

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: P946549

Luminaire Tested: **GALN-SB2A-930-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2A-930-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6406 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

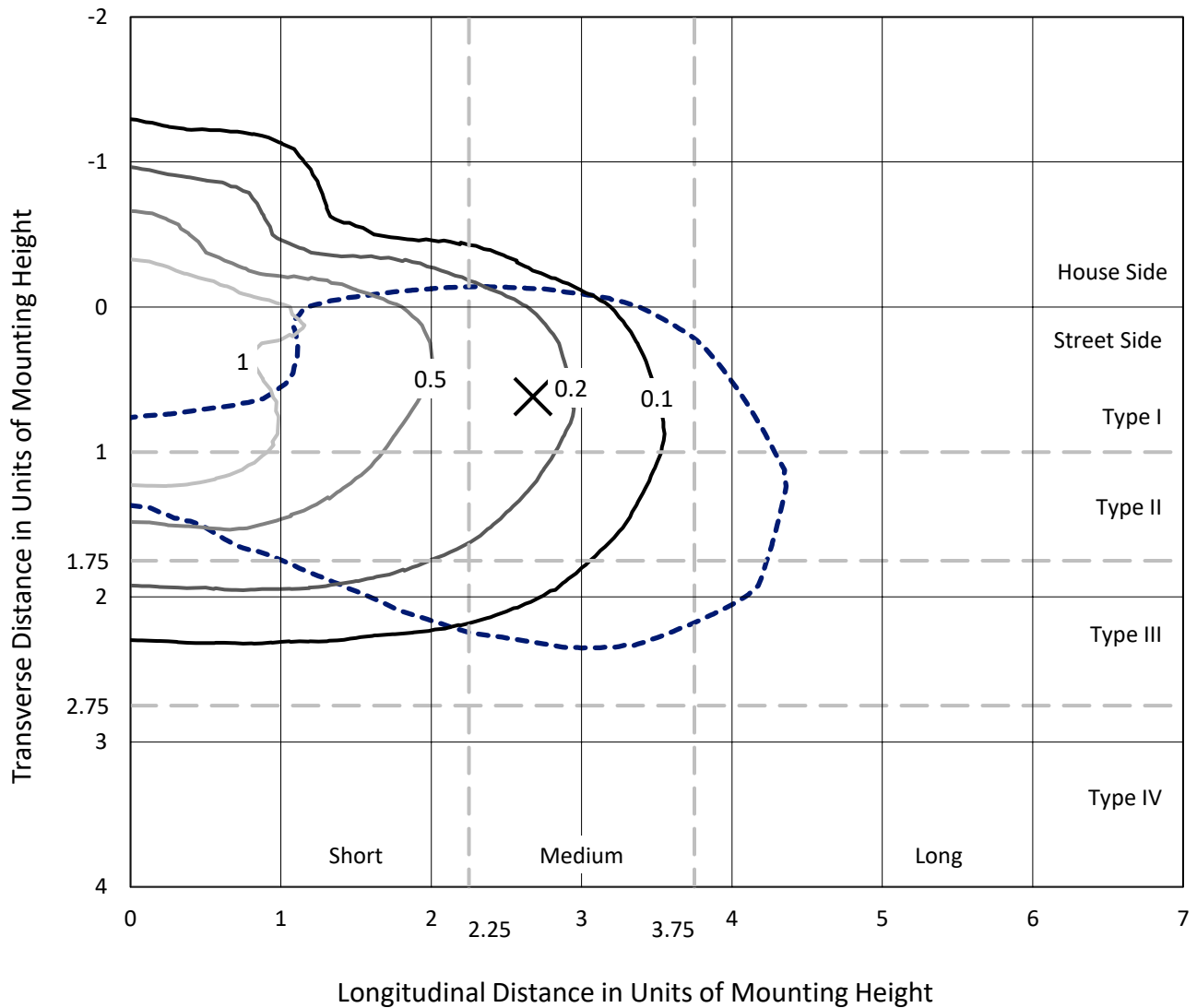
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

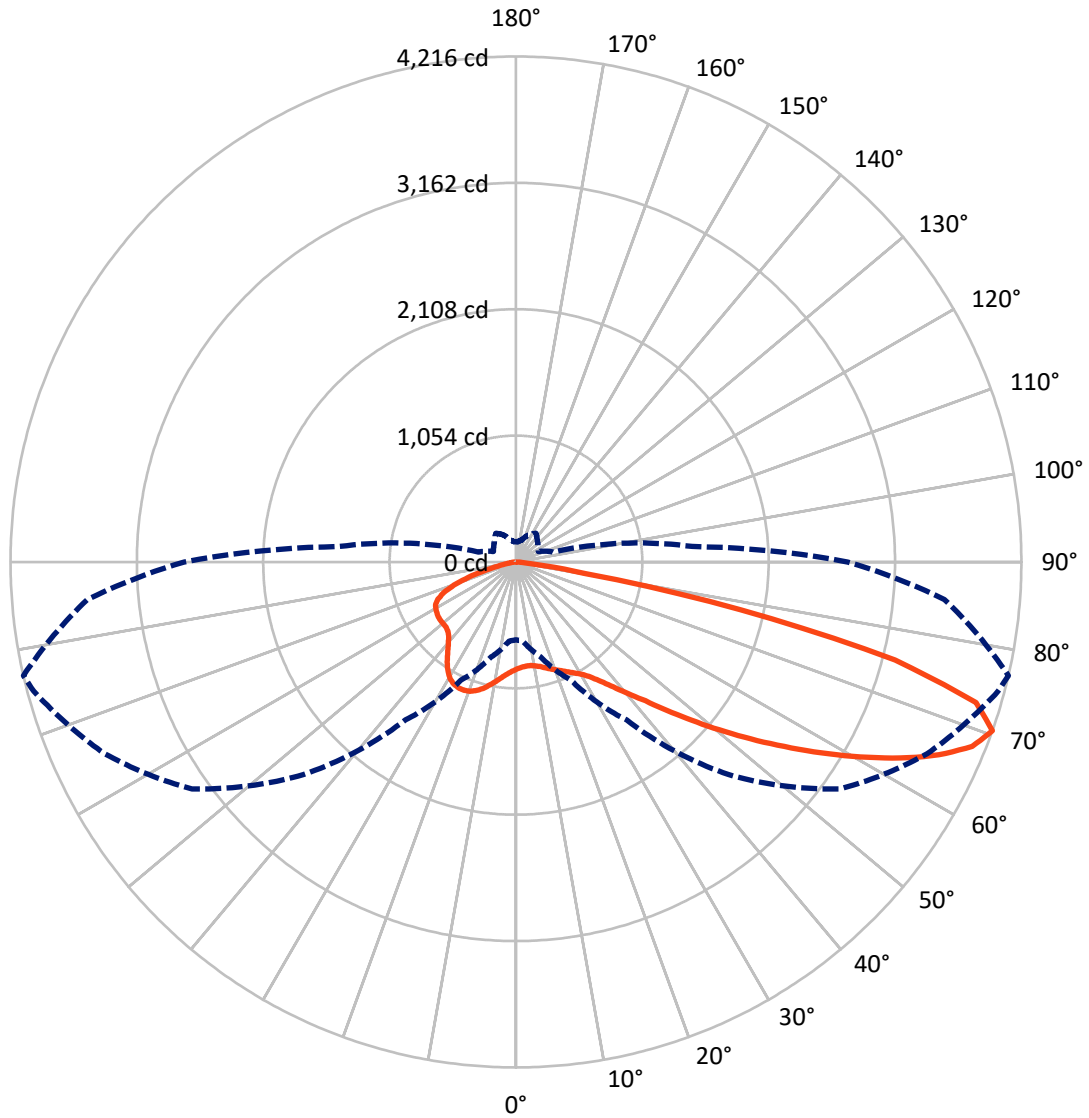
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1402.8	0.0	1402.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	5003.2	0.0	5003.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	6406.0	0.0	6406.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	1.3
10°-20°	246.0	3.8
20°-30°	420.7	6.6
30°-40°	676.5	10.6
40°-50°	1056.2	16.5
50°-60°	1410.8	22.0
60°-70°	1503.7	23.5
70°-80°	925.7	14.5
80°-90°	81.1	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°	6406.0	100.0
0°-180°	6406.0	100.0

Coefficient of Utilization



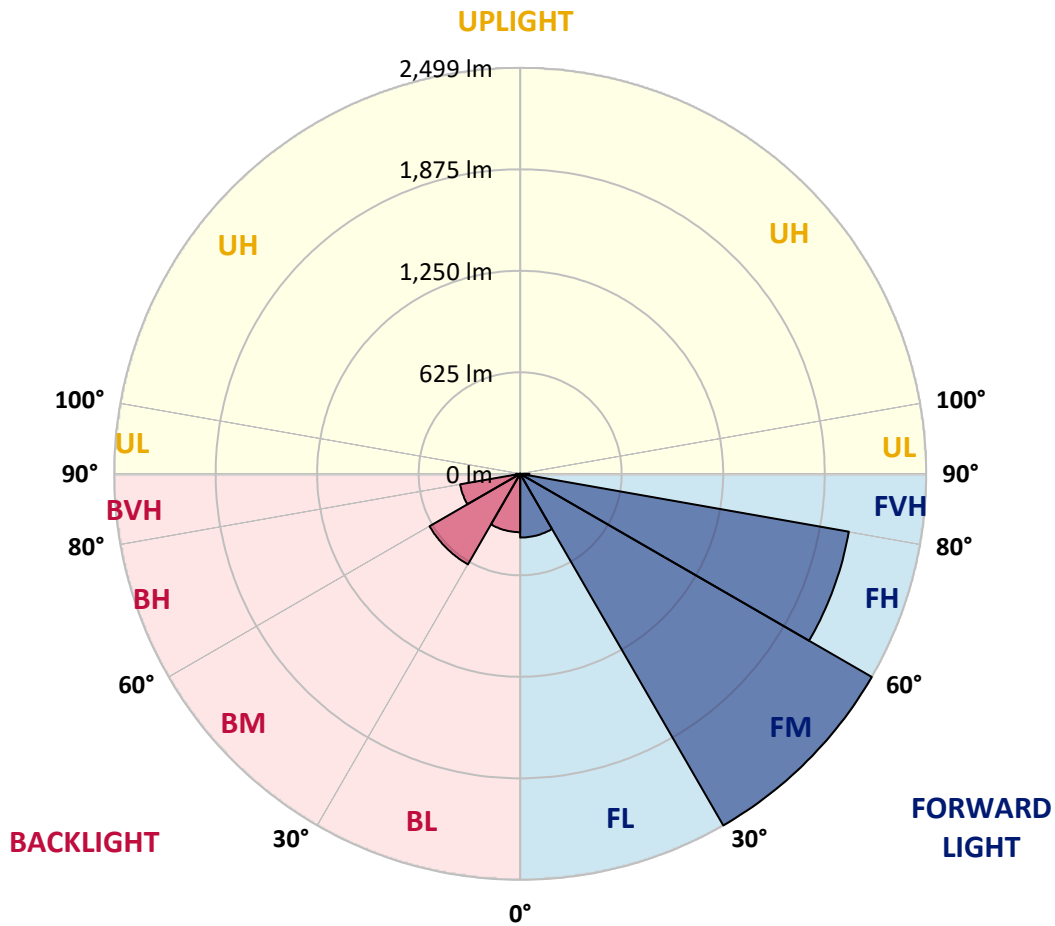
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	392.5	6.1			
FM (30°-60°)	2499.5	39.0			
FH (60°-80°)	2054.5	32.1			G2/5000
FVH (80°-90°)	56.7	0.9			G1/100
BL (0°-30°)	359.4	5.6	B1/500		
BM (30°-60°)	644.1	10.1	B1/1000		
BH (60°-80°)	374.9	5.9	B1/500		G1/500
BVH (80°-90°)	24.4	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	893.7	893.7	893.7	893.7	893.7	893.7	893.7	893.7	893.7	893.7
