

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: P950097

Luminaire Tested: **GALN-SB4C-927-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-927-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15210 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

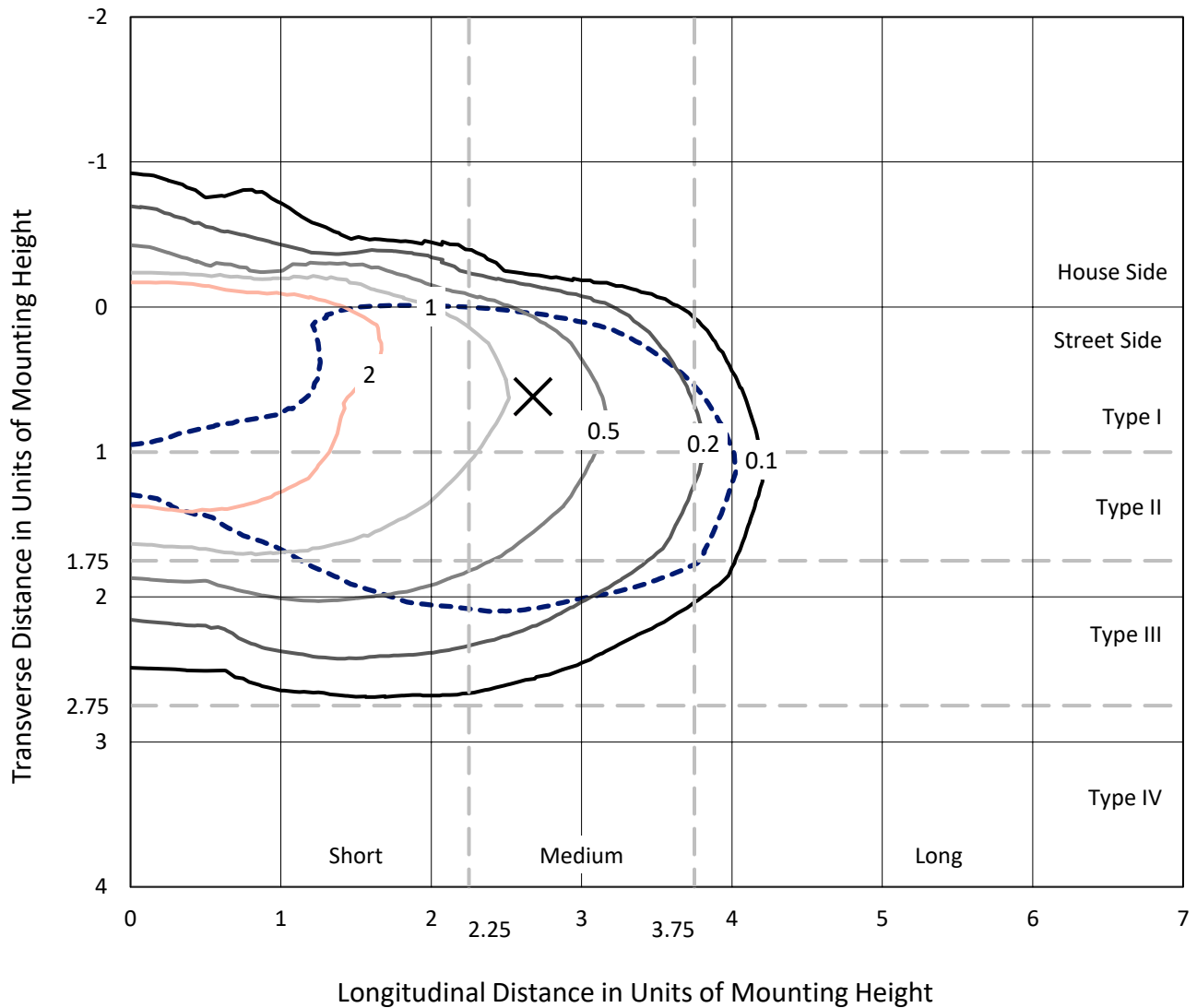
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

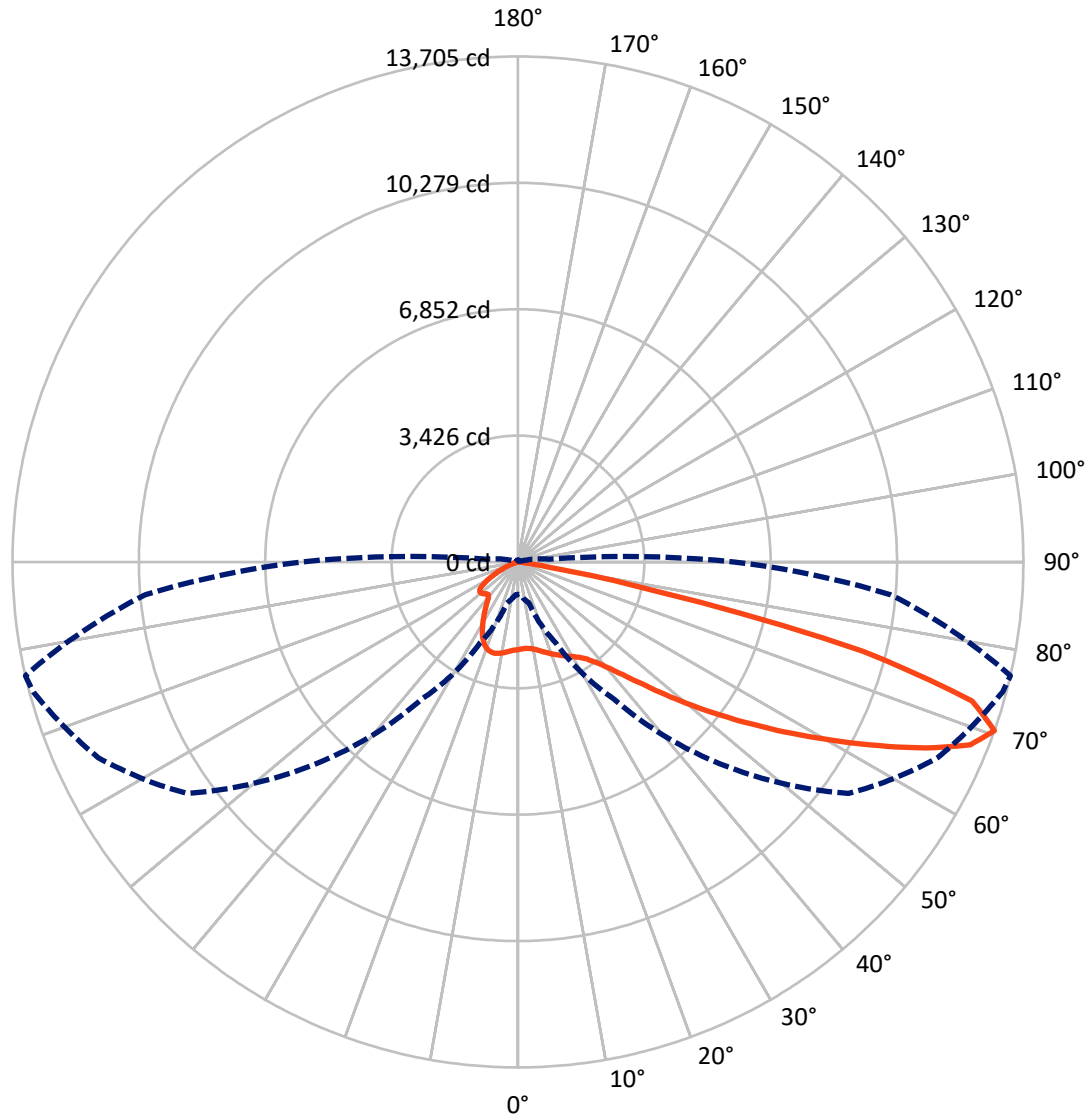
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1603.3	0.0	1603.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	13606.7	0.0	13606.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	15210.0	0.0	15210.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.5	1.3
10°-20°	485.4	3.2
20°-30°	750.8	4.9
30°-40°	1362.3	9.0
40°-50°	2571.5	16.9
50°-60°	3715.6	24.4
60°-70°	3955.2	26.0
70°-80°	2096.0	13.8
80°-90°	68.8	0.5
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°	15210.0	100.0
0°-180°	15210.0	100.0

Coefficient of Utilization



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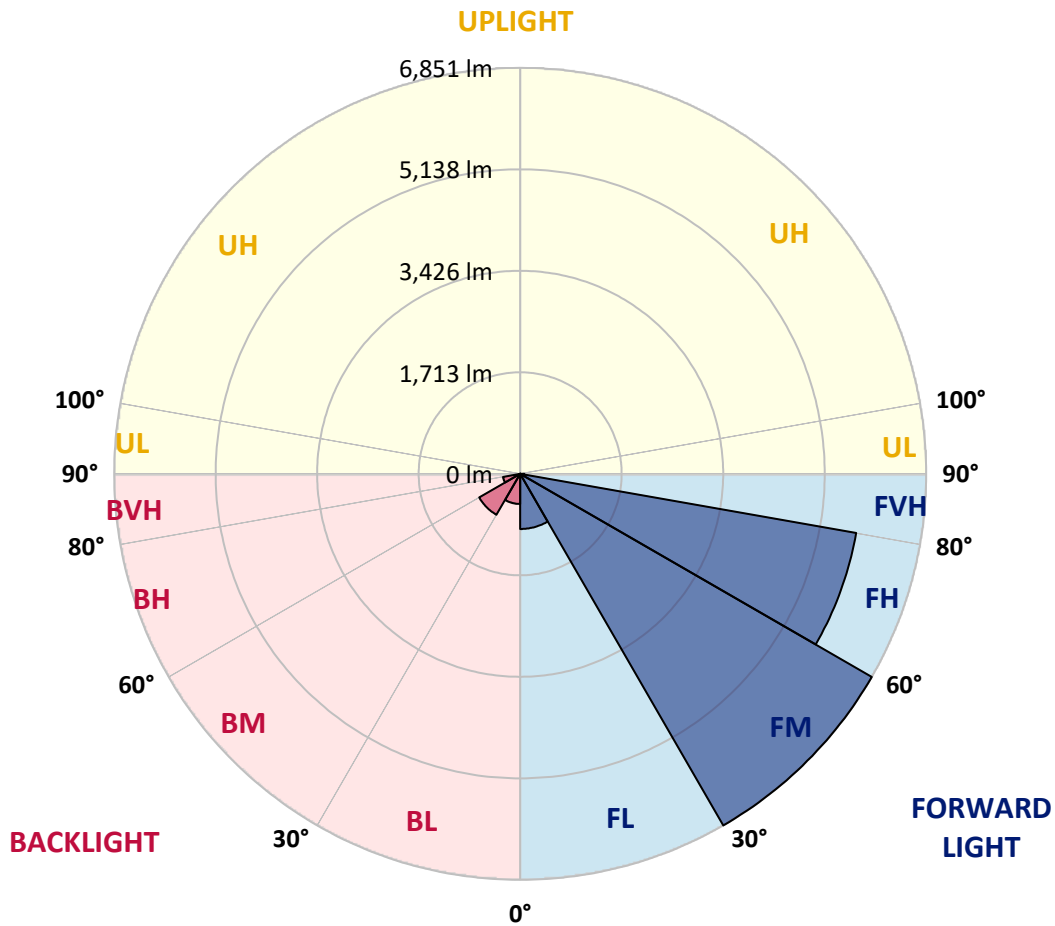
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	931.2	6.1			
FM (30°-60°)	6851.3	45.0			
FH (60°-80°)	5757.2	37.9			G3/7500
FVH (80°-90°)	67.0	0.4			G1/100
BL (0°-30°)	509.4	3.3	B2/1000		
BM (30°-60°)	798.2	5.2	B1/1000		
BH (60°-80°)	293.9	1.9	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5
