

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: P946969

Luminaire Tested: **GALN-SB2B-950-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-950-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8042 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

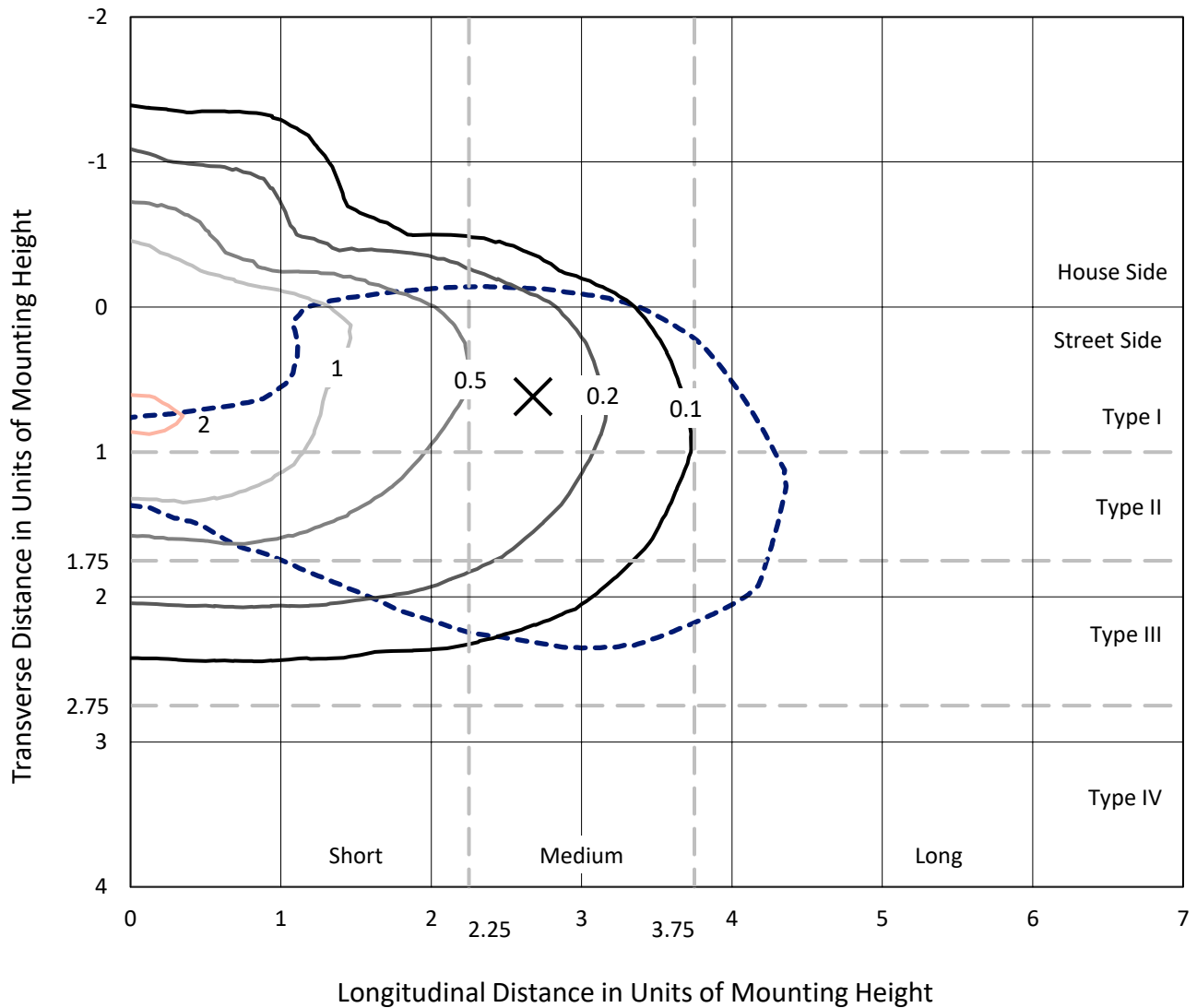
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

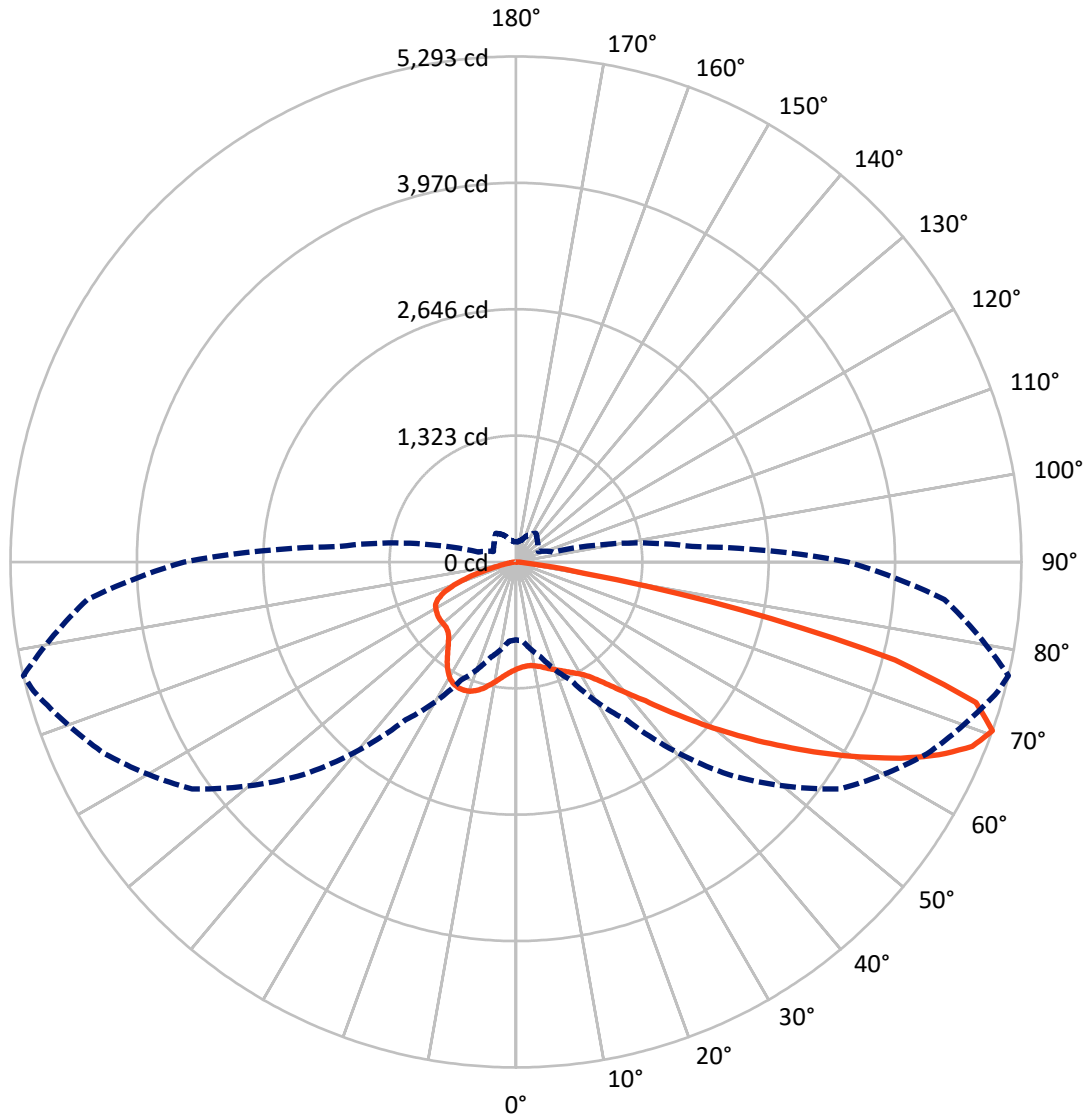
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1761.1	0.0	1761.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	6280.9	0.0	6280.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	8042.0	0.0	8042.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	1.3
10°-20°	308.8	3.8
20°-30°	528.1	6.6
30°-40°	849.3	10.6
40°-50°	1325.9	16.5
50°-60°	1771.1	22.0
60°-70°	1887.8	23.5
70°-80°	1162.1	14.5
80°-90°	101.8	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°	8042.0	100.0
0°-180°	8042.0	100.0

Coefficient of Utilization



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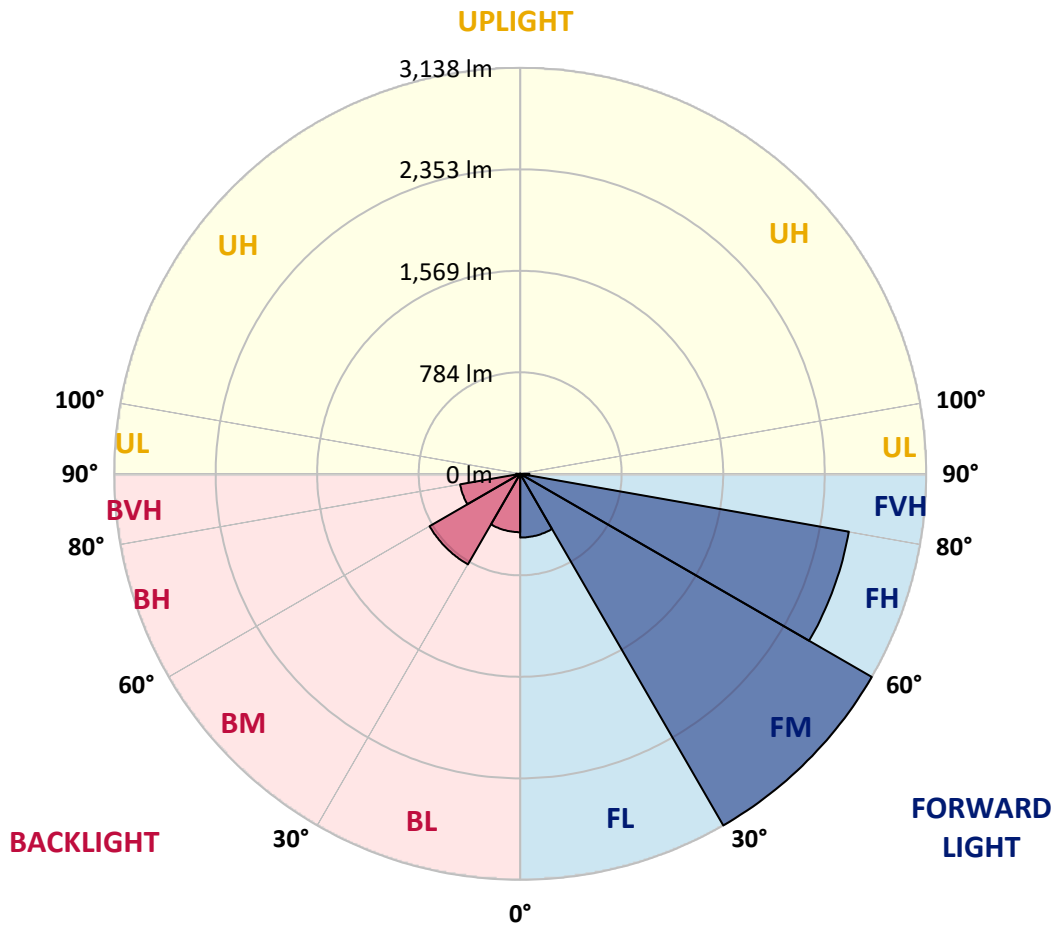
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	492.7	6.1			
FM (30°-60°)	3137.8	39.0			
FH (60°-80°)	2579.2	32.1			G2/5000
FVH (80°-90°)	71.2	0.9			G1/100
BL (0°-30°)	451.2	5.6	B1/500		
BM (30°-60°)	808.5	10.1	B1/1000		
BH (60°-80°)	470.7	5.9	B1/500		G1/500
BVH (80°-90°)	30.6	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1121.9	1121.9	1121.9	1121.9	1121.9	1121.9	1121.9	1121.9	1121.9	1121.9
