

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: P944913

Luminaire Tested: **GALN-SB1A-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
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-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4478 lumens
Efficiency: N/A
Efficacy: 144.9 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

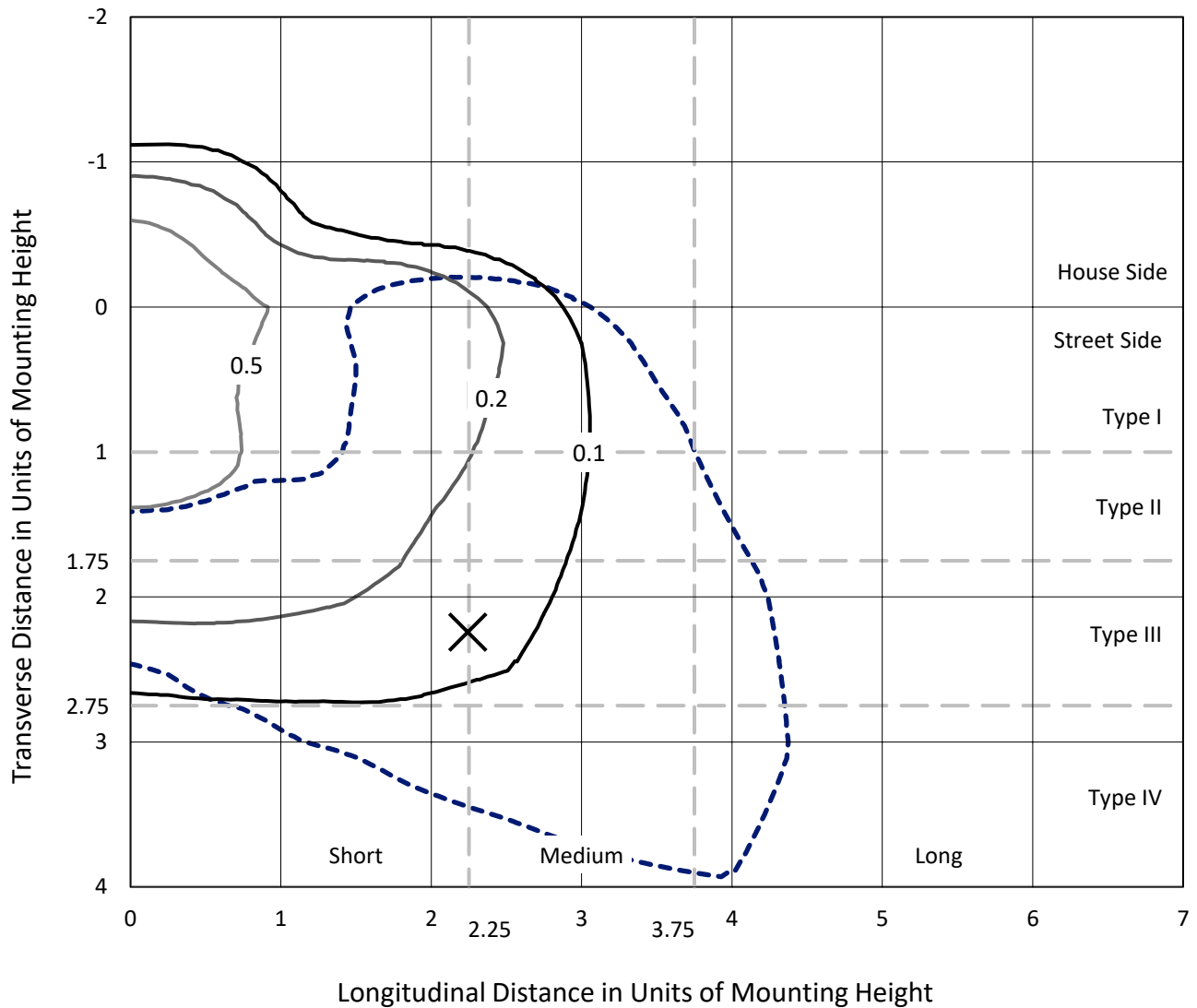
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

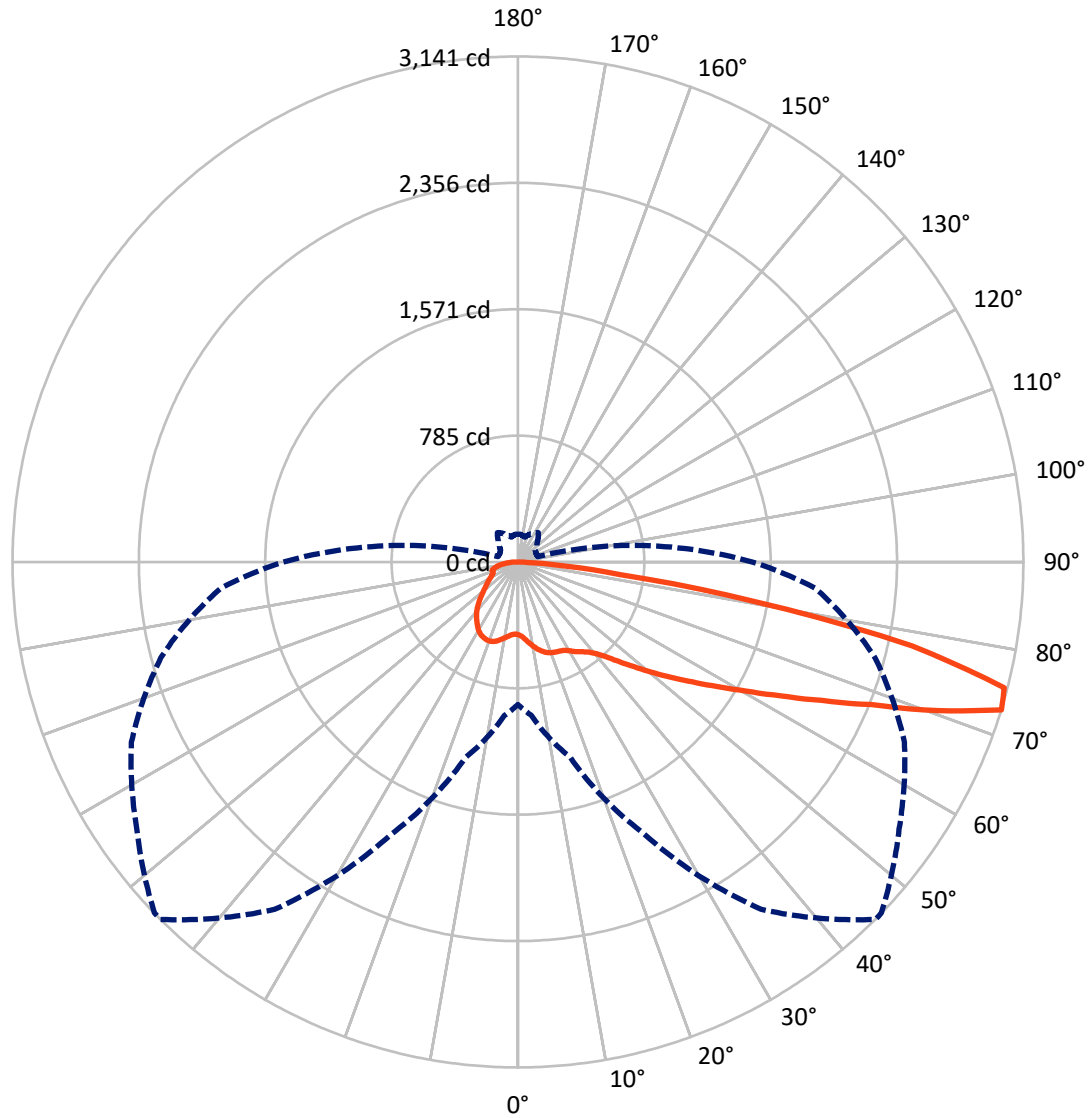
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1012.3	0.0	1012.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	3465.7	0.0	3465.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	4478.0	0.0	4478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	1.0
10°-20°	153.3	3.4
20°-30°	266.7	6.0
30°-40°	382.3	8.5
40°-50°	538.3	12.0
50°-60°	824.5	18.4
60°-70°	1194.4	26.7
70°-80°	953.8	21.3
80°-90°	118.8	2.7
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°	4478.0	100.0
0°-180°	4478.0	100.0

Coefficient of Utilization



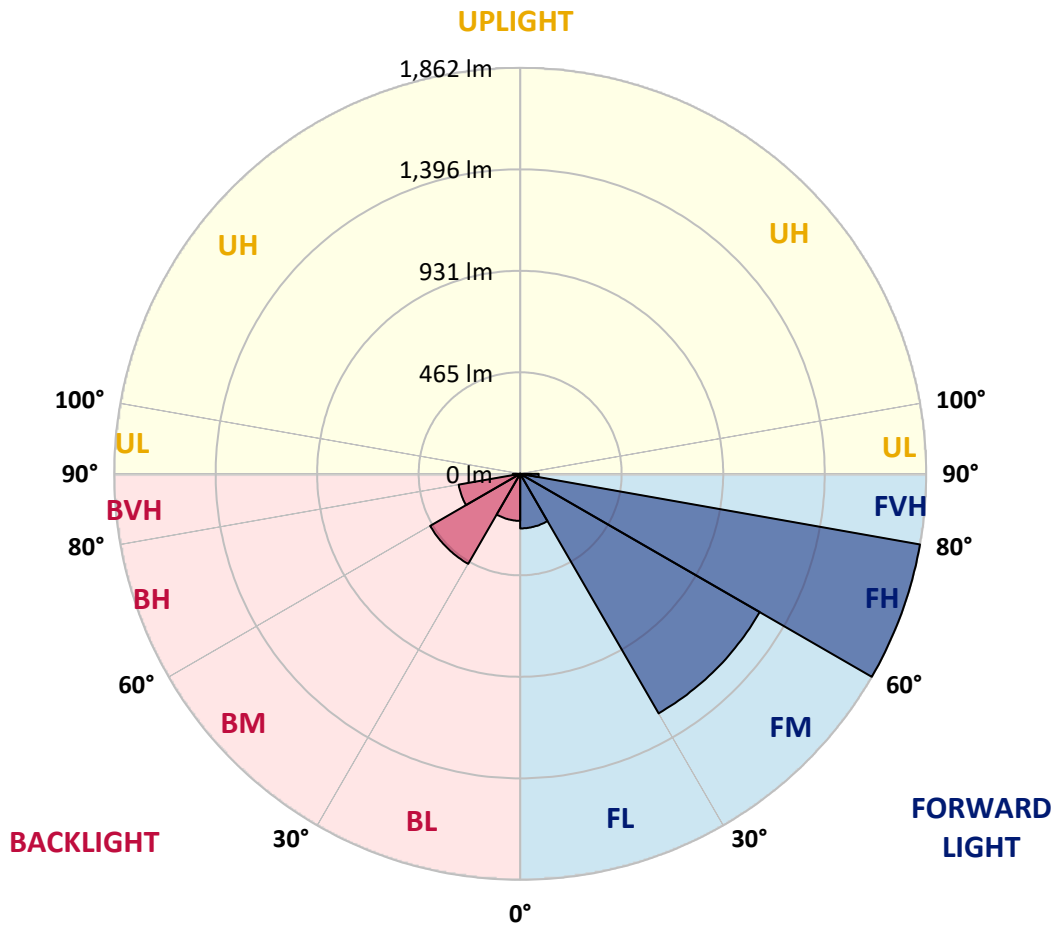
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	250.4	5.6			
FM (30°-60°)	1268.4	28.3			
FH (60°-80°)	1861.6	41.6			G2/5000
FVH (80°-90°)	85.2	1.9			G1/100
BL (0°-30°)	215.5	4.8	B1/500		
BM (30°-60°)	476.7	10.6	B1/1000		
BH (60°-80°)	286.6	6.4	B1/500		G1/500
