

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: P945354

Luminaire Tested: **GALN-SB1B-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945354
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-827-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4889 lumens
Efficiency: N/A
Efficacy: 122.8 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

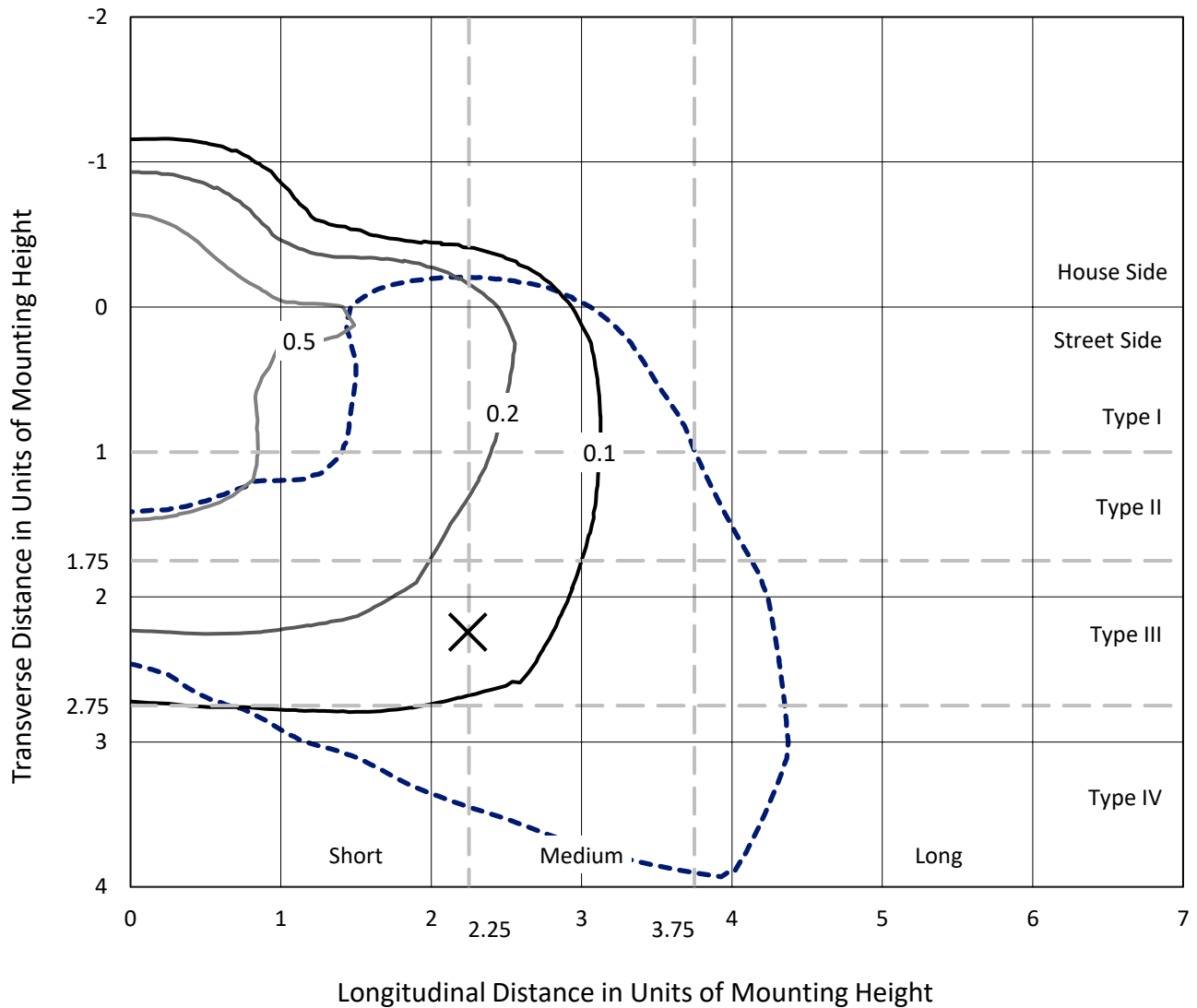
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

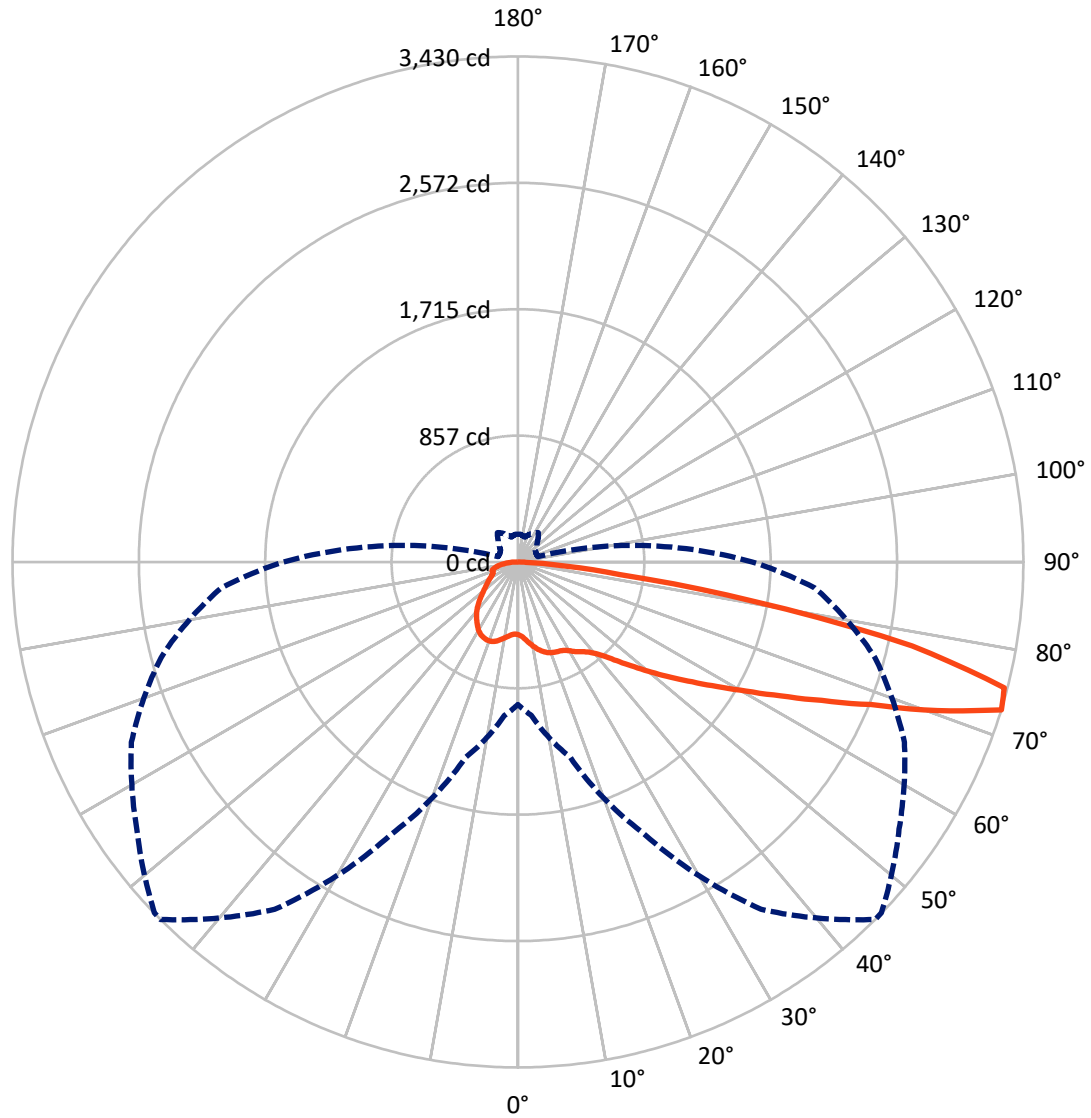
✕ Max cd
 - - - 1/2 Max cd



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	1105.2	0.0	1105.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	3783.8	0.0	3783.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	4889.0	0.0	4889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	1.0
10°-20°	167.4	3.4
20°-30°	291.1	6.0
30°-40°	417.4	8.5
40°-50°	587.7	12.0
50°-60°	900.2	18.4
60°-70°	1304.0	26.7
70°-80°	1041.3	21.3
80°-90°	129.7	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°	4889.0	100.0
0°-180°	4889.0	100.0

Coefficient of Utilization



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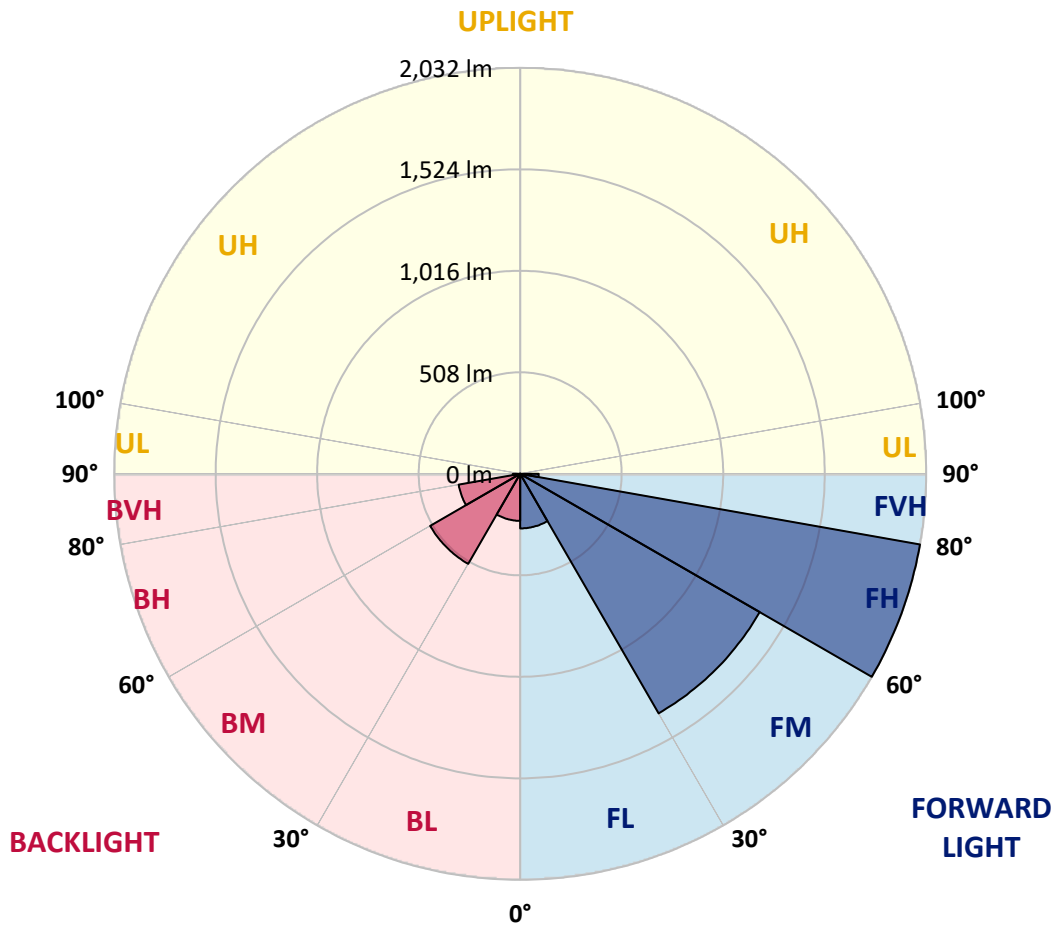
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	273.4	5.6			
FM (30°-60°)	1384.8	28.3			
FH (60°-80°)	2032.5	41.6			G2/5000
FVH (80°-90°)	93.0	1.9			G1/100
BL (0°-30°)	235.3	4.8	B1/500		
BM (30°-60°)	520.4	10.6	B1/1000		
