

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: P939547

Luminaire Tested: **GALN-SB2A-940-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
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-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6505 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

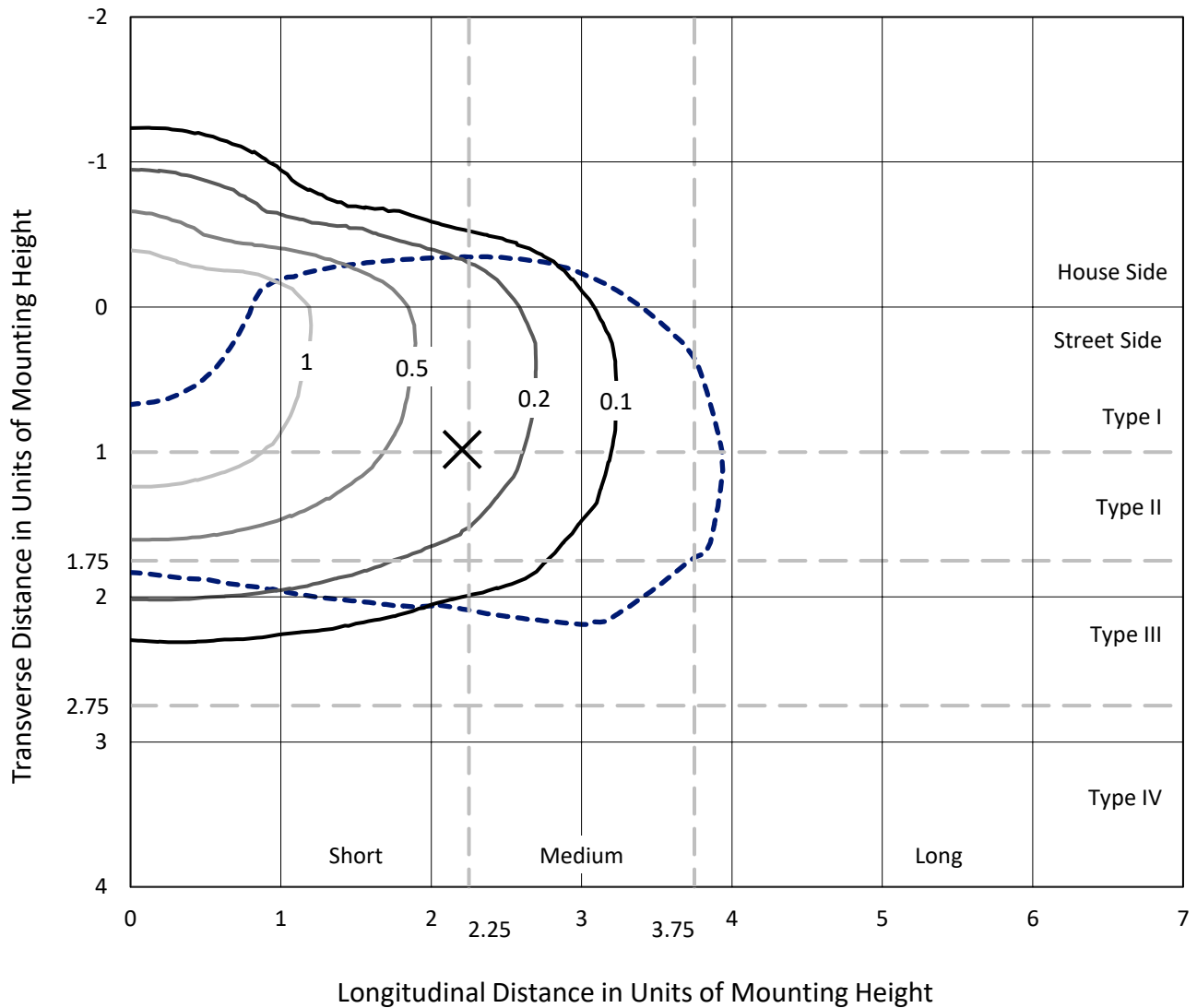
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

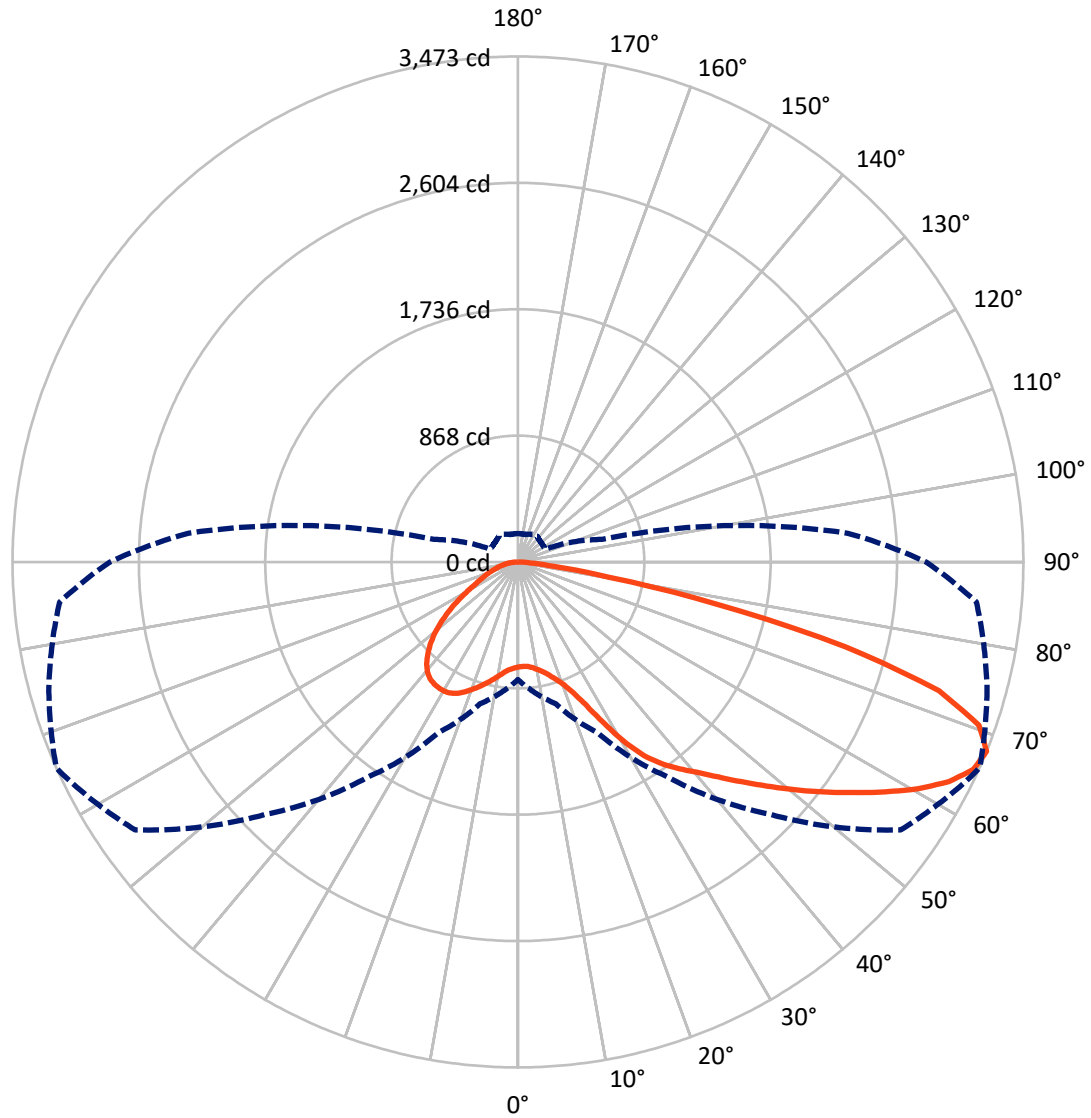
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1617.4	0.0	1617.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	4887.5	0.0	4887.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	6505.0	0.0	6505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	1.1
10°-20°	236.3	3.6
20°-30°	455.5	7.0
30°-40°	798.7	12.3
40°-50°	1187.4	18.3
50°-60°	1505.2	23.1
60°-70°	1472.8	22.6
70°-80°	702.5	10.8
80°-90°	75.1	1.2
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°	6505.0	100.0
0°-180°	6505.0	100.0

Coefficient of Utilization



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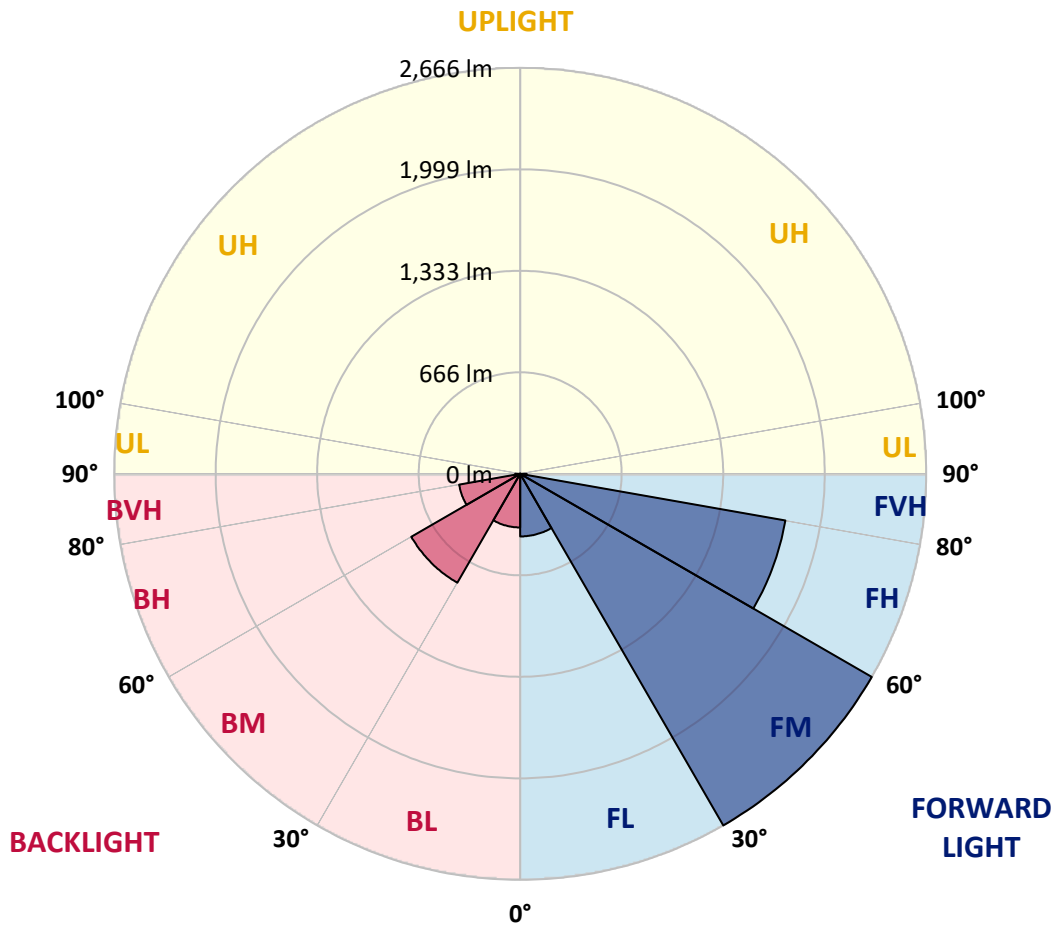
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	411.1	6.3			
FM (30°-60°)	2665.7	41.0			
FH (60°-80°)	1768.2	27.2			G1/1800
FVH (80°-90°)	42.6	0.7			G1/100
BL (0°-30°)	352.3	5.4	B1/500		
BM (30°-60°)	825.6	12.7	B1/1000		
BH (60°-80°)	407.0	6.3	B1/500		G1/500
