

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: P939515

Luminaire Tested: **GALN-SB2A-927-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2A-927-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5410 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

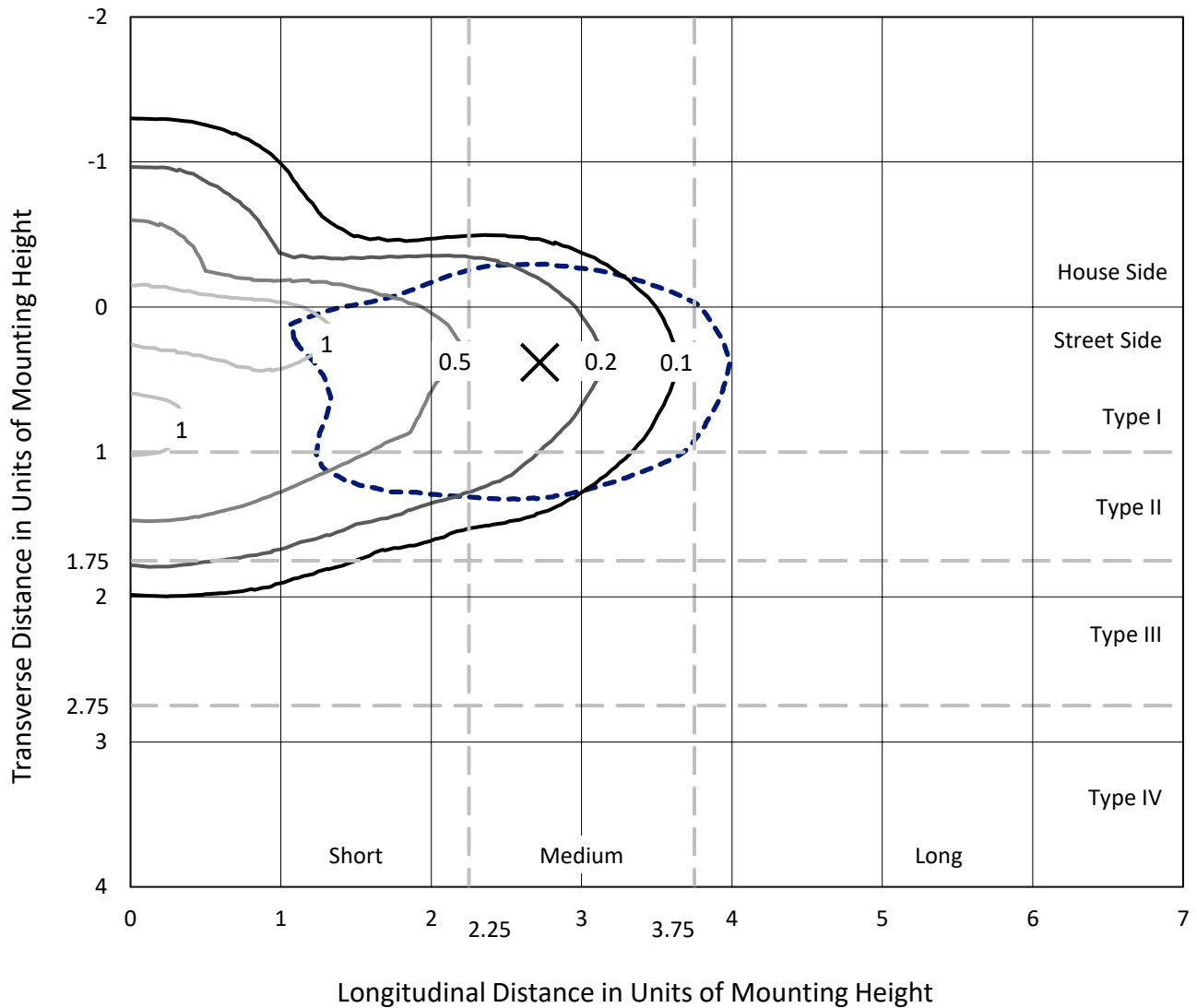
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

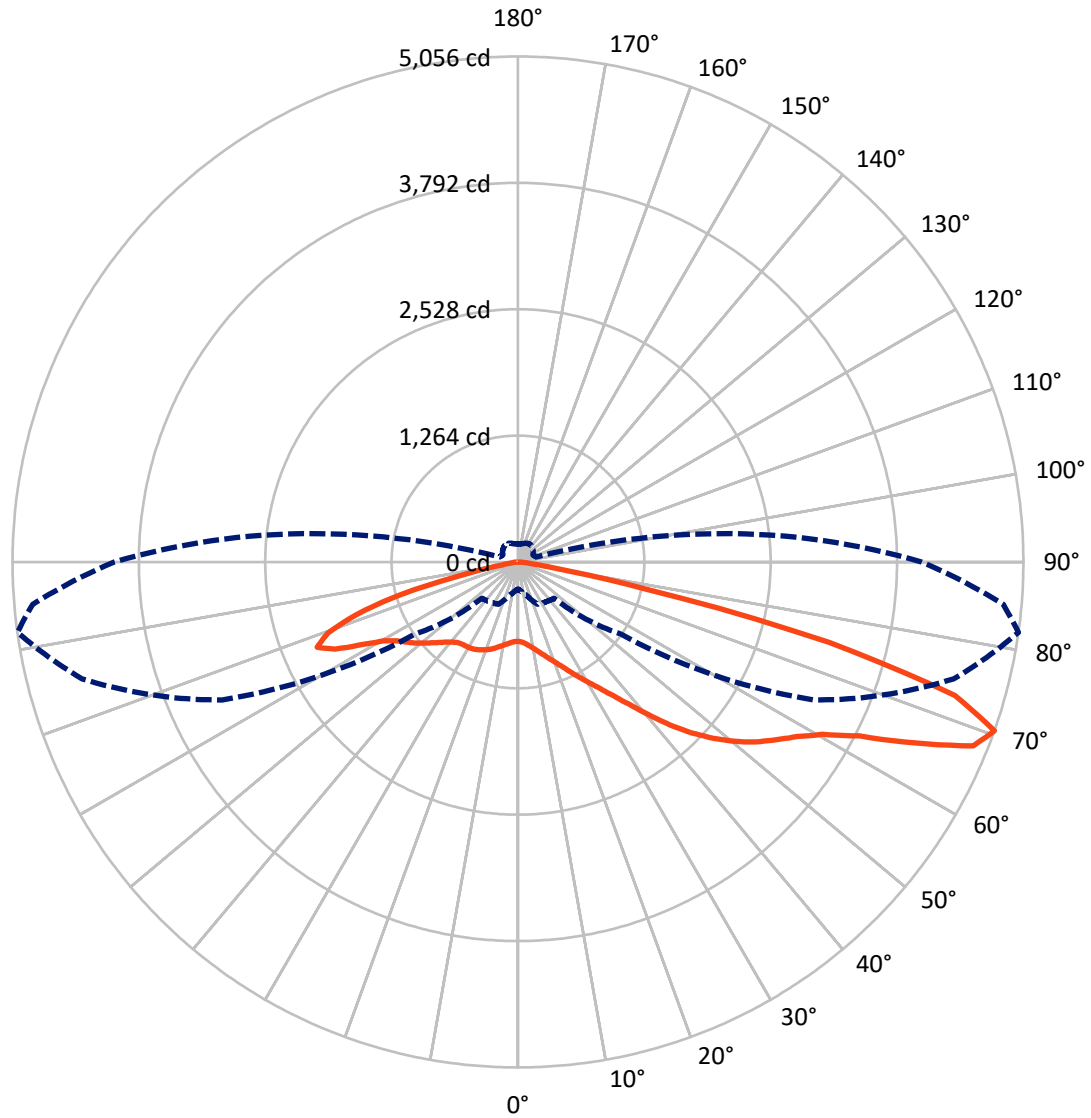
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1333.7	0.0	1333.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	4076.3	0.0	4076.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	5410.0	0.0	5410.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	1.4
10°-20°	215.2	4.0
20°-30°	359.9	6.7
30°-40°	562.3	10.4
40°-50°	895.6	16.6
50°-60°	1246.3	23.0
60°-70°	1303.7	24.1
70°-80°	681.4	12.6
80°-90°	70.8	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°	5410.0	100.0
0°-180°	5410.0	100.0

Coefficient of Utilization



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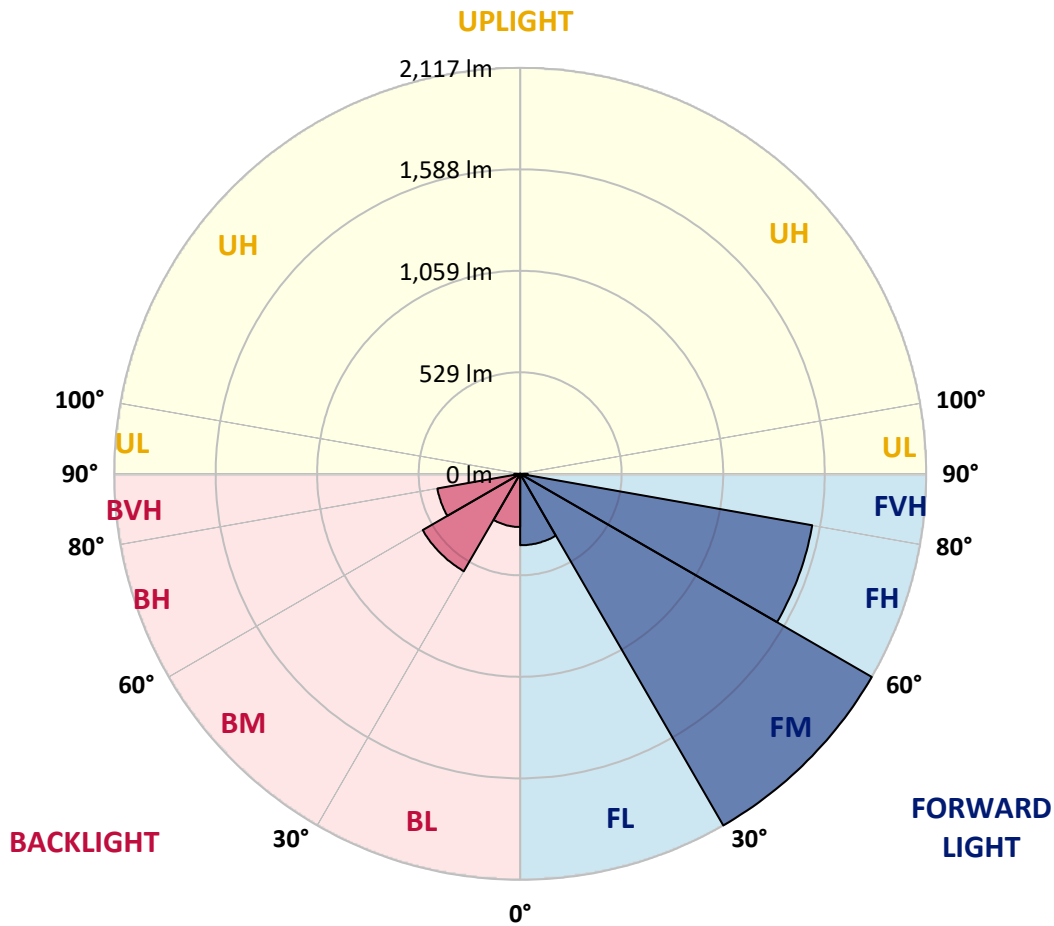
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	372.5	6.9			
FM (30°-60°)	2117.4	39.1			
FH (60°-80°)	1546.7	28.6			G1/1800
FVH (80°-90°)	39.6	0.7			G1/100
BL (0°-30°)	277.5	5.1	B1/500		
BM (30°-60°)	586.8	10.8	B1/1000		
BH (60°-80°)	438.3	8.1	B1/500		G1/500
BVH (80°-90°)	31.1	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2
