

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: P944993

Luminaire Tested: **GALN-SB1A-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944993
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-SB1A-827-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3954 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

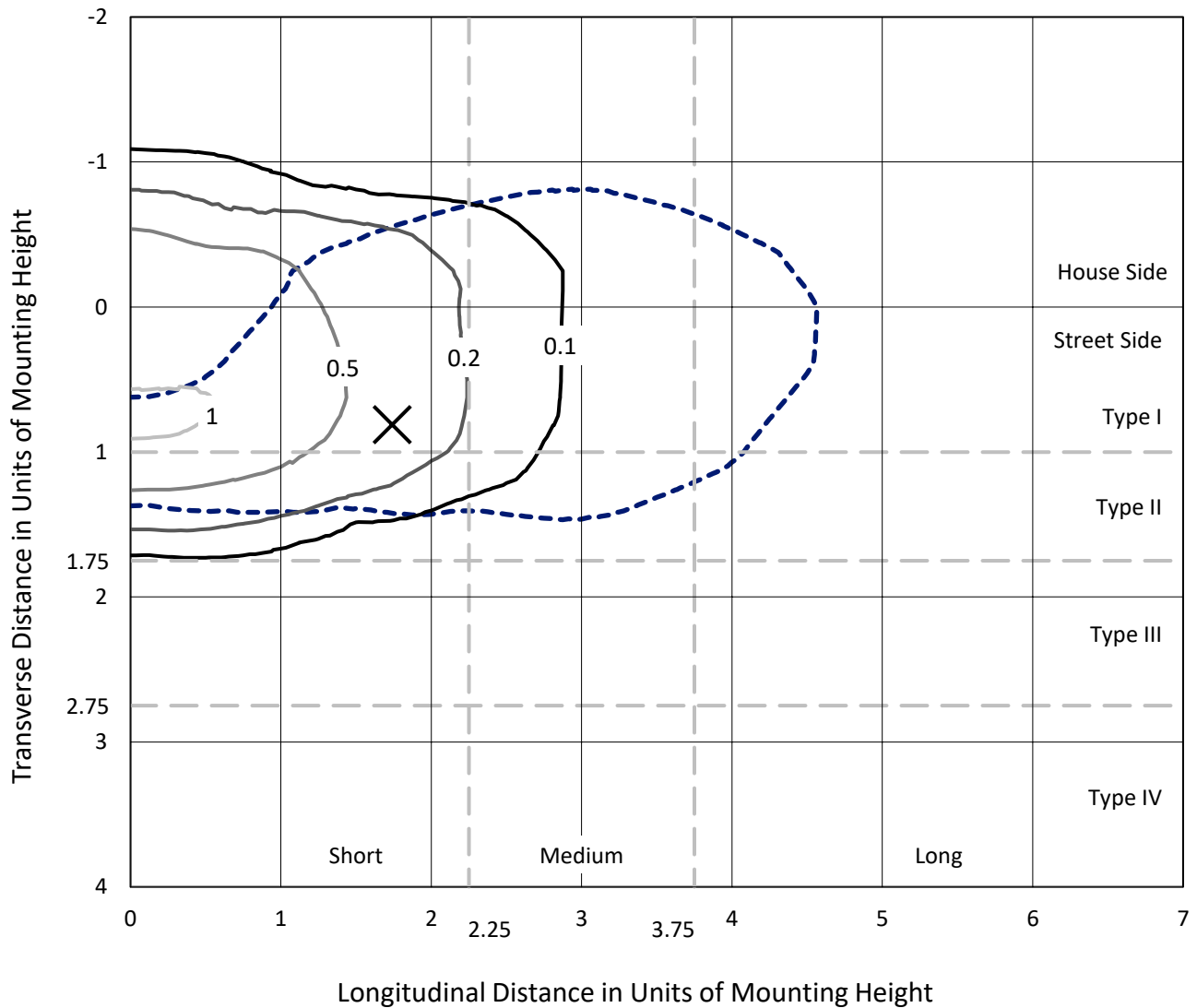
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

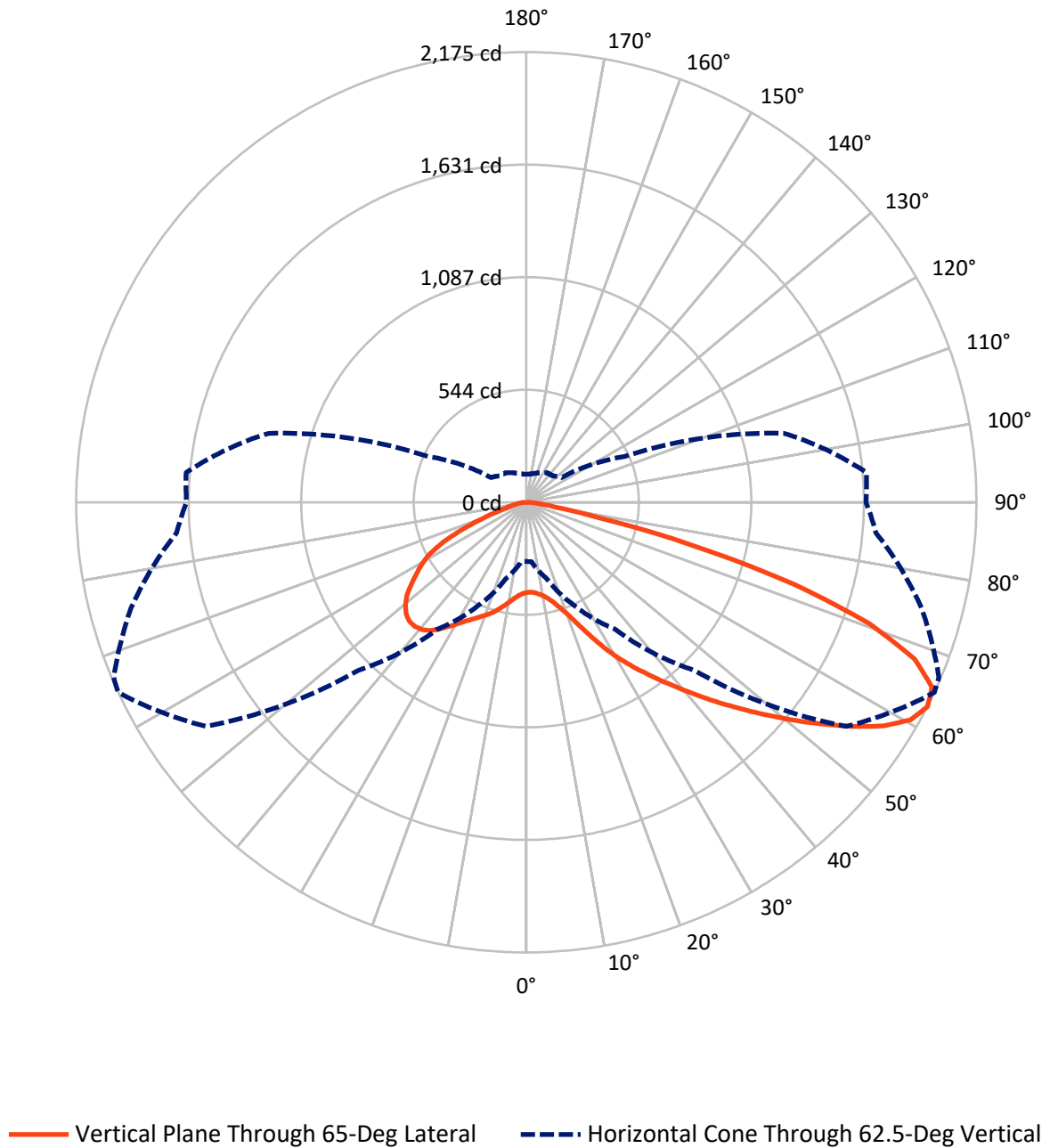
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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	1247.7	0.0	1247.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	2706.3	0.0	2706.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	3954.0	0.0	3954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	1.1
10°-20°	147.3	3.7
20°-30°	298.7	7.6
30°-40°	516.9	13.1
40°-50°	782.2	19.8
50°-60°	917.1	23.2
60°-70°	768.8	19.4
70°-80°	424.5	10.7
80°-90°	55.1	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°	3954.0	100.0
0°-180°	3954.0	100.0

Coefficient of Utilization

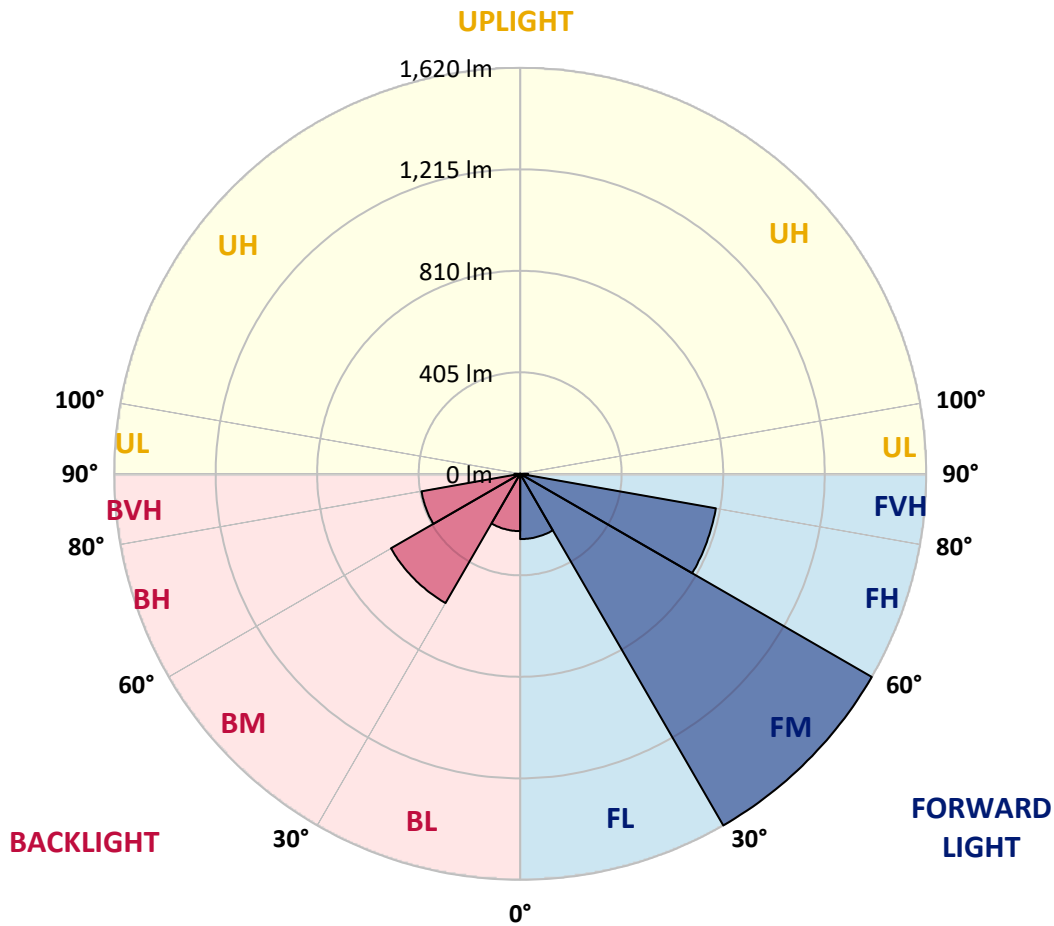


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	260.6	6.6			
FM (30°-60°)	1620.5	41.0			
FH (60°-80°)	793.1	20.1			G1/1800
FVH (80°-90°)	32.1	0.8			G1/100
BL (0°-30°)	228.8	5.8	B1/500		
BM (30°-60°)	595.6	15.1	B1/1000		
BH (60°-80°)	400.3	10.1	B1/500		G1/500
