

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: P939505

Luminaire Tested: **GALN-SB2A-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939505
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-SB2A-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8502 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

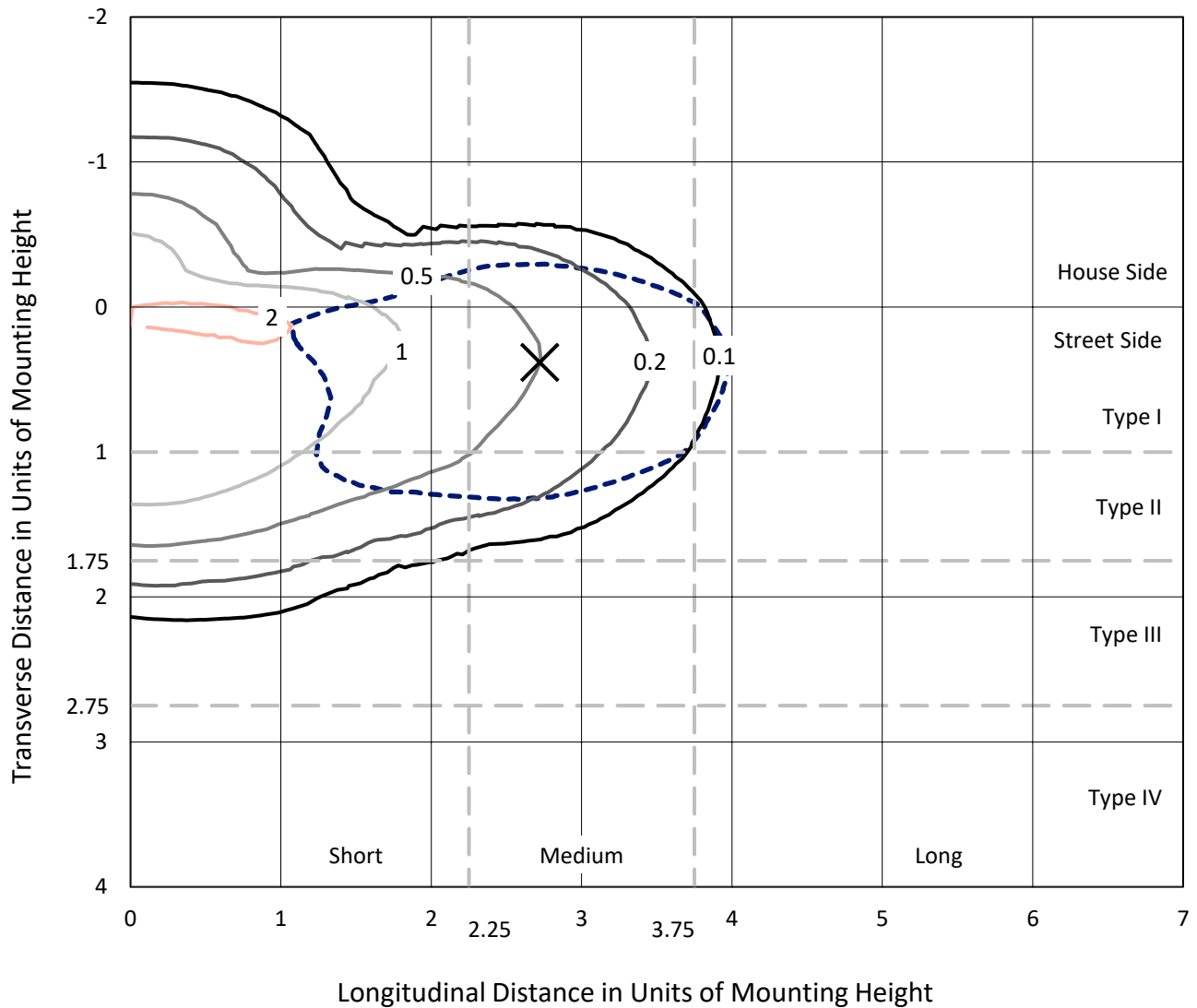
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

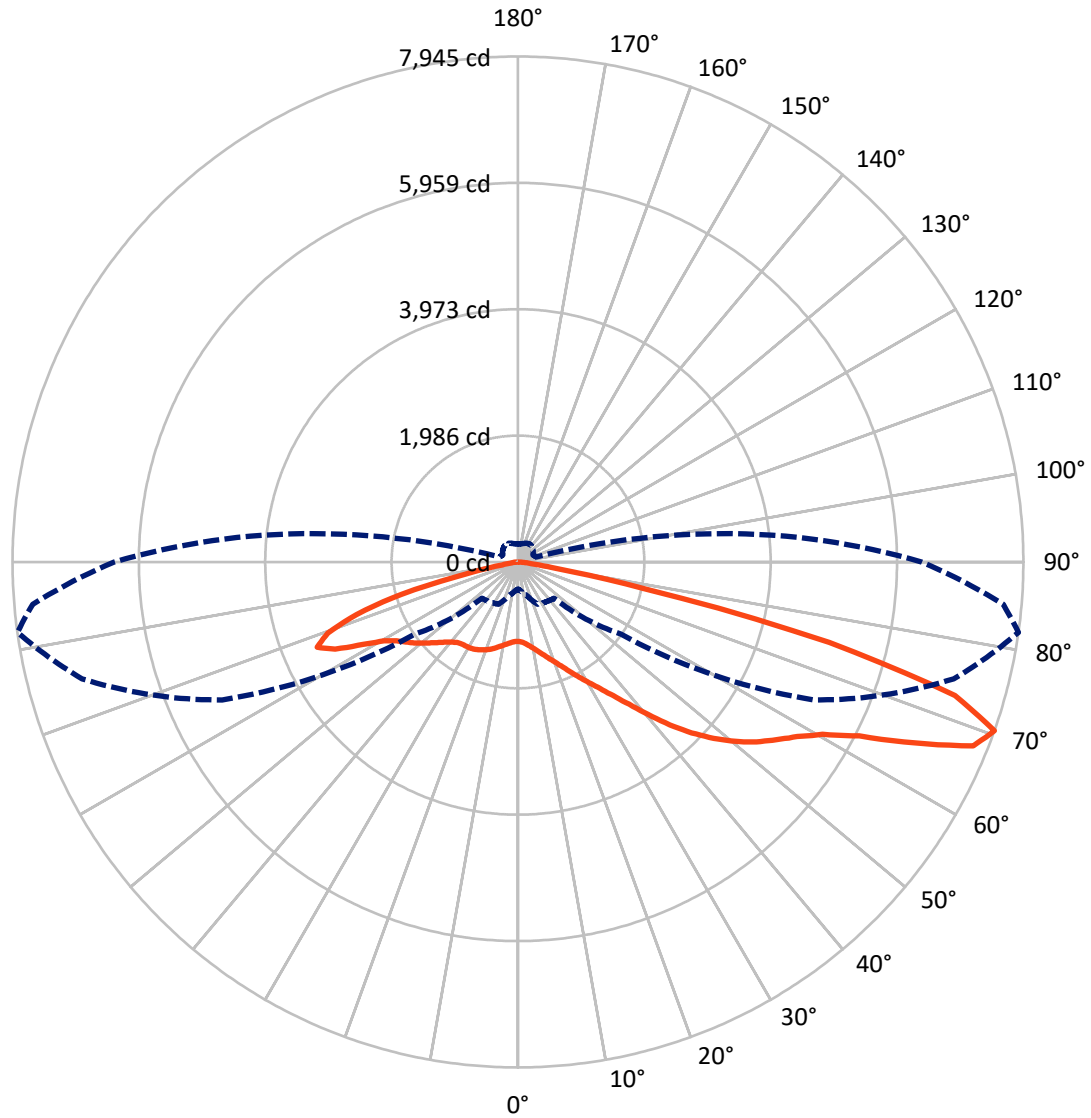
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	2095.9	0.0	2095.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	6406.1	0.0	6406.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	8502.0	0.0	8502.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	1.4
10°-20°	338.1	4.0
20°-30°	565.7	6.7
30°-40°	883.7	10.4
40°-50°	1407.4	16.6
50°-60°	1958.6	23.0
60°-70°	2048.8	24.1
70°-80°	1070.8	12.6
80°-90°	111.2	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°	8502.0	100.0
0°-180°	8502.0	100.0

Coefficient of Utilization



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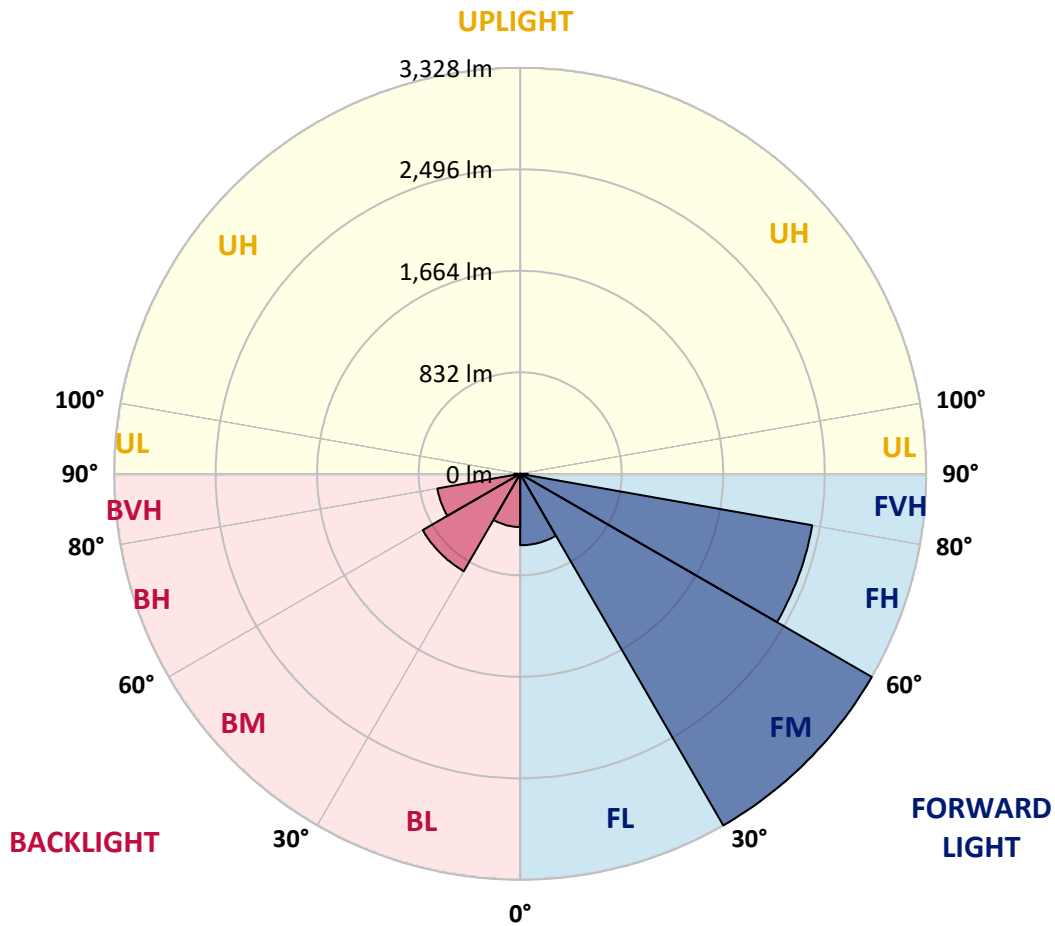
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	585.5	6.9			
FM (30°-60°)	3327.6	39.1			
FH (60°-80°)	2430.8	28.6			G2/5000
FVH (80°-90°)	62.2	0.7			G1/100
BL (0°-30°)	436.0	5.1	B1/500		
BM (30°-60°)	922.1	10.8	B1/1000		
BH (60°-80°)	688.8	8.1	B2/1000		G2/1000
