

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: P939379

Luminaire Tested: **GALN-SB1D-940-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939379
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-SB1D-940-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7291 lumens
Efficiency: N/A
Efficacy: 91.6 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

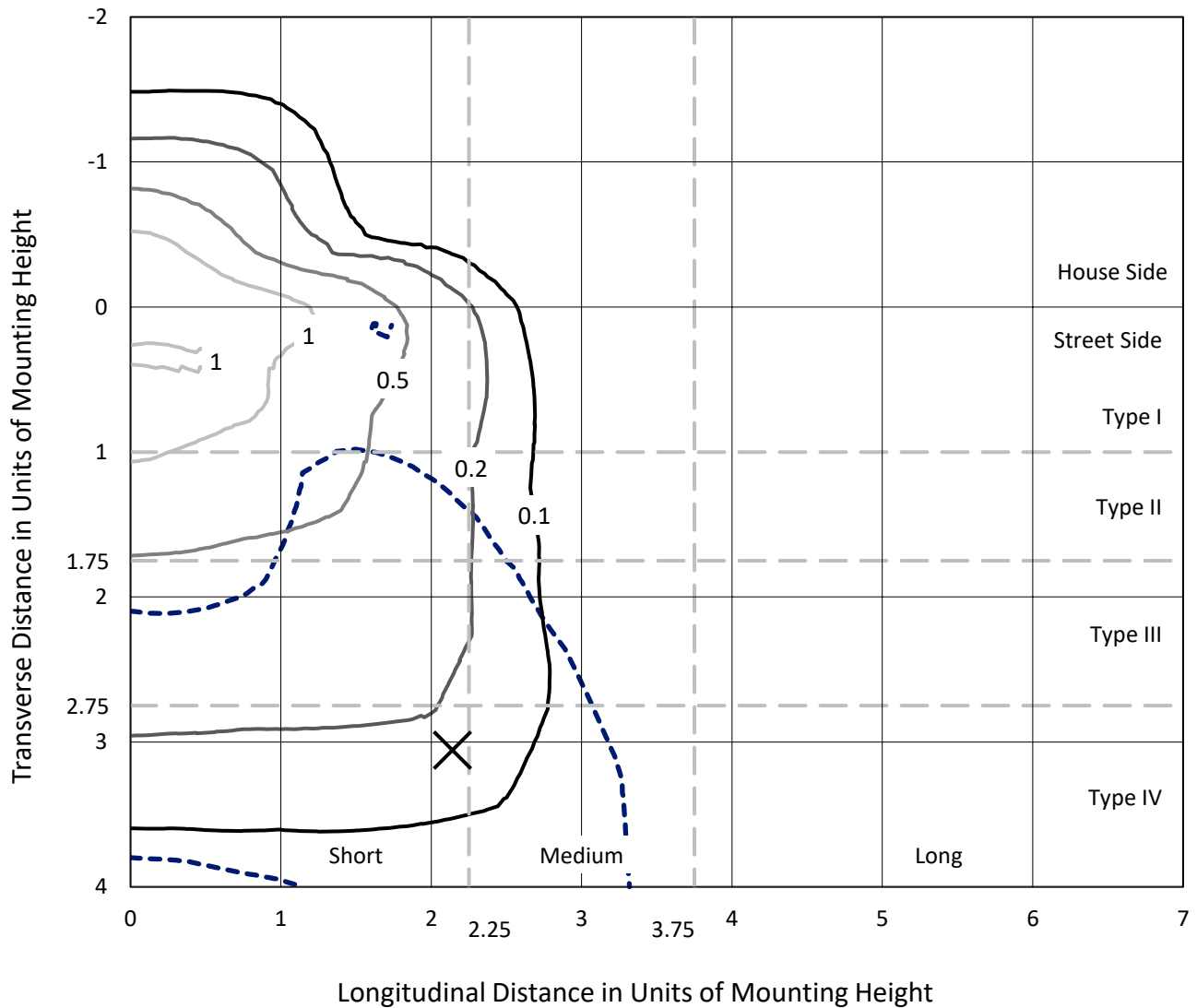
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

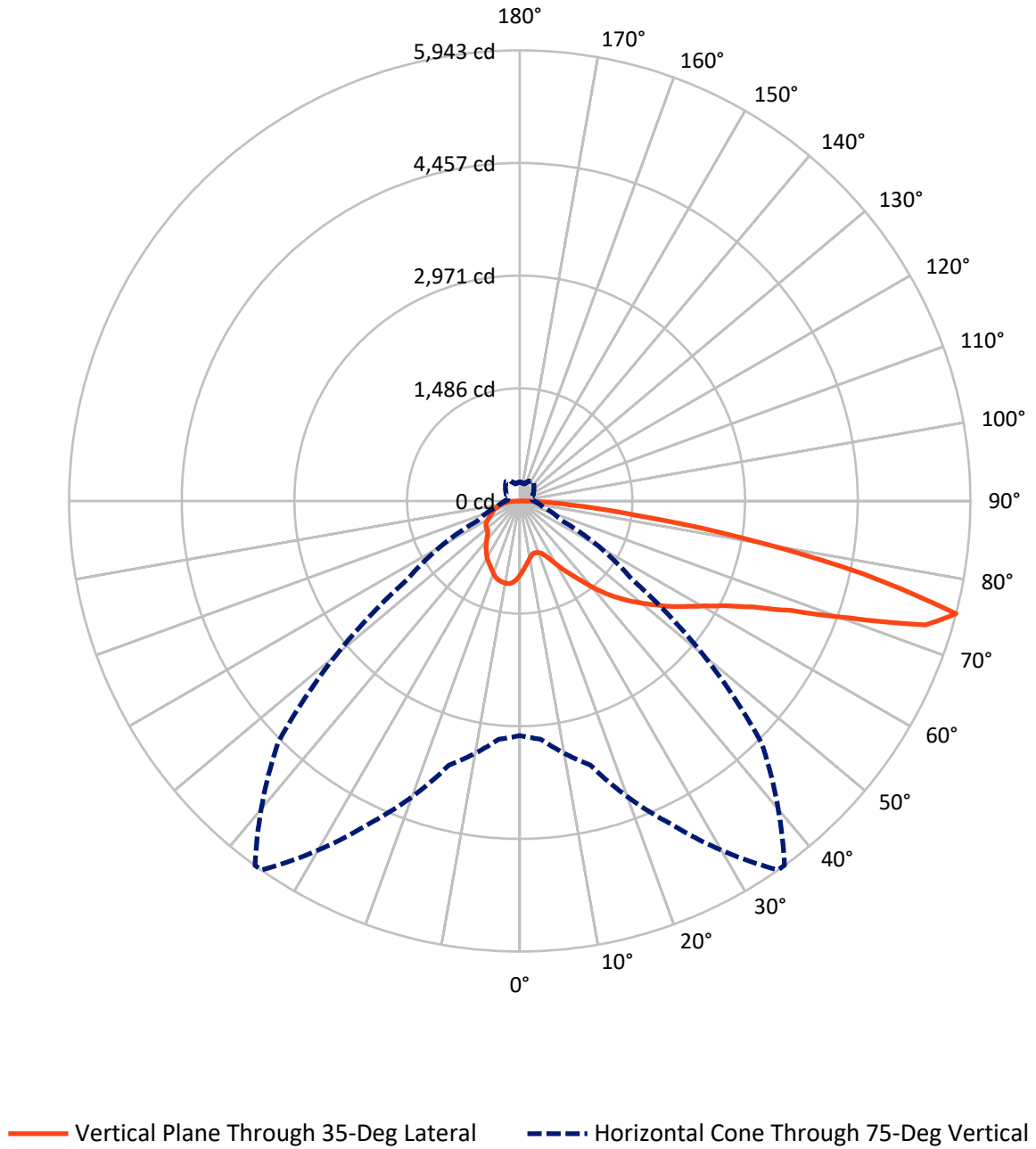
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	1735.1	0.0	1735.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	5555.9	0.0	5555.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	7291.0	0.0	7291.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	1.3
10°-20°	265.3	3.6
20°-30°	445.6	6.1
30°-40°	692.5	9.5
40°-50°	1027.8	14.1
50°-60°	1419.0	19.5
60°-70°	1721.5	23.6
70°-80°	1422.7	19.5
80°-90°	204.6	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°	7291.0	100.0
0°-180°	7291.0	100.0

Coefficient of Utilization



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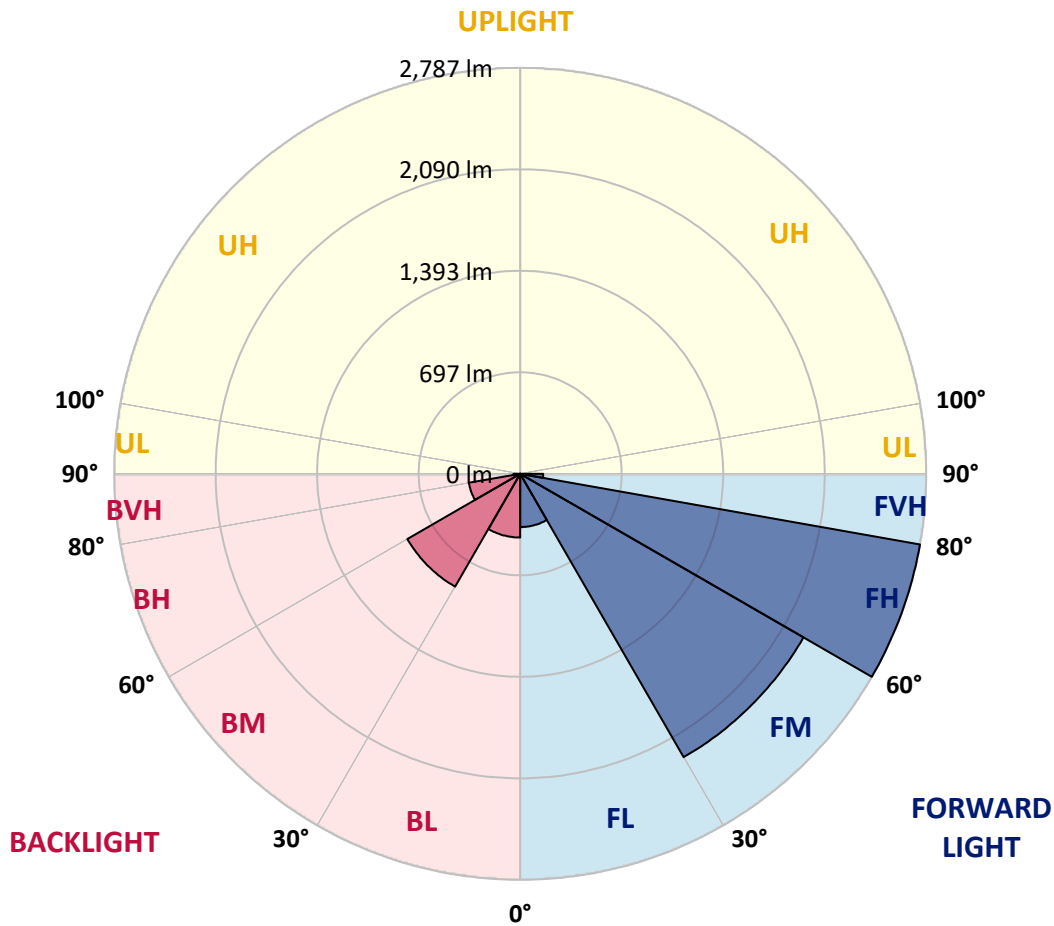
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	365.6	5.0			
FM (30°-60°)	2245.2	30.8			
FH (60°-80°)	2786.5	38.2			G2/5000
FVH (80°-90°)	158.5	2.2			G2/225
BL (0°-30°)	437.3	6.0	B1/500		
BM (30°-60°)	894.0	12.3	B1/1000		
BH (60°-80°)	357.7	4.9	B1/500		G1/500
