

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: P950073

Luminaire Tested: **GALN-SB4C-850-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950073
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-SB4C-850-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29242 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

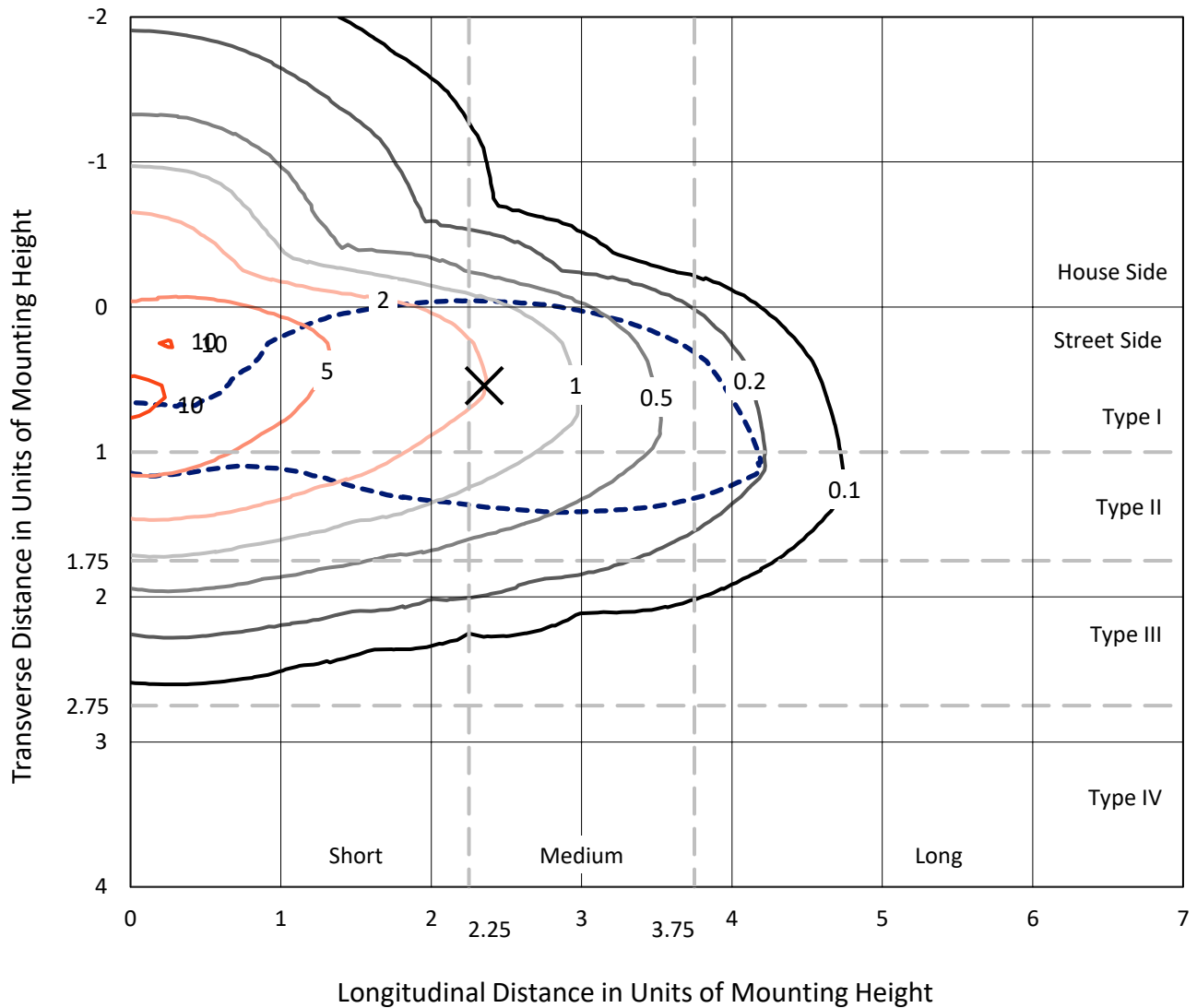
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

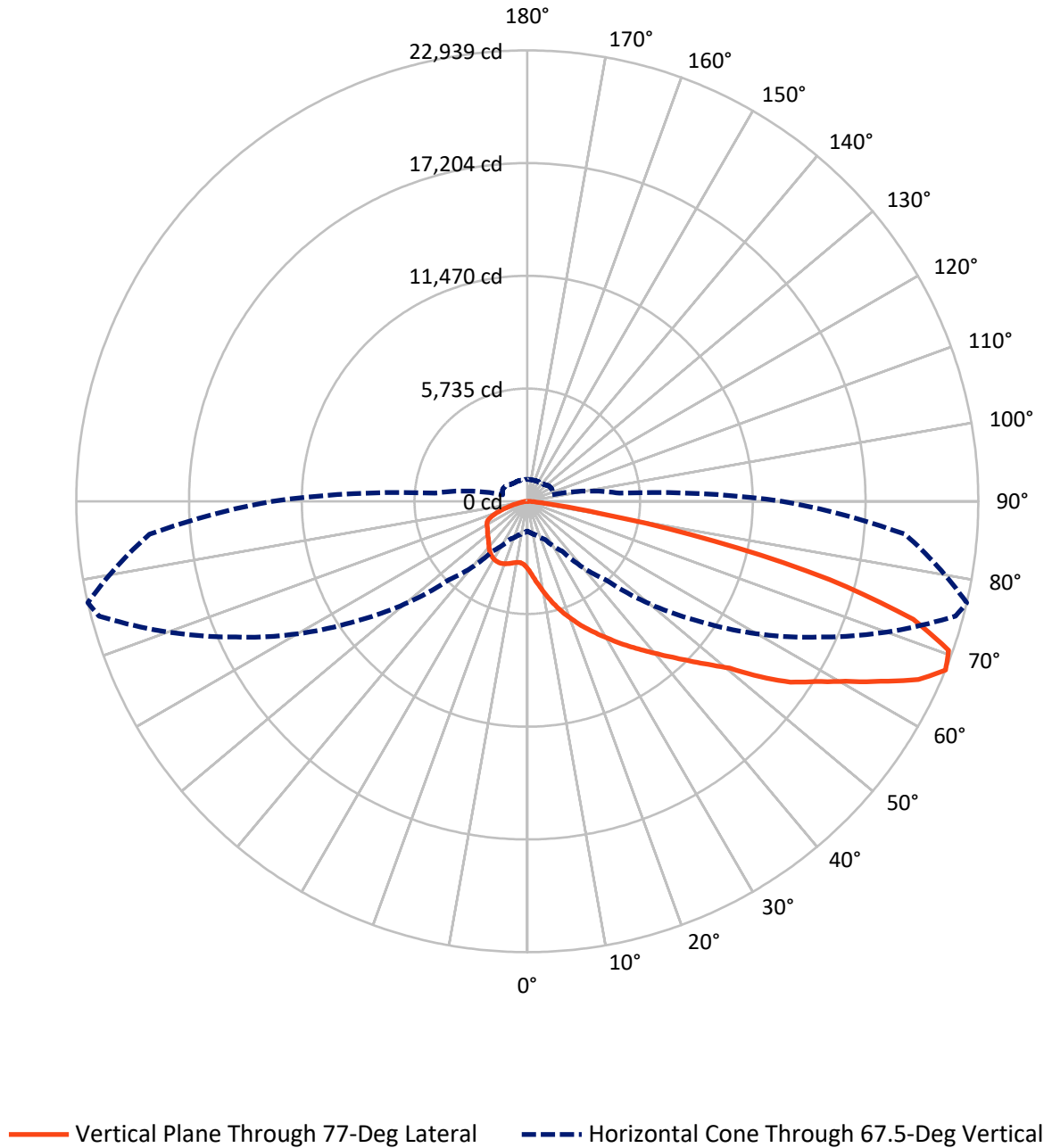
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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	5531.4	0.0	5531.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	23710.6	0.0	23710.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	29242.0	0.0	29242.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.8	1.3
10°-20°	1321.2	4.5
20°-30°	2494.6	8.5
30°-40°	4018.7	13.7
40°-50°	5496.8	18.8
50°-60°	6200.5	21.2
60°-70°	5787.4	19.8
70°-80°	3172.5	10.8
80°-90°	382.7	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°	29242.0	100.0
0°-180°	29242.0	100.0

Coefficient of Utilization



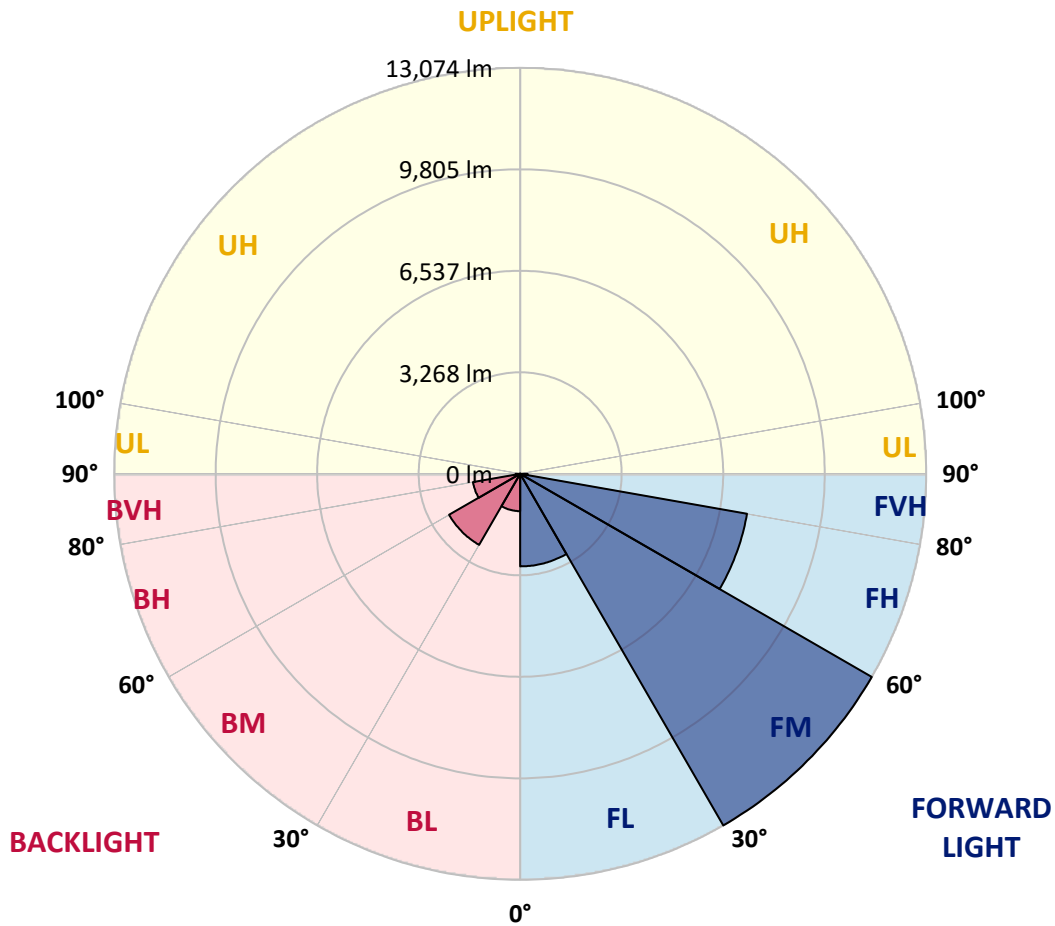
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2980.9	10.2			
FM (30°-60°)	13073.8	44.7			
FH (60°-80°)	7416.6	25.4			G3/7500
FVH (80°-90°)	239.3	0.8			G3/500
BL (0°-30°)	1202.7	4.1	B3/2500		
BM (30°-60°)	2642.2	9.0	B3/5000		
BH (60°-80°)	1543.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	143.4	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°	3431.0	3431.0	3431.0	3431.0	3431.0	3431.0	3431.0	3431.0	3431.0	3431.0
