

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: P939174

Luminaire Tested: **GALN-SB1C-927-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-927-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH
HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3330 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

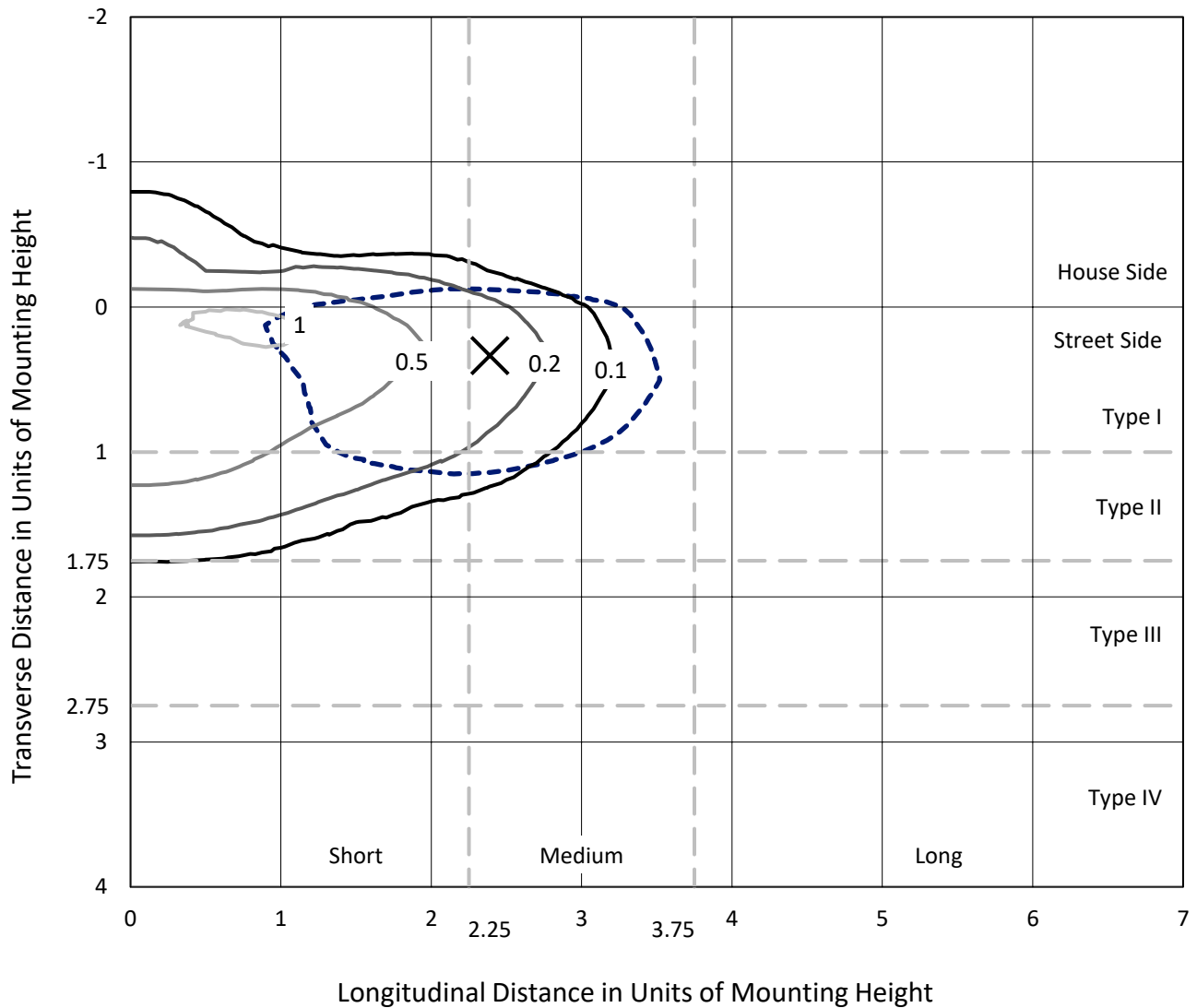
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

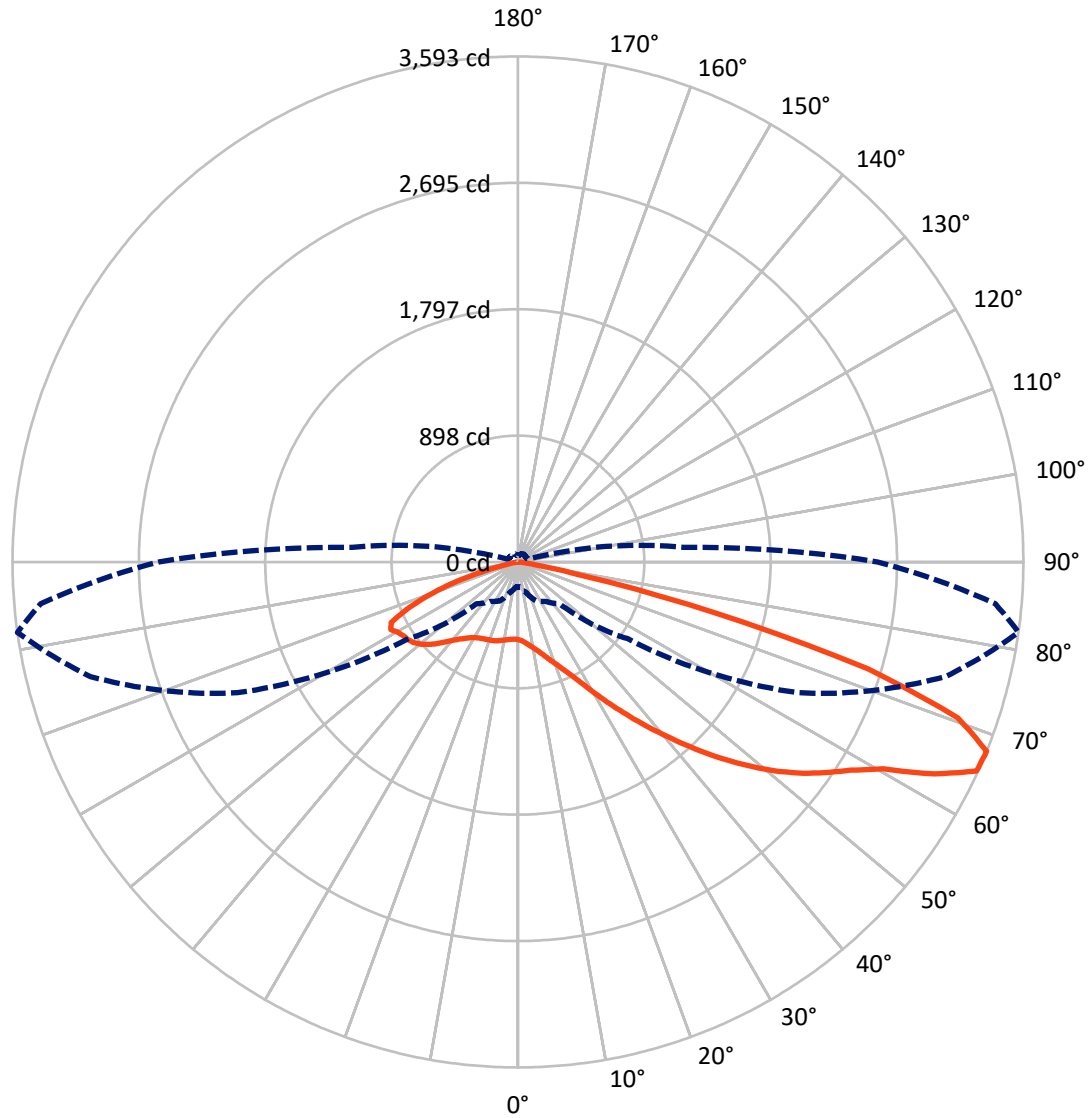
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	603.2	0.0	603.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	2726.8	0.0	2726.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	3330.0	0.0	3330.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	1.5
10°-20°	127.7	3.8
20°-30°	204.6	6.1
30°-40°	361.7	10.9
40°-50°	633.8	19.0
50°-60°	845.3	25.4
60°-70°	786.9	23.6
70°-80°	302.0	9.1
80°-90°	18.8	0.6
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°	3330.0	100.0
0°-180°	3330.0	100.0

Coefficient of Utilization



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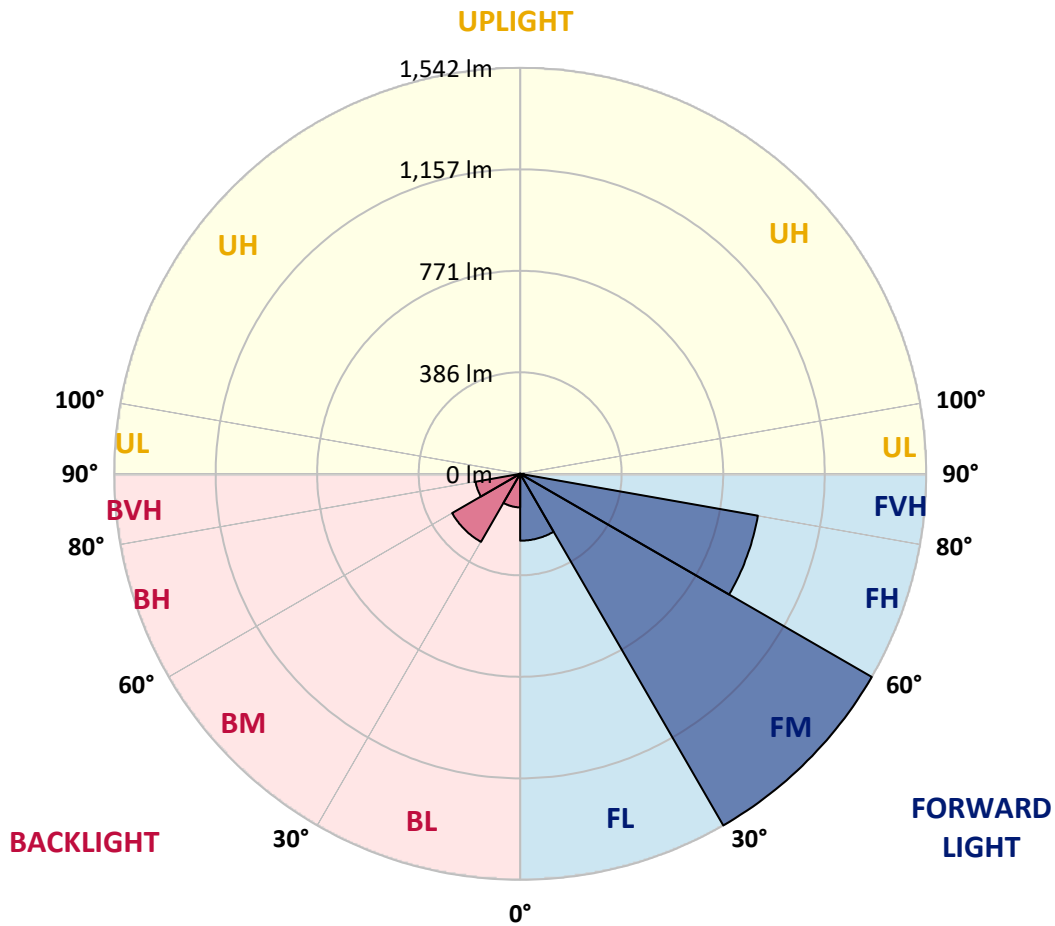
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	254.0	7.6			
FM (30°-60°)	1542.3	46.3			
FH (60°-80°)	916.8	27.5			G1/1800
FVH (80°-90°)	13.6	0.4			G1/100
BL (0°-30°)	127.4	3.8	B1/500		
BM (30°-60°)	298.5	9.0	B1/1000		
