

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: P945520

Luminaire Tested: **GALN-SB1B-940-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-940-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4190 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

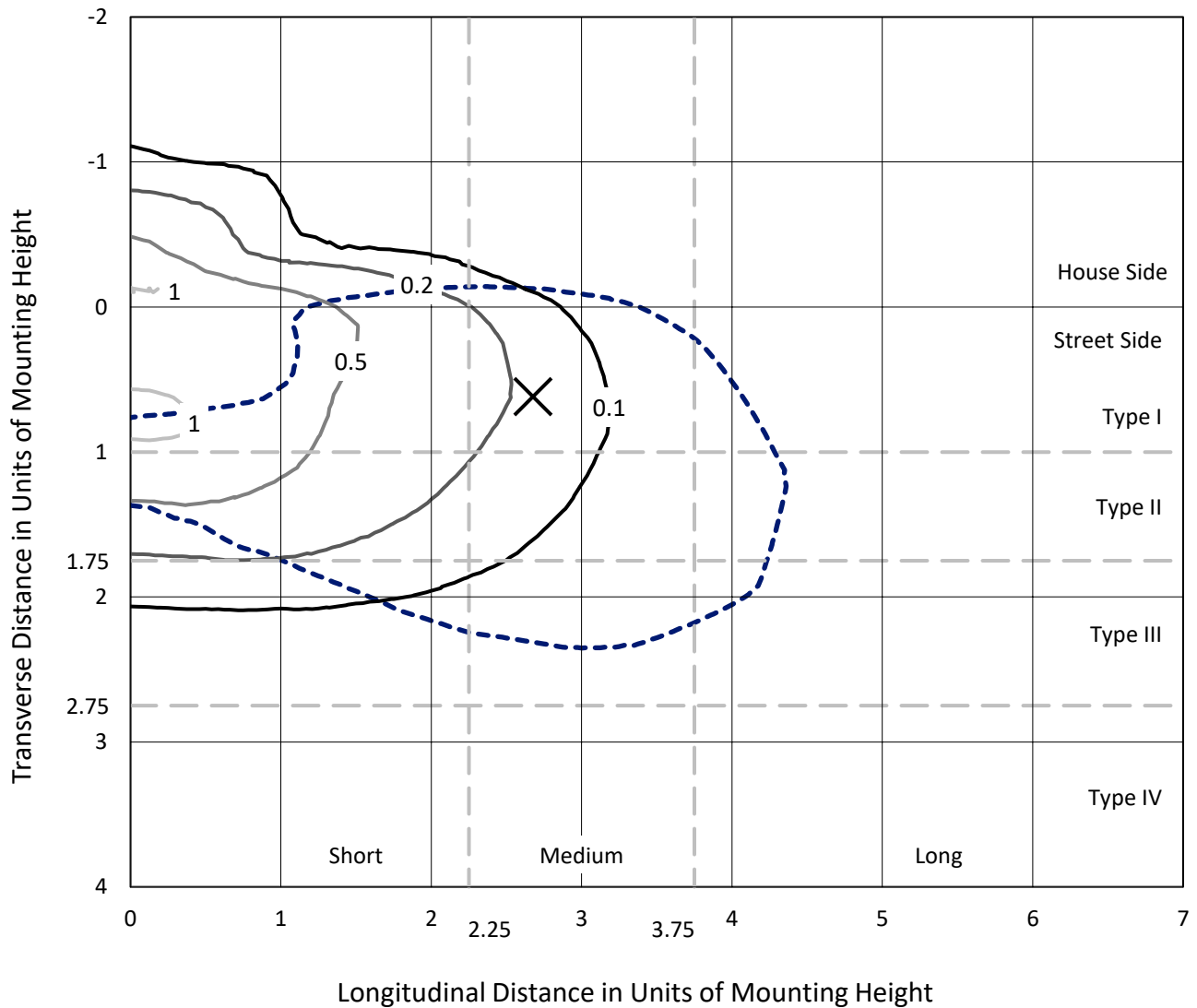
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

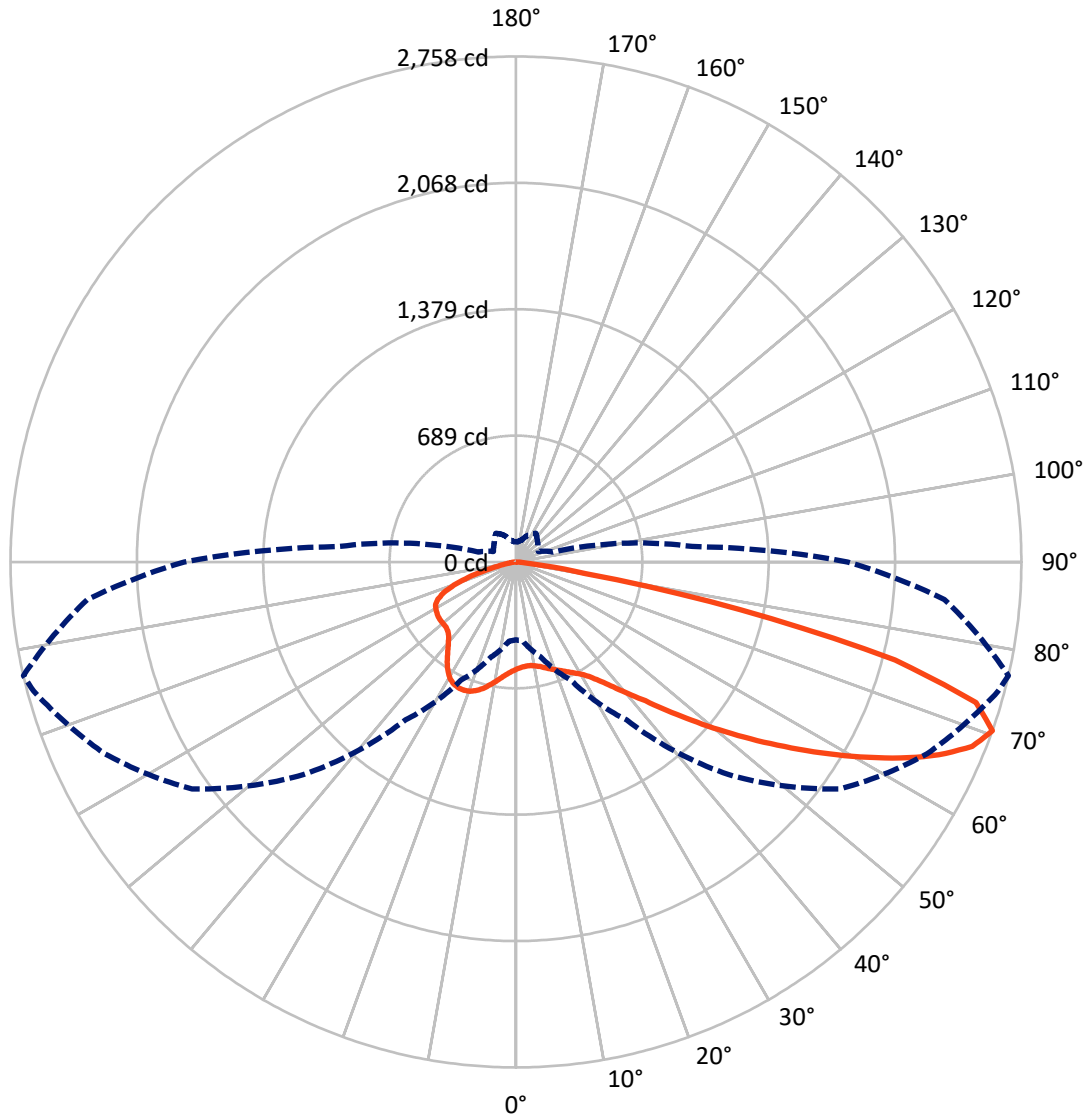
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	917.5	0.0	917.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3272.5	0.0	3272.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	4190.0	0.0	4190.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	1.3
10°-20°	160.9	3.8
20°-30°	275.2	6.6
30°-40°	442.5	10.6
40°-50°	690.8	16.5
50°-60°	922.8	22.0
60°-70°	983.6	23.5
70°-80°	605.5	14.5
80°-90°	53.1	1.3
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°	4190.0	100.0
0°-180°	4190.0	100.0

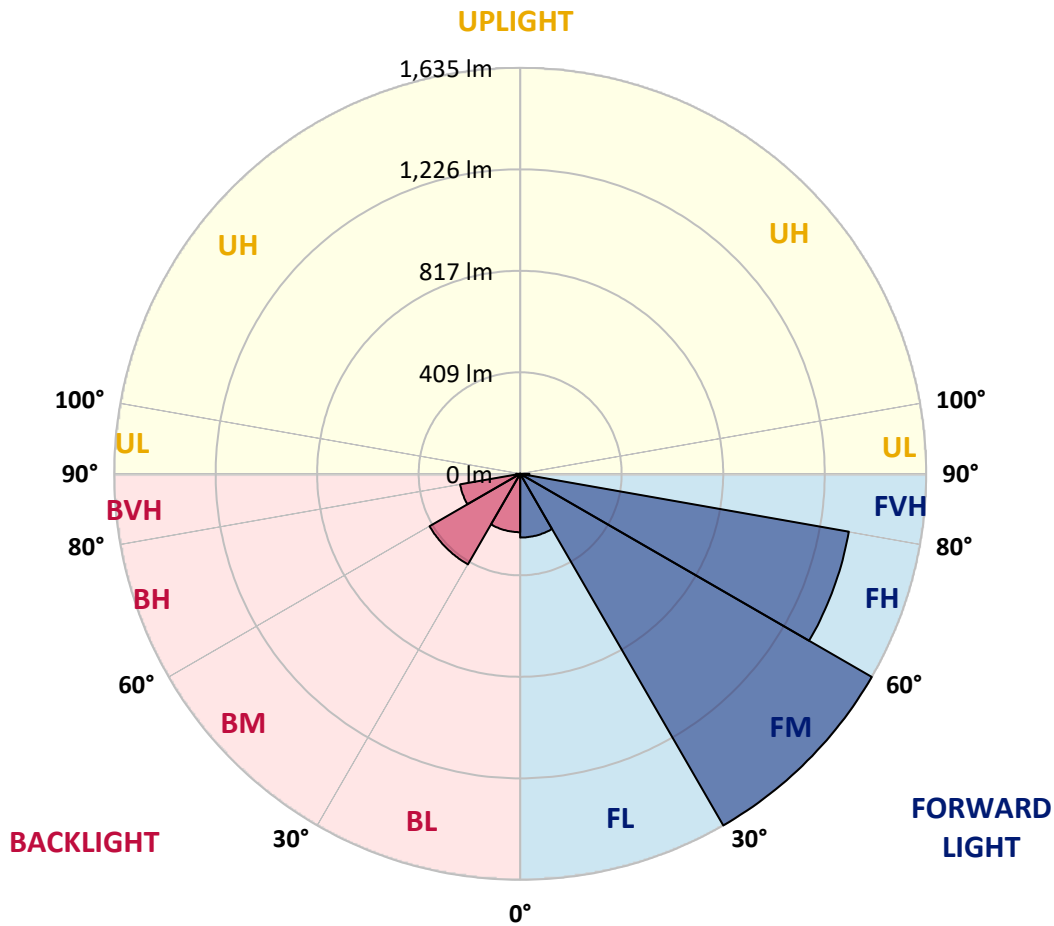


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	256.7	6.1			
FM (30°-60°)	1634.8	39.0			
FH (60°-80°)	1343.8	32.1			G1/1800
FVH (80°-90°)	37.1	0.9			G1/100
BL (0°-30°)	235.1	5.6	B1/500		
BM (30°-60°)	421.3	10.1	B1/1000		
BH (60°-80°)	245.2	5.9	B1/500		G1/500
BVH (80°-90°)	16.0	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	584.5	584.5	584.5	584.5	584.5	584.5	584.5	584.5	584.5	584.5
