

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: P951585

Luminaire Tested: **GALN-SB5C-940-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951585
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-SB5C-940-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27922 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

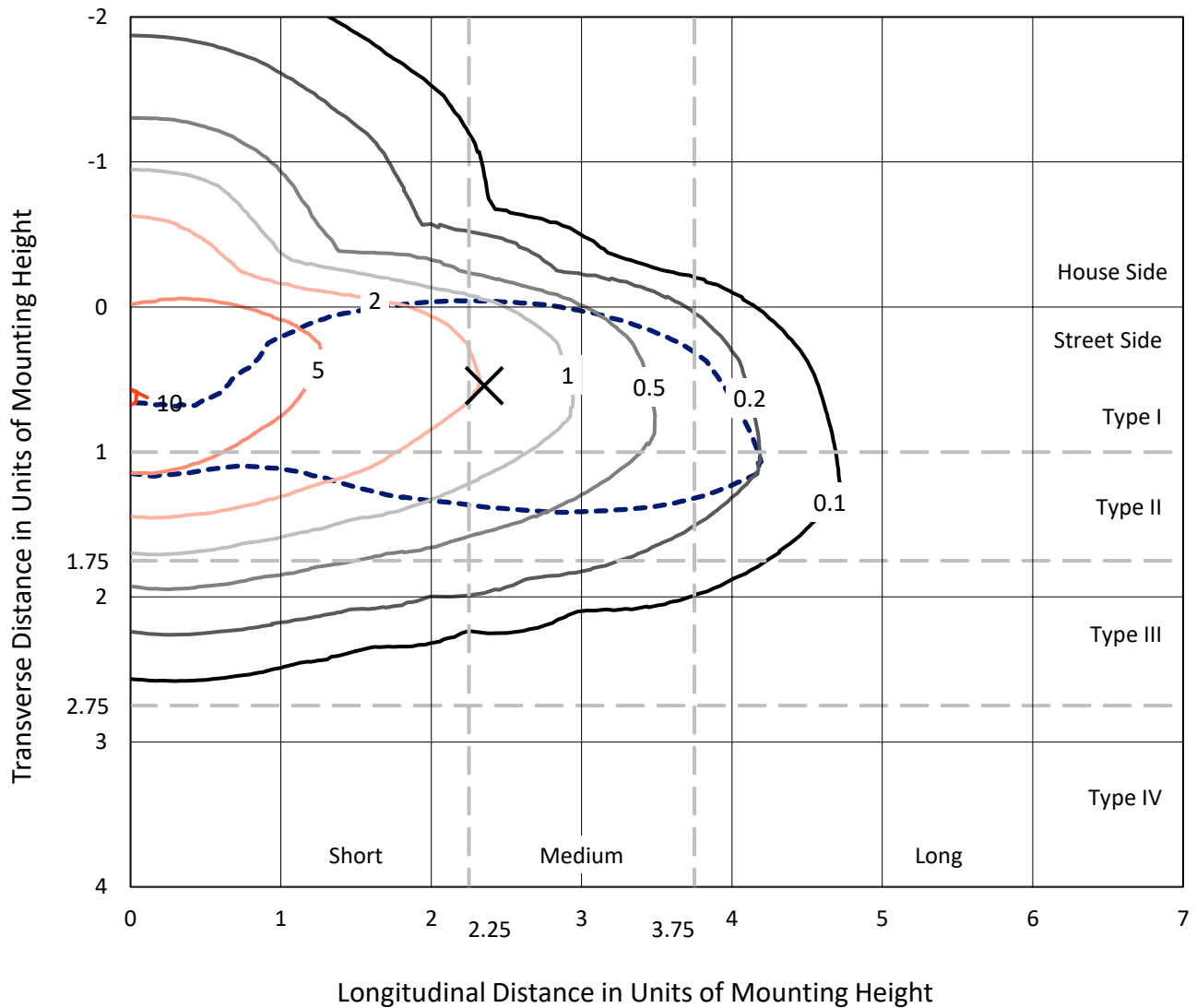
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

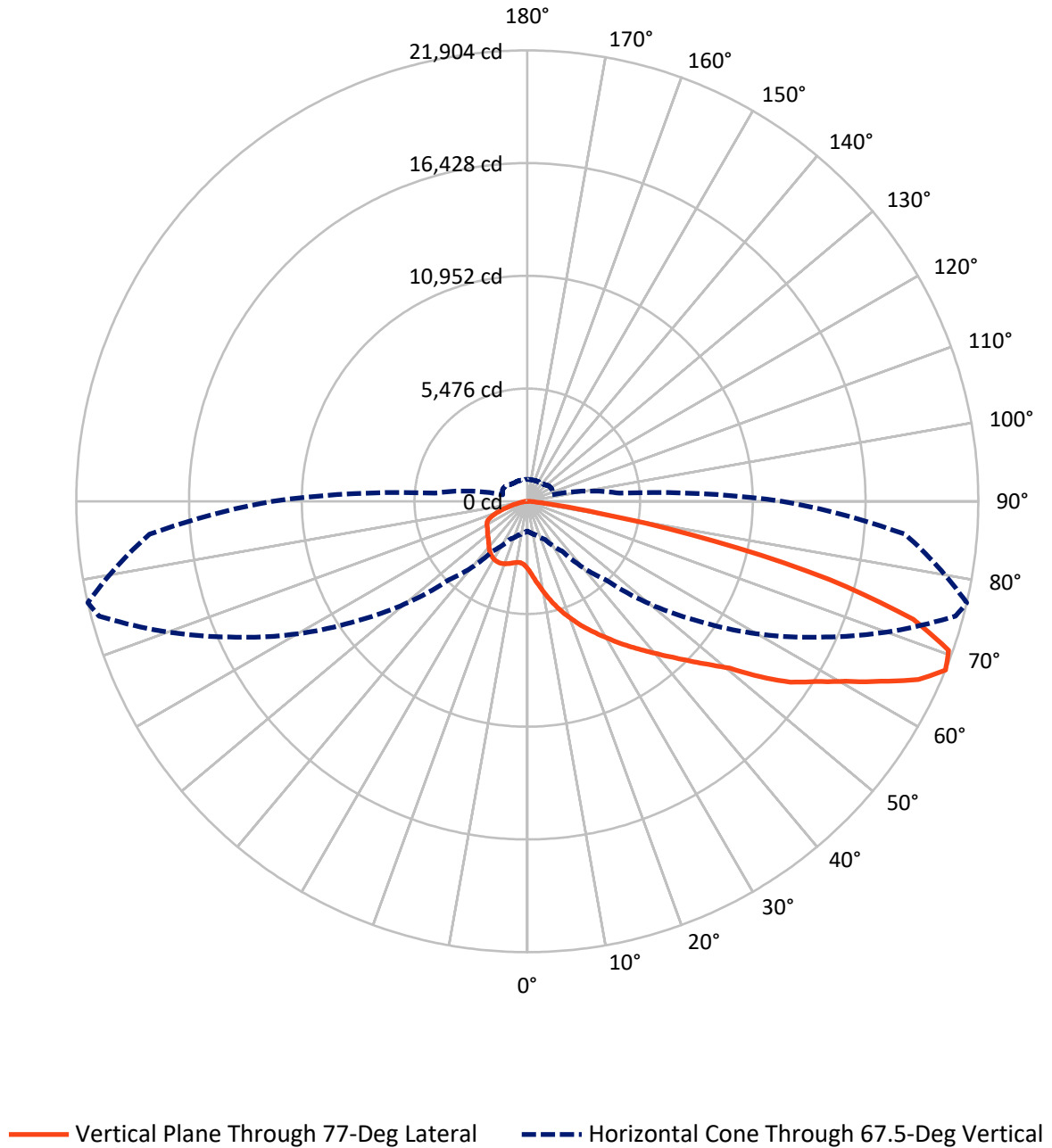
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	5281.7	0.0	5281.7
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	22640.3	0.0	22640.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	27922.0	0.0	27922.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.2	1.3
10°-20°	1261.6	4.5
20°-30°	2381.9	8.5
30°-40°	3837.3	13.7
40°-50°	5248.7	18.8
50°-60°	5920.6	21.2
60°-70°	5526.1	19.8
70°-80°	3029.2	10.8
80°-90°	365.4	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°	27922.0	100.0
0°-180°	27922.0	100.0

Coefficient of Utilization



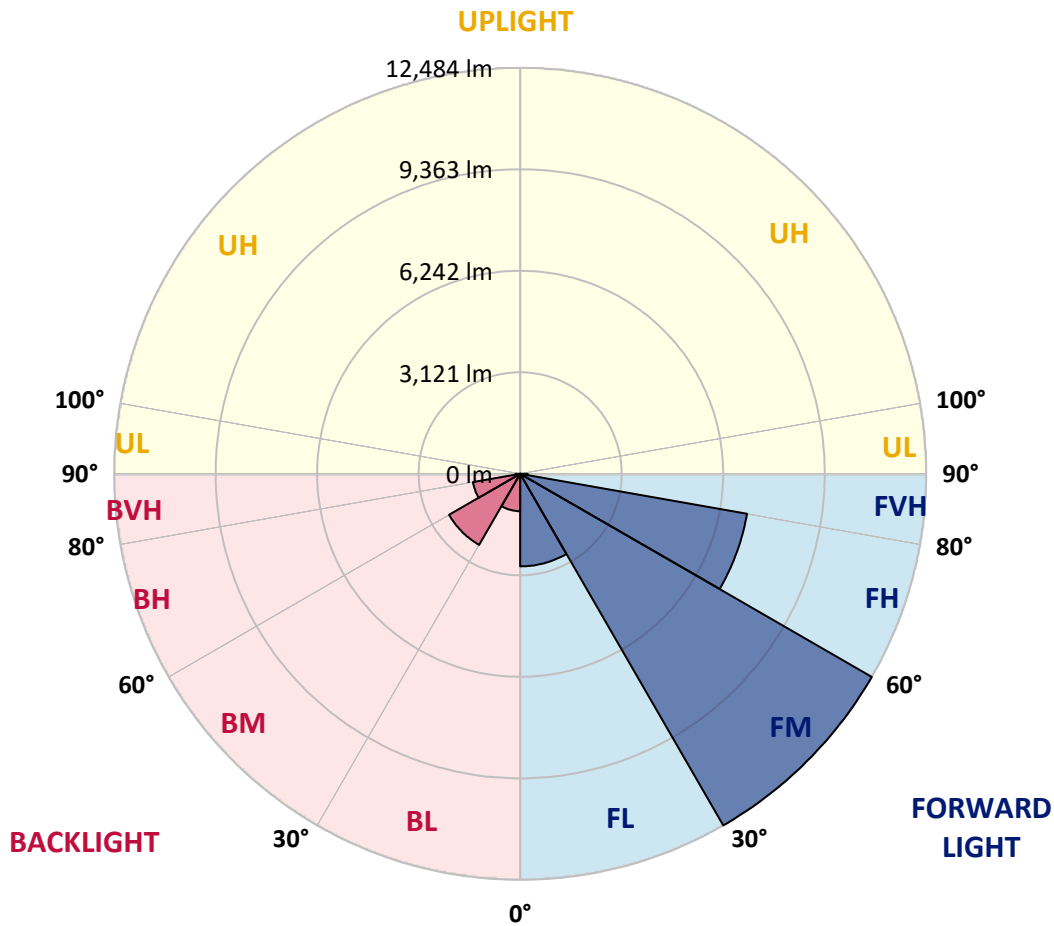
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2846.3	10.2			
FM (30°-60°)	12483.6	44.7			
FH (60°-80°)	7081.9	25.4			G3/7500
FVH (80°-90°)	228.5	0.8			G3/500
BL (0°-30°)	1148.4	4.1	B3/2500		
BM (30°-60°)	2522.9	9.0	B3/5000		
BH (60°-80°)	1473.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	136.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3276.1	3276.1	3276.1	3276.1	3276.1	3276.1	3276.1	3276.1	3276.1	3276.1