BVH (80°-90°)	46.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	971.6	971.6	971.6	971.6	971.6	971.6	971.6	971.6	971.6	971.6
2.5°	895.9	901.4	903.8	902.6	908.5	907.7	916.0	926.2	940.4	954.2
5°	826.9	832.8	838.0	842.7	854.1	857.7	870.7	890.4	916.4	942.8
7.5°	762.7	767.8	775.7	784.4	803.7	807.2	828.9	859.6	895.9	934.5
10°	710.3	715.4	723.7	733.5	757.6	761.9	789.5	830.5	877.8	926.6
12.5°	687.8	689.4	694.1	703.9	724.8	727.6	757.9	804.9	860.0	920.7
15°	686.6	689.8	690.2	695.3	712.6	713.8	741.8	788.3	849.0	919.5
17.5°	698.4	700.8	697.2	700.4	715.0	717.0	739.0	780.4	845.4	924.7
20°	730.0	731.9	721.3	717.0	727.6	729.2	750.9	785.5	849.0	935.3
22.5°	797.0	798.1	772.1	754.4	755.2	756.0	774.9	806.4	862.8	954.6
25°	901.4	900.6	859.2	825.0	805.2	800.9	813.5	840.3	886.0	980.2
27.5°	1023.6	1017.7	976.3	925.1	882.1	875.8	873.0	884.5	919.2	1014.1
30°	1161.6	1156.0	1111.5	1044.5	985.0	974.7	948.7	942.8	968.4	1060.3
32.5°	1312.9	1309.4	1256.2	1175.0	1095.3	1083.5	1039.8	1024.0	1044.1	1130.0
35°	1439.8	1436.7	1392.5	1309.0	1211.6	1197.0	1152.5	1134.8	1145.0	1219.5
37.5°	1554.5	1552.9	1515.1	1449.3	1348.8	1331.0	1281.0	1275.1	1273.1	1337.3
40°	1660.9	1657.0	1617.6	1582.9	1508.4	1492.2	1448.1	1443.0	1428.0	1482.4
42.5°	1778.8	1768.5	1711.4	1695.2	1675.1	1661.7	1635.3	1636.1	1603.0	1646.0
45°	1875.0	1869.1	1810.3	1800.9	1822.5	1817.0	1839.9	1845.8	1781.5	1817.4
47.5°	1978.2	1972.7	1923.0	1916.3	1975.1	1976.7	2057.5	2059.4	1955.8	1995.6
