

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: P945457

Luminaire Tested: **GALN-SB1B-927-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945457  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
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-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

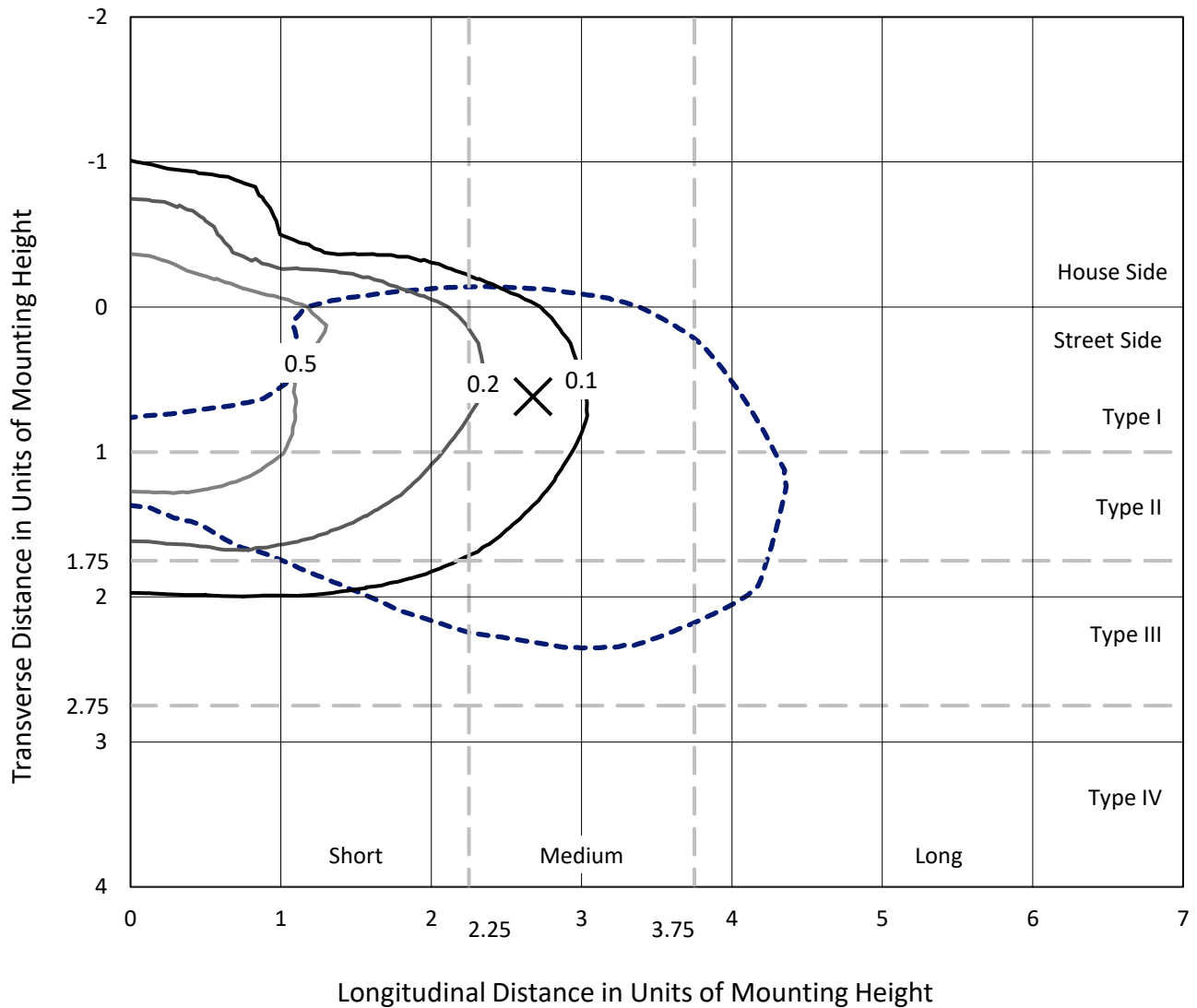
Lumens per Lamp: N/A  
Luminaire Lumens: 3520 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

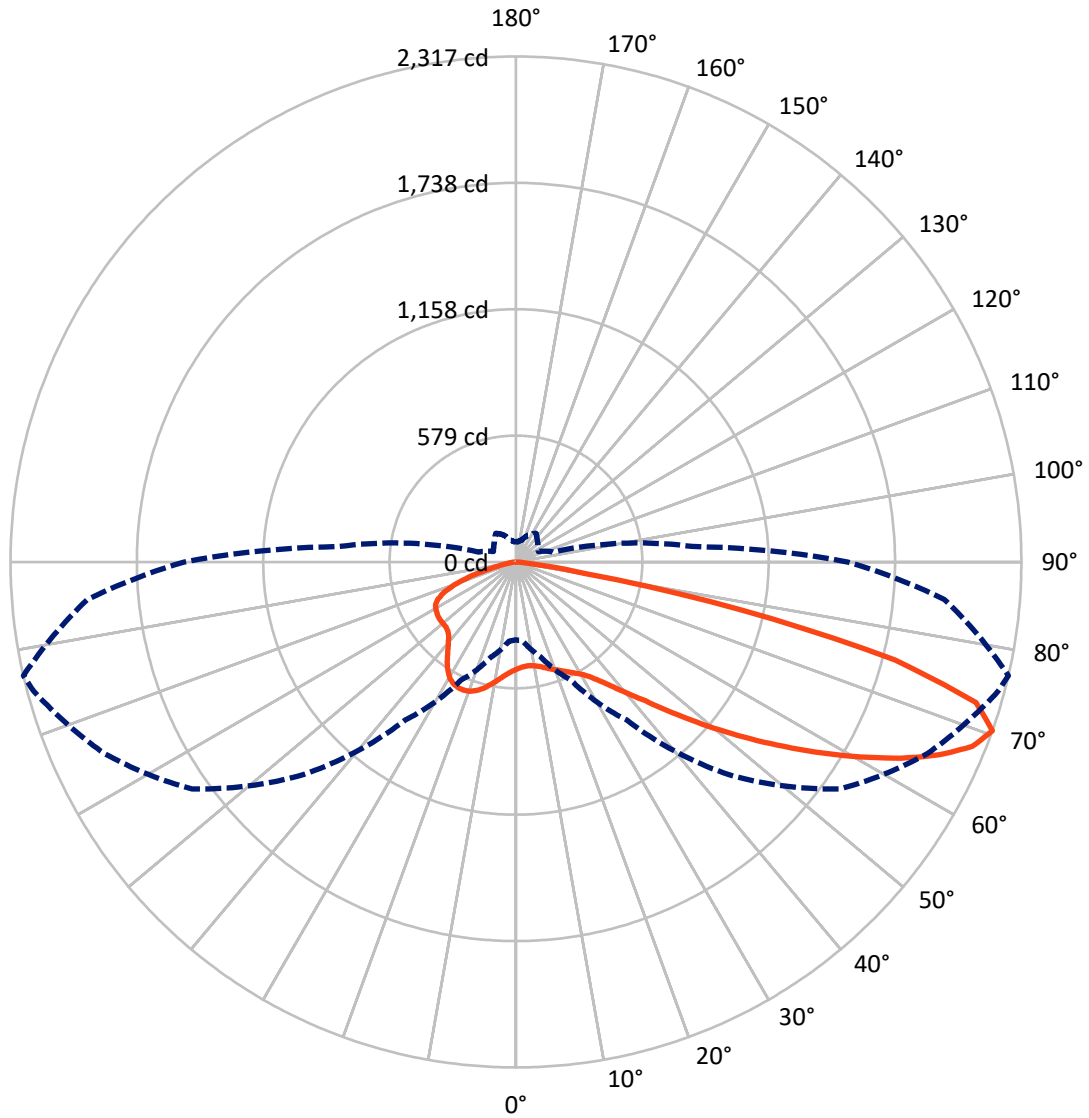
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	770.8	0.0	770.8
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	2749.2	0.0	2749.2
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	3520.0	0.0	3520.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.8	1.3
10°-20°	135.2	3.8
20°-30°	231.2	6.6
30°-40°	371.7	10.6
40°-50°	580.4	16.5
50°-60°	775.2	22.0
60°-70°	826.3	23.5
70°-80°	508.6	14.5
80°-90°	44.6	1.3
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°	3520.0	100.0
0°-180°	3520.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P945457

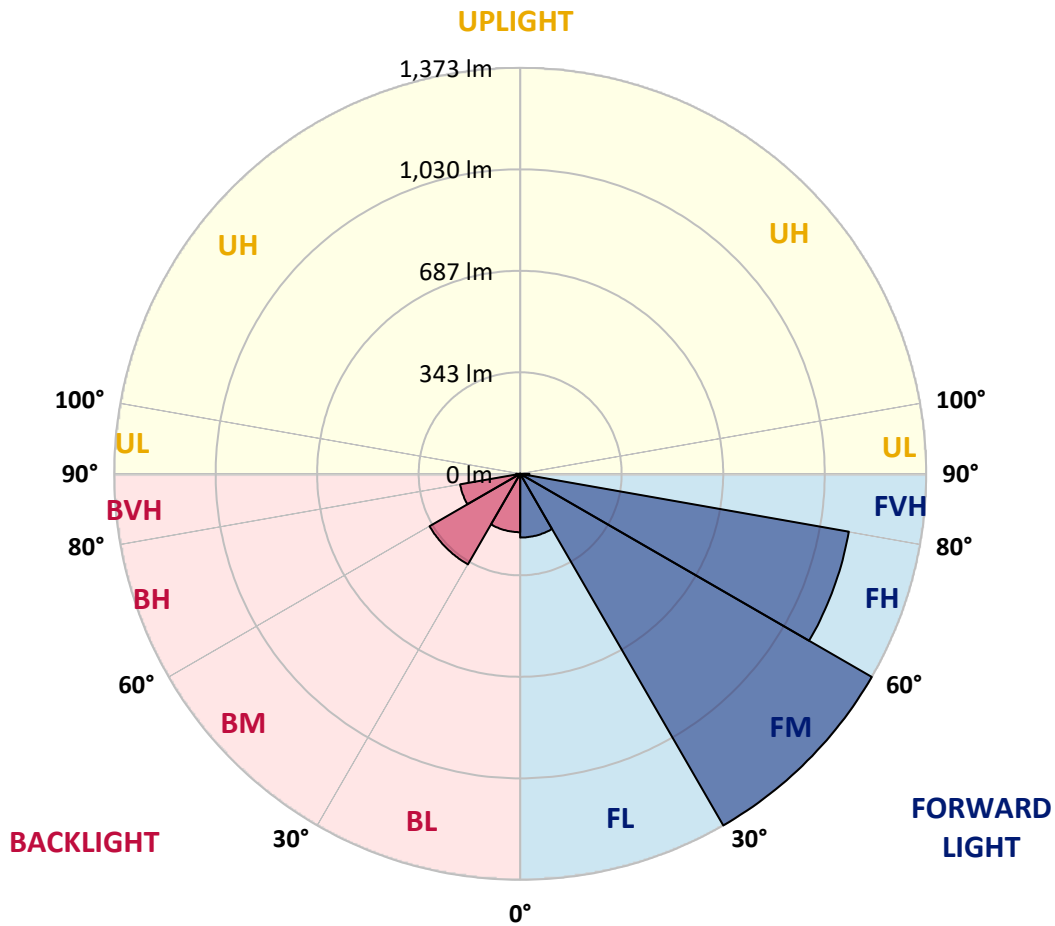
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	215.7	6.1			
FM (30°-60°)	1373.4	39.0			
FH (60°-80°)	1128.9	32.1			G1/1800
FVH (80°-90°)	31.2	0.9			G1/100
BL (0°-30°)	197.5	5.6	B1/500		
BM (30°-60°)	353.9	10.1	B1/1000		
BH (60°-80°)	206.0	5.9	B1/500		G1/500