2.5°	823.8	823.5	827.8	829.1	836.9	842.5	853.0	864.2	878.6	880.2
5°	776.2	776.2	781.2	786.4	796.6	807.7	823.8	843.2	868.1	872.0
7.5°	735.9	738.5	742.8	752.9	764.8	780.8	805.4	833.0	865.8	872.0
10°	703.4	706.4	711.6	719.8	737.5	759.8	792.0	827.4	871.4	881.2
12.5°	693.2	696.2	699.1	705.4	721.8	748.0	786.4	830.0	884.8	894.7
15°	716.9	720.5	718.2	716.5	725.1	749.0	789.0	839.6	901.6	915.7
17.5°	771.3	772.6	767.4	752.0	750.7	763.4	801.5	852.7	922.6	938.0
20°	859.2	857.0	846.1	815.6	798.2	795.6	822.8	872.4	944.2	960.6
22.5°	978.7	976.0	954.4	906.2	867.4	841.9	853.7	898.0	968.5	986.9
25°	1127.6	1124.0	1092.2	1026.6	966.5	903.2	895.7	931.8	998.4	1015.4
27.5°	1301.5	1298.5	1264.1	1177.5	1090.9	987.2	947.8	971.5	1029.5	1048.9
30°	1488.5	1497.0	1436.0	1342.8	1233.3	1096.8	1018.0	1020.3	1069.9	1087.3
32.5°	1708.3	1723.1	1649.6	1531.5	1381.9	1215.9	1106.6	1088.6	1128.6	1143.0
35°	1926.2	1942.9	1881.9	1751.3	1579.1	1356.3	1199.1	1167.0	1206.7	1222.4
37.5°	2114.5	2136.8	2105.3	1991.8	1790.0	1525.6	1319.9	1259.2	1302.8	1322.5
40°	2263.1	2297.2	2294.9	2224.1	2038.7	1731.0	1473.1	1373.0	1422.2	1443.6
42.5°	2383.8	2413.4	2439.0	2435.4	2298.2	1964.2	1653.2	1521.0	1558.4	1583.0
45°	2467.2	2498.7	2553.8	2613.2	2547.9	2213.9	1859.6	1696.5	1730.6	1767.7
47.5°	2541.7	2577.4	2648.9	2743.1	2759.8	2464.6	2085.6	1900.9	1932.1	1970.5
