

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: P938789

Luminaire Tested: **GALN-SB1A-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
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-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3857 lumens
Efficiency: N/A
Efficacy: 124.8 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

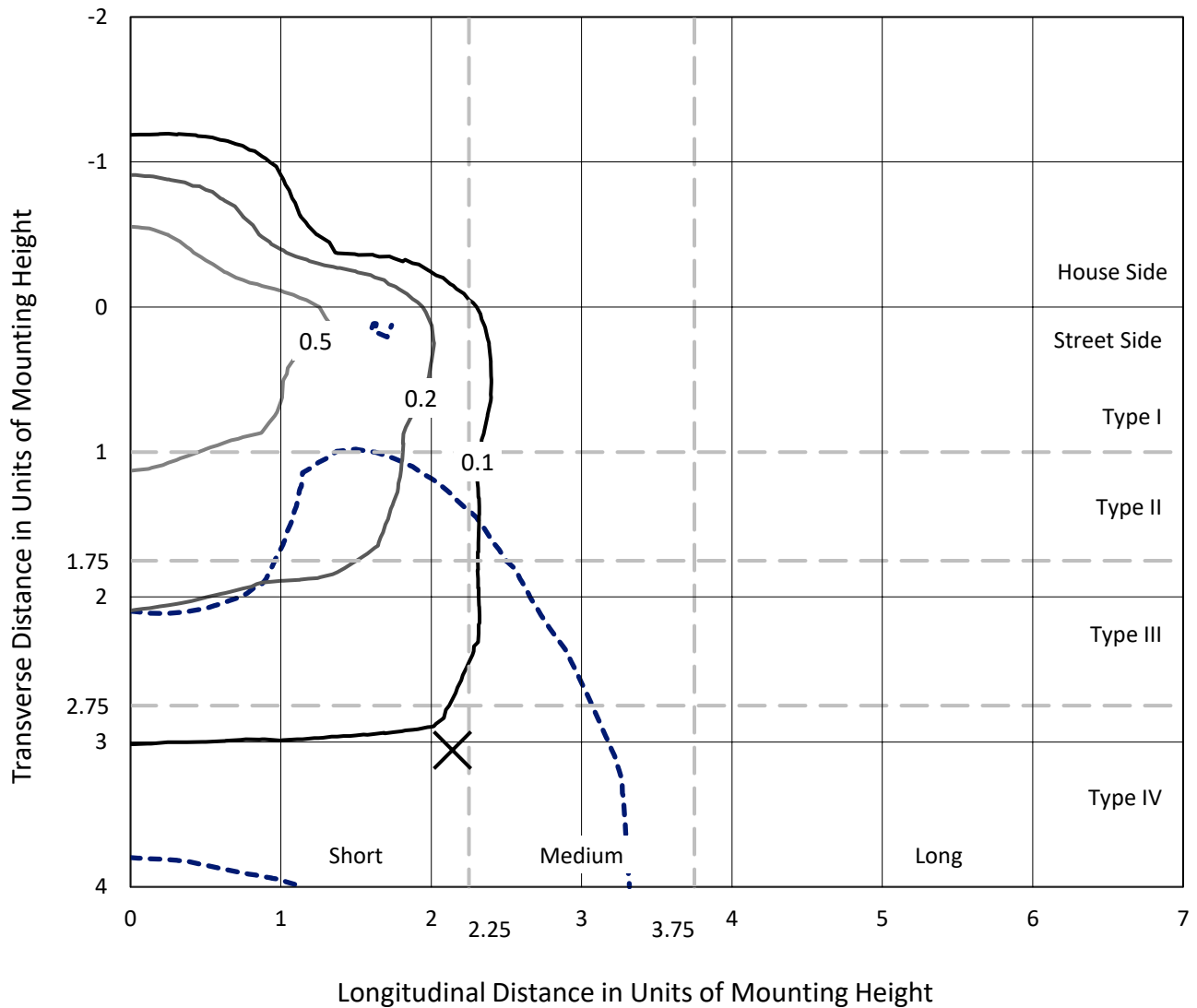
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

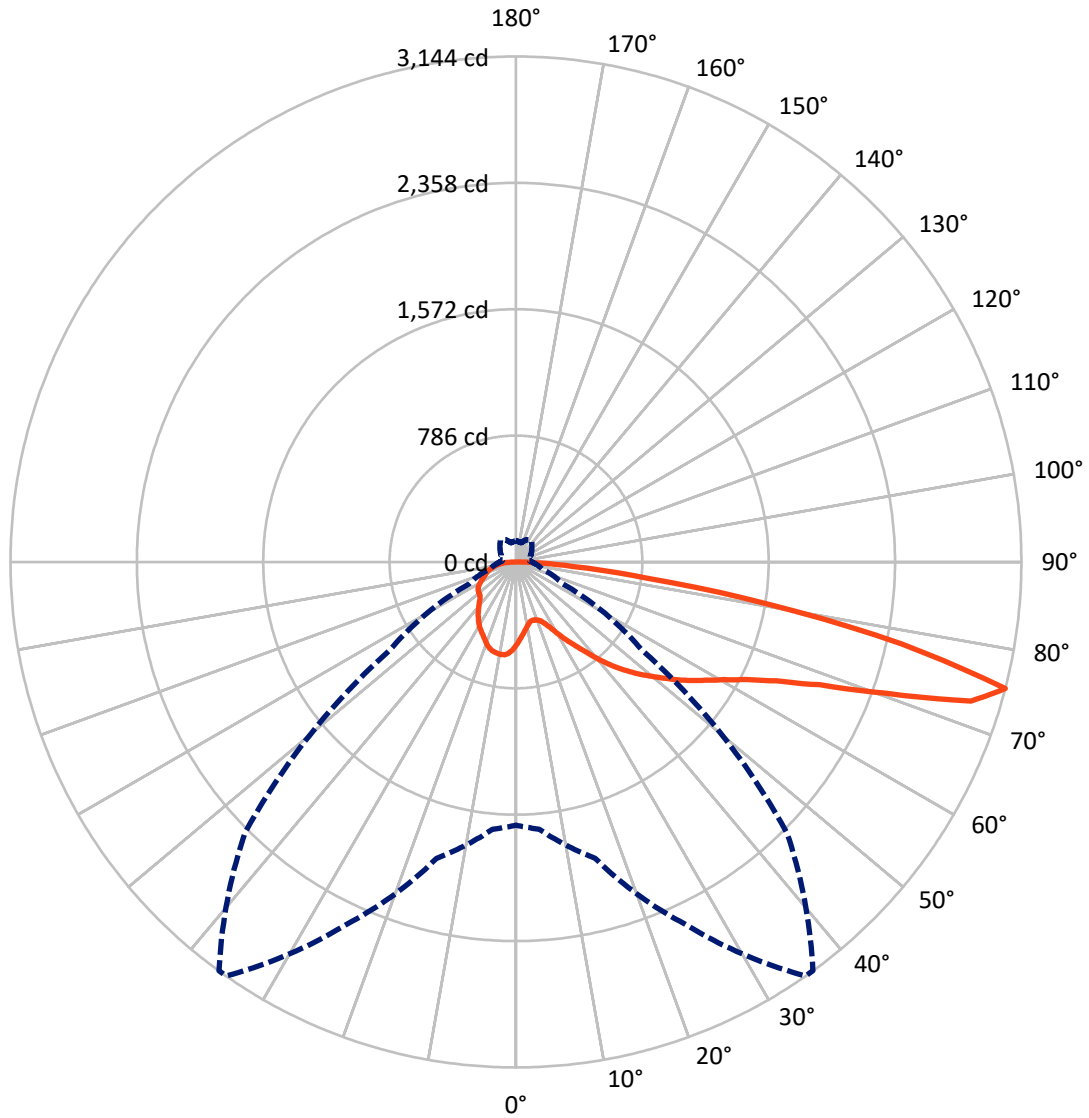
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	917.9	0.0	917.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	2939.1	0.0	2939.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	3857.0	0.0	3857.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	1.3
10°-20°	140.4	3.6
20°-30°	235.7	6.1
30°-40°	366.3	9.5
40°-50°	543.7	14.1
50°-60°	750.6	19.5
60°-70°	910.7	23.6
70°-80°	752.6	19.5
80°-90°	108.2	2.8
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°	3857.0	100.0
0°-180°	3857.0	100.0

Coefficient of Utilization



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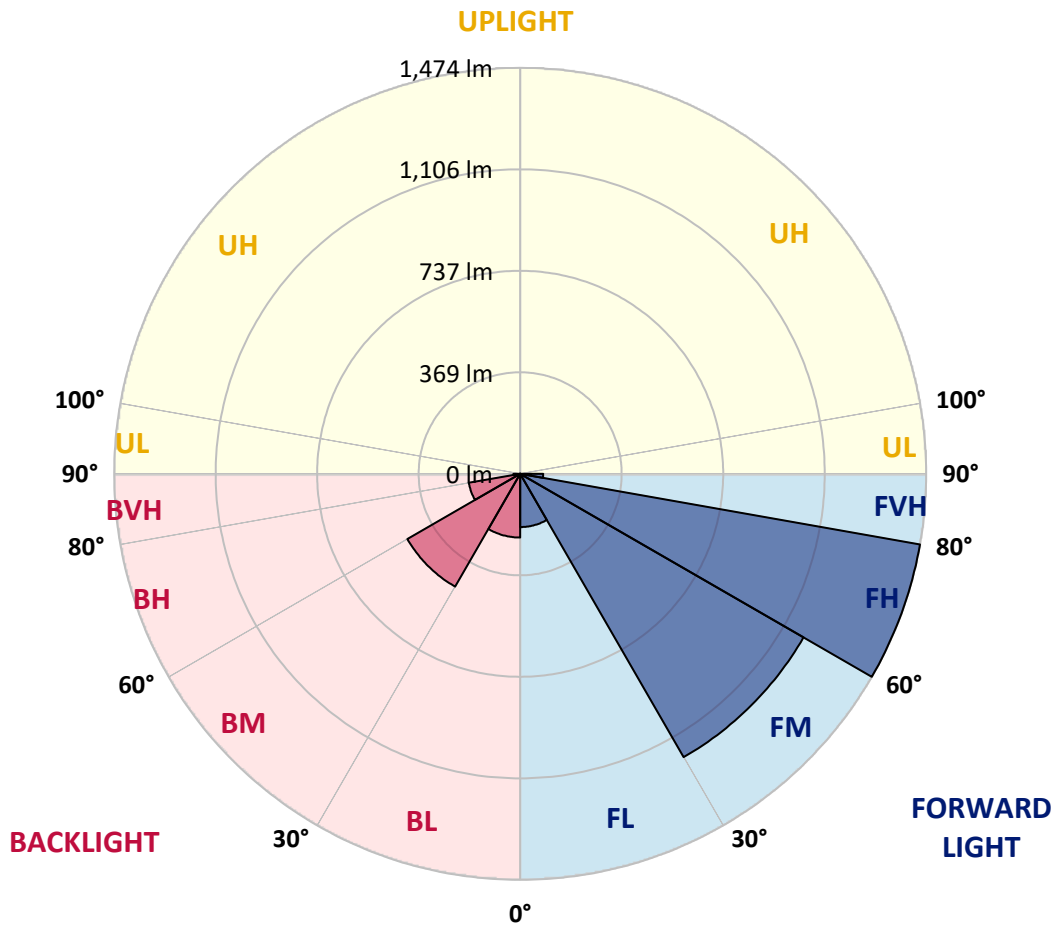
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	193.4	5.0			
FM (30°-60°)	1187.7	30.8			
FH (60°-80°)	1474.1	38.2			G1/1800
FVH (80°-90°)	83.9	2.2			G1/100
BL (0°-30°)	231.3	6.0	B1/500		
BM (30°-60°)	472.9	12.3	B1/1000		