2.5°	1034.2	1033.8	1039.1	1040.8	1050.7	1057.7	1070.9	1084.9	1103.0	1105.0
5°	974.5	974.5	980.7	987.3	1000.0	1014.0	1034.2	1058.5	1089.8	1094.7
7.5°	923.8	927.1	932.5	945.2	960.1	980.2	1011.1	1045.7	1086.9	1094.7
10°	883.0	886.8	893.3	903.6	925.9	953.9	994.3	1038.7	1093.9	1106.3
12.5°	870.3	874.0	877.7	885.5	906.1	939.1	987.3	1042.0	1110.8	1123.2
15°	899.9	904.5	901.6	899.5	910.2	940.3	990.5	1054.0	1131.8	1149.5
17.5°	968.3	970.0	963.4	944.0	942.4	958.4	1006.2	1070.4	1158.2	1177.5
20°	1078.7	1075.8	1062.2	1023.9	1002.1	998.8	1033.0	1095.2	1185.4	1206.0
22.5°	1228.6	1225.3	1198.1	1137.6	1089.0	1056.9	1071.7	1127.3	1215.8	1238.9
25°	1415.6	1411.1	1371.1	1288.7	1213.4	1133.9	1124.4	1169.7	1253.3	1274.7
27.5°	1633.9	1630.2	1586.9	1478.2	1369.5	1239.3	1189.9	1219.5	1292.4	1316.7
30°	1868.7	1879.4	1802.8	1685.8	1548.2	1376.9	1278.0	1280.9	1343.1	1364.9
32.5°	2144.6	2163.1	2070.9	1922.6	1734.8	1526.4	1389.2	1366.6	1416.8	1435.0
35°	2418.1	2439.1	2362.5	2198.6	1982.3	1702.7	1505.4	1465.0	1514.9	1534.6
37.5°	2654.5	2682.5	2643.0	2500.5	2247.2	1915.2	1657.0	1580.8	1635.5	1660.2
40°	2841.1	2883.9	2881.0	2792.1	2559.4	2173.0	1849.3	1723.7	1785.5	1812.2
42.5°	2992.6	3029.7	3061.8	3057.3	2885.1	2465.9	2075.4	1909.4	1956.4	1987.3
45°	3097.3	3136.8	3206.0	3280.5	3198.6	2779.3	2334.5	2129.8	2172.6	2219.2
47.5°	3190.8	3235.6	3325.4	3443.6	3464.6	3094.0	2618.3	2386.4	2425.5	2473.7