2.5°	812.1	816.7	815.3	813.8	813.8	811.8	811.5	808.7	806.4	802.6
5°	822.5	827.3	826.8	827.9	831.6	832.5	833.4	831.6	827.0	822.5
7.5°	813.3	818.7	820.4	827.3	838.8	849.2	856.9	860.1	855.8	849.2
10°	782.3	788.3	794.3	810.7	831.1	855.5	876.1	888.5	887.6	881.3
12.5°	719.4	725.7	738.6	770.5	807.8	850.9	889.3	915.2	924.1	919.5
15°	669.2	674.6	684.4	717.1	765.6	831.1	894.2	944.5	967.1	964.6
17.5°	667.7	670.0	676.0	691.6	728.9	800.1	889.1	973.2	1016.5	1016.2
20°	693.0	693.8	697.3	700.5	721.7	776.5	875.8	997.0	1071.9	1071.9
22.5°	728.0	727.4	730.9	728.0	738.3	774.5	867.5	1017.9	1133.6	1138.2
25°	780.5	777.7	776.8	770.2	772.2	793.2	876.7	1041.8	1206.8	1216.3
27.5°	850.6	846.0	842.8	827.6	822.5	831.6	904.8	1070.5	1288.4	1304.7
30°	941.9	933.6	929.0	902.5	883.9	885.3	947.3	1108.7	1373.6	1400.0
32.5°	1066.5	1053.5	1041.2	997.9	963.7	952.5	1002.2	1161.5	1466.1	1508.3
35°	1206.0	1195.6	1182.4	1115.6	1063.0	1037.2	1076.2	1235.3	1574.3	1641.2
37.5°	1340.3	1331.4	1337.7	1247.6	1179.9	1142.3	1173.3	1334.3	1707.8	1806.5
40°	1479.3	1472.4	1473.2	1387.1	1308.2	1266.0	1291.0	1458.6	1860.8	2003.2
42.5°	1630.3	1625.1	1607.9	1531.5	1442.8	1403.5	1426.4	1602.1	2025.0	2227.1
45°	1799.4	1796.2	1780.1	1692.6	1590.9	1546.7	1577.7	1760.6	2190.1	2437.8
47.5°	1945.5	1948.1	1946.0	1872.3	1766.9	1702.0	1739.1	1926.0	2343.6	2635.9