BH (60°-80°)	189.2	4.9	B1/500		G1/500
BVH (80°-90°)	24.4	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0
2.5°	473.9	476.9	478.1	477.5	480.6	480.2	484.6	490.0	497.5	504.8
5°	437.4	440.6	443.3	445.8	451.8	453.7	460.6	471.0	484.8	498.8
7.5°	403.5	406.2	410.3	414.9	425.1	427.0	438.5	454.8	473.9	494.4
10°	375.7	378.4	382.8	388.0	400.8	403.0	417.6	439.3	464.3	490.2
12.5°	363.8	364.7	367.2	372.4	383.4	384.9	401.0	425.8	455.0	487.1
15°	363.2	364.9	365.1	367.8	377.0	377.6	392.4	417.0	449.1	486.4
17.5°	369.5	370.7	368.9	370.5	378.2	379.3	391.0	412.8	447.2	489.2
20°	386.2	387.2	381.6	379.3	384.9	385.7	397.2	415.6	449.1	494.8
22.5°	421.6	422.2	408.5	399.1	399.5	399.9	409.9	426.6	456.4	505.0
25°	476.9	476.4	454.5	436.4	426.0	423.7	430.4	444.5	468.7	518.6
27.5°	541.5	538.4	516.5	489.4	466.6	463.3	461.8	467.9	486.2	536.5
30°	614.5	611.6	588.0	552.5	521.1	515.6	501.9	498.8	512.3	560.9
32.5°	694.5	692.7	664.5	621.6	579.4	573.2	550.0	541.7	552.3	597.8
35°	761.7	760.0	736.7	692.5	641.0	633.2	609.7	600.3	605.7	645.1
37.5°	822.4	821.5	801.5	766.7	713.5	704.1	677.6	674.5	673.5	707.5
40°	878.7	876.6	855.7	837.4	798.0	789.4	766.1	763.3	755.4	784.2
42.5°	941.0	935.6	905.3	896.8	886.2	879.1	865.1	865.5	848.0	870.7
45°	991.9	988.7	957.7	952.7	964.1	961.2	973.3	976.4	942.5	961.4
47.5°	1046.5	1043.6	1017.3	1013.8	1044.8	1045.7	1088.4	1089.5	1034.6	1055.7