2.5°	538.8	538.6	541.4	542.3	547.4	551.1	557.9	565.2	574.7	575.7
5°	507.7	507.7	510.9	514.4	521.0	528.3	538.8	551.5	567.8	570.4
7.5°	481.3	483.0	485.8	492.5	500.2	510.7	526.8	544.8	566.3	570.4
10°	460.1	462.0	465.4	470.8	482.4	497.0	518.0	541.2	570.0	576.4
12.5°	453.4	455.4	457.3	461.4	472.1	489.3	514.4	542.9	578.7	585.2
15°	468.9	471.2	469.7	468.7	474.2	489.9	516.1	549.1	589.7	598.9
17.5°	504.5	505.4	501.9	491.8	491.0	499.4	524.2	557.7	603.4	613.5
20°	562.0	560.5	553.4	533.5	522.1	520.4	538.2	570.6	617.6	628.3
22.5°	640.1	638.4	624.2	592.7	567.4	550.6	558.4	587.3	633.5	645.5
25°	737.5	735.2	714.4	671.5	632.2	590.8	585.8	609.4	653.0	664.2
27.5°	851.3	849.3	826.8	770.2	713.5	645.7	620.0	635.4	673.4	686.0
30°	973.6	979.2	939.3	878.3	806.6	717.4	665.9	667.4	699.8	711.2
32.5°	1117.4	1127.0	1079.0	1001.7	903.9	795.3	723.8	712.0	738.2	747.6
35°	1259.9	1270.8	1230.9	1145.5	1032.8	887.1	784.3	763.3	789.3	799.6
37.5°	1383.0	1397.6	1377.0	1302.8	1170.8	997.8	863.3	823.6	852.1	865.0
40°	1480.2	1502.6	1501.1	1454.7	1333.5	1132.2	963.5	898.1	930.2	944.2
42.5°	1559.2	1578.5	1595.3	1592.9	1503.2	1284.8	1081.3	994.8	1019.3	1035.4
45°	1613.7	1634.3	1670.4	1709.2	1666.5	1448.1	1216.3	1109.6	1132.0	1156.2
47.5°	1662.4	1685.8	1732.6	1794.2	1805.1	1612.0	1364.1	1243.3	1263.7	1288.8
50°	1666.7	1686.9	1759.4	1846.8	1903.6	1769.5	1522.9	1393.3	1412.4	1439.3