BVH (80°-90°)	48.9	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°	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1276.3	1283.5	1281.2	1279.0	1279.0	1275.8	1275.4	1270.9	1267.3	1261.4
5°	1292.5	1300.2	1299.3	1301.1	1307.0	1308.3	1309.7	1307.0	1299.7	1292.5
7.5°	1278.1	1286.7	1289.4	1300.2	1318.2	1334.5	1346.7	1351.6	1344.8	1334.5
10°	1229.4	1238.8	1248.3	1274.0	1306.0	1344.4	1376.9	1396.3	1394.9	1385.0
12.5°	1130.6	1140.5	1160.8	1210.9	1269.5	1337.2	1397.6	1438.2	1452.2	1445.0
15°	1051.6	1060.2	1075.5	1126.9	1203.2	1306.0	1405.3	1484.3	1519.9	1515.8
17.5°	1049.4	1053.0	1062.4	1086.8	1145.4	1257.3	1397.2	1529.4	1597.5	1597.0
20°	1089.1	1090.4	1095.8	1100.8	1134.2	1220.3	1376.4	1566.8	1684.6	1684.6
22.5°	1144.1	1143.2	1148.6	1144.1	1160.3	1217.2	1363.3	1599.7	1781.6	1788.8
25°	1226.6	1222.1	1220.8	1210.4	1213.6	1246.5	1377.8	1637.2	1896.6	1911.5
27.5°	1336.7	1329.5	1324.5	1300.6	1292.5	1307.0	1422.0	1682.3	2024.7	2050.4
30°	1480.2	1467.1	1459.9	1418.4	1389.1	1391.3	1488.8	1742.3	2158.7	2200.2
32.5°	1676.0	1655.7	1636.3	1568.2	1514.5	1496.9	1574.9	1825.3	2304.0	2370.3
35°	1895.2	1879.0	1858.2	1753.1	1670.6	1630.0	1691.3	1941.3	2474.1	2579.2
37.5°	2106.4	2092.4	2102.3	1960.7	1854.2	1795.1	1843.8	2096.9	2683.8	2839.0
40°	2324.7	2313.9	2315.2	2179.9	2055.8	1989.5	2028.8	2292.2	2924.3	3148.1
42.5°	2562.0	2553.9	2526.8	2406.8	2267.4	2205.6	2241.7	2517.8	3182.3	3499.9
45°	2827.7	2822.8	2797.5	2659.9	2500.2	2430.7	2479.5	2766.8	3441.7	3831.1
