

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: P939549

Luminaire Tested: **GALN-SB2A-940-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939549
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-SB2A-940-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6425 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

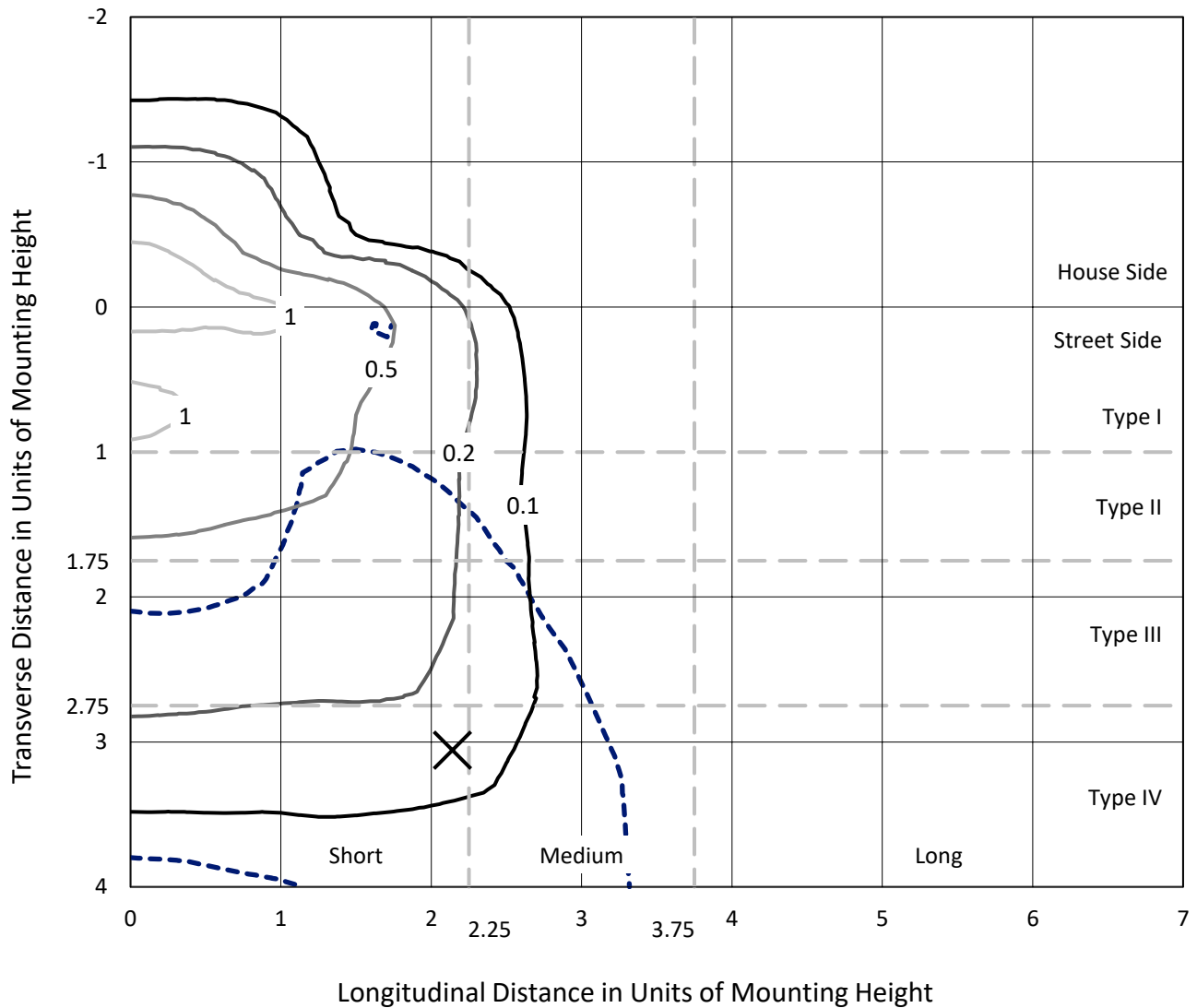
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939549
 CATALOG NUMBER: GALN-SB2A-940-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

