

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: P945459

Luminaire Tested: **GALN-SB1B-927-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945459
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-SB1B-927-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3422 lumens
Efficiency: N/A
Efficacy: 86.0 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

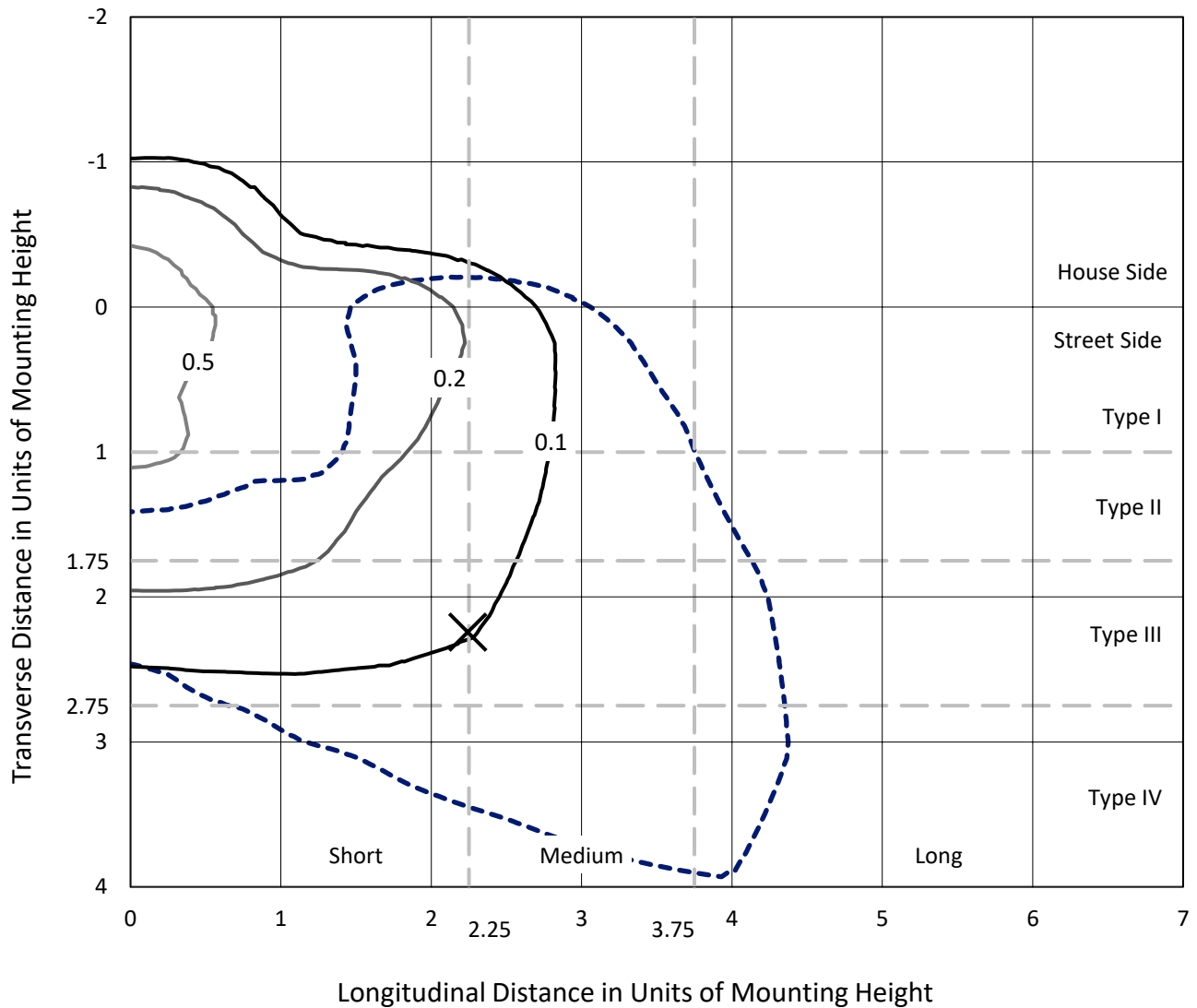
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

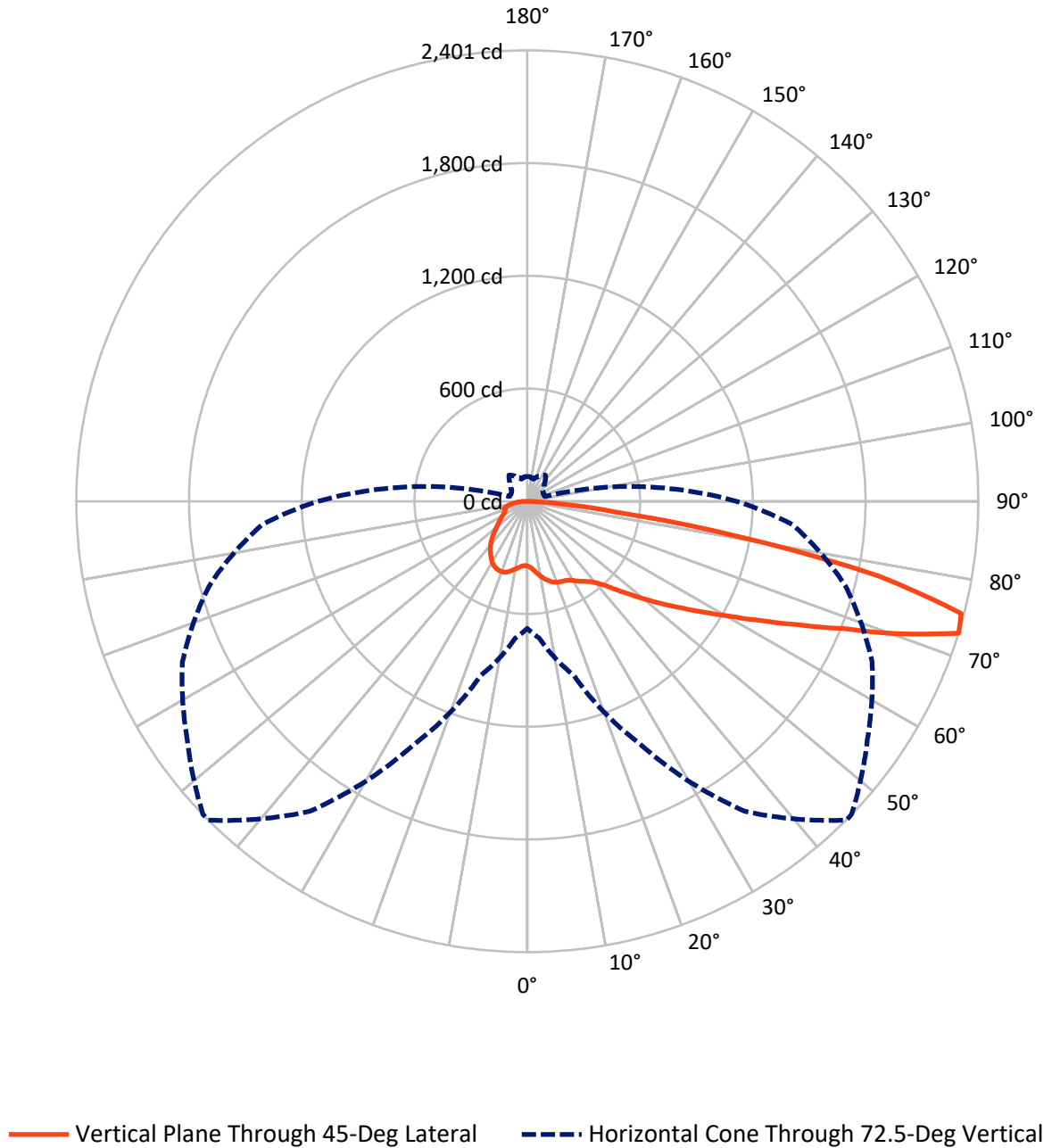
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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	773.6	0.0	773.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	2648.4	0.0	2648.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	3422.0	0.0	3422.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.1	1.0
10°-20°	117.1	3.4
20°-30°	203.8	6.0
30°-40°	292.1	8.5
40°-50°	411.3	12.0
50°-60°	630.1	18.4
60°-70°	912.7	26.7
70°-80°	728.9	21.3
80°-90°	90.8	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°	3422.0	100.0
0°-180°	3422.0	100.0

Coefficient of Utilization

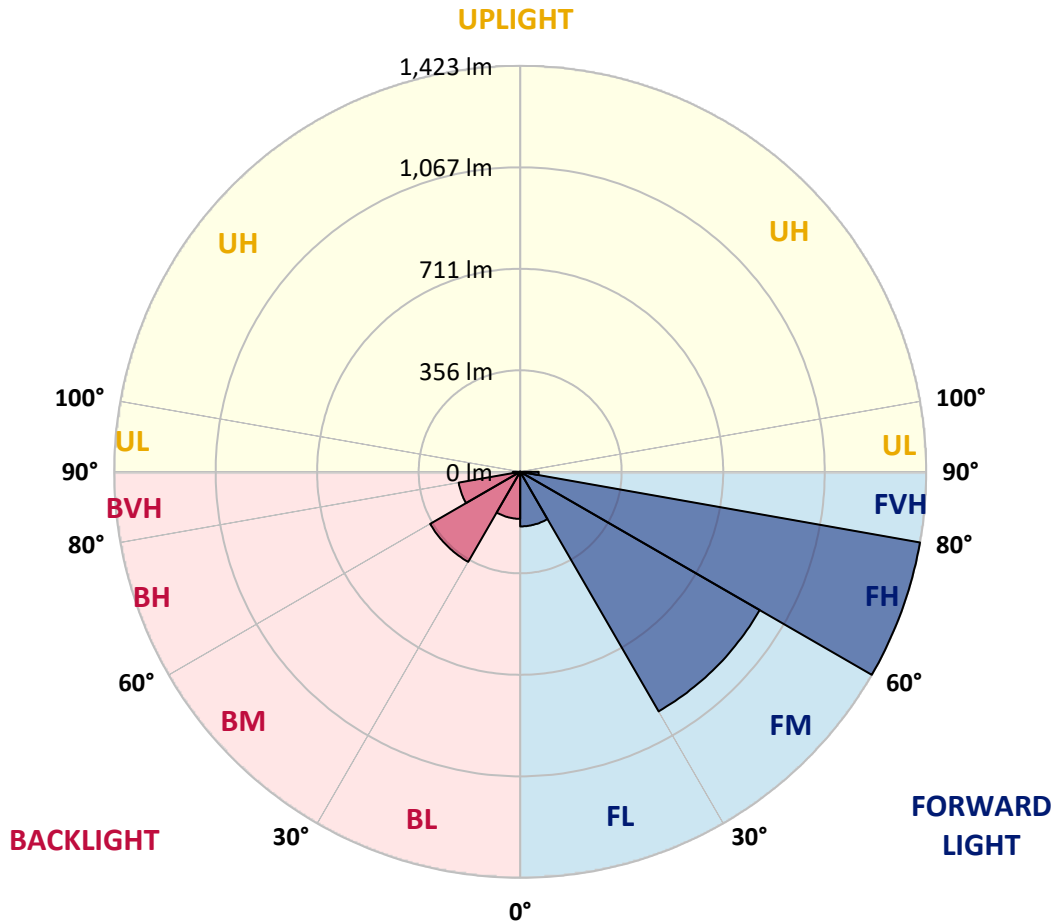


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	191.4	5.6			
FM (30°-60°)	969.3	28.3			
FH (60°-80°)	1422.6	41.6			G1/1800
FVH (80°-90°)	65.1	1.9			G1/100
BL (0°-30°)	164.7	4.8	B1/500		
BM (30°-60°)	364.3	10.6	B1/1000		
