

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: P949905

Luminaire Tested: **GALN-SB4C-735-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949905
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-735-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30571 lumens
Efficiency: N/A
Efficacy: 152.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

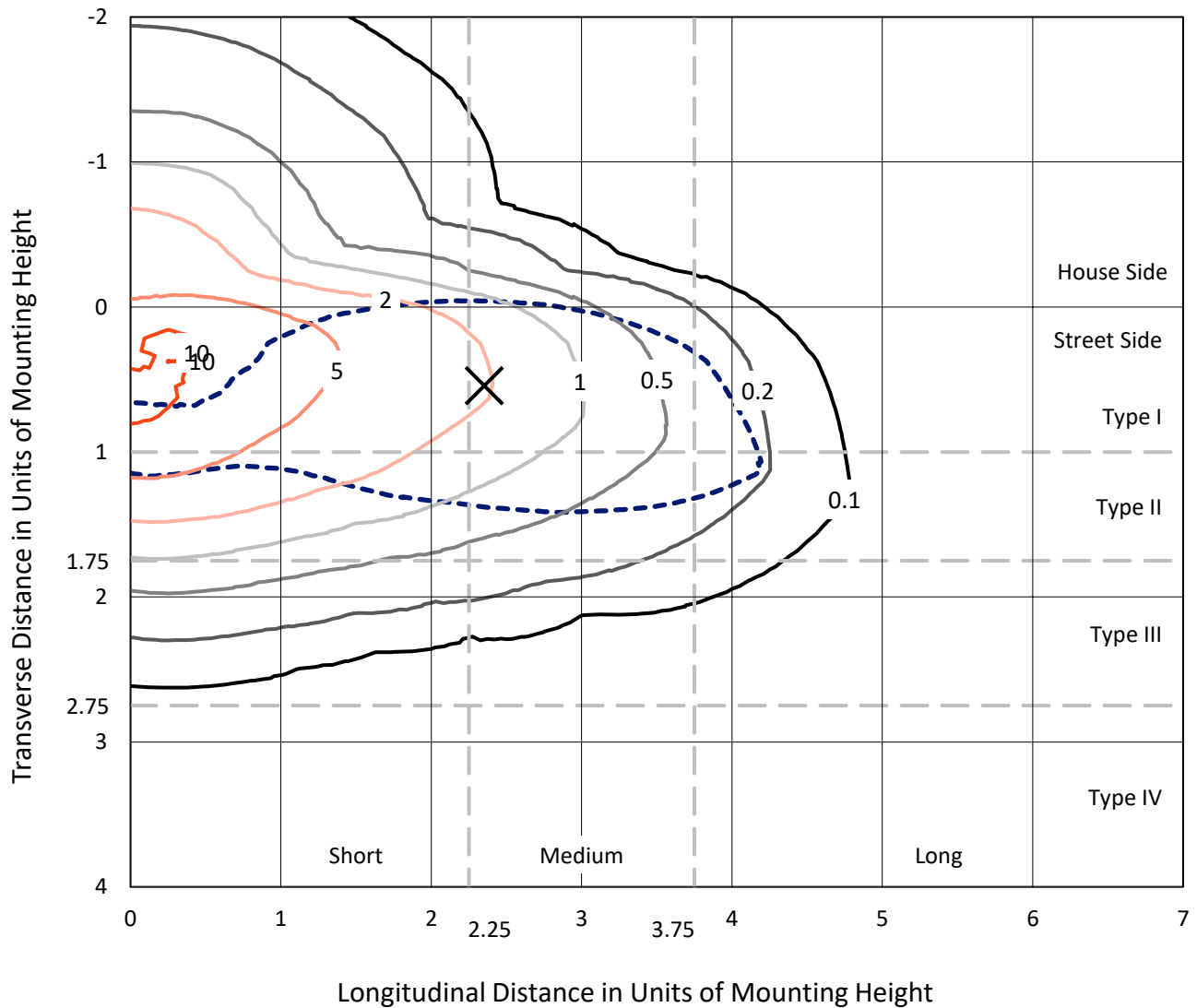
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

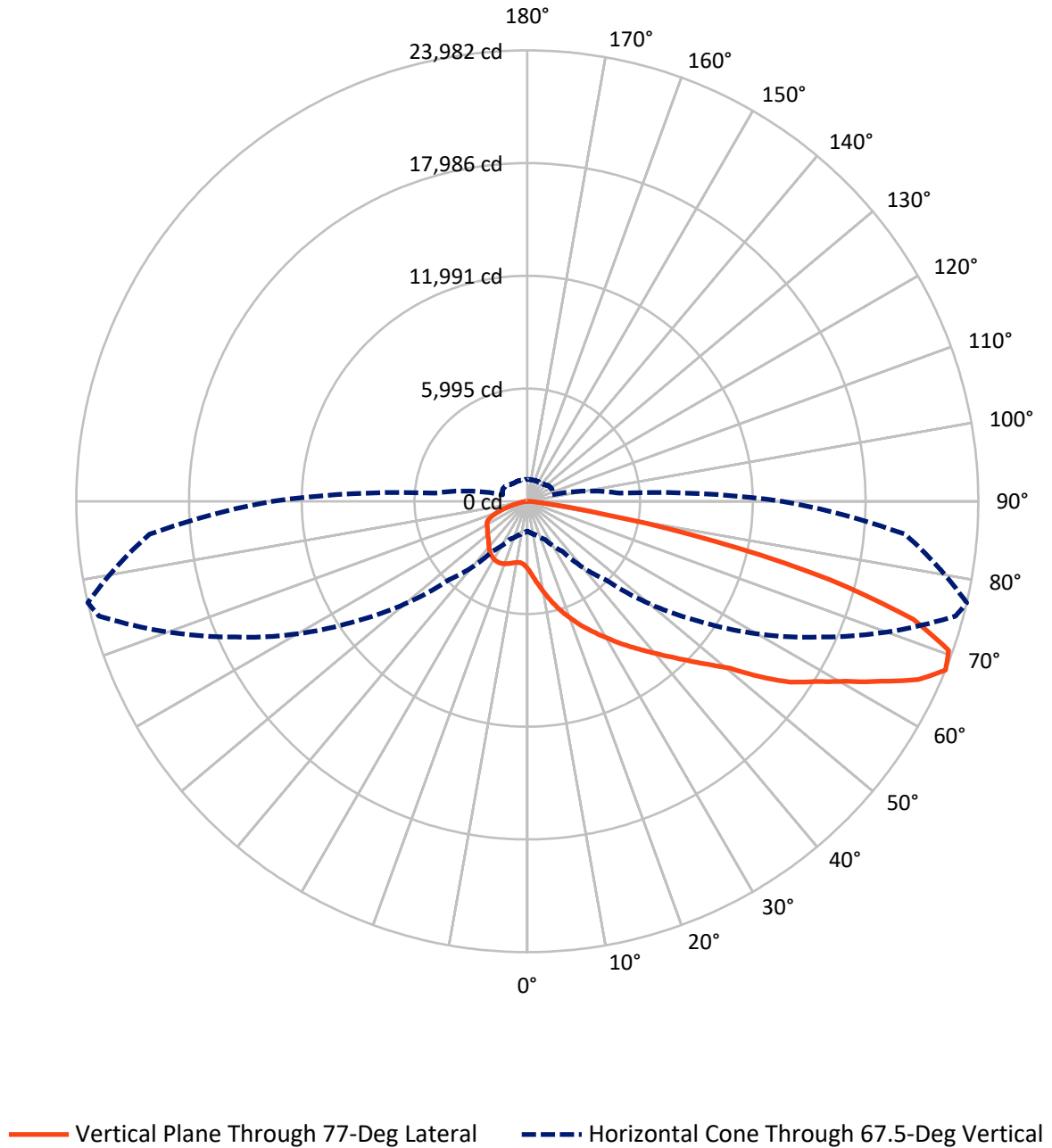
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	5782.8	0.0	5782.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	24788.2	0.0	24788.2
	% Fixture	81.1	0.0	81.1
Total	Lumens	30571.0	0.0	30571.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.5	1.3
10°-20°	1381.2	4.5
20°-30°	2607.9	8.5
30°-40°	4201.3	13.7
40°-50°	5746.7	18.8
50°-60°	6482.3	21.2
60°-70°	6050.4	19.8
70°-80°	3316.6	10.8
80°-90°	400.1	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°	30571.0	100.0
0°-180°	30571.0	100.0



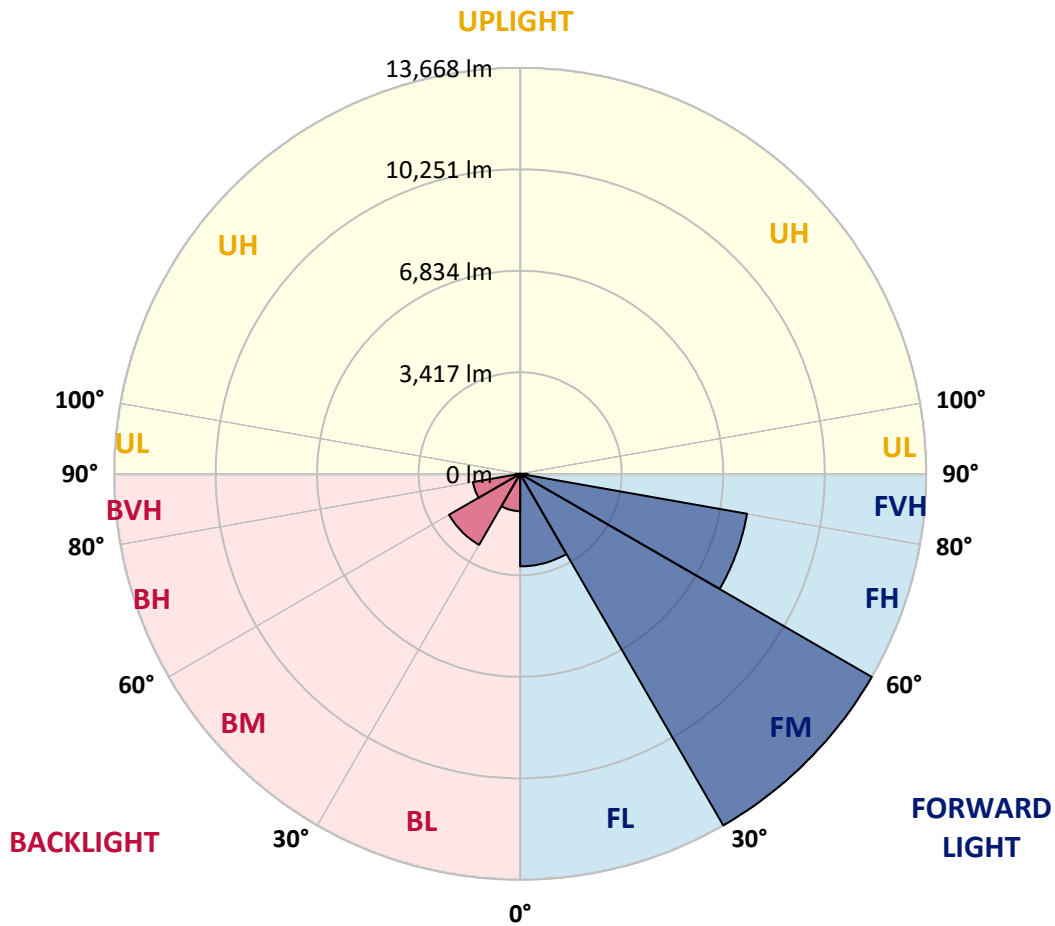
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3116.3	10.2			
FM (30°-60°)	13668.0	44.7			
FH (60°-80°)	7753.7	25.4			G4/12000
FVH (80°-90°)	250.2	0.8			G3/500
BL (0°-30°)	1257.3	4.1	B3/2500		
BM (30°-60°)	2762.3	9.0	B3/5000		
BH (60°-80°)	1613.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	149.9	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3586.9	3586.9	3586.9	3586.9	3586.9	3586.9	3586.9	3586.9	3586.9	3586.9