BVH (80°-90°)	33.6	0.7			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°	45°	46°	55°	65°	75°
0°	451.7	451.7	451.7	451.7	451.7	451.7	451.7	451.7	451.7	451.7
2.5°	469.4	472.5	469.7	467.1	465.9	462.8	462.6	460.7	459.5	456.2
5°	502.2	506.2	501.5	496.3	491.6	484.1	483.1	477.7	471.6	464.5
7.5°	539.3	542.8	537.4	529.6	521.3	508.8	508.6	498.7	489.0	477.0
10°	571.6	576.3	569.0	558.4	548.0	533.8	532.2	520.9	508.6	493.0
12.5°	600.1	603.4	596.3	583.4	571.3	557.2	555.1	542.6	528.9	511.2
15°	622.8	627.0	617.6	603.7	590.9	577.0	575.1	563.8	550.1	531.5
17.5°	637.6	641.2	631.5	615.9	603.7	592.1	590.7	581.3	569.2	550.3
20°	643.3	647.1	636.9	621.1	609.8	600.8	600.1	593.3	585.0	567.8
22.5°	649.0	652.5	639.3	622.8	612.9	607.2	607.0	602.5	599.2	585.0
25°	671.8	672.8	655.1	631.3	617.1	612.2	611.9	611.7	613.1	602.0
27.5°	691.7	691.4	676.3	653.9	632.0	621.6	621.4	623.7	628.2	619.0
30°	720.7	718.1	700.1	676.8	656.7	640.7	639.3	637.2	640.7	633.4
32.5°	782.2	774.0	745.0	703.4	677.3	665.0	663.1	649.9	651.3	646.8
35°	870.5	859.6	820.9	753.9	702.7	685.3	684.3	667.6	664.8	660.7
37.5°	975.4	962.0	916.9	827.1	746.6	708.9	707.5	692.4	680.8	676.6
40°	1080.9	1063.9	1026.6	916.2	811.3	748.3	743.8	720.9	707.7	700.6
42.5°	1183.3	1169.1	1137.3	1016.2	891.0	805.8	795.9	756.8	746.9	740.2
45°	1273.8	1261.1	1237.8	1123.1	984.4	884.1	874.5	810.5	807.5	807.5
47.5°	1347.4	1344.6	1319.8	1232.1	1094.6	973.3	956.6	885.3	893.6	906.3
