

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: P938752

Luminaire Tested: **GALN-SB1A-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938752
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-740-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4706 lumens
Efficiency: N/A
Efficacy: 152.3 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

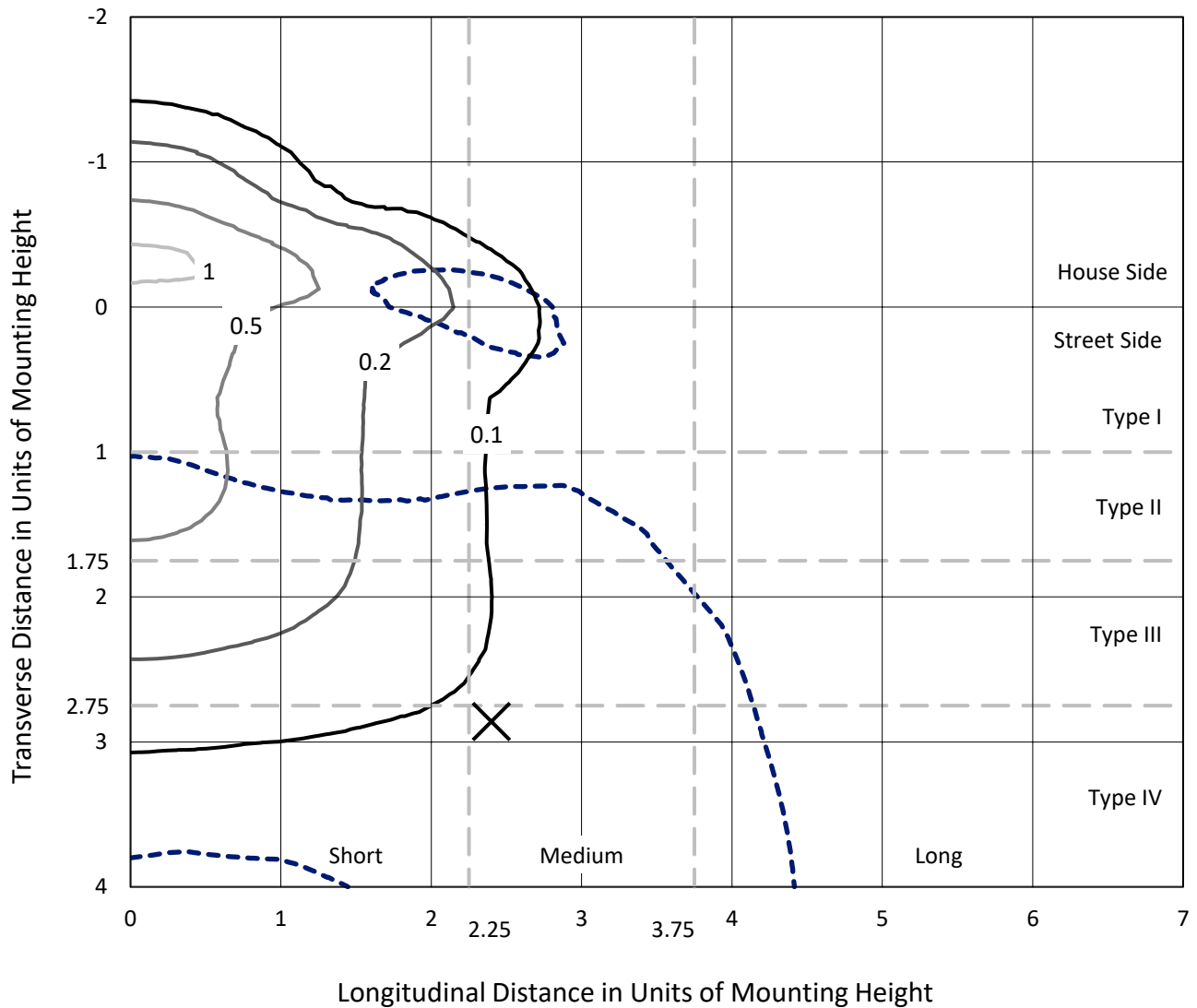
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