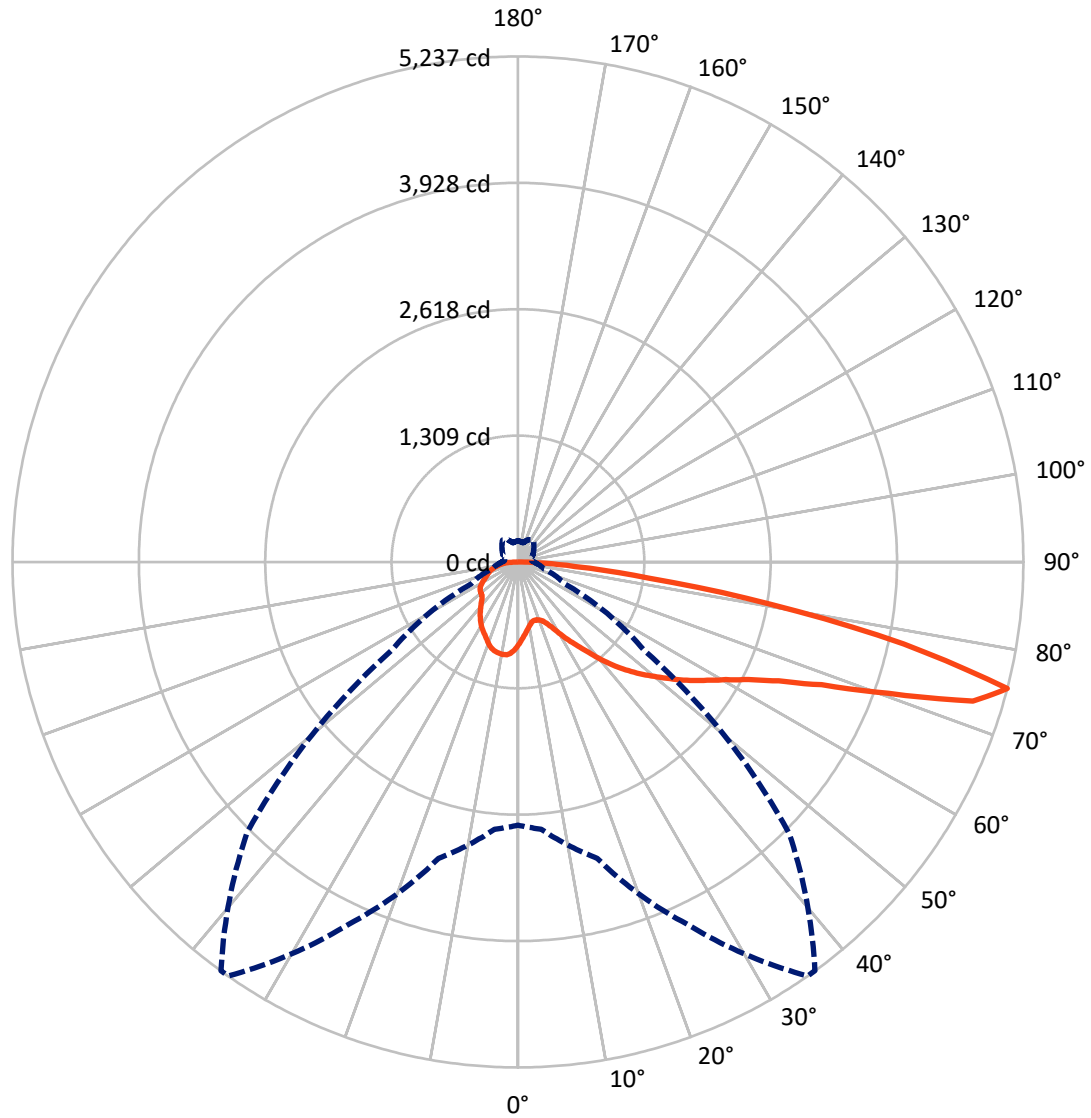
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P939549
CATALOG NUMBER: GALN-SB2A-940-U-T4FT

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GALN-SB2A-940-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1529.0	0.0	1529.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	4896.0	0.0	4896.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	6425.0	0.0	6425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.1	1.3
10°-20°	233.8	3.6
20°-30°	392.6	6.1
30°-40°	610.2	9.5
40°-50°	905.7	14.1
50°-60°	1250.4	19.5
60°-70°	1517.0	23.6
70°-80°	1253.7	19.5
80°-90°	180.3	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°	6425.0	100.0
0°-180°	6425.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939549

