

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: P946590

Luminaire Tested: **GALN-SB2A-940-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-940-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5412 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

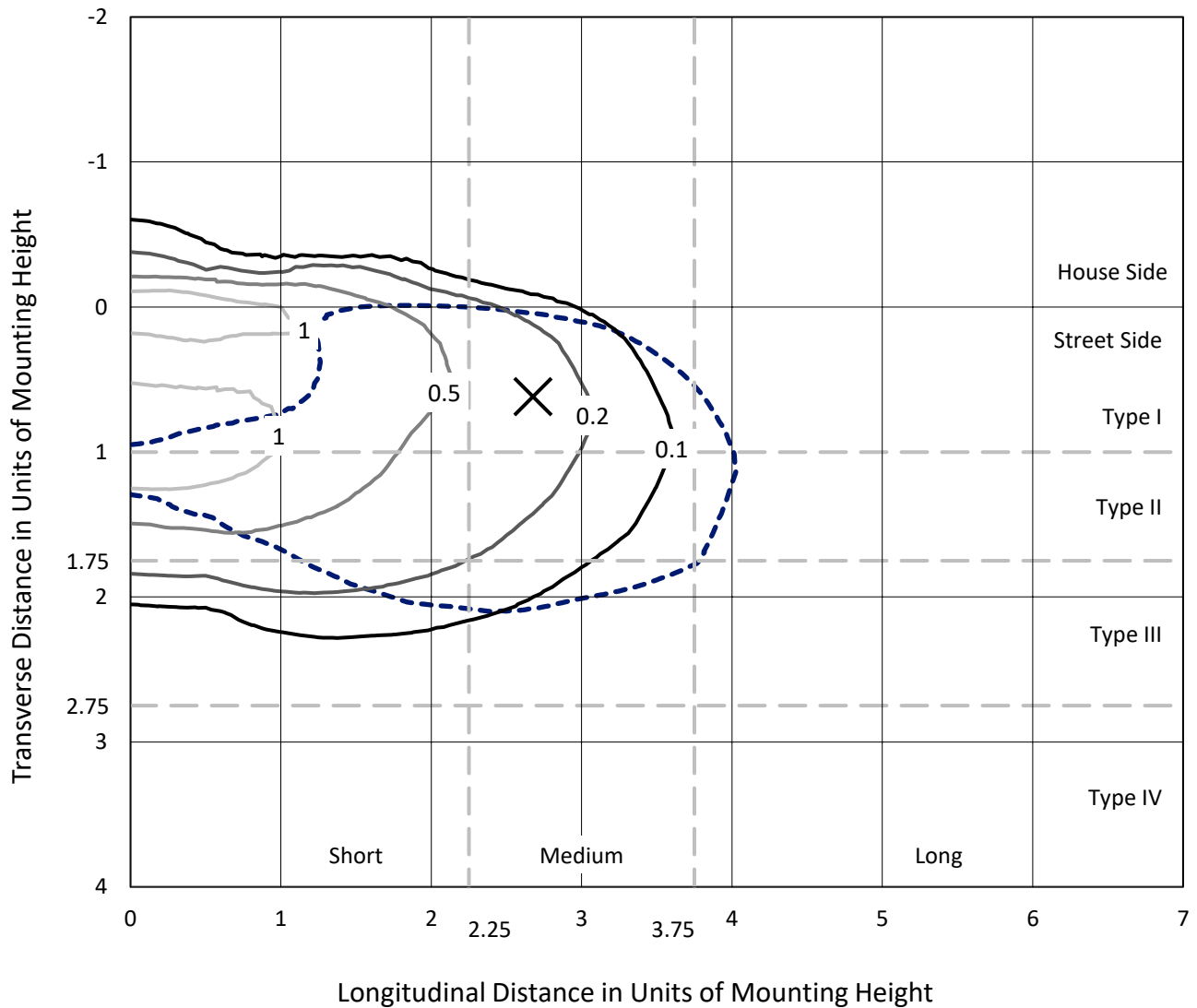
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

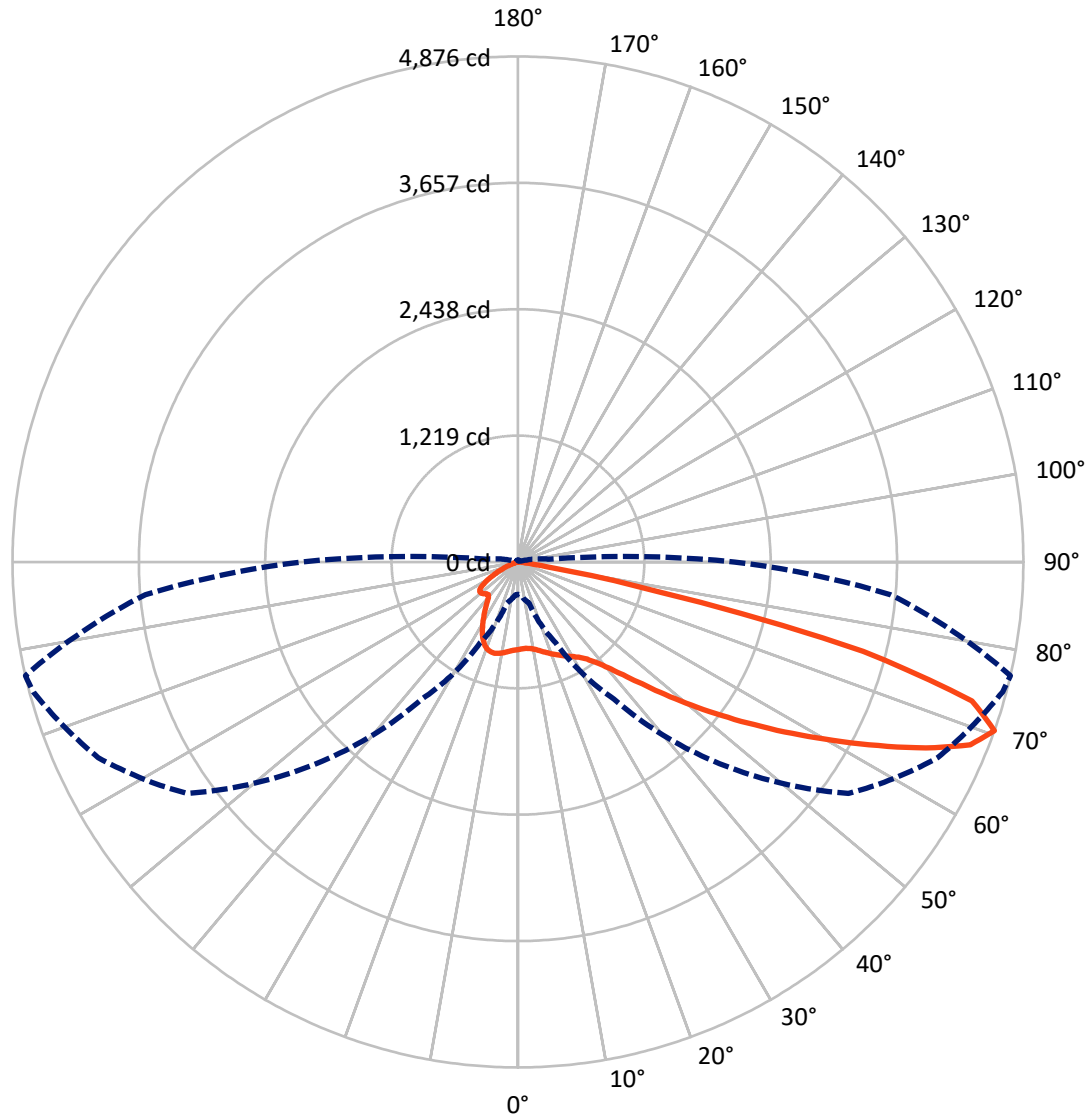
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	570.5	0.0	570.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4841.5	0.0	4841.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	5412.0	0.0	5412.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	1.3
10°-20°	172.7	3.2
20°-30°	267.1	4.9
30°-40°	484.7	9.0
40°-50°	915.0	16.9
50°-60°	1322.1	24.4
60°-70°	1407.3	26.0
70°-80°	745.8	13.8
80°-90°	24.5	0.5
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°	5412.0	100.0
0°-180°	5412.0	100.0

Coefficient of Utilization



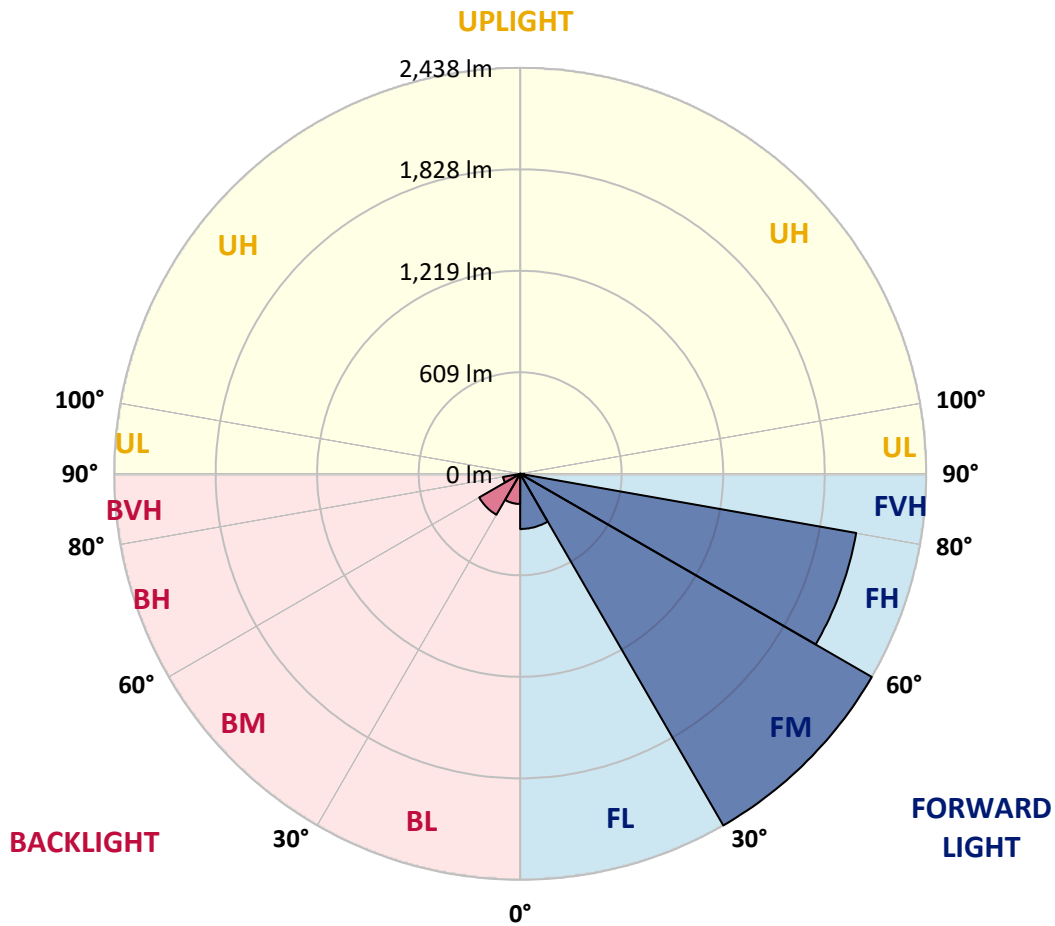
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	331.3	6.1			
FM (30°-60°)	2437.8	45.0			
FH (60°-80°)	2048.5	37.9			G2/5000
FVH (80°-90°)	23.8	0.4			G1/100
BL (0°-30°)	181.3	3.3	B1/500		
BM (30°-60°)	284.0	5.2	B1/1000		
BH (60°-80°)	104.6	1.9	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