BVH (80°-90°)	32.5	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5
2.5°	714.0	718.1	717.0	715.3	715.0	715.7	716.7	717.7	717.4	719.1
5°	711.9	716.0	715.7	715.7	717.0	719.8	721.5	723.2	721.5	723.5
7.5°	713.3	716.4	717.7	719.1	722.5	727.6	731.7	735.5	733.5	735.8
10°	730.7	733.1	734.5	734.5	736.9	742.7	746.8	753.6	751.9	755.7
12.5°	762.5	764.9	764.9	763.5	765.2	769.0	770.4	777.9	774.8	781.0
15°	801.5	806.3	802.5	800.1	800.8	804.5	804.2	810.0	806.9	812.1
17.5°	844.5	850.7	844.5	844.2	842.8	846.9	847.3	852.4	846.9	850.7
20°	895.5	904.0	898.9	900.6	897.5	899.2	900.9	908.4	899.9	902.6
22.5°	967.2	977.5	972.0	978.5	976.5	975.1	974.7	988.1	974.7	975.8
25°	1071.8	1084.1	1074.5	1083.4	1083.4	1087.9	1093.0	1110.1	1087.9	1081.4
27.5°	1226.3	1238.6	1219.8	1225.3	1223.6	1234.5	1229.0	1271.4	1247.5	1236.9
30°	1412.2	1434.1	1398.5	1397.2	1395.5	1412.9	1420.8	1448.8	1424.5	1413.9
32.5°	1613.2	1636.1	1593.7	1581.4	1574.9	1585.5	1579.0	1601.6	1584.8	1568.4
35°	1825.8	1848.3	1808.0	1784.1	1758.1	1735.9	1712.6	1718.5	1702.7	1677.8
37.5°	2026.7	2068.1	2025.4	1999.7	1951.9	1908.5	1843.5	1816.5	1801.8	1778.9
40°	2231.5	2255.0	2222.6	2200.7	2148.7	2080.7	1976.8	1919.8	1899.9	1877.7
42.5°	2382.2	2404.7	2387.3	2372.3	2331.6	2252.6	2118.3	2046.9	2018.2	1993.2
45°	2501.8	2518.6	2507.6	2513.1	2495.7	2419.1	2265.0	2183.3	2153.5	2123.1
47.5°	2550.0	2567.8	2585.2	2617.7	2647.4	2591.0	2422.5	2330.9	2299.5	2268.4
