

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: P938919

Luminaire Tested: **GALN-SB1B-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938919
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-SB1B-735-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5567 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

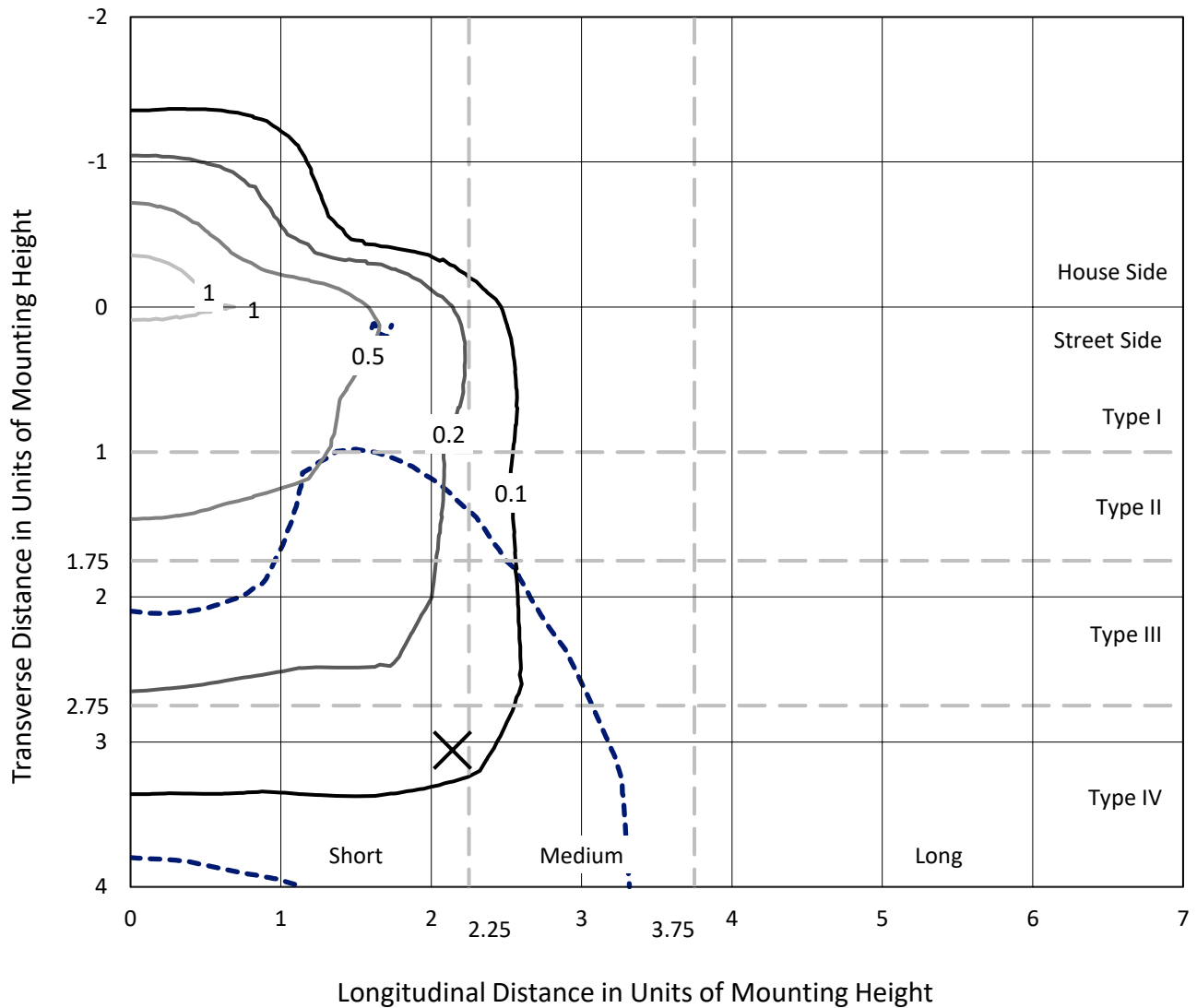
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

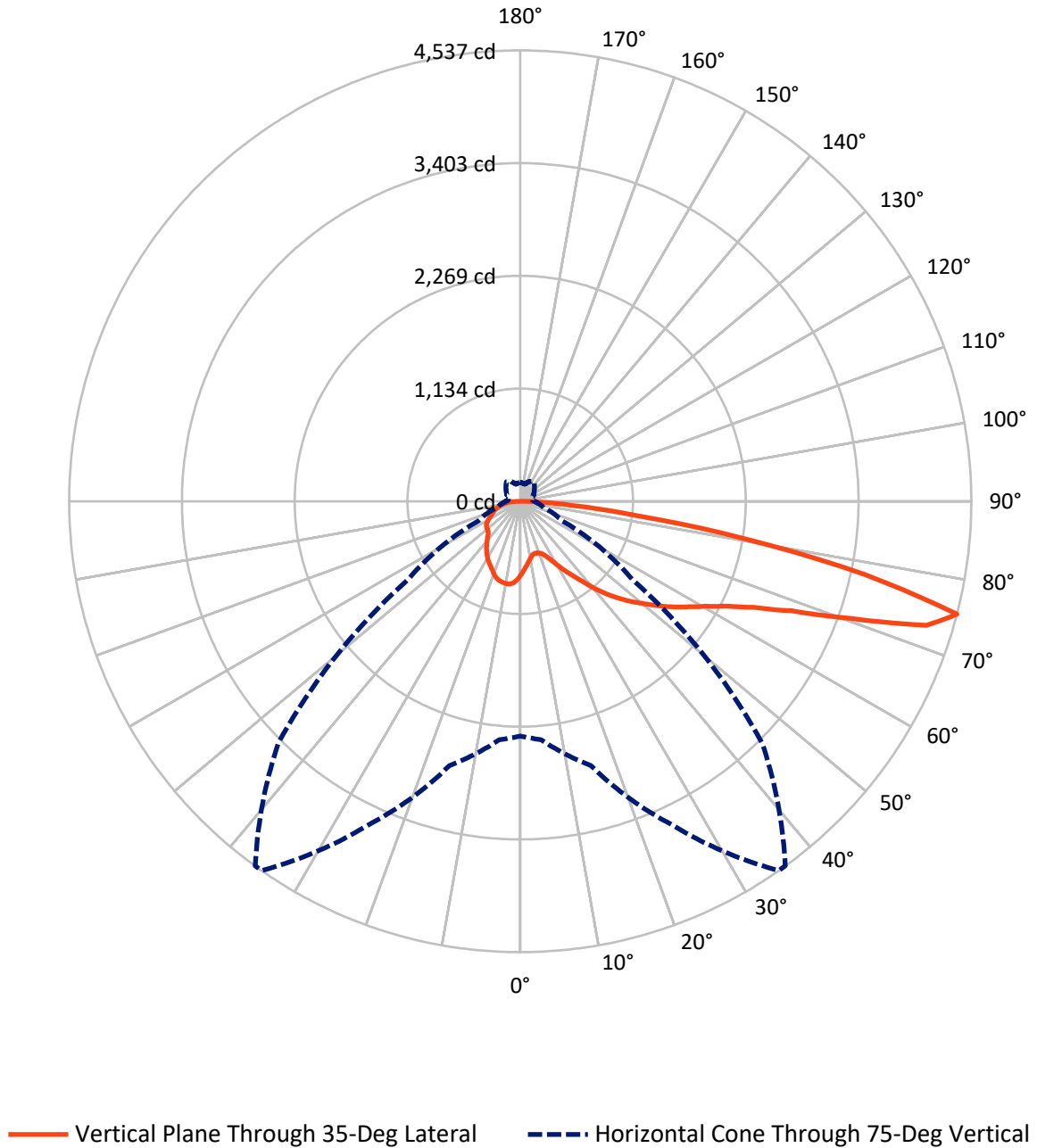
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1324.8	0.0	1324.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	4242.2	0.0	4242.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	5567.0	0.0	5567.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	1.3
10°-20°	202.6	3.6
20°-30°	340.2	6.1
30°-40°	528.7	9.5
40°-50°	784.8	14.1
50°-60°	1083.4	19.5
60°-70°	1314.5	23.6
70°-80°	1086.3	19.5
80°-90°	156.2	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°	5567.0	100.0
0°-180°	5567.0	100.0

Coefficient of Utilization



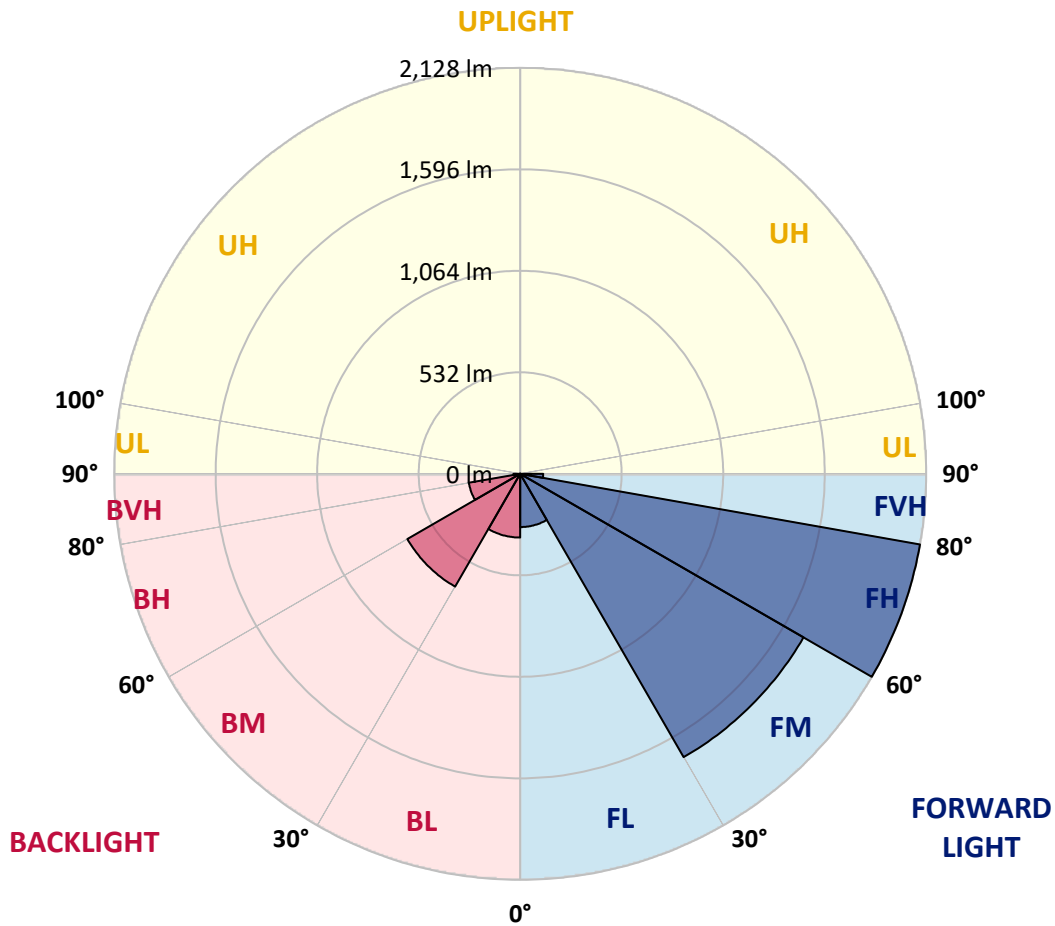
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	279.2	5.0			
FM	(30°-60°)	1714.3	30.8			
FH	(60°-80°)	2127.6	38.2			G2/5000
FVH	(80°-90°)	121.1	2.2			G2/225
BL	(0°-30°)	333.9	6.0	B1/500		
BM	(30°-60°)	682.6	12.3	B1/1000		
BH	(60°-80°)	273.1	4.9	B1/500		G1/500
BVH	(80°-90°)	35.2	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8
