

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: P939685

Luminaire Tested: **GALN-SB2B-927-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-927-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6792 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

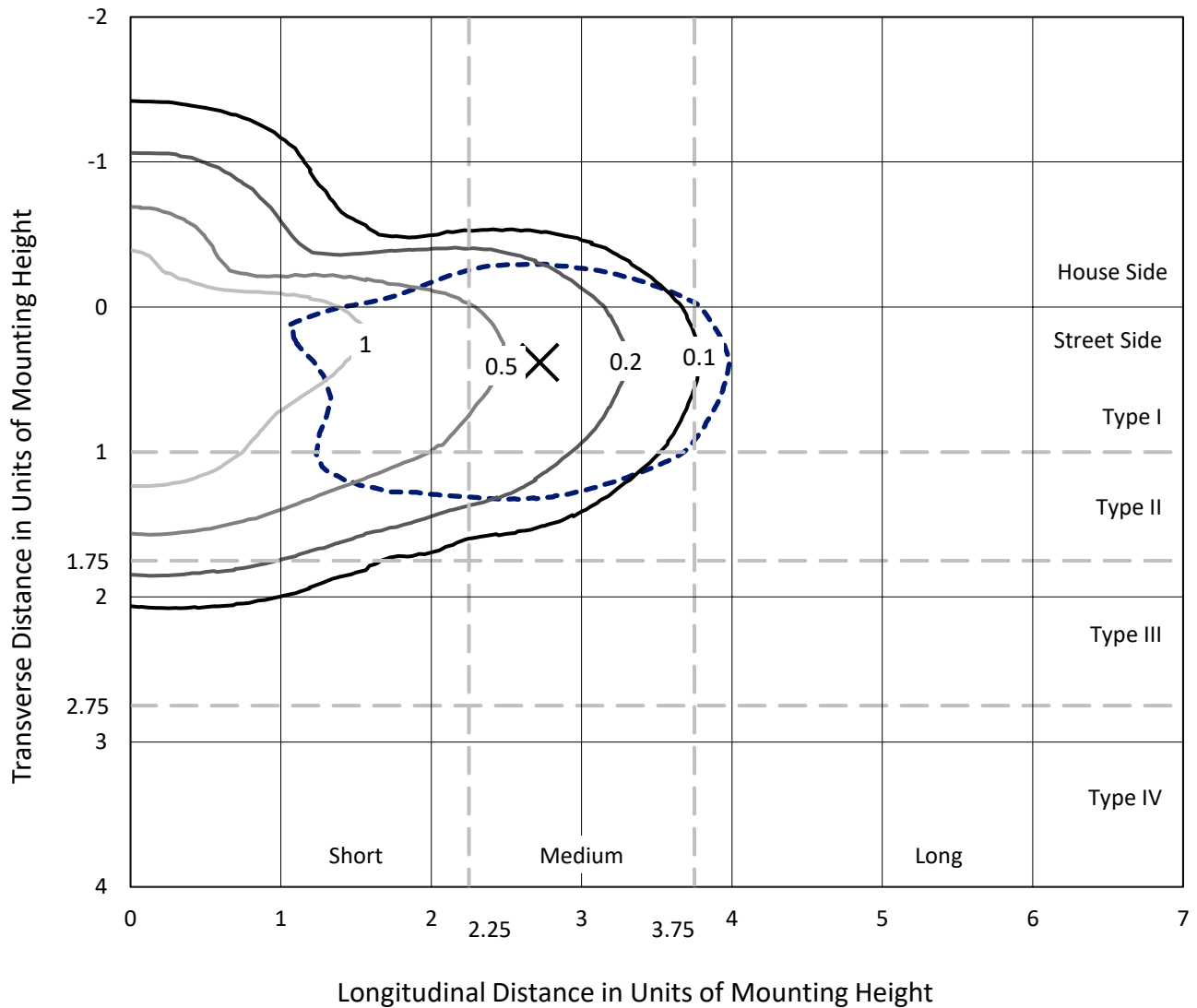
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

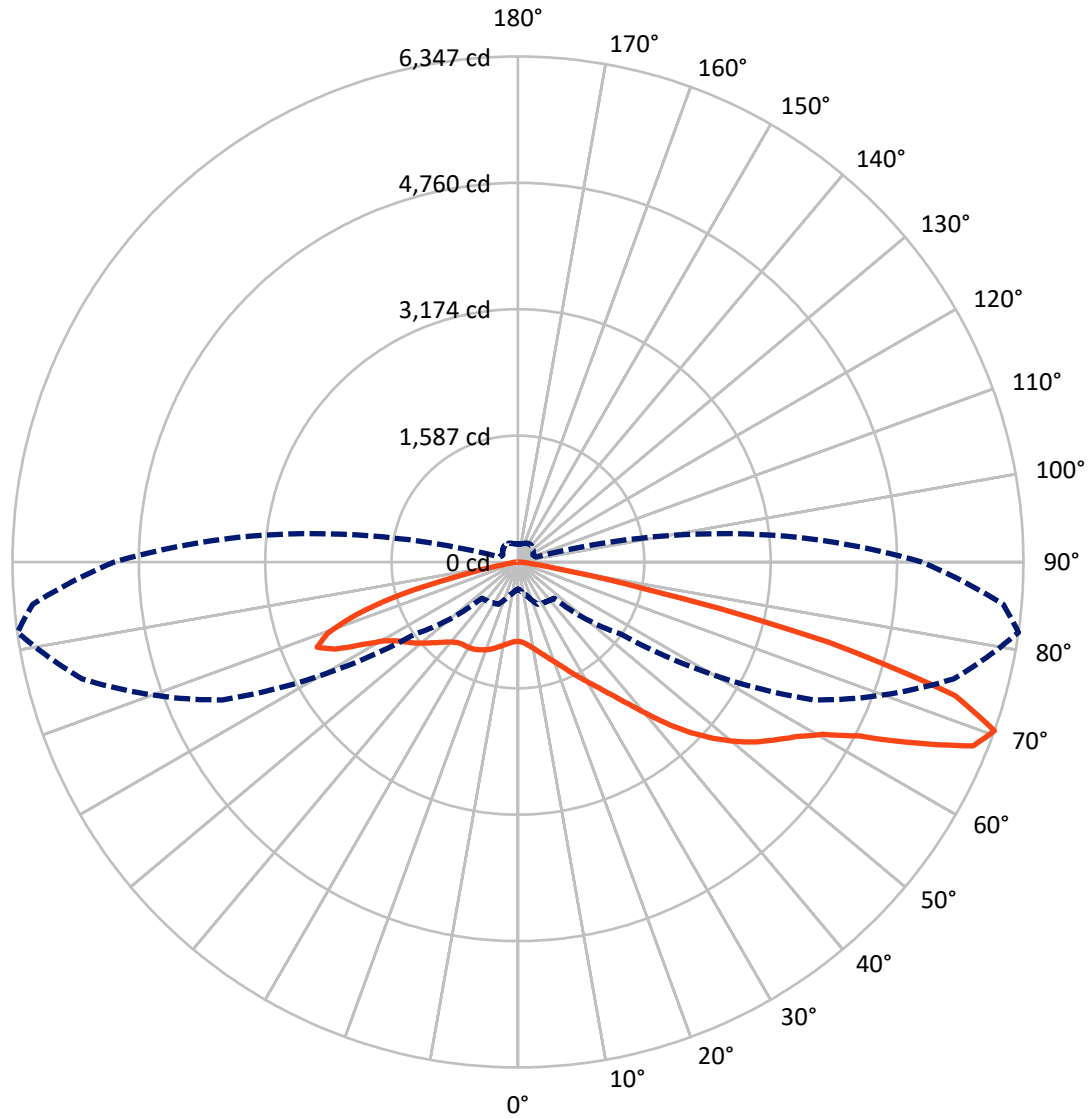
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1674.4	0.0	1674.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	5117.6	0.0	5117.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	6792.0	0.0	6792.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.0	1.4
10°-20°	270.1	4.0
20°-30°	451.9	6.7
30°-40°	706.0	10.4
40°-50°	1124.3	16.6
50°-60°	1564.7	23.0
60°-70°	1636.7	24.1
70°-80°	855.4	12.6
80°-90°	88.8	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°	6792.0	100.0
0°-180°	6792.0	100.0

Coefficient of Utilization



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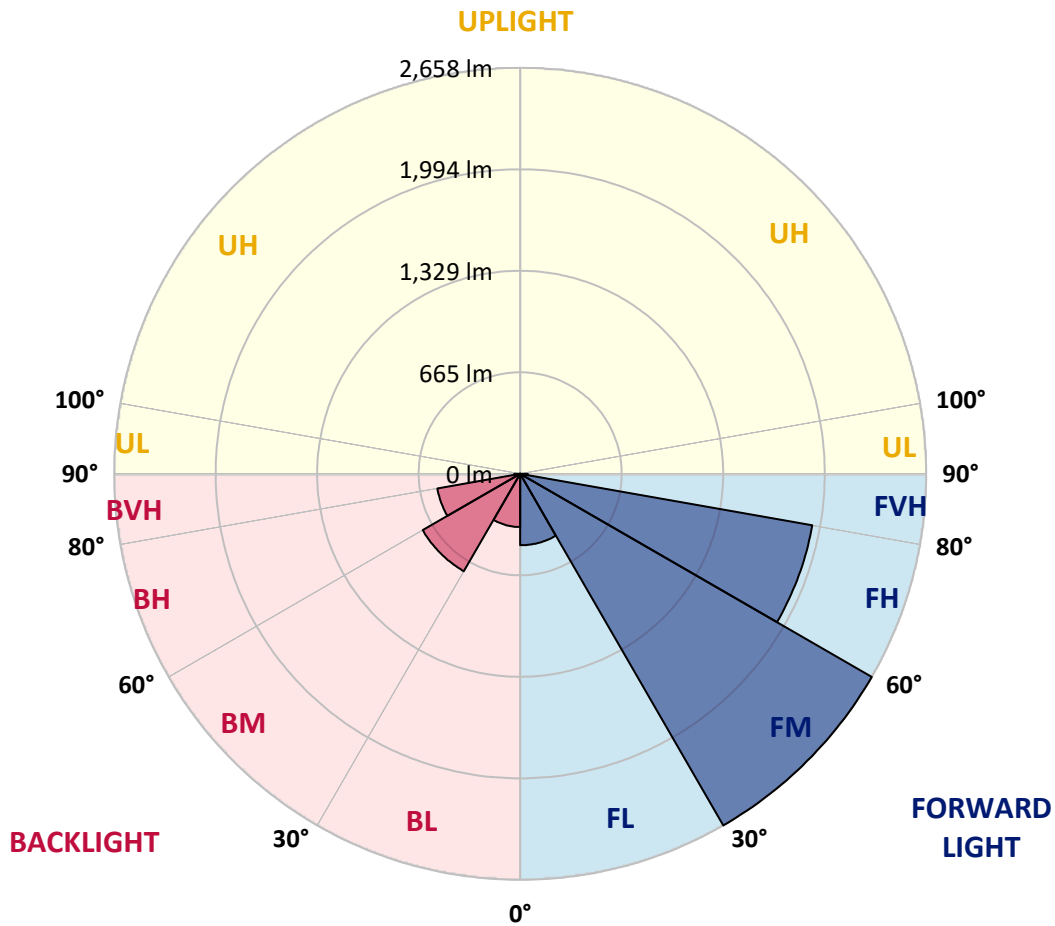
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	467.7	6.9			
FM (30°-60°)	2658.3	39.1			
FH (60°-80°)	1941.9	28.6			G2/5000
FVH (80°-90°)	49.7	0.7			G1/100
BL (0°-30°)	348.3	5.1	B1/500		
BM (30°-60°)	736.7	10.8	B1/1000		
BH (60°-80°)	550.3	8.1	B2/1000		G2/1000
BVH (80°-90°)	39.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8