2.5°	4491.2	4522.7	4483.3	4483.3	4350.7	4281.3	4148.7	4047.7	3866.2	3834.7
5°	5308.6	5348.0	5292.8	5269.1	5112.9	4969.3	4746.8	4527.5	4203.9	4170.8
7.5°	5941.4	5991.9	5943.0	5917.7	5778.9	5617.9	5357.5	5051.4	4595.3	4530.6
10°	6457.4	6465.3	6449.5	6459.0	6350.1	6217.6	5950.9	5594.2	5024.5	4936.2
12.5°	6749.4	6785.7	6817.2	6874.0	6855.1	6773.0	6533.2	6107.1	5479.0	5365.4
15°	6886.6	6949.8	7020.8	7151.8	7257.5	7278.0	7095.0	6657.8	5941.4	5804.1
17.5°	6935.6	6995.5	7107.6	7296.9	7524.2	7677.3	7595.2	7192.8	6399.0	6241.2
20°	7183.3	7200.7	7268.5	7448.4	7694.6	7948.7	8010.2	7707.2	6851.9	6673.6
22.5°	7713.6	7678.8	7697.8	7779.8	7956.6	8202.8	8343.2	8161.7	7317.5	7112.3
25°	8589.4	8488.4	8387.4	8292.7	8382.6	8521.5	8680.9	8616.2	7805.1	7544.7
27.5°	9695.6	9572.5	9350.0	9039.1	8930.2	8979.2	9050.2	9037.5	8256.4	7992.9
30°	10784.5	10640.9	10375.7	9926.0	9638.8	9509.4	9455.7	9419.4	8747.2	8466.3
32.5°	11654.0	11540.3	11280.0	10776.6	10360.0	10139.0	9960.7	9831.3	9260.1	8979.2
35°	12414.6	12308.9	12010.6	11461.4	11008.5	10773.4	10539.9	10263.7	9793.4	9509.4
37.5°	13108.9	13003.2	12594.5	12023.2	11567.2	11404.6	11196.3	10727.6	10328.4	10060.1
40°	13547.6	13524.0	13142.1	12495.1	12021.7	11941.2	11871.7	11265.8	10921.7	10672.4
42.5°	13659.7	13711.8	13408.8	12877.0	12425.6	12360.9	12523.5	11874.9	11587.7	11349.4
45°	13389.8	13539.7	13340.9	12979.5	12712.8	12678.1	13101.0	12540.8	12324.6	12106.9
47.5°	12706.5	12960.6	12878.5	12828.0	12790.2	12940.1	13609.2	13247.8	13159.4	12970.1
50°	11327.3	11808.6	11952.2	12271.0	12637.1	13143.7	14071.6	14019.5	14134.7	13943.7
