1	675.5	576.5	588.6	586.3	580.0	564.4	552.9	522.4
5534.9	57.5°	4139.1	2051.7	640.9	555.8	576.5	551.2	548.9	535.7	520.7	500.0
6010.7	60°	4451.5	2082.2	611.0	547.7	566.1	528.2	516.7	511.5	496.5	486.2
6583.2	62.5°	4792.1	2109.8	580.5	548.9	554.1	505.7	488.5	486.7	477.5	474.1
7120.5	65°	5024.5	2034.4	542.6	547.7	535.1	482.7	460.9	460.3	452.8	451.7
7353.6	67.5°	4943.4	1795.7	491.3	531.6	515.5	459.7	435.5	433.2	423.5	424.0
7110.2	70°	4537.2	1455.1	420.6	491.9	491.3	439.0	409.1	401.6	388.4	390.7
6182.1	72.5°	3775.5	1078.2	325.6	425.8	452.8	420.0	378.6	366.5	349.8	352.1
4563.7	75°	2726.6	733.0	237.0	323.9	394.1	397.6	348.7	327.9	307.8	311.3
2540.2	77.5°	1395.2	415.4	174.3	223.2	309.5	361.3	321.6	294.0	289.4	321.6
732.4	80°	455.1	208.3	120.8	156.5	203.1	295.7	281.9	250.3	249.1	256.6
153.6	82.5°	135.8	88.0	77.7	103.0	112.2	226.7	243.4	189.3	162.8	171.5
51.2	85°	46.6	42.6	44.3	51.2	53.5	132.9	170.3	125.4	118.5	130.6
11.5	87.5°	10.9	15.0	12.7	11.5	11.5	32.2	66.2	52.4	72.5	48.3
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>
1307.8
1033.9
939.5
952.2
984.4
1012.0
1027.6
1025.3
1000.0
957.4
911.4
869.4
834.3
818.7
796.9
757.7
685.8
646.1
636.9
611.0
581.1
547.2
523.0
493.1
489.0
474.1
451.1
424.0
393.0
351.5
312.4
317.0
220.4
177.2
128.9
46.6
0.0

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