BVH (80°-90°)	13.4	0.4			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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	491.1	491.1	491.1	491.1	491.1	491.1	491.1	491.1	491.1	491.1
2.5°	452.7	452.5	454.8	455.6	459.9	462.9	468.7	474.8	482.8	483.7
5°	426.5	426.5	429.2	432.1	437.7	443.8	452.7	463.3	477.0	479.2
7.5°	404.4	405.8	408.1	413.7	420.2	429.1	442.6	457.7	475.7	479.2
10°	386.5	388.1	391.0	395.5	405.3	417.5	435.2	454.7	478.8	484.2
12.5°	380.9	382.5	384.2	387.6	396.6	411.0	432.1	456.1	486.2	491.6
15°	393.9	395.9	394.6	393.7	398.4	411.6	433.6	461.3	495.4	503.2
17.5°	423.8	424.6	421.7	413.2	412.5	419.5	440.4	468.5	506.9	515.4
20°	472.1	470.9	464.9	448.2	438.6	437.2	452.1	479.4	518.8	527.8
22.5°	537.8	536.3	524.4	497.9	476.7	462.6	469.1	493.4	532.2	542.3
25°	619.6	617.6	600.1	564.1	531.1	496.3	492.2	512.0	548.6	558.0
27.5°	715.2	713.5	694.6	647.0	599.4	542.5	520.8	533.8	565.7	576.3
30°	817.9	822.6	789.1	737.9	677.7	602.7	559.4	560.7	587.9	597.4
32.5°	938.7	946.8	906.4	841.5	759.3	668.1	608.1	598.2	620.1	628.1
35°	1058.4	1067.6	1034.1	962.3	867.7	745.3	658.9	641.2	663.1	671.7
37.5°	1161.9	1174.1	1156.8	1094.5	983.6	838.3	725.3	691.9	715.9	726.7
40°	1243.5	1262.3	1261.0	1222.1	1120.2	951.1	809.4	754.5	781.5	793.2
42.5°	1309.9	1326.1	1340.2	1338.2	1262.8	1079.3	908.4	835.8	856.3	869.8
45°	1355.7	1373.0	1403.3	1435.9	1400.0	1216.5	1021.8	932.2	951.0	971.3