2.5°	2227.4	2247.6	2244.7	2258.2	2263.0	2282.2	2301.4	2327.3	2356.2	2355.2
5°	2101.6	2121.8	2126.6	2144.8	2167.9	2197.7	2237.1	2288.9	2342.7	2351.4
7.5°	1952.7	1973.9	1986.4	2022.9	2065.1	2126.6	2190.9	2266.8	2356.2	2368.6
10°	1803.9	1823.1	1839.4	1891.3	1958.5	2049.8	2154.4	2263.9	2384.0	2402.3
12.5°	1711.6	1729.9	1748.1	1793.3	1876.9	1988.3	2130.4	2277.4	2430.1	2456.1
15°	1679.0	1695.3	1709.7	1750.1	1827.9	1954.7	2125.6	2305.2	2488.7	2523.3
17.5°	1683.8	1692.4	1702.0	1732.8	1808.7	1939.3	2134.3	2353.3	2557.9	2588.6
20°	1711.6	1716.4	1717.4	1738.5	1805.8	1937.4	2151.6	2399.4	2623.2	2664.5
22.5°	1747.2	1749.1	1747.2	1761.6	1824.0	1951.8	2174.6	2455.1	2696.2	2734.6
25°	1913.4	1876.9	1830.8	1802.9	1854.8	1979.6	2209.2	2530.0	2775.9	2813.4
27.5°	2429.2	2324.5	2159.2	1973.9	1918.2	2020.0	2257.2	2605.9	2856.6	2890.2
30°	3266.7	3129.4	2848.9	2431.1	2121.8	2104.5	2319.7	2681.8	2942.1	2978.6
32.5°	4106.2	4072.6	3748.9	3170.7	2580.0	2292.8	2423.4	2784.5	3055.4	3084.2
35°	4955.3	4887.1	4622.0	4050.5	3285.9	2676.0	2596.3	2919.0	3204.3	3237.0
37.5°	5605.6	5564.3	5400.0	4929.4	4123.5	3267.7	2892.1	3127.5	3420.4	3456.9
40°	6180.0	6160.8	6105.1	5794.8	5060.0	4041.9	3352.2	3450.2	3720.1	3763.3
42.5°	6631.4	6676.6	6708.3	6621.8	6025.3	4925.5	3970.8	3903.6	4137.9	4182.1
45°	7093.4	7108.8	7236.6	7361.4	6983.9	5849.6	4668.1	4434.7	4657.6	4712.3
