

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: P938749

Luminaire Tested: **GALN-SB1A-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938749
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-SB1A-735-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4435 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

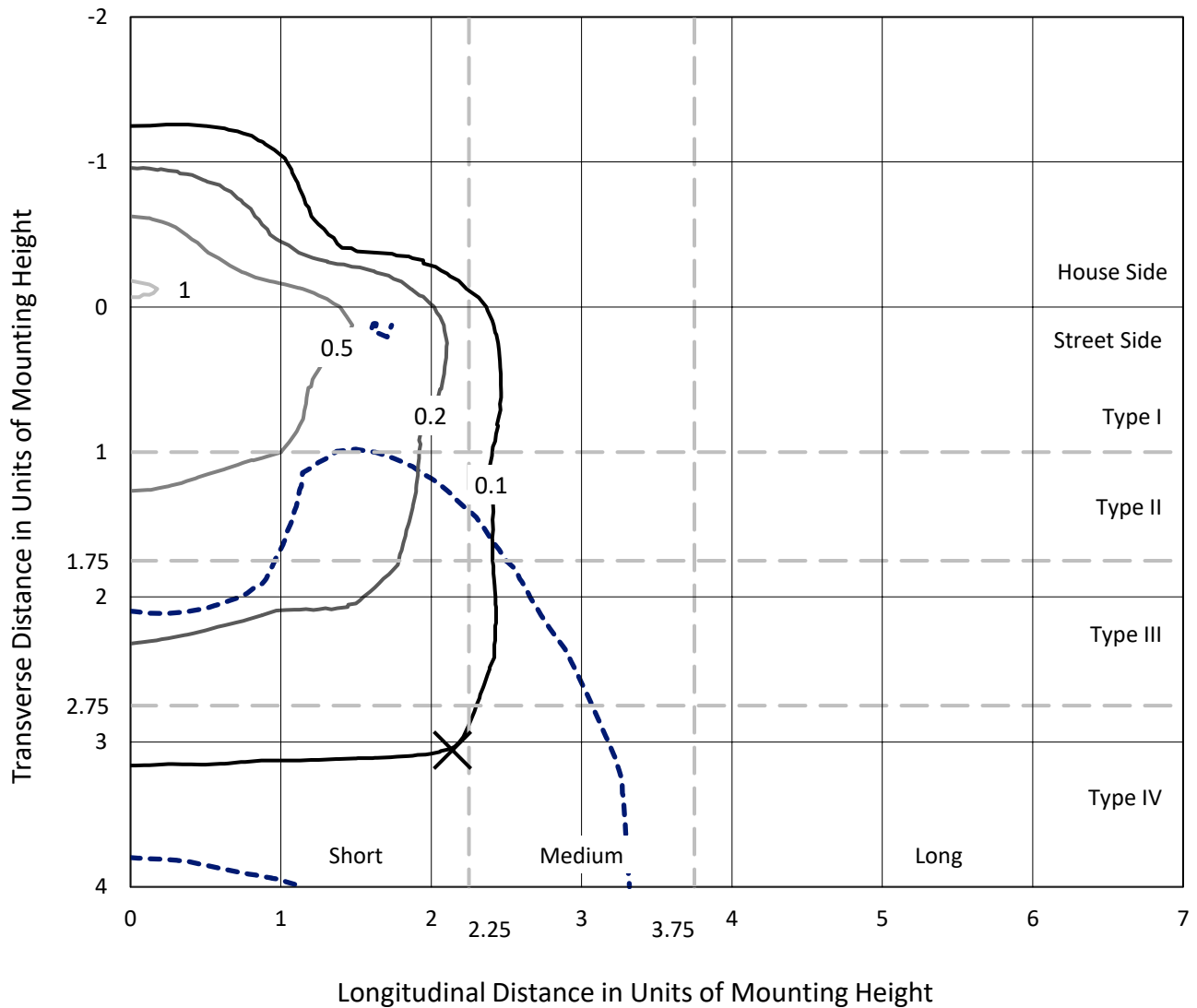
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

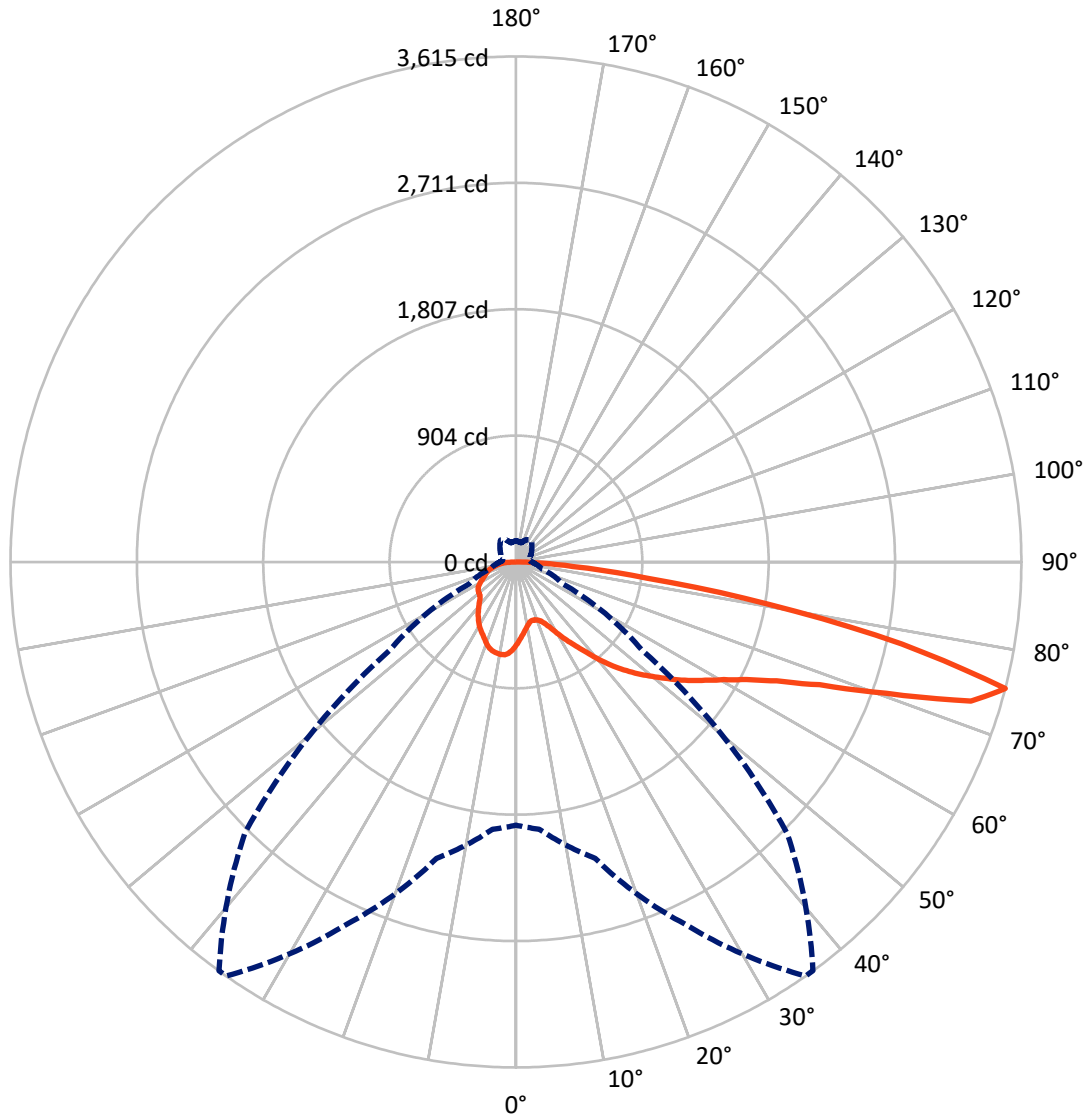
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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	1055.4	0.0	1055.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	3379.6	0.0	3379.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	4435.0	0.0	4435.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	1.3
10°-20°	161.4	3.6
20°-30°	271.0	6.1
30°-40°	421.2	9.5
40°-50°	625.2	14.1
50°-60°	863.1	19.5
60°-70°	1047.2	23.6
70°-80°	865.4	19.5
80°-90°	124.5	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°	4435.0	100.0
0°-180°	4435.0	100.0

Coefficient of Utilization



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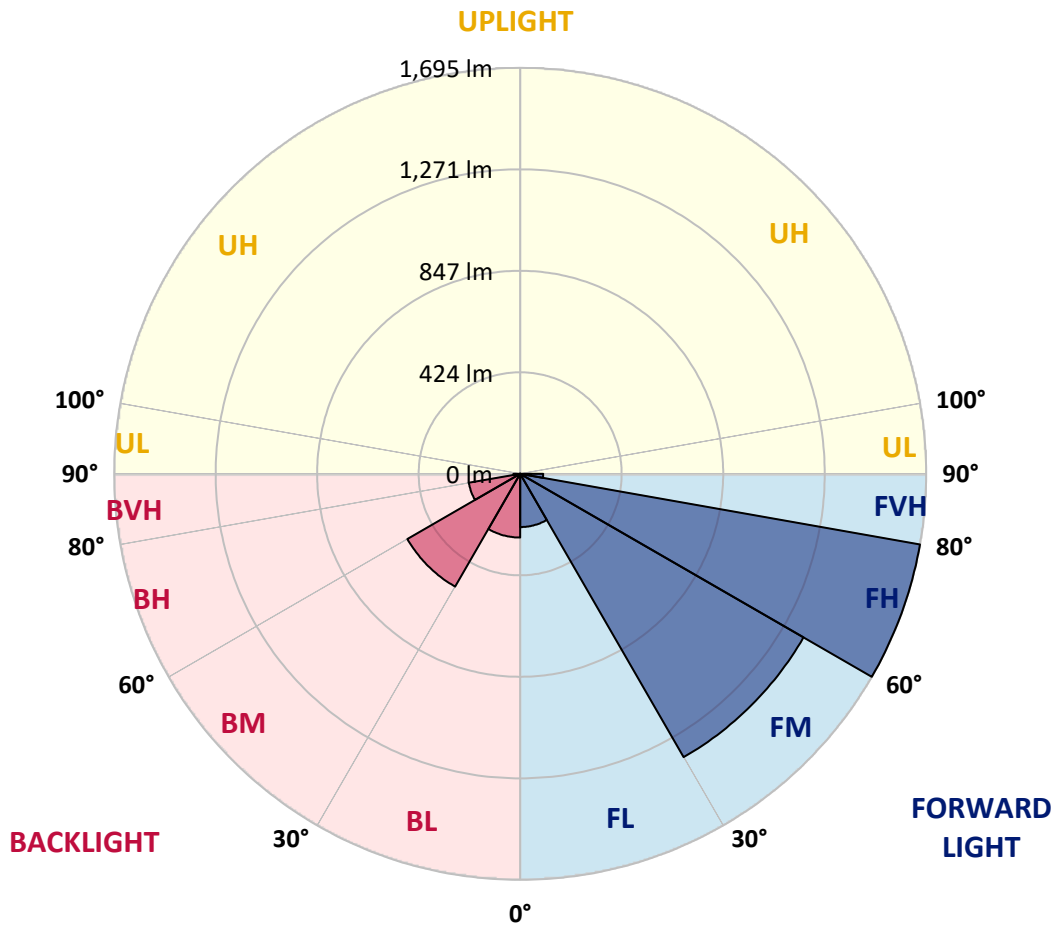
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	222.4	5.0			
FM (30°-60°)	1365.7	30.8			
FH (60°-80°)	1695.0	38.2			G1/1800
FVH (80°-90°)	96.4	2.2			G1/100
BL (0°-30°)	266.0	6.0	B1/500		
BM (30°-60°)	543.8	12.3	B1/1000		