47.5°	1396.6	1416.2	1455.5	1507.3	1516.5	1354.2	1146.0	1044.5	1061.6	1082.7
50°	1400.2	1417.2	1478.1	1551.5	1599.2	1486.6	1279.4	1170.5	1186.6	1209.1
52.5°	1313.1	1339.8	1446.2	1550.2	1637.3	1597.2	1411.9	1301.6	1319.6	1346.7
55°	1019.3	1058.4	1352.6	1501.9	1623.7	1668.8	1537.9	1440.9	1464.0	1492.3
57.5°	877.9	895.1	1073.7	1413.9	1562.1	1687.4	1644.3	1581.7	1618.9	1649.9
60°	789.1	803.3	909.0	1277.1	1481.0	1658.0	1726.5	1713.0	1777.2	1814.1
62.5°	693.9	707.4	803.5	1066.3	1377.1	1609.1	1778.4	1834.1	1939.4	1979.8
65°	599.4	611.0	703.1	896.0	1245.2	1560.3	1805.3	1938.9	2089.6	2131.4
67.5°	494.1	503.7	590.8	755.9	1084.7	1493.4	1818.6	2021.3	2220.3	2256.2
70°	356.6	364.0	453.9	597.8	883.4	1378.4	1813.2	2079.7	2288.1	2316.7
72.5°	168.6	175.2	280.9	388.1	623.9	1154.5	1703.8	2033.3	2219.2	2205.0
75°	90.0	95.7	161.3	212.9	329.5	791.4	1394.3	1751.6	1863.5	1794.3
77.5°	60.9	65.4	99.9	127.8	150.5	375.7	896.2	1212.7	1166.7	1052.5
80°	48.3	53.0	81.8	86.5	72.8	135.7	370.3	561.4	403.3	322.5
82.5°	37.1	42.4	68.9	62.7	39.7	55.7	107.8	177.6	103.3	78.6
85°	22.7	28.3	54.1	40.0	22.4	25.4	36.6	49.4	31.5	26.3
87.5°	11.5	16.2	27.4	14.6	10.1	5.9	9.7	9.7	8.3	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945457  
 CATALOG NUMBER: GALN-SB1B-927-U-T3R

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
491.1	0°	491.1	491.1	491.1	491.1	491.1	491.1	491.1	491.1	491.1	491.1
