

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: P945373

Luminaire Tested: **GALN-SB1B-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945373
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-SB1B-830-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5196 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

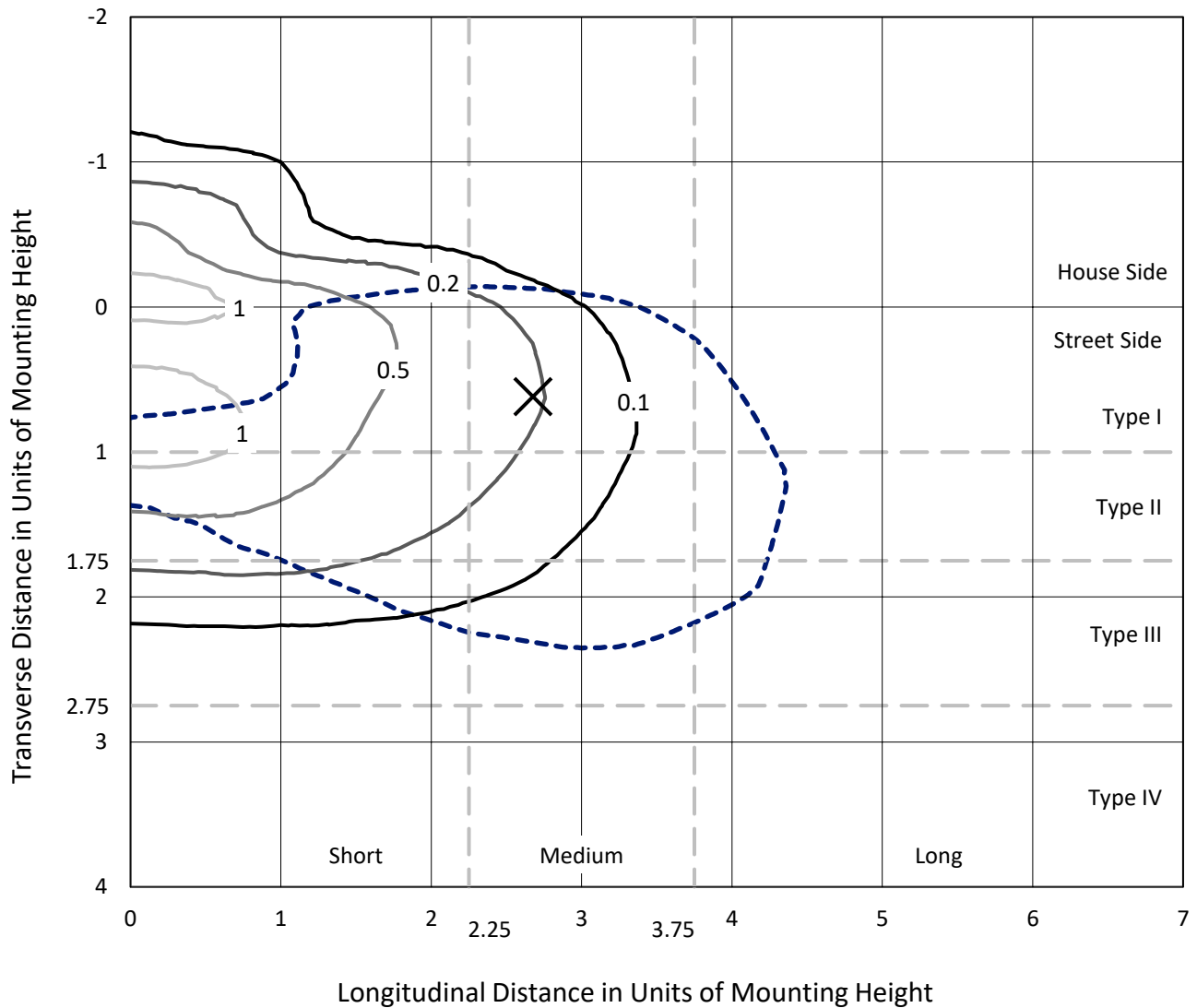
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

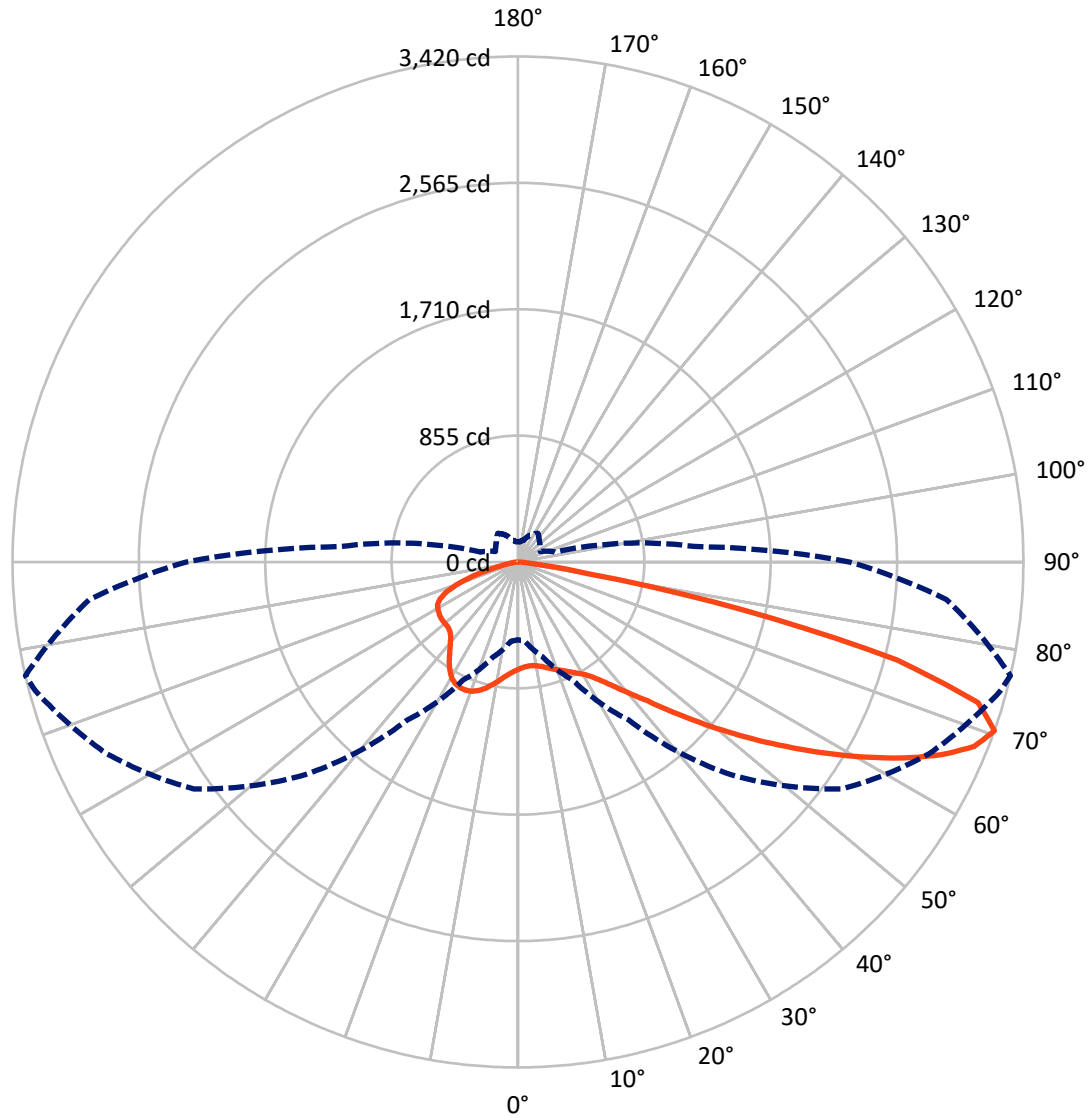
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	1137.8	0.0	1137.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	4058.2	0.0	4058.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	5196.0	0.0	5196.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	1.3
10°-20°	199.5	3.8
20°-30°	341.2	6.6
30°-40°	548.7	10.6
40°-50°	856.7	16.5
50°-60°	1144.4	22.0
60°-70°	1219.7	23.5
70°-80°	750.8	14.5
80°-90°	65.8	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°	5196.0	100.0
0°-180°	5196.0	100.0

Coefficient of Utilization



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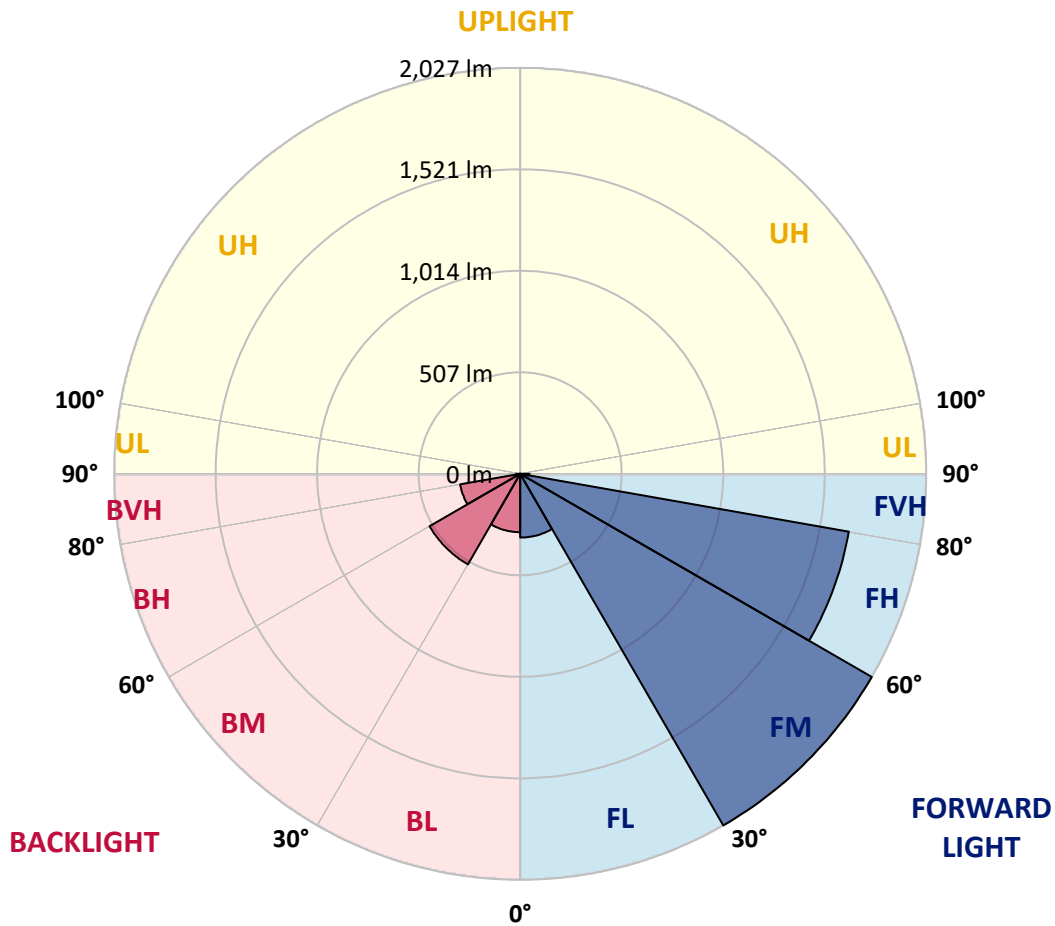
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	318.3	6.1			
FM (30°-60°)	2027.4	39.0			
FH (60°-80°)	1666.4	32.1			G1/1800
FVH (80°-90°)	46.0	0.9			G1/100
BL (0°-30°)	291.6	5.6	B1/500		
BM (30°-60°)	522.4	10.1	B1/1000		
BH (60°-80°)	304.1	5.9	B1/500		G1/500
