

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: P945084

Luminaire Tested: **GALN-SB1A-927-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-927-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2329 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

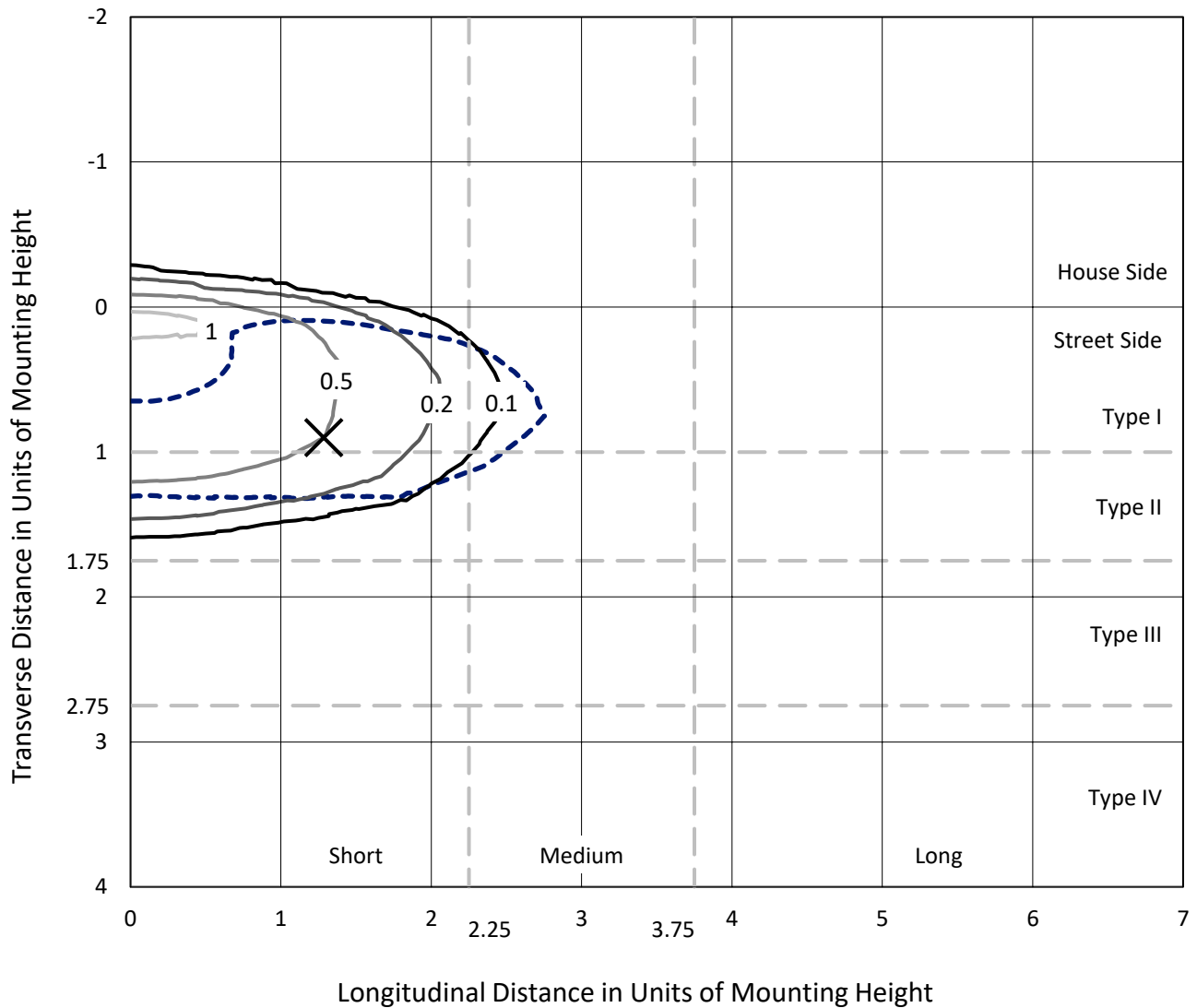
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

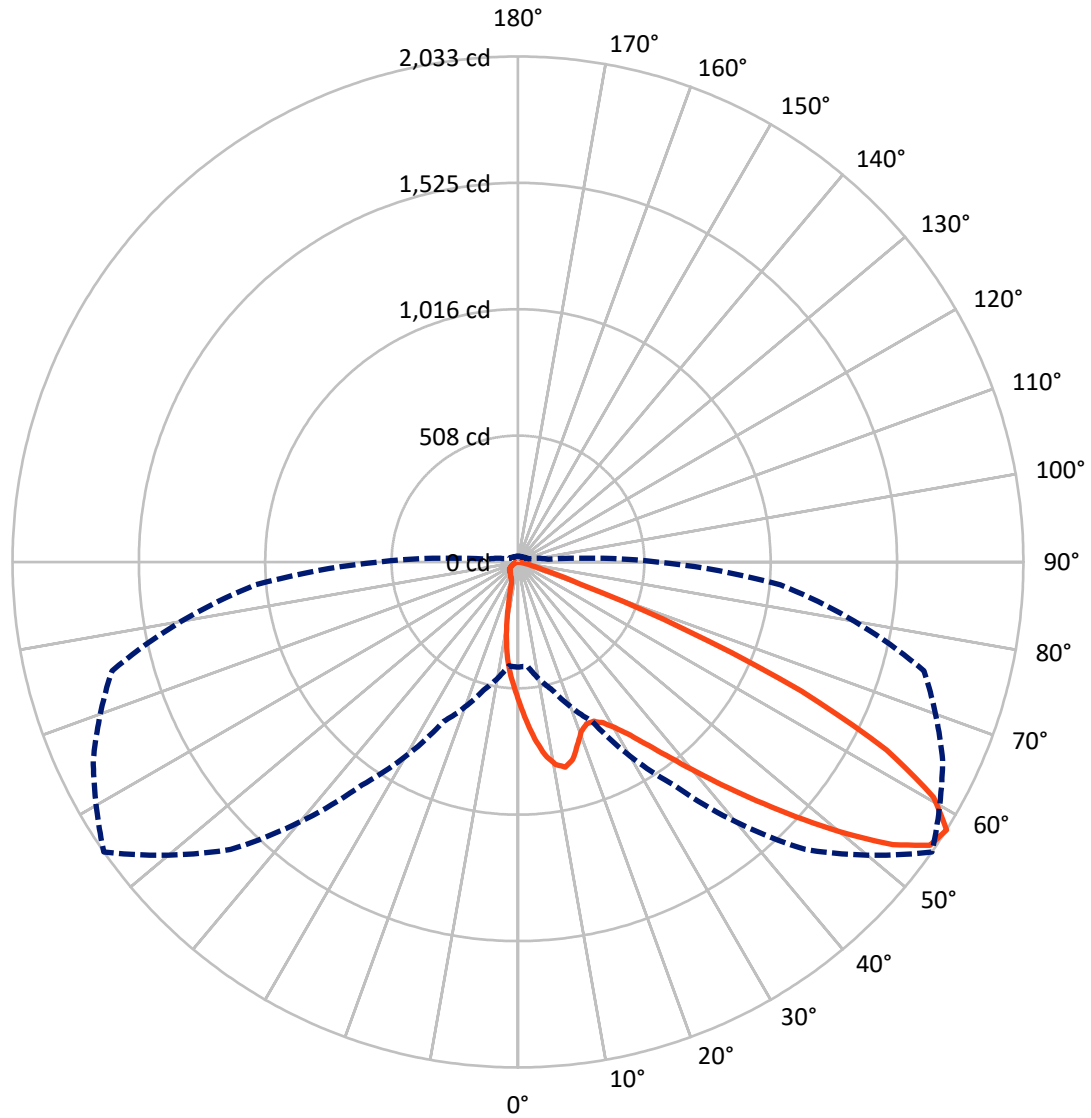
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	181.9	0.0	181.9
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	2147.1	0.0	2147.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	2329.0	0.0	2329.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	2.2
10°-20°	126.1	5.4
20°-30°	201.8	8.7
30°-40°	341.6	14.7
40°-50°	560.8	24.1
50°-60°	616.4	26.5
60°-70°	353.6	15.2
70°-80°	72.2	3.1
80°-90°	4.3	0.2
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°	2329.0	100.0
0°-180°	2329.0	100.0

Coefficient of Utilization



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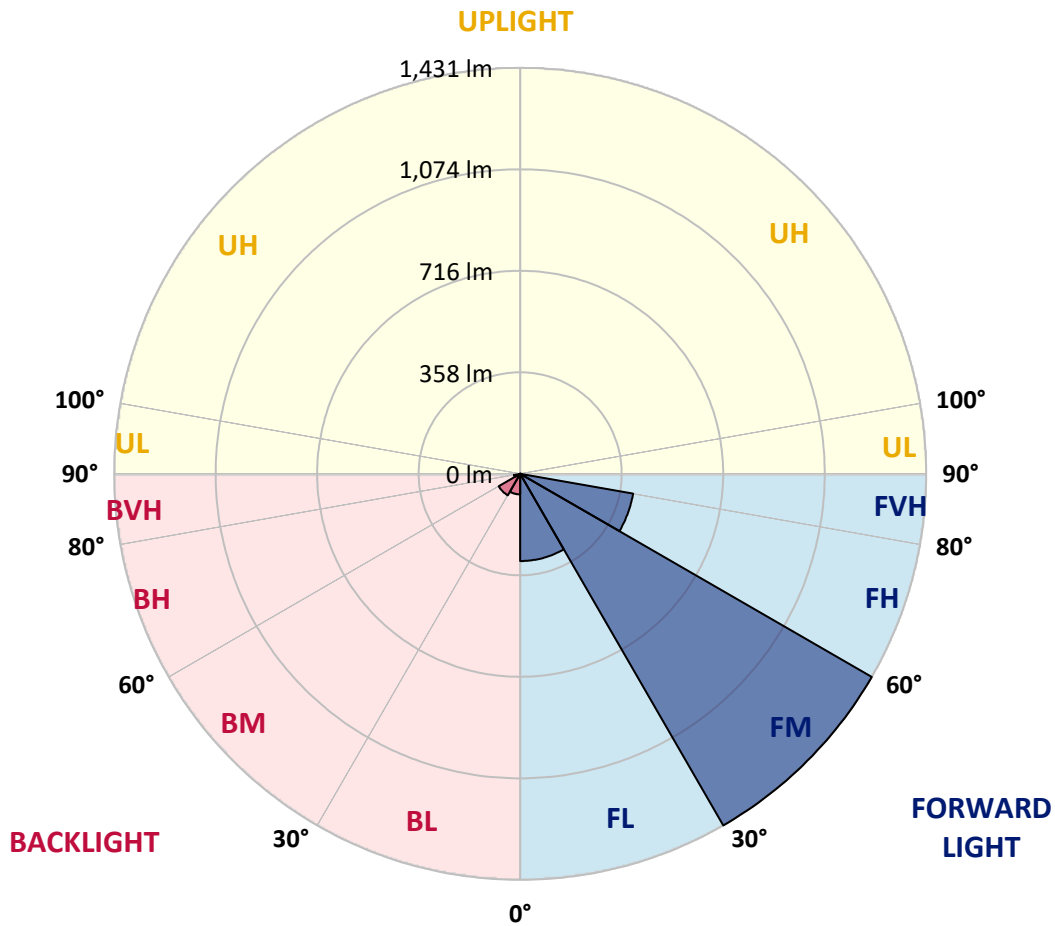
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	307.6	13.2			
FM (30°-60°)	1431.4	61.5			
FH (60°-80°)	404.2	17.4			G0/660
FVH (80°-90°)	4.0	0.2			G0/10