488.5	2.5°	492.9	496.5	502.6	508.4	512.9	517.2	521.5	523.9	524.6	527.5
491.3	5°	498.6	505.3	517.2	528.4	535.4	539.7	542.8	544.6	545.0	545.9
498.6	7.5°	509.3	519.9	536.5	547.7	552.9	552.5	551.3	546.8	545.0	543.4
509.5	10°	524.2	538.3	558.7	566.4	563.2	554.5	543.4	530.2	524.1	518.1
524.2	12.5°	542.8	560.7	580.7	580.3	564.3	542.1	516.1	495.9	483.1	473.9
542.5	15°	565.3	585.9	601.2	589.0	553.8	514.0	475.9	449.6	438.1	428.0
560.8	17.5°	588.6	610.6	617.6	586.3	527.5	472.3	429.2	408.5	397.1	391.7
580.7	20°	611.3	633.1	627.4	570.8	487.5	425.1	386.7	375.3	373.0	374.3
600.0	22.5°	635.3	654.8	629.3	540.8	436.4	376.8	355.7	356.0	361.3	365.1
620.1	25°	659.8	673.0	624.1	497.6	381.6	341.3	336.0	341.8	352.1	359.5
642.9	27.5°	683.4	689.2	612.8	444.0	334.6	315.8	316.7	328.6	344.1	354.4
670.4	30°	710.1	703.6	590.9	383.8	302.0	294.0	301.6	315.5	331.0	340.2
705.2	32.5°	740.2	716.1	556.3	328.1	278.9	276.5	289.0	298.0	304.8	307.6
751.4	35°	777.7	733.5	512.0	289.0	258.2	263.7	275.6	271.1	268.4	267.0
813.4	37.5°	826.4	757.2	460.1	263.6	241.4	254.5	259.4	245.4	234.7	229.5
888.6	40°	885.0	791.8	410.1	243.9	230.8	246.6	238.1	221.2	207.7	200.3
973.1	42.5°	950.1	828.0	368.1	229.1	224.8	240.1	222.5	202.3	180.5	178.1
1073.9	45°	1018.4	865.3	339.5	217.8	221.9	234.5	213.4	180.8	165.3	174.9
1175.0	47.5°	1086.7	899.6	322.2	209.3	220.5	228.2	205.5	168.9	157.9	171.8