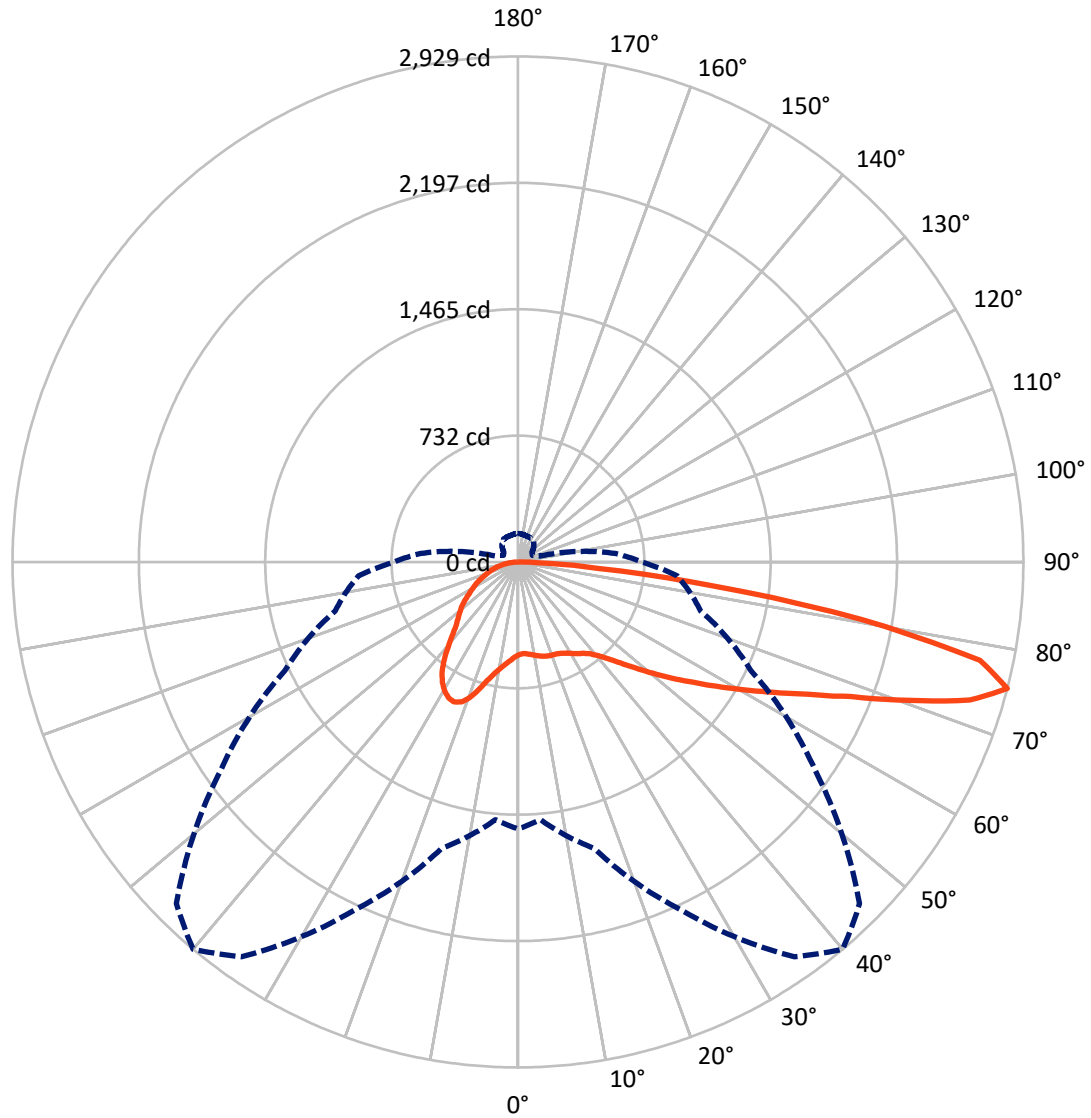
✕ Max cd
 - - - 1/2 Max cd



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	1458.1	0.0	1458.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	3247.9	0.0	3247.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	4706.0	0.0	4706.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	1.1
10°-20°	180.4	3.8
20°-30°	329.3	7.0
30°-40°	467.0	9.9
40°-50°	630.7	13.4
50°-60°	848.4	18.0
60°-70°	1076.8	22.9
70°-80°	977.3	20.8
80°-90°	142.5	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°	4706.0	100.0
0°-180°	4706.0	100.0