50°	3199.0	3237.7	3376.9	3544.5	3653.7	3396.3	2923.0	2674.3	2710.9	2762.4
52.5°	3000.1	3061.0	3304.0	3541.7	3740.6	3649.2	3225.8	2973.7	3014.9	3076.7
55°	2328.7	2418.1	3090.3	3431.3	3709.7	3812.7	3513.7	3292.1	3344.8	3409.5
57.5°	2005.8	2044.9	2453.1	3230.3	3568.8	3855.1	3756.7	3613.7	3698.6	3769.4
60°	1802.8	1835.3	2076.6	2917.7	3383.5	3788.0	3944.5	3913.6	4060.2	4144.6
62.5°	1585.3	1616.2	1835.7	2436.2	3146.3	3676.3	4063.1	4190.4	4430.9	4523.2
65°	1369.5	1395.8	1606.3	2047.0	2844.8	3564.7	4124.5	4429.7	4774.0	4869.5
67.5°	1128.9	1150.8	1349.7	1727.0	2478.2	3411.9	4154.9	4617.9	5072.6	5154.5
70°	814.7	831.6	1037.1	1365.8	2018.2	3149.2	4142.6	4751.3	5227.4	5292.9
72.5°	385.1	400.3	641.7	886.8	1425.5	2637.6	3892.6	4645.5	5070.1	5037.6
75°	205.5	218.7	368.6	486.4	752.9	1808.1	3185.4	4001.7	4257.5	4099.3
77.5°	139.2	149.5	228.2	292.0	343.9	858.3	2047.4	2770.6	2665.6	2404.5
80°	110.4	121.1	187.0	197.7	166.4	310.1	846.0	1282.6	921.4	736.8
82.5°	84.8	96.8	157.3	143.3	90.6	127.3	246.3	405.7	236.0	179.6
85°	51.9	64.7	123.6	91.4	51.1	58.1	83.6	112.9	72.1	60.1
87.5°	26.4	37.1	62.6	33.4	23.1	13.6	22.2	22.2	18.9	16.5
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°
1121.9	0°	1121.9	1121.9	1121.9	1121.9	1121.9	1121.9	1121.9	1121.9	1121.9	1121.9
1116.2	2.5°	1126.1	1134.3	1148.3	1161.5	1171.8	1181.7	1191.5	1196.9	1198.5	1205.1
1122.3	5°	1139.2	1154.5	1181.7	1207.2	1223.3	1233.1	1240.1	1244.3	1245.1	1247.1