BH (60°-80°)	217.6	4.9	B1/500		G1/500
BVH (80°-90°)	28.0	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-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
2.5°	545.0	548.3	549.8	549.0	552.6	552.2	557.2	563.4	572.1	580.4
5°	503.0	506.6	509.7	512.6	519.5	521.7	529.6	541.6	557.4	573.5
7.5°	463.9	467.0	471.8	477.1	488.9	491.0	504.2	522.9	545.0	568.5
10°	432.0	435.2	440.2	446.2	460.8	463.4	480.2	505.2	533.9	563.7
12.5°	418.4	419.3	422.2	428.2	440.9	442.6	461.0	489.6	523.1	560.1
15°	417.7	419.6	419.8	422.9	433.5	434.2	451.2	479.5	516.4	559.3
17.5°	424.8	426.3	424.1	426.0	434.9	436.1	449.5	474.7	514.3	562.5
20°	444.0	445.2	438.7	436.1	442.6	443.5	456.7	477.8	516.4	568.9
22.5°	484.8	485.5	469.7	458.9	459.4	459.8	471.4	490.5	524.8	580.7
25°	548.3	547.8	522.7	501.8	489.8	487.2	494.9	511.2	539.0	596.3
27.5°	622.6	619.0	593.9	562.7	536.6	532.7	531.1	538.0	559.1	616.9
30°	706.6	703.2	676.1	635.3	599.1	592.9	577.1	573.5	589.1	644.9
32.5°	798.6	796.5	764.1	714.7	666.3	659.1	632.5	622.9	635.1	687.4
35°	875.8	873.9	847.1	796.2	737.0	728.1	701.0	690.3	696.5	741.8
37.5°	945.6	944.6	921.6	881.6	820.4	809.6	779.2	775.6	774.4	813.5
40°	1010.3	1007.9	984.0	962.9	917.5	907.7	880.9	877.7	868.6	901.7
42.5°	1082.0	1075.8	1041.0	1031.2	1019.0	1010.8	994.7	995.2	975.1	1001.2
45°	1140.5	1136.9	1101.2	1095.4	1108.6	1105.3	1119.2	1122.8	1083.7	1105.5
