

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: P947589

Luminaire Tested: **GALN-SB2D-927-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947589
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-927-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 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: 12106 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

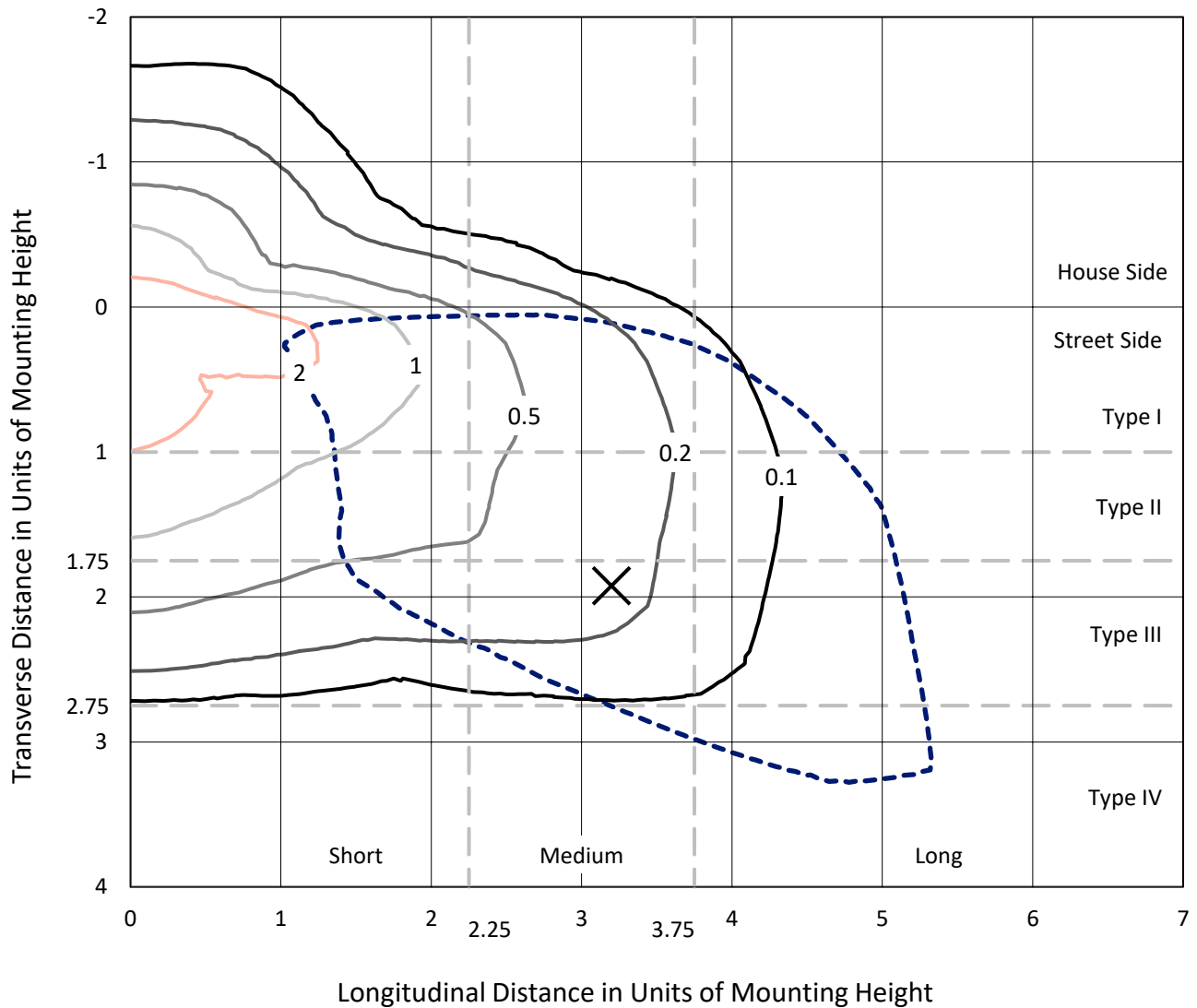
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

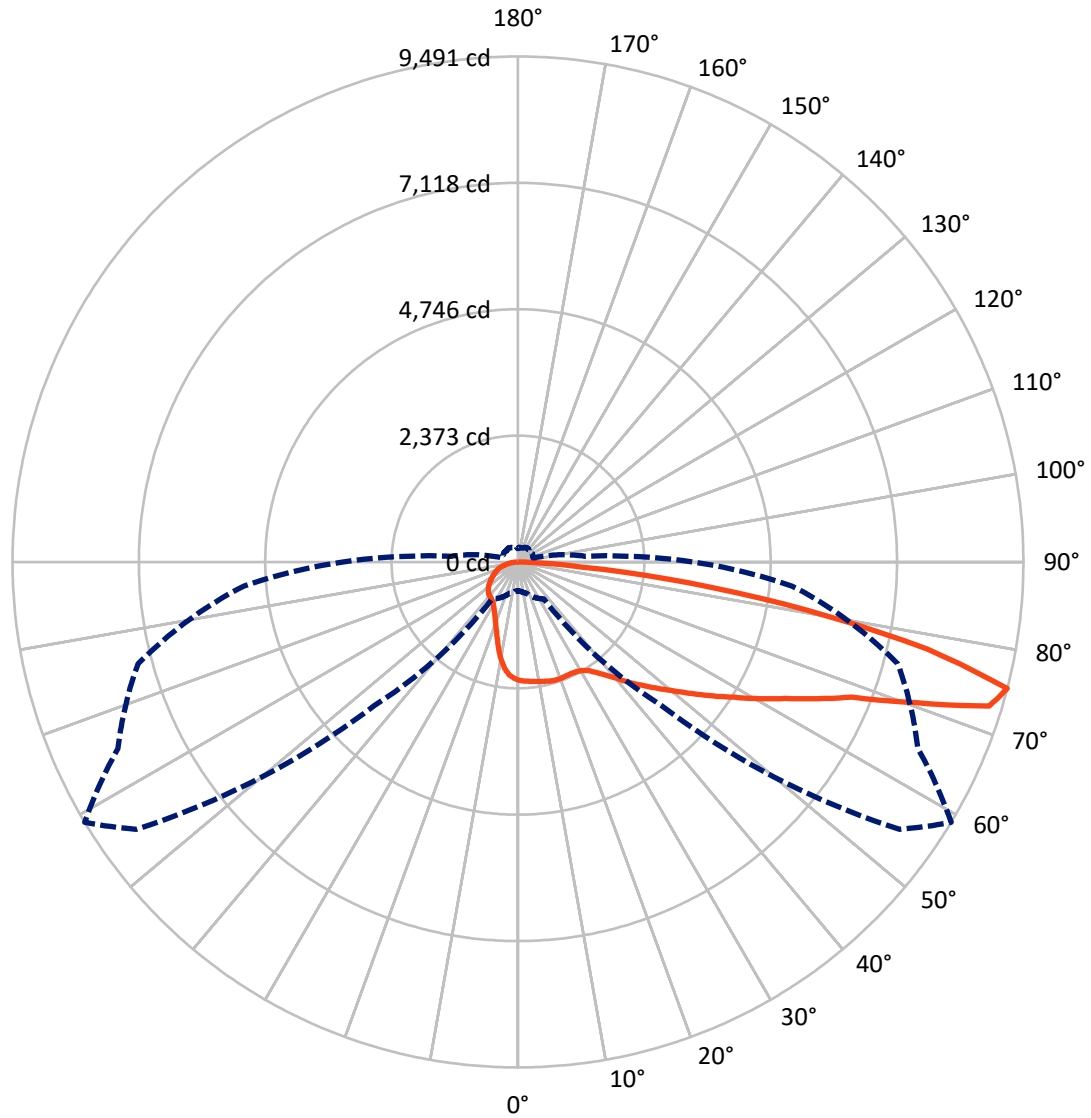
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	2270.6	0.0	2270.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9835.4	0.0	9835.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	12106.0	0.0	12106.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.2	1.6
10°-20°	509.3	4.2
20°-30°	773.5	6.4
30°-40°	1149.9	9.5
40°-50°	1710.0	14.1
50°-60°	2321.2	19.2
60°-70°	2833.8	23.4
70°-80°	2223.9	18.4
80°-90°	385.2	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°	12106.0	100.0
0°-180°	12106.0	100.0



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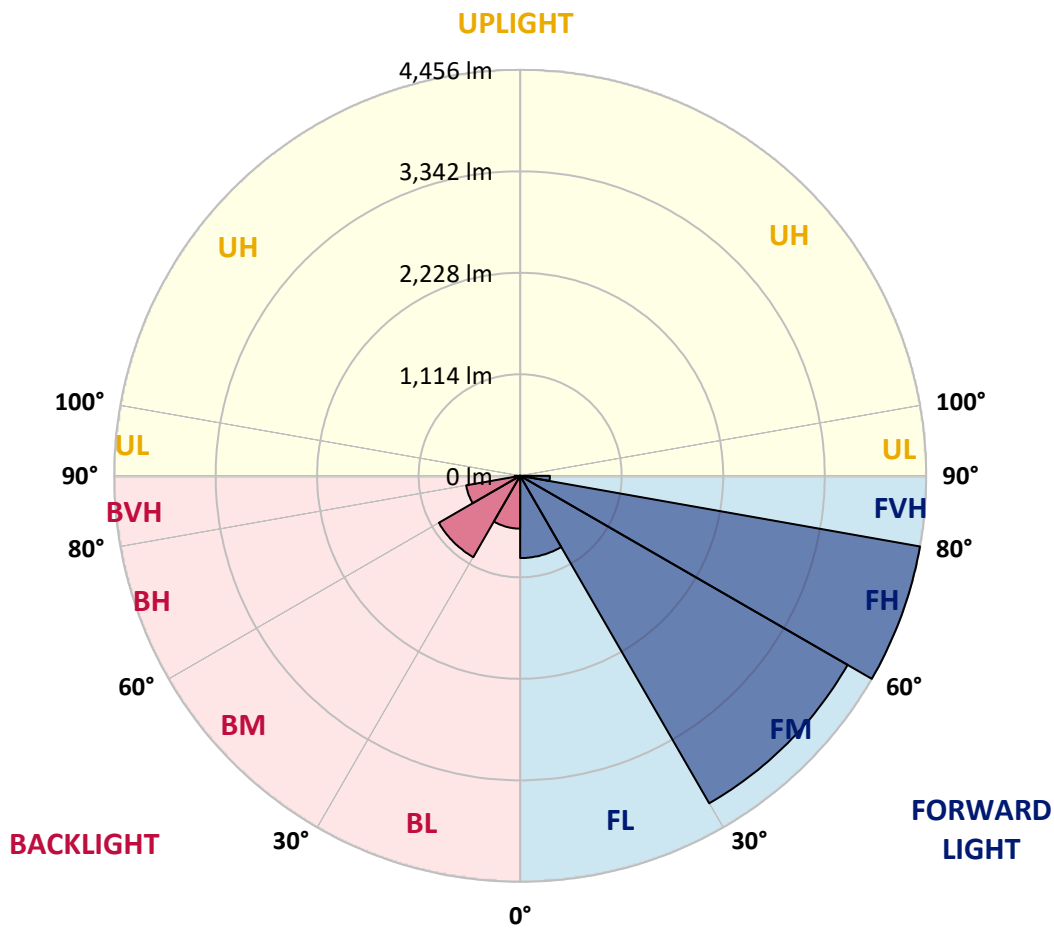
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	902.6	7.5			
FM (30°-60°)	4150.4	34.3			
FH (60°-80°)	4456.1	36.8			G2/5000
FVH (80°-90°)	326.3	2.7			G3/500
BL (0°-30°)	579.4	4.8	B2/1000		
BM (30°-60°)	1030.6	8.5	B2/2500		
BH (60°-80°)	601.6	5.0	B2/1000		G2/1000