2.5°	4102.0	4130.8	4094.8	4094.8	3973.7	3910.3	3789.2	3697.0	3531.2	3502.4
5°	4848.6	4884.6	4834.2	4812.6	4669.9	4538.7	4335.5	4135.1	3839.7	3809.4
7.5°	5426.6	5472.7	5428.0	5404.9	5278.1	5131.1	4893.3	4613.7	4197.1	4138.0
10°	5897.9	5905.1	5890.7	5899.3	5799.9	5678.8	5435.2	5109.5	4589.2	4508.4
12.5°	6164.5	6197.7	6226.5	6278.4	6261.1	6186.1	5967.1	5577.9	5004.3	4900.5
15°	6289.9	6347.6	6412.4	6532.1	6628.6	6647.4	6480.2	6080.9	5426.6	5301.2
17.5°	6334.6	6389.4	6491.7	6664.7	6872.2	7012.0	6937.1	6569.5	5844.5	5700.4
20°	6560.9	6576.7	6638.7	6803.0	7027.9	7259.9	7316.1	7039.4	6258.2	6095.3
22.5°	7045.2	7013.5	7030.8	7105.7	7267.1	7492.0	7620.3	7454.5	6683.4	6496.0
25°	7845.1	7752.9	7660.6	7574.1	7656.3	7783.1	7928.7	7869.6	7128.8	6890.9
27.5°	8855.5	8743.0	8539.8	8255.9	8156.4	8201.1	8266.0	8254.4	7541.0	7300.3
30°	9850.0	9718.8	9476.7	9065.9	8803.6	8685.4	8636.4	8603.2	7989.2	7732.7
32.5°	10644.1	10540.4	10302.5	9842.8	9462.3	9260.5	9097.6	8979.4	8457.7	8201.1
35°	11338.9	11242.3	10969.9	10468.3	10054.6	9839.9	9626.6	9374.3	8944.8	8685.4
37.5°	11973.0	11876.5	11503.2	10981.4	10564.9	10416.4	10226.2	9798.1	9433.4	9188.4
40°	12373.7	12352.1	12003.3	11412.4	10980.0	10906.5	10843.0	10289.6	9975.4	9747.6
42.5°	12476.1	12523.6	12246.9	11761.2	11348.9	11289.9	11438.3	10845.9	10583.6	10366.0
45°	12229.6	12366.5	12184.9	11854.8	11611.3	11579.6	11965.8	11454.2	11256.7	11057.8
47.5°	11605.5	11837.6	11762.6	11716.5	11681.9	11818.8	12429.9	12099.9	12019.2	11846.2