BVH (80°-90°)	23.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7
2.5°	432.8	431.6	432.6	432.6	433.0	432.8	434.3	434.7	435.3	436.5
5°	428.5	428.3	430.2	431.8	433.5	434.9	436.7	439.4	439.8	441.3
7.5°	427.1	425.9	428.7	430.8	434.7	438.2	443.1	447.6	449.5	450.1
10°	438.2	436.1	438.8	440.0	443.3	446.8	452.5	459.7	461.8	464.2
12.5°	457.0	454.8	458.7	460.5	463.6	466.7	470.6	477.6	478.6	483.1
15°	482.9	480.2	482.7	484.9	490.1	492.9	496.8	503.6	503.6	507.1
17.5°	518.0	514.5	516.3	517.2	520.4	524.7	531.3	537.3	540.3	539.1
20°	570.3	566.0	566.0	561.9	560.6	564.1	572.7	581.0	584.2	577.9
22.5°	648.9	642.7	639.2	625.3	619.7	620.1	628.7	638.8	641.5	630.2
25°	748.8	739.1	734.4	713.9	701.4	690.5	697.3	710.2	713.9	699.9
27.5°	848.7	849.3	844.8	820.1	799.4	779.5	776.0	789.6	793.5	777.7
30°	988.8	974.2	965.6	936.0	906.5	878.6	864.2	869.8	870.8	851.9
32.5°	1109.6	1105.9	1087.4	1061.6	1023.6	979.9	955.9	947.1	945.5	918.6
35°	1247.2	1245.2	1225.7	1194.9	1153.9	1093.2	1049.9	1024.7	1022.6	984.9
37.5°	1387.1	1387.1	1368.1	1334.4	1292.0	1216.1	1150.2	1110.2	1103.6	1054.4
40°	1498.7	1492.0	1495.5	1481.3	1432.7	1352.1	1261.6	1203.5	1194.7	1135.6
42.5°	1562.1	1559.9	1580.8	1596.6	1576.7	1512.3	1384.3	1304.7	1292.4	1225.1
45°	1576.3	1573.8	1611.2	1669.0	1696.9	1670.4	1517.6	1411.1	1396.2	1318.6
