

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: P946841

Luminaire Tested: **GALN-SB2B-840-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2B-840-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10916 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

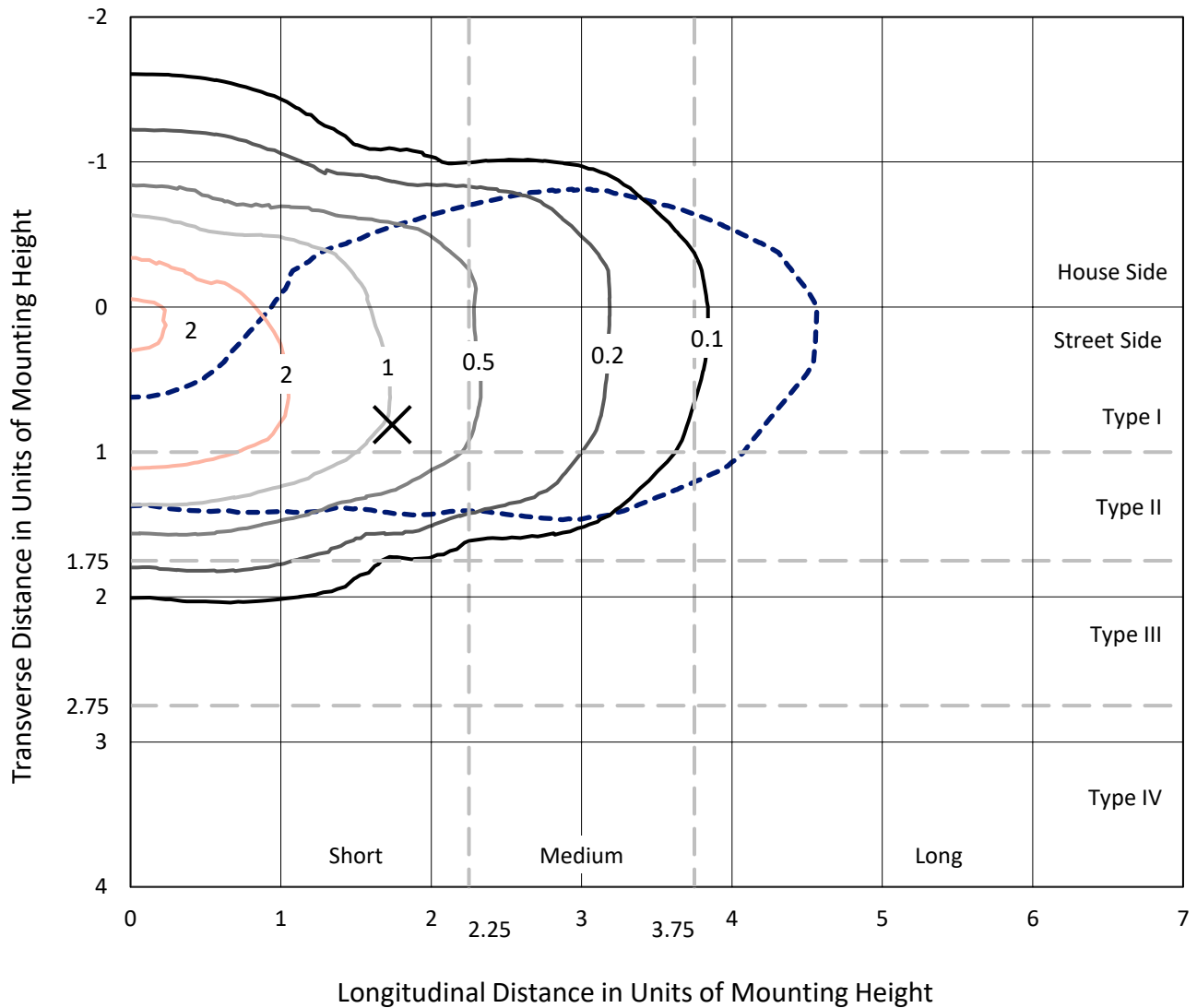
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

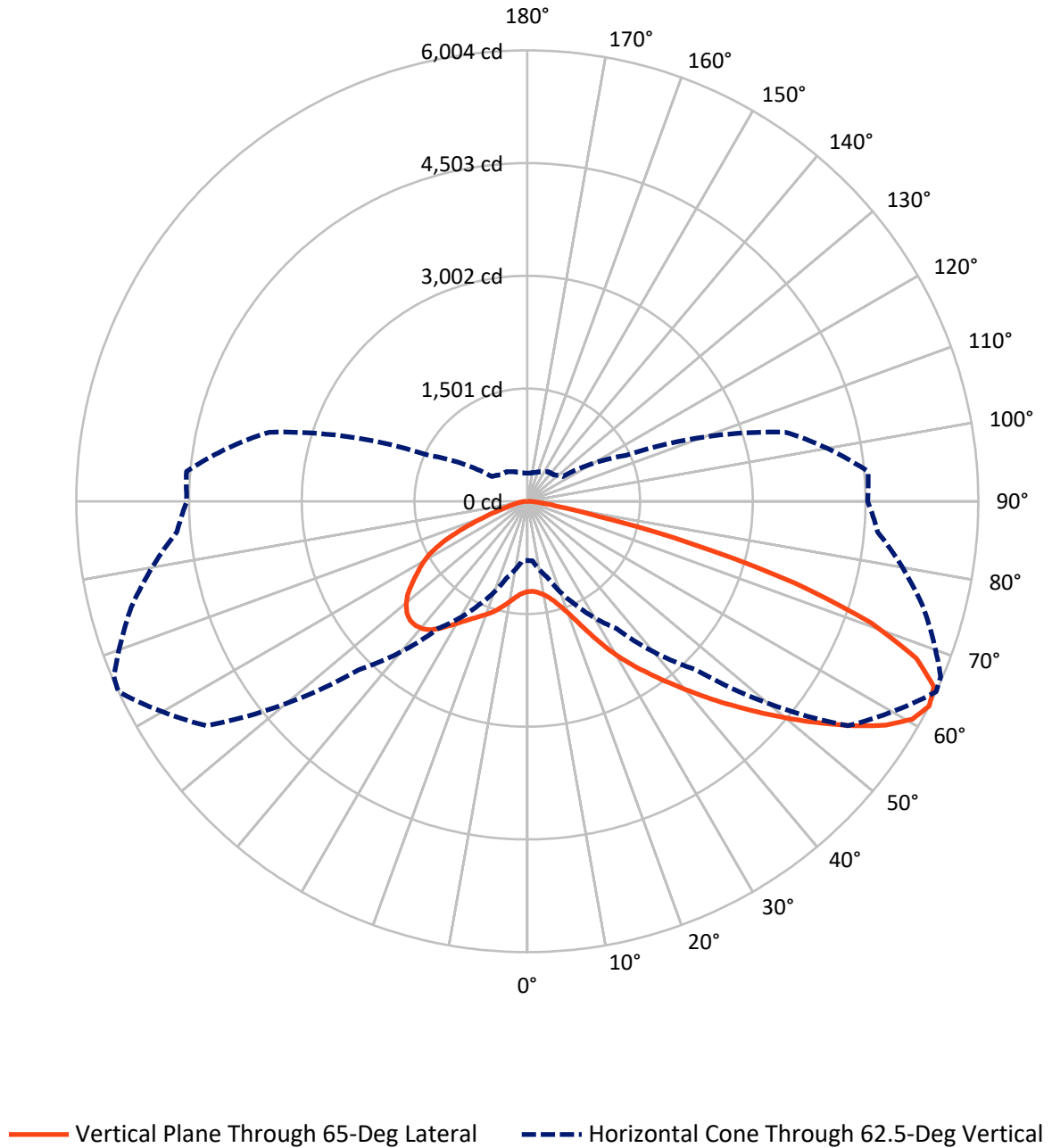
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3444.6	0.0	3444.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	7471.4	0.0	7471.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	10916.0	0.0	10916.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	1.1
10°-20°	406.7	3.7
20°-30°	824.6	7.6
30°-40°	1426.9	13.1
40°-50°	2159.4	19.8
50°-60°	2531.8	23.2
60°-70°	2122.6	19.4
70°-80°	1171.8	10.7
80°-90°	152.2	1.4
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°	10916.0	100.0
0°-180°	10916.0	100.0



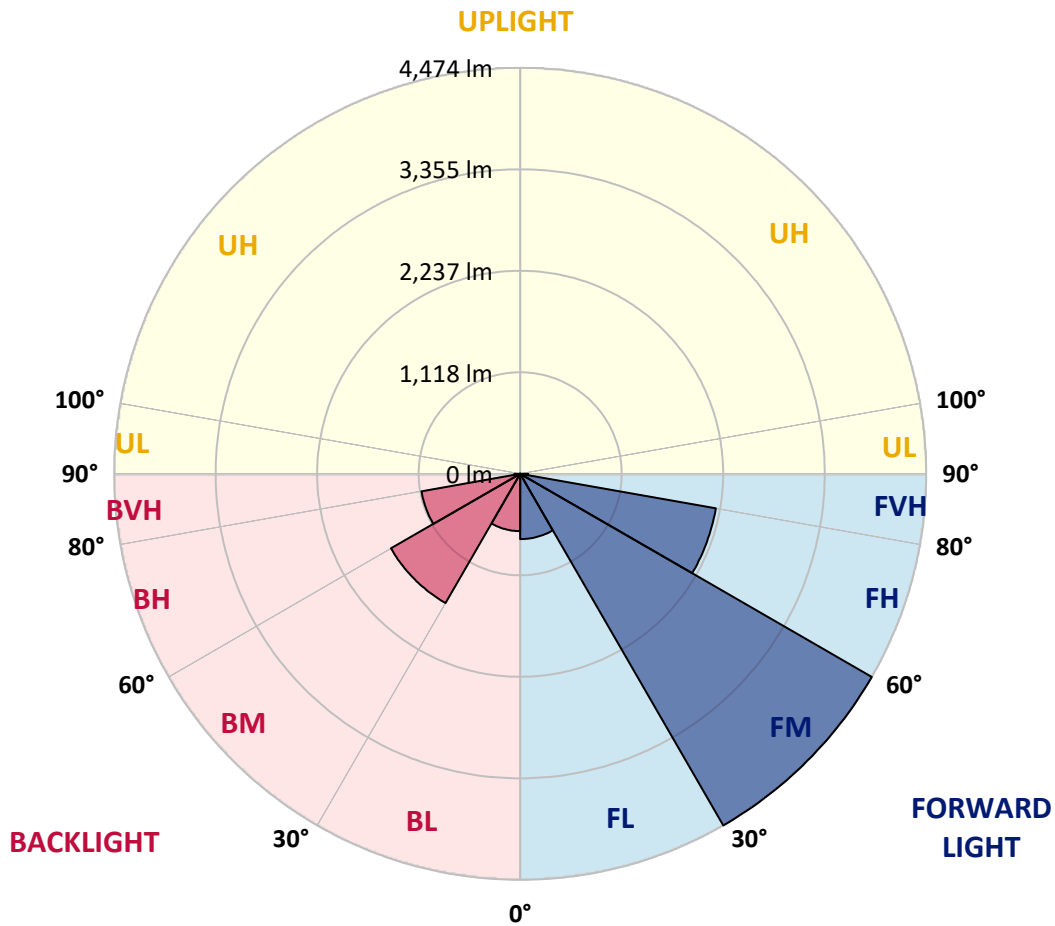
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	719.5	6.6			
FM (30°-60°)	4473.7	41.0			
FH (60°-80°)	2189.4	20.1			G2/5000
FVH (80°-90°)	88.7	0.8			G1/100
BL (0°-30°)	631.7	5.8	B2/1000		
BM (30°-60°)	1644.4	15.1	B2/2500		
BH (60°-80°)	1105.0	10.1	B3/2500		G3/2500
BVH (80°-90°)	63.5	0.6			G1/100
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1202.9	1202.9	1202.9	1202.9	1202.9	1202.9	1202.9	1202.9	1202.9	1202.9
