

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: P938959

Luminaire Tested: **GALN-SB1B-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938959
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-SB1B-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4841 lumens
Efficiency: N/A
Efficacy: 121.6 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

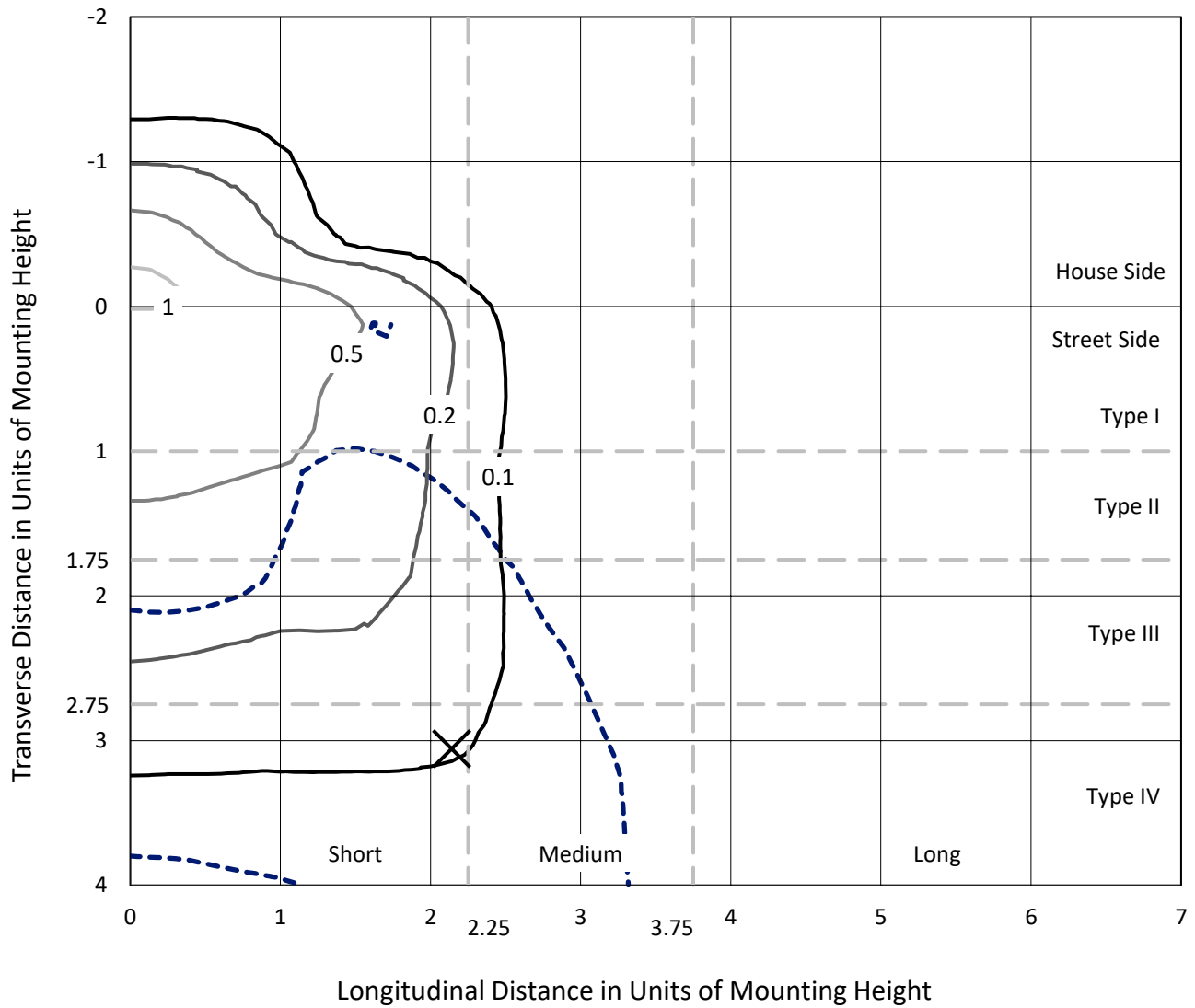
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

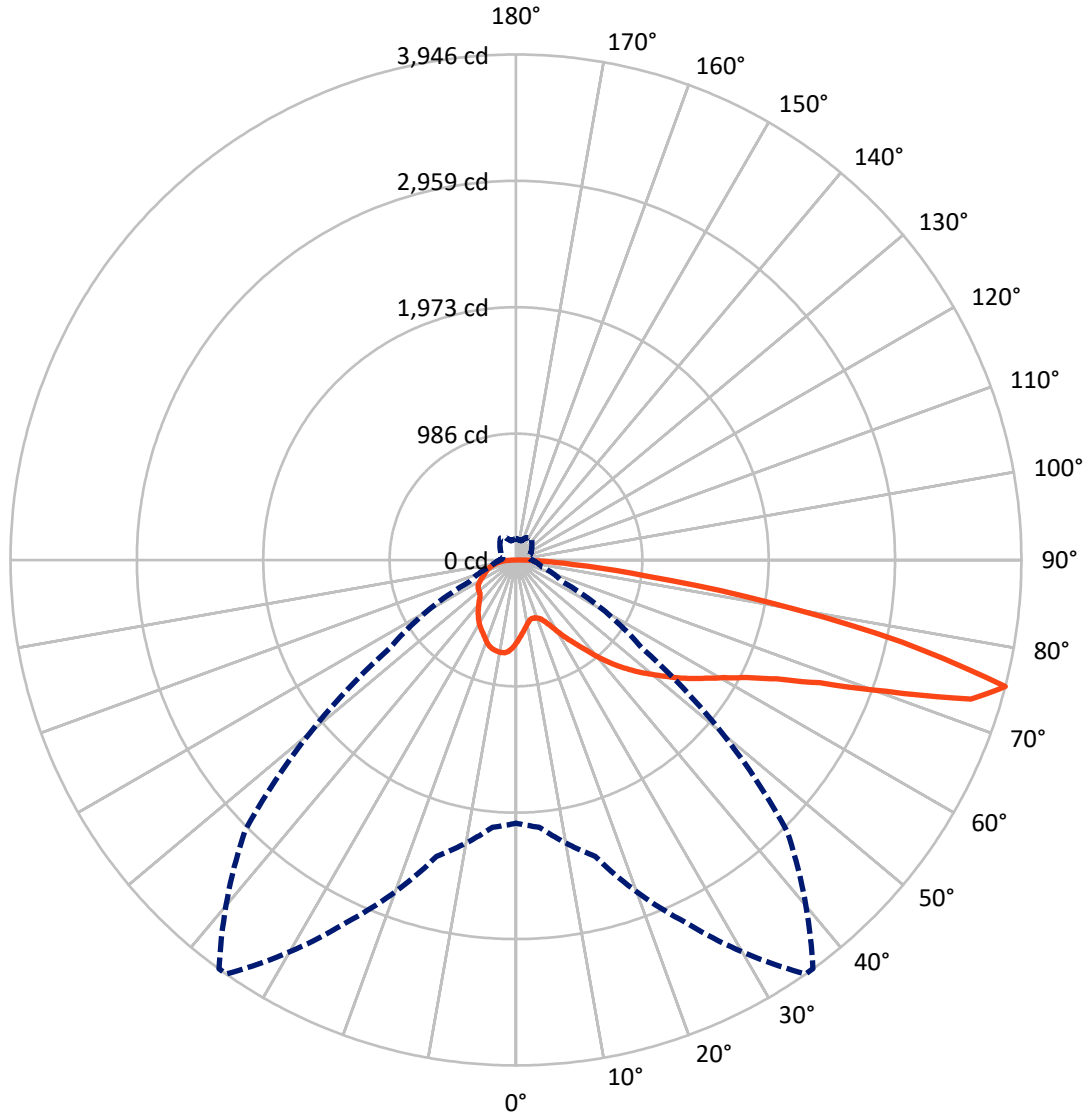
× Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1152.0	0.0	1152.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	3689.0	0.0	3689.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	4841.0	0.0	4841.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	1.3
10°-20°	176.2	3.6
20°-30°	295.8	6.1
30°-40°	459.8	9.5
40°-50°	682.4	14.1
50°-60°	942.1	19.5
60°-70°	1143.0	23.6
70°-80°	944.6	19.5
80°-90°	135.9	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°	4841.0	100.0
0°-180°	4841.0	100.0

Coefficient of Utilization



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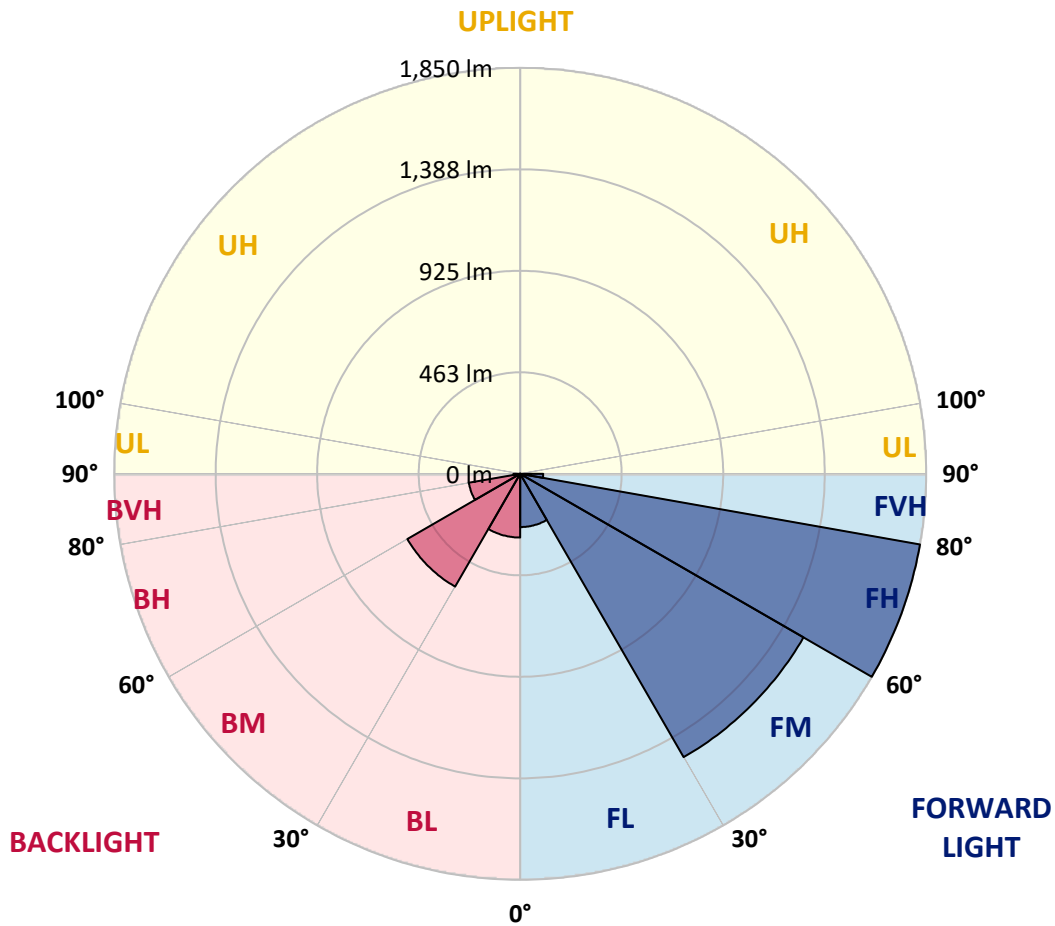
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	242.8	5.0			
FM (30°-60°)	1490.8	30.8			
FH (60°-80°)	1850.2	38.2			G2/5000
FVH (80°-90°)	105.3	2.2			G2/225
BL (0°-30°)	290.3	6.0	B1/500		
BM (30°-60°)	593.6	12.3	B1/1000		
