

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: P949947

Luminaire Tested: **GALN-SB4C-750-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949947
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-750-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 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: 32344 lumens
Efficiency: N/A
Efficacy: 161.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

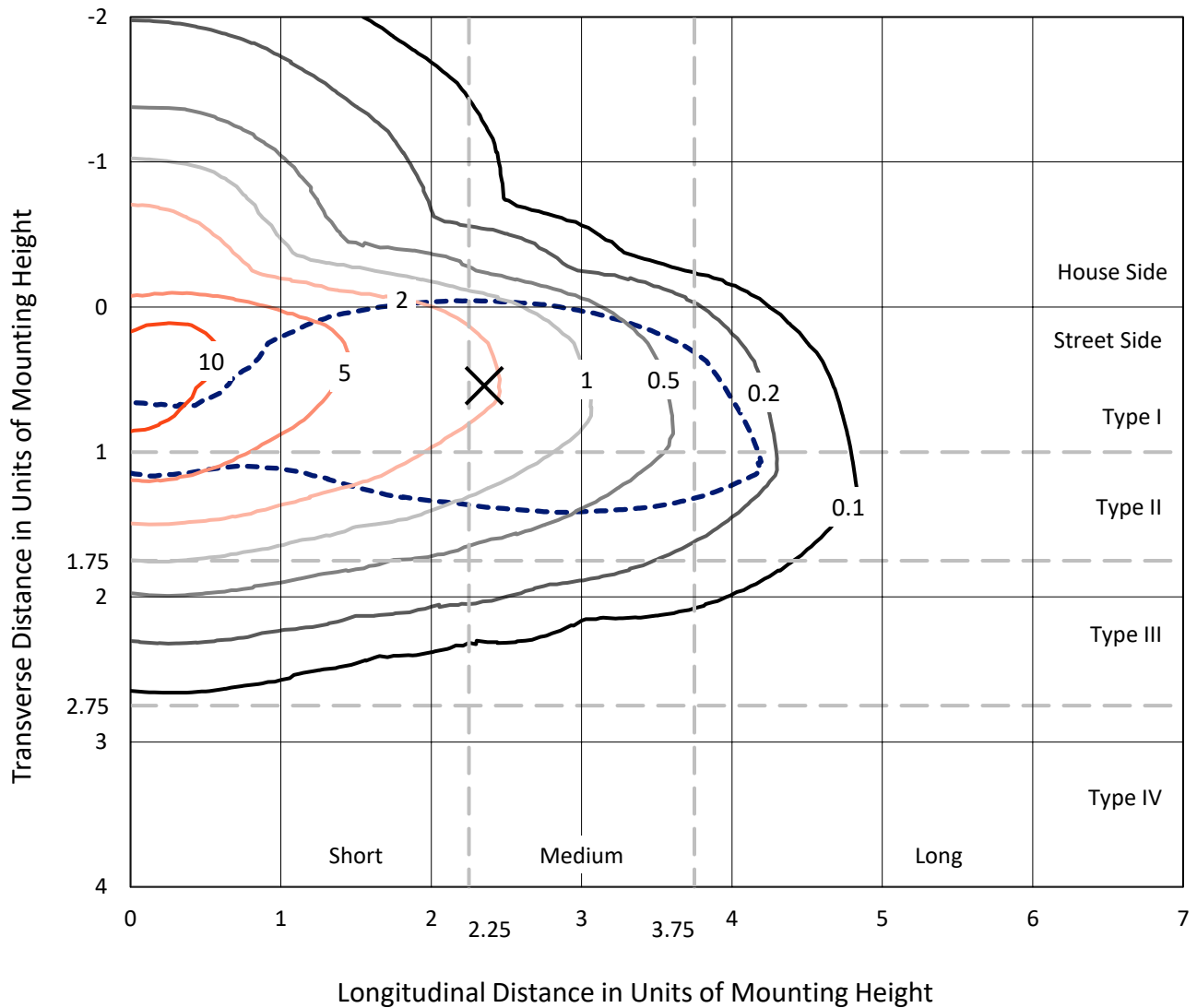
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949947
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Iso-Footcandle Lines of Horizontal Illumination

