

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: P946223

Luminaire Tested: **GALN-SB1D-940-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
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-SL3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5940 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

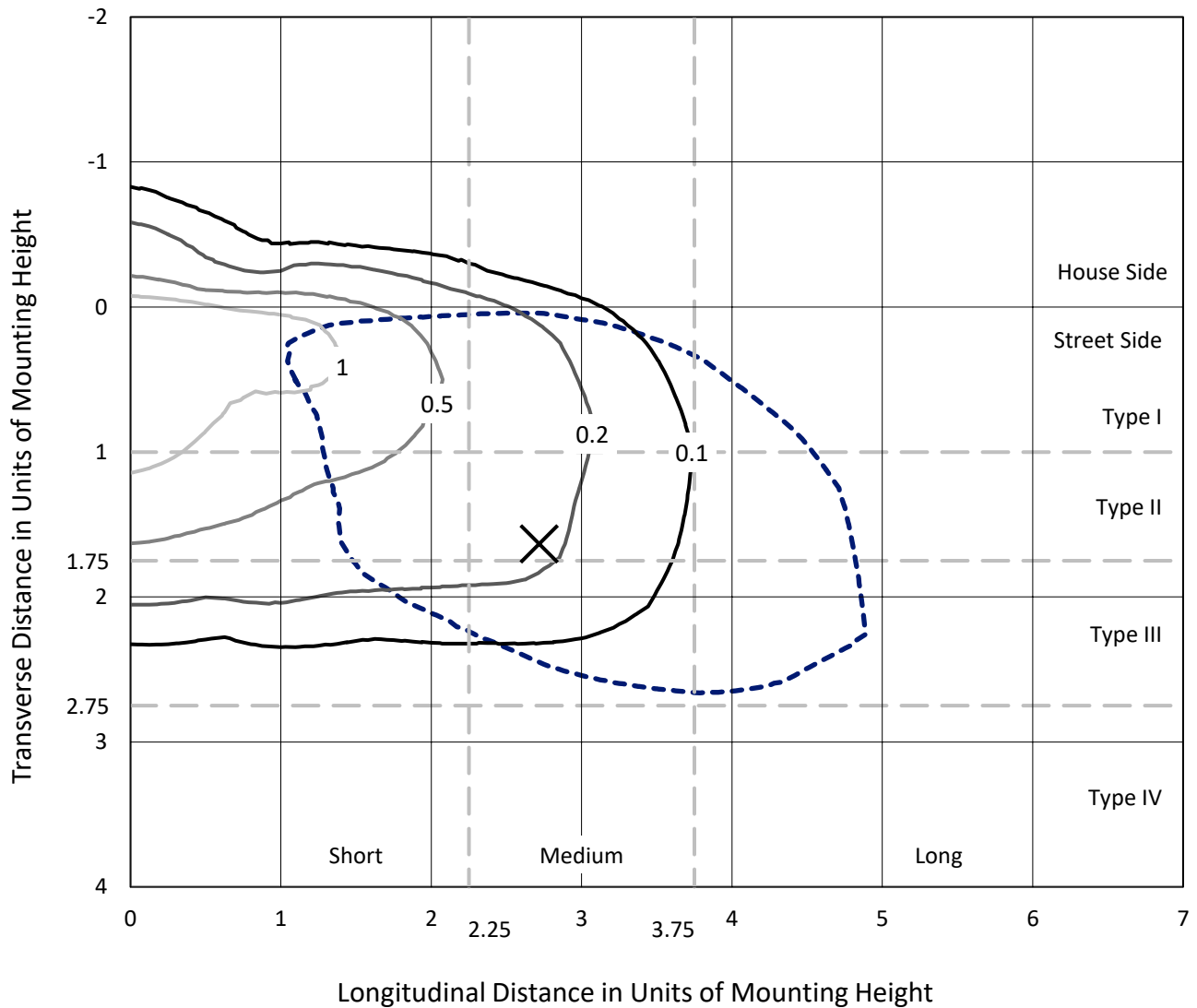
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

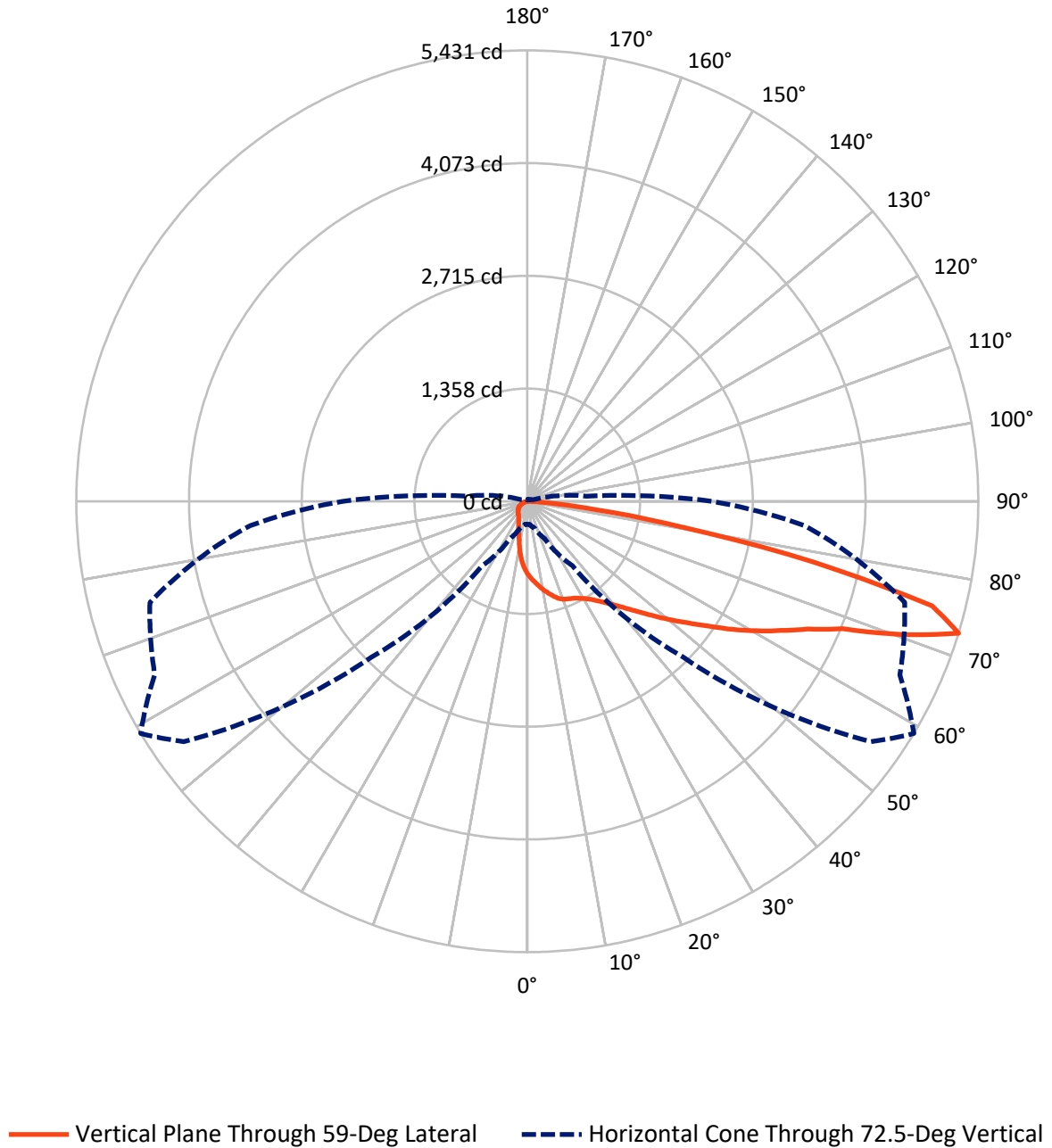
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	627.4	0.0	627.4
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	5312.6	0.0	5312.6
	% Fixture	89.4	0.0	89.4
Total	Lumens	5940.0	0.0	5940.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	1.3
10°-20°	211.1	3.6
20°-30°	334.5	5.6
30°-40°	536.9	9.0
40°-50°	857.5	14.4
50°-60°	1241.5	20.9
60°-70°	1473.4	24.8
70°-80°	1093.8	18.4
80°-90°	111.8	1.9
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°	5940.0	100.0
0°-180°	5940.0	100.0

Coefficient of Utilization



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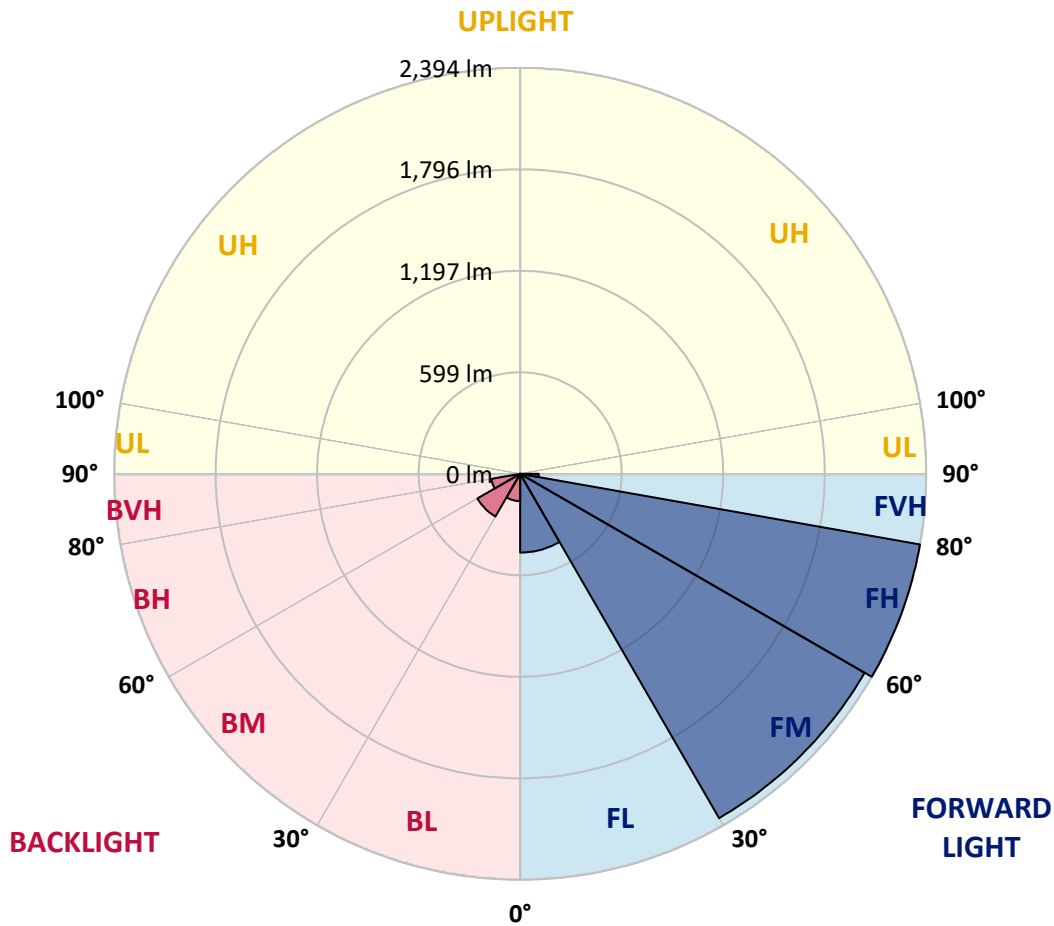
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	464.4	7.8			
FM (30°-60°)	2345.0	39.5			
FH (60°-80°)	2394.2	40.3			G2/5000
FVH (80°-90°)	109.1	1.8			G2/225
BL (0°-30°)	160.7	2.7	B1/500		
BM (30°-60°)	290.9	4.9	B1/1000		
BH (60°-80°)	173.0	2.9	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