BVH (80°-90°)	19.8	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-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	724.9	724.9	724.9	724.9	724.9	724.9	724.9	724.9	724.9	724.9
2.5°	668.2	667.9	671.4	672.5	678.9	683.4	691.9	700.9	712.6	714.0
5°	629.6	629.6	633.6	637.9	646.1	655.2	668.2	683.9	704.1	707.3
7.5°	596.9	599.0	602.5	610.7	620.3	633.3	653.3	675.7	702.3	707.3
10°	570.5	572.9	577.2	583.8	598.2	616.3	642.4	671.1	706.8	714.8
12.5°	562.3	564.7	567.1	572.1	585.4	606.7	637.9	673.3	717.7	725.7
15°	581.5	584.4	582.5	581.2	588.1	607.5	640.0	681.0	731.3	742.7
17.5°	625.6	626.7	622.4	609.9	608.9	619.2	650.1	691.6	748.3	760.8
20°	696.9	695.1	686.3	661.6	647.5	645.3	667.4	707.6	765.9	779.2
22.5°	793.8	791.7	774.1	735.0	703.6	682.8	692.4	728.3	785.6	800.5
25°	914.6	911.7	885.9	832.7	784.0	732.6	726.5	755.8	809.8	823.6
27.5°	1055.7	1053.3	1025.3	955.1	884.8	800.7	768.8	788.0	835.1	850.8
30°	1207.4	1214.3	1164.8	1089.2	1000.3	889.6	825.7	827.6	867.8	881.9
32.5°	1385.6	1397.6	1338.0	1242.2	1120.9	986.2	897.6	883.0	915.4	927.1
35°	1562.3	1575.9	1526.4	1420.5	1280.8	1100.1	972.6	946.6	978.8	991.5
37.5°	1715.1	1733.2	1707.6	1615.6	1451.9	1237.4	1070.6	1021.3	1056.7	1072.7
40°	1835.6	1863.3	1861.5	1804.0	1653.6	1404.0	1194.8	1113.7	1153.6	1170.9
42.5°	1933.6	1957.5	1978.3	1975.4	1864.1	1593.2	1340.9	1233.7	1264.0	1284.0
45°	2001.2	2026.7	2071.4	2119.6	2066.6	1795.7	1508.3	1376.1	1403.7	1433.8
