

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: P944980

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944980
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-827-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3968 lumens
Efficiency: N/A
Efficacy: 128.4 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

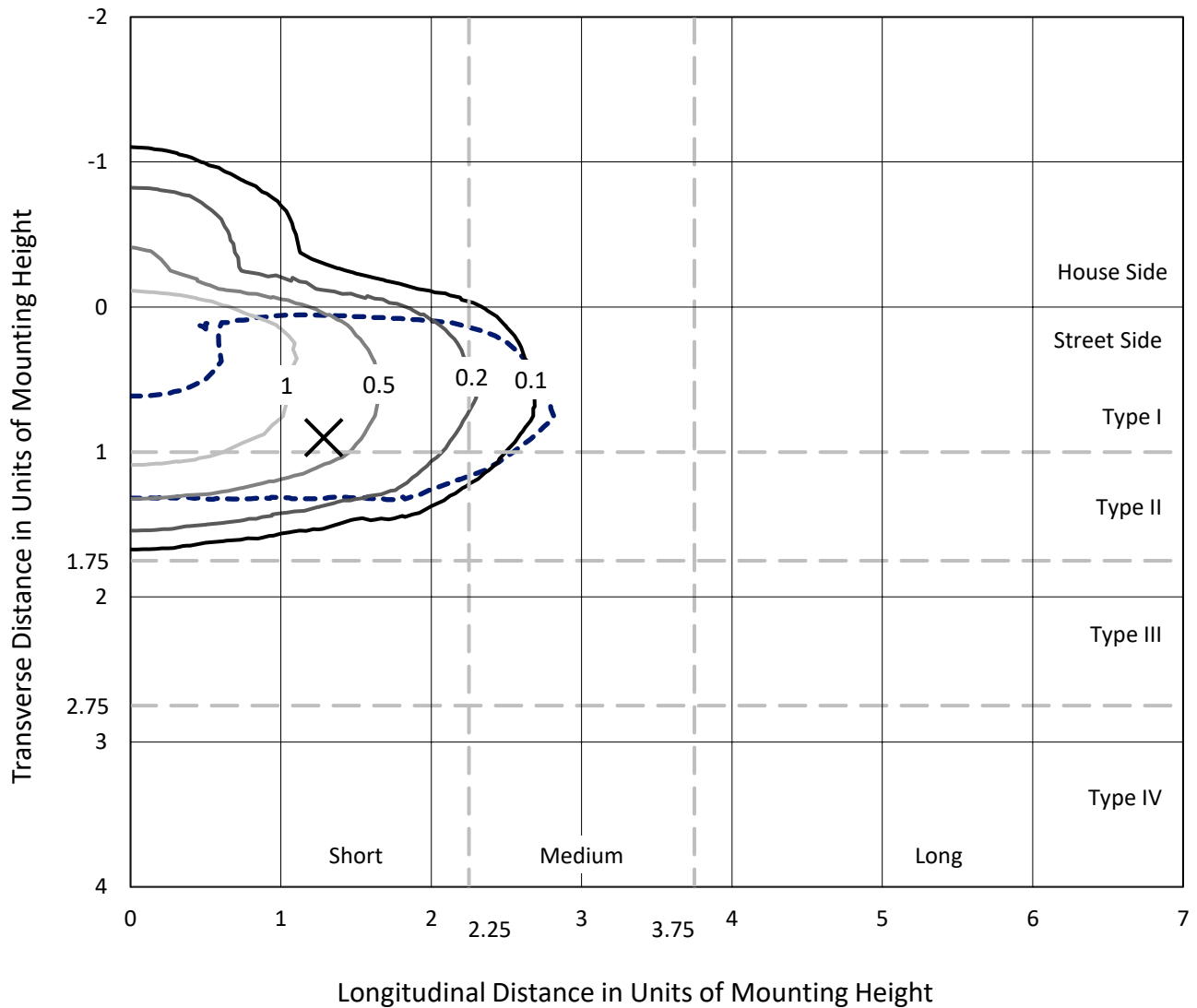
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

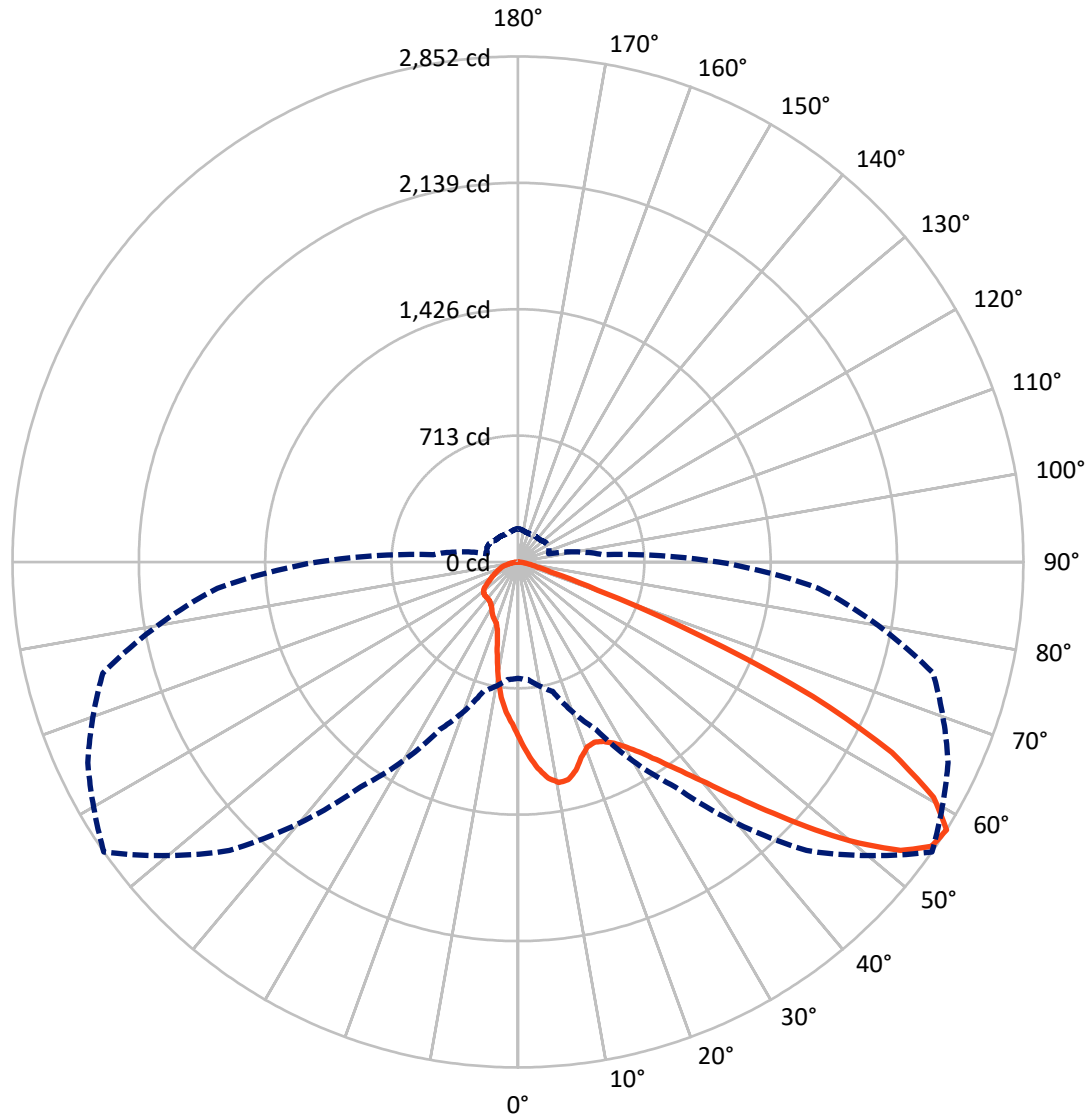
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	718.0	0.0	718.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	3250.0	0.0	3250.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	3968.0	0.0	3968.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	2.3
10°-20°	232.9	5.9
20°-30°	371.6	9.4
30°-40°	588.3	14.8
40°-50°	900.5	22.7
50°-60°	964.5	24.3
60°-70°	606.8	15.3
70°-80°	179.4	4.5
80°-90°	31.7	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°	3968.0	100.0
0°-180°	3968.0	100.0

Coefficient of Utilization



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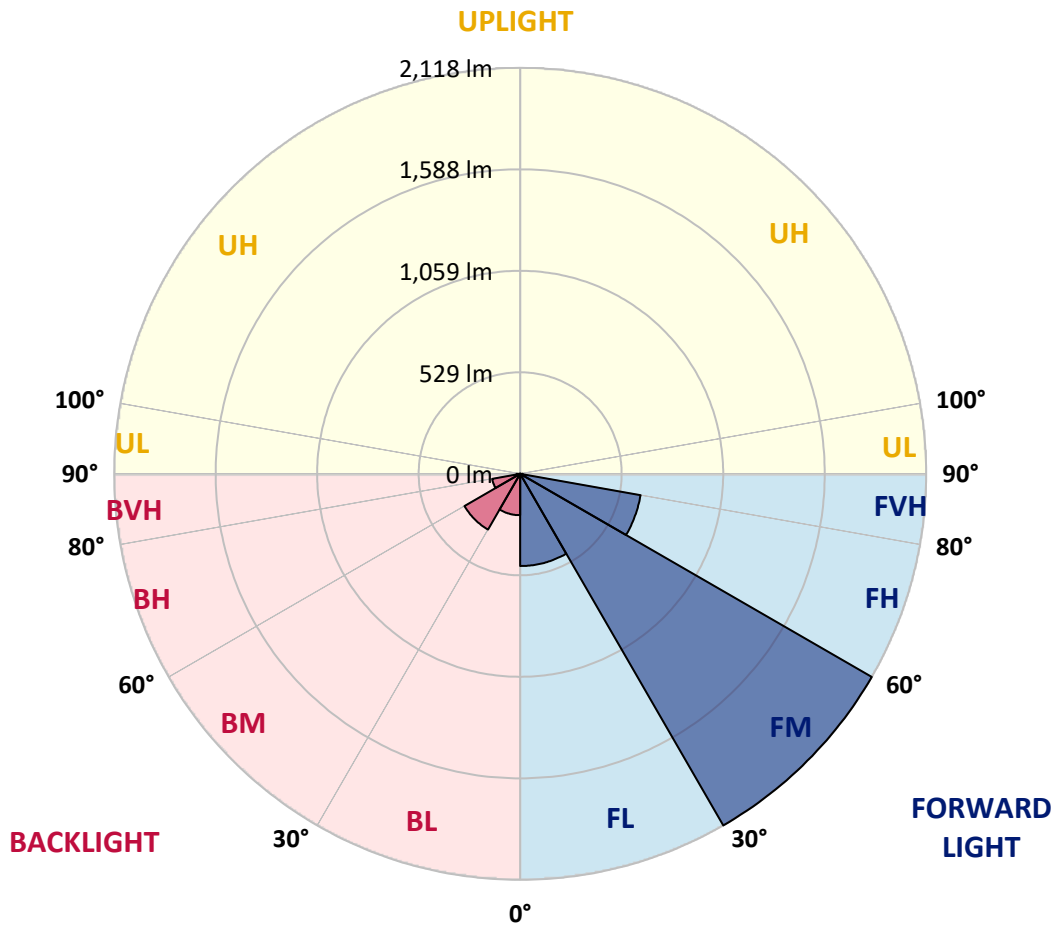
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	480.9	12.1			
FM (30°-60°)	2117.7	53.4			
FH (60°-80°)	637.9	16.1			G0/660
FVH (80°-90°)	13.4	0.3			G1/100
BL (0°-30°)	215.8	5.4	B1/500		
BM (30°-60°)	335.6	8.5	B1/1000		
