

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: P945148

Luminaire Tested: **GALN-SB1A-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3307 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

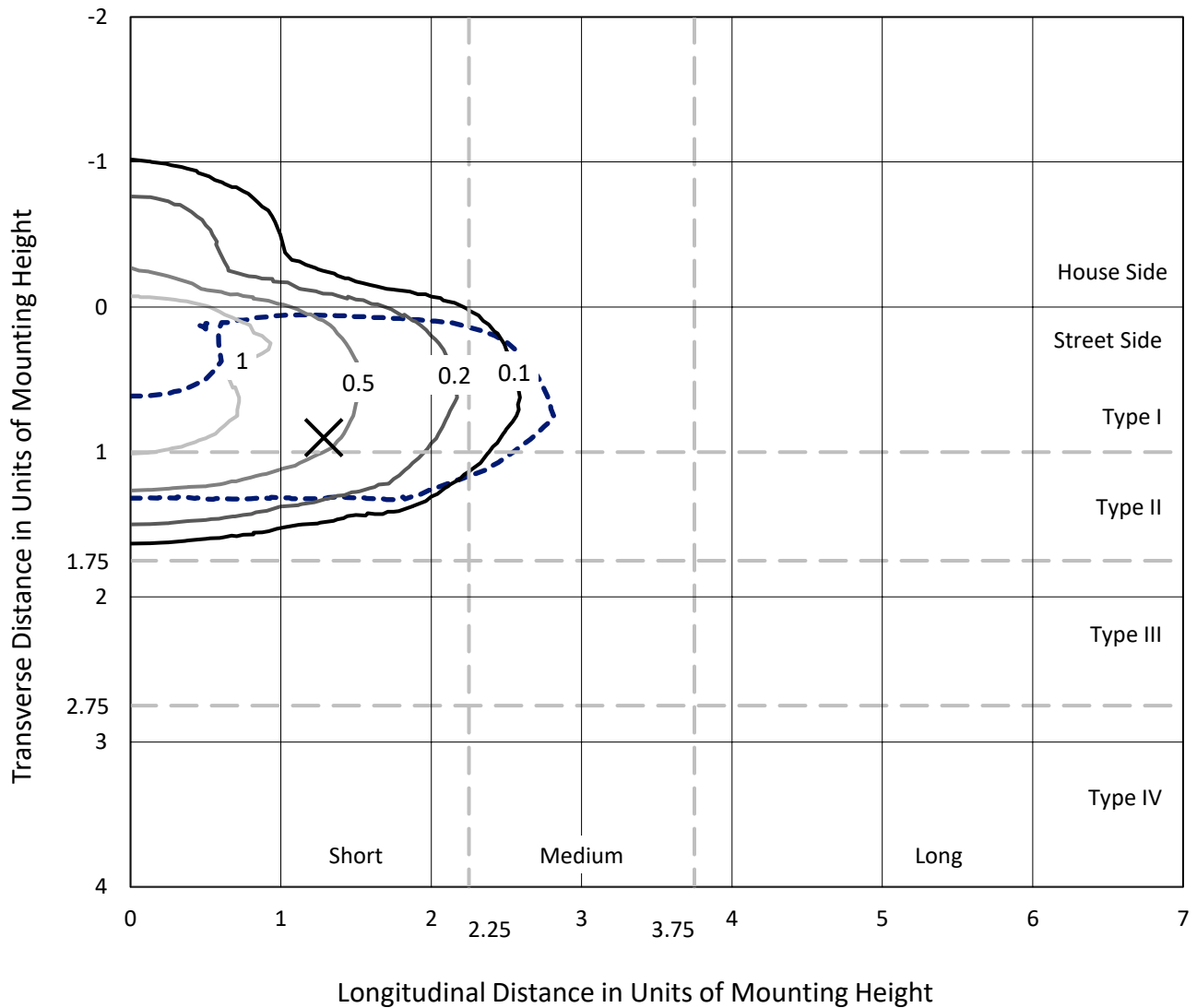
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

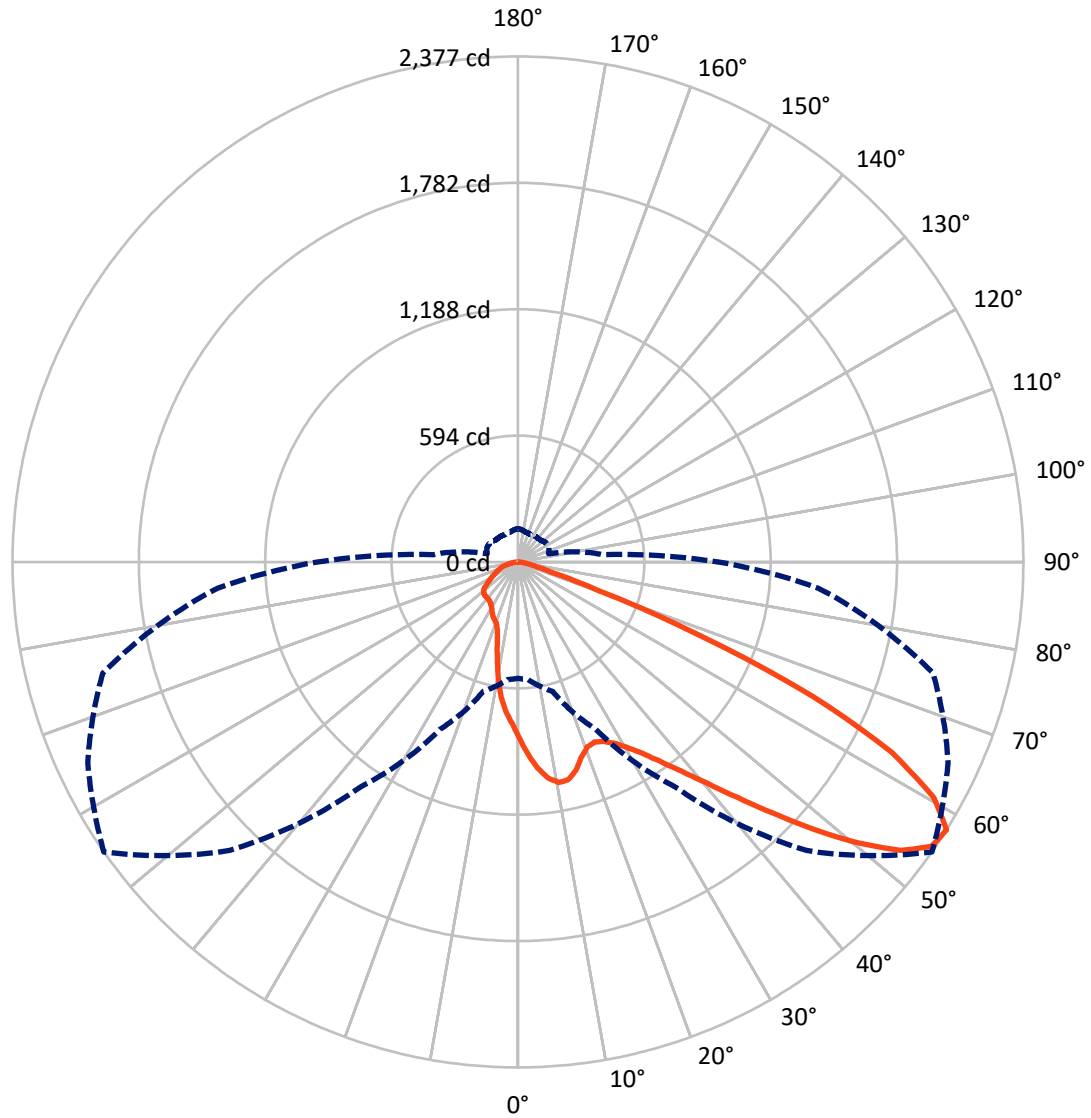
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	598.4	0.0	598.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	2708.6	0.0	2708.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	3307.0	0.0	3307.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	2.3
10°-20°	194.1	5.9
20°-30°	309.7	9.4
30°-40°	490.3	14.8
40°-50°	750.5	22.7
50°-60°	803.8	24.3
60°-70°	505.7	15.3
70°-80°	149.5	4.5
80°-90°	26.4	0.8
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°	3307.0	100.0
0°-180°	3307.0	100.0

Coefficient of Utilization

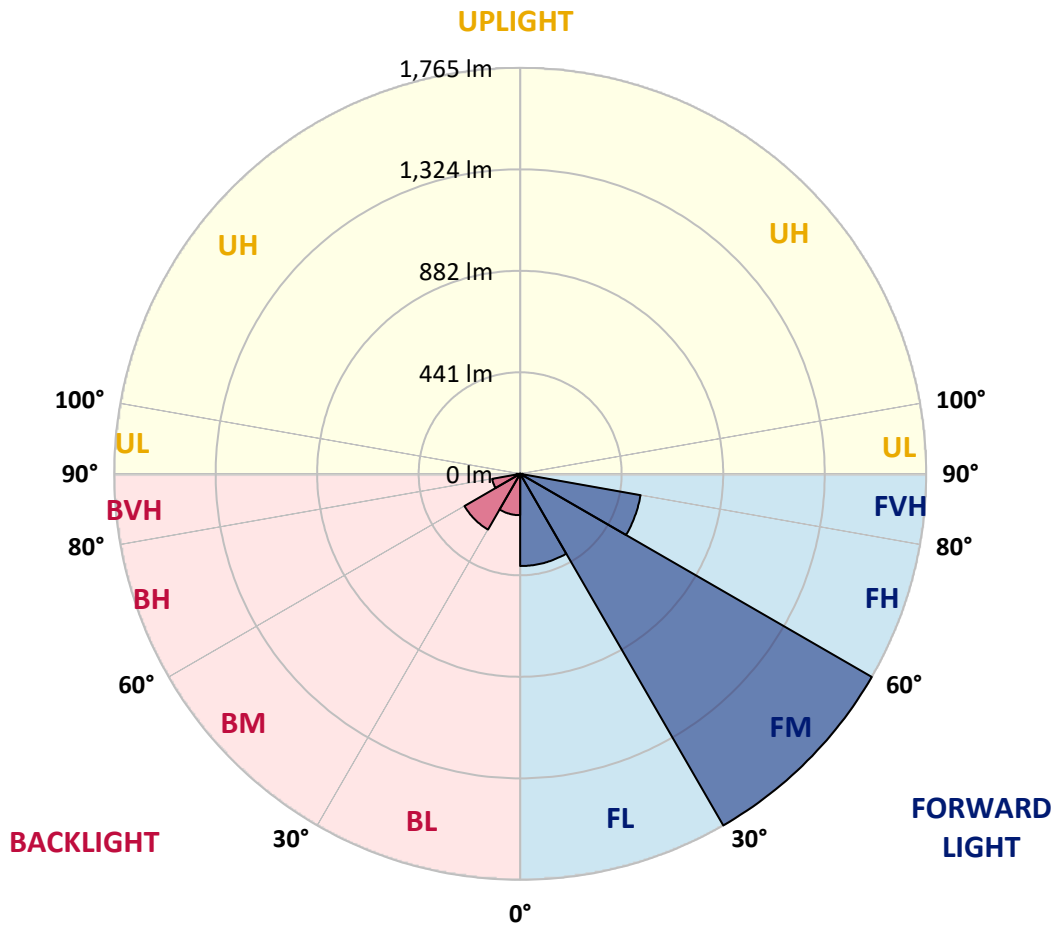


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	400.8	12.1			
FM (30°-60°)	1765.0	53.4			
FH (60°-80°)	531.7	16.1			G0/660
FVH (80°-90°)	11.2	0.3			G1/100
BL (0°-30°)	179.9	5.4	B1/500		
BM (30°-60°)	279.7	8.5	B1/1000		
BH (60°-80°)	123.6	3.7	B1/500		G1/500
BVH (80°-90°)	15.3	0.5			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	828.6	828.6	828.6	828.6	828.6	828.6	828.6	828.6	828.6	828.6
