

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: P939314

Luminaire Tested: **GALN-SB1D-835-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6895 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

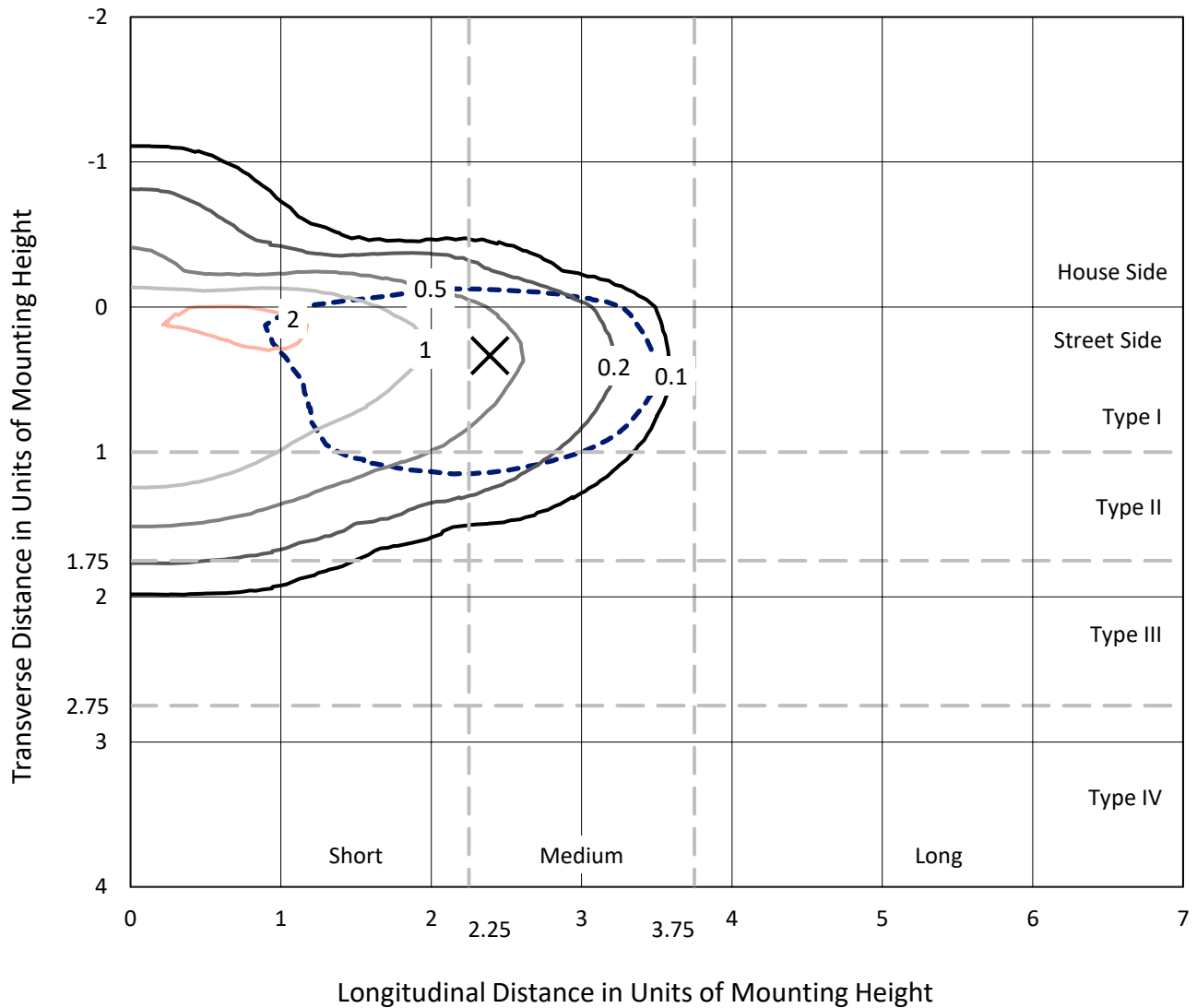
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

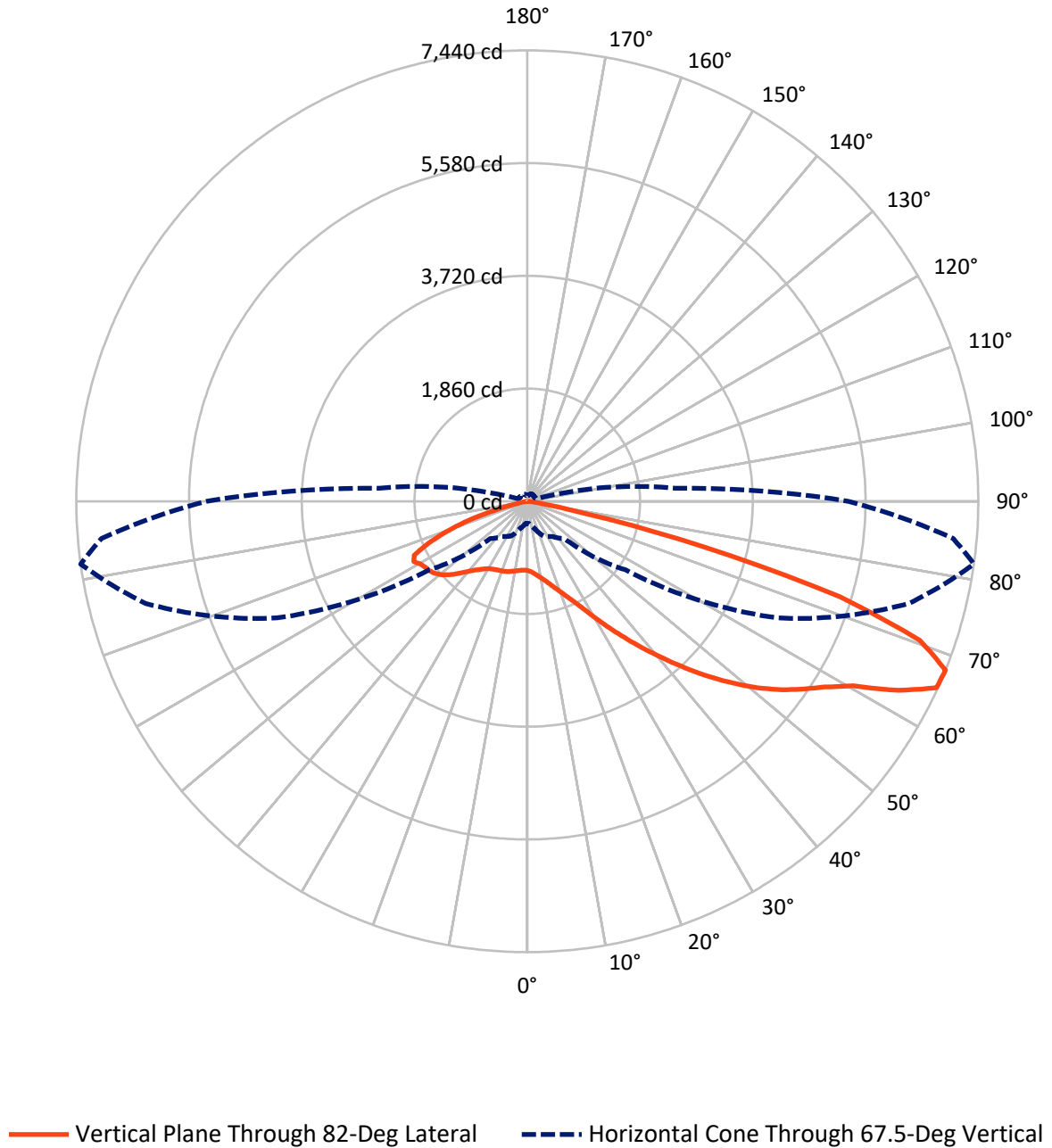
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1249.0	0.0	1249.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5646.0	0.0	5646.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	6895.0	0.0	6895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.8	1.5
10°-20°	264.5	3.8
20°-30°	423.6	6.1
30°-40°	749.0	10.9
40°-50°	1312.3	19.0
50°-60°	1750.3	25.4
60°-70°	1629.4	23.6
70°-80°	625.4	9.1
80°-90°	38.8	0.6
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°	6895.0	100.0
0°-180°	6895.0	100.0

Coefficient of Utilization



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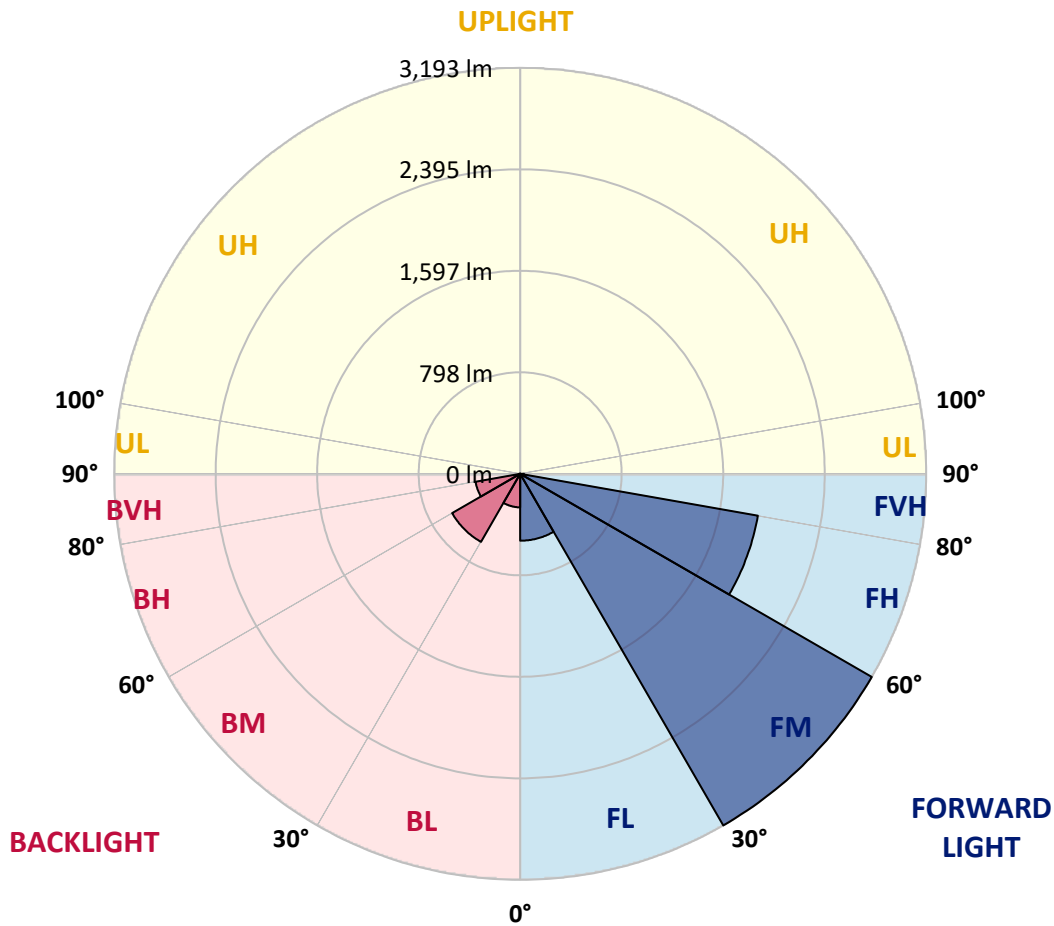
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	526.0	7.6			
FM (30°-60°)	3193.5	46.3			
FH (60°-80°)	1898.3	27.5			G2/5000
FVH (80°-90°)	28.2	0.4			G1/100
BL (0°-30°)	263.8	3.8	B1/500		
BM (30°-60°)	618.1	9.0	B1/1000		