BH (60°-80°)	237.5	4.9	B1/500		G1/500
BVH (80°-90°)	30.6	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	645.1	645.1	645.1	645.1	645.1	645.1	645.1	645.1	645.1	645.1
2.5°	594.8	598.5	600.1	599.3	603.2	602.7	608.2	615.0	624.4	633.6
5°	549.1	553.0	556.4	559.5	567.1	569.5	578.1	591.2	608.5	626.0
7.5°	506.4	509.8	515.0	520.8	533.6	536.0	550.4	570.8	594.8	620.5
10°	471.6	475.0	480.5	487.0	503.0	505.9	524.2	551.4	582.8	615.3
12.5°	456.7	457.7	460.9	467.4	481.3	483.1	503.3	534.4	571.0	611.3
15°	455.9	458.0	458.2	461.6	473.2	473.9	492.5	523.4	563.7	610.6
17.5°	463.7	465.3	463.0	465.0	474.7	476.0	490.7	518.2	561.4	614.0
20°	484.7	486.0	478.9	476.0	483.1	484.1	498.5	521.6	563.7	621.0
22.5°	529.2	529.9	512.7	500.9	501.4	501.9	514.5	535.4	572.9	633.8
25°	598.5	598.0	570.5	547.7	534.7	531.8	540.2	557.9	588.3	650.9
27.5°	679.6	675.7	648.2	614.2	585.7	581.5	579.7	587.3	610.3	673.4
30°	771.2	767.6	738.0	693.5	654.0	647.2	629.9	626.0	643.0	704.0
32.5°	871.7	869.4	834.0	780.1	727.3	719.4	690.4	679.9	693.2	750.3
35°	956.0	953.9	924.6	869.1	804.5	794.8	765.2	753.4	760.2	809.7
37.5°	1032.2	1031.1	1006.0	962.3	895.5	883.8	850.5	846.6	845.3	888.0
40°	1102.8	1100.2	1074.0	1051.0	1001.5	990.8	961.5	958.1	948.1	984.3
42.5°	1181.1	1174.3	1136.3	1125.6	1112.2	1103.3	1085.8	1086.3	1064.3	1092.9
45°	1244.9	1241.0	1202.0	1195.7	1210.1	1206.4	1221.6	1225.6	1182.9	1206.7