BVH (80°-90°)	59.0	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°	2222.0	2222.0	2222.0	2222.0	2222.0	2222.0	2222.0	2222.0	2222.0	2222.0
2.5°	2240.9	2233.1	2240.9	2237.7	2236.4	2233.8	2234.4	2239.0	2236.4	2239.6
5°	2225.9	2221.4	2229.2	2227.2	2235.7	2237.0	2245.5	2250.7	2253.9	2254.6
7.5°	2201.2	2196.6	2207.7	2216.8	2235.1	2240.3	2257.8	2266.3	2270.9	2278.7
10°	2110.7	2108.7	2136.1	2170.6	2213.6	2240.3	2267.0	2281.3	2288.5	2309.3
12.5°	1950.5	1953.1	1988.9	2055.3	2141.3	2227.2	2277.4	2298.2	2309.3	2335.3
15°	1797.4	1796.8	1835.8	1906.8	2027.3	2169.9	2282.6	2318.4	2337.3	2375.7
17.5°	1708.9	1706.2	1733.6	1787.7	1899.7	2082.0	2269.6	2329.5	2369.9	2418.1
20°	1692.6	1687.4	1701.7	1728.4	1807.8	1985.6	2235.7	2329.5	2395.9	2458.4
22.5°	1751.8	1743.4	1737.5	1734.3	1769.4	1906.2	2197.3	2321.7	2434.3	2516.4
25°	1871.0	1858.0	1828.0	1798.7	1788.3	1870.4	2163.4	2319.7	2491.6	2594.5
27.5°	2063.8	2047.5	1986.9	1916.6	1853.4	1888.6	2148.4	2331.4	2554.8	2677.2
30°	2302.8	2285.2	2209.0	2100.9	1987.6	1956.3	2167.3	2366.0	2635.6	2787.3
32.5°	2517.0	2497.5	2432.4	2322.3	2169.3	2073.5	2227.2	2431.7	2762.6	2940.3
35°	2707.2	2684.4	2625.8	2524.2	2392.0	2238.3	2335.3	2548.3	2943.0	3189.1
37.5°	2893.5	2866.8	2802.9	2695.5	2603.0	2457.8	2484.5	2698.1	3182.6	3491.3
40°	3101.9	3063.4	2985.9	2879.8	2789.9	2715.0	2680.5	2881.7	3426.2	3828.6
42.5°	3303.7	3267.3	3174.8	3084.3	2971.6	2950.1	2907.8	3096.6	3692.5	4199.2
45°	3521.3	3477.6	3365.6	3251.0	3180.0	3106.4	3127.9	3311.6	3953.7	4576.9