Coefficient of Utilization



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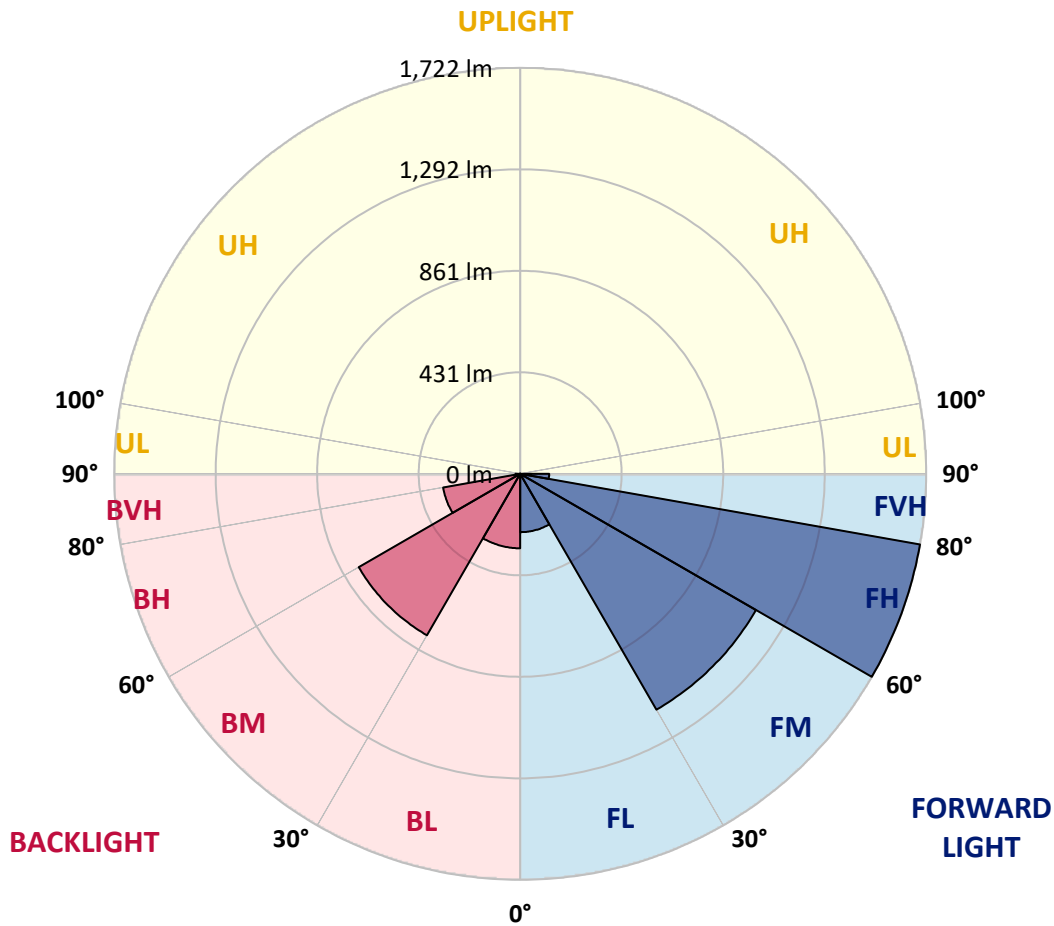
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	247.5	5.3			
FM (30°-60°)	1155.2	24.5			
FH (60°-80°)	1722.3	36.6			G1/1800
FVH (80°-90°)	122.8	2.6			G2/225
BL (0°-30°)	315.8	6.7	B1/500		
BM (30°-60°)	790.9	16.8	B1/1000		
BH (60°-80°)	331.8	7.0	B1/500		G1/500
BVH (80°-90°)	19.6	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°	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1
2.5°	529.9	532.9	532.1	531.1	531.1	531.1	531.1	532.9	534.6	536.4
5°	535.4	538.4	536.9	535.6	534.6	534.4	533.6	533.4	534.4	536.6
7.5°	546.1	549.1	546.9	544.6	542.6	541.6	540.6	539.1	538.4	539.6
10°	558.1	561.1	558.4	554.4	551.1	549.9	548.9	547.4	546.4	547.1
12.5°	570.1	573.1	569.3	563.8	559.6	558.9	557.6	557.1	556.9	556.6
15°	581.3	583.8	579.1	572.6	568.1	566.8	565.6	566.3	567.6	569.1
17.5°	590.1	592.6	585.6	577.1	572.8	572.3	571.6	574.1	577.6	581.3
20°	598.0	600.5	591.6	580.1	575.1	575.1	575.3	580.6	585.6	591.1
22.5°	609.3	611.3	600.3	584.6	577.3	577.8	579.8	585.1	591.3	598.8
25°	626.0	627.5	614.0	593.0	584.8	586.3	588.1	590.6	596.5	605.3
27.5°	653.0	654.2	636.5	608.0	595.5	598.0	600.5	598.8	601.5	609.0
30°	690.9	691.6	669.2	631.5	613.8	615.0	615.5	608.3	603.0	609.0
32.5°	735.8	735.6	708.9	659.9	634.5	633.2	629.0	614.8	602.5	607.8
35°	805.5	802.7	768.3	699.9	657.9	650.2	640.2	622.0	605.0	606.5
37.5°	920.8	912.3	864.6	765.3	692.9	673.2	658.4	633.7	610.5	606.0
40°	1050.8	1040.1	987.7	854.9	745.3	713.6	689.9	650.5	619.5	608.3
42.5°	1205.1	1189.8	1133.4	960.5	811.7	765.8	730.1	671.7	632.7	615.5
45°	1394.5	1374.3	1294.4	1079.5	895.3	834.2	786.5	703.9	653.0	629.5
47.5°	1586.0	1590.9	1477.4	1215.8	995.7	918.5	857.1	752.3	682.4	652.0
50°	1789.4	1792.9	1659.3	1366.8	1109.5	1013.9	936.5	806.5	723.3	683.9
52.5°	1948.1	1948.6	1824.6	1524.8	1228.0	1118.7	1022.1	868.4	770.8	726.3