2.5°	950.7	950.0	953.8	940.9	932.2	920.4	904.9	885.0	863.7	841.1
5°	1036.3	1030.4	1034.3	1024.7	1015.1	997.4	974.3	942.0	902.5	857.5
7.5°	1022.8	1018.7	1028.8	1037.4	1044.5	1042.3	1025.4	991.5	940.6	875.3
10°	913.9	909.3	923.5	953.1	996.5	1034.3	1054.8	1033.8	979.6	894.8
12.5°	817.9	815.6	825.0	849.0	897.2	969.7	1051.0	1070.7	1020.1	917.9
15°	776.8	774.1	780.1	792.2	823.0	890.5	1016.9	1096.0	1059.9	944.5
17.5°	767.8	764.7	767.3	773.6	793.4	844.9	965.2	1108.5	1101.5	974.3
20°	784.5	782.0	782.3	782.0	795.8	836.7	929.3	1103.7	1137.7	1001.6
22.5°	825.0	820.8	820.9	811.9	819.4	851.0	919.9	1090.9	1170.0	1025.6
25°	891.0	883.3	884.9	861.8	859.7	883.2	934.6	1081.0	1202.2	1044.7
27.5°	981.3	972.6	968.0	933.6	917.2	928.8	964.5	1084.4	1232.6	1061.3
30°	1094.1	1083.5	1074.1	1025.4	995.7	991.4	1011.0	1106.9	1268.5	1078.7
32.5°	1232.4	1220.1	1203.0	1138.4	1096.5	1074.1	1071.2	1147.1	1310.6	1101.0
35°	1397.1	1381.0	1356.7	1273.1	1220.1	1174.3	1150.5	1205.1	1368.2	1134.5
37.5°	1566.6	1548.5	1526.3	1426.8	1361.7	1294.1	1247.3	1283.7	1444.9	1179.9
40°	1723.1	1702.7	1682.0	1593.5	1523.6	1442.2	1365.8	1383.2	1538.8	1234.3
42.5°	1815.4	1800.3	1792.5	1744.6	1690.6	1608.0	1513.1	1501.2	1644.3	1296.9