50°	2544.5	2562.6	2613.2	2682.3	2774.5	2755.7	2588.6	2488.1	2459.1	2423.5
52.5°	2500.8	2521.3	2586.2	2701.1	2848.0	2879.1	2757.8	2650.5	2623.1	2580.8
55°	2385.9	2398.2	2495.7	2658.3	2865.5	2965.3	2923.6	2823.4	2796.1	2736.9
57.5°	2173.0	2190.8	2332.6	2543.2	2821.7	3023.7	3069.2	3005.2	2978.9	2893.8
60°	1895.2	1923.5	2085.9	2349.7	2710.3	3023.4	3201.4	3184.0	3162.1	3048.3
62.5°	1580.7	1613.5	1769.7	2076.3	2515.5	2937.6	3284.1	3333.7	3322.4	3190.8
65°	1214.0	1236.5	1392.1	1722.6	2212.3	2753.4	3293.7	3435.9	3437.9	3299.2
67.5°	808.3	873.2	1008.2	1292.6	1806.3	2452.2	3209.6	3452.6	3472.5	3336.4
70°	394.4	479.9	612.1	840.1	1292.6	1990.5	2989.9	3315.2	3359.3	3227.7
72.5°	163.7	191.4	263.5	414.6	742.0	1343.2	2548.3	2942.7	3024.4	2860.0
75°	110.4	119.6	150.7	212.6	338.0	662.4	1837.7	2194.2	2325.8	2160.0
77.5°	85.1	90.9	109.7	148.7	201.0	250.5	983.6	1322.3	1390.3	1287.1
80°	67.0	71.4	82.0	108.3	142.5	134.0	335.3	599.1	638.4	535.6
82.5°	58.1	59.8	58.8	73.5	94.7	78.3	110.1	221.1	244.0	177.0
85°	42.0	46.8	48.9	45.5	50.2	39.6	45.1	78.3	86.1	76.9
87.5°	17.1	25.3	31.1	29.4	18.5	11.3	14.0	22.9	26.3	28.7
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°
721.5	0°	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5	721.5
721.8	2.5°	722.2	724.6	726.3	728.3	729.7	731.7	735.8	738.2	738.6	740.3
727.3	5°	728.7	732.1	735.8	741.3	747.5	752.6	760.5	765.9	768.0	769.7