47.5°	7390.2	7451.7	7676.5	7896.4	7789.8	6765.9	5417.3	5061.9	5259.8	5362.6
50°	7412.3	7528.6	7837.8	8221.1	8376.7	7638.1	6231.9	5776.6	5986.9	6100.3
52.5°	7044.5	7225.0	7704.3	8265.3	8693.7	8376.7	7074.2	6491.2	6761.1	6909.0
55°	5401.0	5637.3	7202.0	8025.1	8706.2	8936.7	7894.5	7235.6	7623.7	7790.8
57.5°	4705.6	4824.7	5662.3	7608.3	8474.7	9162.4	8636.0	7944.5	8562.1	8769.6
60°	3915.1	4071.6	4748.8	6926.3	8160.6	9184.5	9291.1	8858.9	9579.3	9812.7
62.5°	2660.6	2830.7	3504.0	5754.5	7731.2	9173.9	9828.0	9800.2	10709.8	10960.5
65°	1648.3	1754.9	2198.6	4698.9	7130.9	9185.5	10389.9	10943.2	11902.8	12157.3
67.5°	1302.5	1351.5	1582.9	3607.7	6096.4	8926.1	10950.9	12018.0	13025.6	13227.3
70°	875.0	904.8	1151.7	2418.6	4535.6	7729.3	10940.3	12557.8	13603.8	13704.7
72.5°	461.0	484.1	673.3	1120.0	2739.4	5494.2	9222.0	11912.4	13028.5	12876.7
75°	230.5	268.9	453.4	568.6	1169.9	3064.1	5726.6	9392.0	10254.5	9666.7
77.5°	174.8	211.3	374.6	374.6	407.3	1031.6	2425.3	5122.5	4724.8	3934.3
80°	111.4	144.1	327.5	283.4	170.0	262.2	632.0	1435.0	1003.7	763.6
82.5°	65.3	94.1	272.8	187.3	95.1	97.0	178.7	305.4	260.3	202.7
85°	25.9	61.5	187.3	74.0	37.5	24.0	53.8	65.3	53.8	40.3
87.5°	0.0	14.4	32.7	0.0	2.9	1.9	3.8	4.8	4.8	3.8
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°
2372.5	0°	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5
2374.4	2.5°	2383.1	2385.0	2390.7	2391.7	2378.2	2361.0	2354.2	2351.4	2339.8	2338.9
