

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: P949296

Luminaire Tested: **GALN-SB4A-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949296
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-SB4A-830-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16454 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

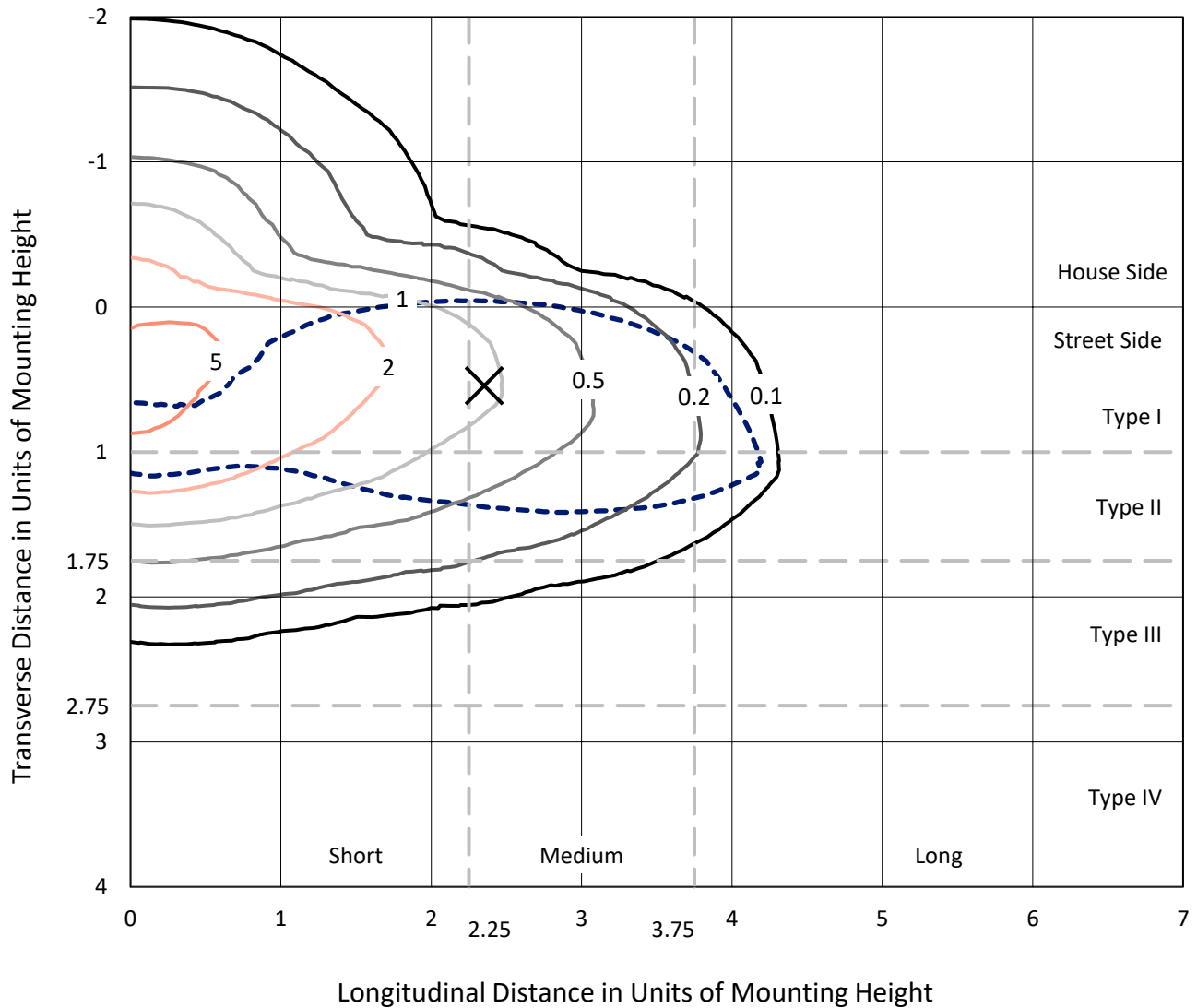
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

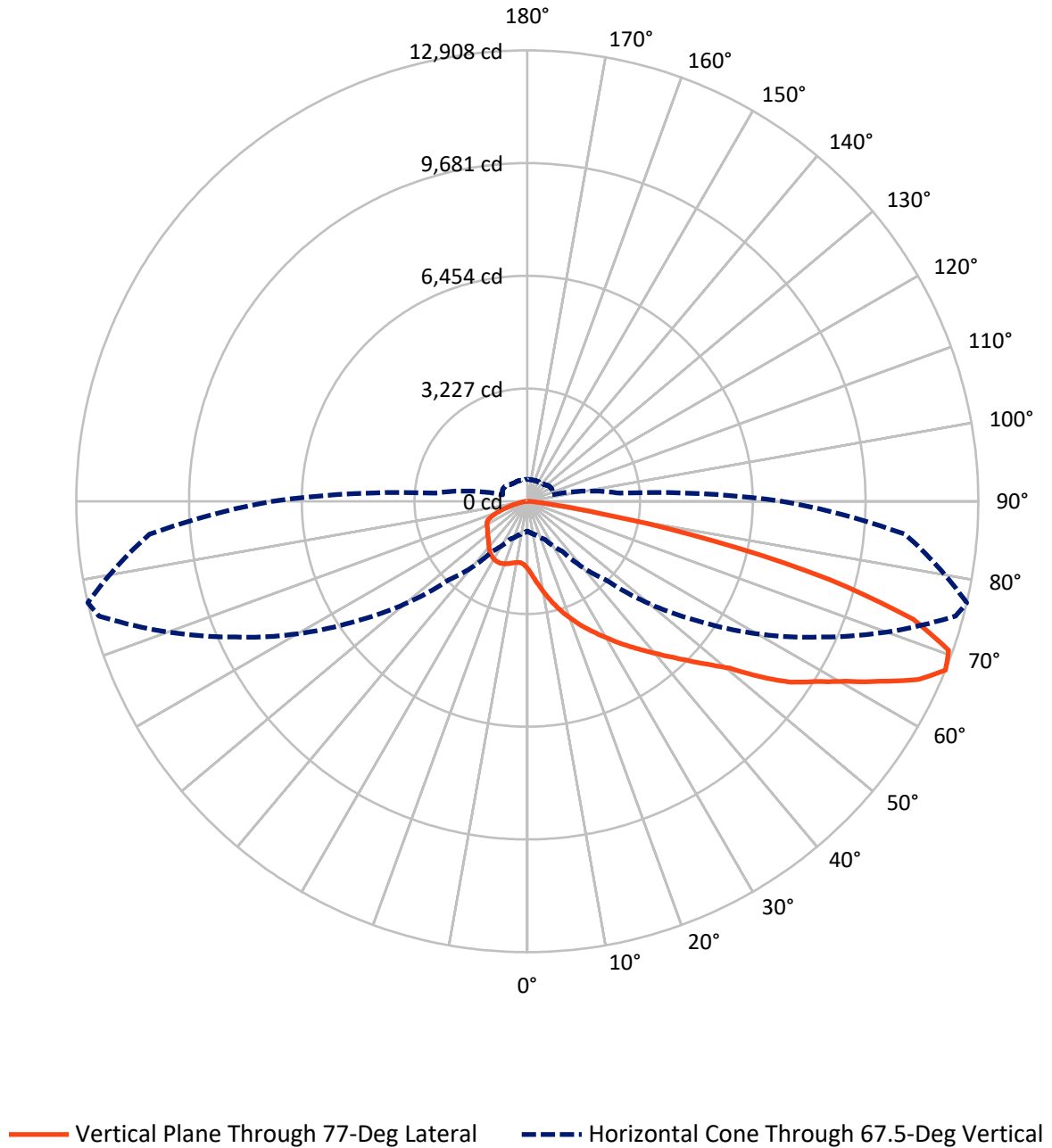
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	3112.4	0.0	3112.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	13341.6	0.0	13341.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	16454.0	0.0	16454.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.9	1.3
10°-20°	743.4	4.5
20°-30°	1403.6	8.5
30°-40°	2261.3	13.7
40°-50°	3093.0	18.8
50°-60°	3488.9	21.2
60°-70°	3256.5	19.8
70°-80°	1785.1	10.8
80°-90°	215.3	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°	16454.0	100.0
0°-180°	16454.0	100.0

Coefficient of Utilization



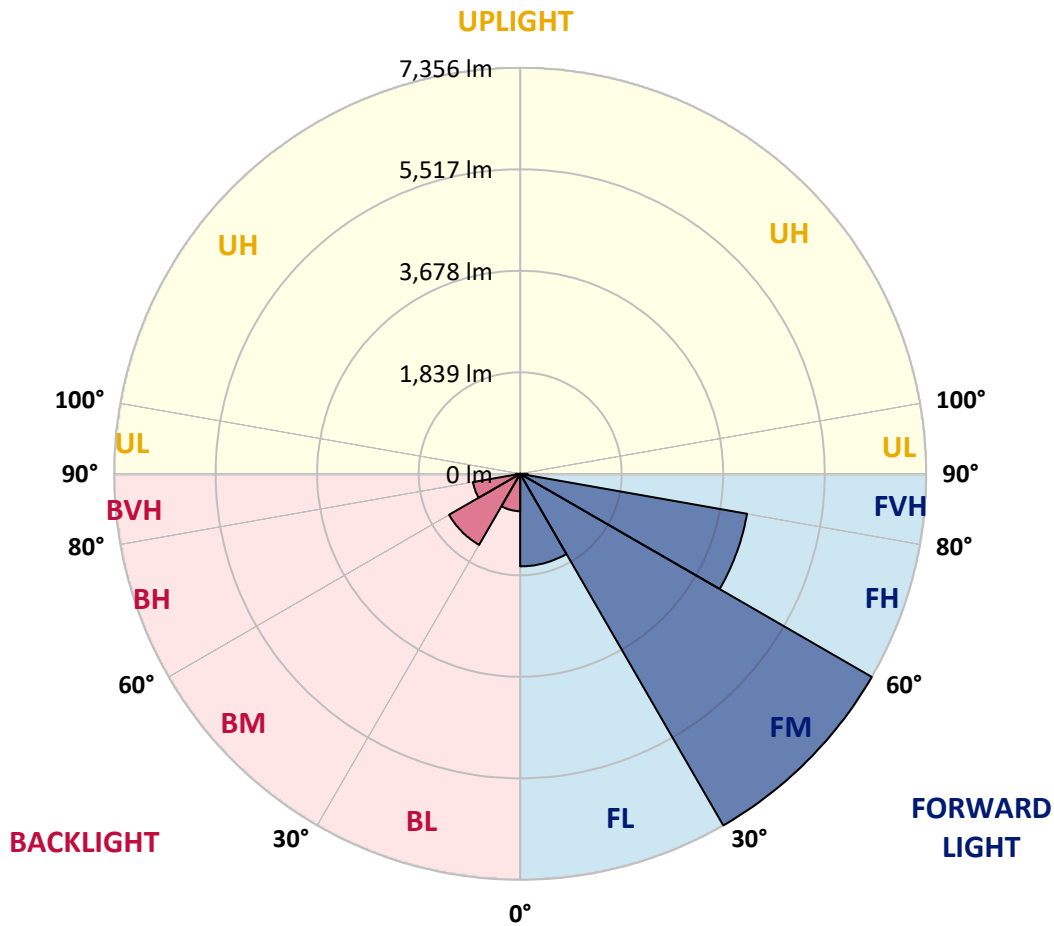
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1677.3	10.2			
FM (30°-60°)	7356.4	44.7			
FH (60°-80°)	4173.2	25.4			G2/5000
FVH (80°-90°)	134.7	0.8			G2/225
BL (0°-30°)	676.7	4.1	B2/1000		
BM (30°-60°)	1486.7	9.0	B2/2500		
BH (60°-80°)	868.3	5.3	B2/1000		G2/1000
BVH (80°-90°)	80.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6
