

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: P952488

Luminaire Tested: **GALN-SB6B-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952488
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-SB6B-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30244 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

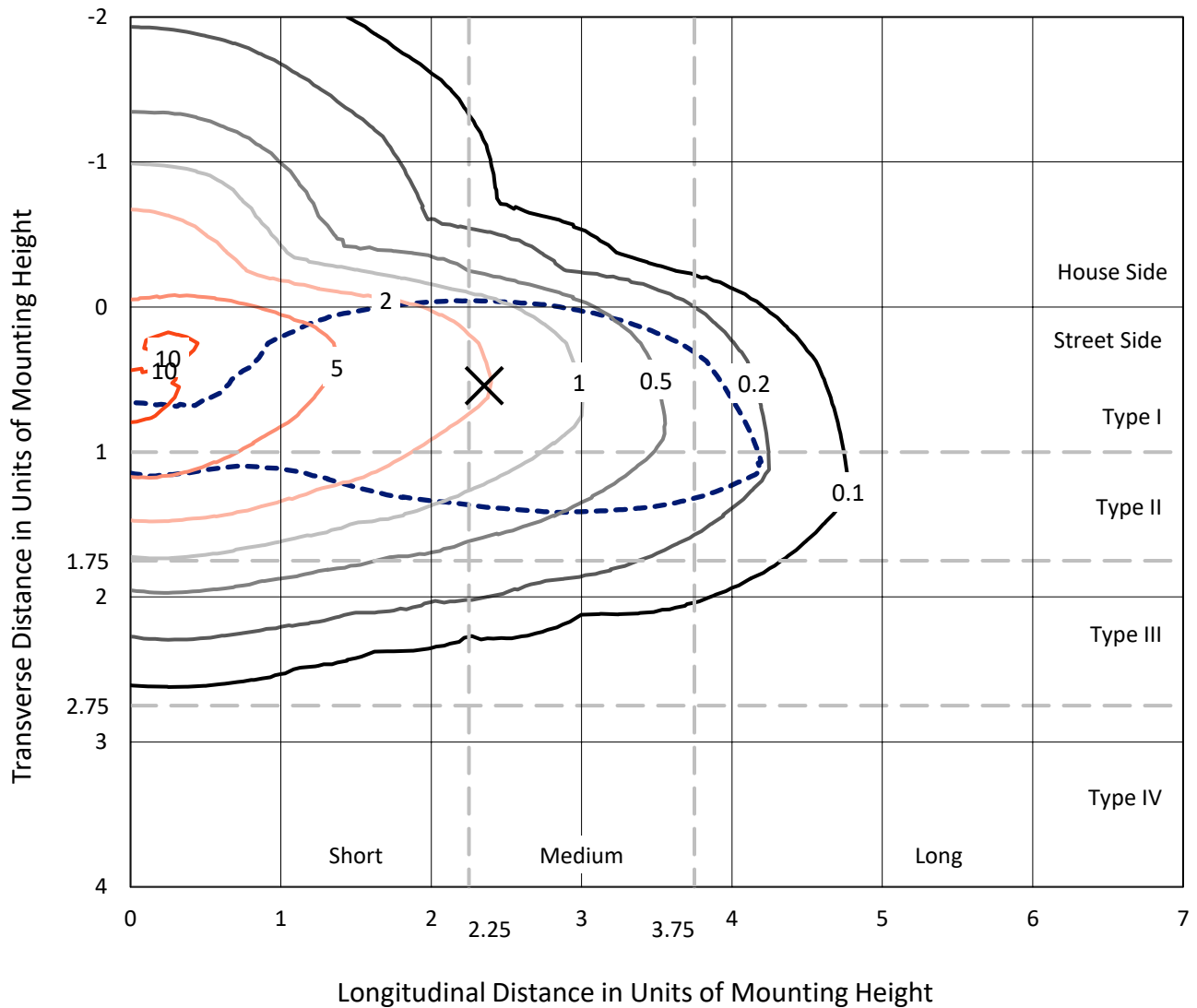
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

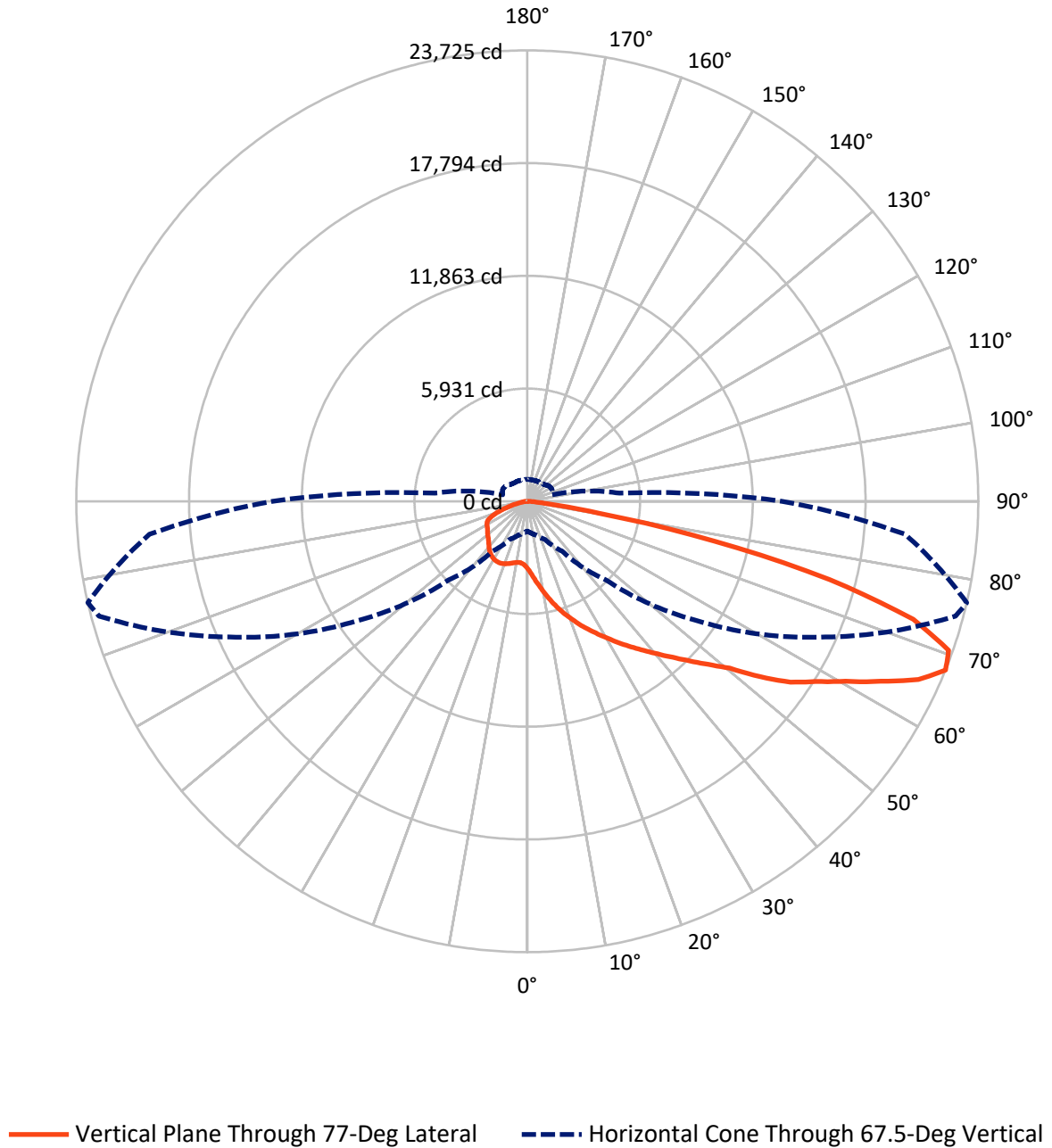
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	5720.9	0.0	5720.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	24523.0	0.0	24523.0
	% Fixture	81.1	0.0	81.1
Total	Lumens	30244.0	0.0	30244.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.4	1.3
10°-20°	1366.5	4.5
20°-30°	2580.0	8.5
30°-40°	4156.4	13.7
40°-50°	5685.2	18.8
50°-60°	6412.9	21.2
60°-70°	5985.7	19.8
70°-80°	3281.2	10.8
80°-90°	395.8	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°	30244.0	100.0
0°-180°	30244.0	100.0



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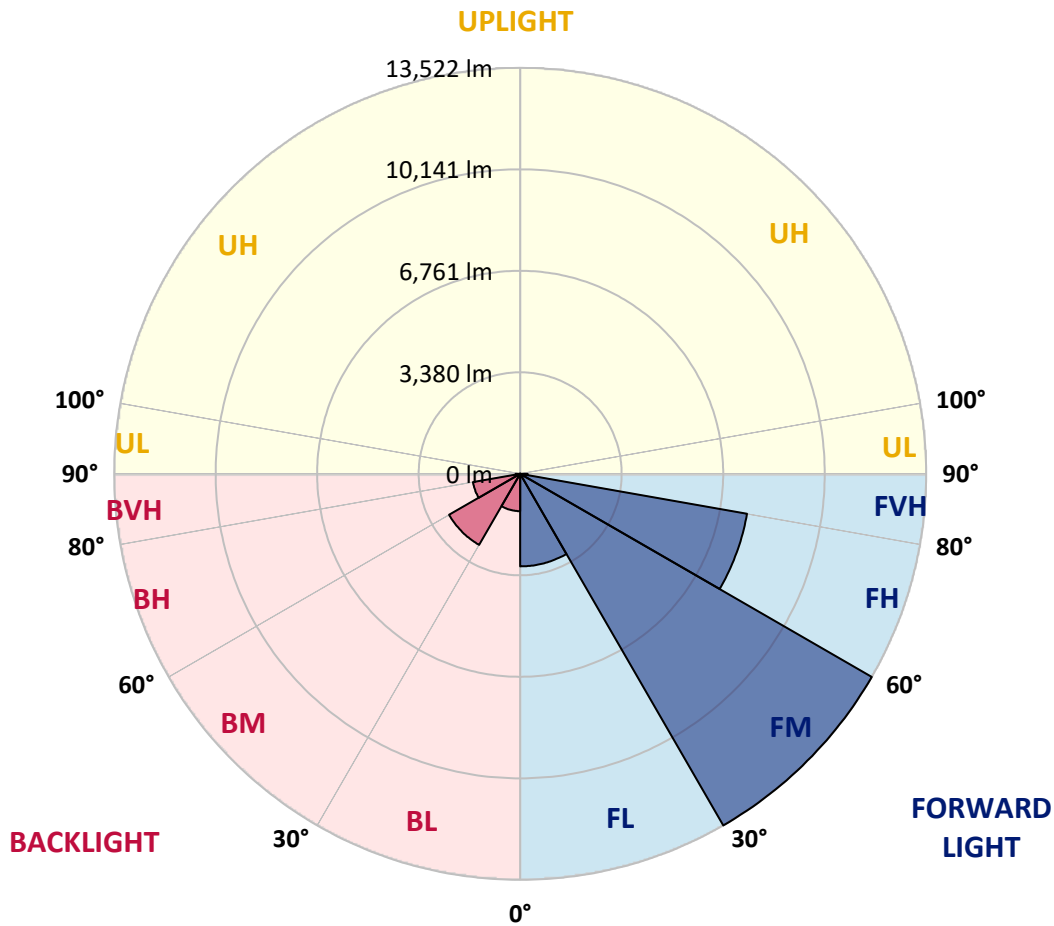
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3083.0	10.2			
FM (30°-60°)	13521.8	44.7			
FH (60°-80°)	7670.8	25.4			G4/12000
FVH (80°-90°)	247.5	0.8			G3/500
BL (0°-30°)	1243.9	4.1	B3/2500		
BM (30°-60°)	2732.8	9.0	B3/5000		
BH (60°-80°)	1596.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	148.3	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°	3548.6	3548.6	3548.6	3548.6	3548.6	3548.6	3548.6	3548.6	3548.6	3548.6
