

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: P944901

Luminaire Tested: **GALN-SB1A-735-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
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-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4386 lumens
Efficiency: N/A
Efficacy: 141.9 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

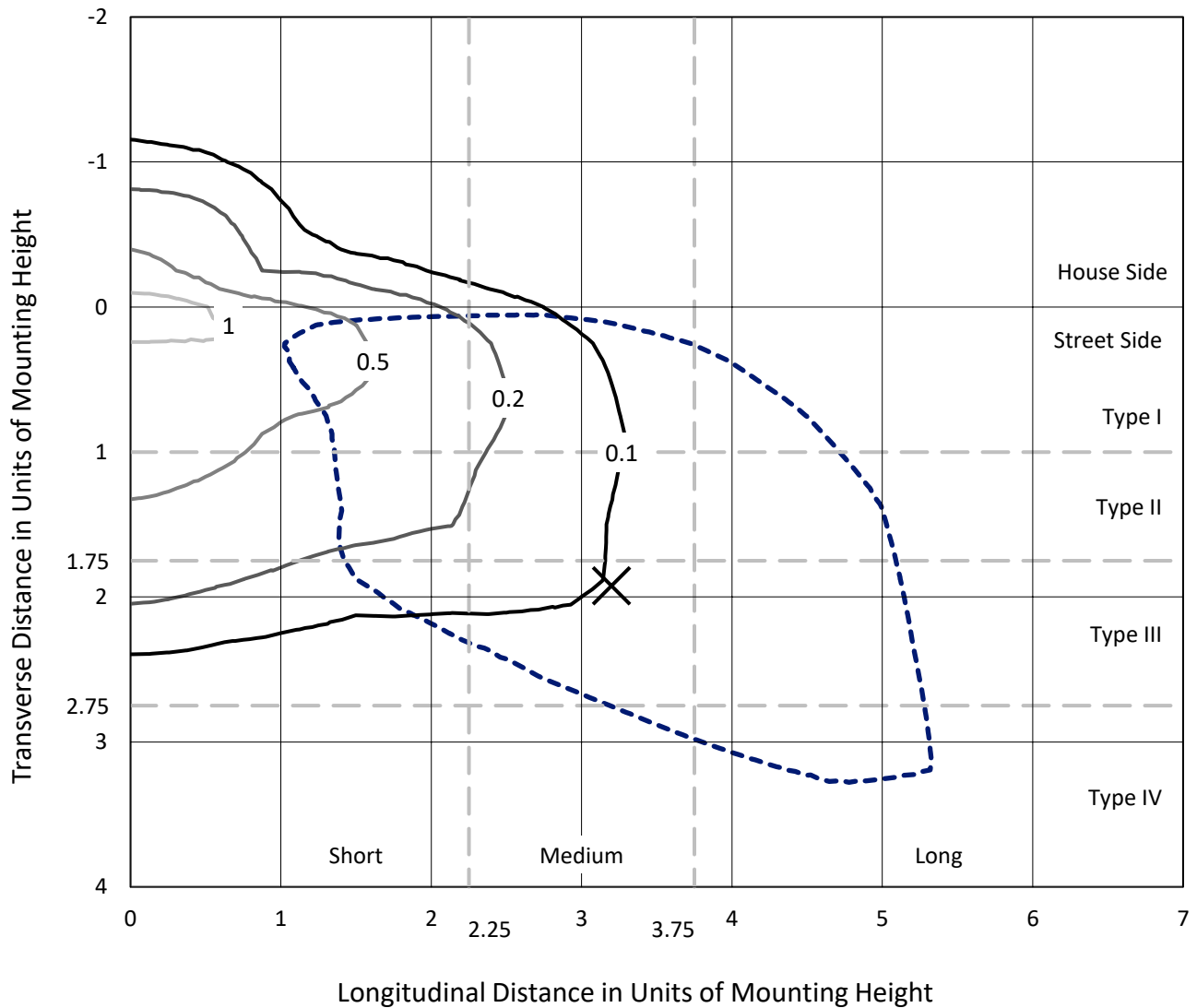
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

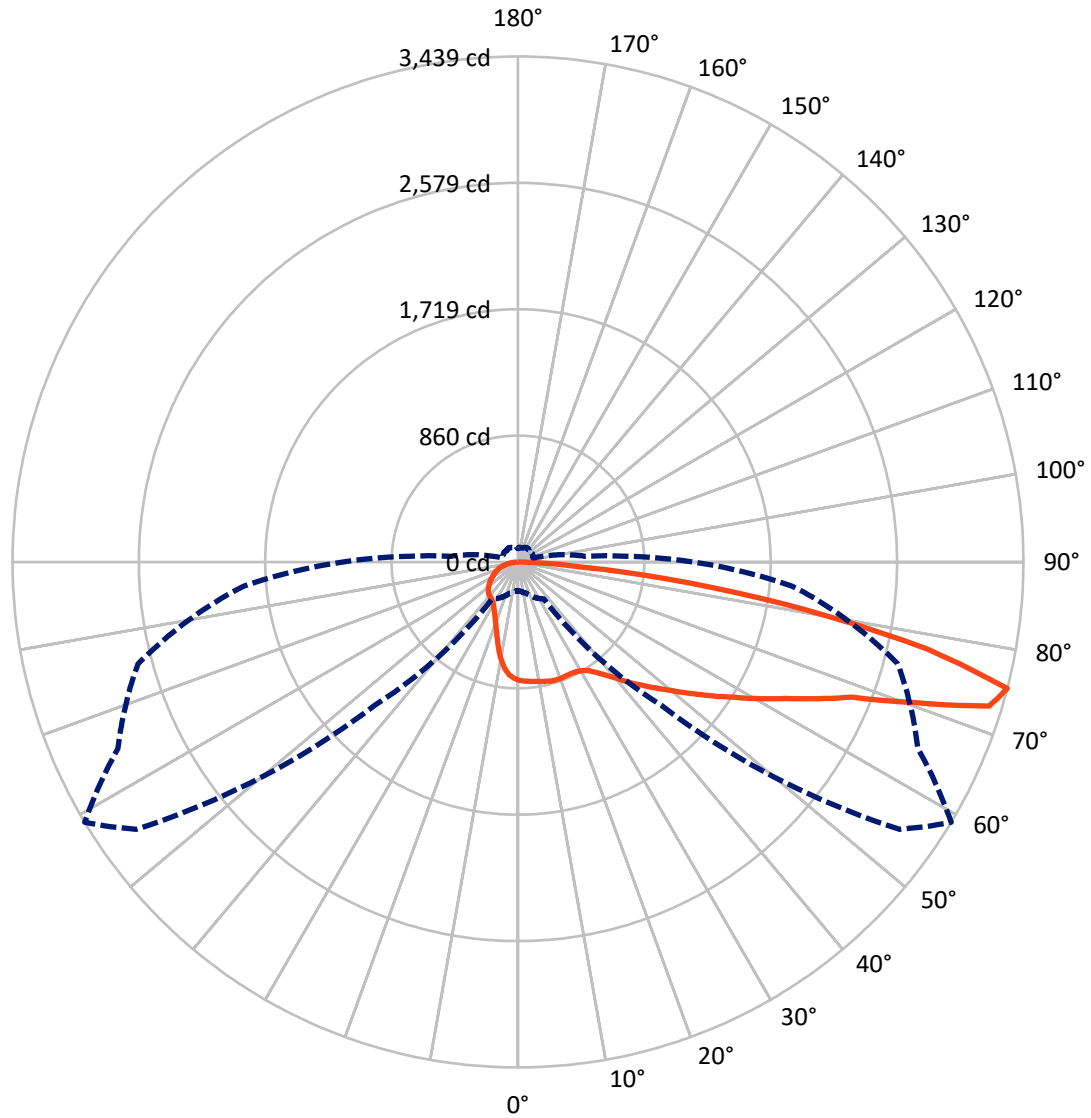
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	822.6	0.0	822.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3563.4	0.0	3563.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	4386.0	0.0	4386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	1.6
10°-20°	184.5	4.2
20°-30°	280.3	6.4
30°-40°	416.6	9.5
40°-50°	619.5	14.1
50°-60°	841.0	19.2
60°-70°	1026.7	23.4
70°-80°	805.7	18.4
80°-90°	139.6	3.2
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°	4386.0	100.0
0°-180°	4386.0	100.0

Coefficient of Utilization



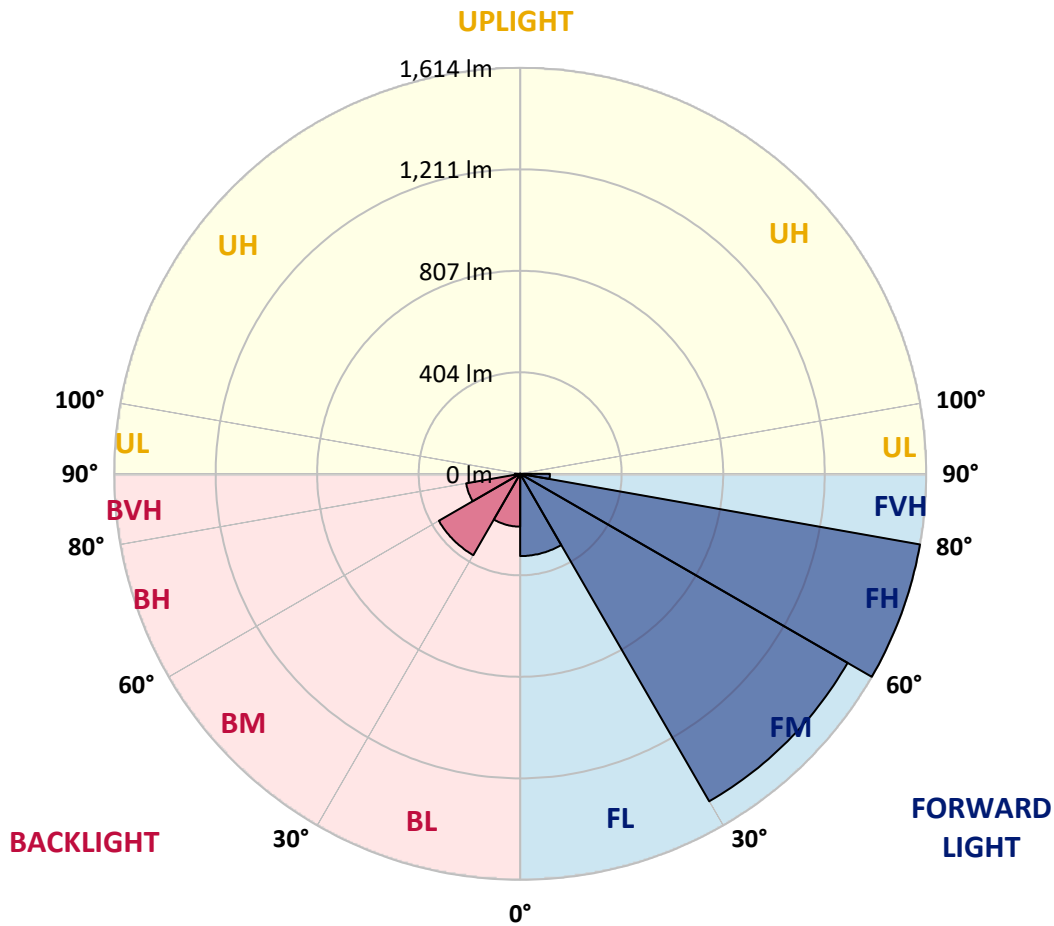
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	327.0	7.5			
FM (30°-60°)	1503.7	34.3			
FH (60°-80°)	1614.4	36.8			G1/1800
FVH (80°-90°)	118.2	2.7			G2/225
BL (0°-30°)	209.9	4.8	B1/500		
BM (30°-60°)	373.4	8.5	B1/1000		
BH (60°-80°)	217.9	5.0	B1/500		G1/500