BH (60°-80°)	148.3	3.7	B1/500		G1/500
BVH (80°-90°)	18.3	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°	994.3	994.3	994.3	994.3	994.3	994.3	994.3	994.3	994.3	994.3
2.5°	1140.7	1139.9	1144.4	1129.0	1118.6	1104.4	1085.7	1061.9	1036.3	1009.2
5°	1243.5	1236.3	1241.0	1229.5	1218.0	1196.7	1169.0	1130.3	1082.9	1028.9
7.5°	1227.3	1222.4	1234.5	1244.7	1253.3	1250.7	1230.4	1189.7	1128.6	1050.3
10°	1096.6	1091.1	1108.1	1143.6	1195.7	1241.0	1265.6	1240.4	1175.4	1073.6
12.5°	981.3	978.7	989.9	1018.7	1076.5	1163.5	1261.1	1284.7	1224.0	1101.3
15°	932.1	928.8	936.0	950.6	987.5	1068.5	1220.1	1315.1	1271.8	1133.3
17.5°	921.2	917.5	920.6	928.2	952.0	1013.7	1158.1	1330.0	1321.6	1169.0
20°	941.3	938.3	938.7	938.3	954.9	1003.9	1115.1	1324.3	1365.1	1201.8
22.5°	989.9	984.8	985.0	974.1	983.2	1021.1	1103.8	1308.9	1403.9	1230.6
25°	1069.1	1059.9	1061.7	1034.0	1031.6	1059.7	1121.4	1297.0	1442.5	1253.5
27.5°	1177.4	1167.0	1161.4	1120.2	1100.5	1114.5	1157.3	1301.1	1479.0	1273.4
30°	1312.8	1300.1	1288.8	1230.4	1194.7	1189.5	1213.1	1328.2	1522.0	1294.4
32.5°	1478.8	1464.0	1443.5	1365.9	1315.7	1288.8	1285.3	1376.4	1572.5	1321.0
35°	1676.3	1657.0	1627.9	1527.6	1464.0	1409.0	1380.5	1445.9	1641.6	1361.2
37.5°	1879.8	1858.0	1831.4	1712.0	1633.8	1552.8	1496.6	1540.3	1733.7	1415.8
40°	2067.5	2043.1	2018.2	1912.0	1828.1	1730.5	1638.8	1659.7	1846.4	1481.0