47.5°	1543.7	1538.7	1593.5	1684.8	1774.2	1820.8	1662.0	1526.6	1504.9	1409.7
50°	1445.6	1440.9	1523.8	1645.0	1800.3	1923.0	1818.8	1649.1	1615.9	1507.4
52.5°	1232.5	1234.7	1364.6	1531.2	1766.0	1986.6	1953.7	1778.1	1738.1	1607.3
55°	960.0	965.0	1124.6	1308.0	1629.0	1976.9	2045.8	1911.1	1871.3	1701.2
57.5°	687.4	709.2	858.7	1040.3	1365.8	1824.1	2065.9	2037.4	1998.9	1803.8
60°	445.6	449.5	603.3	786.3	1040.1	1552.5	2025.1	2133.2	2103.1	1908.4
62.5°	285.6	288.2	382.0	550.0	748.5	1148.6	1887.7	2174.9	2165.6	1977.5
65°	209.9	207.8	256.6	363.5	504.2	708.3	1620.8	2154.8	2173.0	2020.8
67.5°	175.2	172.3	196.3	251.7	371.5	402.3	1199.2	2024.1	2091.0	2015.9
70°	159.6	157.1	171.7	186.9	289.9	269.3	604.5	1759.7	1862.7	1959.9
72.5°	135.2	130.9	150.8	166.0	225.4	206.6	249.9	1351.7	1477.2	1780.4
75°	104.8	102.0	119.0	146.1	169.4	161.2	158.0	820.8	957.8	1376.9
77.5°	83.1	79.2	94.8	113.9	152.4	121.6	115.1	353.5	489.3	879.0
80°	62.6	59.1	72.0	90.1	117.1	91.7	74.5	144.2	184.4	445.4
82.5°	44.5	41.4	50.3	66.1	78.8	82.3	45.7	80.8	90.9	171.7
85°	28.5	26.7	33.6	41.4	50.1	52.9	27.9	42.3	46.4	70.8
87.5°	15.6	12.7	18.1	19.3	23.2	21.1	13.3	15.4	16.6	25.6
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°
435.7	0°	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7
436.5	2.5°	437.4	438.0	440.0	440.6	442.1	443.9	445.2	446.4	446.4	447.6
443.1	5°	443.3	444.7	449.0	451.3	455.0	458.7	460.9	463.6	465.3	466.1
