

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: P944997

Luminaire Tested: **GALN-SB1A-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
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-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3894 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

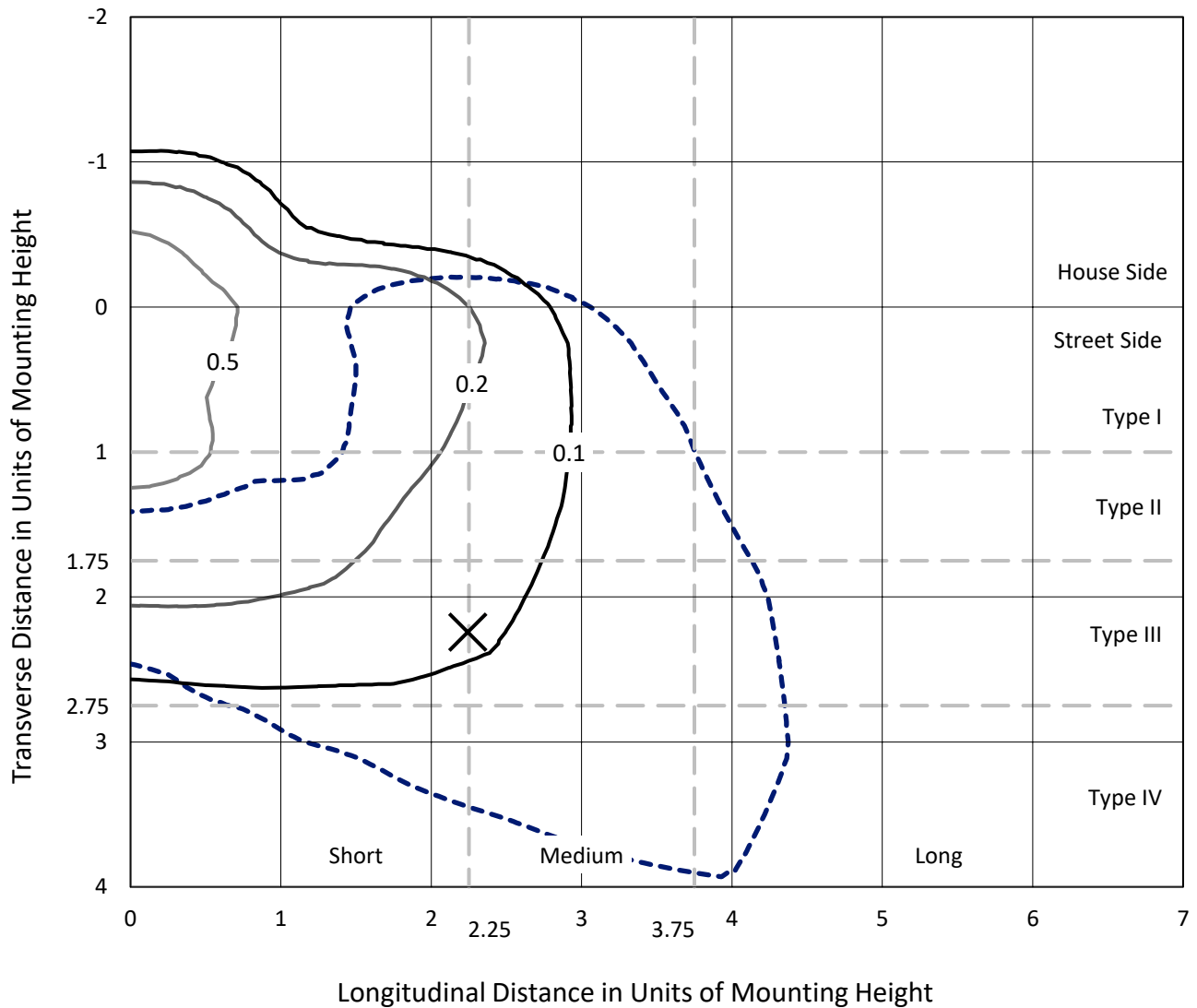
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

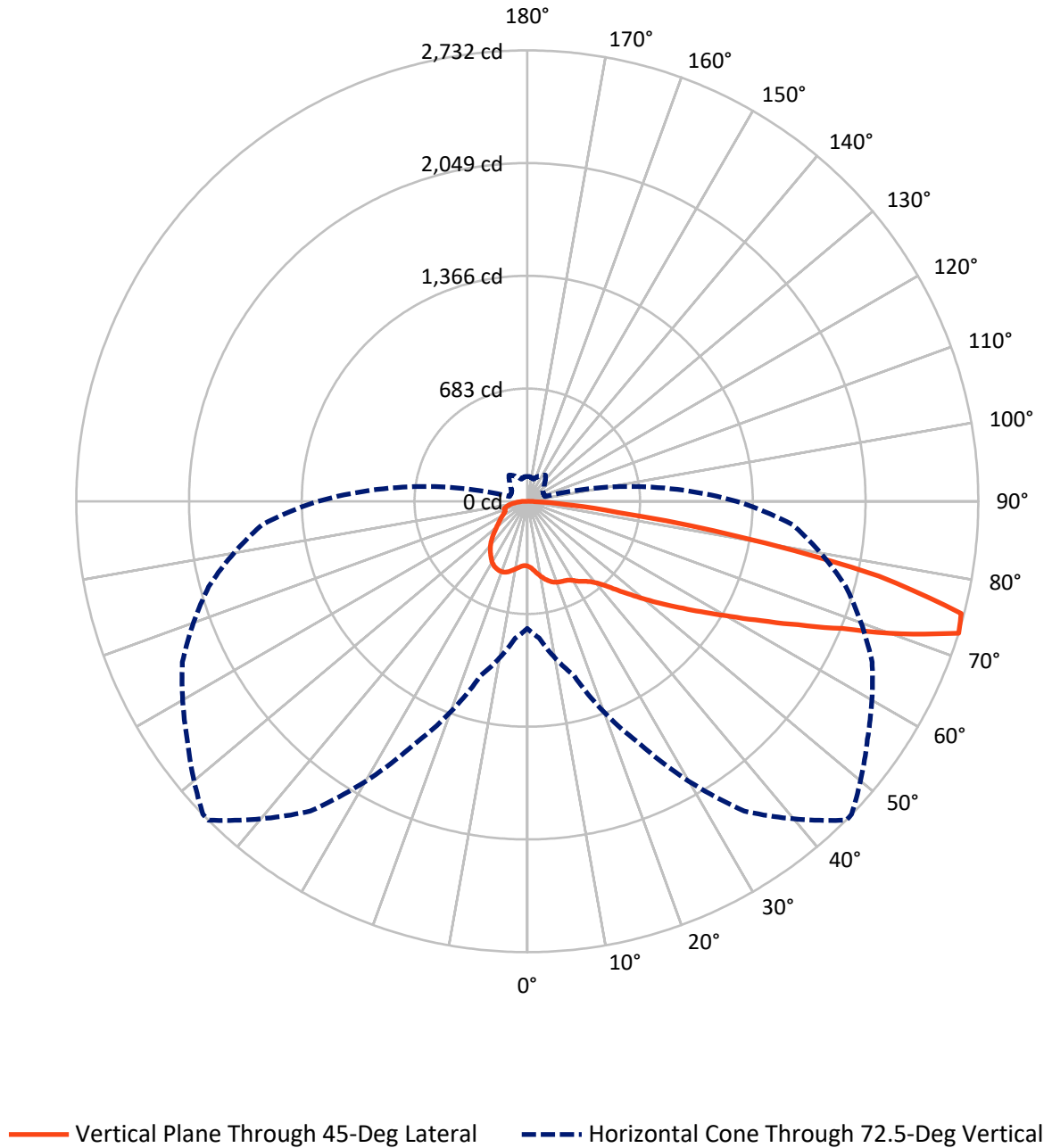
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	880.3	0.0	880.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	3013.7	0.0	3013.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	3894.0	0.0	3894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.0	1.0
10°-20°	133.3	3.4
20°-30°	231.9	6.0
30°-40°	332.4	8.5
40°-50°	468.1	12.0
50°-60°	717.0	18.4
60°-70°	1038.6	26.7
70°-80°	829.4	21.3
80°-90°	103.3	2.7
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°	3894.0	100.0
0°-180°	3894.0	100.0

Coefficient of Utilization



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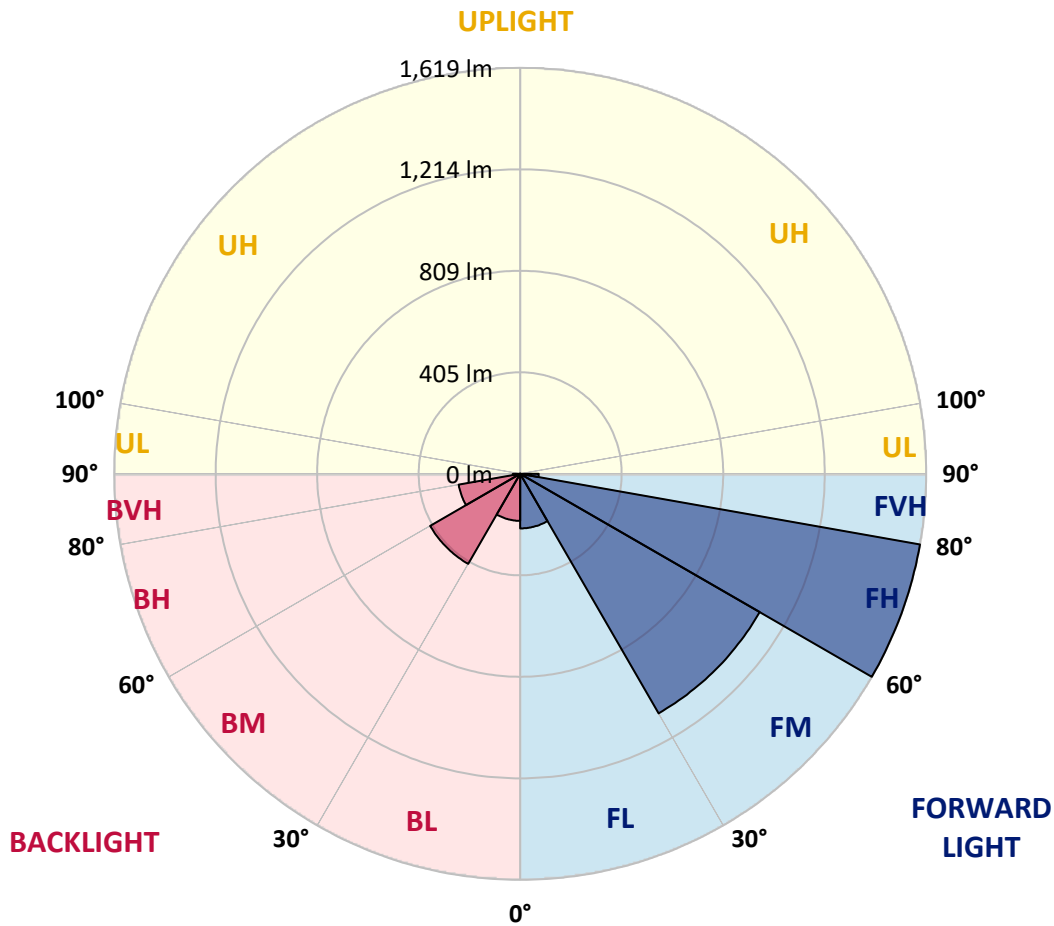
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	217.8	5.6			
FM (30°-60°)	1103.0	28.3			
FH (60°-80°)	1618.8	41.6			G1/1800
FVH (80°-90°)	74.1	1.9			G1/100
BL (0°-30°)	187.4	4.8	B1/500		
BM (30°-60°)	414.5	10.6	B1/1000		
BH (60°-80°)	249.2	6.4	B1/500		G1/500