2.5°	1019.6	1025.3	1023.5	1021.7	1021.7	1019.2	1018.9	1015.3	1012.4	1007.7
5°	1032.6	1038.7	1038.0	1039.4	1044.1	1045.2	1046.2	1044.1	1038.3	1032.6
7.5°	1021.0	1027.9	1030.0	1038.7	1053.1	1066.1	1075.8	1079.8	1074.4	1066.1
10°	982.1	989.7	997.2	1017.8	1043.4	1074.0	1099.9	1115.4	1114.4	1106.4
12.5°	903.2	911.1	927.3	967.3	1014.2	1068.2	1116.5	1149.0	1160.1	1154.4
15°	840.1	846.9	859.2	900.3	961.2	1043.4	1122.7	1185.7	1214.2	1211.0
17.5°	838.3	841.2	848.7	868.2	915.1	1004.4	1116.2	1221.8	1276.2	1275.8
20°	870.0	871.1	875.4	879.4	906.1	974.9	1099.6	1251.7	1345.7	1345.7
22.5°	914.0	913.3	917.6	914.0	927.0	972.4	1089.1	1278.0	1423.2	1429.0
25°	979.9	976.3	975.2	967.0	969.5	995.8	1100.7	1307.9	1515.1	1527.0
27.5°	1067.9	1062.1	1058.1	1039.0	1032.6	1044.1	1136.0	1343.9	1617.5	1638.0
30°	1182.5	1172.0	1166.3	1133.1	1109.7	1111.5	1189.3	1391.9	1724.5	1757.7
32.5°	1338.9	1322.7	1307.2	1252.8	1209.9	1195.8	1258.2	1458.2	1840.6	1893.6
35°	1514.1	1501.1	1484.5	1400.5	1334.6	1302.1	1351.1	1550.8	1976.4	2060.4
37.5°	1682.7	1671.5	1679.5	1566.3	1481.3	1434.0	1473.0	1675.2	2144.0	2268.0
40°	1857.2	1848.5	1849.6	1741.5	1642.4	1589.4	1620.7	1831.2	2336.1	2514.9
42.5°	2046.7	2040.2	2018.6	1922.7	1811.4	1762.0	1790.8	2011.4	2542.3	2796.0
45°	2259.0	2255.0	2234.9	2124.9	1997.4	1941.8	1980.8	2210.3	2749.5	3060.5
47.5°	2442.4	2445.7	2443.2	2350.5	2218.3	2136.8	2183.3	2417.9	2942.3	3309.2