BVH (80°-90°)	21.4	0.5			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°	45°	55°	59°	65°	75°
0°	805.0	805.0	805.0	805.0	805.0	805.0	805.0	805.0	805.0	805.0
2.5°	811.9	809.1	811.9	810.7	810.2	809.3	809.5	811.2	810.2	811.4
5°	806.5	804.8	807.6	806.9	810.0	810.5	813.5	815.4	816.6	816.8
7.5°	797.5	795.8	799.8	803.2	809.8	811.6	818.0	821.1	822.7	825.6
10°	764.7	764.0	773.9	786.4	802.0	811.6	821.3	826.5	829.1	836.7
12.5°	706.7	707.6	720.6	744.6	775.8	806.9	825.1	832.6	836.7	846.1
15°	651.2	651.0	665.1	690.8	734.5	786.2	827.0	840.0	846.8	860.7
17.5°	619.1	618.2	628.1	647.7	688.2	754.3	822.3	844.0	858.6	876.1
20°	613.2	611.3	616.5	626.2	655.0	719.4	810.0	844.0	868.0	890.7
22.5°	634.7	631.6	629.5	628.3	641.1	690.6	796.1	841.1	882.0	911.7
25°	677.9	673.1	662.3	651.7	647.9	677.6	783.8	840.4	902.7	940.0
27.5°	747.7	741.8	719.9	694.4	671.5	684.2	778.4	844.7	925.6	970.0
30°	834.3	827.9	800.3	761.2	720.1	708.8	785.2	857.2	954.9	1009.8
32.5°	911.9	904.8	881.3	841.4	785.9	751.2	806.9	881.0	1000.9	1065.3
35°	980.8	972.6	951.3	914.5	866.6	810.9	846.1	923.2	1066.2	1155.4
37.5°	1048.3	1038.6	1015.5	976.6	943.1	890.5	900.1	977.5	1153.1	1264.9
40°	1123.8	1109.9	1081.8	1043.3	1010.8	983.7	971.1	1044.1	1241.3	1387.1
42.5°	1196.9	1183.7	1150.2	1117.4	1076.6	1068.8	1053.5	1121.9	1337.8	1521.4
45°	1275.7	1259.9	1219.4	1177.8	1152.1	1125.5	1133.2	1199.8	1432.4	1658.2