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°	844.2	844.2	844.2	844.2	844.2	844.2	844.2	844.2	844.2	844.2
2.5°	792.6	799.7	798.7	803.5	805.2	812.0	818.9	828.1	838.4	838.0
5°	747.8	755.0	756.7	763.2	771.4	782.0	796.0	814.4	833.6	836.7
7.5°	694.8	702.3	706.8	719.8	734.8	756.7	779.6	806.6	838.4	842.8
10°	641.8	648.7	654.5	672.9	696.9	729.3	766.6	805.6	848.3	854.8
12.5°	609.0	615.5	622.0	638.1	667.8	707.5	758.0	810.3	864.7	873.9
15°	597.4	603.2	608.4	622.7	650.4	695.5	756.3	820.3	885.5	897.8
17.5°	599.1	602.2	605.6	616.6	643.6	690.0	759.4	837.3	910.1	921.1
20°	609.0	610.7	611.1	618.6	642.5	689.4	765.6	853.7	933.4	948.1
22.5°	621.7	622.4	621.7	626.8	649.0	694.5	773.8	873.6	959.4	973.0
25°	680.8	667.8	651.4	641.5	660.0	704.4	786.1	900.2	987.7	1001.0
27.5°	864.3	827.1	768.3	702.3	682.5	718.7	803.2	927.2	1016.4	1028.4
30°	1162.4	1113.5	1013.7	865.0	755.0	748.8	825.4	954.2	1046.8	1059.8
32.5°	1461.1	1449.1	1333.9	1128.2	918.0	815.8	862.3	990.8	1087.2	1097.4
35°	1763.2	1738.9	1644.6	1441.2	1169.2	952.2	923.8	1038.6	1140.1	1151.8
37.5°	1994.6	1979.9	1921.4	1754.0	1467.2	1162.7	1029.1	1112.8	1217.0	1230.0
40°	2199.0	2192.1	2172.3	2061.9	1800.4	1438.2	1192.8	1227.6	1323.7	1339.1
42.5°	2359.6	2375.6	2386.9	2356.2	2143.9	1752.6	1412.9	1389.0	1472.3	1488.1
45°	2524.0	2529.4	2574.9	2619.3	2485.0	2081.4	1661.0	1578.0	1657.2	1676.7