BVH (80°-90°)	29.2	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	392.8	392.8	392.8	392.8	392.8	392.8	392.8	392.8	392.8	392.8
2.5°	408.2	410.9	408.4	406.2	405.1	402.5	402.3	400.6	399.6	396.7
5°	436.7	440.2	436.1	431.6	427.5	420.9	420.1	415.4	410.1	403.9
7.5°	468.9	472.0	467.3	460.5	453.3	442.5	442.3	433.7	425.2	414.8
10°	497.0	501.1	494.8	485.5	476.5	464.2	462.8	452.9	442.3	428.7
12.5°	521.9	524.7	518.6	507.3	496.8	484.5	482.7	471.8	459.9	444.5
15°	541.5	545.2	537.0	524.9	513.9	501.8	500.1	490.3	478.4	462.2
17.5°	554.5	557.6	549.1	535.6	524.9	514.9	513.7	505.4	495.0	478.6
20°	559.4	562.7	553.9	540.1	530.3	522.5	521.9	515.9	508.7	493.8
22.5°	564.3	567.4	555.9	541.5	532.9	528.0	527.8	523.9	521.0	508.7
25°	584.2	585.0	569.7	548.9	536.6	532.3	532.1	531.9	533.1	523.5
27.5°	601.4	601.2	588.1	568.6	549.6	540.5	540.3	542.4	546.3	538.3
30°	626.7	624.4	608.8	588.5	571.1	557.1	555.9	554.1	557.1	550.8
32.5°	680.2	673.0	647.8	611.7	588.9	578.3	576.6	565.1	566.4	562.5
35°	756.9	747.5	713.9	655.6	611.1	595.9	595.1	580.5	578.1	574.6
37.5°	848.2	836.5	797.4	719.2	649.2	616.4	615.2	602.1	592.0	588.3
40°	939.9	925.1	892.7	796.7	705.5	650.7	646.8	626.9	615.4	609.2
42.5°	1028.9	1016.6	988.9	883.7	774.8	700.7	692.1	658.1	649.4	643.7
45°	1107.7	1096.6	1076.3	976.6	856.0	768.8	760.4	704.8	702.2	702.2
47.5°	1171.7	1169.3	1147.7	1071.4	951.8	846.4	831.8	769.9	777.0	788.1