BL (0°-30°)	72.6	3.1	B0/110		
BM (30°-60°)	87.4	3.8	B0/220		
BH (60°-80°)	21.6	0.9	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	561.2	561.2	561.2	561.2	561.2	561.2	561.2	561.2	561.2	561.2
2.5°	696.4	687.6	686.3	684.6	667.9	655.4	637.3	617.5	595.3	572.6
5°	804.5	797.6	796.3	788.3	769.3	748.1	715.9	675.3	633.8	584.9
7.5°	825.5	824.2	830.1	829.8	827.2	810.4	783.3	734.9	672.5	600.2
10°	732.0	735.3	752.8	768.2	809.7	833.8	827.9	788.0	712.5	617.5
12.5°	646.8	642.9	655.4	672.8	721.1	792.9	846.4	832.4	758.1	637.2
15°	593.4	591.8	598.9	606.9	643.7	716.0	824.9	868.4	802.1	660.5
17.5°	576.3	575.0	577.2	579.2	603.0	659.0	773.6	890.5	844.1	687.0
20°	590.2	588.5	588.2	586.7	596.6	634.8	727.2	892.1	881.9	711.2
22.5°	630.9	628.9	621.8	615.5	616.4	638.1	706.6	876.3	910.3	733.7
25°	704.6	701.3	686.6	665.3	651.9	661.0	709.7	855.5	937.5	751.4
27.5°	796.8	792.4	773.6	742.0	711.2	700.0	732.6	841.1	960.0	764.9
30°	887.1	881.5	863.0	838.4	793.3	758.0	773.8	847.4	986.9	778.9
32.5°	984.6	979.3	954.7	924.3	886.9	839.4	830.2	878.3	1019.8	798.6
35°	1108.0	1099.6	1064.7	1023.2	983.6	935.5	906.6	931.6	1063.6	828.6
37.5°	1248.4	1237.2	1199.6	1142.3	1090.6	1036.7	999.7	1004.8	1127.8	868.8
