

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: P945375

Luminaire Tested: **GALN-SB1B-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945375
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-SB1B-830-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5052 lumens
Efficiency: N/A
Efficacy: 126.9 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

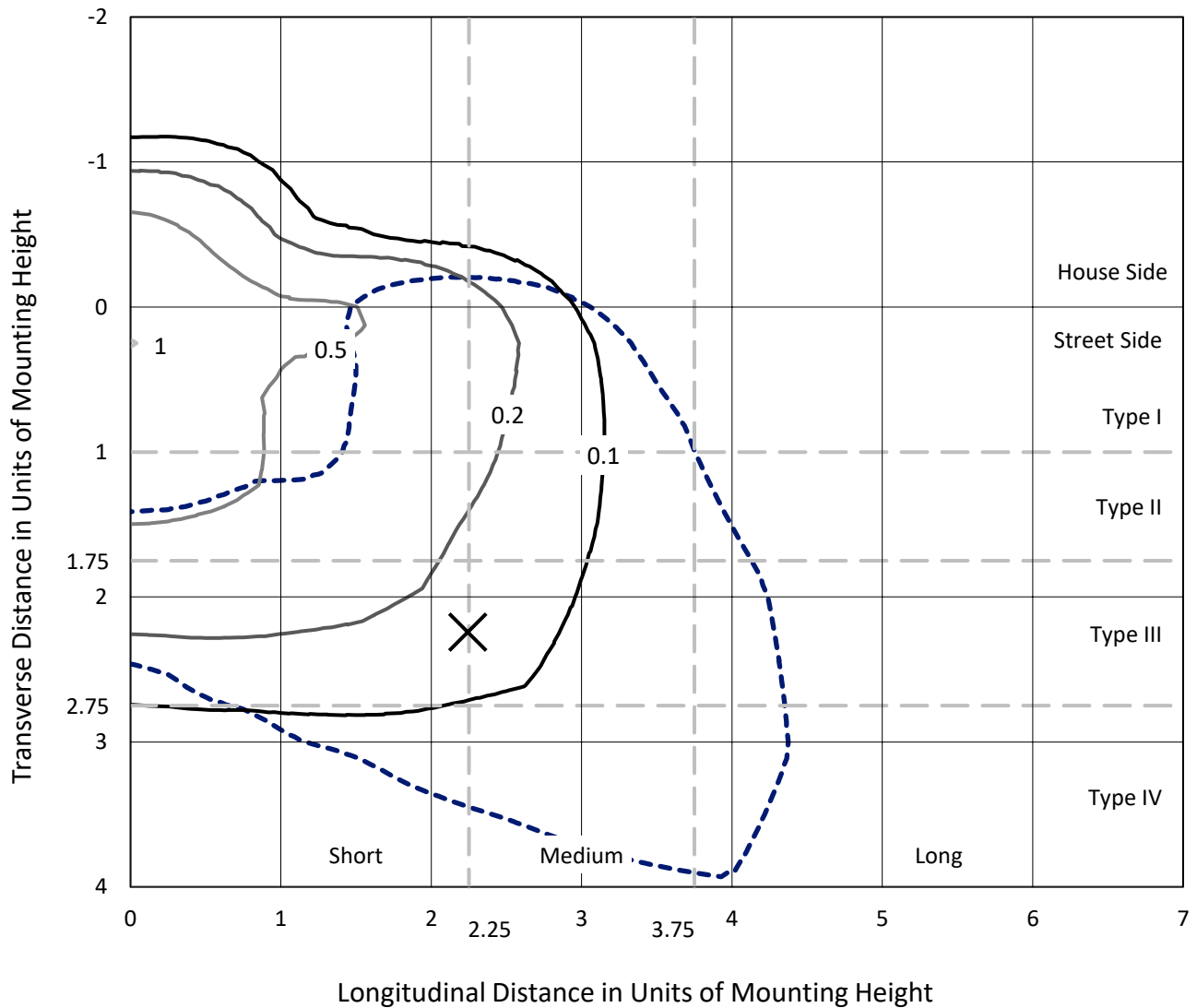
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

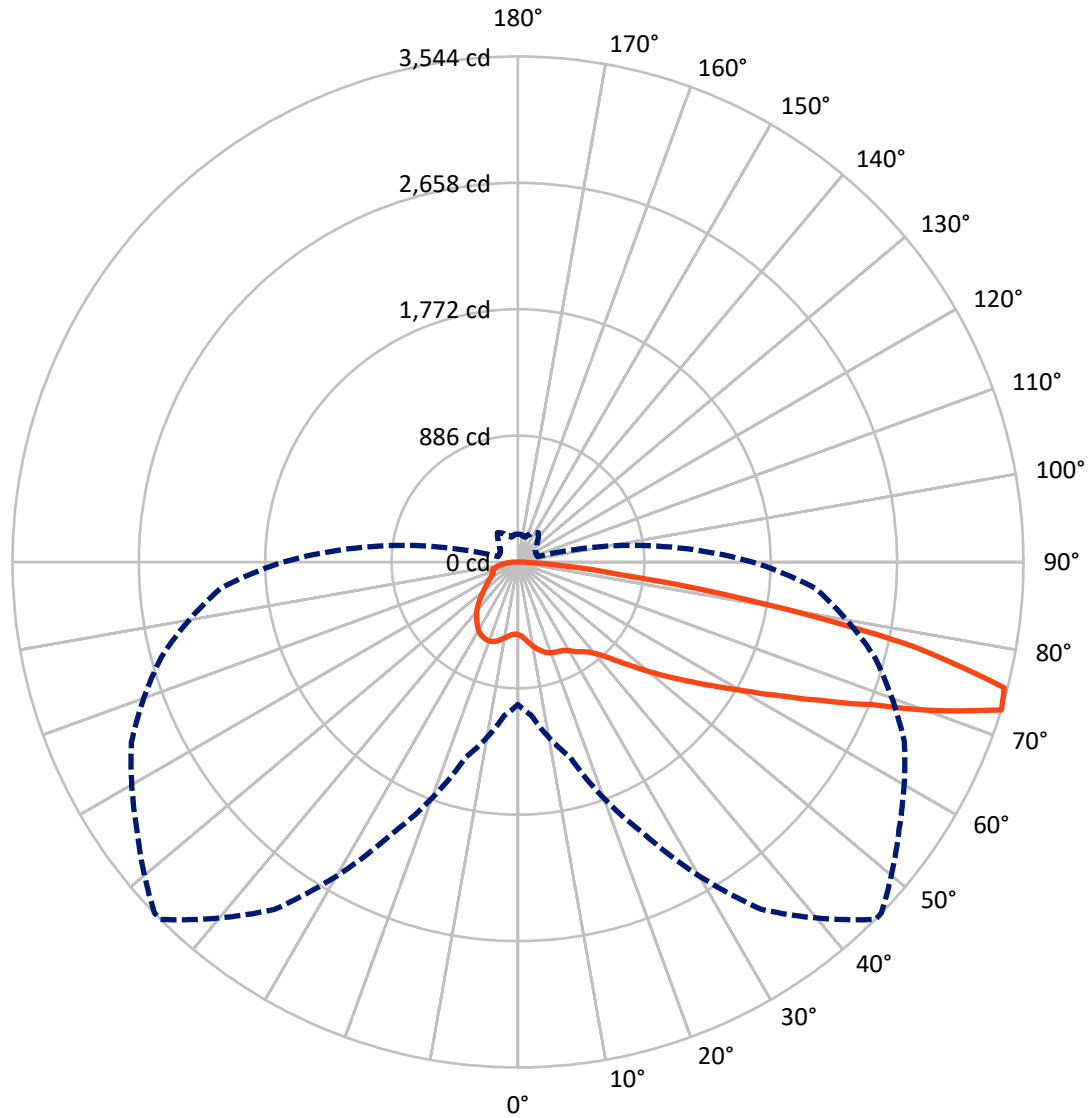
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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	1142.1	0.0	1142.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	3909.9	0.0	3909.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	5052.0	0.0	5052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	1.0
10°-20°	172.9	3.4
20°-30°	300.9	6.0
30°-40°	431.3	8.5
40°-50°	607.3	12.0
50°-60°	930.2	18.4
60°-70°	1347.5	26.7
70°-80°	1076.1	21.3
80°-90°	134.0	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°	5052.0	100.0
0°-180°	5052.0	100.0

Coefficient of Utilization



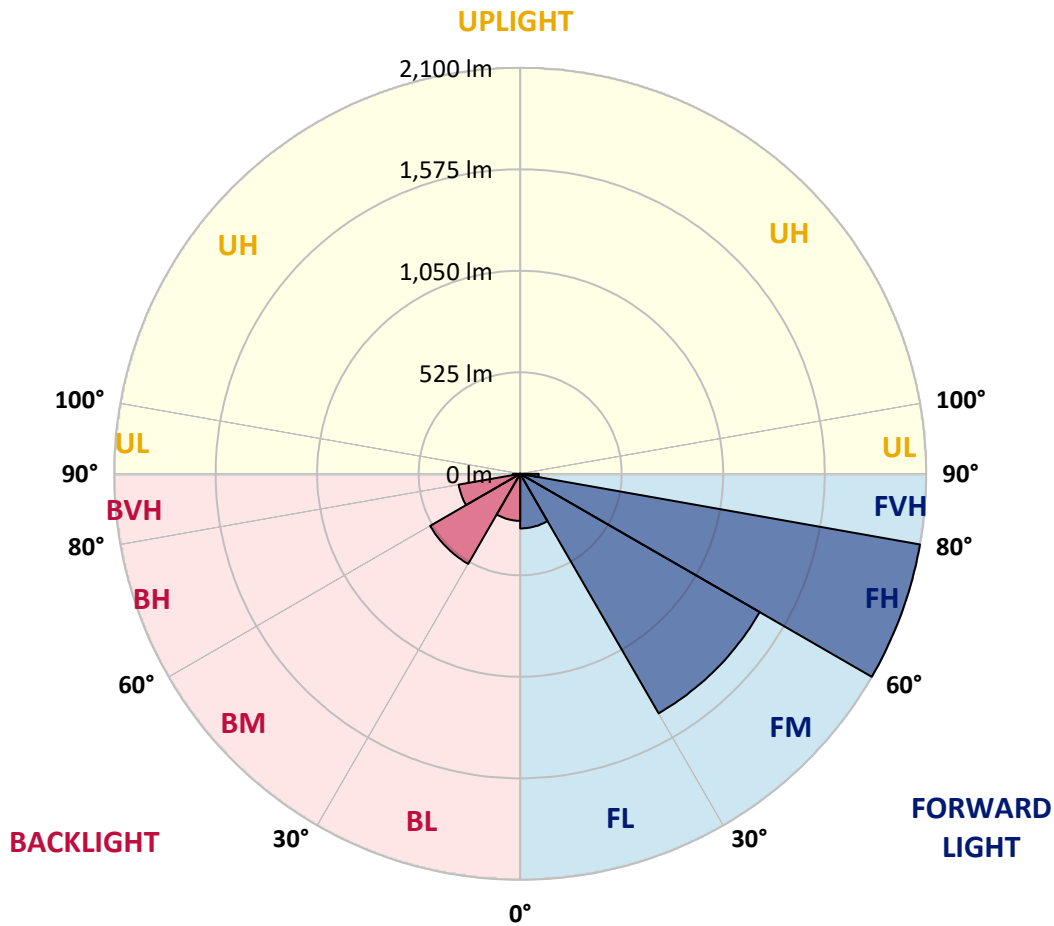
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	282.5	5.6			
FM (30°-60°)	1431.0	28.3			
FH (60°-80°)	2100.3	41.6			G2/5000
FVH (80°-90°)	96.1	1.9			G1/100
BL (0°-30°)	243.2	4.8	B1/500		
BM (30°-60°)	537.8	10.6	B1/1000		
