

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: P939429

Luminaire Tested: **GALN-SB2A-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-735-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8866 lumens
Efficiency: N/A
Efficacy: 154.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

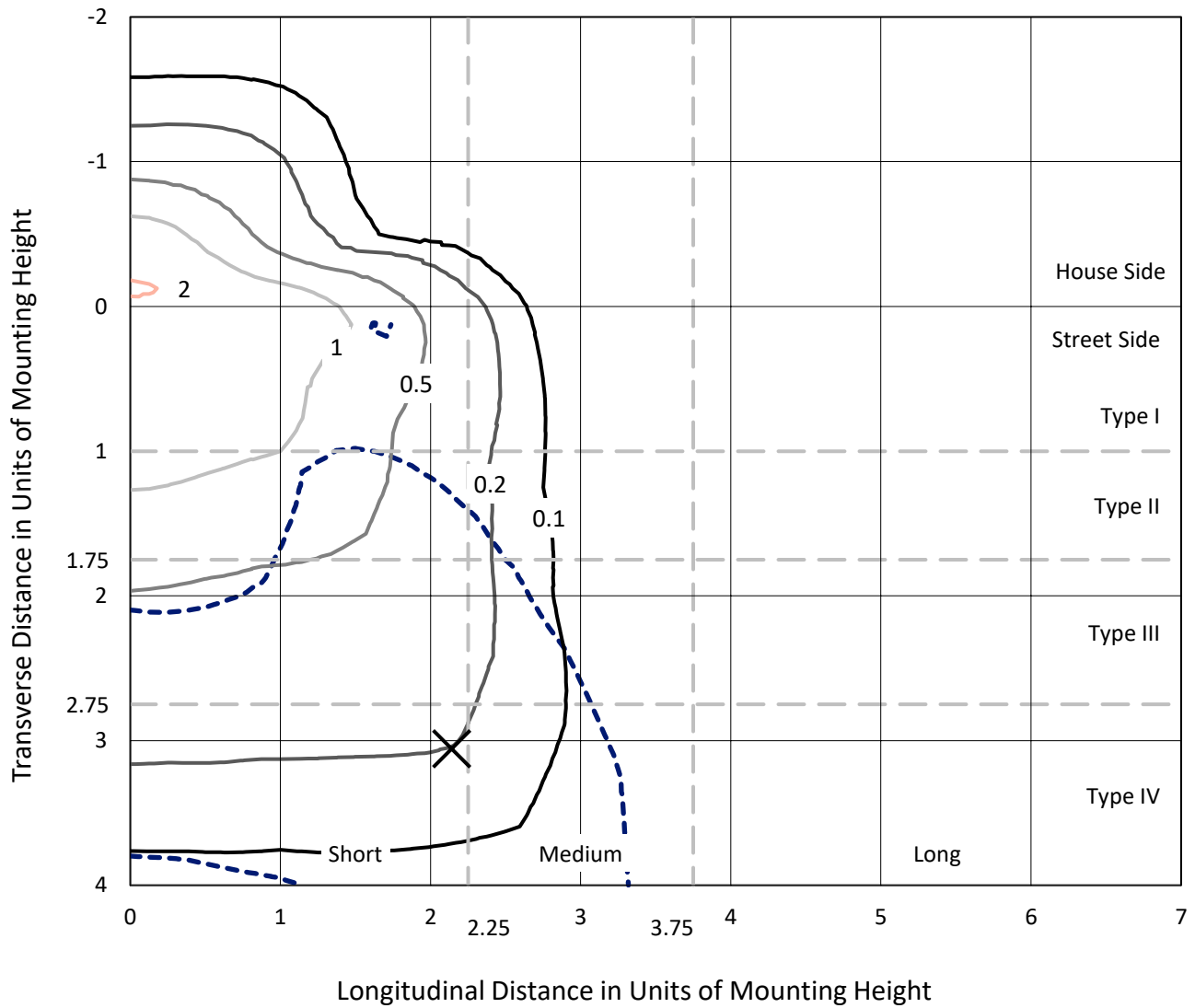
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

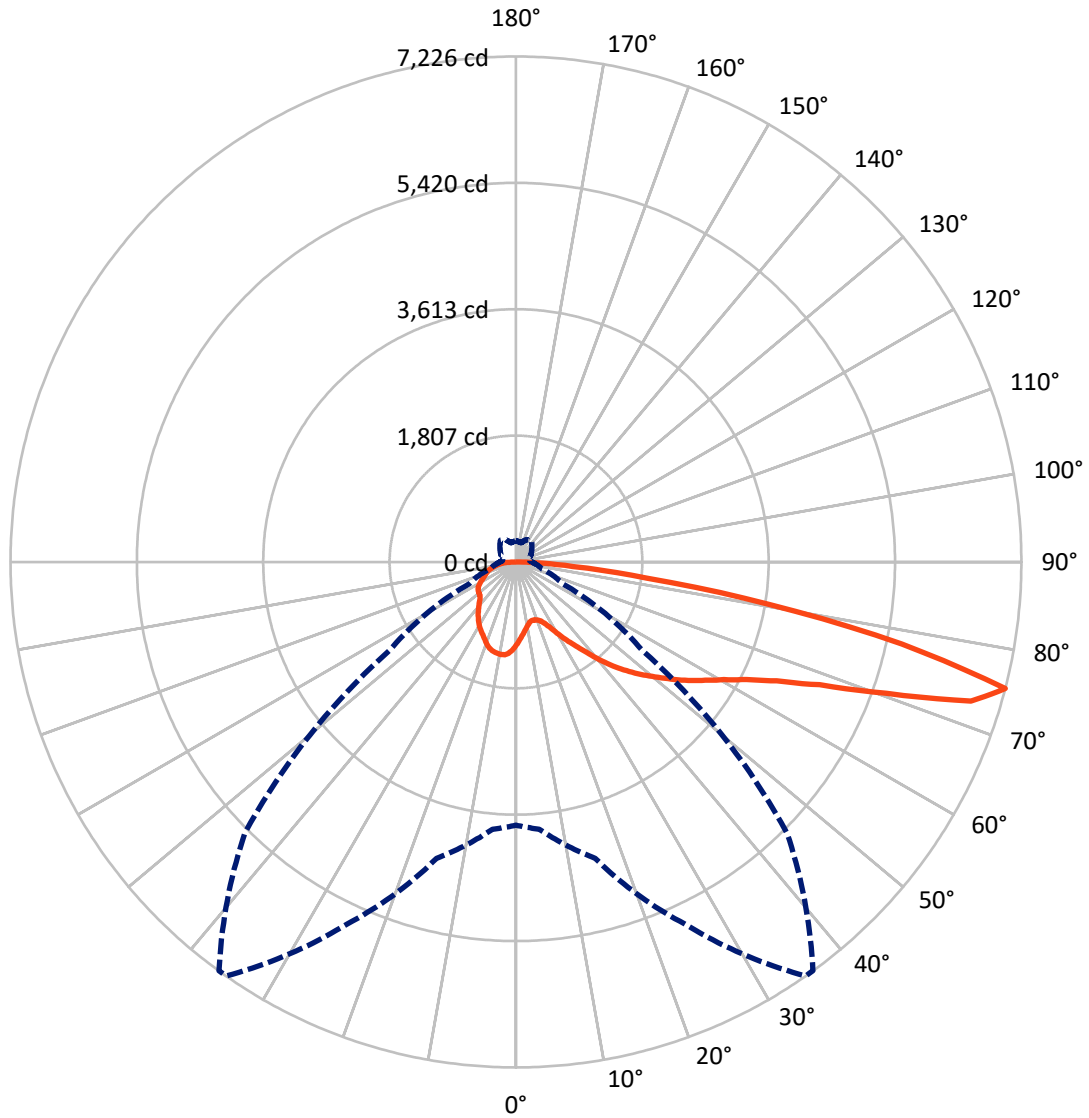
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2109.9	0.0	2109.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	6756.1	0.0	6756.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	8866.0	0.0	8866.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.9	1.3
10°-20°	322.7	3.6
20°-30°	541.8	6.1
30°-40°	842.1	9.5
40°-50°	1249.8	14.1
50°-60°	1725.5	19.5
60°-70°	2093.4	23.6
70°-80°	1730.0	19.5
80°-90°	248.8	2.8
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°	8866.0	100.0
0°-180°	8866.0	100.0

Coefficient of Utilization



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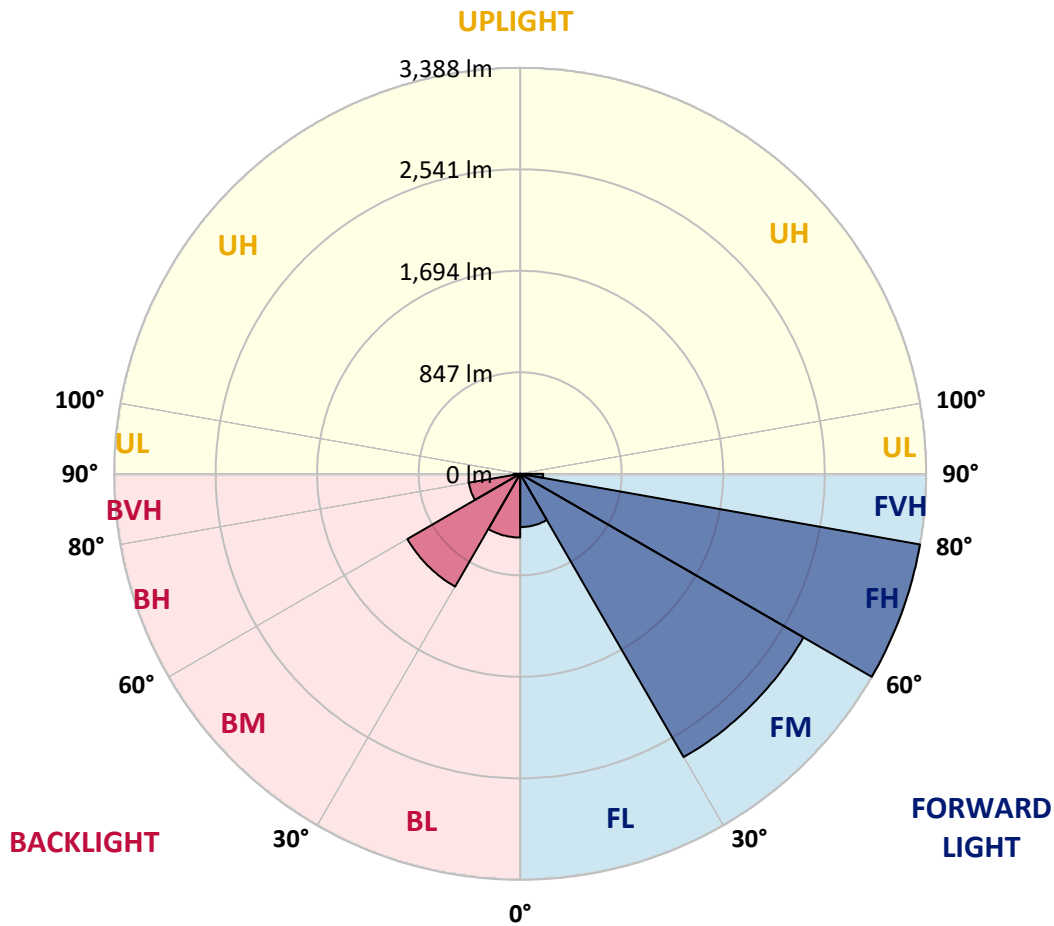
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	444.6	5.0			
FM (30°-60°)	2730.2	30.8			
FH (60°-80°)	3388.5	38.2			G2/5000
FVH (80°-90°)	192.8	2.2			G2/225
BL (0°-30°)	531.7	6.0	B2/1000		
BM (30°-60°)	1087.1	12.3	B2/2500		
BH (60°-80°)	435.0	4.9	B1/500		G1/500
BVH (80°-90°)	56.0	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1181.5	1181.5	1181.5	1181.5	1181.5	1181.5	1181.5	1181.5	1181.5	1181.5