52.5°	8942.9	9605.6	10438.9	11237.4	12166.8	13075.8	14579.7	15127.3	15613.3	15509.2
55°	7382.2	7680.4	8321.1	9785.5	11254.7	12790.2	14808.5	16022.0	17080.9	16987.8
57.5°	6182.8	6449.5	6844.0	8067.0	9875.5	12141.6	14950.5	16568.0	18086.1	18076.7
60°	4896.7	5179.2	5583.2	6449.5	8264.3	11021.2	14919.0	17189.8	19369.1	19448.0
62.5°	3444.9	3755.8	4203.9	5011.9	6618.4	9569.3	14275.1	17639.5	20879.3	21093.9
65°	2264.5	2469.7	2807.4	3504.9	4931.4	7702.5	13045.8	17697.9	22495.2	22858.2
67.5°	1587.5	1666.4	1865.3	2244.0	3250.8	5906.7	11087.4	17093.5	23573.0	23981.8
70°	1238.8	1278.2	1379.2	1530.7	2042.0	3972.0	8496.3	15521.8	23342.6	23768.7
72.5°	1069.9	1107.8	1145.7	1164.6	1369.8	2452.3	5755.2	12978.0	21172.8	21461.6
75°	970.5	980.0	1011.5	1005.2	1044.7	1590.7	3321.8	9455.7	16705.3	16605.9
77.5°	815.9	828.5	880.6	872.7	927.9	1087.3	1724.8	6102.4	10830.2	10154.8
80°	691.2	697.5	754.3	744.8	806.4	787.5	880.6	3110.4	4593.7	3891.5
82.5°	239.9	296.7	576.0	593.4	615.4	476.6	508.1	1268.8	1402.9	1074.7
85°	116.8	124.7	293.5	416.6	415.0	239.9	247.8	452.9	441.9	347.2
87.5°	18.9	23.7	34.7	162.5	129.4	63.1	85.2	88.4	91.5	78.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949905
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3586.9	0°	3586.9	3586.9	3586.9	3586.9	3586.9	3586.9	3586.9	3586.9	3586.9	3586.9
3714.8	2.5°	3626.4	3547.5	3381.8	3228.7	3108.8	2993.6	2928.9	2873.6	2842.1	2835.8
3888.3	5°	3724.2	3561.7	3260.3	3006.2	2840.5	2717.4	2652.7	2611.7	2591.2	2578.5