47.5°	1203.3	1200.0	1169.8	1165.7	1201.4	1202.4	1251.5	1252.7	1189.7	1213.9
50°	1280.8	1276.0	1246.0	1251.0	1291.1	1294.7	1384.6	1376.4	1287.2	1323.9
52.5°	1331.8	1334.7	1328.2	1336.4	1391.1	1394.4	1515.5	1494.6	1383.9	1432.5
55°	1369.5	1375.2	1395.4	1414.1	1496.5	1499.9	1639.0	1607.1	1463.9	1533.2
57.5°	1417.9	1409.8	1447.4	1483.8	1596.8	1605.6	1759.1	1715.4	1534.9	1620.0
60°	1487.4	1481.7	1510.9	1564.9	1709.0	1723.1	1886.1	1813.0	1586.9	1688.8
62.5°	1628.4	1614.0	1618.6	1666.3	1850.4	1869.1	2029.5	1898.1	1612.8	1715.7
65°	1839.2	1814.5	1791.4	1824.5	2049.7	2068.1	2191.4	1965.0	1603.2	1663.7
67.5°	2104.6	2080.1	2051.8	2083.0	2343.1	2357.7	2391.1	2002.7	1527.7	1463.2
70°	2323.5	2314.3	2348.2	2476.4	2811.8	2812.3	2647.1	1971.5	1320.8	1037.4
72.5°	2294.4	2288.9	2467.1	2863.6	3402.6	3389.9	2889.5	1735.6	889.7	468.0
75°	1882.3	1918.0	2194.0	2856.7	3614.8	3613.1	2741.1	1103.3	368.0	194.0
77.5°	1009.4	1065.9	1424.4	2109.1	2821.9	2864.3	1927.1	386.0	158.0	124.2
80°	329.2	378.6	567.7	1073.9	1833.6	1825.7	826.0	151.5	108.1	88.0
82.5°	139.8	145.5	253.7	507.1	941.0	926.4	263.0	87.0	76.0	60.2
85°	54.7	61.1	112.0	234.5	407.6	398.7	94.9	43.2	48.7	39.3
87.5°	18.0	21.8	40.0	80.3	126.8	122.3	23.3	14.9	21.1	18.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
591.0	0°	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
592.7	2.5°	596.0	599.9	604.4	611.1	616.9	621.7	626.7	629.8	631.0	634.6