55°	2047.5	2046.2	1940.4	1674.3	1364.3	1228.8	1117.0	938.7	828.7	776.3
57.5°	2119.6	2115.9	2020.3	1802.9	1509.6	1358.8	1224.3	1018.6	897.1	835.7
60°	2147.1	2144.8	2074.4	1913.9	1662.3	1502.6	1348.1	1108.0	974.7	905.8
62.5°	2157.5	2161.8	2127.6	2021.5	1825.8	1661.8	1484.1	1214.8	1062.0	985.2
65°	2194.5	2202.2	2195.2	2162.3	2010.5	1848.3	1664.6	1341.8	1157.4	1070.3
67.5°	2267.6	2275.4	2278.3	2330.8	2236.2	2080.7	1889.7	1500.1	1269.0	1158.6
70°	2265.9	2263.6	2316.5	2464.8	2518.7	2402.4	2193.2	1694.8	1402.0	1232.0
72.5°	2062.4	2044.5	2169.5	2463.3	2753.8	2738.4	2563.9	1945.9	1516.8	1241.0
75°	1547.3	1499.3	1720.2	2219.9	2793.0	2929.1	2799.5	2101.6	1489.6	1096.5
77.5°	661.7	613.5	873.8	1643.4	2499.7	2738.1	2583.4	1833.6	1189.1	725.1
80°	173.2	173.0	264.1	745.1	1700.0	2022.0	1773.9	1184.1	679.4	259.1
82.5°	71.6	69.9	97.1	289.8	830.7	1134.7	926.0	528.2	245.4	70.1
85°	26.7	26.5	47.2	100.1	293.0	468.0	338.7	135.0	61.2	34.2
87.5°	7.5	7.2	10.2	34.7	71.4	108.3	57.9	22.2	17.2	13.5
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°
538.1	0°	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1
539.1	2.5°	539.9	541.1	543.4	545.1	547.4	549.9	553.4	555.6	557.9	559.4
540.4	5°	542.1	544.9	550.6	556.4	563.1	569.3	576.6	581.8	586.1	587.3
544.9	7.5°	547.1	551.6	561.4	571.1	581.8	592.1	602.5	611.5	618.8	621.5
552.9	10°	555.9	561.8	575.6	589.3	603.5	619.3	632.7	645.7	655.9	660.2
562.3	12.5°	566.8	574.3	592.3	611.3	631.0	652.7	670.2	686.2	698.9	704.6
575.6	15°	581.1	590.8	613.8	639.2	668.2	698.4	720.6	738.3	752.5	759.5
589.3	17.5°	596.5	609.5	638.5	676.9	718.3	758.0	784.0	797.0	811.7	818.4
602.0	20°	611.5	627.5	668.9	724.8	780.0	822.2	843.1	846.6	847.6	848.4
614.0	22.5°	627.0	648.5	707.1	785.2	844.4	873.6	876.6	861.6	840.7	830.9
625.7	25°	644.0	672.4	757.0	851.9	899.8	903.3	880.3	843.9	804.2	786.0
635.2	27.5°	660.4	700.1	816.9	915.5	939.7	909.0	859.6	808.0	760.0	740.8
642.0	30°	676.9	731.8	883.1	971.2	958.0	894.8	826.9	769.3	721.1	700.9