47.5°	3725.1	3676.2	3544.0	3416.4	3377.3	3238.0	3329.8	3548.0	4225.2	4959.8
50°	3835.1	3787.0	3676.9	3561.6	3531.0	3400.1	3548.6	3807.8	4509.8	5341.5
52.5°	3927.0	3874.9	3731.0	3667.1	3658.0	3576.6	3818.2	4104.8	4794.4	5678.8
55°	4024.7	3966.7	3783.1	3725.7	3767.4	3774.6	4138.0	4441.5	5095.3	6007.7
57.5°	4137.3	4063.7	3833.2	3775.2	3874.2	4006.4	4505.3	4790.5	5391.0	6312.5
60°	4243.5	4169.2	3929.6	3854.0	3989.5	4275.4	4926.6	5213.2	5725.7	6584.0
62.5°	4264.3	4203.1	4006.4	4005.8	4145.8	4589.3	5425.5	5639.7	6018.1	6852.3
65°	3903.5	3865.1	3748.5	3999.9	4369.8	5041.2	5981.0	6185.5	6390.0	7086.8
67.5°	2971.0	2976.2	2967.7	3452.9	4188.8	5690.5	6785.3	6769.6	6849.1	7349.9
70°	1358.5	1389.1	1588.4	2383.5	3355.8	5765.4	8115.1	7912.6	7425.4	7690.5
72.5°	733.9	757.4	838.8	1154.6	2017.5	5125.9	9108.9	9252.8	8191.9	7919.7
75°	538.6	551.6	608.3	733.9	847.3	3809.8	8752.7	9491.2	8287.7	7385.1
77.5°	403.1	409.0	455.2	581.6	433.7	2008.4	6993.7	7860.5	7094.6	6067.6
80°	292.4	298.9	333.4	436.3	304.1	734.6	4802.2	5517.3	4858.9	3867.7
82.5°	201.9	204.5	219.5	297.0	212.3	285.2	2724.8	3235.4	2712.4	1357.2
85°	121.8	125.0	131.6	173.2	120.5	135.5	1176.1	1216.5	810.8	324.3
87.5°	50.1	53.4	58.6	72.9	47.5	37.8	194.1	243.6	151.7	95.1
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°
2222.0	0°	2222.0	2222.0	2222.0	2222.0	2222.0	2222.0	2222.0	2222.0	2222.0	2222.0
2228.5	2.5°	2225.3	2220.7	2208.4	2191.4	2175.8	2156.3	2147.8	2140.6	2134.1	2121.7