2.5°	684.1	688.3	690.1	689.2	693.7	693.1	699.4	707.2	718.1	728.6
5°	631.4	635.9	639.8	643.4	652.2	654.9	664.8	679.8	699.7	719.9
7.5°	582.3	586.2	592.3	598.9	613.6	616.3	632.9	656.4	684.1	713.6
10°	542.3	546.2	552.5	560.1	578.4	581.7	602.8	634.1	670.2	707.5
12.5°	525.2	526.4	530.0	537.5	553.4	555.6	578.7	614.5	656.7	703.0
15°	524.3	526.7	527.0	530.9	544.1	545.0	566.4	601.9	648.2	702.1
17.5°	533.3	535.1	532.4	534.8	545.9	547.4	564.3	595.9	645.5	706.0
20°	557.4	558.9	550.7	547.4	555.6	556.8	573.3	599.8	648.2	714.2
22.5°	608.5	609.4	589.6	576.0	576.6	577.2	591.7	615.7	658.8	728.9
25°	688.3	687.7	656.1	629.9	614.8	611.5	621.2	641.6	676.5	748.5
27.5°	781.6	777.1	745.5	706.3	673.5	668.7	666.6	675.3	701.8	774.3
30°	886.9	882.7	848.7	797.5	752.1	744.2	724.4	719.9	739.4	809.6
32.5°	1002.5	999.8	959.1	897.1	836.3	827.3	793.9	781.9	797.2	862.8
35°	1099.4	1097.0	1063.3	999.5	925.1	914.0	880.0	866.4	874.3	931.1
37.5°	1186.9	1185.7	1156.8	1106.6	1029.8	1016.3	978.1	973.6	972.1	1021.1
40°	1268.2	1265.2	1235.1	1208.6	1151.7	1139.4	1105.7	1101.8	1090.3	1131.9
42.5°	1358.2	1350.4	1306.7	1294.4	1279.0	1268.8	1248.6	1249.2	1224.0	1256.8
45°	1431.6	1427.1	1382.3	1375.0	1391.6	1387.4	1404.8	1409.3	1360.3	1387.7
47.5°	1510.5	1506.3	1468.3	1463.2	1508.1	1509.3	1571.0	1572.5	1493.3	1523.7