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°	59°	65°	75°
0°	878.4	878.4	878.4	878.4	878.4	878.4	878.4	878.4	878.4	878.4
2.5°	974.6	969.1	969.9	960.6	954.0	947.0	933.5	931.5	921.8	904.8
5°	1059.5	1056.0	1052.9	1042.4	1028.9	1011.8	988.9	980.8	962.9	933.5
7.5°	1121.5	1117.3	1118.8	1108.4	1097.5	1078.5	1047.1	1032.0	1008.3	963.3
10°	1133.6	1131.2	1141.3	1145.2	1145.2	1133.2	1102.5	1087.4	1052.9	995.5
12.5°	1066.1	1066.5	1091.7	1121.9	1161.5	1172.7	1152.2	1135.9	1101.8	1029.6
15°	987.4	987.7	1012.2	1051.0	1115.7	1180.5	1196.8	1186.3	1151.0	1066.5
17.5°	940.0	938.1	954.4	986.2	1054.1	1145.2	1223.9	1230.9	1202.2	1107.2
20°	933.5	930.0	938.5	954.4	1002.9	1101.0	1227.0	1260.0	1254.9	1153.3
22.5°	973.8	968.4	963.7	964.5	985.0	1064.1	1219.3	1276.3	1309.2	1208.8
25°	1053.7	1045.1	1030.0	1010.6	1006.4	1056.4	1213.8	1294.1	1359.7	1279.8
27.5°	1151.4	1139.4	1110.3	1081.2	1056.4	1078.1	1225.1	1322.4	1416.7	1362.4
30°	1258.8	1244.1	1215.0	1159.9	1120.4	1126.6	1251.8	1359.7	1489.6	1455.8
32.5°	1416.7	1382.5	1331.7	1247.6	1195.2	1178.9	1292.2	1407.0	1579.9	1580.3
35°	1552.0	1533.0	1481.8	1377.1	1269.7	1248.4	1345.3	1473.7	1705.2	1745.1
37.5°	1640.8	1614.8	1569.8	1491.1	1385.2	1319.7	1416.3	1555.5	1837.8	1932.8
40°	1740.1	1714.5	1654.8	1580.7	1519.4	1442.3	1505.9	1649.7	1983.2	2125.6