52.5°	1563.1	1594.8	1721.4	1845.3	1948.9	1901.3	1680.7	1549.3	1570.8	1603.0
55°	1213.3	1259.9	1610.1	1787.7	1932.8	1986.5	1830.7	1715.2	1742.7	1776.4
57.5°	1045.1	1065.4	1278.1	1683.0	1859.4	2008.6	1957.3	1882.8	1927.0	1963.9
60°	939.3	956.2	1082.0	1520.2	1762.9	1973.6	2055.1	2039.0	2115.4	2159.4
62.5°	826.0	842.1	956.4	1269.3	1639.3	1915.4	2116.9	2183.2	2308.6	2356.6
65°	713.5	727.2	836.9	1066.5	1482.2	1857.3	2148.9	2307.9	2487.3	2537.1
67.5°	588.2	599.6	703.2	899.8	1291.2	1777.7	2164.8	2406.0	2642.9	2685.6
70°	424.5	433.3	540.3	711.6	1051.5	1640.8	2158.3	2475.5	2723.6	2757.7
72.5°	200.6	208.6	334.3	462.0	742.7	1374.2	2028.1	2420.4	2641.6	2624.7
75°	107.1	113.9	192.1	253.4	392.3	942.1	1659.6	2085.0	2218.2	2135.8
77.5°	72.5	77.9	118.9	152.1	179.2	447.2	1066.7	1443.5	1388.8	1252.8
80°	57.5	63.1	97.4	103.0	86.7	161.6	440.8	668.2	480.0	383.9
82.5°	44.2	50.4	82.0	74.7	47.2	66.3	128.3	211.4	123.0	93.6
85°	27.0	33.7	64.4	47.6	26.6	30.3	43.6	58.8	37.6	31.3
87.5°	13.7	19.3	32.6	17.4	12.0	7.1	11.6	11.6	9.9	8.6
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°
584.5	0°	584.5	584.5	584.5	584.5	584.5	584.5	584.5	584.5	584.5	584.5
581.5	2.5°	586.7	591.0	598.3	605.1	610.5	615.7	620.8	623.6	624.5	627.9
584.8	5°	593.6	601.5	615.7	629.0	637.3	642.5	646.1	648.3	648.7	649.8
593.6	7.5°	606.2	618.9	638.6	651.9	658.1	657.7	656.2	650.9	648.7	646.8
