

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: P938742

Luminaire Tested: **GALN-SB1A-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
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-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4448 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

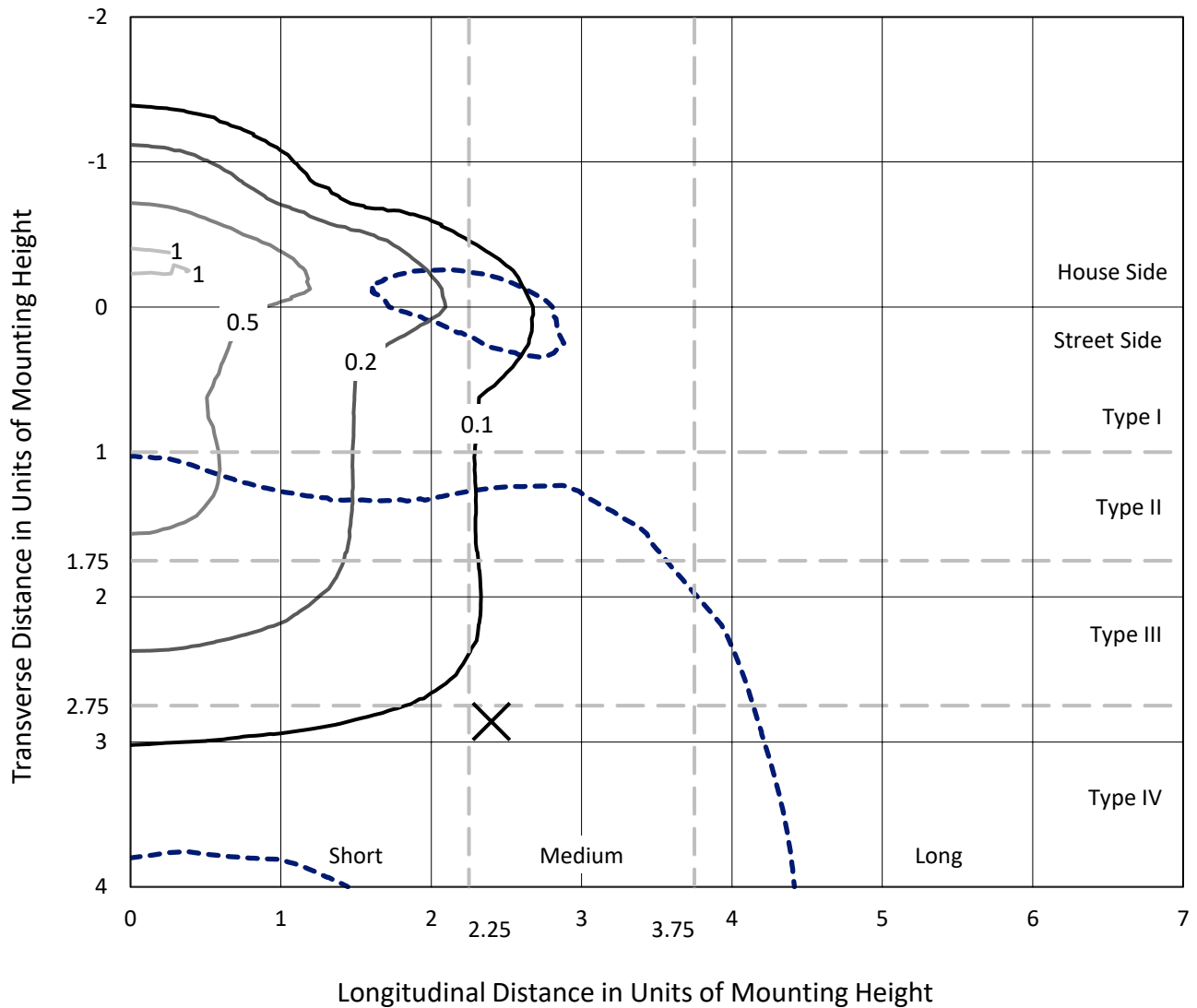
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

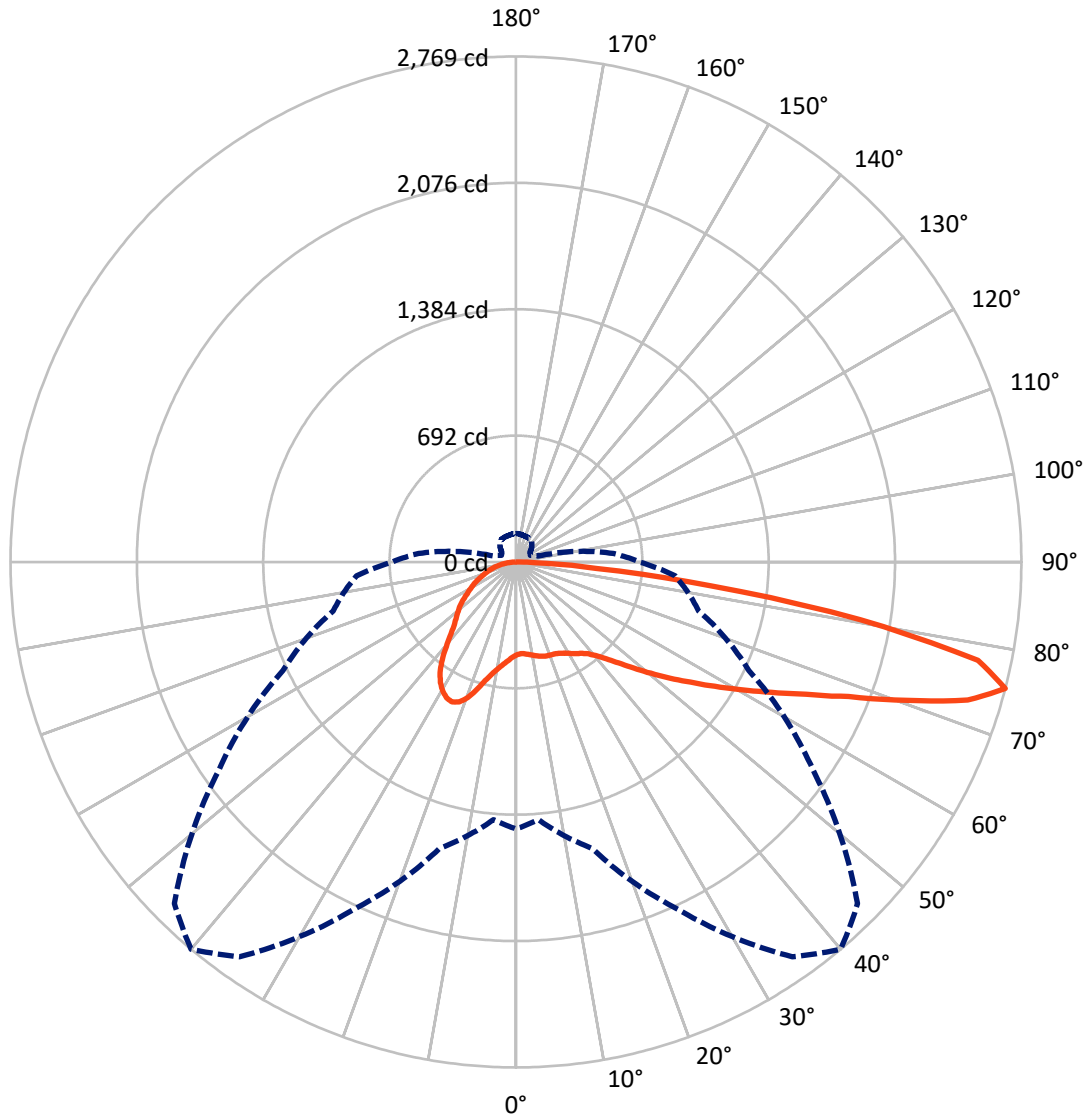
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1378.1	0.0	1378.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	3069.9	0.0	3069.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	4448.0	0.0	4448.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	1.1
10°-20°	170.5	3.8
20°-30°	311.3	7.0
30°-40°	441.4	9.9
40°-50°	596.1	13.4
50°-60°	801.9	18.0
60°-70°	1017.8	22.9
70°-80°	923.7	20.8
80°-90°	134.6	3.0
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°	4448.0	100.0
0°-180°	4448.0	100.0

Coefficient of Utilization



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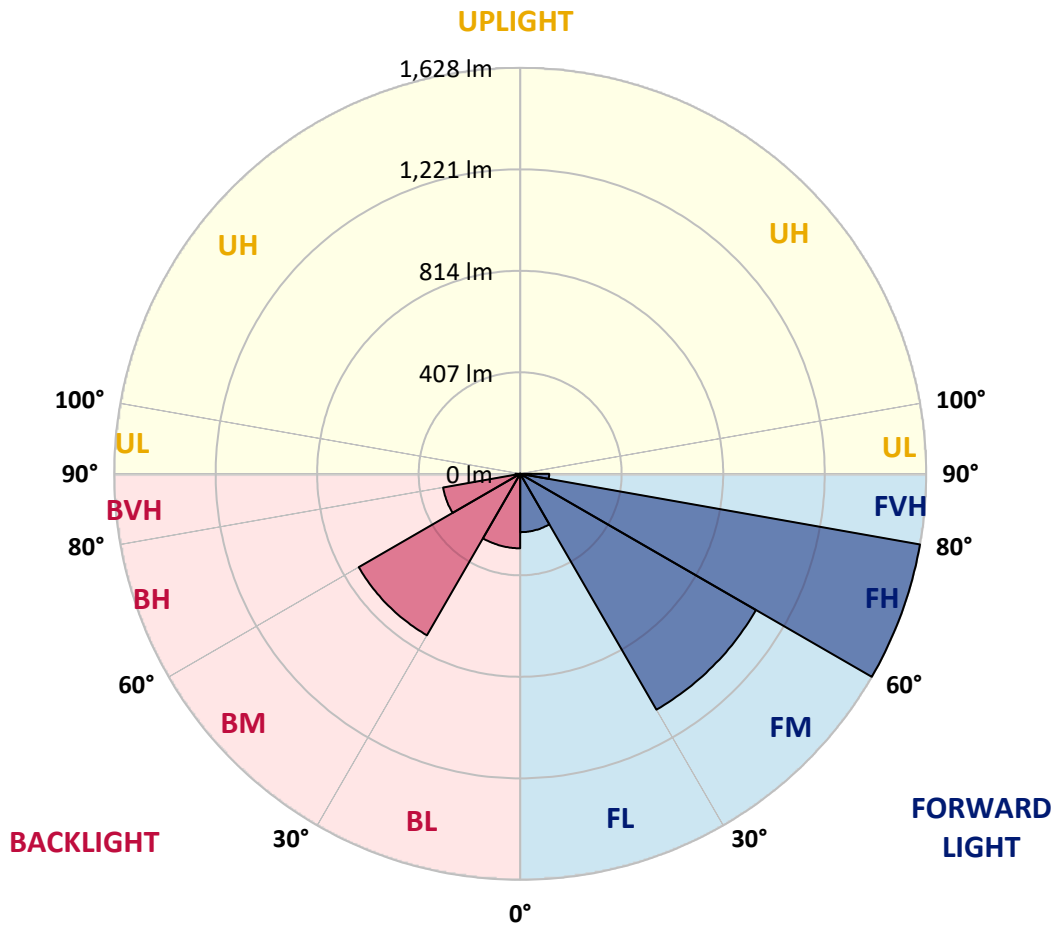
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	234.0	5.3			
FM	(30°-60°)	1091.9	24.5			
FH	(60°-80°)	1627.9	36.6			G1/1800
FVH	(80°-90°)	116.1	2.6			G2/225
BL	(0°-30°)	298.5	6.7	B1/500		
BM	(30°-60°)	747.5	16.8	B1/1000		
BH	(60°-80°)	313.6	7.0	B1/500		G1/500