47.5°	2629.6	2651.5	2731.4	2809.7	2771.8	2407.4	1927.6	1801.1	1871.5	1908.1
50°	2637.4	2678.8	2788.9	2925.2	2980.6	2717.8	2217.4	2055.4	2130.3	2170.6
52.5°	2506.5	2570.8	2741.3	2940.9	3093.4	2980.6	2517.1	2309.7	2405.7	2458.4
55°	1921.8	2005.9	2562.6	2855.5	3097.8	3179.8	2809.0	2574.6	2712.6	2772.1
57.5°	1674.3	1716.7	2014.7	2707.2	3015.4	3260.2	3072.9	2826.8	3046.5	3120.4
60°	1393.1	1448.8	1689.7	2464.5	2903.7	3268.0	3306.0	3152.2	3408.5	3491.5
62.5°	946.7	1007.2	1246.8	2047.5	2750.9	3264.3	3497.0	3487.1	3810.7	3899.9
65°	586.5	624.4	782.3	1671.9	2537.3	3268.4	3696.9	3893.8	4235.2	4325.8
67.5°	463.4	480.9	563.2	1283.7	2169.2	3176.1	3896.5	4276.2	4634.8	4706.5
70°	311.4	321.9	409.8	860.6	1613.8	2750.2	3892.8	4468.3	4840.5	4876.4
72.5°	164.1	172.3	239.6	398.5	974.7	1954.9	3281.3	4238.6	4635.8	4581.8
75°	82.0	95.7	161.3	202.3	416.3	1090.2	2037.6	3341.8	3648.7	3439.6
77.5°	62.2	75.2	133.3	133.3	144.9	367.1	863.0	1822.7	1681.2	1399.9
80°	39.6	51.3	116.5	100.8	60.5	93.3	224.9	510.6	357.2	271.7
82.5°	23.2	33.5	97.1	66.6	33.8	34.5	63.6	108.7	92.6	72.1
85°	9.2	21.9	66.6	26.3	13.3	8.5	19.1	23.2	19.1	14.4
87.5°	0.0	5.1	11.6	0.0	1.0	0.7	1.4	1.7	1.7	1.4
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°
844.2	0°	844.2	844.2	844.2	844.2	844.2	844.2	844.2	844.2	844.2	844.2