50°	1429.1	1421.3	1394.9	1339.4	1224.1	1075.5	1061.8	977.1	1008.0	1042.9
52.5°	1504.1	1508.3	1478.8	1451.2	1370.3	1189.4	1165.3	1085.4	1152.1	1209.9
55°	1581.2	1581.5	1573.2	1569.4	1523.7	1315.4	1288.9	1215.6	1321.7	1393.4
57.5°	1653.6	1654.1	1666.4	1699.6	1701.5	1460.7	1430.7	1375.5	1510.2	1583.3
60°	1718.3	1721.6	1755.1	1832.9	1857.9	1627.2	1598.9	1564.5	1705.1	1778.7
62.5°	1740.0	1752.0	1826.6	1937.2	2012.4	1831.5	1803.7	1783.1	1909.8	1978.2
65°	1703.2	1730.8	1874.9	2023.3	2171.4	2074.2	2046.6	2024.2	2122.6	2187.0
67.5°	1612.8	1648.4	1872.1	2113.6	2364.4	2366.3	2340.6	2288.0	2350.7	2375.5
70°	1374.8	1428.1	1707.2	2147.4	2585.9	2765.7	2740.9	2605.5	2578.4	2458.5
72.5°	885.8	957.5	1257.1	1869.7	2635.2	3141.4	3140.0	2892.1	2650.3	2297.2
75°	323.2	367.1	584.1	1173.6	2212.0	3122.3	3131.5	2843.0	2419.4	1774.4
77.5°	117.7	128.8	190.6	451.0	1360.4	2505.2	2524.3	2272.9	1722.0	890.5
80°	61.8	67.9	97.7	175.0	582.9	1487.8	1517.8	1350.7	809.4	268.2
82.5°	34.2	37.0	54.7	95.1	262.6	636.2	654.1	533.6	284.7	113.7
85°	18.4	19.6	25.7	51.9	128.3	220.6	225.5	159.5	113.5	66.8
87.5°	5.4	6.6	8.5	16.5	50.2	49.5	50.7	31.6	44.8	33.7
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
451.7	0°	451.7	451.7	451.7	451.7	451.7	451.7	451.7	451.7	451.7	451.7
455.3	2.5°	453.9	453.2	450.6	449.4	448.0	447.7	448.9	449.1	449.4	449.6