2.5°	4443.1	4474.3	4435.3	4435.3	4304.2	4235.5	4104.3	4004.4	3824.9	3793.7
5°	5251.8	5290.8	5236.2	5212.8	5058.2	4916.2	4696.0	4479.0	4159.0	4126.2
7.5°	5877.8	5927.8	5879.4	5854.4	5717.0	5557.8	5300.2	4997.3	4546.2	4482.1
10°	6388.3	6396.2	6380.5	6389.9	6282.2	6151.0	5887.2	5534.4	4970.8	4883.4
12.5°	6677.2	6713.1	6744.3	6800.5	6781.8	6700.6	6463.3	6041.8	5420.4	5308.0
15°	6813.0	6875.4	6945.7	7075.3	7179.9	7200.2	7019.1	6586.6	5877.8	5742.0
17.5°	6861.4	6920.7	7031.6	7218.9	7443.7	7595.1	7514.0	7115.9	6330.6	6174.5
20°	7106.5	7123.7	7190.8	7368.8	7612.3	7863.7	7924.5	7624.8	6778.6	6602.2
22.5°	7631.0	7596.7	7615.4	7696.6	7871.5	8115.0	8254.0	8074.4	7239.2	7036.2
25°	8497.5	8397.6	8297.7	8204.0	8293.0	8430.4	8588.0	8524.0	7721.6	7464.0
27.5°	9591.9	9470.1	9250.0	8942.4	8834.7	8883.1	8953.4	8940.9	8168.1	7907.4
30°	10669.1	10527.0	10264.8	9819.8	9535.7	9407.7	9354.6	9318.7	8653.6	8375.7
32.5°	11529.3	11416.9	11159.3	10661.3	10249.1	10030.6	9854.2	9726.1	9161.0	8883.1
35°	12281.8	12177.2	11882.1	11338.8	10890.8	10658.2	10427.1	10153.9	9688.7	9407.7
37.5°	12968.7	12864.1	12459.8	11894.6	11443.4	11282.6	11076.6	10612.9	10217.9	9952.5
40°	13402.7	13379.3	13001.5	12361.4	11893.1	11813.4	11744.8	11145.3	10804.9	10558.3
42.5°	13513.6	13565.1	13265.3	12739.2	12292.7	12228.7	12389.5	11747.9	11463.7	11228.0
45°	13246.6	13394.9	13198.2	12840.7	12576.9	12542.5	12960.9	12406.7	12192.8	11977.4
47.5°	12570.6	12822.0	12740.8	12690.8	12653.4	12801.7	13463.6	13106.1	13018.7	12831.3