2.5°	1089.4	1096.1	1099.0	1097.6	1104.8	1103.8	1113.9	1126.3	1143.6	1160.4
5°	1005.6	1012.7	1019.0	1024.7	1038.6	1042.9	1058.8	1082.7	1114.4	1146.5
7.5°	927.4	933.7	943.2	953.8	977.3	981.6	1008.0	1045.3	1089.4	1136.4
10°	863.7	869.9	880.0	892.0	921.2	926.5	960.0	1009.9	1067.4	1126.8
12.5°	836.4	838.3	844.0	856.0	881.4	884.8	921.7	978.7	1045.8	1119.6
15°	834.9	838.8	839.2	845.5	866.6	868.0	902.0	958.6	1032.4	1118.2
17.5°	849.3	852.2	847.9	851.7	869.4	871.8	898.7	949.0	1028.1	1124.4
20°	887.6	890.0	877.1	871.8	884.8	886.7	913.1	955.2	1032.4	1137.4
22.5°	969.1	970.6	938.9	917.4	918.3	919.3	942.3	980.6	1049.2	1160.8
25°	1096.1	1095.2	1044.9	1003.2	979.2	973.9	989.3	1021.9	1077.4	1192.0
27.5°	1244.7	1237.5	1187.2	1124.9	1072.7	1065.0	1061.6	1075.5	1117.7	1233.2
30°	1412.5	1405.8	1351.6	1270.1	1197.8	1185.3	1153.7	1146.5	1177.6	1289.3
32.5°	1596.5	1592.2	1527.5	1428.8	1332.0	1317.6	1264.4	1245.2	1269.6	1374.1
35°	1750.9	1747.0	1693.3	1591.7	1473.3	1455.6	1401.4	1379.9	1392.3	1482.9
37.5°	1890.3	1888.4	1842.4	1762.4	1640.1	1618.6	1557.7	1550.5	1548.1	1626.2
40°	2019.7	2014.9	1967.0	1924.8	1834.3	1814.6	1760.9	1754.7	1736.5	1802.6
42.5°	2163.0	2150.6	2081.1	2061.4	2037.0	2020.7	1988.6	1989.5	1949.3	2001.5
45°	2280.0	2272.8	2201.4	2189.9	2216.2	2209.5	2237.3	2244.5	2166.4	2210.0
47.5°	2405.6	2398.9	2338.5	2330.3	2401.7	2403.6	2501.9	2504.3	2378.2	2426.7