47.5°	2061.6	2090.6	2148.6	2225.0	2238.5	1999.0	1691.7	1541.9	1567.1	1598.3
50°	2066.9	2091.9	2181.9	2290.2	2360.7	2194.4	1888.6	1727.9	1751.5	1784.8
52.5°	1938.4	1977.7	2134.8	2288.3	2416.8	2357.8	2084.2	1921.3	1947.9	1987.9
55°	1504.6	1562.3	1996.6	2217.0	2396.9	2463.4	2270.2	2127.0	2161.1	2202.9
57.5°	1296.0	1321.2	1585.0	2087.1	2305.9	2490.8	2427.2	2334.9	2389.7	2435.5
60°	1164.8	1185.8	1341.7	1885.1	2186.1	2447.4	2548.6	2528.6	2623.3	2677.9
62.5°	1024.3	1044.2	1186.1	1574.1	2032.8	2375.3	2625.2	2707.4	2862.8	2922.4
65°	884.8	901.9	1037.8	1322.6	1838.0	2303.2	2664.8	2862.0	3084.5	3146.2
67.5°	729.4	743.5	872.0	1115.8	1601.2	2204.5	2684.5	2983.6	3277.4	3330.4
70°	526.4	537.3	670.1	882.4	1303.9	2034.7	2676.6	3069.9	3377.5	3419.8
72.5°	248.8	258.7	414.6	572.9	921.0	1704.2	2515.0	3001.5	3275.8	3254.8
75°	132.8	141.3	238.2	314.3	486.5	1168.2	2058.1	2585.5	2750.8	2648.6
77.5°	89.9	96.6	147.4	188.7	222.2	554.6	1322.8	1790.1	1722.3	1553.6
80°	71.3	78.2	120.8	127.7	107.5	200.4	546.6	828.7	595.3	476.1
82.5°	54.8	62.5	101.7	92.6	58.5	82.2	159.1	262.1	152.5	116.0
85°	33.5	41.8	79.8	59.1	33.0	37.5	54.0	72.9	46.6	38.9
87.5°	17.0	24.0	40.4	21.6	14.9	8.8	14.4	14.4	12.2	10.6
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°
724.9	0°	724.9	724.9	724.9	724.9	724.9	724.9	724.9	724.9	724.9	724.9
721.2	2.5°	727.6	732.9	741.9	750.4	757.1	763.5	769.9	773.3	774.4	778.6