606.4	10°	624.0	640.8	665.0	674.2	670.4	660.1	646.8	631.1	623.8	616.7
624.0	12.5°	646.1	667.4	691.2	690.8	671.7	645.3	614.4	590.3	575.1	564.2
645.7	15°	673.0	697.4	715.7	701.1	659.2	611.8	566.5	535.2	521.5	509.4
667.6	17.5°	700.6	726.8	735.2	697.8	627.9	562.2	510.9	486.3	472.7	466.3
691.2	20°	727.7	753.6	746.8	679.4	580.3	506.0	460.3	446.8	444.0	445.5
714.2	22.5°	756.2	779.4	749.1	643.8	519.5	448.5	423.4	423.8	430.0	434.5
738.2	25°	785.4	801.1	742.9	592.3	454.3	406.2	400.0	406.9	419.1	427.9
765.2	27.5°	813.5	820.4	729.4	528.5	398.3	376.0	377.0	391.2	409.7	421.9
798.1	30°	845.3	837.5	703.4	456.9	359.4	350.0	359.0	375.5	394.0	404.9
839.5	32.5°	881.1	852.4	662.2	390.6	332.0	329.2	344.0	354.7	362.9	366.1
894.4	35°	925.7	873.2	609.4	344.0	307.3	313.9	328.1	322.7	319.5	317.8
968.2	37.5°	983.7	901.3	547.6	313.7	287.3	303.0	308.8	292.1	279.4	273.2
1057.7	40°	1053.4	942.5	488.2	290.3	274.7	293.6	283.5	263.3	247.2	238.4
1158.4	42.5°	1130.9	985.6	438.2	272.7	267.6	285.8	264.8	240.8	214.8	212.0
1278.3	45°	1212.2	1030.0	404.1	259.2	264.2	279.2	254.1	215.2	196.8	208.2
1398.7	47.5°	1293.5	1070.8	383.5	249.1	262.4	271.7	244.6	201.1	188.0	204.5
1527.7	50°	1384.1	1107.3	374.2	241.8	260.5	268.7	230.5	197.4	178.8	189.7
1661.1	52.5°	1474.0	1135.6	367.4	234.5	257.7	266.3	223.6	193.1	167.6	168.2