50°	2530.7	2547.7	2572.6	2543.7	2461.5	2378.7	2387.7	2618.3	3126.1	3542.4
52.5°	2484.6	2516.7	2584.4	2630.6	2662.3	2645.0	2620.8	2817.3	3299.1	3752.9
55°	2312.7	2357.8	2470.2	2581.6	2743.4	2869.2	2900.9	3037.8	3467.8	3938.1
57.5°	1999.5	2072.7	2173.6	2398.8	2671.3	2977.6	3227.4	3343.8	3646.6	4136.0
60°	1462.5	1560.5	1686.0	2021.1	2419.0	2919.6	3505.3	3813.8	3900.6	4392.2
62.5°	936.0	996.5	1111.8	1427.6	1884.9	2622.3	3590.3	4401.2	4331.3	4812.5
65°	640.8	679.7	785.3	962.6	1218.5	1951.9	3362.6	4841.6	5015.4	5478.5
67.5°	465.6	495.2	585.3	740.6	794.0	1155.1	2609.3	4821.5	5680.3	6164.7
70°	339.5	360.4	436.1	585.3	610.9	642.6	1580.7	4098.5	5665.9	6347.0
72.5°	251.6	266.0	316.8	454.1	494.5	433.9	782.4	2978.7	4868.7	5740.9
75°	182.0	192.8	230.3	347.4	395.7	330.5	390.3	1740.7	3396.1	4038.3
77.5°	139.1	147.4	171.9	254.4	316.8	248.0	242.2	800.8	1610.3	1618.2
80°	111.7	117.1	130.5	179.1	242.9	185.6	157.9	323.3	508.9	430.7
82.5°	82.2	91.2	110.3	125.8	173.7	127.9	96.2	163.3	193.5	166.5
85°	46.9	53.0	66.7	90.1	111.0	78.2	55.1	72.4	90.1	73.9
87.5°	16.6	21.6	23.4	35.3	48.3	32.4	21.3	20.9	29.6	22.0
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°
995.8	0°	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8
1006.6	2.5°	1003.0	1001.2	994.0	984.3	974.2	964.4	961.2	954.3	949.7	947.1
1030.0	5°	1023.2	1017.4	1000.5	978.9	956.1	931.6	914.3	898.5	887.0	876.1