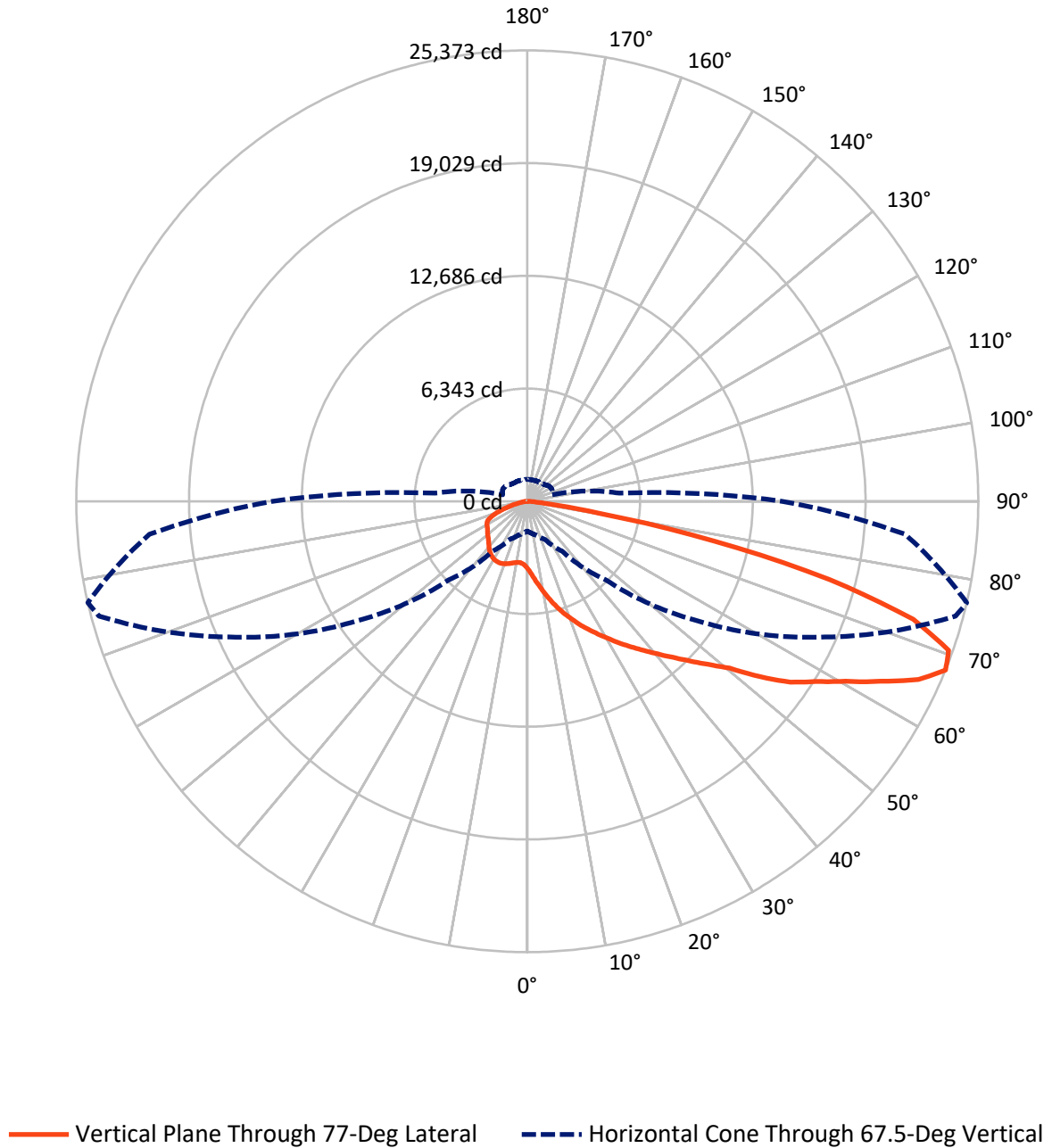
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P949947
CATALOG NUMBER: GALN-SB4C-750-U-T2R

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6118.2	0.0	6118.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	26225.8	0.0	26225.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	32344.0	0.0	32344.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.8	1.3
10°-20°	1461.4	4.5
20°-30°	2759.2	8.5
30°-40°	4445.0	13.7
40°-50°	6079.9	18.8
50°-60°	6858.2	21.2
60°-70°	6401.3	19.8
70°-80°	3509.0	10.8
80°-90°	423.3	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°	32344.0	100.0
0°-180°	32344.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949947