BH (60°-80°)	356.5	5.2	B1/500		G1/500
BVH (80°-90°)	10.6	0.2			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1142.3	1142.3	1142.3	1142.3	1142.3	1142.3	1142.3	1142.3	1142.3	1142.3
2.5°	1207.3	1214.2	1210.3	1208.3	1204.8	1199.9	1195.9	1183.5	1170.6	1162.1
5°	1231.6	1238.6	1238.1	1240.1	1242.5	1244.0	1243.0	1229.1	1210.8	1196.4
7.5°	1210.8	1218.7	1225.2	1235.1	1252.5	1270.8	1279.8	1276.8	1257.9	1238.1
10°	1151.7	1160.1	1175.5	1198.9	1235.6	1275.3	1308.6	1324.0	1312.0	1290.2
12.5°	1043.5	1051.9	1082.2	1132.8	1194.4	1263.4	1326.9	1368.1	1371.1	1349.3
15°	921.9	930.3	962.6	1026.1	1119.9	1230.6	1336.9	1414.8	1441.1	1422.3
17.5°	846.4	853.8	878.2	929.3	1027.1	1165.1	1333.4	1464.4	1524.5	1509.6
20°	823.6	830.0	841.4	877.2	958.6	1097.1	1310.6	1511.1	1614.4	1605.9
22.5°	847.9	853.8	857.3	873.2	924.3	1052.4	1281.8	1558.8	1718.6	1719.6
25°	904.0	909.9	906.0	915.9	938.2	1038.5	1270.8	1614.9	1849.7	1860.6
27.5°	996.3	996.8	987.4	986.9	990.4	1059.4	1282.3	1674.9	2015.0	2035.3
30°	1181.5	1174.0	1137.8	1098.6	1080.7	1121.9	1314.0	1745.9	2210.1	2246.3
32.5°	1466.9	1456.0	1389.5	1295.7	1201.3	1222.7	1371.1	1826.8	2422.5	2488.1
35°	1776.7	1773.7	1704.2	1564.7	1399.9	1366.2	1463.9	1933.1	2654.4	2758.6
37.5°	2064.6	2063.1	2023.4	1859.1	1658.5	1566.2	1612.9	2072.1	2902.6	3053.5