45°	1811.3	1805.1	1829.4	1849.2	1836.4	1790.6	1685.8	1631.6	1750.1	1351.1
47.5°	1714.5	1718.6	1772.8	1884.3	1933.3	1957.3	1882.4	1759.7	1842.1	1391.6
50°	1451.3	1454.7	1580.2	1820.5	1958.3	2093.2	2077.5	1884.6	1913.3	1416.4
52.5°	1242.9	1245.1	1298.9	1631.4	1875.9	2161.6	2253.2	2002.4	1965.5	1423.2
55°	936.2	943.9	1004.2	1280.0	1661.5	2107.4	2360.2	2123.8	1998.5	1423.9
57.5°	546.9	555.3	629.8	868.8	1291.4	1918.5	2376.5	2231.5	2020.9	1418.4
60°	267.9	271.5	304.0	456.6	796.3	1554.5	2245.9	2283.6	2033.4	1415.5
62.5°	180.5	180.0	181.4	225.3	392.3	998.7	1973.7	2192.3	2026.7	1404.4
65°	155.2	153.3	148.2	158.1	203.3	456.8	1524.9	1919.8	1975.9	1376.5
67.5°	134.2	134.4	134.5	131.5	145.1	210.8	931.9	1512.3	1793.7	1244.6
70°	111.1	112.7	113.3	113.3	118.3	138.3	397.8	1036.5	1414.8	975.8
72.5°	101.2	98.0	98.3	96.6	96.6	105.3	160.2	587.6	891.4	548.9
75°	82.6	84.6	85.0	83.8	79.8	80.3	95.1	246.5	381.4	227.7
77.5°	71.3	71.3	72.0	71.1	68.0	60.2	63.4	95.6	129.8	93.3
80°	57.3	57.1	60.0	61.7	56.9	44.4	40.5	52.8	57.6	41.0
82.5°	27.9	29.6	41.2	47.0	43.3	32.1	24.8	32.8	30.8	18.1
85°	16.2	15.4	18.5	26.2	24.8	17.8	12.0	17.1	16.1	9.2
87.5°	5.1	4.8	3.8	8.9	7.2	5.0	3.2	5.0	4.4	2.1
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
828.6	0°	828.6	828.6	828.6	828.6	828.6	828.6	828.6	828.6	828.6	828.6