4121.9	7.5°	3864.7	3626.4	3197.1	2908.4	2734.8	2646.4	2613.3	2607.0	2605.4	2607.0
4404.4	10°	4058.8	3732.1	3190.8	2884.7	2739.5	2690.6	2689.0	2690.6	2696.9	2698.5
4712.1	12.5°	4268.6	3841.0	3216.1	2905.2	2799.5	2772.6	2767.9	2766.3	2771.1	2774.2
5023.0	15°	4497.5	3984.6	3258.7	2949.4	2865.8	2837.4	2832.6	2823.1	2821.6	2820.0
5349.6	17.5°	4732.6	4126.6	3306.0	2996.7	2908.4	2868.9	2851.6	2829.5	2812.1	2807.4
5687.3	20°	4970.9	4267.1	3339.2	3020.4	2911.5	2856.3	2821.6	2783.7	2753.7	2736.4
6028.2	22.5°	5225.0	4413.8	3359.7	3014.1	2883.1	2807.4	2744.2	2700.1	2654.3	2624.3
6372.2	25°	5472.7	4541.7	3358.1	2981.0	2827.9	2731.6	2651.1	2594.3	2531.2	2499.6
6727.3	27.5°	5711.0	4656.9	3318.7	2922.6	2749.0	2641.7	2545.4	2477.6	2416.0	2386.0
7085.5	30°	5957.2	4753.1	3257.1	2837.4	2655.9	2537.5	2431.8	2373.4	2318.2	2289.8
7464.2	32.5°	6201.8	4841.5	3170.3	2731.6	2548.6	2434.9	2330.8	2277.1	2244.0	2244.0
7871.4	35°	6460.6	4903.0	3055.1	2608.5	2434.9	2326.1	2244.0	2212.4	2209.3	2190.3
8302.2	37.5°	6733.6	4942.5	2914.7	2482.3	2322.9	2220.3	2195.1	2157.2	2125.6	2084.6
8775.6	40°	7020.8	4981.9	2745.8	2351.3	2204.5	2147.7	2136.7	2086.2	1996.2	1895.2
9312.1	42.5°	7369.5	5008.8	2570.7	2220.3	2079.9	2060.9	2076.7	1989.9	1846.3	1770.6
9959.1	45°	7773.5	5052.9	2409.7	2090.9	1952.1	1952.1	2018.3	1904.7	1786.4	1739.0
10697.7	47.5°	8297.4	5155.5	2259.8	1948.9	1833.7	1865.3	1888.9	1802.1	1735.9	1677.5
11597.2	50°	9054.9	5401.7	2105.1	1805.3	1743.8	1806.9	1773.7	1723.2	1645.9	1598.6