50°	2015.8	2029.3	2049.1	2026.1	1960.7	1894.7	1901.8	2085.6	2490.0	2821.6
52.5°	1979.1	2004.6	2058.6	2095.3	2120.6	2106.8	2087.6	2244.0	2627.8	2989.3
55°	1842.1	1878.0	1967.6	2056.3	2185.2	2285.4	2310.6	2419.7	2762.2	3136.8
57.5°	1592.7	1650.9	1731.3	1910.7	2127.8	2371.8	2570.7	2663.4	2904.6	3294.4
60°	1164.9	1243.0	1342.9	1609.9	1926.8	2325.6	2792.0	3037.8	3107.0	3498.5
62.5°	745.5	793.7	885.6	1137.1	1501.4	2088.7	2859.8	3505.7	3450.0	3833.2
65°	510.4	541.4	625.5	766.8	970.6	1554.8	2678.4	3856.5	3994.9	4363.7
67.5°	370.9	394.4	466.2	589.9	632.4	920.1	2078.4	3840.4	4524.5	4910.3
70°	270.4	287.1	347.4	466.2	486.6	511.8	1259.1	3264.6	4513.0	5055.6
72.5°	200.4	211.9	252.3	361.7	393.9	345.6	623.2	2372.6	3878.0	4572.7
75°	145.0	153.6	183.4	276.7	315.2	263.2	310.9	1386.5	2705.1	3216.6
77.5°	110.8	117.4	136.9	202.7	252.3	197.5	192.9	637.9	1282.6	1288.9
80°	89.0	93.3	103.9	142.7	193.5	147.8	125.7	257.5	405.3	343.0
82.5°	65.5	72.6	87.8	100.2	138.4	101.9	76.6	130.0	154.2	132.6
85°	37.3	42.2	53.1	71.8	88.4	62.3	43.9	57.7	71.8	58.8
87.5°	13.2	17.2	18.7	28.1	38.5	25.8	16.9	16.7	23.5	17.5
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°
793.2	0°	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2
801.8	2.5°	798.9	797.5	791.7	784.0	775.9	768.2	765.6	760.2	756.4	754.4
820.4	5°	815.0	810.4	796.9	779.7	761.6	742.1	728.3	715.7	706.5	697.9