593.6	5°	600.3	608.7	620.0	631.0	641.8	648.3	654.0	656.9	659.6	661.5
596.3	7.5°	607.5	618.3	636.1	650.5	659.6	664.8	668.7	667.7	668.7	669.2
599.1	10°	613.8	628.9	650.0	663.6	670.6	670.8	669.9	666.5	664.8	665.1
603.5	12.5°	621.2	638.0	660.8	672.3	674.2	668.9	664.8	659.1	656.9	656.0
609.9	15°	631.3	650.5	672.5	676.8	672.0	665.3	658.4	649.0	644.2	640.4
621.0	17.5°	643.5	664.6	681.6	678.5	668.2	657.2	645.9	631.8	621.9	617.8
636.1	20°	660.5	679.5	688.6	674.9	659.3	642.5	623.4	606.1	597.0	592.9
655.2	22.5°	681.1	699.4	695.3	668.7	646.6	619.8	595.8	583.1	578.5	575.6
679.9	25°	705.8	721.4	700.1	659.6	625.8	589.6	571.1	567.0	564.9	562.7
710.2	27.5°	738.0	746.4	703.7	646.1	593.2	557.4	550.7	551.4	550.7	547.1
752.1	30°	780.4	778.7	707.0	624.3	555.7	528.4	528.9	532.0	532.5	530.1
810.6	32.5°	836.3	819.2	708.7	596.0	520.0	503.0	503.5	506.8	509.2	505.2
887.1	35°	903.9	866.5	706.1	560.5	492.5	478.8	475.2	476.2	476.9	473.0
979.9	37.5°	982.8	919.5	694.3	521.2	469.7	455.1	447.4	440.9	437.1	433.5
1084.9	40°	1069.3	977.2	672.7	482.9	444.3	429.9	418.4	406.1	393.2	388.4
1196.1	42.5°	1159.9	1036.7	646.6	446.2	415.0	403.3	391.0	373.3	353.9	344.0
1311.7	45°	1253.9	1097.6	621.0	410.0	385.0	380.0	365.9	344.5	323.4	311.0
1427.5	47.5°	1346.0	1155.1	583.3	373.5	357.0	362.5	351.5	331.8	308.3	288.7
1542.3	50°	1434.0	1209.1	521.7	336.6	334.2	357.2	346.7	318.4	291.5	266.4