47.5°	1313.5	1309.8	1276.8	1272.4	1311.4	1312.4	1366.1	1367.4	1298.6	1325.0
50°	1398.0	1392.8	1360.1	1365.6	1409.3	1413.2	1511.3	1502.4	1405.1	1445.1
52.5°	1453.8	1456.9	1449.8	1458.7	1518.4	1522.1	1654.2	1631.5	1510.5	1563.7
55°	1494.8	1501.1	1523.1	1543.5	1633.5	1637.2	1789.0	1754.2	1598.0	1673.6
57.5°	1547.7	1538.8	1579.9	1619.7	1742.9	1752.6	1920.1	1872.5	1675.4	1768.3
60°	1623.6	1617.3	1649.2	1708.1	1865.4	1880.9	2058.8	1979.0	1732.2	1843.4
62.5°	1777.5	1761.8	1766.8	1818.8	2019.8	2040.2	2215.3	2071.9	1760.5	1872.7
65°	2007.5	1980.6	1955.4	1991.6	2237.3	2257.4	2392.0	2144.9	1750.0	1816.0
67.5°	2297.2	2270.5	2239.6	2273.7	2557.6	2573.6	2610.0	2186.0	1667.6	1597.2
70°	2536.2	2526.2	2563.1	2703.1	3069.2	3069.8	2889.5	2152.0	1441.7	1132.4
72.5°	2504.5	2498.5	2692.9	3125.8	3714.1	3700.2	3154.0	1894.5	971.2	510.8
75°	2054.6	2093.6	2394.8	3118.2	3945.7	3943.9	2992.0	1204.4	401.7	211.7
77.5°	1101.8	1163.5	1554.8	2302.2	3080.2	3126.6	2103.6	421.3	172.5	135.6
80°	359.3	413.2	619.7	1172.2	2001.5	1992.9	901.6	165.4	118.0	96.0
82.5°	152.6	158.9	276.9	553.5	1027.2	1011.2	287.1	95.0	83.0	65.7
85°	59.7	66.7	122.2	255.9	444.9	435.2	103.6	47.1	53.1	42.9
87.5°	19.6	23.8	43.7	87.7	138.4	133.5	25.4	16.2	23.0	19.6
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°
645.1	0°	645.1	645.1	645.1	645.1	645.1	645.1	645.1	645.1	645.1	645.1
646.9	2.5°	650.6	654.8	659.8	667.1	673.4	678.6	684.1	687.5	688.8	692.7