50°	1607.7	1601.7	1564.0	1570.4	1620.6	1625.1	1738.0	1727.8	1615.8	1661.8
52.5°	1671.8	1675.4	1667.3	1677.5	1746.1	1750.3	1902.3	1876.1	1737.1	1798.2
55°	1719.0	1726.2	1751.5	1775.0	1878.5	1882.7	2057.3	2017.3	1837.6	1924.6
57.5°	1779.8	1769.6	1816.8	1862.6	2004.3	2015.5	2208.1	2153.3	1926.7	2033.5
60°	1867.1	1859.9	1896.6	1964.3	2145.2	2162.9	2367.6	2275.8	1992.0	2119.9
62.5°	2044.0	2026.0	2031.7	2091.6	2322.7	2346.2	2547.5	2382.6	2024.5	2153.6
65°	2308.6	2277.6	2248.7	2290.2	2572.8	2596.0	2750.7	2466.6	2012.4	2088.3
67.5°	2641.7	2611.0	2575.5	2614.6	2941.2	2959.5	3001.4	2513.8	1917.6	1836.7
70°	2916.5	2905.1	2947.5	3108.5	3529.5	3530.1	3322.8	2474.7	1657.9	1302.2
72.5°	2880.1	2873.2	3096.8	3594.5	4271.1	4255.1	3627.0	2178.6	1116.8	587.5
75°	2362.8	2407.6	2754.0	3585.8	4537.4	4535.3	3440.8	1385.0	462.0	243.5
77.5°	1267.0	1338.0	1787.9	2647.5	3542.2	3595.4	2419.0	484.5	198.3	155.9
80°	413.2	475.2	712.6	1348.0	2301.7	2291.7	1036.8	190.2	135.7	110.4
82.5°	175.5	182.7	318.4	636.5	1181.2	1162.9	330.1	109.2	95.4	75.5
85°	68.6	76.7	140.5	294.3	511.6	500.5	119.2	54.2	61.1	49.4
87.5°	22.6	27.4	50.3	100.8	159.2	153.5	29.2	18.7	26.5	22.6
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°
741.8	0°	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8	741.8
743.9	2.5°	748.2	753.0	758.7	767.1	774.3	780.4	786.7	790.6	792.1	796.6
745.2	5°	753.6	764.1	778.3	792.1	805.6	813.8	821.0	824.6	827.9	830.3