47.5°	1349.6	1331.9	1284.0	1237.8	1223.6	1173.1	1206.4	1285.4	1530.8	1796.9
50°	1389.5	1372.0	1332.1	1290.4	1279.3	1231.9	1285.7	1379.6	1633.9	1935.2
52.5°	1422.7	1403.9	1351.7	1328.6	1325.3	1295.8	1383.3	1487.2	1737.0	2057.4
55°	1458.1	1437.1	1370.6	1349.8	1364.9	1367.5	1499.2	1609.1	1846.0	2176.6
57.5°	1499.0	1472.3	1388.8	1367.8	1403.6	1451.5	1632.3	1735.6	1953.1	2287.0
60°	1537.4	1510.5	1423.7	1396.3	1445.4	1549.0	1784.9	1888.7	2074.4	2385.4
62.5°	1545.0	1522.8	1451.5	1451.3	1502.0	1662.7	1965.6	2043.3	2180.4	2482.6
65°	1414.2	1400.3	1358.1	1449.2	1583.2	1826.4	2166.9	2241.0	2315.1	2567.5
67.5°	1076.4	1078.3	1075.2	1251.0	1517.6	2061.7	2458.3	2452.6	2481.4	2662.9
70°	492.2	503.3	575.5	863.6	1215.8	2088.8	2940.1	2866.7	2690.2	2786.3
72.5°	265.9	274.4	303.9	418.3	731.0	1857.1	3300.1	3352.3	2967.9	2869.3
75°	195.1	199.8	220.4	265.9	307.0	1380.3	3171.1	3438.6	3002.6	2675.6
77.5°	146.0	148.2	164.9	210.7	157.1	727.7	2533.8	2847.8	2570.4	2198.3
80°	105.9	108.3	120.8	158.1	110.2	266.1	1739.9	1998.9	1760.4	1401.3
82.5°	73.1	74.1	79.5	107.6	76.9	103.3	987.2	1172.2	982.7	491.7
85°	44.1	45.3	47.7	62.8	43.6	49.1	426.1	440.7	293.8	117.5
87.5°	18.2	19.3	21.2	26.4	17.2	13.7	70.3	88.2	55.0	34.4
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°
805.0	0°	805.0	805.0	805.0	805.0	805.0	805.0	805.0	805.0	805.0	805.0
807.4	2.5°	806.2	804.6	800.1	794.0	788.3	781.2	778.1	775.5	773.2	768.7