50°	2548.2	2579.1	2689.9	2823.5	2910.4	2705.4	2328.4	2130.2	2159.4	2200.4
52.5°	2389.7	2438.3	2631.9	2821.2	2979.6	2906.8	2569.5	2368.8	2401.6	2450.8
55°	1855.0	1926.2	2461.6	2733.3	2955.0	3037.1	2798.9	2622.4	2664.4	2715.9
57.5°	1597.8	1628.9	1954.1	2573.1	2842.8	3070.8	2992.4	2878.6	2946.2	3002.6
60°	1436.0	1461.9	1654.2	2324.1	2695.2	3017.4	3142.0	3117.4	3234.2	3301.5
62.5°	1262.8	1287.4	1462.3	1940.6	2506.2	2928.5	3236.5	3337.9	3529.5	3603.0
65°	1090.9	1111.9	1279.5	1630.6	2266.1	2839.5	3285.4	3528.5	3802.8	3878.9
67.5°	899.3	916.7	1075.1	1375.6	1974.1	2717.8	3309.7	3678.5	4040.7	4105.9
70°	648.9	662.4	826.1	1087.9	1607.6	2508.5	3299.8	3784.8	4164.0	4216.2
72.5°	306.8	318.9	511.2	706.4	1135.5	2101.0	3100.7	3700.4	4038.7	4012.8
75°	163.7	174.2	293.6	387.5	599.7	1440.3	2537.4	3187.6	3391.4	3265.4
77.5°	110.9	119.1	181.8	232.6	273.9	683.7	1630.9	2207.0	2123.3	1915.3
80°	87.9	96.5	148.9	157.5	132.5	247.0	673.9	1021.6	733.9	586.9
82.5°	67.6	77.1	125.3	114.2	72.2	101.4	196.2	323.2	188.0	143.0
85°	41.3	51.5	98.4	72.8	40.7	46.3	66.6	89.9	57.4	47.9
87.5°	21.0	29.5	49.9	26.6	18.4	10.8	17.7	17.7	15.1	13.1
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°
893.7	0°	893.7	893.7	893.7	893.7	893.7	893.7	893.7	893.7	893.7	893.7
889.1	2.5°	897.0	903.5	914.7	925.2	933.4	941.3	949.1	953.4	954.7	960.0
894.0	5°	907.5	919.6	941.3	961.6	974.4	982.3	987.9	991.1	991.8	993.4