42.5°	1859.9	1826.6	1756.0	1676.1	1612.1	1603.6	1623.0	1767.2	2132.6	2335.0
45°	2000.7	1969.3	1888.2	1787.4	1731.2	1716.0	1770.3	1904.1	2298.9	2564.6
47.5°	2132.6	2096.1	2008.8	1916.9	1854.5	1806.8	1927.0	2065.9	2487.4	2804.6
50°	2244.6	2207.4	2127.5	2029.4	1987.1	1924.7	2081.0	2246.2	2674.3	3048.6
52.5°	2321.4	2288.5	2194.6	2127.9	2099.2	2067.8	2261.3	2437.4	2860.5	3271.9
55°	2304.0	2274.5	2191.9	2187.2	2185.3	2218.3	2476.9	2654.2	3050.1	3483.3
57.5°	2248.5	2215.2	2112.0	2183.0	2251.6	2352.4	2710.4	2910.5	3258.0	3682.6
60°	2085.2	2073.6	2010.8	2174.8	2279.5	2483.9	2977.2	3168.0	3482.9	3857.9
62.5°	1739.7	1749.8	1749.4	2191.9	2329.9	2633.6	3219.6	3428.6	3702.8	4026.6
65°	1302.6	1337.5	1382.1	2038.3	2397.4	2900.8	3509.3	3711.3	3926.2	4222.8
67.5°	875.3	903.2	933.5	1672.2	2196.5	3181.6	3990.5	4098.7	4193.8	4440.4
70°	501.0	510.0	552.2	1044.4	1693.2	3104.0	4774.3	4813.5	4592.8	4708.4
72.5°	280.8	277.7	333.5	495.6	946.3	2658.0	5048.9	5430.9	4950.0	4704.1
75°	187.7	188.1	229.6	312.6	368.8	1860.7	4350.8	5035.7	4735.9	4171.3
77.5°	128.0	132.2	168.7	241.6	170.6	907.9	2878.3	3527.5	3834.3	3221.1
80°	55.5	55.8	111.3	173.4	115.2	288.9	1492.3	1889.8	2404.8	1808.7
82.5°	28.7	32.6	71.0	112.1	72.5	101.2	705.0	825.6	1009.1	530.9
85°	10.1	12.0	43.8	55.1	36.5	36.1	245.5	250.1	213.7	79.9
87.5°	0.0	1.9	17.1	13.6	4.7	4.3	29.1	24.4	19.4	11.2