BH (60°-80°)	312.9	6.4	B1/500		G1/500
BVH (80°-90°)	36.6	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°	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2
2.5°	512.5	515.9	512.8	509.9	508.7	505.3	505.1	503.0	501.7	498.1
5°	548.3	552.7	547.5	541.9	536.7	528.5	527.5	521.5	514.8	507.1
7.5°	588.8	592.6	586.7	578.2	569.2	555.5	555.3	544.5	533.9	520.8
10°	624.0	629.2	621.2	609.6	598.3	582.8	581.0	568.7	555.3	538.3
12.5°	655.2	658.8	651.1	636.9	623.8	608.3	606.0	592.4	577.4	558.1
15°	679.9	684.6	674.3	659.1	645.2	630.0	627.9	615.5	600.6	580.3
17.5°	696.2	700.0	689.5	672.5	659.1	646.4	644.9	634.6	621.5	600.9
20°	702.3	706.5	695.4	678.1	665.8	656.0	655.2	647.7	638.7	619.9
22.5°	708.5	712.4	698.0	679.9	669.1	662.9	662.7	657.8	654.2	638.7
25°	733.5	734.5	715.2	689.2	673.7	668.3	668.1	667.8	669.4	657.3
27.5°	755.1	754.9	738.4	713.9	690.0	678.6	678.4	681.0	685.9	675.8
30°	786.8	784.0	764.4	738.9	717.0	699.5	698.0	695.6	699.5	691.5
32.5°	854.0	845.0	813.3	768.0	739.4	726.0	724.0	709.5	711.1	706.2
35°	950.4	938.5	896.3	823.1	767.2	748.2	747.1	728.9	725.8	721.4
37.5°	1065.0	1050.3	1001.1	903.0	815.1	773.9	772.4	755.9	743.3	738.6
40°	1180.1	1161.5	1120.9	1000.3	885.7	816.9	812.0	787.1	772.6	764.9
42.5°	1291.9	1276.4	1241.6	1109.5	972.8	879.8	869.0	826.2	815.4	808.2
45°	1390.8	1376.9	1351.4	1226.2	1074.7	965.3	954.7	884.9	881.6	881.6
