

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: P942917

Luminaire Tested: **GALN-SB7A-927-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-927-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19431 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

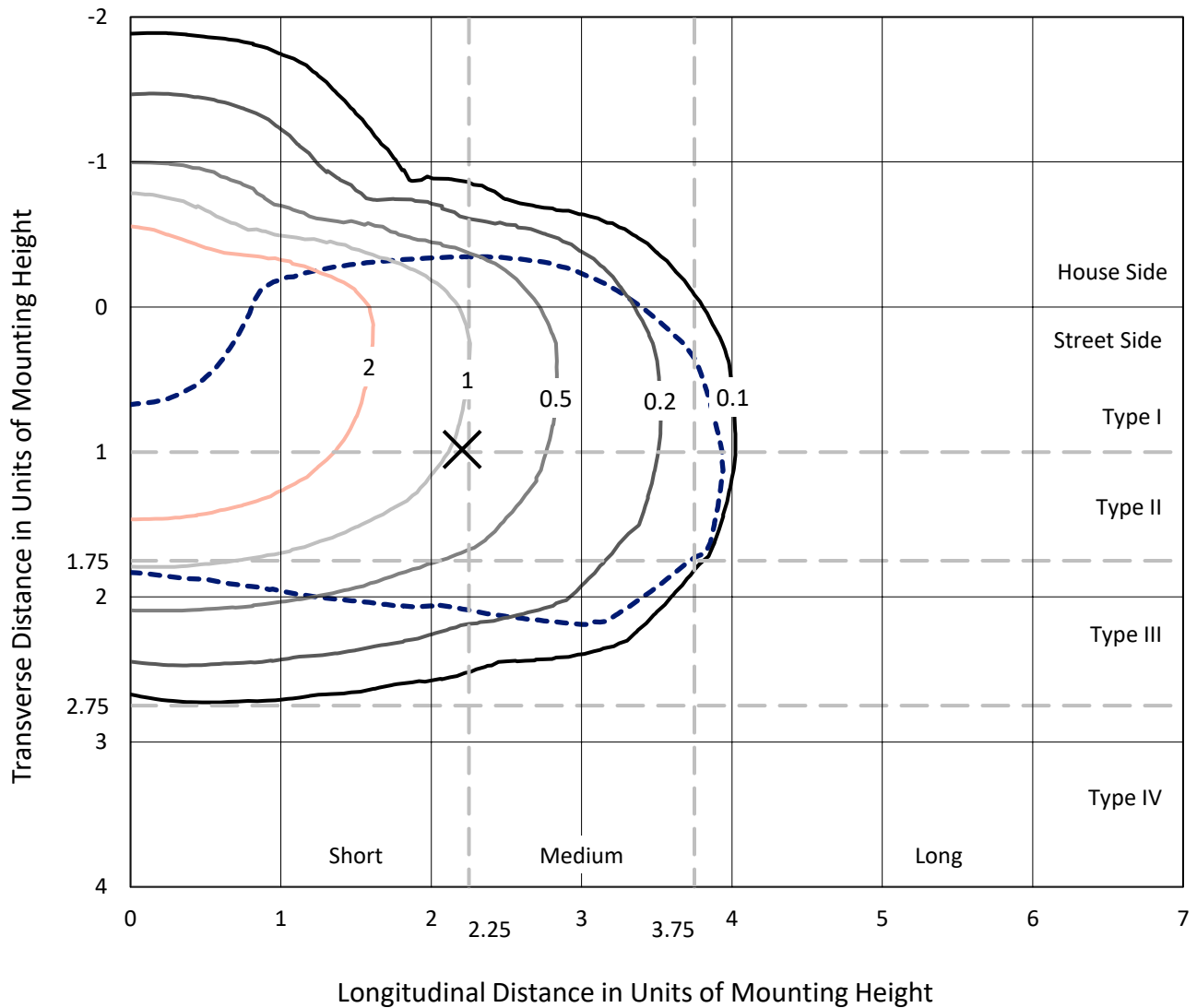
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P942917
 CATALOG NUMBER: GALN-SB7A-927-U-T3