831.4	2.5°	819.2	799.1	779.0	760.8	749.6	742.5	735.3	727.2	724.2	719.6
833.6	5°	811.0	772.0	737.3	707.4	680.2	658.9	637.3	619.9	612.0	617.3
840.6	7.5°	806.2	749.8	696.3	641.4	588.6	546.4	509.6	483.8	472.2	475.1
847.4	10°	802.0	724.7	643.1	556.5	480.6	428.2	390.6	371.0	363.6	365.2
856.7	12.5°	798.0	696.5	579.0	465.0	384.3	349.8	339.0	339.2	340.5	341.6
871.4	15°	797.3	662.5	507.4	385.0	332.3	330.1	341.7	349.1	353.0	354.2
883.7	17.5°	796.3	621.8	434.4	330.5	319.7	334.7	345.5	350.3	353.4	353.5
895.6	20°	792.2	570.1	367.0	304.5	317.0	329.9	336.6	340.4	342.9	343.8
904.7	22.5°	779.6	512.7	314.6	292.8	306.0	316.4	324.3	328.6	330.1	331.1
906.4	25°	756.8	448.4	278.3	281.7	290.8	304.0	310.3	311.1	310.6	312.2
902.1	27.5°	727.1	379.5	255.8	266.7	278.3	289.6	293.0	292.5	291.5	293.2
894.8	30°	691.2	317.6	241.4	249.8	265.7	275.9	279.0	277.8	275.8	277.6
891.0	32.5°	653.2	267.0	229.6	238.0	255.2	265.3	268.4	267.2	265.7	267.2
895.3	35°	617.8	231.6	218.7	230.1	247.0	256.9	260.9	261.1	261.1	262.9
906.6	37.5°	585.4	211.0	209.6	225.1	241.4	250.3	255.9	256.3	248.9	249.4
925.7	40°	555.3	202.2	205.5	221.9	235.9	244.5	244.8	225.7	212.2	211.8
947.6	42.5°	530.6	200.5	206.7	221.6	232.0	232.3	208.2	193.4	189.6	189.8
967.8	45°	507.6	200.0	209.4	221.6	226.2	200.7	184.5	180.5	180.9	182.2