1062.1	7.5°	1052.0	1041.9	1012.7	974.9	934.5	893.8	863.5	840.5	825.0	814.9
1099.6	10°	1085.5	1070.0	1025.3	968.8	906.4	848.0	812.3	792.5	782.8	777.4
1142.5	12.5°	1124.1	1102.1	1038.3	954.7	863.5	796.8	772.3	766.6	766.9	767.3
1196.5	15°	1171.7	1141.0	1048.8	924.1	807.7	757.6	753.2	762.6	772.3	777.0
1257.8	17.5°	1225.4	1182.1	1050.6	873.6	752.9	732.3	746.0	766.2	781.0	787.5
1326.3	20°	1283.0	1223.9	1037.6	802.3	707.8	711.8	736.3	762.3	778.5	786.8
1404.5	22.5°	1349.0	1268.6	1006.6	727.3	671.1	689.4	718.3	743.5	760.4	768.7
1496.4	25°	1424.3	1318.7	957.9	664.2	639.4	664.2	693.1	714.0	727.7	735.2
1599.1	27.5°	1507.9	1371.0	893.1	614.1	611.6	638.3	662.1	678.3	685.5	691.3
1708.3	30°	1591.9	1418.5	814.5	576.3	587.5	612.7	629.6	636.8	639.0	640.1
1830.1	32.5°	1682.7	1459.6	732.0	544.9	564.4	587.8	597.9	601.2	591.1	584.2
1977.9	35°	1792.6	1503.6	651.2	520.1	541.7	561.9	565.1	562.2	550.3	536.3
2163.1	37.5°	1928.5	1558.4	586.7	502.4	520.4	533.8	529.8	529.1	530.2	513.6
2385.9	40°	2095.0	1629.7	539.5	488.7	503.1	506.0	494.8	501.0	506.4	481.1
2630.2	42.5°	2279.9	1715.9	509.6	479.3	488.7	481.9	464.6	471.4	470.7	437.5
2875.7	45°	2468.4	1809.6	499.2	472.5	475.4	461.7	442.6	444.4	429.2	399.3
3111.0	47.5°	2655.8	1910.1	505.6	466.7	458.8	443.3	428.5	420.6	398.2	375.9
3336.6	50°	2839.6	2015.7	529.4	455.2	436.1	427.1	416.3	402.2	378.4	359.3