50°	1113.8	1109.7	1083.6	1088.0	1122.8	1125.9	1204.1	1197.0	1119.5	1151.4
52.5°	1158.3	1160.8	1155.1	1162.2	1209.8	1212.7	1318.0	1299.8	1203.5	1245.8
55°	1191.0	1196.0	1213.5	1229.8	1301.5	1304.4	1425.4	1397.6	1273.1	1333.4
57.5°	1233.1	1226.0	1258.8	1290.5	1388.7	1396.4	1529.8	1491.9	1334.9	1408.9
60°	1293.6	1288.6	1314.0	1360.9	1486.2	1498.5	1640.3	1576.7	1380.1	1468.7
62.5°	1416.2	1403.7	1407.6	1449.1	1609.3	1625.5	1765.0	1650.8	1402.6	1492.1
65°	1599.5	1578.0	1558.0	1586.7	1782.5	1798.6	1905.8	1708.9	1394.3	1446.8
67.5°	1830.3	1809.0	1784.4	1811.5	2037.7	2050.5	2079.4	1741.7	1328.6	1272.5
70°	2020.6	2012.7	2042.1	2153.7	2445.4	2445.8	2302.1	1714.6	1148.7	902.2
72.5°	1995.4	1990.6	2145.5	2490.4	2959.1	2948.1	2512.9	1509.4	773.8	407.0
75°	1637.0	1668.1	1908.1	2484.4	3143.7	3142.2	2383.9	959.6	320.1	168.7
77.5°	877.8	927.0	1238.7	1834.2	2454.1	2491.0	1676.0	335.7	137.4	108.0
80°	286.3	329.2	493.7	933.9	1594.7	1587.8	718.3	131.8	94.0	76.5
82.5°	121.6	126.6	220.6	441.0	818.4	805.7	228.7	75.7	66.1	52.3
85°	47.5	53.2	97.4	203.9	354.5	346.7	82.6	37.5	42.3	34.2
87.5°	15.6	19.0	34.8	69.9	110.3	106.3	20.2	12.9	18.3	15.6
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°
514.0	0°	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0
515.4	2.5°	518.4	521.7	525.6	531.5	536.5	540.7	545.0	547.7	548.8	551.9