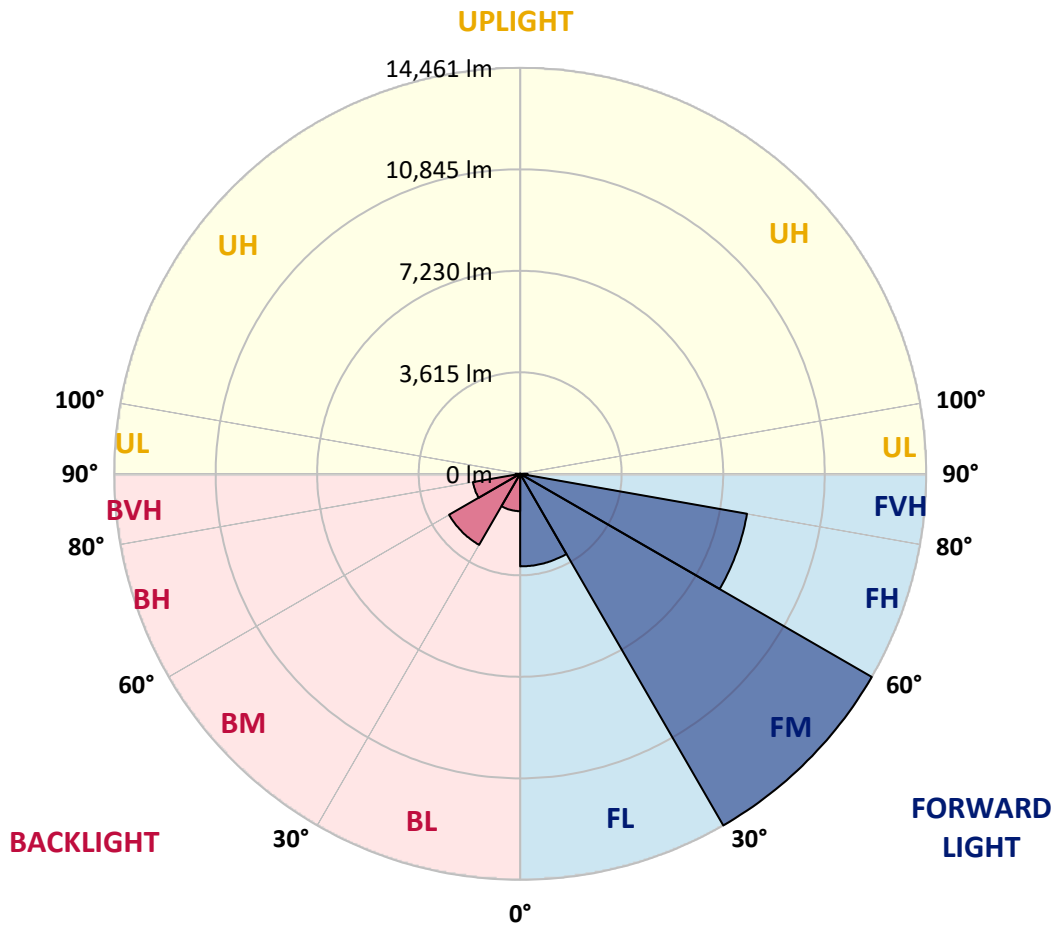
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3297.1	10.2			
FM (30°-60°)	14460.6	44.7			
FH (60°-80°)	8203.4	25.4			G4/12000
FVH (80°-90°)	264.7	0.8			G3/500
BL (0°-30°)	1330.2	4.1	B3/2500		
BM (30°-60°)	2922.5	9.0	B3/5000		
BH (60°-80°)	1706.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	158.6	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-G4