50°	2560.4	2550.8	2490.9	2500.9	2581.0	2588.2	2767.9	2751.6	2573.3	2646.6
52.5°	2662.5	2668.2	2655.3	2671.6	2780.9	2787.6	3029.6	2987.9	2766.5	2863.8
55°	2737.7	2749.2	2789.5	2826.9	2991.7	2998.4	3276.4	3212.7	2926.6	3065.1
57.5°	2834.5	2818.2	2893.5	2966.3	3192.1	3209.8	3516.6	3429.3	3068.4	3238.6
60°	2973.5	2962.0	3020.5	3128.3	3416.4	3444.7	3770.6	3624.4	3172.4	3376.1
62.5°	3255.4	3226.6	3235.7	3331.1	3699.2	3736.6	4057.2	3794.6	3224.2	3429.8
65°	3676.6	3627.3	3581.3	3647.4	4097.5	4134.4	4380.7	3928.3	3205.0	3325.8
67.5°	4207.2	4158.3	4101.8	4164.1	4684.1	4713.4	4780.0	4003.5	3054.0	2925.1
70°	4644.8	4626.6	4694.2	4950.6	5621.1	5622.1	5291.9	3941.2	2640.4	2073.9
72.5°	4586.8	4575.8	4931.9	5724.7	6802.1	6776.7	5776.4	3469.6	1778.7	935.6
75°	3762.9	3834.3	4386.0	5710.8	7226.3	7222.9	5479.7	2205.7	735.7	387.7
77.5°	2017.8	2130.9	2847.5	4216.3	5641.3	5726.1	3852.5	771.7	315.9	248.3
80°	658.1	756.8	1135.0	2146.7	3665.6	3649.8	1651.2	302.9	216.2	175.9
82.5°	279.4	290.9	507.1	1013.7	1881.2	1852.0	525.8	174.0	151.9	120.3
85°	109.3	122.2	223.8	468.7	814.8	797.1	189.8	86.3	97.3	78.6
87.5°	35.9	43.6	80.0	160.6	253.5	244.4	46.5	29.7	42.2	35.9
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°
1181.5	0°	1181.5	1181.5	1181.5	1181.5	1181.5	1181.5	1181.5	1181.5	1181.5	1181.5
1184.8	2.5°	1191.5	1199.2	1208.3	1221.7	1233.2	1242.8	1252.9	1259.1	1261.5	1268.7
1186.7	5°	1200.1	1216.9	1239.4	1261.5	1283.1	1296.0	1307.5	1313.3	1318.5	1322.4