1139.2	7.5°	1163.5	1187.8	1225.7	1251.3	1263.2	1262.4	1259.5	1249.2	1245.1	1241.4
1163.9	10°	1197.7	1229.8	1276.4	1294.1	1286.7	1266.9	1241.4	1211.3	1197.3	1183.7
1197.7	12.5°	1240.1	1280.9	1326.6	1325.8	1289.2	1238.5	1179.2	1133.1	1103.8	1082.8
1239.3	15°	1291.6	1338.6	1373.6	1345.6	1265.3	1174.2	1087.3	1027.2	1000.8	977.8
1281.3	17.5°	1344.8	1395.0	1411.1	1339.4	1205.1	1079.1	980.7	933.3	907.3	895.0
1326.6	20°	1396.6	1446.5	1433.3	1304.0	1113.7	971.2	883.5	857.5	852.2	855.0
1370.7	22.5°	1451.4	1495.9	1437.8	1235.6	997.1	860.8	812.6	813.4	825.4	834.0
1416.8	25°	1507.4	1537.5	1425.9	1136.8	871.9	779.7	767.7	780.9	804.4	821.3
1468.7	27.5°	1561.4	1574.6	1399.9	1014.4	764.4	721.6	723.7	750.8	786.3	809.7
1531.7	30°	1622.4	1607.5	1350.1	876.9	689.9	671.8	689.1	720.8	756.2	777.2
1611.2	32.5°	1691.1	1635.9	1271.0	749.6	637.2	631.8	660.2	680.8	696.5	702.6
1716.7	35°	1776.8	1675.9	1169.7	660.2	589.8	602.6	629.7	619.5	613.3	610.0
1858.4	37.5°	1888.0	1729.9	1051.1	602.2	551.5	581.6	592.7	560.6	536.3	524.3
2030.1	40°	2021.9	1808.9	937.0	557.3	527.2	563.4	544.1	505.4	474.5	457.6
2223.3	42.5°	2170.6	1891.7	841.0	523.5	513.6	548.6	508.2	462.1	412.3	406.9
2453.5	45°	2326.7	1977.0	775.6	497.5	507.0	535.8	487.7	413.1	377.7	399.5
2684.6	47.5°	2482.7	2055.2	736.0	478.2	503.7	521.4	469.5	385.9	360.8	392.5
2932.1	50°	2656.6	2125.2	718.3	464.2	500.0	515.7	442.3	378.9	343.1	364.1