516.3	5°	522.1	529.4	539.2	548.8	558.2	563.8	568.8	571.3	573.6	575.3
518.6	7.5°	528.4	537.7	553.2	565.7	573.6	578.2	581.5	580.7	581.5	581.9
521.1	10°	533.8	546.9	565.3	577.1	583.2	583.4	582.6	579.7	578.2	578.4
524.8	12.5°	540.2	554.8	574.6	584.7	586.3	581.7	578.2	573.2	571.3	570.5
530.4	15°	549.0	565.7	584.9	588.6	584.4	578.6	572.6	564.4	560.3	556.9
540.0	17.5°	559.6	578.0	592.8	590.1	581.1	571.5	561.7	549.4	540.9	537.3
553.2	20°	574.4	590.9	598.8	586.9	573.4	558.8	542.1	527.1	519.2	515.6
569.9	22.5°	592.4	608.2	604.7	581.5	562.3	539.0	518.1	507.1	503.1	500.6
591.3	25°	613.8	627.4	608.8	573.6	544.2	512.7	496.7	493.1	491.2	489.4
617.6	27.5°	641.8	649.1	612.0	561.9	515.8	484.8	478.9	479.6	478.9	475.8
654.1	30°	678.7	677.2	614.9	543.0	483.3	459.6	460.0	462.7	463.1	461.0
705.0	32.5°	727.3	712.5	616.3	518.4	452.3	437.4	437.9	440.8	442.9	439.3
771.5	35°	786.1	753.5	614.1	487.5	428.3	416.4	413.3	414.1	414.7	411.4
852.2	37.5°	854.7	799.6	603.8	453.3	408.5	395.7	389.1	383.4	380.1	377.0
943.5	40°	929.9	849.9	585.1	419.9	386.4	373.9	363.8	353.2	342.0	337.8
1040.2	42.5°	1008.8	901.6	562.3	388.0	360.9	350.7	340.1	324.6	307.8	299.2
1140.7	45°	1090.5	954.5	540.0	356.5	334.9	330.5	318.2	299.6	281.3	270.4
1241.5	47.5°	1170.6	1004.6	507.3	324.9	310.5	315.3	305.7	288.6	268.1	251.0
1341.3	50°	1247.1	1051.5	453.7	292.7	290.7	310.7	301.5	276.9	253.5	231.7