40°	2327.7	2332.2	2292.5	2145.5	1943.5	1822.9	1815.4	2243.8	3178.6	3374.7
42.5°	2555.1	2560.1	2519.8	2411.1	2225.0	2106.8	2064.1	2454.3	3448.2	3719.7
45°	2709.5	2740.3	2734.3	2647.4	2513.9	2391.3	2363.0	2718.4	3755.4	4085.6
47.5°	2753.2	2781.5	2826.1	2838.0	2756.6	2636.0	2669.8	3036.6	4066.2	4451.9
50°	2645.4	2671.7	2764.6	2888.2	2944.8	2907.5	2968.1	3377.7	4384.4	4817.3
52.5°	2433.0	2459.8	2576.9	2772.5	3003.4	3120.5	3267.5	3713.7	4692.7	5163.3
55°	2125.7	2154.0	2304.4	2525.8	2891.7	3208.4	3517.2	4049.3	4975.1	5474.5
57.5°	1707.7	1728.5	1884.9	2194.7	2610.7	3121.0	3701.3	4415.7	5241.2	5780.3
60°	1113.0	1131.3	1313.0	1658.5	2145.0	2829.1	3738.1	4824.2	5594.7	6178.0
62.5°	740.2	752.6	860.3	1114.0	1510.6	2268.7	3523.1	5150.4	6112.9	6870.0
65°	507.8	520.3	628.0	804.7	976.0	1500.7	2905.1	5107.2	6582.6	7419.5
67.5°	362.4	372.8	464.2	631.0	706.4	871.7	1969.3	4555.2	6515.0	7440.4
70°	259.6	265.6	341.0	491.5	561.5	523.7	1095.1	3483.9	5704.4	6870.5
72.5°	181.7	183.7	236.8	374.3	452.2	382.2	521.2	2322.8	4314.4	5392.6
75°	123.1	125.6	159.4	274.5	362.9	291.9	276.0	1245.5	2532.7	2985.0
77.5°	75.5	76.4	102.8	187.6	271.5	222.4	177.7	527.7	979.9	962.1
80°	42.7	42.7	65.5	116.7	185.2	143.5	124.6	224.4	310.3	272.5