40°	1380.8	1370.6	1335.9	1281.9	1217.0	1151.6	1112.1	1100.6	1216.4	917.8
42.5°	1460.2	1451.0	1436.4	1413.6	1358.8	1292.2	1242.4	1217.5	1321.2	976.4
45°	1464.7	1456.6	1476.3	1502.9	1492.1	1447.7	1387.0	1341.5	1426.5	1031.4
47.5°	1393.5	1388.0	1447.7	1540.5	1586.8	1605.4	1549.4	1455.1	1513.4	1070.9
50°	1199.3	1197.3	1320.2	1490.5	1622.8	1743.6	1720.7	1560.8	1580.7	1091.3
52.5°	1039.9	1032.6	1104.2	1330.6	1570.4	1816.2	1888.2	1664.5	1627.8	1095.2
55°	788.7	782.2	872.1	1062.9	1401.4	1790.4	2010.7	1771.4	1661.6	1085.3
57.5°	423.1	419.1	532.7	707.4	1095.5	1635.3	2032.8	1884.6	1690.0	1059.0
60°	164.7	164.0	206.5	343.2	665.8	1330.4	1921.2	1952.5	1707.8	1026.7
62.5°	99.7	101.8	108.7	154.1	294.1	826.5	1664.0	1875.3	1719.7	997.1
65°	82.4	82.6	83.4	105.8	140.9	345.8	1252.7	1621.1	1690.3	944.4
67.5°	70.7	71.9	75.3	84.0	99.4	151.7	721.2	1255.7	1511.2	821.7
70°	55.7	57.4	61.6	69.1	76.7	94.9	266.5	835.5	1154.5	619.4
72.5°	47.0	46.8	49.0	56.2	60.9	66.8	102.5	468.2	671.0	295.7
75°	36.3	37.8	40.5	47.0	49.8	48.4	55.6	171.0	240.4	89.6
77.5°	28.4	29.6	32.0	38.3	41.2	34.3	32.0	61.2	77.3	32.2
80°	12.8	13.8	21.8	28.3	33.6	23.7	17.4	31.3	34.3	14.6
82.5°	2.3	3.9	12.8	14.9	17.2	15.4	9.0	16.2	16.8	5.9
85°	0.1	0.3	4.5	5.5	6.9	5.0	2.7	6.5	5.6	2.0