BH (60°-80°)	172.2	5.2	B1/500		G1/500
BVH (80°-90°)	5.1	0.2			G0/10
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	551.7	551.7	551.7	551.7	551.7	551.7	551.7	551.7	551.7	551.7
2.5°	583.1	586.4	584.5	583.6	581.9	579.5	577.6	571.6	565.3	561.3
5°	594.8	598.2	597.9	598.9	600.1	600.8	600.3	593.6	584.8	577.8
7.5°	584.8	588.6	591.7	596.5	604.9	613.8	618.1	616.6	607.5	597.9
10°	556.2	560.3	567.7	579.0	596.7	615.9	632.0	639.4	633.7	623.1
12.5°	504.0	508.0	522.7	547.1	576.8	610.2	640.9	660.8	662.2	651.6
15°	445.2	449.3	464.9	495.6	540.9	594.3	645.7	683.3	696.0	686.9
17.5°	408.8	412.4	424.1	448.8	496.0	562.7	644.0	707.3	736.3	729.1
20°	397.7	400.9	406.4	423.6	463.0	529.9	632.9	729.8	779.7	775.6
22.5°	409.5	412.4	414.1	421.7	446.4	508.3	619.0	752.8	830.0	830.5
25°	436.6	439.5	437.5	442.3	453.1	501.6	613.8	779.9	893.3	898.6
27.5°	481.2	481.4	476.9	476.6	478.3	511.6	619.3	808.9	973.2	983.0
30°	570.6	567.0	549.5	530.6	521.9	541.8	634.6	843.2	1067.4	1084.9
32.5°	708.5	703.2	671.1	625.8	580.2	590.5	662.2	882.3	1170.0	1201.6
35°	858.1	856.6	823.1	755.7	676.1	659.8	707.0	933.6	1282.0	1332.3
37.5°	997.1	996.4	977.2	897.9	801.0	756.4	779.0	1000.7	1401.8	1474.7
40°	1124.2	1126.4	1107.2	1036.2	938.6	880.4	876.8	1083.7	1535.1	1629.8
42.5°	1234.0	1236.4	1217.0	1164.5	1074.6	1017.5	996.9	1185.3	1665.3	1796.5