2.5°	1195.0	1191.6	1194.4	1194.4	1195.5	1195.0	1198.9	1200.1	1201.8	1205.2
5°	1183.1	1182.5	1187.6	1192.1	1196.7	1200.6	1205.7	1213.1	1214.2	1218.2
7.5°	1179.1	1175.7	1183.6	1189.3	1200.1	1209.7	1223.3	1235.7	1240.8	1242.5
10°	1209.7	1204.0	1211.4	1214.8	1223.9	1233.5	1249.3	1269.2	1274.8	1281.6
12.5°	1261.8	1255.6	1266.3	1271.4	1279.9	1288.4	1299.2	1318.4	1321.3	1333.7
15°	1333.2	1325.8	1332.6	1338.8	1353.0	1360.9	1371.7	1390.4	1390.4	1400.0
17.5°	1430.0	1420.4	1425.5	1427.7	1436.8	1448.7	1466.8	1483.2	1491.7	1488.3
20°	1574.4	1562.5	1562.5	1551.2	1547.8	1557.4	1581.2	1603.9	1612.9	1595.4
22.5°	1791.3	1774.3	1764.7	1726.2	1710.9	1712.0	1735.8	1763.6	1770.9	1739.8
25°	2067.1	2040.5	2027.5	1970.8	1936.3	1906.3	1925.0	1960.7	1970.8	1932.3
27.5°	2342.9	2344.6	2332.2	2264.2	2207.0	2152.1	2142.4	2179.8	2190.6	2147.0
30°	2729.7	2689.5	2665.7	2584.2	2502.6	2425.6	2386.0	2401.3	2404.1	2352.0
32.5°	3063.3	3053.1	3002.1	2930.8	2826.0	2705.4	2639.1	2614.8	2610.2	2536.0
35°	3443.3	3437.7	3383.9	3298.9	3185.6	3018.0	2898.5	2828.8	2823.2	2719.0
37.5°	3829.6	3829.6	3776.9	3684.0	3566.8	3357.2	3175.4	3065.0	3046.9	2911.0
40°	4137.6	4119.0	4128.6	4089.5	3955.3	3732.7	3483.0	3322.7	3298.3	3135.2
42.5°	4312.6	4306.4	4364.2	4407.8	4352.9	4175.0	3821.6	3601.9	3567.9	3382.2
45°	4351.7	4344.9	4448.0	4607.7	4684.7	4611.7	4189.7	3895.8	3854.5	3640.4
47.5°	4261.7	4248.1	4399.3	4651.3	4898.2	5026.8	4588.4	4214.7	4154.6	3891.9