87.5°	0.0	0.0	0.0	0.1	0.1	0.7	0.9	1.1	0.9	0.7
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°
561.2	0°	561.2	561.2	561.2	561.2	561.2	561.2	561.2	561.2	561.2	561.2
562.5	2.5°	552.2	531.8	512.0	495.7	486.3	470.2	459.6	457.8	453.4	457.3
564.0	5°	541.6	505.1	468.2	435.1	408.0	373.0	346.8	335.8	326.1	329.4
567.7	7.5°	536.5	478.9	421.5	365.1	307.0	251.0	209.4	192.0	178.8	180.7
571.9	10°	529.8	451.8	361.8	275.6	197.9	142.6	113.9	103.3	97.4	97.5
578.0	12.5°	524.6	419.3	292.4	186.8	120.5	91.0	82.1	79.6	77.8	78.0
587.4	15°	522.0	381.1	223.9	124.5	86.2	77.1	75.0	73.8	72.7	72.5
597.7	17.5°	517.7	338.6	163.9	90.9	75.4	72.2	70.4	69.1	67.6	67.4
606.6	20°	511.3	290.4	119.8	76.8	70.7	68.2	65.6	63.9	62.2	61.9
612.2	22.5°	499.3	239.4	92.1	71.1	67.2	64.5	61.3	59.3	57.6	57.3
609.5	25°	477.2	191.6	77.5	67.5	64.2	60.9	57.4	54.7	53.1	52.8
603.6	27.5°	449.2	150.5	70.4	64.2	60.3	57.3	53.4	50.8	49.4	49.1
595.8	30°	416.2	115.9	66.2	60.5	55.7	53.1	49.7	47.5	46.7	46.7
590.4	32.5°	380.6	92.6	64.5	56.7	51.7	48.8	46.1	45.2	45.0	44.8
593.4	35°	347.1	80.4	63.6	53.7	48.1	45.4	44.2	44.4	45.0	45.0
602.7	37.5°	317.4	76.5	63.2	51.6	45.0	42.5	43.2	44.5	43.9	43.9
619.1	40°	290.5	77.0	62.9	50.0	42.4	40.9	42.4	41.4	39.9	39.8