844.9	2.5°	847.9	848.6	850.7	851.0	846.2	840.1	837.7	836.7	832.6	832.2
850.3	5°	858.2	861.3	858.2	849.3	828.1	798.4	775.8	757.4	740.6	735.5
869.1	7.5°	878.7	881.8	872.5	837.7	784.4	725.2	671.9	634.3	600.5	587.8
892.0	10°	908.1	912.2	883.1	812.7	718.4	623.4	533.2	469.6	420.0	399.9
923.1	12.5°	945.0	946.7	888.9	774.8	632.6	496.9	369.1	301.1	257.0	240.6
960.7	15°	985.7	983.3	889.6	723.2	515.7	351.3	240.9	197.9	180.1	174.6
998.3	17.5°	1028.4	1018.5	876.0	648.7	387.6	240.3	178.7	168.5	165.4	164.1
1035.6	20°	1070.4	1048.2	851.0	551.3	278.2	179.4	162.3	159.3	157.6	156.9
1073.2	22.5°	1108.7	1070.8	808.3	438.2	202.0	158.6	153.5	150.7	147.6	146.3
1109.7	25°	1146.0	1083.8	748.1	332.5	161.7	148.3	144.2	139.1	135.0	133.3
1149.0	27.5°	1182.2	1092.0	672.9	246.1	144.2	138.8	131.2	124.1	121.0	120.3
1191.1	30°	1220.8	1094.7	587.5	183.5	133.6	126.8	115.9	107.7	105.9	106.3
1247.8	32.5°	1268.0	1098.8	501.4	150.4	124.7	112.4	99.5	90.9	89.5	90.9
1330.5	35°	1324.4	1107.0	418.3	138.4	116.9	97.7	83.7	76.6	75.2	76.2
1436.5	37.5°	1400.9	1120.3	340.7	136.0	110.4	85.4	70.4	64.6	64.6	64.9
1566.3	40°	1502.8	1155.9	271.4	134.3	107.0	76.2	59.5	57.1	58.1	58.8
1731.8	42.5°	1626.8	1231.4	224.5	132.3	103.2	72.1	54.0	53.0	54.7	55.4
1930.0	45°	1765.9	1327.1	208.1	128.8	99.8	74.8	51.6	50.2	52.3	52.6