748.5	7.5°	762.6	776.1	798.4	816.5	827.9	834.5	839.3	838.1	839.3	839.9
752.1	10°	770.4	789.4	815.9	833.0	841.8	842.1	840.9	836.6	834.5	834.8
757.5	12.5°	779.8	800.8	829.4	843.9	846.3	839.6	834.5	827.3	824.6	823.4
765.6	15°	792.4	816.5	844.2	849.6	843.6	835.1	826.4	814.7	808.7	803.8
779.5	17.5°	807.7	834.2	855.6	851.7	838.7	824.9	810.8	793.0	780.7	775.5
798.4	20°	829.1	852.9	864.3	847.2	827.6	806.5	782.5	760.8	749.4	744.2
822.5	22.5°	855.0	877.9	872.8	839.3	811.7	778.0	747.9	731.9	726.2	722.6
853.5	25°	886.0	905.6	878.8	827.9	785.5	740.0	716.9	711.7	709.0	706.3
891.4	27.5°	926.3	936.9	883.3	811.1	744.5	699.7	691.3	692.2	691.3	686.8
944.1	30°	979.6	977.5	887.5	783.7	697.6	663.3	663.9	667.8	668.4	665.4
1017.5	32.5°	1049.7	1028.3	889.6	748.2	652.8	631.4	632.0	636.2	639.2	634.1
1113.5	35°	1134.6	1087.6	886.3	703.6	618.2	601.0	596.5	597.7	598.6	593.8
1230.0	37.5°	1233.6	1154.1	871.5	654.3	589.6	571.2	561.6	553.4	548.6	544.1
1361.8	40°	1342.2	1226.7	844.5	606.1	557.7	539.6	525.2	509.8	493.6	487.5
1501.4	42.5°	1456.0	1301.3	811.7	560.1	520.9	506.2	490.8	468.6	444.2	431.9
1646.5	45°	1574.0	1377.7	779.5	514.6	483.3	477.0	459.2	432.5	406.0	390.3
1791.9	47.5°	1689.5	1450.0	732.2	468.9	448.1	455.0	441.2	416.5	387.0	362.3
1936.0	50°	1800.0	1517.7	654.9	422.5	419.5	448.4	435.2	399.7	366.0	334.4