BH (60°-80°)	323.3	6.4	B1/500		G1/500
BVH (80°-90°)	37.9	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°	509.6	509.6	509.6	509.6	509.6	509.6	509.6	509.6	509.6	509.6
2.5°	529.6	533.1	529.9	526.9	525.6	522.2	521.9	519.8	518.4	514.7
5°	566.6	571.1	565.8	559.9	554.6	546.1	545.0	538.9	532.0	524.0
7.5°	608.4	612.4	606.3	597.5	588.2	574.1	573.8	562.6	551.7	538.1
10°	644.8	650.2	641.9	629.9	618.2	602.3	600.4	587.6	573.8	556.2
12.5°	677.0	680.8	672.8	658.2	644.6	628.6	626.2	612.1	596.7	576.7
15°	702.6	707.4	696.7	681.0	666.7	651.0	648.8	636.1	620.6	599.6
17.5°	719.4	723.4	712.4	694.9	681.0	668.0	666.4	655.8	642.2	620.9
20°	725.8	730.0	718.6	700.7	688.0	677.8	677.0	669.3	660.0	640.6
22.5°	732.1	736.1	721.2	702.6	691.4	685.0	684.8	679.7	676.0	660.0
25°	758.0	759.0	739.1	712.2	696.2	690.6	690.4	690.1	691.7	679.2
27.5°	780.3	780.0	763.0	737.7	713.0	701.3	701.0	703.7	708.7	698.3
30°	813.0	810.1	789.9	763.5	740.9	722.8	721.2	718.8	722.8	714.6
32.5°	882.5	873.2	840.5	793.6	764.1	750.2	748.1	733.2	734.8	729.7
35°	982.0	969.8	926.1	850.6	792.8	773.1	772.1	753.2	750.0	745.4
37.5°	1100.5	1085.3	1034.5	933.1	842.3	799.7	798.1	781.1	768.1	763.3
40°	1219.4	1200.3	1158.2	1033.7	915.2	844.2	839.1	813.3	798.4	790.4
42.5°	1334.9	1319.0	1283.0	1146.5	1005.2	909.1	897.9	853.8	842.6	835.1
45°	1437.1	1422.8	1396.4	1267.1	1110.6	997.5	986.6	914.4	911.0	911.0