1192.0	7.5°	1214.5	1236.1	1271.6	1300.3	1318.5	1329.1	1336.7	1334.8	1336.7	1337.7
1197.8	10°	1227.0	1257.2	1299.4	1326.7	1340.6	1341.1	1339.1	1332.4	1329.1	1329.6
1206.4	12.5°	1241.8	1275.4	1320.9	1343.9	1347.8	1337.2	1329.1	1317.6	1313.3	1311.3
1219.3	15°	1262.0	1300.3	1344.4	1353.0	1343.5	1330.0	1316.1	1297.4	1287.9	1280.2
1241.4	17.5°	1286.4	1328.6	1362.6	1356.4	1335.8	1313.7	1291.2	1262.9	1243.3	1235.1
1271.6	20°	1320.4	1358.3	1376.5	1349.2	1318.1	1284.5	1246.2	1211.6	1193.4	1185.3
1309.9	22.5°	1361.7	1398.1	1389.9	1336.7	1292.7	1239.0	1191.0	1165.6	1156.5	1150.8
1359.3	25°	1411.0	1442.2	1399.5	1318.5	1251.0	1178.6	1141.7	1133.5	1129.2	1124.9
1419.7	27.5°	1475.3	1492.0	1406.7	1291.7	1185.8	1114.4	1100.9	1102.4	1100.9	1093.7
1503.5	30°	1560.1	1556.7	1413.4	1248.1	1111.0	1056.4	1057.3	1063.5	1064.5	1059.7
1620.5	32.5°	1671.8	1637.7	1416.8	1191.5	1039.6	1005.6	1006.5	1013.2	1018.0	1009.9
1773.4	35°	1806.9	1732.2	1411.5	1120.6	984.5	957.1	950.0	951.9	953.3	945.6
1958.9	37.5°	1964.6	1838.1	1388.0	1042.0	938.9	909.7	894.4	881.4	873.7	866.6
2168.8	40°	2137.6	1953.6	1344.9	965.3	888.1	859.4	836.4	811.9	786.0	776.5
2391.2	42.5°	2318.8	2072.5	1292.7	892.0	829.7	806.2	781.7	746.3	707.4	687.8
2622.2	45°	2506.7	2194.2	1241.4	819.6	769.7	759.7	731.4	688.7	646.6	621.6
2853.7	47.5°	2690.7	2309.2	1166.1	746.7	713.7	724.7	702.6	663.3	616.4	577.1
3083.3	50°	2866.6	2417.1	1042.9	672.9	668.1	714.1	693.1	636.5	582.8	532.5