1439.3	52.5°	1323.0	1089.5	385.1	263.6	280.0	309.4	296.1	269.0	240.4	217.5
1531.5	55°	1387.4	1109.1	319.0	238.5	264.6	298.8	289.6	259.6	221.9	197.5
1594.7	57.5°	1424.1	1093.2	264.0	213.9	243.3	281.3	278.6	239.6	199.8	181.0
1607.0	60°	1408.3	1029.0	218.9	192.5	223.1	262.3	259.4	219.8	182.9	165.1
1541.1	62.5°	1320.9	906.6	183.3	173.7	204.8	242.9	240.2	204.5	169.9	152.8
1366.1	65°	1144.9	737.5	155.5	158.0	186.2	219.6	223.5	191.8	159.7	143.0
1056.9	67.5°	873.2	534.2	133.9	144.5	168.1	196.6	208.1	182.7	151.2	135.3
611.6	70°	497.7	303.4	115.5	131.4	152.0	175.4	196.2	175.4	142.0	128.9
229.1	72.5°	188.7	139.3	99.9	118.2	136.6	157.4	183.1	163.9	131.4	121.6
118.4	75°	100.7	84.9	84.0	102.8	118.8	139.9	166.6	152.6	123.4	128.4
81.9	77.5°	68.6	60.1	70.3	88.0	99.5	120.5	149.1	135.5	107.0	106.5
56.7	80°	47.5	42.5	57.1	70.9	76.9	101.3	130.1	116.3	87.2	81.3
35.0	82.5°	28.6	27.7	42.7	53.0	54.4	78.2	107.8	97.6	71.3	62.1
20.9	85°	15.6	16.5	27.3	31.1	31.7	54.6	84.4	75.5	54.8	46.1
7.5	87.5°	4.4	5.6	10.0	12.3	15.2	28.4	50.3	44.8	27.5	19.2
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>
514.0
551.7
575.7
582.6
578.8
570.1
558.0
537.5
515.2
501.0
489.4
476.4
462.1
441.0
413.7
379.1
339.7
300.3
269.6
249.2
229.8
215.0
195.4
178.5
162.6
150.1
140.3
132.8
127.2
119.9
132.6
98.2
77.8
62.6
46.5
19.2
0.0

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