42.5°	2178.2	2160.2	2150.8	2093.3	2028.5	1929.4	1815.6	1801.2	1972.9	1556.1
45°	2173.3	2165.9	2195.1	2218.9	2203.5	2148.5	2022.8	1957.7	2099.9	1621.1
47.5°	2057.2	2062.1	2127.2	2260.9	2319.8	2348.5	2258.7	2111.4	2210.2	1669.7
50°	1741.3	1745.4	1896.0	2184.4	2349.7	2511.6	2492.7	2261.3	2295.8	1699.5
52.5°	1491.3	1493.9	1558.6	1957.5	2250.9	2593.6	2703.6	2402.7	2358.3	1707.7
55°	1123.3	1132.5	1204.9	1535.8	1993.6	2528.6	2832.0	2548.3	2397.9	1708.5
57.5°	656.2	666.3	755.7	1042.5	1549.5	2301.9	2851.5	2677.5	2424.8	1701.9
60°	321.4	325.7	364.7	547.9	955.5	1865.2	2694.8	2740.1	2439.8	1698.5
62.5°	216.6	216.0	217.6	270.4	470.8	1198.4	2368.2	2630.6	2431.8	1685.1
65°	186.3	184.0	177.8	189.7	243.9	548.1	1829.7	2303.6	2370.9	1651.7
67.5°	161.0	161.2	161.4	157.7	174.2	252.9	1118.1	1814.6	2152.2	1493.3
70°	133.3	135.2	136.0	136.0	141.9	165.9	477.3	1243.7	1697.6	1170.9
72.5°	121.4	117.5	117.9	115.9	115.9	126.4	192.2	705.0	1069.5	658.7
75°	99.1	101.5	101.9	100.5	95.8	96.4	114.1	295.8	457.6	273.2
77.5°	85.5	85.5	86.4	85.3	81.6	72.2	76.1	114.7	155.7	112.0
80°	68.7	68.5	72.0	74.1	68.3	53.3	48.6	63.4	69.1	49.2
82.5°	33.4	35.5	49.4	56.4	51.9	38.6	29.7	39.4	36.9	21.7
85°	19.5	18.5	22.2	31.4	29.7	21.3	14.4	20.5	19.3	11.1
87.5°	6.2	5.7	4.5	10.7	8.6	5.9	3.9	5.9	5.3	2.5
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°