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°
878.4	0°	878.4	878.4	878.4	878.4	878.4	878.4	878.4	878.4	878.4	878.4
887.3	2.5°	879.2	868.7	851.6	830.7	806.3	793.1	774.1	762.4	752.0	752.3
899.3	5°	880.3	862.9	819.4	773.3	722.1	684.5	642.6	613.1	590.6	585.2
911.7	7.5°	883.8	854.3	783.4	706.6	621.3	558.1	500.3	463.8	443.3	437.8
924.5	10°	888.5	845.0	742.7	625.1	519.3	443.3	395.2	371.9	362.6	355.6
940.8	12.5°	892.3	835.3	691.5	541.0	428.5	369.2	332.7	313.3	305.2	300.2
959.8	15°	898.9	822.5	636.0	462.7	367.3	318.8	284.3	269.9	267.6	268.4
980.8	17.5°	905.5	810.1	574.0	401.4	322.3	274.6	253.6	251.3	254.4	257.5
1004.8	20°	912.9	792.3	511.1	355.2	280.8	243.9	238.5	240.1	241.6	247.0
1037.8	22.5°	923.8	769.8	456.1	316.1	246.3	229.2	226.5	227.6	228.8	234.2
1081.2	25°	939.3	745.8	411.5	280.0	224.5	217.2	214.5	214.5	216.0	221.1
1131.6	27.5°	955.6	711.6	375.4	246.6	211.7	204.0	199.3	199.3	201.3	207.1
1194.8	30°	973.8	680.6	347.1	221.8	200.9	190.8	184.6	183.0	185.4	192.7
1286.4	32.5°	1006.7	660.4	326.9	210.2	191.2	178.8	170.2	166.0	168.3	176.8
1414.3	35°	1056.8	655.8	313.0	204.4	181.9	167.9	155.9	149.3	151.2	160.2
1572.2	37.5°	1115.3	665.5	299.4	196.6	173.0	157.4	141.5	133.0	136.1	144.3
1752.5	40°	1199.5	705.8	288.9	190.8	164.0	145.0	127.2	118.7	123.7	130.7
1940.2	42.5°	1301.1	777.6	286.2	185.4	153.2	131.9	114.0	107.8	111.7	118.3
