

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: P945879

Luminaire Tested: **GALN-SB1C-940-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945879
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-SB1C-940-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5418 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

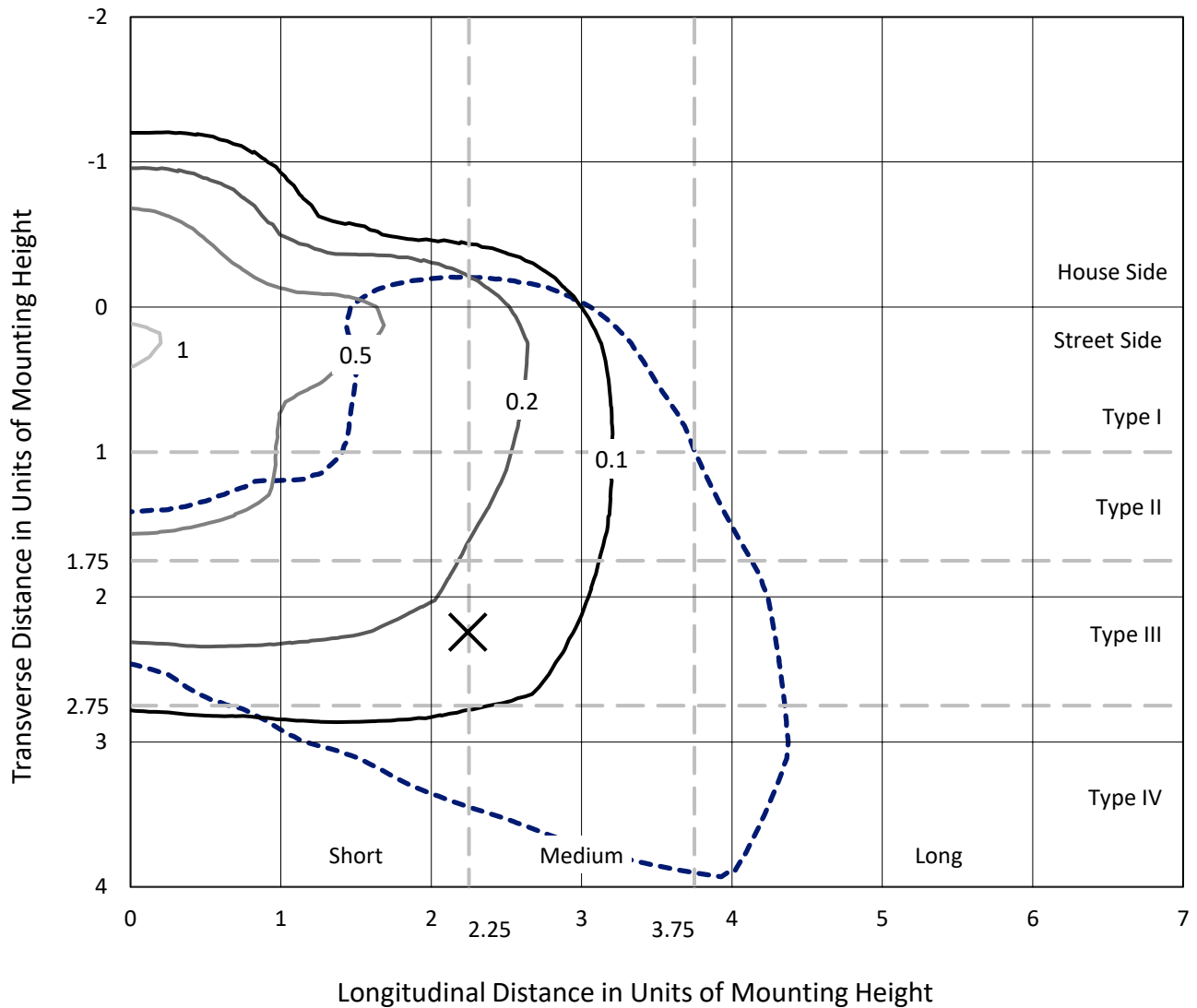
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

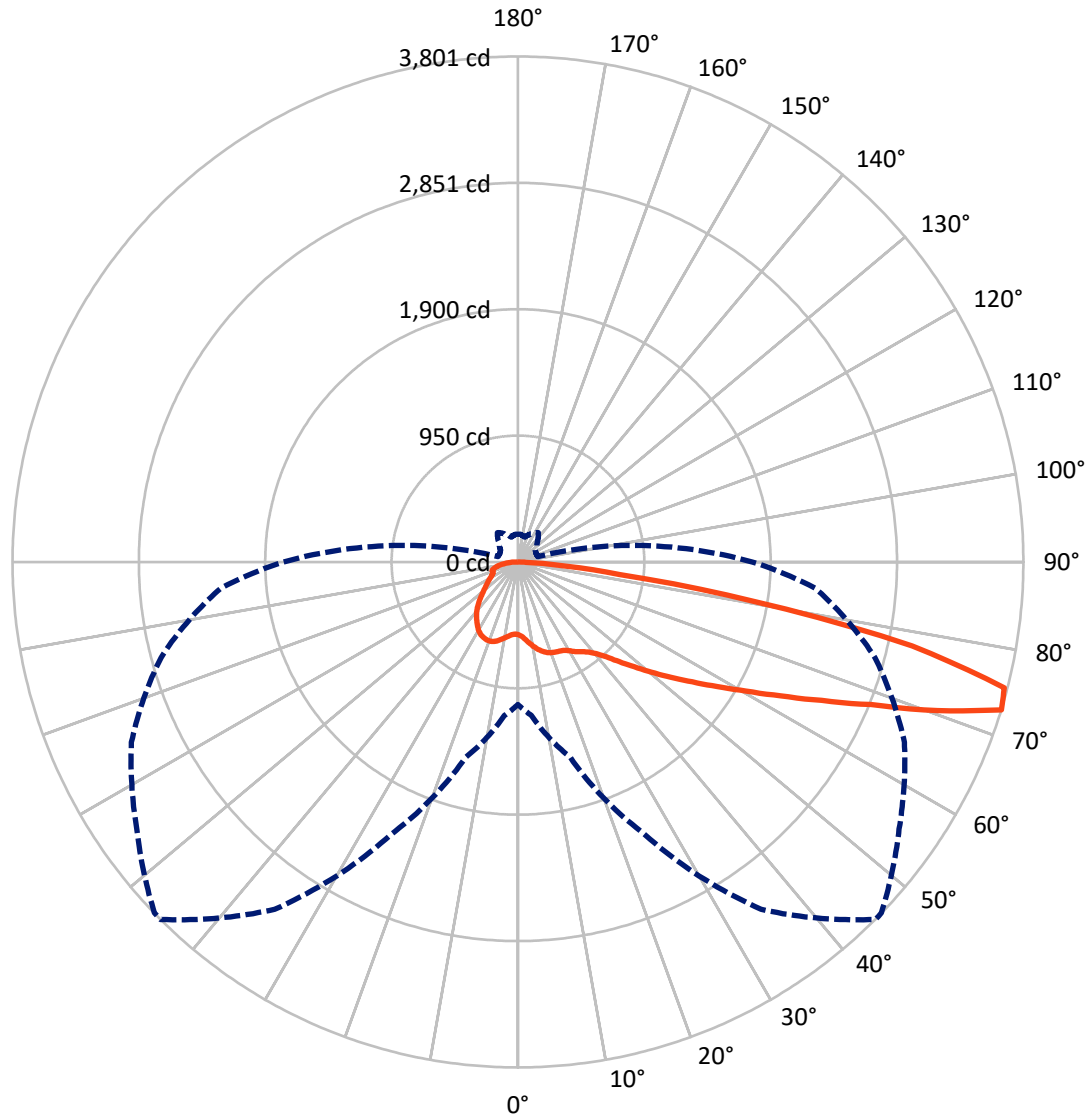
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1224.8	0.0	1224.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	4193.2	0.0	4193.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	5418.0	0.0	5418.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	1.0
10°-20°	185.5	3.4
20°-30°	322.7	6.0
30°-40°	462.5	8.5
40°-50°	651.3	12.0
50°-60°	997.6	18.4
60°-70°	1445.1	26.7
70°-80°	1154.0	21.3
80°-90°	143.7	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°	5418.0	100.0
0°-180°	5418.0	100.0

Coefficient of Utilization



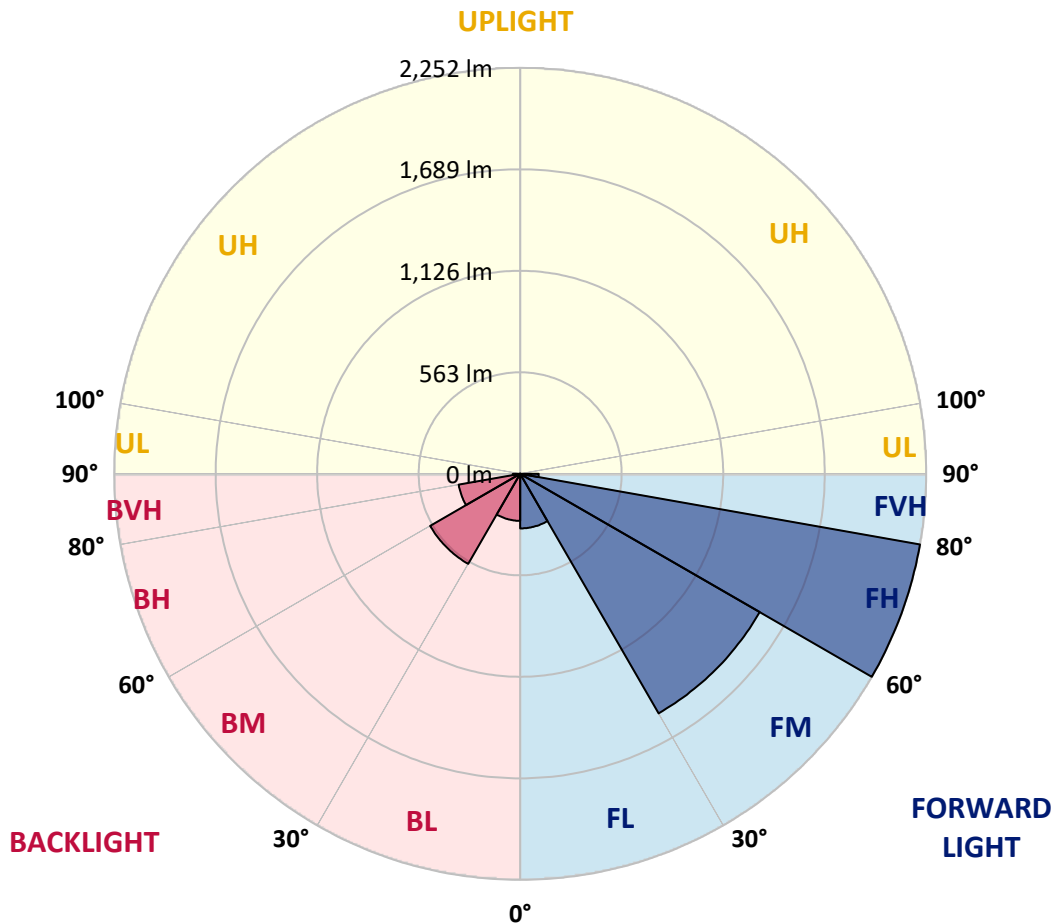
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	303.0	5.6			
FM (30°-60°)	1534.7	28.3			
FH (60°-80°)	2252.4	41.6			G2/5000
FVH (80°-90°)	103.1	1.9			G2/225
BL (0°-30°)	260.8	4.8	B1/500		
BM (30°-60°)	576.7	10.6	B1/1000		
BH (60°-80°)	346.7	6.4	B1/500		G1/500