Iso-Footcandle Lines of Horizontal Illumination

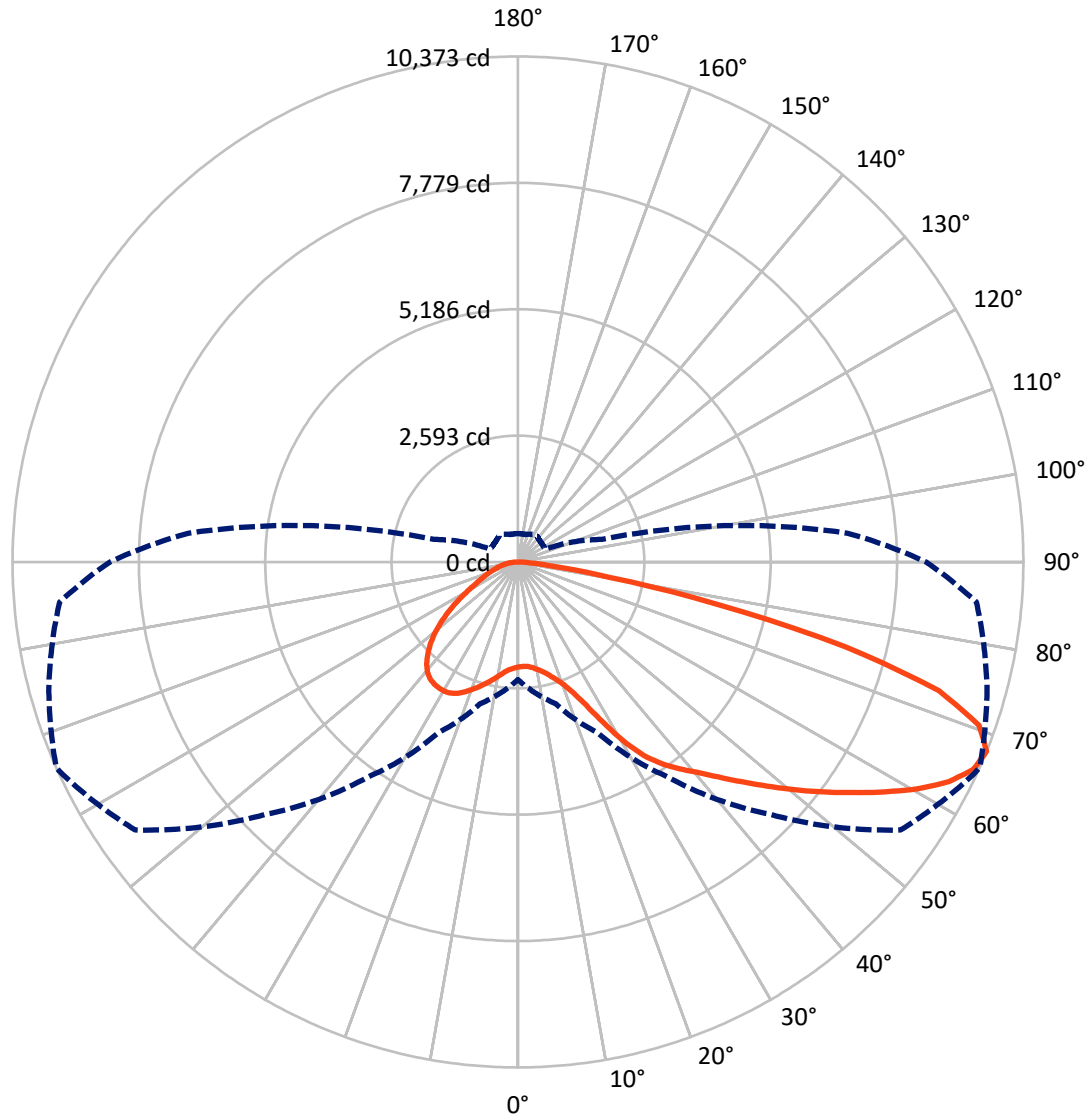
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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CATALOG NUMBER: GALN-SB7A-927-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4831.5	0.0	4831.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	14599.5	0.0	14599.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	19431.0	0.0	19431.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.7	1.1
10°-20°	706.0	3.6
20°-30°	1360.7	7.0
30°-40°	2385.8	12.3
40°-50°	3546.9	18.3
50°-60°	4496.0	23.1
60°-70°	4399.2	22.6
70°-80°	2098.5	10.8
80°-90°	224.3	1.2
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°	19431.0	100.0
0°-180°	19431.0	100.0