50°	1242.7	1235.9	1212.9	1164.7	1064.4	935.2	923.3	849.7	876.5	906.9
52.5°	1307.9	1311.6	1286.0	1262.0	1191.6	1034.3	1013.4	943.8	1001.9	1052.1
55°	1375.0	1375.2	1368.0	1364.7	1325.0	1143.8	1120.8	1057.0	1149.4	1211.7
57.5°	1438.0	1438.4	1449.1	1478.0	1479.6	1270.2	1244.1	1196.1	1313.3	1376.8
60°	1494.2	1497.1	1526.2	1593.9	1615.6	1415.0	1390.4	1360.4	1482.7	1546.7
62.5°	1513.1	1523.5	1588.3	1684.5	1750.0	1592.6	1568.4	1550.6	1660.8	1720.2
65°	1481.1	1505.1	1630.4	1759.4	1888.2	1803.7	1779.7	1760.2	1845.8	1901.8
67.5°	1402.5	1433.5	1627.9	1838.0	2056.0	2057.7	2035.3	1989.6	2044.1	2065.7
70°	1195.5	1241.9	1484.5	1867.3	2248.7	2405.0	2383.4	2265.7	2242.1	2137.9
72.5°	770.3	832.6	1093.2	1625.9	2291.5	2731.7	2730.5	2514.9	2304.7	1997.6
75°	281.0	319.2	507.9	1020.5	1923.5	2715.1	2723.1	2472.3	2103.8	1543.0
77.5°	102.4	112.0	165.7	392.2	1183.0	2178.5	2195.1	1976.5	1497.5	774.4
80°	53.7	59.1	84.9	152.2	506.9	1293.8	1319.8	1174.6	703.8	233.2
82.5°	29.7	32.2	47.6	82.7	228.3	553.2	568.8	464.0	247.6	98.9
85°	16.0	17.0	22.4	45.1	111.6	191.8	196.1	138.7	98.7	58.1
87.5°	4.7	5.7	7.4	14.4	43.7	43.1	44.1	27.5	39.0	29.3
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°
392.8	0°	392.8	392.8	392.8	392.8	392.8	392.8	392.8	392.8	392.8	392.8
395.9	2.5°	394.7	394.1	391.8	390.8	389.5	389.3	390.4	390.6	390.8	391.0