907.5	7.5°	926.8	946.2	976.4	996.7	1006.2	1005.6	1003.3	995.1	991.8	988.8
927.2	10°	954.1	979.7	1016.7	1030.8	1024.9	1009.2	988.8	964.9	953.7	942.9
954.1	12.5°	987.9	1020.3	1056.8	1056.1	1026.9	986.5	939.3	902.6	879.3	862.5
987.2	15°	1028.9	1066.3	1094.2	1071.8	1007.9	935.4	866.1	818.2	797.2	778.9
1020.7	17.5°	1071.2	1111.2	1124.0	1066.9	960.0	859.6	781.2	743.4	722.8	712.9
1056.8	20°	1112.5	1152.2	1141.7	1038.7	887.1	773.6	703.7	683.1	678.8	681.1
1091.9	22.5°	1156.2	1191.6	1145.3	984.2	794.3	685.7	647.3	648.0	657.5	664.4
1128.6	25°	1200.8	1224.7	1135.8	905.5	694.5	621.1	611.5	622.0	640.7	654.2
1169.9	27.5°	1243.8	1254.3	1115.2	808.1	608.9	574.8	576.4	598.1	626.3	645.0
1220.1	30°	1292.3	1280.5	1075.5	698.5	549.5	535.1	548.9	574.1	602.4	619.1
1283.5	32.5°	1347.1	1303.1	1012.5	597.1	507.5	503.3	525.9	542.3	554.8	559.7
1367.4	35°	1415.3	1335.0	931.8	525.9	469.8	480.0	501.6	493.4	488.5	485.9
1480.3	37.5°	1503.9	1377.9	837.3	479.7	439.3	463.3	472.1	446.5	427.2	417.6
1617.1	40°	1610.6	1440.9	746.4	443.9	419.9	448.8	433.4	402.6	378.0	364.5
1771.0	42.5°	1729.0	1506.9	669.9	417.0	409.1	437.0	404.9	368.1	328.4	324.1
1954.4	45°	1853.3	1574.8	617.8	396.3	403.9	426.8	388.4	329.1	300.9	318.2
2138.4	47.5°	1977.7	1637.1	586.3	380.9	401.2	415.4	374.0	307.4	287.4	312.7
2335.6	50°	2116.1	1692.9	572.2	369.7	398.3	410.8	352.4	301.8	273.3	290.0