45°	1308.6	1323.4	1320.6	1278.6	1214.1	1154.9	1141.2	1312.9	1813.7	1973.2
47.5°	1329.7	1343.3	1364.9	1370.7	1331.3	1273.1	1289.4	1466.6	1963.8	2150.1
50°	1277.6	1290.3	1335.2	1394.9	1422.2	1404.2	1433.5	1631.3	2117.5	2326.5
52.5°	1175.0	1188.0	1244.6	1339.0	1450.5	1507.1	1578.0	1793.6	2266.4	2493.7
55°	1026.6	1040.3	1112.9	1219.9	1396.6	1549.5	1698.6	1955.7	2402.8	2644.0
57.5°	824.7	834.8	910.3	1059.9	1260.9	1507.3	1787.6	2132.6	2531.3	2791.7
60°	537.5	546.4	634.1	801.0	1036.0	1366.3	1805.3	2329.9	2702.0	2983.7
62.5°	357.5	363.5	415.5	538.0	729.6	1095.7	1701.5	2487.4	2952.3	3317.9
65°	245.3	251.3	303.3	388.6	471.4	724.8	1403.0	2466.6	3179.1	3583.3
67.5°	175.0	180.1	224.2	304.7	341.2	421.0	951.1	2200.0	3146.5	3593.4
70°	125.4	128.3	164.7	237.4	271.2	252.9	528.9	1682.6	2755.0	3318.2
72.5°	87.7	88.7	114.4	180.8	218.4	184.6	251.7	1121.8	2083.7	2604.4
75°	59.5	60.7	77.0	132.6	175.3	141.0	133.3	601.5	1223.2	1441.6
77.5°	36.4	36.9	49.6	90.6	131.1	107.4	85.8	254.9	473.3	464.6
80°	20.6	20.6	31.6	56.3	89.4	69.3	60.2	108.4	149.8	131.6
82.5°	11.5	11.7	23.0	35.0	59.2	41.0	33.1	50.1	64.7	57.3
85°	4.8	5.3	14.1	16.5	28.3	20.4	13.4	21.1	24.0	21.3
87.5°	0.5	0.7	4.3	3.1	3.4	4.1	1.9	4.1	3.4	3.4
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°
551.7	0°	551.7	551.7	551.7	551.7	551.7	551.7	551.7	551.7	551.7	551.7
559.8	2.5°	555.3	551.7	542.6	532.0	518.1	511.4	502.3	496.0	490.8	491.3