994.3	0°	994.3	994.3	994.3	994.3	994.3	994.3	994.3	994.3	994.3	994.3
997.5	2.5°	983.0	958.8	934.8	912.8	899.5	890.9	882.3	872.6	868.9	863.4
1000.2	5°	973.1	926.4	884.7	848.8	816.2	790.6	764.7	743.8	734.4	740.7
1008.6	7.5°	967.4	899.7	835.5	769.6	706.3	655.6	611.5	580.5	566.6	570.0
1016.8	10°	962.3	869.5	771.7	667.7	576.6	513.8	468.7	445.1	436.3	438.2
1027.9	12.5°	957.5	835.7	694.8	557.9	461.1	419.7	406.8	407.0	408.6	409.8
1045.5	15°	956.7	794.9	608.8	461.9	398.8	396.1	410.0	418.9	423.6	425.0
1060.3	17.5°	955.5	746.0	521.2	396.5	383.6	401.6	414.6	420.3	424.0	424.2
1074.7	20°	950.6	684.1	440.4	365.3	380.3	395.9	403.9	408.4	411.5	412.5
1085.5	22.5°	935.4	615.2	377.4	351.4	367.2	379.7	389.1	394.3	396.1	397.3
1087.6	25°	908.1	538.0	333.9	338.0	348.9	364.7	372.3	373.3	372.7	374.6
1082.5	27.5°	872.4	455.4	306.9	320.0	333.9	347.5	351.6	351.0	349.7	351.8
1073.6	30°	829.3	381.1	289.6	299.7	318.8	331.1	334.8	333.3	330.9	333.1
1069.1	32.5°	783.8	320.4	275.5	285.5	306.3	318.4	322.0	320.6	318.8	320.6
1074.3	35°	741.3	277.9	262.4	276.1	296.4	308.3	313.0	313.2	313.2	315.5
1087.8	37.5°	702.4	253.1	251.5	270.2	289.6	300.3	307.1	307.5	298.7	299.3
1110.8	40°	666.3	242.7	246.6	266.3	283.1	293.3	293.7	270.8	254.6	254.2
1137.0	42.5°	636.7	240.6	248.0	265.8	278.4	278.8	249.8	232.0	227.5	227.7