2246.1	5°	2239.0	2226.6	2193.4	2150.4	2101.6	2048.1	1996.0	1960.2	1929.6	1906.8
2266.3	7.5°	2259.8	2236.4	2175.8	2087.9	1975.9	1861.2	1757.7	1684.1	1628.8	1608.6
2295.0	10°	2281.3	2253.3	2147.8	1992.8	1799.4	1622.9	1485.5	1409.9	1365.6	1351.3
2328.8	12.5°	2306.7	2265.7	2104.2	1860.6	1602.0	1408.6	1288.8	1244.5	1221.7	1213.9
2370.5	15°	2343.8	2276.1	2038.4	1695.2	1413.8	1252.3	1174.8	1144.2	1132.5	1131.9
2413.5	17.5°	2371.8	2278.0	1936.1	1518.0	1269.3	1157.9	1094.1	1082.4	1090.2	1101.9
2455.8	20°	2403.1	2260.5	1802.0	1356.5	1167.7	1075.2	1048.5	1056.3	1075.2	1092.1
2511.8	22.5°	2425.2	2228.5	1639.8	1230.8	1079.8	1027.7	1026.4	1042.6	1053.1	1061.5
2577.6	25°	2444.8	2174.5	1467.9	1125.3	1007.5	999.0	1013.3	1008.1	1001.0	1008.1
2643.4	27.5°	2459.1	2089.2	1314.2	1032.9	956.7	979.5	971.0	959.3	958.6	962.5
2720.9	30°	2454.5	1975.2	1187.9	944.9	920.9	943.0	922.8	920.9	918.9	920.9
2837.5	32.5°	2454.5	1845.6	1090.8	884.4	898.1	889.6	887.6	883.1	875.3	874.6
2995.7	35°	2468.2	1716.0	1007.5	851.8	879.2	859.0	860.3	849.2	832.9	825.1
3205.4	37.5°	2496.2	1611.8	924.8	836.2	846.0	845.3	840.1	821.2	792.6	767.8
3467.2	40°	2563.9	1581.2	868.1	829.0	830.3	838.1	824.5	788.0	722.9	682.5
3732.9	42.5°	2670.1	1632.7	855.7	811.4	819.9	827.7	801.0	716.4	670.1	646.0
4011.6	45°	2804.9	1722.5	882.4	786.0	795.2	808.8	729.4	689.0	668.2	668.8
4287.8	47.5°	2975.5	1817.0	931.9	763.9	759.3	767.2	681.8	657.1	628.4	635.6
4552.8	50°	3172.8	1912.7	978.8	733.9	719.6	694.2	651.2	627.8	591.3	574.4