573.7	5°	566.1	556.9	536.6	511.2	479.5	457.0	433.0	416.4	403.0	400.1
592.9	7.5°	580.9	566.5	530.8	485.0	431.6	391.0	354.8	331.6	315.0	309.8
616.2	10°	600.1	579.2	523.4	452.2	375.2	323.7	284.8	266.6	255.3	251.5
643.5	12.5°	622.4	593.9	513.5	412.1	317.2	267.6	242.9	233.8	230.2	229.0
677.1	15°	650.4	612.1	498.7	364.7	268.0	233.3	222.7	221.5	222.0	221.5
717.3	17.5°	683.8	632.0	474.5	315.8	235.0	215.8	211.9	212.9	214.1	213.9
762.4	20°	720.2	651.6	443.5	272.4	212.4	203.3	201.2	202.1	203.1	202.6
814.4	22.5°	761.7	672.7	409.3	238.6	197.3	191.8	189.4	189.6	189.6	188.7
880.4	25°	811.3	696.0	373.3	214.6	185.8	181.5	178.6	177.7	176.2	173.3
960.4	27.5°	870.5	720.7	338.8	197.8	176.7	172.6	169.3	166.9	163.3	158.5
1056.6	30°	937.2	750.7	309.5	187.2	169.5	165.4	161.6	158.0	152.7	146.7
1167.1	32.5°	1015.6	782.8	288.2	180.3	163.0	158.7	154.2	149.8	144.1	138.1
1291.3	35°	1109.1	821.6	275.7	175.5	158.0	152.2	147.2	142.4	138.1	132.8
1426.3	37.5°	1210.5	862.9	271.9	173.1	154.6	145.8	140.0	136.7	136.2	133.1
1572.3	40°	1321.5	911.8	274.8	171.7	151.0	139.5	133.3	132.6	133.8	128.3
1728.4	42.5°	1439.0	969.8	279.6	170.0	146.0	133.3	127.3	127.3	126.3	118.7
1893.3	45°	1566.1	1036.7	284.3	165.9	140.0	127.1	122.5	120.8	116.8	109.3
2059.2	47.5°	1694.1	1104.8	287.9	158.5	132.8	121.8	117.7	113.9	107.9	101.2