813.8	5°	811.2	806.7	794.7	779.1	761.4	742.0	723.2	710.2	699.1	690.8
821.1	7.5°	818.7	810.2	788.3	756.4	715.9	674.3	636.8	610.2	590.1	582.8
831.5	10°	826.5	816.4	778.1	722.0	651.9	588.0	538.2	510.8	494.8	489.6
843.7	12.5°	835.7	820.8	762.3	674.1	580.4	510.3	466.9	450.9	442.6	439.8
858.8	15°	849.2	824.6	738.5	614.2	512.2	453.7	425.6	414.6	410.3	410.1
874.4	17.5°	859.3	825.3	701.5	550.0	459.9	419.5	396.4	392.1	395.0	399.2
889.7	20°	870.6	819.0	652.9	491.5	423.0	389.5	379.9	382.7	389.5	395.7
910.0	22.5°	878.7	807.4	594.1	445.9	391.2	372.3	371.8	377.7	381.5	384.6
933.9	25°	885.7	787.8	531.8	407.7	365.0	361.9	367.1	365.2	362.6	365.2
957.7	27.5°	890.9	756.9	476.1	374.2	346.6	354.9	351.8	347.5	347.3	348.7
985.8	30°	889.3	715.6	430.4	342.4	333.6	341.6	334.3	333.6	332.9	333.6
1028.0	32.5°	889.3	668.7	395.2	320.4	325.4	322.3	321.6	319.9	317.1	316.9
1085.3	35°	894.2	621.7	365.0	308.6	318.5	311.2	311.7	307.7	301.8	298.9
1161.3	37.5°	904.4	584.0	335.0	303.0	306.5	306.3	304.4	297.5	287.1	278.2
1256.2	40°	928.9	572.9	314.5	300.4	300.8	303.7	298.7	285.5	261.9	247.3
1352.4	42.5°	967.4	591.5	310.0	294.0	297.1	299.9	290.2	259.5	242.8	234.1
1453.4	45°	1016.2	624.1	319.7	284.8	288.1	293.0	264.3	249.6	242.1	242.3
1553.5	47.5°	1078.0	658.3	337.6	276.8	275.1	277.9	247.0	238.1	227.7	230.3
1649.5	50°	1149.5	693.0	354.6	265.9	260.7	251.5	235.9	227.4	214.2	208.1