50°	3991.0	3977.9	4206.7	4541.4	4970.2	5308.8	5021.1	4552.8	4461.0	4161.4
52.5°	3402.5	3408.8	3767.3	4227.1	4875.6	5484.4	5393.8	4909.0	4798.6	4437.2
55°	2650.4	2664.0	3104.6	3611.0	4497.3	5457.8	5648.1	5276.0	5166.1	4696.6
57.5°	1897.8	1957.8	2370.7	2871.9	3770.7	5035.9	5703.6	5624.8	5518.4	4979.8
60°	1230.1	1240.8	1665.6	2170.8	2871.3	4286.0	5590.9	5889.3	5806.1	5268.6
62.5°	788.3	795.7	1054.5	1518.3	2066.6	3170.9	5211.4	6004.3	5978.8	5459.5
65°	579.4	573.7	708.5	1003.5	1392.1	1955.6	4474.6	5948.8	5999.2	5579.0
67.5°	483.7	475.7	542.0	694.9	1025.6	1110.6	3310.8	5588.0	5772.7	5565.4
70°	440.6	433.8	474.0	515.9	800.2	743.6	1669.0	4858.0	5142.3	5410.8
72.5°	373.2	361.3	416.3	458.2	622.4	570.3	689.8	3731.6	4078.2	4915.2
75°	289.4	281.5	328.5	403.2	467.8	445.1	436.1	2265.9	2644.2	3801.2
77.5°	229.4	218.6	261.6	314.3	420.8	335.8	317.7	975.8	1350.7	2426.7
80°	172.7	163.1	198.8	248.6	323.4	253.2	205.6	398.1	509.1	1229.5
82.5°	122.9	114.4	138.8	182.4	217.5	227.1	126.3	223.1	250.9	474.0
85°	78.7	73.6	92.9	114.4	138.2	146.1	77.0	116.7	128.0	195.4
87.5°	43.0	35.1	49.8	53.2	64.0	58.3	36.8	42.5	45.9	70.8
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°
1202.9	0°	1202.9	1202.9	1202.9	1202.9	1202.9	1202.9	1202.9	1202.9	1202.9	1202.9
1205.2	2.5°	1207.4	1209.1	1214.8	1216.5	1220.5	1225.5	1228.9	1232.3	1232.3	1235.7
1223.3	5°	1223.9	1227.8	1239.7	1245.9	1256.1	1266.3	1272.6	1279.9	1284.4	1286.7