976.8	47.5°	481.8	198.0	209.9	218.5	209.4	178.5	173.7	172.0	171.3	171.6
974.8	50°	453.5	190.6	203.4	212.3	180.7	168.9	162.9	162.4	163.3	163.8
963.3	52.5°	423.8	178.6	192.3	201.2	167.5	160.5	153.9	155.1	158.8	160.0
951.4	55°	404.3	164.6	177.6	179.0	158.3	152.7	147.0	149.8	156.8	159.0
944.2	57.5°	399.2	149.8	160.9	159.3	146.5	145.8	142.4	144.8	153.7	156.9
943.9	60°	397.6	136.4	144.5	143.3	135.1	138.3	137.4	138.6	141.7	142.7
940.4	62.5°	385.7	125.8	129.8	128.0	124.8	130.4	132.5	129.9	132.3	133.5
917.0	65°	355.2	117.3	115.4	114.2	115.6	120.7	124.8	119.7	121.9	125.3
826.7	67.5°	305.0	105.7	100.5	101.9	106.2	108.9	114.2	108.4	110.3	116.1
665.9	70°	246.7	90.9	86.3	90.3	94.4	100.0	100.9	96.9	101.4	107.9
406.4	72.5°	174.5	76.1	72.8	80.9	82.2	89.6	87.7	85.8	92.0	94.2
200.9	75°	121.0	61.4	59.5	65.6	70.6	76.9	75.6	77.8	90.8	91.8
100.4	77.5°	76.6	47.7	46.5	50.4	57.3	64.3	66.5	91.8	155.1	161.2
52.1	80°	44.4	35.6	34.2	37.3	43.3	49.7	64.1	112.7	102.2	101.0
23.4	82.5°	24.8	24.4	22.7	23.6	28.9	35.9	90.6	79.3	64.5	66.5
9.4	85°	11.6	14.4	12.3	11.8	16.2	42.1	60.5	45.3	30.1	29.4
2.1	87.5°	3.1	2.7	2.7	3.1	6.8	36.2	24.1	19.3	11.5	11.1
0.0	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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