47.5°	1520.2	1517.0	1489.0	1390.0	1234.9	1098.1	1079.2	998.8	1008.1	1022.5
50°	1612.2	1603.5	1573.7	1511.1	1381.0	1213.3	1197.9	1102.3	1137.2	1176.6
52.5°	1696.9	1701.7	1668.4	1637.3	1546.0	1341.9	1314.7	1224.5	1299.8	1365.0
55°	1783.9	1784.2	1774.9	1770.6	1719.0	1484.0	1454.2	1371.4	1491.2	1572.1
57.5°	1865.6	1866.1	1880.0	1917.5	1919.6	1647.9	1614.1	1551.8	1703.8	1786.3
60°	1938.5	1942.3	1980.0	2067.9	2096.1	1835.8	1803.9	1765.0	1923.6	2006.7
62.5°	1963.0	1976.6	2060.7	2185.5	2270.4	2066.3	2034.9	2011.7	2154.6	2231.8
65°	1921.5	1952.6	2115.2	2282.6	2449.8	2340.1	2309.0	2283.7	2394.7	2467.3
67.5°	1819.6	1859.8	2112.0	2384.6	2667.5	2669.6	2640.6	2581.2	2652.0	2680.0
70°	1551.0	1611.2	1926.0	2422.6	2917.4	3120.2	3092.2	2939.5	2908.9	2773.7
72.5°	999.3	1080.2	1418.2	2109.4	2973.0	3544.1	3542.5	3262.8	2990.0	2591.6
75°	364.6	414.1	659.0	1324.0	2495.5	3522.6	3532.9	3207.5	2729.5	2001.9
77.5°	132.8	145.3	215.0	508.9	1534.8	2826.4	2847.9	2564.2	1942.8	1004.7
80°	69.7	76.6	110.2	197.5	657.6	1678.5	1712.3	1523.9	913.1	302.6
82.5°	38.6	41.8	61.7	107.3	296.2	717.8	738.0	602.0	321.2	128.3
85°	20.8	22.1	29.0	58.5	144.8	248.8	254.4	179.9	128.0	75.3
87.5°	6.1	7.5	9.6	18.6	56.7	55.9	57.2	35.7	50.6	38.1
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°
509.6	0°	509.6	509.6	509.6	509.6	509.6	509.6	509.6	509.6	509.6	509.6
513.6	2.5°	512.0	511.2	508.3	507.0	505.4	505.1	506.5	506.7	507.0	507.3