2.5°	4295.9	4326.1	4288.4	4288.4	4161.6	4095.2	3968.4	3871.8	3698.2	3668.0
5°	5077.8	5115.5	5062.7	5040.1	4890.6	4753.3	4540.4	4330.6	4021.2	3989.5
7.5°	5683.1	5731.4	5684.6	5660.5	5527.6	5373.7	5124.6	4831.8	4395.5	4333.7
10°	6176.7	6184.2	6169.1	6178.2	6074.1	5947.3	5692.2	5351.0	4806.1	4721.6
12.5°	6455.9	6490.7	6520.9	6575.2	6557.1	6478.6	6249.2	5841.6	5240.8	5132.2
15°	6587.3	6647.6	6715.6	6840.9	6942.0	6961.6	6786.5	6368.4	5683.1	5551.8
17.5°	6634.1	6691.4	6798.6	6979.7	7197.1	7343.5	7265.0	6880.1	6120.8	5969.9
20°	6871.0	6887.7	6952.6	7124.6	7360.1	7603.1	7662.0	7372.2	6554.1	6383.5
22.5°	7378.2	7345.0	7363.1	7441.6	7610.7	7846.2	7980.5	7806.9	6999.4	6803.1
25°	8216.0	8119.4	8022.8	7932.2	8018.2	8151.1	8303.5	8241.6	7465.8	7216.7
27.5°	9274.1	9156.4	8943.5	8646.2	8542.0	8588.8	8656.7	8644.7	7897.5	7645.4
30°	10315.6	10178.3	9924.7	9494.5	9219.8	9096.0	9044.7	9009.9	8366.9	8098.2
32.5°	11147.3	11038.7	10789.6	10308.1	9909.6	9698.3	9527.7	9403.9	8857.5	8588.8
35°	11874.9	11773.8	11488.5	10963.2	10530.0	10305.1	10081.7	9817.5	9367.7	9096.0
37.5°	12539.1	12437.9	12047.0	11500.6	11064.3	10908.8	10709.6	10261.3	9879.4	9622.8
40°	12958.7	12936.0	12570.8	11951.9	11499.0	11422.1	11355.6	10776.0	10446.9	10208.5
42.5°	13065.9	13115.7	12825.9	12317.2	11885.5	11823.6	11979.0	11358.7	11083.9	10856.0
45°	12807.7	12951.1	12760.9	12415.3	12160.2	12127.0	12531.5	11995.7	11788.9	11580.6
47.5°	12154.1	12397.2	12318.7	12270.4	12234.1	12377.5	13017.6	12671.9	12587.4	12406.2