1795.5	55°	1563.7	1154.1	359.9	224.9	251.5	261.2	223.0	188.4	159.2	156.2
1937.5	57.5°	1659.4	1164.6	350.6	214.2	240.8	248.1	222.3	184.8	156.7	151.7
2082.8	60°	1756.8	1180.0	338.6	201.1	226.4	232.4	220.8	183.5	155.1	146.8
2219.7	62.5°	1844.2	1185.4	324.2	188.6	207.9	217.0	217.6	182.4	151.1	136.7
2333.5	65°	1901.5	1162.2	299.1	174.5	188.0	201.1	211.4	178.8	143.8	129.4
2389.7	67.5°	1899.1	1096.1	259.9	156.2	168.7	183.5	202.4	172.5	135.0	120.4
2347.2	70°	1810.7	965.7	210.1	135.0	147.4	164.6	190.8	163.3	124.5	110.5
2087.1	72.5°	1553.0	755.8	152.6	110.1	122.7	145.1	175.7	152.1	113.7	101.7
1542.5	75°	1109.4	478.3	103.4	84.5	95.5	123.0	157.1	139.1	103.9	102.1
772.5	77.5°	566.7	228.5	68.5	61.8	66.5	97.0	132.0	124.2	105.4	84.3
219.7	80°	184.3	84.3	43.1	42.1	44.2	64.6	102.1	101.9	79.8	57.3
53.2	82.5°	58.8	36.3	28.1	27.0	26.0	40.6	71.2	80.7	53.9	36.3
19.1	85°	23.4	21.7	16.5	15.2	10.9	19.1	37.3	53.6	40.1	26.2
4.9	87.5°	8.6	8.6	4.5	3.2	2.4	6.4	10.1	16.1	23.0	13.5
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°
584.5
629.8
651.5
647.2
614.6
561.6
508.1
468.2
444.8
435.6
430.3
424.9
407.5
367.8
319.5
274.7
239.1
214.8
214.2
212.2
197.9
172.7
158.4
152.4
147.4
136.7
129.4
121.0
111.8
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50.6
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26.8
13.3
0.0

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