BVH	(80°-90°)	18.5	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-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6
2.5°	500.8	503.7	503.0	502.0	502.0	502.3	502.0	503.7	505.3	507.0
5°	506.0	508.9	507.5	506.3	505.3	505.1	504.4	504.2	505.1	507.2
7.5°	516.2	519.0	516.9	514.8	512.9	511.9	511.0	509.6	508.9	510.1
10°	527.5	530.3	527.7	524.0	520.9	519.7	518.8	517.4	516.4	517.1
12.5°	538.8	541.7	538.1	532.9	528.9	528.2	527.0	526.6	526.3	526.1
15°	549.4	551.8	547.3	541.2	536.9	535.8	534.6	535.3	536.5	537.9
17.5°	557.7	560.1	553.5	545.4	541.4	541.0	540.2	542.6	545.9	549.4
20°	565.3	567.6	559.1	548.3	543.6	543.6	543.8	548.7	553.5	558.6
22.5°	575.9	577.8	567.4	552.5	545.7	546.1	548.0	553.0	558.9	566.0
25°	591.7	593.1	580.4	560.5	552.8	554.2	555.8	558.2	563.8	572.1
27.5°	617.2	618.3	601.6	574.7	562.9	565.3	567.6	566.0	568.6	575.6
30°	653.0	653.7	632.5	596.9	580.1	581.3	581.8	574.9	570.0	575.6
32.5°	695.5	695.2	670.0	623.8	599.7	598.5	594.5	581.1	569.5	574.5
35°	761.3	758.7	726.1	661.5	621.9	614.6	605.1	587.9	571.9	573.3
37.5°	870.3	862.3	817.2	723.3	654.9	636.3	622.3	599.0	577.1	572.8
40°	993.2	983.1	933.5	808.0	704.4	674.5	652.1	614.8	585.5	574.9
42.5°	1139.0	1124.6	1071.3	907.8	767.2	723.8	690.1	634.8	598.0	581.8
45°	1318.1	1299.0	1223.5	1020.3	846.2	788.4	743.4	665.3	617.2	595.0
47.5°	1499.0	1503.7	1396.4	1149.1	941.1	868.2	810.1	711.1	645.0	616.2