1655.0	52.5°	1521.2	1252.7	442.8	303.0	322.0	355.8	340.5	309.3	276.4	250.1
1761.0	55°	1595.3	1275.3	366.8	274.3	304.2	343.6	333.0	298.5	255.1	227.0
1833.6	57.5°	1637.5	1257.0	303.5	246.0	279.8	323.4	320.3	275.5	229.7	208.1
1847.8	60°	1619.3	1183.2	251.7	221.3	256.5	301.6	298.3	252.7	210.3	189.9
1772.0	62.5°	1518.8	1042.5	210.7	199.7	235.4	279.3	276.2	235.2	195.4	175.7
1570.9	65°	1316.5	848.0	178.9	181.7	214.1	252.5	257.0	220.6	183.7	164.5
1215.3	67.5°	1004.1	614.2	153.9	166.1	193.2	226.1	239.3	210.0	173.8	155.6
703.2	70°	572.3	348.8	132.8	151.0	174.8	201.6	225.6	201.6	163.3	148.2
263.5	72.5°	217.0	160.2	114.8	135.9	157.0	181.0	210.5	188.4	151.0	139.8
136.2	75°	115.8	97.6	96.6	118.2	136.7	160.9	191.6	175.5	141.9	147.7
94.2	77.5°	78.9	69.0	80.8	101.2	114.4	138.6	171.4	155.8	123.0	122.5
65.2	80°	54.7	48.9	65.7	81.5	88.5	116.5	149.6	133.8	100.2	93.5
40.3	82.5°	32.8	31.9	49.1	60.9	62.6	89.9	124.0	112.2	82.0	71.4
24.0	85°	18.0	18.9	31.4	35.7	36.4	62.8	97.1	86.8	63.1	53.0
8.6	87.5°	5.0	6.5	11.5	14.1	17.5	32.6	57.8	51.5	31.6	22.1
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

<u>180°</u>
591.0
634.4
662.0
669.9
665.6
655.5
641.6
618.1
592.4
576.1
562.7
547.8
531.3
507.1
475.7
435.9
390.6
345.2
310.0
286.5
264.2
247.2
224.6
205.2
187.0
172.6
161.4
152.7
146.2
137.9
152.5
112.9
89.4
71.9
53.5
22.1
0.0

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