2389.8	5°	2411.9	2420.5	2411.9	2386.9	2327.3	2243.8	2180.4	2128.5	2081.4	2067.0
2442.6	7.5°	2469.5	2478.1	2452.2	2354.2	2204.4	2038.2	1888.4	1782.7	1687.6	1652.1
2507.0	10°	2552.1	2563.6	2482.0	2284.1	2019.0	1752.0	1498.4	1319.8	1180.5	1123.8
2594.4	12.5°	2655.8	2660.6	2498.3	2177.5	1777.9	1396.6	1037.4	846.2	722.3	676.2
2700.0	15°	2770.1	2763.4	2500.2	2032.5	1449.4	987.4	677.2	556.1	506.2	490.8
2805.7	17.5°	2890.2	2862.4	2461.8	1823.1	1089.2	675.2	502.4	473.5	464.9	461.0
2910.4	20°	3008.3	2945.9	2391.7	1549.3	781.9	504.3	456.2	447.6	442.8	440.9
3016.0	22.5°	3115.9	3009.3	2271.6	1231.4	567.7	445.7	431.3	423.6	414.9	411.1
3118.8	25°	3220.6	3045.8	2102.6	934.6	454.3	416.9	405.3	390.9	379.4	374.6
3229.3	27.5°	3322.4	3068.9	1891.3	691.6	405.3	390.0	368.8	348.7	340.0	338.1
3347.4	30°	3431.0	3076.5	1651.1	515.8	375.6	356.4	325.6	302.6	297.8	298.7
3506.9	32.5°	3563.5	3088.1	1409.1	422.6	350.6	316.0	279.5	255.5	251.7	255.5
3739.3	35°	3722.0	3111.1	1175.7	389.0	328.5	274.7	235.3	215.2	211.3	214.2
4037.1	37.5°	3937.2	3148.6	957.6	382.3	310.2	240.1	197.9	181.5	181.5	182.5
4402.1	40°	4223.4	3248.5	762.7	377.5	300.6	214.2	167.1	160.4	163.3	165.2
4867.0	42.5°	4572.1	3460.8	631.1	371.7	290.1	202.7	151.8	148.9	153.7	155.6
5424.1	45°	4963.0	3729.7	585.0	362.1	280.5	210.4	145.0	141.2	147.0	147.9