Type II Medium



REPORT NUMBER: P949947
 CATALOG NUMBER: GALN-SB4C-750-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3795.0	3795.0	3795.0	3795.0	3795.0	3795.0	3795.0	3795.0	3795.0	3795.0
2.5°	4751.6	4785.0	4743.3	4743.3	4603.0	4529.6	4389.3	4282.5	4090.5	4057.1
5°	5616.5	5658.2	5599.8	5574.7	5409.4	5257.5	5022.1	4790.0	4447.8	4412.7
7.5°	6286.0	6339.4	6287.6	6260.9	6114.0	5943.7	5668.2	5344.3	4861.8	4793.4
10°	6831.9	6840.3	6823.6	6833.6	6718.4	6578.1	6296.0	5918.7	5315.9	5222.4
12.5°	7140.8	7179.2	7212.6	7272.7	7252.7	7165.8	6912.1	6461.3	5796.8	5676.6
15°	7286.0	7352.8	7428.0	7566.5	7678.4	7700.1	7506.4	7044.0	6286.0	6140.7
17.5°	7337.8	7401.2	7519.8	7720.1	7960.6	8122.5	8035.7	7609.9	6770.1	6603.2
20°	7599.9	7618.3	7690.1	7880.4	8140.9	8409.7	8474.8	8154.2	7249.3	7060.7
22.5°	8160.9	8124.2	8144.2	8231.0	8418.0	8678.5	8827.1	8635.1	7741.8	7524.8
25°	9087.5	8980.7	8873.8	8773.6	8868.8	9015.7	9184.4	9115.9	8257.7	7982.3
27.5°	10257.9	10127.7	9892.3	9563.4	9448.2	9499.9	9575.0	9561.7	8735.2	8456.4
30°	11409.9	11258.0	10977.5	10501.7	10197.8	10060.9	10004.1	9965.7	9254.5	8957.3
32.5°	12329.9	12209.6	11934.2	11401.6	10960.8	10727.1	10538.4	10401.5	9797.1	9499.9
35°	13134.6	13022.7	12707.2	12126.2	11647.0	11398.2	11151.1	10859.0	10361.4	10060.9
37.5°	13869.2	13757.3	13324.9	12720.5	12238.0	12066.1	11845.7	11349.8	10927.4	10643.6
40°	14333.3	14308.3	13904.3	13219.7	12718.9	12633.7	12560.3	11919.1	11555.2	11291.4
42.5°	14451.9	14507.0	14186.4	13623.8	13146.3	13077.8	13249.8	12563.6	12259.7	12007.6
45°	14166.4	14325.0	14114.6	13732.3	13450.1	13413.4	13860.9	13268.2	13039.4	12809.0
47.5°	13443.5	13712.3	13625.4	13572.0	13531.9	13690.6	14398.5	14016.1	13922.6	13722.3
50°	11984.2	12493.5	12645.4	12982.7	13370.0	13905.9	14887.6	14832.6	14954.4	14752.4
52.5°	9461.5	10162.7	11044.3	11889.1	12872.5	13834.1	15425.3	16004.6	16518.8	16408.6
55°	7810.3	8125.8	8803.7	10353.1	11907.4	13531.9	15667.3	16951.2	18071.5	17973.0
57.5°	6541.4	6823.6	7241.0	8534.9	10448.2	12845.8	15817.6	17528.9	19135.1	19125.0
60°	5180.7	5479.6	5907.0	6823.6	8743.6	11660.3	15784.2	18186.7	20492.4	20575.9
62.5°	3644.7	3973.6	4447.8	5302.6	7002.2	10124.3	15103.0	18662.6	22090.2	22317.3
65°	2395.8	2612.9	2970.2	3708.1	5217.4	8149.2	13802.4	18724.3	23799.9	24183.9
67.5°	1679.6	1763.1	1973.4	2374.1	3439.3	6249.2	11730.5	18084.9	24940.2	25372.6
70°	1310.6	1352.4	1459.2	1619.5	2160.4	4202.3	8989.0	16422.0	24696.4	25147.2
72.5°	1132.0	1172.0	1212.1	1232.2	1449.2	2594.5	6089.0	13730.6	22400.8	22706.3
75°	1026.8	1036.8	1070.2	1063.5	1105.3	1682.9	3514.5	10004.1	17674.2	17569.0
77.5°	863.2	876.5	931.6	923.3	981.7	1150.3	1824.9	6456.3	11458.3	10743.7
80°	731.3	738.0	798.1	788.0	853.2	833.1	931.6	3290.7	4860.1	4117.2
82.5°	253.8	313.9	609.4	627.8	651.1	504.2	537.6	1342.3	1484.3	1137.0
85°	123.5	131.9	310.5	440.8	439.1	253.8	262.1	479.2	467.5	367.3
87.5°	20.0	25.0	36.7	172.0	136.9	66.8	90.2	93.5	96.8	83.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949947
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3795.0	0°	3795.0	3795.0	3795.0	3795.0	3795.0	3795.0	3795.0	3795.0	3795.0	3795.0
3930.2	2.5°	3836.7	3753.2	3577.9	3416.0	3289.1	3167.2	3098.7	3040.3	3006.9	3000.2