2539.7	52.5°	2253.6	1736.2	561.7	358.6	394.0	407.1	341.9	295.3	256.2	257.2
2745.1	55°	2390.7	1764.4	550.2	343.8	384.5	399.3	340.9	288.1	243.4	238.8
2962.3	57.5°	2537.1	1780.5	536.1	327.4	368.1	379.3	339.9	282.5	239.5	232.0
3184.4	60°	2686.0	1804.1	517.7	307.4	346.1	355.3	337.6	280.5	237.2	224.4
3393.7	62.5°	2819.5	1812.3	495.7	288.4	317.9	331.7	332.7	278.9	231.0	209.0
3567.6	65°	2907.1	1776.9	457.3	266.7	287.4	307.4	323.2	273.3	219.8	197.8
3653.5	67.5°	2903.5	1675.8	397.3	238.8	257.9	280.5	309.4	263.8	206.4	184.1
3588.6	70°	2768.4	1476.4	321.2	206.4	225.4	251.6	291.7	249.7	190.3	169.0
3190.9	72.5°	2374.3	1155.5	233.3	168.3	187.7	221.8	268.7	232.6	173.9	155.5
2358.3	75°	1696.2	731.3	158.1	129.3	146.0	188.0	240.2	212.6	158.8	156.2
1181.1	77.5°	866.5	349.4	104.7	94.5	101.7	148.3	201.8	190.0	161.1	128.9
336.0	80°	281.8	128.9	65.9	64.3	67.6	98.8	156.2	155.8	122.0	87.6
81.4	82.5°	89.9	55.4	43.0	41.3	39.7	62.0	108.9	123.4	82.3	55.4
29.2	85°	35.8	33.1	25.3	23.3	16.7	29.2	57.1	82.0	61.4	40.0
7.5	87.5°	13.1	13.1	6.9	4.9	3.6	9.8	15.4	24.6	35.1	20.7
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>
893.7
962.9
996.1
989.5
939.6
858.6
776.9
715.9
680.1
666.0
657.8
649.6
623.0
562.3
488.5
419.9
365.5
328.4
327.4
324.5
302.5
264.1
242.1
232.9
225.4
209.0
197.8
185.0
170.9
154.5
147.3
114.8
77.4
55.1
41.0
20.3
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