648.0	5°	655.3	664.5	676.8	688.8	700.6	707.6	713.9	717.1	719.9	722.0
650.9	7.5°	663.2	674.9	694.3	710.0	719.9	725.7	729.9	728.8	729.9	730.4
654.0	10°	670.0	686.4	709.5	724.4	732.0	732.2	731.2	727.5	725.7	726.0
658.7	12.5°	678.1	696.4	721.3	733.8	735.9	730.1	725.7	719.4	717.1	716.0
665.8	15°	689.1	710.0	734.1	738.8	733.6	726.2	718.6	708.4	703.2	699.0
677.8	17.5°	702.4	725.4	744.0	740.6	729.4	717.3	705.0	689.6	678.9	674.4
694.3	20°	721.0	741.7	751.6	736.7	719.7	701.4	680.4	661.6	651.6	647.2
715.2	22.5°	743.5	763.4	758.9	729.9	705.8	676.5	650.3	636.5	631.5	628.3
742.2	25°	770.5	787.5	764.2	719.9	683.0	643.5	623.4	618.9	616.6	614.2
775.2	27.5°	805.5	814.7	768.1	705.3	647.5	608.5	601.1	601.9	601.1	597.2
821.0	30°	851.8	850.0	771.8	681.5	606.6	576.8	577.3	580.7	581.2	578.6
884.8	32.5°	912.8	894.2	773.6	650.6	567.6	549.1	549.6	553.2	555.9	551.4
968.3	35°	986.6	945.8	770.7	611.9	537.5	522.6	518.7	519.7	520.5	516.3
1069.6	37.5°	1072.7	1003.6	757.9	568.9	512.7	496.7	488.3	481.3	477.1	473.2
1184.2	40°	1167.2	1066.7	734.3	527.1	484.9	469.2	456.7	443.3	429.2	424.0
1305.6	42.5°	1266.1	1131.6	705.8	487.0	453.0	440.2	426.8	407.5	386.3	375.5
1431.8	45°	1368.7	1198.1	677.8	447.5	420.3	414.8	399.4	376.1	353.0	339.4
1558.2	47.5°	1469.2	1260.9	636.7	407.7	389.7	395.7	383.7	362.2	336.5	315.1
1683.5	50°	1565.2	1319.8	569.5	367.4	364.8	389.9	378.4	347.5	318.2	290.8