460.5	5°	458.1	455.8	453.4	452.0	452.5	452.7	455.0	456.7	457.9	458.8
470.1	7.5°	466.4	464.5	460.5	460.2	460.9	463.1	466.1	469.9	472.0	473.7
482.6	10°	478.6	475.1	470.4	471.1	472.5	475.6	481.9	485.0	488.5	491.6
498.0	12.5°	491.1	488.1	482.6	483.1	485.5	490.9	497.0	500.8	503.2	505.5
514.5	15°	507.4	502.0	496.1	496.1	500.3	506.2	509.1	512.1	513.5	516.1
532.2	17.5°	524.2	517.1	509.3	508.8	514.0	516.9	518.5	519.0	519.4	522.3
549.4	20°	540.9	533.1	522.0	521.1	522.3	521.8	521.6	521.1	521.8	525.3
567.1	22.5°	557.4	548.5	533.1	528.9	525.6	521.1	520.9	520.6	521.1	524.6
586.2	25°	576.8	565.9	545.4	532.7	521.6	515.4	516.1	516.4	516.9	519.7
606.0	27.5°	597.8	585.7	556.7	531.5	511.4	507.2	506.0	506.7	508.4	512.8
625.8	30°	618.8	604.6	567.1	526.8	498.7	492.8	489.0	490.7	495.9	500.3
643.1	32.5°	637.9	623.7	575.4	516.4	482.4	473.2	468.3	470.4	475.6	477.2
662.2	35°	660.3	644.2	578.9	499.9	464.7	450.6	444.0	440.9	443.5	441.8
684.6	37.5°	685.3	668.5	578.4	478.2	444.0	427.7	418.5	406.9	401.5	395.8
717.6	40°	722.3	698.3	572.8	452.0	418.2	403.4	386.9	367.3	355.0	343.9
770.9	42.5°	772.8	739.5	562.4	423.2	389.2	375.3	352.9	330.0	310.7	292.3
851.8	45°	848.1	793.6	549.4	392.5	357.9	344.2	319.9	294.2	272.2	248.6
966.7	47.5°	956.6	866.2	537.1	357.6	324.8	312.3	290.4	266.6	240.6	217.7
1132.8	50°	1105.6	970.5	525.8	323.7	292.3	282.8	265.4	241.1	214.9	196.5