519.5	5°	516.8	514.2	511.5	509.9	510.4	510.7	513.4	515.2	516.6	517.6
530.4	7.5°	526.1	524.0	519.5	519.2	520.0	522.4	525.9	530.1	532.5	534.4
544.5	10°	540.0	536.0	530.7	531.5	533.1	536.5	543.7	547.2	551.2	554.6
561.8	12.5°	554.1	550.6	544.5	545.0	547.7	553.8	560.7	565.0	567.7	570.3
580.4	15°	572.5	566.3	559.7	559.7	564.5	571.1	574.3	577.8	579.4	582.3
600.4	17.5°	591.4	583.4	574.6	574.1	579.9	583.1	585.0	585.5	586.0	589.2
619.8	20°	610.2	601.5	589.0	587.9	589.2	588.7	588.4	587.9	588.7	592.7
639.8	22.5°	628.9	618.8	601.5	596.7	592.9	587.9	587.6	587.4	587.9	591.9
661.3	25°	650.7	638.5	615.3	600.9	588.4	581.5	582.3	582.6	583.1	586.3
683.7	27.5°	674.4	660.8	628.1	599.6	577.0	572.2	570.9	571.7	573.5	578.6
706.1	30°	698.1	682.1	639.8	594.3	562.6	556.0	551.7	553.6	559.4	564.5
725.5	32.5°	719.6	703.7	649.1	582.6	544.2	533.9	528.3	530.7	536.5	538.4
747.0	35°	744.9	726.8	653.1	563.9	524.3	508.3	500.9	497.4	500.3	498.5
772.3	37.5°	773.1	754.2	652.6	539.5	500.9	482.5	472.1	459.1	453.0	446.6
809.6	40°	814.9	787.8	646.2	509.9	471.9	455.1	436.5	414.4	400.5	388.0
869.7	42.5°	871.9	834.3	634.5	477.4	439.1	423.4	398.1	372.3	350.5	329.7
961.0	45°	956.8	895.3	619.8	442.8	403.7	388.3	360.9	331.9	307.1	280.5
1090.6	47.5°	1079.2	977.2	606.0	403.5	366.5	352.4	327.6	300.7	271.5	245.6
1278.0	50°	1247.4	1094.9	593.2	365.1	329.7	319.1	299.4	272.0	242.4	221.7