BVH (80°-90°)	40.6	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	546.6	546.6	546.6	546.6	546.6	546.6	546.6	546.6	546.6	546.6
2.5°	568.0	571.7	568.3	565.1	563.7	560.0	559.7	557.4	556.0	552.0
5°	607.6	612.5	606.8	600.5	594.8	585.7	584.5	578.0	570.5	562.0
7.5°	652.5	656.7	650.2	640.8	630.8	615.6	615.4	603.4	591.7	577.1
10°	691.6	697.3	688.4	675.6	663.0	645.9	643.9	630.2	615.4	596.5
12.5°	726.1	730.1	721.5	705.8	691.3	674.2	671.6	656.5	639.9	618.5
15°	753.5	758.6	747.2	730.4	715.0	698.1	695.8	682.1	665.6	643.0
17.5°	771.5	775.8	764.1	745.2	730.4	716.4	714.7	703.3	688.7	665.9
20°	778.3	782.9	770.6	751.5	737.8	727.0	726.1	717.8	707.8	687.0
22.5°	785.2	789.5	773.5	753.5	741.5	734.7	734.4	729.0	725.0	707.8
25°	812.9	814.0	792.6	763.8	746.6	740.7	740.4	740.1	741.8	728.4
27.5°	836.8	836.6	818.3	791.2	764.6	752.1	751.8	754.6	760.1	748.9
30°	871.9	868.8	847.1	818.9	794.6	775.2	773.5	770.9	775.2	766.3
32.5°	946.4	936.4	901.3	851.1	819.4	804.6	802.3	786.3	788.0	782.6
35°	1053.2	1040.1	993.2	912.2	850.3	829.1	828.0	807.7	804.3	799.4
37.5°	1180.2	1163.9	1109.4	1000.7	903.3	857.7	856.0	837.7	823.7	818.6
40°	1307.8	1287.2	1242.1	1108.6	981.5	905.3	899.9	872.2	856.2	847.7
42.5°	1431.6	1414.5	1376.0	1229.6	1078.0	975.0	963.0	915.6	903.6	895.6
45°	1541.2	1525.8	1497.6	1358.9	1191.0	1069.7	1058.0	980.7	977.0	977.0
47.5°	1630.3	1626.9	1596.9	1490.7	1324.3	1177.6	1157.4	1071.2	1081.2	1096.6