725.2	5°	736.1	745.9	763.5	780.0	790.4	796.7	801.3	803.9	804.5	805.8
736.1	7.5°	751.8	767.5	791.9	808.4	816.2	815.6	813.8	807.1	804.5	802.1
752.0	10°	773.9	794.6	824.7	836.1	831.3	818.6	802.1	782.6	773.6	764.8
773.9	12.5°	801.3	827.6	857.1	856.6	832.9	800.2	761.9	732.1	713.2	699.6
800.7	15°	834.5	864.9	887.5	869.4	817.5	758.7	702.5	663.7	646.7	631.8
827.9	17.5°	868.9	901.3	911.7	865.4	778.6	697.2	633.6	603.0	586.2	578.3
857.1	20°	902.4	934.6	926.1	842.5	719.6	627.5	570.8	554.0	550.6	552.4
885.6	22.5°	937.8	966.5	929.0	798.3	644.3	556.2	525.0	525.6	533.3	538.9
915.4	25°	974.0	993.4	921.3	734.5	563.4	503.8	496.0	504.5	519.7	530.6
949.0	27.5°	1008.8	1017.3	904.5	655.4	493.9	466.2	467.6	485.1	508.0	523.2
989.7	30°	1048.2	1038.6	872.3	566.6	445.7	434.0	445.2	465.7	488.6	502.2
1041.0	32.5°	1092.7	1057.0	821.2	484.3	411.7	408.2	426.6	439.9	450.0	454.0
1109.2	35°	1148.0	1082.8	755.8	426.6	381.1	389.3	406.9	400.2	396.2	394.1
1200.7	37.5°	1219.9	1117.7	679.1	389.1	356.3	375.8	382.9	362.2	346.5	338.8
1311.7	40°	1306.3	1168.8	605.4	360.0	340.6	364.0	351.5	326.5	306.6	295.7
1436.5	42.5°	1402.4	1222.3	543.4	338.2	331.8	354.5	328.4	298.6	266.4	262.9
1585.2	45°	1503.3	1277.3	501.1	321.5	327.6	346.2	315.1	266.9	244.0	258.1
1734.5	47.5°	1604.1	1327.9	475.5	309.0	325.5	336.9	303.4	249.3	233.1	253.6
1894.5	50°	1716.4	1373.1	464.1	299.9	323.1	333.2	285.8	244.8	221.7	235.2