50°	2105.5	2097.7	2048.4	2056.7	2122.5	2128.4	2276.2	2262.8	2116.2	2176.5
52.5°	2189.5	2194.2	2183.6	2197.0	2286.8	2292.4	2491.4	2457.1	2275.0	2355.0
55°	2251.4	2260.8	2293.9	2324.7	2460.3	2465.8	2694.4	2642.0	2406.7	2520.6
57.5°	2331.0	2317.6	2379.5	2439.4	2625.0	2639.6	2891.9	2820.1	2523.3	2663.3
60°	2445.3	2435.8	2483.9	2572.6	2809.5	2832.7	3100.8	2980.5	2608.9	2776.4
62.5°	2677.1	2653.4	2660.9	2739.3	3042.0	3072.8	3336.5	3120.5	2651.4	2820.5
65°	3023.5	2982.9	2945.1	2999.5	3369.6	3399.9	3602.5	3230.4	2635.7	2735.0
67.5°	3459.8	3419.6	3373.1	3424.4	3852.0	3876.1	3930.8	3292.3	2511.5	2405.5
70°	3819.7	3804.7	3860.3	4071.2	4622.6	4623.4	4351.8	3241.1	2171.4	1705.5
72.5°	3772.0	3762.9	4055.8	4707.7	5593.7	5572.9	4750.3	2853.2	1462.7	769.4
75°	3094.5	3153.2	3606.8	4696.3	5942.6	5939.8	4506.3	1813.9	605.0	318.9
77.5°	1659.4	1752.4	2341.6	3467.3	4639.1	4708.9	3168.2	634.6	259.7	204.2
80°	541.2	622.4	933.3	1765.4	3014.4	3001.4	1357.8	249.1	177.8	144.7
82.5°	229.8	239.2	417.0	833.6	1547.0	1523.0	432.4	143.1	124.9	98.9
85°	89.9	100.5	184.1	385.5	670.1	655.5	156.1	70.9	80.0	64.6
87.5°	29.6	35.9	65.8	132.0	208.5	201.0	38.2	24.4	34.7	29.6
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°
971.6	0°	971.6	971.6	971.6	971.6	971.6	971.6	971.6	971.6	971.6	971.6
974.3	2.5°	979.9	986.2	993.6	1004.7	1014.1	1022.0	1030.3	1035.4	1037.4	1043.3