639.1	42.5°	270.0	80.6	62.3	48.7	40.8	39.8	39.2	37.6	37.5	37.8
659.7	45°	255.1	83.7	62.2	48.1	39.1	37.2	36.5	34.9	37.8	38.5
668.2	47.5°	237.4	83.7	62.2	46.1	36.2	35.5	34.3	32.6	35.5	36.2
660.2	50°	214.6	78.4	59.7	43.8	33.9	33.5	31.5	29.3	28.7	29.2
641.4	52.5°	185.7	68.8	53.6	40.6	31.6	30.7	28.3	26.7	26.3	26.3
607.6	55°	152.8	57.6	45.2	36.0	29.2	27.6	25.8	25.1	24.7	24.4
560.4	57.5°	124.2	47.2	36.3	32.0	26.9	24.8	24.3	23.4	22.7	22.3
520.9	60°	102.0	37.2	30.0	28.4	24.6	22.7	22.5	21.4	19.5	19.2
488.3	62.5°	78.7	27.3	25.3	24.7	22.3	20.7	20.4	18.1	15.2	14.6
442.0	65°	55.6	21.3	20.4	21.7	19.8	18.4	17.7	14.2	11.2	10.8
369.9	67.5°	39.1	17.8	16.1	19.0	17.2	15.4	14.9	12.1	9.3	9.0
279.8	70°	27.9	14.5	13.2	16.2	13.8	13.5	12.6	10.1	7.6	7.3
138.4	72.5°	19.7	11.1	10.2	14.1	9.5	11.6	10.3	7.8	5.7	5.5
47.1	75°	14.5	7.9	7.2	8.2	6.9	8.8	7.3	5.2	3.6	3.4
21.3	77.5°	10.6	5.0	4.3	4.0	4.0	5.5	4.0	2.2	1.6	1.4
10.8	80°	7.5	2.3	2.0	1.7	1.6	1.3	0.6	0.3	0.1	0.1
3.7	82.5°	4.5	1.0	1.0	0.7	0.4	0.0	0.0	0.0	0.0	0.0
1.4	85°	1.0	0.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0
0.6	87.5°	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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