50°	11206.1	11682.3	11824.4	12139.7	12501.9	13003.1	13921.0	13869.5	13983.5	13794.6
52.5°	8847.2	9502.9	10327.2	11117.2	12036.7	12935.9	14423.7	14965.5	15446.3	15343.3
55°	7303.2	7598.3	8232.1	9680.9	11134.3	12653.4	14650.1	15850.7	16898.2	16806.1
57.5°	6116.7	6380.5	6770.8	7980.7	9769.9	12011.7	14790.6	16390.8	17892.7	17883.3
60°	4844.3	5123.8	5523.5	6380.5	8175.9	10903.3	14759.4	17005.9	19161.9	19240.0
62.5°	3408.1	3715.6	4159.0	4958.3	6547.6	9467.0	14122.4	17450.9	20656.0	20868.3
65°	2240.3	2443.2	2777.3	3467.4	4878.7	7620.1	12906.3	17508.6	22254.6	22613.7
67.5°	1570.5	1648.6	1845.3	2220.0	3216.0	5843.5	10968.8	16910.7	23320.9	23725.2
70°	1225.5	1264.6	1364.5	1514.3	2020.2	3929.5	8405.4	15355.8	23093.0	23514.5
72.5°	1058.5	1095.9	1133.4	1152.2	1355.1	2426.1	5693.6	12839.1	20946.3	21232.0
75°	960.1	969.5	1000.7	994.5	1033.5	1573.7	3286.3	9354.6	16526.6	16428.3
77.5°	807.1	819.6	871.1	863.3	918.0	1075.7	1706.4	6037.1	10714.4	10046.2
80°	683.8	690.0	746.2	736.9	797.8	779.0	871.1	3077.1	4544.6	3849.9
82.5°	237.3	293.5	569.8	587.0	608.9	471.5	502.7	1255.2	1387.9	1063.2
85°	115.5	123.3	290.4	412.2	410.6	237.3	245.1	448.1	437.1	343.5
87.5°	18.7	23.4	34.3	160.8	128.0	62.4	84.3	87.4	90.5	78.1
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°
3548.6	0°	3548.6	3548.6	3548.6	3548.6	3548.6	3548.6	3548.6	3548.6	3548.6	3548.6
3675.0	2.5°	3587.6	3509.5	3345.6	3194.2	3075.5	2961.6	2897.5	2842.9	2811.7	2805.4
3846.7	5°	3684.4	3523.6	3225.4	2974.0	2810.1	2688.4	2624.3	2583.8	2563.5	2551.0