1742.2	52.5°	1226.9	726.5	361.5	252.7	245.1	234.5	228.4	218.0	202.0	191.8
1829.7	55°	1300.3	756.9	353.9	236.9	229.6	221.3	220.4	214.0	196.8	182.6
1907.6	57.5°	1369.7	782.4	335.0	220.8	213.8	208.8	215.2	212.1	190.4	172.2
1981.2	60°	1428.4	799.8	307.7	204.6	199.6	197.0	206.7	205.7	181.4	161.1
2047.3	62.5°	1475.1	806.7	277.5	189.0	187.8	183.1	194.9	194.9	170.1	150.3
2105.3	65°	1511.7	800.1	246.8	173.7	176.0	168.9	180.5	179.1	158.1	140.6
2172.1	67.5°	1544.0	778.4	212.8	158.6	164.0	155.0	165.4	162.1	144.9	130.9
2229.9	70°	1558.4	727.9	174.1	143.5	150.1	141.3	150.3	144.2	130.0	120.6
2166.4	72.5°	1442.8	605.0	137.1	127.6	133.3	126.2	134.0	126.9	114.0	109.7
1870.8	75°	1193.6	454.0	105.5	110.4	114.7	109.2	114.4	109.2	97.4	100.5
1381.9	77.5°	866.9	306.5	80.7	92.3	94.1	91.3	95.8	89.9	79.3	78.6
688.7	80°	431.1	179.6	63.2	72.9	72.2	70.3	75.5	72.7	63.7	67.5
185.9	82.5°	124.8	76.9	46.0	51.2	49.8	50.3	54.0	55.4	83.1	82.3
57.8	85°	39.2	30.2	27.6	28.5	27.1	27.8	31.9	63.2	58.5	34.2
17.9	87.5°	10.1	10.4	6.8	7.3	7.6	9.0	10.1	38.5	18.4	12.0
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>
805.0
766.6
684.0
570.0
481.6
440.5
411.0
400.9
397.8
386.2
366.9
351.1
336.2
319.9
301.8
281.2
249.2
234.1
243.5
236.9
209.8
191.6
182.6
171.3
160.4
149.6
139.7
130.0
118.7
106.2
<i>91.8</i>
75.0
66.8
84.2
37.0
12.7
0.0

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