4113.8	5°	3940.2	3768.2	3449.4	3180.6	3005.2	2875.0	2806.6	2763.2	2741.5	2728.1
4360.9	7.5°	4088.8	3836.7	3382.6	3077.0	2893.4	2799.9	2764.8	2758.1	2756.5	2758.1
4659.8	10°	4294.2	3948.6	3375.9	3052.0	2898.4	2846.6	2845.0	2846.6	2853.3	2855.0
4985.4	12.5°	4516.2	4063.8	3402.6	3073.7	2961.8	2933.5	2928.4	2926.8	2931.8	2935.1
5314.3	15°	4758.3	4215.7	3447.7	3120.4	3032.0	3001.9	2996.9	2986.9	2985.2	2983.5
5659.9	17.5°	5007.1	4366.0	3497.8	3170.5	3077.0	3035.3	3016.9	2993.6	2975.2	2970.2
6017.2	20°	5259.2	4514.5	3532.8	3195.6	3080.4	3021.9	2985.2	2945.1	2913.4	2895.1
6377.8	22.5°	5528.0	4669.8	3554.5	3188.9	3050.3	2970.2	2903.4	2856.7	2808.2	2776.5
6741.8	25°	5790.1	4805.1	3552.9	3153.8	2991.9	2890.0	2804.9	2744.8	2678.0	2644.6
7117.4	27.5°	6042.2	4926.9	3511.1	3092.1	2908.4	2794.9	2693.0	2621.2	2556.1	2524.4
7496.4	30°	6302.7	5028.8	3446.0	3001.9	2809.9	2684.7	2572.8	2511.0	2452.6	2422.6
7897.1	32.5°	6561.5	5122.3	3354.2	2890.0	2696.4	2576.2	2466.0	2409.2	2374.1	2374.1
8327.9	35°	6835.3	5187.4	3232.3	2759.8	2576.2	2461.0	2374.1	2340.8	2337.4	2317.4
8783.7	37.5°	7124.1	5229.1	3083.7	2626.2	2457.6	2349.1	2322.4	2282.3	2248.9	2205.5
9284.5	40°	7428.0	5270.9	2905.1	2487.7	2332.4	2272.3	2260.6	2207.2	2112.0	2005.2
9852.2	42.5°	7796.9	5299.2	2719.7	2349.1	2200.5	2180.5	2197.2	2105.3	1953.4	1873.3
10536.7	45°	8224.4	5346.0	2549.4	2212.2	2065.3	2065.3	2135.4	2015.2	1890.0	1839.9
11318.1	47.5°	8778.7	5454.5	2390.8	2061.9	1940.1	1973.4	1998.5	1906.7	1836.5	1774.8
12269.7	50°	9580.1	5715.0	2227.2	1910.0	1844.9	1911.7	1876.6	1823.2	1741.4	1691.3
13782.4	52.5°	10575.1	5868.6	2082.0	1773.1	1763.1	1829.9	1779.8	1729.7	1667.9	1601.1
14929.4	55°	11253.0	5897.0	1960.1	1672.9	1708.0	1701.3	1682.9	1637.9	1604.5	1516.0
16061.4	57.5°	12011.0	5953.7	1859.9	1612.8	1672.9	1599.5	1592.8	1554.4	1511.0	1450.9
17442.1	60°	12917.5	6042.2	1773.1	1589.4	1642.9	1532.7	1499.3	1484.3	1440.8	1410.8
19103.3	62.5°	13905.9	6122.4	1684.6	1592.8	1607.8	1467.6	1417.5	1412.5	1385.8	1375.7
20662.7	65°	14580.4	5903.6	1574.4	1589.4	1552.7	1400.8	1337.3	1335.7	1314.0	1310.6
21338.9	67.5°	14345.0	5210.8	1425.8	1542.7	1495.9	1334.0	1263.9	1257.2	1228.8	1230.5
20632.7	70°	13166.3	4222.4	1220.5	1427.5	1425.8	1273.9	1187.1	1165.4	1127.0	1133.6
17939.6	72.5°	10955.8	3128.8	945.0	1235.5	1314.0	1218.8	1098.6	1063.5	1015.1	1021.8
13243.1	75°	7912.1	2127.0	687.9	940.0	1143.7	1153.7	1011.8	951.7	893.2	903.2
7371.2	77.5°	4048.7	1205.4	505.9	647.8	898.2	1048.5	933.3	853.2	839.8	933.3
2125.4	80°	1320.6	604.4	350.6	454.1	589.4	858.2	818.1	726.3	722.9	744.6
445.8	82.5°	394.0	255.4	225.4	298.9	325.6	657.8	706.2	549.3	472.5	497.5
148.6	85°	135.2	123.5	128.6	148.6	155.3	385.7	494.2	364.0	343.9	379.0
33.4	87.5°	31.7	43.4	36.7	33.4	33.4	93.5	192.0	151.9	210.4	140.2
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>
3795.0
3000.2
2726.4
2763.2
2856.7
2936.8
2981.9
2975.2
2901.7
2778.2
2644.6
2522.7
2420.9
2375.8
2312.4
2198.8
1990.1
1874.9
1848.2
1773.1
1686.3
1587.8
1517.6
1430.8
1419.1
1375.7
1309.0
1230.5
1140.3
1020.1
906.6
919.9
639.4
514.2
374.0
135.2
0.0

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