50°	10345.8	10785.4	10916.6	11207.7	11542.1	12004.7	12852.2	12804.7	12909.9	12735.5
52.5°	8168.0	8773.3	9534.3	10263.6	11112.6	11942.8	13316.3	13816.5	14260.4	14165.3
55°	6742.5	7014.9	7600.1	8937.6	10279.5	11681.9	13525.3	14633.7	15600.8	15515.8
57.5°	5647.1	5890.7	6251.0	7368.0	9019.8	11089.5	13655.1	15132.4	16519.0	16510.3
60°	4472.4	4730.4	5099.4	5890.7	7548.2	10066.2	13626.2	15700.3	17690.7	17762.8
62.5°	3146.4	3430.3	3839.7	4577.6	6044.9	8740.2	13038.2	16111.1	19070.1	19266.1
65°	2068.3	2255.7	2564.1	3201.2	4504.1	7035.1	11915.4	16164.4	20546.0	20877.5
67.5°	1450.0	1522.0	1703.6	2049.6	2969.1	5394.9	10126.7	15612.4	21530.4	21903.7
70°	1131.4	1167.5	1259.7	1398.1	1865.1	3627.8	7760.1	14176.8	21320.0	21709.1
72.5°	977.2	1011.8	1046.4	1063.7	1251.1	2239.8	5256.5	11853.4	19338.2	19601.9
75°	886.4	895.1	923.9	918.1	954.2	1452.8	3034.0	8636.4	15257.8	15167.0
77.5°	745.2	756.7	804.3	797.0	847.5	993.1	1575.4	5573.6	9891.8	9274.9
80°	631.3	637.1	689.0	680.3	736.5	719.2	804.3	2840.8	4195.7	3554.3
82.5°	219.1	271.0	526.1	541.9	562.1	435.3	464.1	1158.8	1281.3	981.5
85°	106.7	113.9	268.1	380.5	379.1	219.1	226.3	413.7	403.6	317.1
87.5°	17.3	21.6	31.7	148.5	118.2	57.7	77.8	80.7	83.6	72.1
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°
3276.1	0°	3276.1	3276.1	3276.1	3276.1	3276.1	3276.1	3276.1	3276.1	3276.1	3276.1
3392.9	2.5°	3312.2	3240.1	3088.7	2948.9	2839.4	2734.2	2675.1	2624.6	2595.8	2590.1
3551.4	5°	3401.5	3253.1	2977.8	2745.7	2594.4	2482.0	2422.9	2385.4	2366.6	2355.1