47.5°	1471.1	1468.0	1441.0	1345.2	1195.0	1062.6	1044.4	966.6	975.6	989.5
50°	1560.2	1551.7	1522.9	1462.4	1336.4	1174.2	1159.2	1066.8	1100.5	1138.6
52.5°	1642.1	1646.8	1614.6	1584.4	1496.1	1298.6	1272.3	1185.0	1257.9	1321.0
55°	1726.3	1726.6	1717.6	1713.5	1663.5	1436.1	1407.2	1327.1	1443.0	1521.3
57.5°	1805.4	1805.9	1819.3	1855.6	1857.7	1594.7	1562.0	1501.8	1648.8	1728.7
60°	1876.0	1879.6	1916.2	2001.2	2028.5	1776.6	1745.7	1708.1	1861.6	1941.9
62.5°	1899.7	1912.8	1994.2	2115.0	2197.1	1999.6	1969.2	1946.8	2085.1	2159.8
65°	1859.5	1889.6	2047.0	2209.0	2370.7	2264.6	2234.5	2210.0	2317.4	2387.7
67.5°	1760.9	1799.7	2043.9	2307.6	2581.4	2583.5	2555.4	2498.0	2566.5	2593.5
70°	1501.0	1559.2	1863.9	2344.5	2823.2	3019.5	2992.5	2844.6	2815.0	2684.2
72.5°	967.1	1045.4	1372.5	2041.3	2877.1	3429.8	3428.2	3157.5	2893.6	2508.0
75°	352.8	400.7	637.7	1281.3	2415.0	3408.9	3419.0	3104.0	2641.4	1937.3
77.5°	128.5	140.6	208.1	492.4	1485.3	2735.2	2756.0	2481.5	1880.1	972.2
80°	67.5	74.2	106.6	191.1	636.4	1624.4	1657.1	1474.7	883.6	292.8
82.5°	37.3	40.4	59.8	103.8	286.7	694.6	714.2	582.6	310.9	124.1
85°	20.1	21.4	28.1	56.7	140.1	240.8	246.2	174.1	123.9	72.9
87.5°	5.9	7.2	9.3	18.0	54.9	54.1	55.4	34.5	48.9	36.8
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°
493.2	0°	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2
497.1	2.5°	495.5	494.8	491.9	490.6	489.1	488.8	490.1	490.4	490.6	490.9