3188.3	52.5°	2829.1	2179.6	705.1	450.2	494.7	511.1	429.2	370.7	321.7	322.9
3446.1	55°	3001.3	2215.0	690.7	431.6	482.7	501.2	427.9	361.6	305.6	299.8
3718.8	57.5°	3185.0	2235.2	673.0	411.0	462.1	476.1	426.7	354.6	300.7	291.2
3997.6	60°	3372.0	2264.9	649.9	385.9	434.5	446.1	423.8	352.1	297.8	281.7
4260.4	62.5°	3539.6	2275.2	622.3	362.0	399.1	416.4	417.6	350.1	290.0	262.4
4478.7	65°	3649.6	2230.7	574.1	334.8	360.8	385.9	405.7	343.1	276.0	248.4
4586.6	67.5°	3645.0	2103.8	498.8	299.8	323.7	352.1	388.4	331.1	259.1	231.1
4505.0	70°	3475.4	1853.4	403.2	259.1	283.0	315.9	366.2	313.4	238.9	212.1
4005.8	72.5°	2980.7	1450.6	292.8	211.3	235.6	278.4	337.3	292.0	218.3	195.2
2960.5	75°	2129.4	918.1	198.5	162.3	183.3	236.0	301.5	266.9	199.3	196.0
1482.7	77.5°	1087.7	438.6	131.4	118.6	127.7	186.2	253.3	238.5	202.2	161.9
421.8	80°	353.8	161.9	82.8	80.7	84.8	124.0	196.0	195.6	153.2	110.0
102.1	82.5°	112.9	69.6	54.0	51.9	49.8	77.8	136.7	154.9	103.4	69.6
36.7	85°	44.9	41.6	31.7	29.2	21.0	36.7	71.7	103.0	77.0	50.2
9.5	87.5°	16.5	16.5	8.6	6.2	4.5	12.4	19.4	30.9	44.1	25.9
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>
1121.9
1208.8
1250.4
1242.2
1179.6
1077.9
975.3
898.7
853.8
836.1
825.8
815.5
782.1
705.9
613.3
527.2
458.8
412.3
411.0
407.3
379.7
331.6
304.0
292.4
283.0
262.4
248.4
232.3
214.6
194.0
184.9
144.2
97.2
69.2
51.5
25.5
0.0

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