3764.7	7.5°	3529.8	3312.2	2920.1	2656.4	2497.8	2417.1	2386.8	2381.1	2379.6	2381.1
4022.7	10°	3707.1	3408.7	2914.3	2634.7	2502.1	2457.4	2456.0	2457.4	2463.2	2464.7
4303.8	12.5°	3898.8	3508.2	2937.4	2653.5	2556.9	2532.4	2528.1	2526.6	2531.0	2533.8
4587.7	15°	4107.8	3639.3	2976.3	2693.8	2617.4	2591.5	2587.2	2578.5	2577.1	2575.6
4886.1	17.5°	4322.5	3769.0	3019.6	2737.1	2656.4	2620.3	2604.5	2584.3	2568.4	2564.1
5194.5	20°	4540.2	3897.3	3049.8	2758.7	2659.2	2608.8	2577.1	2542.5	2515.1	2499.2
5505.8	22.5°	4772.2	4031.4	3068.6	2752.9	2633.3	2564.1	2506.5	2466.1	2424.3	2396.9
5820.0	25°	4998.5	4148.1	3067.1	2722.7	2582.8	2494.9	2421.4	2369.5	2311.9	2283.0
6144.3	27.5°	5216.1	4253.3	3031.1	2669.3	2510.8	2412.8	2324.8	2262.9	2206.7	2179.3
6471.5	30°	5441.0	4341.3	2974.9	2591.5	2425.7	2317.6	2221.1	2167.7	2117.3	2091.4
6817.4	32.5°	5664.4	4422.0	2895.6	2494.9	2327.7	2224.0	2128.8	2079.8	2049.6	2049.6
7189.3	35°	5900.8	4478.2	2790.4	2382.5	2224.0	2124.5	2049.6	2020.7	2017.8	2000.6
7582.8	37.5°	6150.1	4514.2	2662.1	2267.2	2121.6	2027.9	2004.9	1970.3	1941.5	1904.0
8015.2	40°	6412.4	4550.2	2507.9	2147.6	2013.5	1961.6	1951.5	1905.4	1823.3	1731.0
8505.2	42.5°	6731.0	4574.7	2347.9	2027.9	1899.7	1882.4	1896.8	1817.5	1686.3	1617.2
9096.2	45°	7099.9	4615.1	2200.9	1909.7	1782.9	1782.9	1843.4	1739.7	1631.6	1588.3
9770.7	47.5°	7578.5	4708.8	2064.0	1780.0	1674.8	1703.6	1725.3	1646.0	1585.5	1532.1
10592.3	50°	8270.3	4933.6	1922.7	1648.9	1592.7	1650.3	1620.0	1573.9	1503.3	1460.1