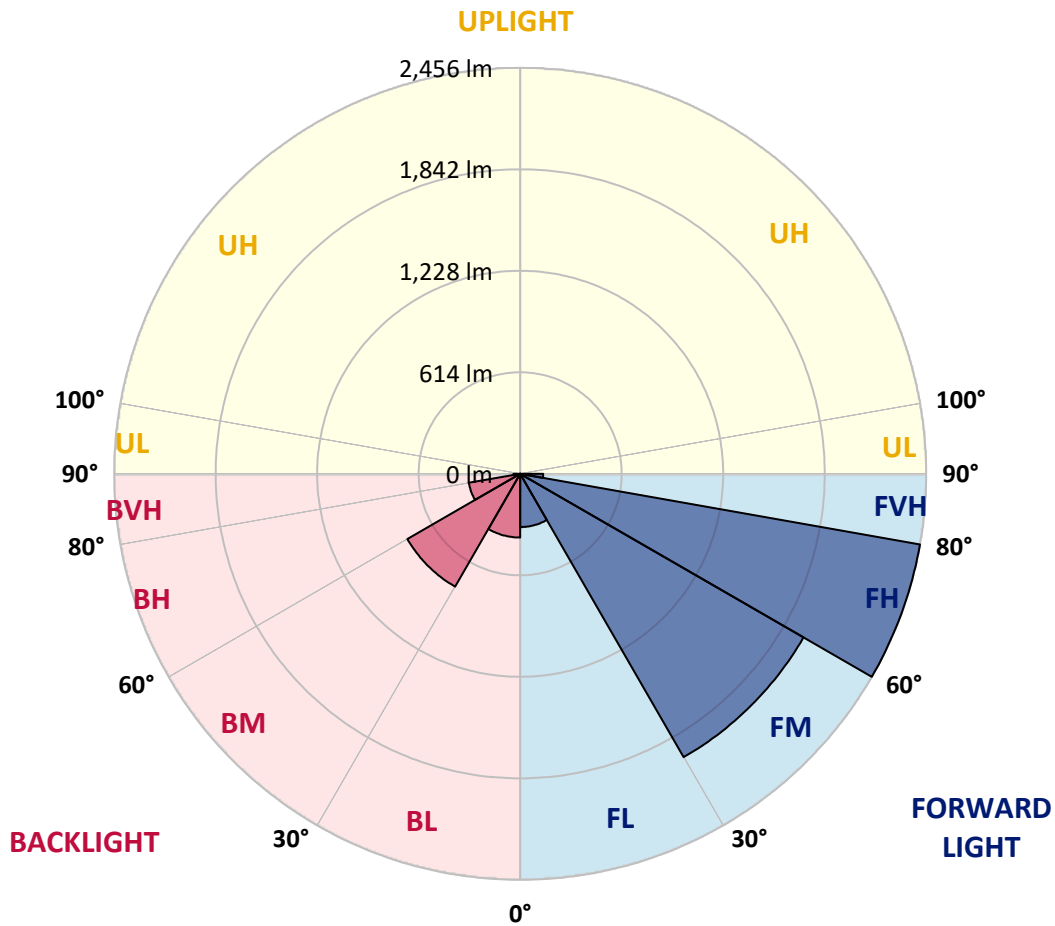
CATALOG NUMBER: GALN-SB2A-940-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	322.2	5.0			
FM (30°-60°)	1978.6	30.8			
FH (60°-80°)	2455.5	38.2			G2/5000
FVH (80°-90°)	139.7	2.2			G2/225
BL (0°-30°)	385.3	6.0	B1/500		
BM (30°-60°)	787.8	12.3	B1/1000		
BH (60°-80°)	315.2	4.9	B1/500		G1/500
BVH (80°-90°)	40.6	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-G2