2222.0	50°	1815.6	1165.9	284.1	147.4	124.7	116.8	112.4	107.2	100.7	96.1
2376.2	52.5°	1924.2	1218.9	267.8	134.5	116.0	111.5	107.6	102.1	96.9	92.1
2515.2	55°	2018.7	1261.8	239.0	122.3	108.4	106.9	103.1	96.1	88.9	84.9
2653.1	57.5°	2109.3	1294.4	203.1	112.2	101.4	101.9	96.1	89.9	83.2	78.9
2838.9	60°	2229.9	1338.1	166.6	102.9	94.0	95.4	89.2	84.6	76.2	70.7
3157.5	62.5°	2422.7	1405.9	132.3	91.3	85.4	85.8	83.2	77.7	67.6	61.1
3393.7	65°	2575.7	1381.0	104.3	78.9	75.5	76.2	76.2	70.2	59.5	52.0
3406.4	67.5°	2558.4	1182.5	83.2	66.7	66.2	66.7	68.3	63.3	52.7	46.8
3147.0	70°	2356.8	940.5	66.7	55.4	57.5	56.3	61.1	57.8	47.5	41.5
2439.7	72.5°	1923.0	677.5	50.8	45.8	44.1	46.0	55.1	52.0	39.6	32.8
1292.3	75°	1123.7	361.5	37.9	36.2	31.9	38.4	48.9	44.4	30.2	24.2
396.1	77.5°	365.9	126.1	27.8	26.6	23.7	30.9	41.7	37.4	24.7	19.2
116.0	80°	98.1	38.1	18.9	17.5	15.3	23.0	33.1	29.7	17.7	12.5
49.9	82.5°	39.3	16.1	11.0	9.8	8.4	15.8	26.1	24.0	13.2	7.9
15.6	85°	12.7	5.3	4.1	3.1	3.8	9.8	15.6	16.3	9.4	4.1
2.4	87.5°	1.7	0.7	0.7	1.0	0.7	1.7	4.8	4.6	2.6	0.5
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>
551.7
486.5
393.7
304.5
248.6
228.2
221.3
213.4
202.4
188.2
172.9
158.0
146.2
138.3
132.3
132.8
128.5
118.7
109.1
100.9
95.4
91.6
84.4
78.4
70.0
60.7
51.3
45.8
40.8
32.1
23.5
18.5
12.2
7.9
3.1
0.0
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