47.5°	3057.4	3061.4	3058.3	2942.3	2776.8	2674.8	2733.0	3026.7	3683.1	4142.4
50°	3167.9	3189.1	3220.2	3184.1	3081.3	2977.5	2988.8	3277.5	3913.2	4434.3
52.5°	3110.2	3150.3	3235.1	3292.9	3332.6	3310.9	3280.7	3526.6	4129.7	4697.7
55°	2895.0	2951.4	3092.1	3231.5	3434.1	3591.5	3631.2	3802.7	4340.9	4929.6
57.5°	2502.9	2594.5	2720.8	3002.8	3343.8	3727.3	4040.0	4185.7	4564.6	5177.3
60°	1830.7	1953.4	2110.4	2530.0	3028.1	3654.7	4387.8	4774.0	4882.7	5498.0
62.5°	1171.6	1247.4	1391.8	1787.0	2359.5	3282.5	4494.3	5509.3	5421.8	6024.1
65°	802.1	850.8	983.0	1205.0	1525.3	2443.4	4209.1	6060.6	6278.1	6857.8
67.5°	582.9	619.9	732.7	927.1	993.9	1445.9	3266.3	6035.3	7110.4	7716.7
70°	425.0	451.1	545.9	732.7	764.7	804.4	1978.7	5130.4	7092.4	7945.0
72.5°	314.9	332.9	396.6	568.4	619.0	543.2	979.4	3728.7	6094.4	7186.2
75°	227.8	241.4	288.3	434.9	495.4	413.7	488.6	2179.0	4251.1	5055.0
77.5°	174.1	184.5	215.2	318.5	396.6	310.4	303.2	1002.4	2015.7	2025.6
80°	139.9	146.6	163.3	224.2	304.1	232.3	197.6	404.7	637.0	539.1
82.5°	102.9	114.1	138.0	157.4	217.4	160.2	120.5	204.4	242.3	208.4
85°	58.6	66.3	83.5	112.8	139.0	97.9	69.0	90.7	112.8	92.5
87.5°	20.8	27.1	29.3	44.2	60.5	40.6	26.6	26.2	37.0	27.5
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°
1246.5	0°	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5
1260.0	2.5°	1255.5	1253.3	1244.2	1232.1	1219.4	1207.3	1203.2	1194.6	1188.8	1185.6