502.7	5°	500.2	497.6	495.0	493.5	494.0	494.2	496.8	498.6	499.9	500.9
513.3	7.5°	509.2	507.1	502.7	502.5	503.2	505.6	508.9	513.0	515.4	517.2
526.9	10°	522.6	518.7	513.6	514.3	515.9	519.2	526.2	529.5	533.4	536.7
543.7	12.5°	536.2	532.9	526.9	527.5	530.0	536.0	542.7	546.8	549.4	551.9
561.7	15°	554.0	548.1	541.6	541.6	546.3	552.7	555.8	559.1	560.7	563.5
581.0	17.5°	572.3	564.5	556.0	555.5	561.2	564.3	566.1	566.6	567.1	570.2
599.8	20°	590.6	582.1	570.0	568.9	570.2	569.7	569.4	568.9	569.7	573.6
619.1	22.5°	608.6	598.8	582.1	577.4	573.8	568.9	568.7	568.4	568.9	572.8
640.0	25°	629.7	617.9	595.5	581.5	569.4	562.7	563.5	563.8	564.3	567.4
661.6	27.5°	652.6	639.5	607.8	580.3	558.4	553.7	552.4	553.2	555.0	559.9
683.3	30°	675.5	660.1	619.1	575.1	544.5	538.0	533.9	535.7	541.4	546.3
702.1	32.5°	696.4	681.0	628.2	563.8	526.7	516.6	511.2	513.6	519.2	521.0
722.9	35°	720.9	703.4	632.0	545.7	507.4	491.9	484.7	481.4	484.2	482.4
747.4	37.5°	748.2	729.9	631.5	522.1	484.7	466.9	456.9	444.3	438.3	432.2
783.5	40°	788.6	762.3	625.3	493.5	456.6	440.4	422.4	401.0	387.6	375.5
841.7	42.5°	843.7	807.4	614.0	462.0	425.0	409.8	385.3	360.3	339.2	319.1
930.0	45°	925.9	866.4	599.8	428.6	390.7	375.8	349.2	321.2	297.2	271.5
1055.4	47.5°	1044.4	945.7	586.4	390.4	354.6	341.0	317.0	291.0	262.7	237.7
1236.7	50°	1207.1	1059.6	574.1	353.4	319.1	308.8	289.7	263.2	234.6	214.5
1449.2	52.5°	1414.2	1214.3	568.9	317.6	285.9	282.0	266.8	242.1	215.1	198.1