50°	1691.3	1694.6	1568.4	1291.9	1048.6	958.3	885.2	762.2	683.7	646.4
52.5°	1841.3	1841.8	1724.5	1441.2	1160.7	1057.4	966.1	820.8	728.5	686.5
55°	1935.2	1934.0	1834.0	1582.5	1289.5	1161.4	1055.7	887.3	783.2	733.7
57.5°	2003.4	1999.9	1909.5	1704.0	1426.8	1284.3	1157.2	962.8	847.9	789.8
60°	2029.3	2027.2	1960.7	1809.0	1571.2	1420.2	1274.2	1047.2	921.3	856.1
62.5°	2039.3	2043.3	2010.9	1910.7	1725.7	1570.7	1402.8	1148.2	1003.8	931.2
65°	2074.2	2081.5	2074.9	2043.7	1900.3	1747.0	1573.3	1268.3	1093.9	1011.6
67.5°	2143.3	2150.6	2153.4	2203.0	2113.6	1966.6	1786.1	1417.9	1199.4	1095.1
70°	2141.6	2139.5	2189.5	2329.7	2380.6	2270.7	2073.0	1601.9	1325.1	1164.5
72.5°	1949.4	1932.4	2050.6	2328.3	2602.9	2588.2	2423.3	1839.2	1433.7	1173.0
75°	1462.4	1417.1	1625.9	2098.2	2639.9	2768.5	2646.0	1986.4	1407.9	1036.4
77.5°	625.4	579.9	825.9	1553.3	2362.7	2588.0	2441.7	1733.0	1123.9	685.3
80°	163.7	163.5	249.6	704.2	1606.8	1911.2	1676.7	1119.2	642.2	244.9
82.5°	67.7	66.1	91.8	273.9	785.1	1072.5	875.2	499.2	231.9	66.3
85°	25.2	25.0	44.6	94.6	277.0	442.3	320.1	127.6	57.8	32.3
87.5°	7.1	6.8	9.7	32.8	67.5	102.4	54.7	21.0	16.3	12.7
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°
508.6	0°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6
509.6	2.5°	510.3	511.5	513.6	515.2	517.4	519.7	523.0	525.1	527.3	528.7