50°	10834.9	11295.3	11432.6	11737.5	12087.7	12572.3	13459.8	13410.0	13520.2	13337.6
52.5°	8554.1	9188.1	9985.1	10748.8	11637.9	12507.4	13945.9	14469.7	14934.6	14834.9
55°	7061.2	7346.5	7959.4	9360.1	10765.4	12234.1	14164.7	15325.5	16338.4	16249.3
57.5°	5914.1	6169.1	6546.5	7716.3	9446.2	11613.8	14300.6	15847.8	17299.9	17290.8
60°	4683.8	4954.0	5340.5	6169.1	7905.0	10542.0	14270.4	16442.5	18527.1	18602.5
62.5°	3295.1	3592.5	4021.2	4794.0	6330.7	9153.3	13654.5	16872.7	19971.6	20176.9
65°	2166.1	2362.3	2685.3	3352.5	4717.1	7367.7	12478.7	16928.6	21517.3	21864.5
67.5°	1518.5	1594.0	1784.2	2146.4	3109.5	5649.9	10605.4	16350.4	22548.3	22939.2
70°	1184.9	1222.7	1319.3	1464.2	1953.2	3799.3	8126.9	14847.0	22327.9	22735.4
72.5°	1023.4	1059.6	1095.9	1114.0	1310.2	2345.7	5505.0	12413.8	20252.4	20528.6
75°	928.3	937.4	967.6	961.5	999.3	1521.5	3177.4	9044.7	15979.1	15884.0
77.5°	780.4	792.5	842.3	834.7	887.6	1040.0	1649.8	5837.1	10359.4	9713.4
80°	661.1	667.2	721.5	712.5	771.3	753.2	842.3	2975.1	4394.0	3722.3
82.5°	229.4	283.8	551.0	567.6	588.7	455.9	486.0	1213.6	1341.9	1027.9
85°	111.7	119.2	280.8	398.5	397.0	229.4	237.0	433.2	422.6	332.1
87.5°	18.1	22.6	33.2	155.5	123.8	60.4	81.5	84.5	87.5	75.5
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°
3431.0	0°	3431.0	3431.0	3431.0	3431.0	3431.0	3431.0	3431.0	3431.0	3431.0	3431.0
3553.3	2.5°	3468.7	3393.3	3234.8	3088.3	2973.6	2863.4	2801.6	2748.7	2718.5	2712.5
3719.3	5°	3562.3	3406.8	3118.5	2875.5	2717.0	2599.3	2537.4	2498.2	2478.5	2466.5