1806.5	52.5°	1660.5	1367.4	483.4	330.8	351.5	388.4	371.6	337.6	301.7	273.0
1922.2	55°	1741.4	1392.0	400.4	299.4	332.1	375.0	363.5	325.8	278.5	247.8
2001.5	57.5°	1787.4	1372.1	331.3	268.5	305.4	353.0	349.6	300.7	250.7	227.2
2016.9	60°	1767.5	1291.5	274.8	241.6	280.0	329.2	325.6	275.8	229.5	207.3
1934.2	62.5°	1657.9	1137.9	230.0	218.0	257.0	304.9	301.5	256.7	213.3	191.8
1714.7	65°	1437.0	925.6	195.2	198.4	233.7	275.6	280.5	240.8	200.5	179.5
1326.6	67.5°	1096.0	670.5	168.0	181.4	210.9	246.8	261.2	229.3	189.7	169.8
767.6	70°	624.7	380.8	145.0	164.9	190.8	220.1	246.3	220.1	178.2	161.7
287.6	72.5°	236.8	174.8	125.4	148.4	171.4	197.6	229.8	205.7	164.9	152.6
148.6	75°	126.4	106.5	105.5	129.0	149.2	175.6	209.1	191.6	154.9	161.2
102.8	77.5°	86.1	75.4	88.2	110.4	124.8	151.3	187.1	170.1	134.3	133.7
71.2	80°	59.7	53.4	71.7	89.0	96.6	127.2	163.3	146.0	109.4	102.1
44.0	82.5°	35.9	34.8	53.6	66.5	68.3	98.1	135.3	122.5	89.5	78.0
26.2	85°	19.6	20.7	34.3	39.0	39.8	68.6	106.0	94.7	68.8	57.8
9.4	87.5°	5.5	7.1	12.6	15.4	19.1	35.6	63.1	56.3	34.5	24.1
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°
645.1
692.5
722.6
731.2
726.5
715.5
700.3
674.7
646.7
628.9
614.2
598.0
579.9
553.5
519.2
475.8
426.3
376.9
338.4
312.7
288.4
269.8
245.2
224.0
204.1
188.4
176.1
166.7
159.6
150.5
166.4
123.3
97.6
78.5
58.4
24.1
0.0

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