50°	1729.0	1719.6	1687.7	1620.6	1481.0	1301.2	1284.7	1182.2	1219.6	1261.8
52.5°	1819.8	1824.9	1789.3	1755.9	1658.0	1439.1	1410.0	1313.2	1394.0	1463.9
55°	1913.1	1913.4	1903.4	1898.9	1843.5	1591.5	1559.5	1470.7	1599.2	1685.9
57.5°	2000.8	2001.3	2016.2	2056.4	2058.7	1767.3	1731.0	1664.3	1827.2	1915.7
60°	2079.0	2083.0	2123.5	2217.7	2247.9	1968.8	1934.5	1892.9	2063.0	2152.0
62.5°	2105.2	2119.8	2210.0	2343.8	2434.9	2216.0	2182.3	2157.5	2310.7	2393.5
65°	2060.7	2094.1	2268.5	2448.0	2627.2	2509.7	2476.3	2449.2	2568.2	2646.1
67.5°	1951.4	1994.5	2265.1	2557.3	2860.7	2863.0	2831.9	2768.2	2844.2	2874.1
70°	1663.4	1727.9	2065.6	2598.1	3128.7	3346.2	3316.2	3152.4	3119.6	2974.6
72.5°	1071.7	1158.5	1521.0	2262.2	3188.4	3800.9	3799.2	3499.2	3206.6	2779.4
75°	391.0	444.1	706.7	1419.9	2676.3	3777.8	3788.9	3439.8	2927.2	2146.9
77.5°	142.4	155.8	230.6	545.7	1646.0	3031.1	3054.2	2750.0	2083.5	1077.4
80°	74.8	82.2	118.2	211.8	705.3	1800.1	1836.4	1634.3	979.3	324.5
82.5°	41.4	44.8	66.2	115.0	317.7	769.8	791.5	645.6	344.5	137.6
85°	22.3	23.7	31.1	62.8	155.3	266.9	272.9	192.9	137.3	80.8
87.5°	6.6	8.0	10.3	20.0	60.8	59.9	61.4	38.2	54.2	40.8
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°
546.6	0°	546.6	546.6	546.6	546.6	546.6	546.6	546.6	546.6	546.6	546.6
550.9	2.5°	549.1	548.3	545.1	543.7	542.0	541.7	543.1	543.4	543.7	544.0