1697.0	55°	1651.9	1399.5	568.9	283.3	256.8	258.1	247.5	224.6	201.1	185.9
1952.5	57.5°	1894.5	1587.0	558.6	251.6	232.1	237.5	230.8	210.7	189.6	173.8
2221.1	60°	2118.1	1744.1	516.9	222.8	210.2	218.7	214.3	197.0	171.3	158.1
2445.7	62.5°	2289.9	1832.7	436.5	199.9	192.1	201.9	199.6	179.0	167.9	162.5
2630.1	65°	2375.9	1818.3	333.8	179.5	176.9	192.1	187.2	186.5	177.7	171.5
2690.1	67.5°	2323.1	1694.2	242.1	164.6	168.2	183.1	201.9	205.0	188.8	176.7
2521.1	70°	2091.5	1469.6	180.3	150.4	157.1	183.4	230.2	214.5	185.2	171.0
2022.0	72.5°	1591.1	1095.9	139.8	135.5	142.7	184.7	242.9	210.2	174.9	189.0
1259.7	75°	909.9	601.6	112.3	117.2	124.7	172.6	236.4	198.8	166.9	173.6
499.1	77.5°	346.9	231.3	92.7	99.2	100.2	150.7	226.1	198.1	158.9	155.0
149.6	80°	120.3	90.4	76.7	78.8	77.5	133.9	216.9	172.3	130.1	116.4
61.8	82.5°	49.2	45.1	60.8	58.2	55.1	104.0	175.1	140.9	106.4	94.0
29.9	85°	21.4	28.6	40.2	35.3	31.9	72.1	140.4	119.2	89.9	77.5
9.8	87.5°	4.4	10.8	17.0	16.0	16.5	48.2	99.7	84.7	63.6	47.6
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°
493.2
491.9
501.4
517.7
536.0
553.0
564.5
571.2
575.1
575.4
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564.8
551.7
527.5
488.1
436.0
376.3
317.3
268.4
234.9
213.2
196.8
184.4
171.3
156.1
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169.5
174.6
168.7
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