1497.5	52.5°	1461.3	1254.8	587.9	328.1	295.4	291.4	275.7	250.2	222.2	204.7
1753.6	55°	1707.0	1446.2	587.9	292.7	265.3	266.7	255.8	232.1	207.9	192.1
2017.6	57.5°	1957.7	1639.9	577.2	260.0	239.8	245.4	238.5	217.7	195.9	179.6
2295.1	60°	2188.7	1802.3	534.1	230.2	217.2	225.9	221.4	203.6	177.0	163.4
2527.2	62.5°	2366.2	1893.8	451.1	206.5	198.5	208.6	206.3	185.0	173.5	167.9
2717.8	65°	2455.1	1878.9	344.9	185.5	182.8	198.5	193.5	192.7	183.6	177.2
2779.8	67.5°	2400.5	1750.6	250.2	170.1	173.8	189.2	208.6	211.8	195.1	182.6
2605.2	70°	2161.3	1518.6	186.3	155.4	162.3	189.5	237.9	221.7	191.4	176.7
2089.4	72.5°	1644.2	1132.4	144.5	140.0	147.4	190.8	251.0	217.2	180.7	195.3
1301.7	75°	940.3	621.7	116.0	121.1	128.8	178.3	244.3	205.5	172.5	179.4
515.8	77.5°	358.5	239.0	95.8	102.5	103.5	155.7	233.7	204.7	164.2	160.2
154.6	80°	124.3	93.4	79.3	81.4	80.1	138.4	224.1	178.0	134.4	120.3
63.9	82.5°	50.8	46.6	62.8	60.1	57.0	107.5	181.0	145.6	109.9	97.1
30.9	85°	22.1	29.5	41.5	36.5	33.0	74.5	145.0	123.2	92.9	80.1
10.1	87.5°	4.5	11.2	17.6	16.5	17.0	49.8	103.0	87.6	65.7	49.2
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°
509.6
508.3
518.2
534.9
553.8
571.4
583.4
590.3
594.3
594.5
590.6
583.6
570.1
545.0
504.3
450.6
388.8
327.9
277.3
242.7
220.4
203.3
190.6
177.0
161.3
166.1
175.1
180.4
174.3
193.7
179.4
146.1
116.3
96.1
79.8
38.6
0.0

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