740.6	7.5°	742.7	747.5	754.3	763.9	772.8	779.6	789.2	795.7	802.1	804.5
761.8	10°	763.5	770.4	780.3	793.3	802.8	811.7	821.6	827.1	833.6	836.3
787.1	12.5°	789.5	796.7	809.7	827.8	836.7	842.8	846.2	844.9	846.2	848.6
817.5	15°	819.2	827.1	841.8	861.3	867.4	862.0	854.4	847.6	846.6	847.3
854.4	17.5°	854.4	860.3	877.3	893.7	889.3	866.7	850.3	839.4	833.9	832.2
901.6	20°	903.7	903.7	917.7	927.9	898.2	859.9	834.3	816.5	805.2	800.4
965.9	22.5°	963.5	958.0	966.9	959.7	896.5	840.8	805.2	774.5	757.4	750.5
1055.7	25°	1039.3	1032.8	1030.5	986.0	884.2	810.4	752.6	715.3	700.3	696.5
1185.3	27.5°	1153.8	1137.4	1106.3	1000.4	861.6	762.5	691.1	656.6	648.0	648.4
1351.7	30°	1306.3	1273.5	1197.2	1002.8	824.7	694.8	628.2	603.6	599.5	601.2
1491.5	32.5°	1447.4	1416.3	1290.2	991.8	768.0	628.5	571.8	555.4	549.2	551.3
1598.1	35°	1558.2	1549.6	1376.3	976.5	698.2	566.3	521.2	507.2	495.2	492.5
1698.6	37.5°	1662.7	1659.3	1440.9	954.9	629.2	522.2	480.5	462.1	444.7	435.1
1809.7	40°	1777.6	1774.2	1483.3	921.8	568.0	484.0	444.0	419.7	398.2	380.7
1935.5	42.5°	1906.8	1886.6	1503.5	874.3	516.1	451.5	414.2	381.4	353.1	337.0
2077.7	45°	2047.9	2002.5	1503.1	813.8	472.3	421.8	382.4	336.0	309.6	294.6
2223.6	47.5°	2197.6	2113.2	1484.7	746.8	430.0	388.9	333.2	297.7	280.3	271.0
2382.2	50°	2352.1	2216.8	1453.2	669.9	386.5	351.7	302.5	278.2	264.9	256.3