BH (60°-80°)	219.0	6.4	B1/500		G1/500
BVH (80°-90°)	25.7	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°	345.2	345.2	345.2	345.2	345.2	345.2	345.2	345.2	345.2	345.2
2.5°	358.7	361.1	358.9	356.9	356.0	353.7	353.5	352.1	351.2	348.6
5°	383.8	386.9	383.2	379.3	375.7	369.9	369.2	365.0	360.4	354.9
7.5°	412.1	414.8	410.7	404.7	398.4	388.8	388.7	381.1	373.7	364.5
10°	436.8	440.4	434.8	426.7	418.8	407.9	406.7	398.0	388.7	376.8
12.5°	458.6	461.1	455.7	445.8	436.6	425.8	424.2	414.6	404.2	390.6
15°	475.9	479.2	471.9	461.3	451.6	440.9	439.5	430.8	420.4	406.1
17.5°	487.3	490.0	482.6	470.7	461.3	452.5	451.4	444.2	435.0	420.6
20°	491.6	494.5	486.7	474.6	466.0	459.1	458.6	453.4	447.1	433.9
22.5°	495.9	498.6	488.5	475.9	468.3	464.0	463.8	460.4	457.9	447.1
25°	513.4	514.1	500.6	482.4	471.6	467.8	467.6	467.4	468.5	460.0
27.5°	528.5	528.4	516.8	499.7	482.9	475.0	474.8	476.6	480.1	473.0
30°	550.7	548.7	535.0	517.2	501.9	489.6	488.5	486.9	489.6	484.0
32.5°	597.8	591.5	569.3	537.6	517.5	508.2	506.7	496.6	497.7	494.3
35°	665.2	656.9	627.3	576.1	537.0	523.7	523.0	510.2	508.0	504.9
37.5°	745.4	735.1	700.7	632.0	570.5	541.7	540.6	529.1	520.3	517.0
40°	826.0	813.0	784.5	700.2	619.9	571.8	568.4	550.9	540.8	535.4
42.5°	904.2	893.4	869.1	776.6	680.9	615.8	608.2	578.3	570.7	565.7
45°	973.4	963.7	945.9	858.3	752.3	675.6	668.3	619.4	617.1	617.1