4077.8	7.5°	3823.3	3587.6	3162.9	2877.3	2705.5	2618.1	2585.3	2579.1	2577.5	2579.1
4357.3	10°	4015.4	3692.2	3156.7	2853.8	2710.2	2661.8	2660.2	2661.8	2668.1	2669.6
4661.7	12.5°	4223.0	3799.9	3181.7	2874.1	2769.5	2743.0	2738.3	2736.7	2741.4	2744.6
4969.2	15°	4449.4	3942.0	3223.8	2917.8	2835.1	2807.0	2802.3	2792.9	2791.4	2789.8
5292.4	17.5°	4682.0	4082.5	3270.7	2964.7	2877.3	2838.2	2821.1	2799.2	2782.0	2777.3
5626.5	20°	4917.7	4221.4	3303.5	2988.1	2880.4	2825.7	2791.4	2753.9	2724.3	2707.1
5963.7	22.5°	5169.1	4366.6	3323.8	2981.9	2852.3	2777.3	2714.9	2671.2	2625.9	2596.2
6304.0	25°	5414.2	4493.1	3322.2	2949.1	2797.6	2702.4	2622.8	2566.6	2504.1	2472.9
6655.3	27.5°	5649.9	4607.0	3283.2	2891.3	2719.6	2613.4	2518.2	2451.1	2390.2	2360.5
7009.7	30°	5893.5	4702.3	3222.3	2807.0	2627.5	2510.4	2405.8	2348.0	2293.4	2265.3
7384.4	32.5°	6135.4	4789.7	3136.4	2702.4	2521.3	2408.9	2305.9	2252.8	2220.0	2220.0
7787.2	35°	6391.5	4850.6	3022.4	2580.6	2408.9	2301.2	2220.0	2188.8	2185.7	2166.9
8213.4	37.5°	6661.6	4889.6	2883.5	2455.7	2298.1	2196.6	2171.6	2134.1	2102.9	2062.3
8681.7	40°	6945.7	4928.6	2716.5	2326.2	2181.0	2124.8	2113.8	2063.9	1974.9	1875.0
9212.5	42.5°	7290.7	4955.2	2543.2	2196.6	2057.6	2038.9	2054.5	1968.6	1826.6	1751.6
9852.6	45°	7690.4	4998.9	2383.9	2068.6	1931.2	1931.2	1996.7	1884.3	1767.3	1720.4
10583.2	47.5°	8208.7	5100.4	2235.6	1928.1	1814.1	1845.3	1868.7	1782.9	1717.3	1659.5
11473.1	50°	8958.0	5343.9	2082.6	1786.0	1725.1	1787.6	1754.8	1704.8	1628.3	1581.5