1283.4	50°	1162.8	930.2	314.4	203.2	218.9	225.7	193.6	165.9	150.2	159.4
1395.5	52.5°	1238.3	954.0	308.6	197.0	216.5	223.7	187.8	162.2	140.8	141.3
1508.4	55°	1313.7	969.5	302.3	188.9	211.3	219.4	187.3	158.3	133.8	131.2
1627.7	57.5°	1394.1	978.4	294.6	179.9	202.3	208.4	186.8	155.2	131.6	127.5
1749.8	60°	1475.9	991.3	284.5	168.9	190.2	195.2	185.5	154.1	130.3	123.3
1864.8	62.5°	1549.3	995.8	272.4	158.5	174.7	182.3	182.8	153.2	126.9	114.8
1960.3	65°	1597.4	976.4	251.3	146.6	157.9	168.9	177.6	150.2	120.8	108.7
2007.6	67.5°	1595.4	920.9	218.3	131.2	141.7	154.1	170.0	144.9	113.4	101.1
1971.9	70°	1521.2	811.2	176.5	113.4	123.8	138.3	160.3	137.2	104.6	92.8
1753.4	72.5°	1304.7	634.9	128.2	92.5	103.1	121.9	147.6	127.8	95.5	85.5
1295.8	75°	932.0	401.8	86.9	71.0	80.2	103.3	132.0	116.8	87.3	85.8
649.0	77.5°	476.1	192.0	57.5	51.9	55.9	81.5	110.9	104.4	88.5	70.8
184.6	80°	154.9	70.8	36.2	35.3	37.1	54.3	85.8	85.6	67.1	48.1
44.7	82.5°	49.4	30.5	23.6	22.7	21.8	34.1	59.9	67.8	45.2	30.5
16.0	85°	19.7	18.2	13.9	12.8	9.2	16.0	31.4	45.1	33.7	22.0
4.1	87.5°	7.2	7.2	3.8	2.7	2.0	5.4	8.5	13.5	19.3	11.4
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>
491.1
529.1
547.3
543.7
516.3
471.8
426.9
393.4
373.7
366.0
361.5
356.9
342.3
309.0
268.4
230.8
200.8
180.5
179.9
178.3
166.2
145.1
133.0
128.0
123.8
114.8
108.7
101.7
93.9
84.9
80.9
63.1
42.5
30.3
22.5
11.2
0.0

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