2.5°	2417.2	2434.2	2413.0	2413.0	2341.6	2304.3	2232.9	2178.6	2080.9	2063.9
5°	2857.2	2878.4	2848.7	2836.0	2751.9	2674.6	2554.8	2436.8	2262.7	2244.8
7.5°	3197.8	3225.0	3198.6	3185.1	3110.3	3023.7	2883.5	2718.8	2473.3	2438.5
10°	3475.5	3479.8	3471.3	3476.4	3417.8	3346.4	3202.9	3010.9	2704.3	2656.8
12.5°	3632.7	3652.2	3669.2	3699.8	3689.6	3645.4	3516.3	3287.0	2948.9	2887.8
15°	3706.5	3740.5	3778.7	3849.2	3906.1	3917.2	3818.7	3583.4	3197.8	3123.9
17.5°	3732.9	3765.2	3825.5	3927.4	4049.7	4132.1	4087.9	3871.3	3444.1	3359.2
20°	3866.2	3875.6	3912.1	4008.9	4141.4	4278.2	4311.3	4148.2	3687.9	3591.9
22.5°	4151.6	4132.9	4143.1	4187.3	4282.4	4414.9	4490.5	4392.8	3938.4	3828.0
25°	4623.0	4568.6	4514.3	4463.3	4511.7	4586.5	4672.3	4637.4	4200.9	4060.7
27.5°	5218.4	5152.1	5032.4	4865.1	4806.5	4832.8	4871.0	4864.2	4443.8	4301.9
30°	5804.4	5727.1	5584.5	5342.4	5187.8	5118.2	5089.3	5069.8	4707.9	4556.7
32.5°	6272.4	6211.3	6071.1	5800.2	5576.0	5457.1	5361.1	5291.4	4984.0	4832.8
35°	6681.8	6624.9	6464.4	6168.8	5925.0	5798.5	5672.8	5524.2	5271.0	5118.2
37.5°	7055.5	6998.6	6778.6	6471.2	6225.7	6138.2	6026.1	5773.9	5559.0	5414.6
40°	7291.6	7278.9	7073.4	6725.1	6470.3	6427.0	6389.6	6063.5	5878.3	5744.1
42.5°	7351.9	7380.0	7216.9	6930.7	6687.8	6652.9	6740.4	6391.3	6236.8	6108.5
45°	7206.7	7287.4	7180.4	6985.9	6842.3	6823.7	7051.3	6749.8	6633.4	6516.2
47.5°	6838.9	6975.7	6931.5	6904.3	6884.0	6964.6	7324.8	7130.3	7082.7	6980.8