47.5°	1029.7	1027.5	1008.6	941.5	836.4	743.8	731.0	676.5	682.9	692.6
50°	1092.1	1086.1	1065.9	1023.6	935.4	821.8	811.4	746.7	770.3	797.0
52.5°	1149.4	1152.6	1130.1	1109.0	1047.2	908.9	890.5	829.4	880.4	924.6
55°	1208.3	1208.5	1202.2	1199.3	1164.4	1005.2	985.0	928.9	1010.0	1064.8
57.5°	1263.7	1264.0	1273.4	1298.8	1300.3	1116.2	1093.3	1051.1	1154.1	1210.0
60°	1313.1	1315.6	1341.2	1400.7	1419.8	1243.5	1221.9	1195.5	1303.0	1359.2
62.5°	1329.7	1338.9	1395.8	1480.4	1537.9	1399.6	1378.3	1362.6	1459.4	1511.7
65°	1301.5	1322.6	1432.8	1546.2	1659.4	1585.1	1564.0	1546.9	1622.1	1671.3
67.5°	1232.5	1259.7	1430.6	1615.2	1806.8	1808.3	1788.6	1748.4	1796.4	1815.3
70°	1050.6	1091.3	1304.6	1641.0	1976.1	2113.5	2094.5	1991.1	1970.3	1878.8
72.5°	676.9	731.7	960.6	1428.8	2013.8	2400.6	2399.5	2210.1	2025.3	1755.4
75°	247.0	280.5	446.3	896.8	1690.4	2386.0	2393.1	2172.6	1848.8	1356.0
77.5°	90.0	98.4	145.7	344.7	1039.6	1914.4	1929.0	1736.9	1316.0	680.5
80°	47.2	51.9	74.6	133.8	445.4	1137.0	1159.8	1032.2	618.5	205.0
82.5°	26.1	28.3	41.8	72.6	200.6	486.2	499.9	407.8	217.6	86.9
85°	14.1	15.0	19.6	39.7	98.1	168.6	172.3	121.9	86.7	51.0
87.5°	4.1	5.0	6.5	12.6	38.4	37.9	38.8	24.2	34.3	25.8
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°
345.2	0°	345.2	345.2	345.2	345.2	345.2	345.2	345.2	345.2	345.2	345.2
347.9	2.5°	346.8	346.3	344.3	343.4	342.3	342.1	343.0	343.2	343.4	343.6