Coefficient of Utilization



REPORT NUMBER: P942917

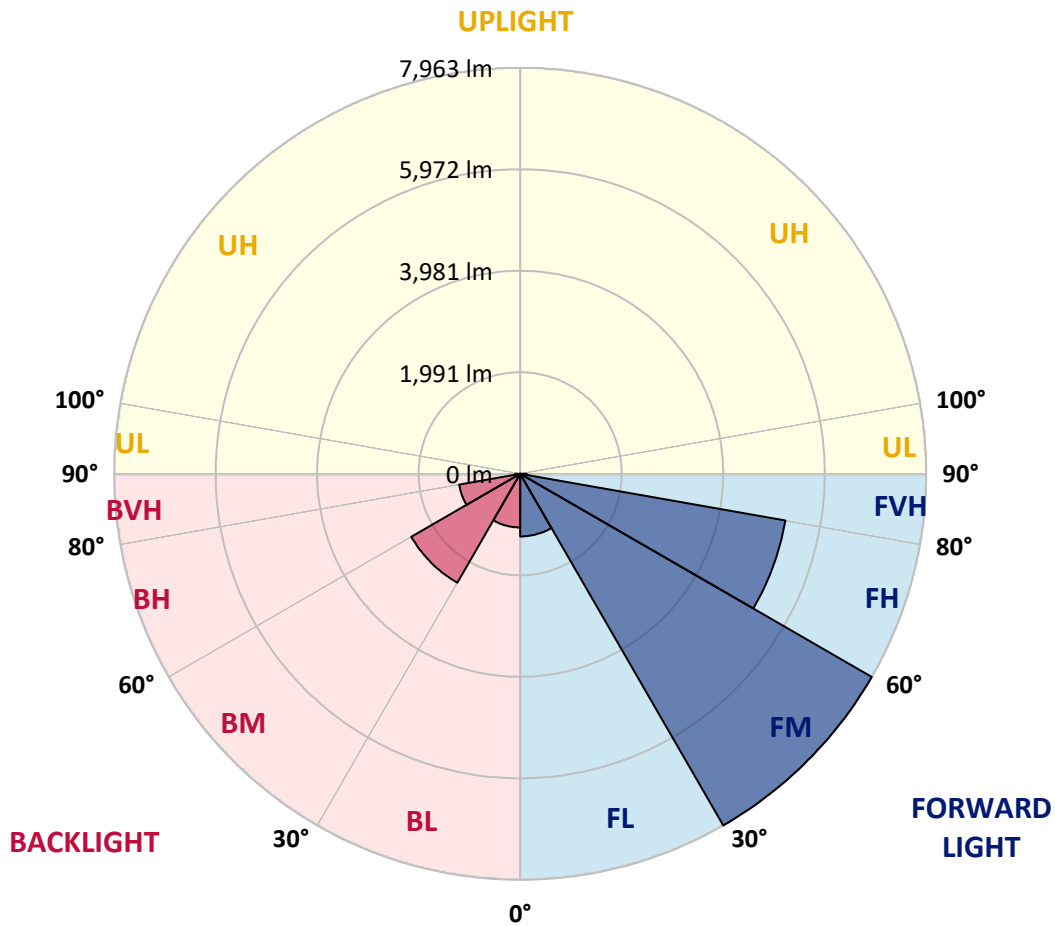
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1227.8	6.3			
FM (30°-60°)	7962.7	41.0			
FH (60°-80°)	5281.9	27.2			G3/7500
FVH (80°-90°)	127.2	0.7			G2/225
BL (0°-30°)	1052.5	5.4	B3/2500		
BM (30°-60°)	2466.0	12.7	B2/2500		
BH (60°-80°)	1215.8	6.3	B3/2500		G3/2500
BVH (80°-90°)	97.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