2152.1	47.5°	1909.8	1420.7	206.1	125.1	96.4	78.9	50.9	47.8	50.2	50.6
2389.3	50°	2055.4	1481.9	208.1	119.3	90.9	78.9	51.3	45.5	47.5	48.5
2635.4	52.5°	2202.0	1509.9	206.8	106.6	81.3	74.2	51.3	43.4	45.5	46.1
2901.3	55°	2344.2	1504.5	185.9	87.8	69.0	65.6	49.9	41.7	43.1	43.4
3152.5	57.5°	2456.6	1428.3	147.3	68.4	56.1	54.7	45.5	39.6	40.7	40.3
3382.8	60°	2515.4	1260.8	105.3	52.6	44.1	43.1	40.0	36.9	37.6	35.9
3578.0	62.5°	2516.1	1039.3	70.4	41.7	35.2	34.2	34.2	33.2	32.5	29.1
3729.1	65°	2462.5	793.6	46.8	33.2	28.4	26.7	28.7	28.4	26.0	21.2
3775.2	67.5°	2340.8	520.2	35.5	26.0	21.9	20.8	22.9	23.9	22.2	17.8
3607.1	70°	2090.6	302.8	29.4	20.2	16.4	15.4	18.5	20.5	18.5	14.4
3083.1	72.5°	1736.5	163.4	23.9	15.0	11.3	10.3	14.7	16.7	14.7	10.6
1978.2	75°	1126.8	87.5	18.5	9.9	5.8	6.5	10.9	12.3	10.3	6.8
580.7	77.5°	378.3	38.6	11.6	4.8	2.7	2.7	6.5	7.5	4.8	2.4
105.6	80°	84.4	16.1	4.8	2.1	1.0	1.0	1.4	1.4	0.7	0.0
32.5	82.5°	27.7	6.5	2.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0
8.2	85°	10.6	2.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.7	87.5°	4.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

180°
844.2
832.9
732.4
582.7
391.3
235.5
174.6
163.7
156.2
145.9
132.6
119.6
106.3
90.6
75.9
64.6
58.8
55.4
53.0
50.9
48.9
46.1
43.4
40.3
35.5
28.0
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