510.8	5°	512.4	515.0	520.4	525.9	532.2	538.1	545.0	549.9	553.9	555.1
515.0	7.5°	517.1	521.4	530.6	539.8	549.9	559.6	569.5	578.0	584.8	587.4
522.6	10°	525.4	531.0	544.0	557.0	570.4	585.3	598.0	610.3	620.0	624.0
531.5	12.5°	535.8	542.8	559.8	577.8	596.4	616.9	633.4	648.5	660.6	666.0
544.0	15°	549.2	558.4	580.1	604.2	631.5	660.1	681.1	697.8	711.3	717.9
557.0	17.5°	563.8	576.1	603.5	639.8	679.0	716.5	741.0	753.3	767.2	773.6
569.0	20°	578.0	593.1	632.3	685.1	737.2	777.1	796.9	800.2	801.2	801.9
580.4	22.5°	592.6	612.9	668.3	742.2	798.1	825.7	828.5	814.4	794.6	785.4
591.4	25°	608.7	635.6	715.5	805.2	850.5	853.8	832.1	797.6	760.1	742.9
600.4	27.5°	624.2	661.7	772.2	865.3	888.2	859.2	812.5	763.7	718.4	700.2
606.8	30°	639.8	691.7	834.7	917.9	905.4	845.8	781.6	727.1	681.6	662.5
612.4	32.5°	655.6	726.6	906.6	955.9	902.4	817.2	743.1	686.0	645.9	625.9
617.4	35°	673.5	769.6	974.8	976.7	881.9	775.2	692.4	637.0	602.1	586.0
623.3	37.5°	696.9	824.1	1035.0	981.9	846.0	713.6	629.4	578.9	550.2	542.8
632.0	40°	725.9	889.6	1081.0	973.6	792.9	638.9	560.5	520.2	503.9	505.6
643.8	42.5°	763.7	963.0	1113.3	952.4	719.1	561.7	500.1	482.2	490.0	496.6
661.5	45°	812.7	1039.2	1133.3	916.3	635.6	496.4	464.5	468.8	474.7	475.4
690.1	47.5°	875.5	1116.4	1146.6	861.8	550.4	450.4	441.9	442.8	441.6	436.7
732.8	50°	953.8	1191.4	1158.3	789.6	478.0	421.6	410.3	407.0	390.7	374.6