2539.4	52.5°	2497.4	2310.8	1415.3	582.7	342.5	315.5	288.8	270.0	256.0	246.4
2691.8	55°	2632.4	2391.8	1361.6	493.5	306.6	291.2	282.3	266.6	250.5	239.2
2846.7	57.5°	2752.3	2444.4	1269.0	409.8	280.9	274.4	275.5	260.8	242.3	232.7
2999.1	60°	2852.1	2483.0	1132.0	332.2	260.1	258.0	264.9	249.8	228.3	217.4
3127.9	62.5°	2911.9	2482.3	963.8	272.1	242.3	243.0	250.9	236.2	214.3	204.0
3195.3	65°	2906.8	2421.5	779.3	232.7	225.2	225.9	236.2	221.1	202.7	196.5
3161.4	67.5°	2803.9	2273.2	597.8	207.1	206.4	209.5	221.5	210.9	195.5	194.8
2959.8	70°	2525.4	1965.2	430.6	186.6	187.0	191.4	207.1	204.4	191.7	193.1
2488.5	72.5°	2025.0	1498.3	289.1	165.1	165.4	172.6	193.4	199.3	188.0	206.1
1765.6	75°	1348.7	934.4	185.9	142.2	142.5	151.7	181.5	189.3	177.7	205.4
918.7	77.5°	648.0	420.0	134.7	119.6	119.6	128.2	156.9	169.5	151.4	159.6
295.3	80°	223.9	157.9	106.0	96.4	94.3	100.1	132.3	147.0	130.6	120.3
96.4	82.5°	88.2	82.0	85.1	74.8	68.0	71.8	102.9	121.3	96.0	86.8
54.3	85°	50.6	53.3	60.2	49.6	39.3	44.1	75.5	87.2	72.5	63.9
17.8	87.5°	13.7	18.8	27.7	25.6	17.8	18.8	35.9	48.2	41.7	32.1
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>
721.5
739.9
769.3
804.9
837.7
849.3
849.7
834.6
799.4
749.5
697.2
649.4
607.0
554.0
494.6
435.4
382.4
338.0
293.9
269.0
253.3
242.3
234.8
226.6
212.6
201.0
196.2
195.8
192.8
208.8
207.1
146.3
112.8
86.5
65.3
33.2
0.0

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