975.9	5°	986.9	1000.7	1019.3	1037.4	1055.1	1065.8	1075.2	1080.0	1084.3	1087.5
980.2	7.5°	998.8	1016.5	1045.7	1069.3	1084.3	1093.0	1099.3	1097.7	1099.3	1100.1
985.0	10°	1009.0	1033.9	1068.5	1091.0	1102.4	1102.8	1101.2	1095.7	1093.0	1093.4
992.1	12.5°	1021.2	1048.8	1086.3	1105.2	1108.3	1099.7	1093.0	1083.5	1080.0	1078.4
1002.7	15°	1037.8	1069.3	1105.6	1112.7	1104.8	1093.8	1082.3	1067.0	1059.1	1052.8
1020.8	17.5°	1057.9	1092.6	1120.6	1115.4	1098.5	1080.4	1061.8	1038.6	1022.4	1015.7
1045.7	20°	1085.9	1117.0	1132.0	1109.5	1083.9	1056.3	1024.8	996.4	981.4	974.7
1077.2	22.5°	1119.8	1149.7	1143.0	1099.3	1063.0	1018.9	979.5	958.6	951.1	946.3
1117.8	25°	1160.4	1186.0	1150.9	1084.3	1028.7	969.2	938.9	932.2	928.6	925.1
1167.5	27.5°	1213.2	1227.0	1156.8	1062.2	975.1	916.4	905.4	906.5	905.4	899.4
1236.4	30°	1283.0	1280.2	1162.3	1026.4	913.6	868.7	869.5	874.6	875.4	871.5
1332.6	32.5°	1374.8	1346.8	1165.1	979.9	854.9	826.9	827.7	833.2	837.2	830.5
1458.3	35°	1485.9	1424.5	1160.8	921.5	809.6	787.1	781.2	782.8	784.0	777.7
1610.9	37.5°	1615.6	1511.6	1141.5	856.9	772.1	748.1	735.5	724.8	718.5	712.6
1783.5	40°	1757.9	1606.5	1106.0	793.8	730.4	706.7	687.8	667.7	646.4	638.5
1966.4	42.5°	1906.9	1704.3	1063.0	733.5	682.3	663.0	642.9	613.7	581.8	565.6
2156.4	45°	2061.4	1804.4	1020.8	674.0	633.0	624.7	601.5	566.4	531.7	511.2
2346.8	47.5°	2212.7	1899.0	959.0	614.1	586.9	596.0	577.8	545.5	506.9	474.6
2535.6	50°	2357.4	1987.7	857.7	553.4	549.4	587.3	569.9	523.4	479.3	437.9