3942.7	7.5°	3696.7	3468.7	3058.2	2781.9	2615.9	2531.4	2499.7	2493.6	2492.1	2493.6
4212.9	10°	3882.3	3569.9	3052.1	2759.3	2620.4	2573.6	2572.1	2573.6	2579.7	2581.2
4507.2	12.5°	4083.1	3674.0	3076.3	2778.9	2677.8	2652.1	2647.6	2646.1	2650.6	2653.6
4804.6	15°	4302.0	3811.4	3117.0	2821.2	2741.2	2714.0	2709.5	2700.4	2698.9	2697.4
5117.1	17.5°	4526.9	3947.2	3162.3	2866.5	2781.9	2744.2	2727.6	2706.5	2689.9	2685.3
5440.1	20°	4754.8	4081.6	3194.0	2889.1	2784.9	2732.1	2698.9	2662.7	2634.0	2617.4
5766.1	22.5°	4997.8	4222.0	3213.6	2883.1	2757.8	2685.3	2624.9	2582.7	2538.9	2510.2
6095.2	25°	5234.8	4344.2	3212.1	2851.4	2704.9	2612.9	2535.9	2481.5	2421.2	2391.0
6434.8	27.5°	5462.7	4454.4	3174.4	2795.5	2629.5	2526.8	2434.8	2369.8	2311.0	2282.3
6777.5	30°	5698.2	4546.5	3115.5	2714.0	2540.4	2427.2	2326.1	2270.2	2217.4	2190.2
7139.7	32.5°	5932.2	4631.0	3032.5	2612.9	2437.8	2329.1	2229.5	2178.1	2146.4	2146.4
7529.2	35°	6179.7	4689.9	2922.3	2495.1	2329.1	2224.9	2146.4	2116.3	2113.2	2095.1
7941.3	37.5°	6440.9	4727.6	2788.0	2374.4	2221.9	2123.8	2099.7	2063.4	2033.2	1994.0
8394.1	40°	6715.6	4765.4	2626.5	2249.1	2108.7	2054.4	2043.8	1995.5	1909.5	1812.9
8907.3	42.5°	7049.2	4791.0	2458.9	2123.8	1989.5	1971.4	1986.4	1903.4	1766.1	1693.6
9526.2	45°	7435.6	4833.3	2304.9	2000.0	1867.2	1867.2	1930.6	1821.9	1708.7	1663.4
10232.6	47.5°	7936.7	4931.4	2161.5	1864.2	1754.0	1784.2	1806.8	1723.8	1660.4	1604.6
11093.0	50°	8661.3	5166.9	2013.6	1726.8	1667.9	1728.3	1696.6	1648.3	1574.4	1529.1