1252.2	7.5°	1255.6	1261.8	1278.8	1289.5	1307.1	1321.3	1330.9	1341.1	1343.3	1349.6
1292.4	10°	1298.6	1306.0	1325.2	1345.6	1366.6	1384.1	1393.2	1400.5	1403.4	1404.5
1343.9	12.5°	1347.9	1358.6	1383.6	1408.5	1430.6	1445.9	1448.1	1446.4	1438.5	1431.7
1407.3	15°	1408.5	1418.1	1445.9	1473.0	1494.6	1497.4	1483.2	1474.2	1464.5	1462.8
1478.1	17.5°	1481.0	1486.1	1511.5	1538.2	1539.9	1530.2	1509.3	1500.8	1491.7	1485.5
1570.4	20°	1565.4	1563.7	1581.8	1593.1	1581.2	1551.8	1520.0	1505.9	1496.8	1489.5
1683.7	22.5°	1666.2	1653.1	1650.9	1648.0	1616.3	1554.6	1511.5	1493.4	1479.3	1469.1
1841.7	25°	1812.8	1763.0	1728.5	1709.2	1637.8	1539.3	1484.4	1444.2	1417.5	1400.0
2034.8	27.5°	1996.3	1912.5	1825.3	1778.3	1637.8	1508.2	1418.7	1353.5	1309.9	1291.8
2221.7	30°	2171.3	2083.5	1955.0	1861.5	1633.9	1457.2	1312.8	1222.2	1171.2	1153.1
2381.4	32.5°	2320.8	2225.1	2092.6	1952.7	1624.2	1374.5	1181.4	1081.1	1031.9	1010.3
2539.4	35°	2459.6	2357.7	2230.8	2053.0	1598.8	1253.3	1037.0	960.5	905.6	871.0
2700.3	37.5°	2601.7	2480.5	2361.6	2143.6	1552.9	1111.7	926.0	860.8	796.3	749.8
2871.3	40°	2756.4	2611.4	2501.5	2197.4	1477.6	976.9	839.9	780.4	711.9	662.6
3068.4	42.5°	2937.0	2768.2	2657.2	2225.1	1374.5	881.2	783.8	725.5	660.9	620.7
3279.6	45°	3125.6	2941.0	2799.4	2224.6	1259.5	836.5	765.7	707.9	636.6	594.7
3496.6	47.5°	3323.3	3121.6	2922.3	2188.3	1159.9	842.7	755.5	670.0	591.3	550.5
3715.7	50°	3521.5	3319.3	3041.2	2120.4	1117.4	829.1	717.5	616.7	523.9	487.0