846.0	7.5°	838.0	829.9	806.7	776.5	744.4	711.9	687.8	669.4	657.1	649.1
875.8	10°	864.7	852.3	816.7	771.6	722.0	675.5	647.1	631.3	623.5	619.2
910.0	12.5°	895.4	877.9	827.0	760.4	687.8	634.7	615.2	610.6	610.9	611.2
953.1	15°	933.3	908.9	835.4	736.0	643.3	603.4	600.0	607.4	615.2	618.9
1001.9	17.5°	976.0	941.6	836.8	695.9	599.7	583.3	594.2	610.3	622.1	627.2
1056.4	20°	1022.0	974.9	826.5	639.0	563.8	567.0	586.5	607.2	620.1	626.7
1118.7	22.5°	1074.5	1010.5	801.8	579.3	534.5	549.2	572.1	592.2	605.7	612.3
1191.9	25°	1134.5	1050.4	763.0	529.1	509.3	529.1	552.0	568.7	579.6	585.6
1273.7	27.5°	1201.1	1092.0	711.4	489.2	487.2	508.4	527.3	540.3	546.0	550.6
1360.7	30°	1268.0	1129.9	648.8	459.0	467.9	488.0	501.5	507.3	509.0	509.8
1457.7	32.5°	1340.3	1162.6	583.0	434.0	449.6	468.2	476.2	478.8	470.8	465.3
1575.4	35°	1427.9	1197.7	518.7	414.2	431.5	447.5	450.1	447.8	438.4	427.2
1723.0	37.5°	1536.1	1241.3	467.3	400.2	414.5	425.2	422.0	421.4	422.3	409.1
1900.4	40°	1668.7	1298.1	429.7	389.3	400.7	403.0	394.1	399.0	403.3	383.2
2095.0	42.5°	1816.0	1366.7	405.9	381.8	389.3	383.8	370.0	375.5	374.9	348.5
2290.5	45°	1966.1	1441.4	397.6	376.3	378.6	367.7	352.5	354.0	341.9	318.1
2478.0	47.5°	2115.4	1521.5	402.8	371.8	365.4	353.1	341.3	335.0	317.2	299.4
2657.7	50°	2261.8	1605.6	421.7	362.6	347.4	340.2	331.6	320.4	301.4	286.2
2827.6	52.5°	2397.6	1690.3	442.9	347.4	324.7	329.0	323.5	310.6	291.9	276.4