400.4	5°	398.4	396.3	394.3	393.0	393.4	393.6	395.7	397.1	398.2	399.0
408.8	7.5°	405.5	403.9	400.4	400.2	400.8	402.7	405.3	408.6	410.5	411.9
419.7	10°	416.2	413.1	409.0	409.6	410.9	413.5	419.1	421.8	424.8	427.5
433.0	12.5°	427.1	424.4	419.7	420.1	422.2	426.9	432.2	435.5	437.5	439.6
447.4	15°	441.2	436.5	431.4	431.4	435.1	440.2	442.7	445.3	446.6	448.8
462.8	17.5°	455.8	449.7	442.9	442.5	447.0	449.4	450.9	451.3	451.7	454.2
477.8	20°	470.4	463.6	454.0	453.1	454.2	453.8	453.5	453.1	453.8	456.8
493.1	22.5°	484.7	476.9	463.6	459.9	457.0	453.1	452.9	452.7	453.1	456.2
509.8	25°	501.5	492.1	474.3	463.2	453.5	448.2	448.8	449.0	449.4	451.9
527.0	27.5°	519.8	509.3	484.1	462.2	444.7	441.0	440.0	440.6	442.1	446.0
544.2	30°	538.1	525.8	493.1	458.1	433.7	428.5	425.2	426.7	431.2	435.1
559.2	32.5°	554.7	542.4	500.3	449.0	419.5	411.5	407.2	409.0	413.5	415.0
575.8	35°	574.2	560.2	503.4	434.7	404.1	391.8	386.1	383.4	385.6	384.2
595.3	37.5°	595.9	581.3	503.0	415.8	386.1	371.9	363.9	353.9	349.1	344.2
624.0	40°	628.1	607.2	498.1	393.0	363.7	350.8	336.4	319.4	308.7	299.1
670.4	42.5°	672.0	643.1	489.0	368.0	338.5	326.4	306.9	287.0	270.2	254.2
740.7	45°	737.5	690.1	477.8	341.3	311.2	299.3	278.2	255.8	236.7	216.2
840.6	47.5°	831.8	753.2	467.1	311.0	282.5	271.6	252.5	231.8	209.2	189.3
985.0	50°	961.5	843.9	457.2	281.4	254.2	246.0	230.8	209.6	186.9	170.9