Type IV Short



REPORT NUMBER: P939549

CATALOG NUMBER: GALN-SB2A-940-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	856.2	856.2	856.2	856.2	856.2	856.2	856.2	856.2	856.2	856.2
2.5°	789.5	794.3	796.4	795.4	800.6	799.9	807.2	816.2	828.7	840.9
5°	728.7	733.9	738.4	742.6	752.7	755.8	767.3	784.6	807.5	830.8
7.5°	672.1	676.6	683.6	691.2	708.2	711.3	730.4	757.5	789.5	823.5
10°	625.9	630.4	637.7	646.4	667.6	671.4	695.7	731.8	773.5	816.6
12.5°	606.1	607.5	611.7	620.3	638.7	641.2	667.9	709.3	757.9	811.4
15°	605.1	607.8	608.2	612.7	628.0	629.0	653.7	694.7	748.2	810.3
17.5°	615.5	617.6	614.4	617.2	630.1	631.8	651.2	687.7	745.0	814.8
20°	643.3	645.0	635.6	631.8	641.2	642.6	661.7	692.2	748.2	824.2
22.5°	702.3	703.3	680.4	664.8	665.5	666.2	682.9	710.6	760.3	841.2
25°	794.3	793.7	757.2	727.0	709.6	705.8	716.9	740.5	780.8	863.8
27.5°	902.0	896.8	860.3	815.2	777.3	771.8	769.3	779.4	810.0	893.7
30°	1023.6	1018.7	979.5	920.4	868.0	859.0	836.0	830.8	853.4	934.3
32.5°	1157.0	1153.8	1106.9	1035.4	965.2	954.8	916.3	902.4	920.1	995.8
35°	1268.8	1266.0	1227.1	1153.5	1067.7	1054.8	1015.6	1000.0	1009.0	1074.6
37.5°	1369.9	1368.5	1335.1	1277.1	1188.6	1172.9	1128.8	1123.6	1121.9	1178.5
40°	1463.7	1460.2	1425.5	1394.9	1329.2	1315.0	1276.1	1271.6	1258.4	1306.3
42.5°	1567.5	1558.5	1508.1	1493.9	1476.2	1464.4	1441.1	1441.8	1412.6	1450.5
45°	1652.3	1647.1	1595.3	1587.0	1606.1	1601.2	1621.3	1626.6	1569.9	1601.6
47.5°	1743.3	1738.4	1694.6	1688.7	1740.5	1741.9	1813.1	1814.8	1723.5	1758.5
50°	1855.5	1848.5	1805.1	1812.4	1870.4	1875.6	2005.8	1994.0	1864.8	1918.0
52.5°	1929.4	1933.6	1924.2	1936.0	2015.2	2020.1	2195.5	2165.3	2004.8	2075.3
55°	1984.0	1992.3	2021.5	2048.6	2168.0	2172.9	2374.4	2328.2	2120.8	2221.2
57.5°	2054.1	2042.3	2096.8	2149.6	2313.2	2326.1	2548.4	2485.2	2223.6	2346.9
60°	2154.9	2146.5	2188.9	2267.0	2475.8	2496.3	2732.5	2626.5	2299.0	2446.6
62.5°	2359.1	2338.2	2344.8	2414.0	2680.7	2707.8	2940.2	2749.8	2336.5	2485.5
65°	2664.4	2628.6	2595.3	2643.2	2969.3	2996.1	3174.6	2846.7	2322.6	2410.1
67.5°	3048.9	3013.5	2972.5	3017.6	3394.5	3415.7	3463.9	2901.3	2213.2	2119.8
70°	3366.0	3352.8	3401.8	3587.6	4073.5	4074.2	3834.9	2856.1	1913.5	1502.9
72.5°	3324.0	3316.0	3574.1	4148.5	4929.3	4910.9	4186.1	2514.3	1289.0	678.0
75°	2726.9	2778.7	3178.4	4138.5	5236.7	5234.3	3971.1	1598.4	533.2	281.0
77.5°	1462.3	1544.2	2063.5	3055.5	4088.1	4149.6	2791.9	559.2	228.9	179.9
80°	476.9	548.4	822.5	1555.7	2656.4	2644.9	1196.6	219.5	156.6	127.5
82.5°	202.5	210.8	367.5	734.6	1363.3	1342.1	381.0	126.1	110.1	87.2
85°	79.2	88.6	162.2	339.7	590.5	577.6	137.5	62.5	70.5	57.0
87.5°	26.0	31.6	58.0	116.4	183.7	177.1	33.7	21.5	30.6	26.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939549
 CATALOG NUMBER: GALN-SB2A-940-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