3550.0	52.5°	3010.1	2122.0	556.1	436.1	407.6	413.0	406.2	390.0	366.5	347.1
3751.8	55°	3171.5	2228.4	566.6	409.8	380.9	400.8	396.8	366.9	338.8	322.9
3963.0	57.5°	3347.4	2356.3	555.0	376.3	359.3	386.7	371.6	338.4	322.2	310.3
4238.0	60°	3591.1	2557.1	530.2	334.8	338.8	365.8	339.9	326.2	308.5	295.2
4650.3	62.5°	3995.8	2931.5	490.1	293.7	314.6	334.8	324.7	311.0	293.0	280.0
5355.2	65°	4594.1	3451.9	414.8	261.7	287.6	304.5	308.5	294.8	276.1	262.4
5973.0	67.5°	5098.6	3778.5	313.9	235.0	259.9	280.0	291.2	277.9	258.0	244.7
6117.5	70°	5070.9	3541.3	239.7	208.7	235.3	255.9	270.3	259.9	238.6	226.0
5556.7	72.5°	4504.0	2962.5	193.9	182.0	210.5	230.7	248.0	240.0	218.4	206.2
4070.7	75°	3308.9	2102.9	155.0	155.0	179.5	204.3	223.4	218.4	198.6	189.9
1709.0	77.5°	1394.8	882.3	121.5	128.7	149.2	175.5	199.3	201.1	183.8	194.6
451.9	80°	370.9	243.3	92.6	101.3	117.1	144.9	173.4	172.6	153.9	143.8
167.9	82.5°	141.3	95.9	66.0	71.4	84.7	111.0	137.3	141.6	122.9	106.3
66.0	85°	54.4	41.1	40.7	42.9	49.4	73.5	103.8	107.4	92.6	78.6
18.4	87.5°	14.1	12.3	15.1	14.4	22.7	39.3	59.5	61.6	56.6	32.8
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>
995.8
950.0
880.5
817.0
778.8
768.0
776.7
788.9
788.9
770.9
737.4
693.4
642.6
586.4
537.0
514.7
481.9
437.2
400.4
375.9
357.9
347.4
321.5
309.2
294.4
280.0
263.1
245.1
227.1
206.2
187.4
176.6
133.7
106.3
81.1
46.9
0.0

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