557.1	5°	554.3	551.4	548.6	546.9	547.4	547.7	550.6	552.6	554.0	555.1
568.8	7.5°	564.3	562.0	557.1	556.8	557.7	560.3	564.0	568.5	571.1	573.1
584.0	10°	579.1	574.8	569.1	570.0	571.7	575.4	583.1	586.8	591.1	594.8
602.5	12.5°	594.2	590.5	584.0	584.5	587.4	593.9	601.4	605.9	608.8	611.6
622.5	15°	613.9	607.4	600.2	600.2	605.4	612.5	615.9	619.6	621.3	624.5
643.9	17.5°	634.2	625.6	616.2	615.6	621.9	625.3	627.3	627.9	628.5	631.9
664.7	20°	654.5	645.0	631.6	630.5	631.9	631.3	631.1	630.5	631.3	635.6
686.1	22.5°	674.4	663.6	645.0	639.9	635.9	630.5	630.2	629.9	630.5	634.8
709.3	25°	697.8	684.7	659.9	644.5	631.1	623.6	624.5	624.8	625.3	628.8
733.2	27.5°	723.2	708.7	673.6	643.0	618.8	613.6	612.2	613.1	615.1	620.5
757.2	30°	748.6	731.5	686.1	637.3	603.4	596.2	591.7	593.7	599.9	605.4
778.0	32.5°	771.8	754.6	696.1	624.8	583.7	572.5	566.5	569.1	575.4	577.4
801.2	35°	798.9	779.5	700.4	604.8	562.3	545.1	537.2	533.4	536.6	534.6
828.3	37.5°	829.1	808.9	699.8	578.5	537.2	517.5	506.3	492.3	485.8	478.9
868.2	40°	873.9	844.8	693.0	546.9	506.0	488.1	468.1	444.4	429.6	416.1
932.7	42.5°	935.0	894.8	680.4	512.0	470.9	454.1	427.0	399.3	375.9	353.6
1030.6	45°	1026.1	960.1	664.7	474.9	433.0	416.4	387.0	355.9	329.4	300.8
1169.6	47.5°	1157.4	1048.0	649.9	432.7	393.0	377.9	351.3	322.5	291.1	263.4
1370.6	50°	1337.7	1174.2	636.2	391.6	353.6	342.2	321.1	291.7	260.0	237.8