453.6	7.5°	454.8	457.0	463.2	467.1	473.5	478.6	482.1	485.8	486.6	488.8
468.1	10°	470.4	473.0	480.0	487.4	495.0	501.4	504.6	507.3	508.3	508.7
486.8	12.5°	488.2	492.1	501.2	510.2	518.2	523.7	524.5	523.9	521.1	518.6
509.8	15°	510.2	513.7	523.7	533.6	541.4	542.4	537.3	534.0	530.5	529.9
535.4	17.5°	536.4	538.3	547.5	557.2	557.8	554.3	546.7	543.6	540.3	538.1
568.8	20°	567.0	566.4	573.0	577.1	572.7	562.1	550.6	545.5	542.2	539.5
609.9	22.5°	603.5	598.8	598.0	597.0	585.5	563.1	547.5	540.9	535.8	532.1
667.1	25°	656.6	638.6	626.1	619.1	593.3	557.6	537.7	523.1	513.5	507.1
737.1	27.5°	723.1	692.8	661.2	644.1	593.3	546.3	513.9	490.3	474.5	467.9
804.8	30°	786.5	754.7	708.1	674.3	591.8	527.8	475.5	442.7	424.2	417.7
862.6	32.5°	840.7	806.0	758.0	707.3	588.3	497.9	427.9	391.6	373.8	366.0
919.8	35°	890.9	854.0	808.0	743.6	579.1	454.0	375.6	347.9	328.0	315.5
978.1	37.5°	942.4	898.5	855.4	776.4	562.5	402.7	335.4	311.8	288.4	271.6
1040.1	40°	998.4	945.9	906.1	795.9	535.2	353.9	304.2	282.7	257.9	240.0
1111.4	42.5°	1063.8	1002.7	962.5	806.0	497.9	319.2	283.9	262.8	239.4	224.8
1188.0	45°	1132.2	1065.3	1014.0	805.8	456.2	303.0	277.3	256.4	230.6	215.4
1266.5	47.5°	1203.8	1130.7	1058.5	792.7	420.1	305.2	273.7	242.7	214.2	199.4
1345.9	50°	1275.5	1202.3	1101.6	768.0	404.7	300.3	259.9	223.4	189.8	176.4