856.2	0°	856.2	856.2	856.2	856.2	856.2	856.2	856.2	856.2	856.2	856.2
858.6	2.5°	863.5	869.0	875.6	885.4	893.7	900.6	907.9	912.4	914.2	919.4
860.0	5°	869.7	881.9	898.2	914.2	929.8	939.2	947.5	951.7	955.5	958.3
863.8	7.5°	880.1	895.8	921.5	942.3	955.5	963.2	968.7	967.3	968.7	969.4
868.0	10°	889.2	911.1	941.6	961.4	971.5	971.8	970.4	965.6	963.2	963.5
874.2	12.5°	899.9	924.3	957.2	973.9	976.7	969.1	963.2	954.8	951.7	950.3
883.6	15°	914.5	942.3	974.3	980.5	973.6	963.8	953.8	940.2	933.3	927.7
899.6	17.5°	932.2	962.8	987.5	983.0	968.0	952.0	935.7	915.2	901.0	895.1
921.5	20°	956.9	984.3	997.5	977.7	955.2	930.9	903.1	878.1	864.9	859.0
949.3	22.5°	986.8	1013.2	1007.3	968.7	936.8	897.9	863.1	844.7	838.1	833.9
985.0	25°	1022.5	1045.1	1014.2	955.5	906.5	854.1	827.3	821.4	818.3	815.2
1028.8	27.5°	1069.1	1081.2	1019.4	936.1	859.3	807.5	797.8	798.9	797.8	792.6
1089.6	30°	1130.6	1128.1	1024.3	904.5	805.1	765.5	766.2	770.7	771.4	768.0
1174.3	32.5°	1211.5	1186.8	1026.7	863.5	753.4	728.7	729.4	734.3	737.7	731.8
1285.1	35°	1309.4	1255.3	1022.9	812.1	713.4	693.6	688.4	689.8	690.8	685.3
1419.5	37.5°	1423.7	1332.0	1005.9	755.1	680.4	659.2	648.1	638.7	633.2	628.0
1571.7	40°	1549.1	1415.7	974.6	699.5	643.6	622.8	606.1	588.4	569.6	562.7
1732.8	42.5°	1680.4	1501.9	936.8	646.4	601.2	584.2	566.5	540.8	512.7	498.4
1900.3	45°	1816.5	1590.1	899.6	593.9	557.8	550.5	530.0	499.1	468.6	450.5
2068.0	47.5°	1949.9	1673.4	845.1	541.1	517.2	525.2	509.2	480.7	446.7	418.2
2234.4	50°	2077.4	1751.6	755.8	487.7	484.2	517.5	502.2	461.3	422.4	385.9
2397.6	52.5°	2203.8	1814.8	641.5	439.0	466.5	515.4	493.2	448.1	400.5	362.3
2551.2	55°	2311.2	1847.5	531.4	397.3	440.8	497.7	482.4	432.4	369.6	328.9
2656.4	57.5°	2372.3	1821.1	439.7	356.4	405.3	468.6	464.0	399.1	332.7	301.5
2676.9	60°	2345.9	1714.1	364.7	320.6	371.6	436.9	432.1	366.1	304.6	275.1
2567.1	62.5°	2200.4	1510.2	305.3	289.3	341.1	404.6	400.1	340.7	283.1	254.6
2275.7	65°	1907.2	1228.5	259.1	263.3	310.2	365.7	372.3	319.5	266.1	238.3
1760.6	67.5°	1454.6	889.9	223.0	240.7	280.0	327.5	346.6	304.3	251.8	225.4
1018.7	70°	829.1	505.4	192.4	218.8	253.2	292.1	326.8	292.1	236.5	214.7
381.7	72.5°	314.3	232.0	166.4	196.9	227.5	262.2	305.0	273.0	218.8	202.5
197.3	75°	167.8	141.4	140.0	171.2	198.0	233.1	277.5	254.2	205.6	214.0
136.5	77.5°	114.3	100.0	117.1	146.6	165.7	200.8	248.3	225.8	178.2	177.5
94.5	80°	79.2	70.9	95.2	118.1	128.2	168.8	216.7	193.8	145.2	135.5
58.4	82.5°	47.6	46.2	71.2	88.2	90.7	130.2	179.6	162.6	118.8	103.5
34.7	85°	26.0	27.4	45.5	51.8	52.8	91.0	140.7	125.7	91.3	76.8
12.5	87.5°	7.3	9.4	16.7	20.5	25.4	47.2	83.7	74.7	45.8	32.0
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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180°
856.2
919.0
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