3308.6	52.5°	3041.1	2504.3	885.3	605.8	643.7	711.3	680.6	618.3	552.6	499.9
3520.4	55°	3189.2	2549.4	733.3	548.3	608.2	686.8	665.7	596.7	510.0	453.9
3665.6	57.5°	3273.6	2512.9	606.8	491.8	559.3	646.6	640.3	550.7	459.2	416.0
3693.9	60°	3237.1	2365.3	503.3	442.4	512.8	602.9	596.2	505.2	420.3	379.6
3542.4	62.5°	3036.3	2084.0	421.3	399.3	470.7	558.4	552.1	470.2	390.6	351.3
3140.3	65°	2631.8	1695.3	357.6	363.3	428.0	504.7	513.8	440.9	367.1	328.8
2429.5	67.5°	2007.3	1227.9	307.7	332.1	386.3	452.0	478.3	419.9	347.5	311.1
1405.8	70°	1144.1	697.4	265.5	302.0	349.4	403.1	451.0	403.1	326.4	296.2
526.7	72.5°	433.8	320.2	229.6	271.8	313.9	361.9	420.8	376.7	302.0	279.4
272.2	75°	231.5	195.1	193.2	236.3	273.2	321.6	383.0	350.8	283.7	295.2
188.4	77.5°	157.7	138.0	161.5	202.3	228.6	277.0	342.7	311.5	245.9	244.9
130.4	80°	109.3	97.8	131.3	163.0	176.9	232.9	299.1	267.4	200.3	186.9
80.5	82.5°	65.7	63.7	98.3	121.7	125.1	179.7	247.8	224.3	163.9	142.8
47.9	85°	35.9	37.9	62.8	71.4	72.9	125.6	194.1	173.5	126.1	105.9
17.3	87.5°	10.1	12.9	23.0	28.3	35.0	65.2	115.5	103.0	63.3	44.1
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>
1181.5
1268.2
1323.3
1339.1
1330.5
1310.4
1282.6
1235.6
1184.3
1151.7
1124.9
1095.2
1062.1
1013.7
950.9
871.4
780.8
690.2
619.7
572.8
528.2
494.1
449.1
410.3
373.8
345.1
322.6
305.3
292.4
275.6
304.8
225.7
178.8
143.8
106.9
44.1
0.0

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