2060.0	52.5°	1827.9	1408.3	455.6	290.9	319.6	330.2	277.3	239.5	207.8	208.6
2226.6	55°	1939.2	1431.2	446.3	278.9	311.9	323.9	276.5	233.6	197.5	193.7
2402.7	57.5°	2057.8	1444.2	434.8	265.6	298.6	307.6	275.7	229.1	194.3	188.1
2582.9	60°	2178.7	1463.4	419.9	249.3	280.7	288.2	273.8	227.5	192.4	182.0
2752.7	62.5°	2287.0	1470.0	402.1	233.9	257.9	269.0	269.8	226.2	187.3	169.5
2893.7	65°	2358.0	1441.3	371.0	216.3	233.1	249.3	262.1	221.7	178.3	160.5
2963.4	67.5°	2355.1	1359.3	322.3	193.7	209.2	227.5	250.9	214.0	167.4	149.3
2910.7	70°	2245.5	1197.5	260.5	167.4	182.8	204.1	236.6	202.5	154.3	137.0
2588.2	72.5°	1925.9	937.2	189.2	136.5	152.2	179.9	217.9	188.7	141.0	126.1
1912.8	75°	1375.8	593.2	128.3	104.8	118.4	152.5	194.8	172.4	128.8	126.7
958.0	77.5°	702.8	283.4	84.9	76.6	82.5	120.3	163.7	154.1	130.7	104.6
272.5	80°	228.6	104.6	53.5	52.2	54.8	80.1	126.7	126.4	99.0	71.1
66.0	82.5°	72.9	45.0	34.9	33.5	32.2	50.3	88.3	100.1	66.8	45.0
23.7	85°	29.0	26.9	20.5	18.9	13.6	23.7	46.3	66.5	49.8	32.5
6.1	87.5°	10.6	10.6	5.6	4.0	2.9	8.0	12.5	20.0	28.5	16.8
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>
724.9
781.0
807.9
802.6
762.1
696.4
630.2
580.7
551.7
540.2
533.6
526.9
505.3
456.1
396.2
340.6
296.4
266.4
265.6
263.2
245.4
214.2
196.4
188.9
182.8
169.5
160.5
150.1
138.6
125.3
119.5
93.1
62.8
44.7
33.3
16.5
0.0

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