2129.8	45°	1427.1	869.1	298.6	178.4	141.2	119.1	103.5	100.1	101.2	107.8
2309.0	47.5°	1562.5	962.9	332.7	172.2	130.7	108.6	95.4	92.3	91.5	97.7
2472.7	50°	1699.4	1046.3	373.1	167.5	123.3	100.1	89.2	85.3	83.4	87.3
2634.4	52.5°	1834.7	1112.6	399.4	159.8	116.0	91.5	83.8	77.9	74.5	76.4
2795.3	55°	1972.0	1170.8	401.0	148.1	109.0	86.1	78.3	71.7	67.5	67.5
2950.4	57.5°	2100.4	1222.0	378.1	132.6	99.3	81.1	71.0	65.5	60.9	59.3
3088.1	60°	2214.0	1260.0	340.1	115.2	90.7	74.5	63.6	59.3	53.5	50.4
3210.7	62.5°	2315.2	1278.6	288.1	97.3	80.3	66.7	56.6	52.0	44.2	40.3
3335.1	65°	2400.9	1259.6	233.8	80.7	71.4	58.2	48.5	43.8	35.3	30.6
3475.1	67.5°	2485.8	1172.7	176.8	67.9	62.0	48.9	39.9	35.7	29.5	25.6
3577.1	70°	2496.7	990.1	123.7	57.0	51.6	37.6	32.2	29.5	24.0	20.6
3349.5	72.5°	2222.5	712.4	75.2	46.5	40.3	26.8	25.6	23.3	17.8	15.5
2736.8	75°	1776.5	436.7	44.2	34.9	26.8	19.0	19.0	16.7	12.0	10.1
1889.4	77.5°	1227.8	228.4	26.0	22.5	15.9	11.2	12.4	10.1	5.8	4.7
748.5	80°	491.7	86.9	14.0	10.5	7.4	5.0	4.3	2.3	1.2	0.8
153.6	82.5°	98.1	22.9	4.7	2.7	2.7	1.2	0.0	0.0	0.0	0.0
42.3	85°	25.2	5.0	1.2	0.8	0.8	0.0	0.0	0.0	0.0	0.0
14.0	87.5°	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
878.4
760.9
593.3
443.3
359.9
302.9
269.5
258.7
248.6
235.8
223.0
209.4
194.7
179.2
162.9
146.6
131.9
119.4
110.9
101.6
88.8
77.9
68.3
59.7
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