REPORT NUMBER: P942917
 CATALOG NUMBER: GALN-SB7A-927-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2
2.5°	2132.7	2144.9	2141.9	2136.8	2135.8	2137.8	2140.9	2143.9	2142.9	2148.0
5°	2126.6	2138.8	2137.8	2137.8	2141.9	2150.1	2155.2	2160.3	2155.2	2161.3
7.5°	2130.7	2139.8	2143.9	2148.0	2158.2	2173.5	2185.8	2197.0	2190.9	2198.0
10°	2182.7	2189.9	2193.9	2193.9	2201.1	2218.5	2230.7	2251.1	2246.0	2257.2
12.5°	2277.7	2284.8	2284.8	2280.7	2285.8	2297.1	2301.1	2323.6	2314.4	2332.8
15°	2394.0	2408.3	2397.1	2390.0	2392.0	2403.2	2402.2	2419.6	2410.4	2425.7
17.5°	2522.7	2541.1	2522.7	2521.7	2517.6	2529.8	2530.9	2546.2	2529.8	2541.1
20°	2674.8	2700.3	2685.0	2690.1	2680.9	2686.0	2691.1	2713.6	2688.1	2696.2
22.5°	2889.2	2919.8	2903.5	2922.9	2916.8	2912.7	2911.7	2951.5	2911.7	2914.7
25°	3201.6	3238.3	3209.8	3236.3	3236.3	3249.6	3264.9	3315.9	3249.6	3230.2
27.5°	3663.0	3699.8	3643.7	3660.0	3654.9	3687.6	3671.2	3797.8	3726.3	3694.7
30°	4218.4	4283.8	4177.6	4173.5	4168.4	4220.5	4243.9	4327.7	4255.2	4223.5
32.5°	4818.7	4887.1	4760.5	4723.8	4704.4	4736.0	4716.6	4784.0	4734.0	4685.0
35°	5453.7	5521.1	5400.6	5329.2	5251.6	5185.2	5115.8	5133.2	5086.2	5011.7
37.5°	6054.0	6177.6	6050.0	5973.4	5830.5	5700.8	5506.8	5426.2	5382.3	5313.9
40°	6665.6	6736.0	6639.0	6573.7	6418.5	6215.3	5905.0	5734.5	5675.3	5608.9
42.5°	7115.8	7183.2	7131.1	7086.2	6964.7	6728.9	6327.6	6114.3	6028.5	5954.0
45°	7473.1	7523.1	7490.5	7506.8	7454.7	7226.0	6765.6	6521.6	6432.8	6341.9
47.5°	7617.1	7670.1	7722.2	7819.2	7908.0	7739.6	7236.3	6962.7	6868.7	6775.8
50°	7600.7	7654.8	7805.9	8012.2	8287.8	8231.6	7732.4	7432.3	7345.5	7239.3
52.5°	7470.0	7531.3	7725.3	8068.3	8507.3	8600.2	8237.8	7917.2	7835.5	7708.9
55°	7127.0	7163.8	7454.7	7940.7	8559.4	8857.5	8732.9	8433.8	8352.1	8175.5
57.5°	6491.0	6544.1	6967.8	7596.6	8428.7	9032.0	9167.8	8976.9	8898.3	8644.1
60°	5661.0	5745.7	6230.7	7018.8	8095.9	9031.0	9562.9	9510.9	9445.5	9105.6
62.5°	4721.7	4819.7	5286.3	6202.1	7513.9	8774.8	9810.0	9958.0	9924.3	9531.3
65°	3626.3	3693.7	4158.2	5145.4	6608.4	8224.5	9838.6	10263.3	10269.4	9854.9
67.5°	2414.5	2608.4	3011.7	3861.1	5395.5	7325.1	9587.4	10313.3	10372.5	9966.2
70°	1178.1	1433.4	1828.5	2509.4	3861.1	5945.8	8931.0	9902.9	10034.6	9641.5
72.5°	489.0	571.7	787.1	1238.4	2216.4	4012.2	7612.0	8790.1	9034.1	8543.0
75°	329.8	357.3	450.2	635.0	1009.7	1978.5	5489.5	6554.3	6947.3	6452.2
77.5°	254.2	271.6	327.7	444.1	600.3	748.3	2938.2	3949.9	4153.1	3844.8
80°	200.1	213.4	245.0	323.6	425.7	400.2	1001.5	1789.7	1907.1	1599.8
82.5°	173.6	178.7	175.6	219.5	282.8	233.8	328.7	660.5	728.9	528.8
85°	125.6	139.9	146.0	135.8	150.1	118.4	134.8	233.8	257.3	229.7
87.5°	51.0	75.5	92.9	87.8	55.1	33.7	41.9	68.4	78.6	85.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942917
 CATALOG NUMBER: GALN-SB7A-927-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2155.2	0°	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2
2156.2	2.5°	2157.2	2164.3	2169.4	2175.6	2179.7	2185.8	2198.0	2205.2	2206.2	2211.3