13026.9	52.5°	9995.4	5546.9	1967.8	1675.9	1666.4	1729.6	1682.2	1634.9	1576.5	1513.4
14111.0	55°	10636.1	5573.7	1852.6	1581.2	1614.4	1608.0	1590.7	1548.1	1516.5	1432.9
15180.9	57.5°	11352.6	5627.4	1758.0	1524.4	1581.2	1511.8	1505.5	1469.2	1428.1	1371.3
16486.0	60°	12209.4	5711.0	1675.9	1502.3	1552.8	1448.7	1417.1	1402.9	1361.9	1333.5
18056.2	62.5°	13143.7	5786.7	1592.3	1505.5	1519.7	1387.1	1339.8	1335.0	1309.8	1300.3
19530.1	65°	13781.2	5580.0	1488.1	1502.3	1467.6	1324.0	1264.0	1262.4	1241.9	1238.8
20169.2	67.5°	13558.7	4925.1	1347.7	1458.1	1413.9	1260.9	1194.6	1188.3	1161.5	1163.0
19501.7	70°	12444.6	3990.9	1153.6	1349.2	1347.7	1204.1	1122.0	1101.5	1065.2	1071.5
16956.2	72.5°	10355.2	2957.3	893.2	1167.8	1241.9	1152.0	1038.4	1005.2	959.5	965.8
12517.2	75°	7478.4	2010.4	650.2	888.4	1081.0	1090.4	956.3	899.5	844.3	853.7
6967.1	77.5°	3826.8	1139.4	478.2	612.3	849.0	991.0	882.1	806.4	793.8	882.1
2008.9	80°	1248.2	571.3	331.4	429.2	557.1	811.1	773.2	686.5	683.3	703.8
421.3	82.5°	372.4	241.4	213.0	282.5	307.7	621.8	667.5	519.2	446.6	470.3
140.4	85°	127.8	116.8	121.5	140.4	146.8	364.5	467.1	344.0	325.1	358.2
31.6	87.5°	30.0	41.0	34.7	31.6	31.6	88.4	181.5	143.6	198.8	132.6
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>
3586.9
2835.8
2577.0
2611.7
2700.1
2775.8
2818.4
2812.1
2742.7
2625.9
2499.6
2384.4
2288.2
2245.6
2185.6
2078.3
1881.0
1772.2
1746.9
1675.9
1593.8
1500.7
1434.5
1352.4
1341.4
1300.3
1237.2
<i>1163.0</i>
1077.8
964.2
856.9
869.5
604.4
486.0
353.5
127.8
0.0

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