3921.3	52.5°	3718.0	3529.4	3143.7	2023.5	1074.3	778.7	668.8	547.6	496.1	470.6
4133.7	55°	3915.6	3737.2	3255.3	1882.5	966.7	719.8	587.3	521.6	474.0	450.8
4341.5	57.5°	4113.9	3977.4	3361.2	1741.5	831.4	647.3	542.5	489.9	451.9	432.1
4515.4	60°	4320.0	4252.0	3470.5	1611.8	697.7	554.4	509.7	464.4	425.9	403.8
4682.5	62.5°	4532.4	4554.5	3556.0	1444.7	574.8	497.8	480.3	433.8	396.4	375.5
4820.6	65°	4746.5	4846.1	3612.1	1213.1	466.1	444.0	448.5	400.4	362.5	344.3
4922.0	67.5°	4907.9	5056.2	3596.2	918.0	382.3	393.0	408.9	365.3	329.6	315.4
4905.6	70°	4926.0	5031.3	3439.9	628.6	320.0	343.2	364.7	330.7	293.9	283.7
4674.5	72.5°	4684.7	4691.5	3004.4	410.6	270.7	301.3	318.3	295.6	259.9	249.8
4089.5	75°	4052.1	3880.0	2205.9	270.7	226.5	258.8	274.7	258.8	224.3	226.5
3059.9	77.5°	3070.1	2747.9	1339.4	192.6	189.2	217.5	239.0	227.7	198.2	222.6
1538.7	80°	1581.8	1486.6	597.5	143.8	149.5	173.9	196.5	181.8	156.9	149.5
343.8	82.5°	362.5	421.4	235.6	103.1	108.2	125.2	150.1	136.5	112.7	95.1
143.3	85°	126.9	138.8	104.2	64.6	63.4	78.2	101.9	91.2	76.5	61.2
60.6	87.5°	40.2	52.7	39.1	26.1	27.2	35.1	47.0	43.0	35.7	23.2
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>
1202.9
1235.7
1287.8
1347.3
1401.7
1431.7
1462.8
1486.1
1490.0
1472.5
1406.8
1300.9
1163.8
1021.1
882.4
762.3
672.2
628.6
601.4
556.1
489.3
470.6
448.5
428.7
402.1
374.9
343.8
316.0
284.3
249.2
218.6
196.0
136.5
94.0
64.6
24.4
0.0

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