1289.4	5°	1280.8	1273.6	1252.4	1225.3	1196.9	1166.2	1144.5	1124.7	1110.3	1096.7
1329.5	7.5°	1316.9	1304.2	1267.7	1220.3	1169.8	1118.8	1080.9	1052.1	1032.7	1020.0
1376.4	10°	1358.8	1339.4	1283.5	1212.7	1134.6	1061.5	1016.9	992.1	979.9	973.1
1430.1	12.5°	1407.1	1379.6	1299.7	1195.1	1080.9	997.5	966.8	959.6	960.0	960.5
1497.8	15°	1466.7	1428.3	1312.8	1156.7	1011.0	948.3	942.9	954.6	966.8	972.7
1574.5	17.5°	1533.9	1479.7	1315.1	1093.6	942.4	916.7	933.9	959.1	977.6	985.7
1660.2	20°	1606.1	1532.1	1298.8	1004.2	886.0	891.0	921.7	954.2	974.5	984.8
1758.1	22.5°	1688.6	1588.0	1260.0	910.4	840.0	863.0	899.1	930.7	951.9	962.3
1873.1	25°	1782.9	1650.7	1199.1	831.5	800.3	831.5	867.5	893.7	910.9	920.3
2001.7	27.5°	1887.6	1716.1	1117.9	768.7	765.6	799.0	828.7	849.0	858.1	865.3
2138.4	30°	1992.7	1775.7	1019.6	721.4	735.4	766.9	788.1	797.2	799.9	801.2
2290.9	32.5°	2106.4	1827.1	916.3	682.1	706.5	735.8	748.4	752.5	739.9	731.3
2475.9	35°	2244.0	1882.2	815.2	651.0	678.1	703.3	707.4	703.8	688.9	671.3
2707.7	37.5°	2414.0	1950.7	734.5	628.9	651.4	668.1	663.2	662.3	663.6	642.9
2986.5	40°	2622.5	2040.1	675.4	611.7	629.8	633.4	619.4	627.1	633.9	602.3
3292.4	42.5°	2853.9	2147.9	637.9	600.0	611.7	603.2	581.5	590.1	589.2	547.7
3599.6	45°	3089.9	2265.2	624.8	591.4	595.1	577.9	554.0	556.3	537.3	499.9
3894.2	47.5°	3324.4	2391.0	632.9	584.2	574.3	554.9	536.4	526.5	498.5	470.5
4176.7	50°	3554.5	2523.2	662.7	569.8	545.9	534.6	521.1	503.5	473.7	449.8