2988.4	55°	2526.2	1775.0	451.3	326.4	303.4	319.2	316.1	292.2	269.8	257.2
3156.6	57.5°	2666.3	1876.9	442.1	299.7	286.2	308.0	296.0	269.6	256.6	247.2
3375.7	60°	2860.4	2036.8	422.3	266.7	269.8	291.4	270.7	259.8	245.7	235.1
3704.1	62.5°	3182.7	2335.0	390.4	234.0	250.6	266.7	258.6	247.7	233.4	223.1
4265.6	65°	3659.3	2749.6	330.4	208.4	229.1	242.6	245.7	234.8	219.9	209.0
4757.6	67.5°	4061.2	3009.6	250.0	187.2	207.0	223.1	232.0	221.3	205.5	194.9
4872.7	70°	4039.1	2820.7	190.9	166.2	187.5	203.8	215.3	207.0	190.0	180.0
4426.0	72.5°	3587.5	2359.7	154.4	145.0	167.6	183.7	197.5	191.2	174.0	164.2
3242.5	75°	2635.6	1675.1	123.4	123.4	143.0	162.8	178.0	174.0	158.2	151.3
1361.3	77.5°	1111.0	702.7	96.7	102.5	118.8	139.8	158.7	160.2	146.4	155.0
360.0	80°	295.4	193.8	73.8	80.7	93.3	115.4	138.1	137.5	122.6	114.5
133.8	82.5°	112.5	76.4	52.5	56.8	67.5	88.4	109.4	112.8	97.9	84.7
52.5	85°	43.3	32.7	32.4	34.2	39.3	58.6	82.7	85.5	73.8	62.6
14.6	87.5°	11.2	9.8	12.1	11.5	18.1	31.3	47.4	49.1	45.1	26.1
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°
793.2
756.7
701.3
650.8
620.4
611.7
618.6
628.4
628.4
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587.3
552.3
511.8
467.1
427.7
409.9
383.8
348.2
318.9
299.4
285.1
276.7
256.1
246.3
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223.1
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