11898.1	52.5°	9129.3	5066.2	1797.3	1530.7	1522.0	1579.7	1536.4	1493.2	1439.9	1382.2
12888.3	55°	9714.5	5090.7	1692.1	1444.2	1474.5	1468.7	1452.8	1413.9	1385.1	1308.7
13865.5	57.5°	10368.8	5139.7	1605.6	1392.3	1444.2	1380.8	1375.0	1341.9	1304.4	1252.5
15057.5	60°	11151.5	5216.1	1530.7	1372.1	1418.3	1323.1	1294.3	1281.3	1243.9	1217.9
16491.6	62.5°	12004.7	5285.3	1454.3	1375.0	1388.0	1266.9	1223.7	1219.4	1196.3	1187.6
17837.8	65°	12587.0	5096.5	1359.2	1372.1	1340.4	1209.3	1154.5	1153.1	1134.3	1131.4
18421.5	67.5°	12383.8	4498.4	1230.9	1331.8	1291.4	1151.6	1091.1	1085.3	1060.8	1062.3
17811.8	70°	11366.2	3645.1	1053.6	1232.3	1230.9	1099.7	1024.8	1006.0	972.9	978.7
15487.0	72.5°	9457.9	2701.0	815.8	1066.6	1134.3	1052.2	948.4	918.1	876.3	882.1
11432.5	75°	6830.4	1836.2	593.8	811.5	987.3	996.0	873.4	821.6	771.1	779.8
6363.4	77.5°	3495.2	1040.6	436.7	559.2	775.4	905.1	805.7	736.5	725.0	805.7
1834.8	80°	1140.1	521.8	302.7	392.0	508.8	740.8	706.2	627.0	624.1	642.8
384.8	82.5°	340.2	220.5	194.6	258.0	281.1	567.9	609.7	474.2	407.9	429.5
128.3	85°	116.7	106.7	111.0	128.3	134.0	332.9	426.6	314.2	296.9	327.2
28.8	87.5°	27.4	37.5	31.7	28.8	28.8	80.7	165.8	131.2	181.6	121.1
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>
3276.1
2590.1
2353.7
2385.4
2466.1
2535.3
2574.2
2568.4
2505.0
2398.4
2283.0
2177.8
2089.9
2051.0
1996.2
1898.2
1718.1
1618.6
1595.5
1530.7
1455.7
1370.7
1310.2
1235.2
1225.1
1187.6
1130.0
1062.3
984.4
880.6
782.6
794.2
552.0
443.9
322.9
116.7
0.0

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