351.9	5°	350.1	348.3	346.5	345.4	345.8	345.9	347.7	349.0	349.9	350.6
359.3	7.5°	356.4	354.9	351.9	351.7	352.2	353.9	356.2	359.1	360.7	362.0
368.8	10°	365.8	363.1	359.5	360.0	361.1	363.4	368.3	370.6	373.3	375.7
380.5	12.5°	375.3	373.0	368.8	369.2	371.0	375.1	379.8	382.7	384.5	386.3
393.2	15°	387.8	383.6	379.1	379.1	382.3	386.9	389.0	391.4	392.4	394.4
406.7	17.5°	400.6	395.1	389.2	388.8	392.8	395.0	396.2	396.6	397.0	399.1
419.8	20°	413.4	407.4	398.9	398.2	399.1	398.8	398.6	398.2	398.8	401.5
433.4	22.5°	426.0	419.1	407.4	404.2	401.6	398.2	398.0	397.9	398.2	400.9
448.0	25°	440.8	432.5	416.8	407.0	398.6	393.9	394.4	394.6	395.0	397.1
463.1	27.5°	456.8	447.6	425.4	406.1	390.8	387.6	386.7	387.2	388.5	391.9
478.3	30°	472.8	462.0	433.4	402.5	381.1	376.6	373.7	375.0	378.9	382.3
491.4	32.5°	487.4	476.6	439.7	394.6	368.6	361.6	357.8	359.5	363.4	364.7
506.0	35°	504.6	492.3	442.4	382.0	355.1	344.3	339.3	336.9	338.9	337.6
523.1	37.5°	523.7	510.9	442.0	365.4	339.3	326.8	319.8	311.0	306.8	302.5
548.4	40°	552.0	533.6	437.7	345.4	319.6	308.3	295.6	280.7	271.3	262.8
589.1	42.5°	590.6	565.1	429.8	323.4	297.4	286.8	269.7	252.2	237.4	223.4
650.9	45°	648.1	606.4	419.8	300.0	273.5	263.0	244.4	224.8	208.0	190.0
738.7	47.5°	731.0	661.9	410.5	273.3	248.2	238.7	221.9	203.7	183.9	166.4
865.6	50°	844.9	741.6	401.8	247.3	223.4	216.1	202.8	184.2	164.2	150.2