1606.0	52.5°	1567.2	1345.7	630.5	351.9	316.8	312.5	295.7	268.3	238.3	219.5
1880.6	55°	1830.7	1550.9	630.5	314.0	284.6	286.0	274.3	248.9	222.9	206.1
2163.7	57.5°	2099.5	1758.7	619.1	278.9	257.2	263.2	255.7	233.5	210.1	192.7
2461.4	60°	2347.3	1932.8	572.8	246.9	232.9	242.3	237.5	218.3	189.8	175.2
2710.3	62.5°	2537.6	2031.0	483.8	221.5	212.9	223.8	221.2	198.4	186.1	180.1
2914.7	65°	2633.0	2015.0	369.9	198.9	196.1	212.9	207.5	206.6	196.9	190.1
2981.2	67.5°	2574.4	1877.5	268.3	182.4	186.4	202.9	223.8	227.2	209.2	195.8
2793.9	70°	2317.9	1628.6	199.8	166.7	174.1	203.2	255.2	237.8	205.2	189.5
2240.8	72.5°	1763.3	1214.4	155.0	150.1	158.1	204.6	269.1	232.9	193.8	209.5
1396.0	75°	1008.4	666.7	124.4	129.9	138.1	191.2	262.0	220.3	184.9	192.4
553.1	77.5°	384.5	256.3	102.7	109.9	111.0	167.0	250.6	219.5	176.1	171.8
165.8	80°	133.3	100.2	85.1	87.3	85.9	148.4	240.3	190.9	144.1	129.0
68.5	82.5°	54.5	49.9	67.4	64.5	61.1	115.3	194.1	156.1	117.9	104.2
33.1	85°	23.7	31.7	44.5	39.1	35.4	79.9	155.6	132.1	99.6	85.9
10.8	87.5°	4.9	12.0	18.8	17.7	18.3	53.4	110.5	93.9	70.5	52.8
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°
546.6
545.1
555.7
573.7
593.9
612.8
625.6
633.1
637.3
637.6
633.3
625.9
611.4
584.5
540.9
483.2
417.0
351.6
297.4
260.3
236.3
218.1
204.4
189.8
173.0
178.1
187.8
193.5
186.9
207.8
192.4
156.7
124.7
103.0
85.6
41.4
0.0

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