1161.2	45°	609.0	240.0	251.3	265.8	271.4	240.8	221.3	216.6	217.0	218.7
1172.1	47.5°	578.0	237.5	251.9	262.2	251.3	214.2	208.4	206.4	205.5	205.9
1169.6	50°	544.2	228.7	244.1	254.8	216.8	202.7	195.5	194.9	195.9	196.5
1155.9	52.5°	508.5	214.4	230.8	241.4	201.0	192.6	184.6	186.1	190.6	192.0
1141.5	55°	485.1	197.5	213.1	214.8	189.9	183.2	176.4	179.7	188.1	190.8
1132.9	57.5°	479.0	179.7	193.0	191.2	175.8	175.0	170.9	173.7	184.4	188.3
1132.5	60°	477.1	163.7	173.3	171.9	162.1	165.9	164.9	166.4	170.1	171.3
1128.4	62.5°	462.8	151.0	155.7	153.6	149.7	156.5	159.0	155.9	158.8	160.2
1100.3	65°	426.3	140.7	138.5	137.0	138.7	144.8	149.7	143.6	146.3	150.4
992.0	67.5°	365.9	126.8	120.6	122.3	127.4	130.7	137.0	130.1	132.3	139.3
799.0	70°	296.0	109.1	103.6	108.3	113.2	120.0	121.0	116.3	121.6	129.4
487.6	72.5°	209.4	91.3	87.4	97.0	98.7	107.5	105.2	103.0	110.4	113.0
241.0	75°	145.2	73.6	71.4	78.8	84.7	92.3	90.7	93.3	108.9	110.2
120.4	77.5°	91.9	57.2	55.8	60.5	68.7	77.1	79.8	110.2	186.1	193.4
62.6	80°	53.3	42.7	41.0	44.7	51.9	59.7	76.9	135.2	122.7	121.2
28.1	82.5°	29.7	29.3	27.3	28.3	34.7	43.1	108.7	95.2	77.3	79.8
11.3	85°	13.9	17.2	14.8	14.2	19.5	50.5	72.6	54.4	36.1	35.3
2.5	87.5°	3.7	3.3	3.3	3.7	8.2	43.5	28.9	23.2	13.7	13.3
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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