789.6	52.5°	1043.0	1260.3	1163.3	700.0	421.6	397.5	379.1	358.4	327.9	323.0
861.1	55°	1142.1	1324.0	1150.6	589.8	374.2	366.6	338.8	313.8	310.5	306.2
955.2	57.5°	1260.5	1392.6	1124.6	466.9	325.6	330.5	303.4	306.2	300.3	293.7
1076.2	60°	1390.0	1463.6	1079.1	354.8	275.3	285.5	294.2	294.0	292.3	286.9
1203.9	62.5°	1506.6	1510.3	989.4	271.8	231.2	250.5	274.4	274.1	272.7	269.7
1337.2	65°	1575.9	1503.3	839.9	214.0	194.9	221.8	247.5	249.4	249.6	249.4
1437.4	67.5°	1563.7	1420.4	634.6	170.3	164.9	192.5	220.8	223.4	225.3	225.8
1450.2	70°	1424.9	1238.6	413.8	135.9	138.2	166.8	195.6	198.2	199.8	201.7
1258.4	72.5°	1110.7	910.6	236.9	109.9	114.9	144.6	170.6	173.6	174.6	178.1
875.7	75°	676.8	535.5	127.9	86.6	94.4	123.6	145.8	149.3	151.0	155.2
430.1	77.5°	321.8	231.9	72.9	67.5	76.0	101.0	123.1	127.2	122.7	125.0
118.7	80°	108.8	86.1	46.0	51.4	58.0	78.8	98.6	102.6	93.2	92.7
39.4	82.5°	38.0	34.9	29.3	34.2	37.5	56.4	74.5	79.7	69.4	69.1
17.7	85°	14.9	14.2	16.3	18.6	22.4	34.7	49.1	51.7	42.7	34.4
5.2	87.5°	3.1	3.3	4.0	4.2	6.8	12.0	17.7	21.7	17.2	14.6
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°
508.6
527.7
555.6
587.7
624.2
666.0
717.4
773.3
803.8
788.0
745.5
702.3
664.6
628.5
589.6
548.0
511.2
502.7
480.1
440.5
376.8
324.6
306.9
292.5
285.0
268.5
249.4
226.2
202.7
179.5
155.7
123.1
91.8
65.8
34.0
13.4
0.0

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