6048.4	47.5°	5367.4	3992.9	579.2	351.6	270.9	221.9	143.1	134.5	141.2	142.2
6715.0	50°	5776.6	4164.8	585.0	335.2	255.5	221.9	144.1	127.7	133.5	136.4
7406.6	52.5°	6188.6	4243.6	581.1	299.7	228.6	208.4	144.1	122.0	127.7	129.7
8153.9	55°	6588.2	4228.2	522.5	246.9	194.0	184.4	140.2	117.2	121.0	122.0
8859.8	57.5°	6904.2	4014.0	414.0	192.1	157.5	153.7	127.7	111.4	114.3	113.3
9507.2	60°	7069.4	3543.4	295.8	147.9	123.9	121.0	112.4	103.7	105.7	100.9
10055.7	62.5°	7071.4	2920.9	197.9	117.2	98.9	96.1	96.1	93.2	91.2	81.6
10480.2	65°	6920.5	2230.3	131.6	93.2	79.7	74.9	80.7	79.7	73.0	59.6
10609.9	67.5°	6578.6	1461.9	99.9	73.0	61.5	58.6	64.4	67.2	62.4	49.9
10137.3	70°	5875.5	851.0	82.6	56.7	46.1	43.2	51.9	57.6	51.9	40.3
8664.9	72.5°	4880.4	459.1	67.2	42.3	31.7	28.8	41.3	47.1	41.3	29.8
5559.5	75°	3166.8	245.9	51.9	27.9	16.3	18.2	30.7	34.6	28.8	19.2
1631.9	77.5°	1063.3	108.5	32.7	13.4	7.7	7.7	18.2	21.1	13.4	6.7
296.8	80°	237.2	45.1	13.4	5.8	2.9	2.9	3.8	3.8	1.9	0.0
91.2	82.5°	77.8	18.2	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
23.1	85°	29.8	6.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.7	87.5°	11.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

180°
2372.5
2340.8
2058.4
1637.7
1099.8
661.8
490.8
460.1
439.0
410.1
372.7
336.2
298.7
254.5
213.2
181.5
165.2
155.6
148.9
143.1
137.4
129.7
122.0
113.3
99.9
78.8
57.6
49.0
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