12887.5	52.5°	9888.5	5487.5	1946.8	1658.0	1648.6	1711.1	1664.2	1617.4	1559.6	1497.2
13960.1	55°	10522.3	5514.1	1832.8	1564.3	1597.1	1590.8	1573.7	1531.5	1500.3	1417.6
15018.5	57.5°	11231.1	5567.2	1739.2	1508.1	1564.3	1495.6	1489.4	1453.5	1412.9	1356.7
16309.6	60°	12078.8	5649.9	1658.0	1486.2	1536.2	1433.2	1401.9	1387.9	1347.3	1319.2
17863.0	62.5°	13003.1	5724.8	1575.2	1489.4	1503.4	1372.3	1325.4	1320.8	1295.8	1286.4
19321.2	65°	13633.8	5520.3	1472.2	1486.2	1451.9	1309.8	1250.5	1248.9	1228.6	1225.5
19953.4	67.5°	13413.7	4872.4	1333.2	1442.5	1398.8	1247.4	1181.8	1175.6	1149.0	1150.6
19293.1	70°	12311.5	3948.2	1141.2	1334.8	1333.2	1191.2	1110.0	1089.7	1053.8	1060.0
16774.9	72.5°	10244.5	2925.7	883.6	1155.3	1228.6	1139.7	1027.3	994.5	949.2	955.4
12383.3	75°	7398.4	1988.9	643.2	878.9	1069.4	1078.8	946.1	889.9	835.2	844.6
6892.6	77.5°	3785.9	1127.2	473.0	605.7	839.9	980.4	872.7	797.8	785.3	872.7
1987.4	80°	1234.9	565.1	327.8	424.6	551.1	802.4	765.0	679.1	676.0	696.3
416.8	82.5°	368.4	238.9	210.8	279.5	304.4	615.1	660.4	513.6	441.8	465.2
138.9	85°	126.5	115.5	120.2	138.9	145.2	360.6	462.1	340.3	321.6	354.4
31.2	87.5°	29.7	40.6	34.3	31.2	31.2	87.4	179.5	142.1	196.7	131.1
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>
3548.6
2805.4
2549.4
2583.8
2671.2
2746.1
2788.3
2782.0
2713.3
2597.8
2472.9
2358.9
2263.7
2221.6
2162.2
2056.1
1860.9
1753.2
1728.2
1658.0
1576.8
1484.7
1419.1
1337.9
1327.0
1286.4
1224.0
1150.6
1066.3
953.9
847.7
860.2
597.9
480.8
349.7
126.5
0.0

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