4443.7	52.5°	3767.9	2656.3	696.1	545.9	510.2	517.0	508.4	488.1	458.8	434.4
4696.4	55°	3970.0	2789.4	709.2	512.9	476.9	501.7	496.7	459.3	424.1	404.2
4960.7	57.5°	4190.2	2949.6	694.8	471.0	449.8	484.1	465.1	423.6	403.3	388.4
5305.0	60°	4495.2	3200.8	663.6	419.1	424.1	457.9	425.4	408.3	386.2	369.5
5821.1	62.5°	5001.8	3669.6	613.6	367.7	393.8	419.1	406.5	389.3	366.8	350.5
6703.5	65°	5750.7	4321.0	519.3	327.5	360.0	381.2	386.2	369.0	345.6	328.4
7476.7	67.5°	6382.3	4729.8	392.9	294.1	325.3	350.5	364.5	347.8	323.0	306.3
7657.6	70°	6347.5	4432.9	300.0	261.2	294.6	320.3	338.4	325.3	298.7	282.9
6955.7	72.5°	5637.9	3708.4	242.7	227.8	263.5	288.7	310.4	300.5	273.4	258.1
5095.6	75°	4141.9	2632.4	194.0	194.0	224.7	255.8	279.7	273.4	248.6	237.8
2139.3	77.5°	1745.9	1104.4	152.0	161.1	186.8	219.7	249.5	251.7	230.1	243.6
565.7	80°	464.2	304.5	115.9	126.8	146.6	181.4	217.0	216.1	192.6	180.0
210.2	82.5°	176.8	120.0	82.6	89.3	106.0	139.0	171.9	177.3	153.8	133.1
82.6	85°	68.1	51.4	51.0	53.7	61.8	92.0	129.9	134.4	115.9	98.3
23.0	87.5°	17.6	15.3	18.9	18.0	28.4	49.2	74.4	77.1	70.8	41.1
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>
1246.5
1189.2
1102.1
1022.7
974.9
961.4
972.2
987.5
987.5
965.0
923.0
868.0
804.4
734.0
672.2
644.2
603.2
547.2
501.2
470.5
448.0
434.9
402.4
387.1
368.6
350.5
329.3
306.8
284.2
258.1
234.6
221.1
167.4
133.1
101.5
58.6
0.0

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