1327.4	52.5°	1295.3	1112.3	521.1	290.9	261.8	258.3	244.4	221.7	197.0	181.4
1554.3	55°	1513.0	1281.9	521.1	259.5	235.2	236.4	226.7	205.7	184.2	170.3
1788.3	57.5°	1735.3	1453.6	511.7	230.5	212.5	217.5	211.4	193.0	173.6	159.2
2034.4	60°	1940.0	1597.5	473.4	204.1	192.5	200.3	196.3	180.5	156.9	144.8
2240.1	62.5°	2097.4	1678.6	399.8	183.1	176.0	184.9	182.8	163.9	153.8	148.9
2409.0	65°	2176.2	1665.4	305.7	164.4	162.1	176.0	171.5	170.8	162.8	157.1
2463.9	67.5°	2127.8	1551.7	221.7	150.7	154.0	167.7	184.9	187.8	172.9	161.8
2309.2	70°	1915.7	1346.0	165.1	137.8	143.9	168.0	210.9	196.5	169.6	156.6
1852.0	72.5°	1457.4	1003.7	128.1	124.1	130.7	169.1	222.5	192.5	160.2	173.1
1153.8	75°	833.4	551.1	102.9	107.3	114.2	158.1	216.6	182.1	152.9	159.0
457.2	77.5°	317.8	211.8	84.9	90.8	91.8	138.0	207.1	181.4	145.5	142.0
137.1	80°	110.2	82.8	70.3	72.2	71.0	122.7	198.6	157.8	119.1	106.6
56.6	82.5°	45.1	41.3	55.7	53.3	50.5	95.3	160.4	129.0	97.4	86.1
27.4	85°	19.6	26.2	36.8	32.3	29.3	66.1	128.6	109.2	82.3	71.0
9.0	87.5°	4.0	9.9	15.6	14.6	15.1	44.1	91.3	77.6	58.3	43.6
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°
451.7
450.6
459.3
474.2
490.9
506.5
517.1
523.2
526.8
527.0
523.5
517.3
505.3
483.1
447.0
399.4
344.6
290.6
245.8
215.1
195.3
180.2
168.9
156.9
143.0
147.2
155.2
159.9
154.5
171.7
159.0
129.5
103.1
85.2
70.8
34.2
0.0

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