2172.5	5°	2176.6	2186.8	2198.0	2214.4	2232.7	2248.1	2271.5	2287.9	2294.0	2299.1
2212.3	7.5°	2218.5	2232.7	2253.2	2281.7	2308.3	2328.7	2357.3	2376.7	2396.1	2403.2
2275.6	10°	2280.7	2301.1	2330.8	2369.5	2398.1	2424.7	2454.3	2470.6	2490.0	2498.2
2351.2	12.5°	2358.3	2379.8	2418.6	2472.7	2499.2	2517.6	2527.8	2523.7	2527.8	2534.9
2442.0	15°	2447.1	2470.6	2514.5	2572.7	2591.1	2574.8	2552.3	2531.9	2528.8	2530.9
2552.3	17.5°	2552.3	2569.6	2620.7	2669.7	2656.4	2589.0	2540.0	2507.4	2491.0	2485.9
2693.2	20°	2699.3	2699.3	2741.2	2771.8	2683.0	2568.6	2492.1	2439.0	2405.3	2391.0
2885.1	22.5°	2878.0	2861.6	2888.2	2866.7	2677.9	2511.5	2405.3	2313.4	2262.4	2241.9
3153.6	25°	3104.6	3085.2	3078.1	2945.3	2641.1	2420.6	2248.1	2136.8	2091.9	2080.6
3540.5	27.5°	3446.6	3397.6	3304.7	2988.2	2573.7	2277.7	2064.3	1961.2	1935.7	1936.7
4037.7	30°	3901.9	3803.9	3576.3	2995.4	2463.5	2075.5	1876.4	1802.9	1790.7	1795.8
4455.3	32.5°	4323.6	4230.7	3854.0	2962.7	2294.0	1877.5	1708.0	1659.0	1640.6	1646.7
4773.8	35°	4654.4	4628.8	4111.2	2916.8	2085.7	1691.7	1556.9	1515.0	1479.3	1471.1
5074.0	37.5°	4966.8	4956.5	4304.2	2852.4	1879.5	1560.0	1435.4	1380.3	1328.2	1299.6
5405.8	40°	5309.8	5299.6	4430.8	2753.4	1696.8	1445.6	1326.2	1253.7	1189.4	1137.3
5781.5	42.5°	5695.7	5635.5	4491.0	2611.5	1541.6	1348.6	1237.4	1139.3	1054.6	1006.6
6206.2	45°	6117.3	5981.5	4490.0	2430.8	1410.9	1259.8	1142.4	1003.6	925.0	880.0
6642.1	47.5°	6564.5	6312.3	4434.9	2230.7	1284.3	1161.8	995.4	889.2	837.2	809.6
7115.8	50°	7025.9	6621.7	4340.9	2001.0	1154.7	1050.5	903.5	831.0	791.2	765.7
7585.4	52.5°	7459.8	6902.4	4227.6	1740.7	1023.0	942.3	862.7	806.5	764.7	736.1
8040.7	55°	7863.1	7144.4	4067.3	1474.2	915.8	869.8	843.3	796.3	748.3	714.6
8503.2	57.5°	8221.4	7301.6	3790.7	1224.1	839.2	819.8	822.9	779.0	723.8	695.2
8958.5	60°	8519.5	7417.0	3381.3	992.3	776.9	770.8	791.2	746.3	682.0	649.3
9343.4	62.5°	8698.2	7414.9	2879.0	812.6	723.8	725.9	749.4	705.5	640.1	609.5
9544.5	65°	8682.9	7233.2	2327.7	695.2	672.8	674.8	705.5	660.5	605.4	587.0
9443.5	67.5°	8375.6	6790.1	1785.6	618.7	616.6	625.8	661.6	629.9	584.0	581.9
8841.1	70°	7543.6	5870.3	1286.4	557.4	558.4	571.7	618.7	610.5	572.7	576.8
7433.3	72.5°	6048.9	4475.7	863.7	493.1	494.1	515.6	577.8	595.2	561.5	615.6
5274.1	75°	4028.5	2791.2	555.4	424.7	425.7	453.3	542.1	565.6	530.9	613.6
2744.2	77.5°	1935.7	1254.7	402.2	357.3	357.3	382.8	468.6	506.4	452.3	476.8
882.1	80°	668.7	471.7	316.5	287.9	281.8	299.1	395.1	439.0	390.0	359.4
287.9	82.5°	263.4	245.0	254.2	223.6	203.2	214.4	307.3	362.4	286.9	259.3
162.3	85°	151.1	159.3	179.7	148.0	117.4	131.7	225.6	260.3	216.4	190.9
53.1	87.5°	40.8	56.2	82.7	76.6	53.1	56.2	107.2	143.9	124.6	96.0
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>
2155.2
2210.3
2298.1
2404.3
2502.3
2537.0
2538.0
2493.1
2387.9
2238.9
2082.7
1939.7
1813.1
1654.9
1477.3
1300.6
1142.4
1009.7
878.0
803.5
756.5
723.8
701.4
676.9
635.0
600.3
586.0
585.0
575.8
623.8
618.7
437.0
336.9
258.3
195.0
99.0
0.0

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