2720.8	52.5°	2500.9	2059.4	728.0	498.2	529.3	584.9	559.7	508.5	454.5	411.1
2895.0	55°	2622.7	2096.5	603.0	450.9	500.2	564.8	547.5	490.7	419.4	373.3
3014.4	57.5°	2692.0	2066.5	499.0	404.4	460.0	531.7	526.6	452.9	377.6	342.1
3037.7	60°	2662.1	1945.1	413.9	363.8	421.7	495.8	490.3	415.4	345.7	312.2
2913.1	62.5°	2496.9	1713.8	346.5	328.3	387.1	459.2	454.1	386.7	321.2	288.9
2582.5	65°	2164.3	1394.1	294.0	298.8	352.0	415.0	422.5	362.6	301.9	270.4
1997.9	67.5°	1650.7	1009.8	253.0	273.1	317.7	371.7	393.4	345.3	285.8	255.8
1156.0	70°	940.8	573.5	218.4	248.3	287.3	331.5	370.9	331.5	268.4	243.6
433.2	72.5°	356.7	263.3	188.8	223.5	258.2	297.6	346.1	309.8	248.3	229.8
223.9	75°	190.4	160.4	158.8	194.3	224.7	264.5	314.9	288.5	233.3	242.8
154.9	77.5°	129.7	113.5	132.8	166.3	188.0	227.8	281.8	256.2	202.2	201.4
107.2	80°	89.9	80.4	108.0	134.0	145.4	191.6	245.9	219.9	164.8	153.7
66.2	82.5°	54.0	52.4	80.8	100.1	102.9	147.8	203.8	184.5	134.8	117.5
39.4	85°	29.6	31.1	51.6	58.7	59.9	103.3	159.6	142.7	103.7	87.1
14.2	87.5°	8.3	10.6	18.9	23.3	28.8	53.6	95.0	84.7	52.0	36.3
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>
971.6
1042.9
1088.2
1101.2
1094.2
1077.6
1054.7
1016.1
973.9
947.1
925.1
900.6
873.4
833.6
782.0
716.6
642.1
567.6
509.6
471.0
434.4
406.4
369.3
337.4
307.4
283.8
265.3
251.1
240.4
226.6
250.7
185.6
147.0
118.2
87.9
36.3
0.0

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