12460.6	52.5°	9560.9	5305.7	1882.3	1603.0	1594.0	1654.4	1609.1	1563.8	1507.9	1447.6
13497.6	55°	10173.7	5331.4	1772.1	1512.5	1544.2	1538.1	1521.5	1480.8	1450.6	1370.6
14521.0	57.5°	10859.0	5382.7	1681.5	1458.1	1512.5	1446.1	1440.0	1405.3	1366.1	1311.7
15769.3	60°	11678.7	5462.7	1603.0	1437.0	1485.3	1385.7	1355.5	1341.9	1302.7	1275.5
17271.2	62.5°	12572.3	5535.2	1523.0	1440.0	1453.6	1326.8	1281.5	1277.0	1252.8	1243.8
18681.0	65°	13182.1	5337.4	1423.4	1437.0	1403.8	1266.4	1209.1	1207.6	1187.9	1184.9
19292.4	67.5°	12969.3	4711.0	1289.1	1394.7	1352.5	1206.1	1142.7	1136.6	1111.0	1112.5
18653.9	70°	11903.6	3817.4	1103.4	1290.6	1289.1	1151.7	1073.2	1053.6	1018.9	1024.9
16219.1	72.5°	9905.1	2828.7	854.4	1117.0	1187.9	1101.9	993.2	961.5	917.7	923.8
11973.0	75°	7153.3	1923.0	621.9	849.8	1034.0	1043.0	914.7	860.4	807.6	816.6
6664.3	77.5°	3660.4	1089.8	457.4	585.7	812.1	947.9	843.8	771.3	759.3	843.8
1921.5	80°	1194.0	546.4	317.0	410.6	532.8	775.9	739.6	656.6	653.6	673.2
403.0	82.5°	356.2	230.9	203.8	270.2	294.3	594.7	638.5	496.6	427.2	449.8
134.3	85°	122.3	111.7	116.2	134.3	140.4	348.7	446.8	329.1	310.9	342.6
30.2	87.5°	28.7	39.2	33.2	30.2	30.2	84.5	173.6	137.4	190.2	126.8
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>
3431.0
2712.5
2464.9
2498.2
2582.7
2655.1
2695.9
2689.9
2623.4
2511.7
2391.0
2280.8
2188.7
2148.0
2090.6
1988.0
1799.3
1695.1
1671.0
1603.0
1524.6
1435.5
1372.1
1293.6
1283.0
1243.8
1183.4
<i>1112.5</i>
1031.0
922.3
819.6
831.7
578.1
464.9
338.1
122.3
0.0

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