2077.5	52.5°	1909.5	1572.5	555.9	380.4	404.2	446.6	427.3	388.2	347.0	313.9
2210.5	55°	2002.5	1600.8	460.5	344.3	381.9	431.3	418.0	374.7	320.2	285.0
2301.7	57.5°	2055.5	1577.9	381.0	308.8	351.2	406.0	402.1	345.8	288.3	261.2
2319.4	60°	2032.6	1485.2	316.0	277.8	322.0	378.6	374.4	317.2	263.9	238.4
2224.3	62.5°	1906.5	1308.5	264.5	250.7	295.5	350.6	346.7	295.2	245.3	220.6
1971.8	65°	1652.5	1064.5	224.5	228.1	268.7	316.9	322.6	276.9	230.5	206.5
1525.5	67.5°	1260.4	771.0	193.2	208.6	242.6	283.8	300.3	263.6	218.2	195.3
882.7	70°	718.4	437.9	166.7	189.6	219.4	253.1	283.2	253.1	204.9	186.0
330.7	72.5°	272.4	201.0	144.2	170.6	197.1	227.2	264.2	236.5	189.6	175.5
170.9	75°	145.4	122.5	121.3	148.4	171.5	201.9	240.5	220.3	178.2	185.4
118.3	77.5°	99.0	86.7	101.4	127.0	143.6	173.9	215.2	195.6	154.4	153.8
81.9	80°	68.6	61.4	82.5	102.3	111.1	146.3	187.8	167.9	125.8	117.4
50.6	82.5°	41.2	40.0	61.7	76.4	78.5	112.9	155.6	140.8	102.9	89.7
30.1	85°	22.6	23.8	39.4	44.8	45.7	78.8	121.9	108.9	79.1	66.5
10.8	87.5°	6.3	8.1	14.4	17.8	22.0	40.9	72.5	64.7	39.7	27.7
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>
741.8
796.3
830.9
840.9
835.4
822.8
805.3
775.8
743.6
723.2
706.3
687.7
666.9
636.5
597.1
547.1
490.2
433.4
389.1
359.6
331.6
310.3
282.0
257.6
234.7
216.7
202.5
191.7
183.6
173.0
191.4
141.7
112.3
90.3
67.1
27.7
0.0

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