4808.8	52.5°	3386.4	2005.2	997.7	697.5	676.6	647.3	630.4	601.7	557.5	529.5
5050.4	55°	3589.0	2089.2	976.9	653.8	633.7	610.9	608.3	590.7	543.1	504.1
5265.3	57.5°	3780.4	2159.5	924.8	609.6	590.0	576.3	593.9	585.5	525.6	475.4
5468.5	60°	3942.6	2207.7	849.2	564.6	550.9	543.8	570.5	567.9	500.8	444.8
5650.8	62.5°	4071.5	2226.6	765.9	521.6	518.4	505.4	537.9	537.9	469.5	414.8
5811.0	65°	4172.5	2208.4	681.2	479.3	485.8	466.3	498.2	494.3	436.3	388.1
5995.3	67.5°	4261.7	2148.4	587.4	437.6	452.6	427.9	456.5	447.4	399.9	361.4
6154.9	70°	4301.4	2009.1	480.6	396.0	414.2	390.1	414.8	397.9	358.8	332.8
5979.7	72.5°	3982.3	1669.8	378.4	352.3	368.0	348.4	369.9	350.4	314.5	302.8
5163.7	75°	3294.6	1253.0	291.1	304.8	316.5	301.5	315.9	301.5	269.0	277.4
3814.3	77.5°	2392.7	846.0	222.7	254.6	259.8	252.0	264.4	248.1	218.8	216.9
1901.0	80°	1189.8	495.6	174.5	201.2	199.3	194.1	208.4	200.6	175.8	186.3
513.2	82.5°	344.5	212.3	127.0	141.3	137.4	138.7	149.1	153.0	229.2	227.3
159.6	85°	108.1	83.4	76.2	78.8	74.9	76.8	87.9	174.5	161.5	94.4
49.5	87.5°	28.0	28.7	18.9	20.2	20.8	24.7	28.0	106.2	50.8	33.2
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>
2222.0
2115.9
1887.9
1573.4
1329.2
1215.9
1134.5
1106.5
1098.0
1066.1
1012.7
969.0
928.0
883.1
832.9
776.3
687.7
646.0
672.1
653.8
579.0
528.8
504.1
472.8
442.8
412.9
385.5
358.8
327.6
293.1
253.3
207.1
184.3
232.5
102.2
35.2
0.0

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