648.0	32.5°	693.6	768.8	959.2	1011.4	954.7	864.6	786.2	725.8	683.4	662.2
653.2	35°	712.6	814.2	1031.3	1033.3	933.0	820.2	732.6	673.9	637.0	620.0
659.4	37.5°	737.3	871.9	1095.0	1038.8	895.1	755.0	665.9	612.5	582.1	574.3
668.7	40°	768.0	941.2	1143.7	1030.1	838.9	675.9	593.0	550.4	533.1	534.9
681.2	42.5°	808.0	1018.9	1177.9	1007.6	760.8	594.3	529.2	510.2	518.4	525.4
699.9	45°	859.9	1099.5	1199.1	969.4	672.4	525.2	491.5	496.0	502.2	502.9
730.1	47.5°	926.3	1181.1	1213.1	911.8	582.3	476.5	467.5	468.5	467.3	462.0
775.3	50°	1009.1	1260.5	1225.5	835.4	505.7	446.0	434.1	430.6	413.3	396.4
835.4	52.5°	1103.5	1333.4	1230.8	740.6	446.0	420.6	401.1	379.1	346.9	341.7
911.0	55°	1208.3	1400.8	1217.3	624.0	395.9	387.9	358.4	332.0	328.5	324.0
1010.6	57.5°	1333.6	1473.4	1189.8	494.0	344.4	349.7	321.0	324.0	317.7	310.8
1138.7	60°	1470.6	1548.5	1141.7	375.4	291.3	302.0	311.3	311.0	309.3	303.5
1273.7	62.5°	1593.9	1597.9	1046.8	287.5	244.6	265.1	290.3	290.0	288.5	285.3
1414.7	65°	1667.3	1590.5	888.6	226.4	206.2	234.6	261.8	263.8	264.1	263.8
1520.8	67.5°	1654.3	1502.8	671.4	180.2	174.5	203.7	233.6	236.4	238.4	238.9
1534.3	70°	1507.6	1310.4	437.8	143.8	146.3	176.5	206.9	209.7	211.4	213.4
1331.4	72.5°	1175.1	963.5	250.6	116.3	121.6	153.0	180.5	183.7	184.7	188.4
926.5	75°	716.1	566.6	135.3	91.6	99.8	130.8	154.3	158.0	159.7	164.2
455.0	77.5°	340.5	245.4	77.1	71.4	80.4	106.8	130.3	134.5	129.8	132.3
125.5	80°	115.1	91.1	48.7	54.4	61.4	83.4	104.3	108.6	98.6	98.1
41.7	82.5°	40.2	36.9	31.0	36.2	39.7	59.7	78.9	84.4	73.4	73.1
18.7	85°	15.7	15.0	17.2	19.7	23.7	36.7	51.9	54.7	45.2	36.4
5.5	87.5°	3.2	3.5	4.2	4.5	7.2	12.7	18.7	23.0	18.2	15.5
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

<u>180°</u>
538.1
558.4
587.8
621.8
660.4
704.6
759.0
818.2
850.4
833.7
788.7
743.1
703.1
664.9
623.8
579.8
540.9
531.9
507.9
466.0
398.6
343.4
324.7
309.5
301.5
284.0
263.8
239.4
214.4
189.9
164.7
130.3
97.1
69.6
35.9
14.2
0.0

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