50°	6096.6	6355.7	6433.0	6604.5	6801.6	7074.2	7573.6	7545.6	7607.6	7504.8
52.5°	4813.2	5170.0	5618.4	6048.2	6548.5	7037.7	7847.1	8141.8	8403.4	8347.4
55°	3973.2	4133.8	4478.6	5266.8	6057.5	6884.0	7970.3	8623.4	9193.3	9143.2
57.5°	3327.7	3471.3	3683.6	4341.9	5315.2	6534.9	8046.7	8917.3	9734.4	9729.3
60°	2635.5	2787.6	3005.0	3471.3	4448.0	5931.8	8029.7	9251.9	10424.9	10467.4
62.5°	1854.1	2021.4	2262.7	2697.5	3562.2	5150.4	7683.2	9494.0	11237.7	11353.2
65°	1218.8	1329.2	1511.0	1886.4	2654.2	4145.7	7021.6	9525.4	12107.4	12302.8
67.5°	854.4	896.9	1003.9	1207.8	1749.7	3179.1	5967.5	9200.1	12687.5	12907.5
70°	666.7	688.0	742.3	823.9	1099.1	2137.8	4572.9	8354.2	12563.5	12792.9
72.5°	575.9	596.2	616.6	626.8	737.2	1319.9	3097.6	6985.0	11395.7	11551.1
75°	522.3	527.4	544.4	541.0	562.3	856.1	1787.9	5089.3	8991.2	8937.7
77.5°	439.1	445.9	473.9	469.7	499.4	585.2	928.3	3284.4	5829.1	5465.5
80°	372.0	375.4	406.0	400.9	434.0	423.8	473.9	1674.1	2472.4	2094.5
82.5°	129.1	159.7	310.0	319.4	331.2	256.5	273.5	682.9	755.1	578.4
85°	62.9	67.1	158.0	224.2	223.4	129.1	133.3	243.8	237.8	186.9
87.5°	10.2	12.7	18.7	87.5	69.6	34.0	45.9	47.6	49.3	42.5
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°
1930.6	0°	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6	1930.6
1999.4	2.5°	1951.8	1909.3	1820.2	1737.8	1673.2	1611.2	1576.4	1546.7	1529.7	1526.3
2092.8	5°	2004.5	1917.0	1754.8	1618.0	1528.8	1462.6	1427.8	1405.7	1394.6	1387.8