1154.3	52.5°	1126.4	967.2	453.1	252.9	227.7	224.6	212.5	192.8	171.3	157.7
1351.6	55°	1315.7	1114.7	453.1	225.6	204.5	205.5	197.1	178.9	160.2	148.1
1555.1	57.5°	1509.0	1264.0	444.9	200.4	184.8	189.1	183.8	167.8	151.0	138.5
1769.1	60°	1687.0	1389.2	411.7	177.4	167.4	174.2	170.7	156.9	136.4	126.0
1947.9	62.5°	1823.8	1459.7	347.7	159.2	153.0	160.8	159.0	142.6	133.7	129.4
2094.8	65°	1892.3	1448.2	265.9	143.0	140.9	153.0	149.1	148.5	141.5	136.6
2142.6	67.5°	1850.3	1349.4	192.8	131.1	134.0	145.8	160.8	163.3	150.4	140.7
2008.0	70°	1665.9	1170.5	143.6	119.8	125.1	146.1	183.4	170.9	147.5	136.2
1610.5	72.5°	1267.3	872.8	111.4	107.9	113.6	147.1	193.4	167.4	139.3	150.6
1003.3	75°	724.7	479.2	89.4	93.3	99.3	137.4	188.3	158.4	132.9	138.3
397.5	77.5°	276.3	184.2	73.8	79.0	79.8	120.0	180.1	157.7	126.6	123.5
119.2	80°	95.8	72.0	61.1	62.8	61.7	106.7	172.7	137.2	103.6	92.7
49.2	82.5°	39.2	35.9	48.4	46.4	43.9	82.9	139.5	112.2	84.7	74.9
23.8	85°	17.0	22.8	32.0	28.1	25.4	57.4	111.8	95.0	71.6	61.7
7.8	87.5°	3.5	8.6	13.5	12.7	13.1	38.4	79.4	67.5	50.7	37.9
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>
392.8
391.8
399.4
412.3
426.9
440.4
449.7
455.0
458.1
458.3
455.2
449.9
439.4
420.1
388.7
347.3
299.7
252.7
213.7
187.1
169.8
156.7
146.9
136.4
124.3
128.0
135.0
139.1
134.4
149.3
138.3
112.6
89.6
74.1
61.5
29.7
0.0

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