1420.4	52.5°	1346.7	1278.4	1138.7	733.0	389.1	282.1	242.3	198.4	179.7	170.5
1497.3	55°	1418.3	1353.7	1179.1	681.9	350.2	260.7	212.7	188.9	171.7	163.3
1572.6	57.5°	1490.1	1440.7	1217.5	630.8	301.1	234.5	196.5	177.4	163.7	156.5
1635.6	60°	1564.8	1540.2	1257.1	583.8	252.7	200.8	184.6	168.2	154.3	146.3
1696.1	62.5°	1641.7	1649.7	1288.1	523.3	208.2	180.3	174.0	157.1	143.6	136.0
1746.1	65°	1719.3	1755.4	1308.4	439.4	168.8	160.8	162.5	145.0	131.3	124.7
1782.9	67.5°	1777.7	1831.5	1302.6	332.5	138.5	142.4	148.1	132.3	119.4	114.3
1776.9	70°	1784.3	1822.4	1246.0	227.7	115.9	124.3	132.1	119.8	106.5	102.8
1693.2	72.5°	1696.9	1699.4	1088.3	148.7	98.1	109.1	115.3	107.1	94.2	90.5
1481.3	75°	1467.8	1405.4	799.0	98.1	82.1	93.7	99.5	93.7	81.2	82.1
1108.4	77.5°	1112.1	995.3	485.2	69.7	68.5	78.8	86.6	82.5	71.8	80.6
557.4	80°	573.0	538.5	216.4	52.1	54.2	63.0	71.2	65.8	56.8	54.2
124.5	82.5°	131.3	152.6	85.3	37.3	39.2	45.3	54.4	49.4	40.8	34.5
51.9	85°	46.0	50.3	37.7	23.4	23.0	28.3	36.9	33.0	27.7	22.2
21.9	87.5°	14.6	19.1	14.2	9.4	9.8	12.7	17.0	15.6	12.9	8.4
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>
435.7
447.6
466.5
488.0
507.7
518.6
529.9
538.3
539.7
533.4
509.6
471.2
421.6
369.9
319.6
276.1
243.5
227.7
217.9
201.4
177.2
170.5
162.5
155.3
145.6
135.8
124.5
114.5
103.0
90.3
79.2
71.0
49.4
34.1
23.4
8.8
0.0

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