1014.4	52.5°	989.9	850.0	398.2	222.3	200.1	197.4	186.8	169.5	150.5	138.6
1187.8	55°	1156.2	979.6	398.2	198.3	179.7	180.6	173.2	157.2	140.8	130.2
1366.6	57.5°	1326.1	1110.8	391.0	176.1	162.4	166.2	161.5	147.5	132.7	121.7
1554.6	60°	1482.5	1220.8	361.8	155.9	147.1	153.0	150.0	137.9	119.9	110.7
1711.8	62.5°	1602.8	1282.8	305.6	139.9	134.5	141.3	139.7	125.3	117.5	113.7
1840.9	65°	1663.0	1272.7	233.6	125.6	123.8	134.5	131.1	130.5	124.4	120.1
1882.9	67.5°	1626.0	1185.8	169.5	115.2	117.7	128.2	141.3	143.5	132.1	123.7
1764.6	70°	1464.0	1028.6	126.2	105.3	110.0	128.4	161.2	150.2	129.6	119.7
1415.3	72.5°	1113.7	767.0	97.9	94.8	99.9	129.3	170.0	147.1	122.4	132.3
881.7	75°	636.9	421.1	78.6	82.0	87.2	120.8	165.5	139.2	116.8	121.5
349.4	77.5°	242.8	161.9	64.9	69.4	70.1	105.5	158.3	138.6	111.2	108.5
104.7	80°	84.2	63.3	53.7	55.2	54.3	93.7	151.8	120.6	91.0	81.5
43.3	82.5°	34.4	31.5	42.5	40.7	38.6	72.8	122.6	98.6	74.5	65.8
20.9	85°	15.0	20.0	28.1	24.7	22.4	50.5	98.2	83.5	62.9	54.3
6.9	87.5°	3.1	7.6	11.9	11.2	11.5	33.7	69.8	59.3	44.5	33.3
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

180°
345.2
344.3
351.0
362.3
375.1
387.0
395.1
399.8
402.5
402.7
400.0
395.3
386.1
369.2
341.6
305.2
263.4
222.1
187.8
164.4
149.3
137.7
129.1
119.9
109.2
112.5
118.6
122.2
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