2218.5	7.5°	2080.1	1951.8	1720.8	1565.3	1471.9	1424.4	1406.5	1403.1	1402.3	1403.1
2370.5	10°	2184.5	2008.7	1717.4	1552.6	1474.5	1448.1	1447.3	1448.1	1451.5	1452.4
2536.1	12.5°	2297.5	2067.3	1731.0	1563.6	1506.7	1492.3	1489.8	1488.9	1491.5	1493.2
2703.5	15°	2420.6	2144.6	1753.9	1587.4	1542.4	1527.1	1524.6	1519.5	1518.6	1517.8
2879.3	17.5°	2547.2	2221.0	1779.4	1612.9	1565.3	1544.1	1534.8	1522.9	1513.5	1511.0
3061.0	20°	2675.4	2296.6	1797.2	1625.6	1567.0	1537.3	1518.6	1498.2	1482.1	1472.8
3244.5	22.5°	2812.2	2375.6	1808.3	1622.3	1551.8	1511.0	1477.0	1453.2	1428.6	1412.5
3429.7	25°	2945.5	2444.4	1807.4	1604.4	1522.0	1470.2	1426.9	1396.3	1362.4	1345.4
3620.8	27.5°	3073.8	2506.4	1786.2	1573.0	1479.6	1421.8	1370.0	1333.5	1300.4	1284.2
3813.6	30°	3206.3	2558.2	1753.1	1527.1	1429.5	1365.7	1308.8	1277.4	1247.7	1232.4
4017.4	32.5°	3337.9	2605.8	1706.3	1470.2	1371.7	1310.5	1254.5	1225.6	1207.8	1207.8
4236.5	35°	3477.2	2638.9	1644.3	1404.0	1310.5	1251.9	1207.8	1190.8	1189.1	1178.9
4468.4	37.5°	3624.2	2660.2	1568.7	1336.0	1250.2	1195.0	1181.4	1161.1	1144.1	1122.0
4723.2	40°	3778.7	2681.4	1477.9	1265.5	1186.5	1156.0	1150.0	1122.8	1074.4	1020.1
5012.0	42.5°	3966.4	2695.8	1383.6	1195.0	1119.4	1109.2	1117.7	1071.0	993.7	953.0
5360.2	45°	4183.9	2719.6	1297.0	1125.4	1050.6	1050.6	1086.3	1025.2	961.5	936.0
5757.7	47.5°	4465.9	2774.8	1216.3	1048.9	986.9	1003.9	1016.7	970.0	934.3	902.9
6241.8	50°	4873.6	2907.3	1133.0	971.7	938.5	972.5	954.7	927.5	885.9	860.4
7011.4	52.5°	5379.8	2985.5	1059.1	902.0	896.9	930.9	905.4	879.9	848.5	814.5
7594.9	55°	5724.6	2999.9	997.1	851.0	868.9	865.5	856.1	833.2	816.2	771.2
8170.7	57.5°	6110.2	3028.8	946.2	820.5	851.0	813.7	810.3	790.7	768.7	738.1
8873.1	60°	6571.4	3073.8	902.0	808.6	835.8	779.7	762.7	755.1	733.0	717.7
9718.2	62.5°	7074.2	3114.6	857.0	810.3	817.9	746.6	721.1	718.5	705.0	699.9
10511.5	65°	7417.3	3003.3	800.9	808.6	789.9	712.6	680.3	679.5	668.4	666.7
10855.5	67.5°	7297.6	2650.8	725.3	784.8	761.0	678.6	643.0	639.6	625.1	626.0
10496.2	70°	6697.9	2148.0	620.9	726.2	725.3	648.1	603.9	592.8	573.3	576.7
9126.2	72.5°	5573.4	1591.7	480.7	628.5	668.4	620.0	558.9	541.0	516.4	519.8
6737.0	75°	4025.1	1082.1	349.9	478.2	581.8	586.9	514.7	484.1	454.4	459.5
3749.9	77.5°	2059.7	613.2	257.4	329.5	456.9	533.4	474.8	434.0	427.2	474.8
1081.2	80°	671.8	307.5	178.4	231.0	299.8	436.6	416.2	369.5	367.8	378.8
226.8	82.5°	200.4	130.0	114.7	152.0	165.6	334.6	359.3	279.4	240.4	253.1
75.6	85°	68.8	62.9	65.4	75.6	79.0	196.2	251.4	185.2	175.0	192.8
17.0	87.5°	16.1	22.1	18.7	17.0	17.0	47.6	97.7	77.3	107.0	71.3
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>
1930.6
1526.3
1387.0
1405.7
1453.2
1494.0
1516.9
1513.5
1476.2
1413.3
1345.4
1283.4
1231.6
1208.6
1176.3
1118.6
1012.4
953.8
940.2
902.0
857.8
807.7
772.1
727.9
721.9
699.9
665.9
626.0
580.1
519.0
461.2
468.0
325.3
261.6
190.3
68.8
0.0

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