82.5°	23.8	24.3	47.7	72.5	122.6	84.9	68.5	103.8	134.0	118.6
85°	9.9	10.9	29.3	34.3	58.6	42.2	27.8	43.7	49.6	44.2
87.5°	1.0	1.5	8.9	6.5	6.9	8.4	4.0	8.4	6.9	6.9
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°
1142.3	0°	1142.3	1142.3	1142.3	1142.3	1142.3	1142.3	1142.3	1142.3	1142.3	1142.3
1159.1	2.5°	1149.7	1142.3	1123.4	1101.6	1072.8	1058.9	1040.0	1027.1	1016.2	1017.2
1187.9	5°	1172.1	1153.2	1111.0	1058.4	992.8	946.2	896.5	862.3	834.5	828.5
1227.7	7.5°	1202.8	1173.0	1099.1	1004.3	893.6	809.7	734.7	686.6	652.3	641.4
1275.8	10°	1242.5	1199.4	1083.7	936.3	776.9	670.2	589.7	552.0	528.7	520.7
1332.4	12.5°	1288.7	1229.6	1063.3	853.4	656.8	554.0	502.9	484.0	476.6	474.1
1401.9	15°	1346.8	1267.4	1032.6	755.1	555.0	483.0	461.2	458.7	459.7	458.7
1485.3	17.5°	1415.8	1308.6	982.4	653.8	486.5	446.8	438.8	440.8	443.3	442.8
1578.6	20°	1491.3	1349.3	918.4	563.9	439.8	421.0	416.5	418.5	420.5	419.5
1686.3	22.5°	1577.1	1393.0	847.4	493.9	408.6	397.1	392.2	392.7	392.7	390.7
1822.9	25°	1679.9	1441.1	772.9	444.3	384.7	375.8	369.8	367.8	364.9	358.9
1988.7	27.5°	1802.5	1492.2	701.4	409.5	365.9	357.4	350.5	345.5	338.1	328.1
2187.7	30°	1940.5	1554.3	640.9	387.7	351.0	342.5	334.6	327.1	316.2	303.8
2416.6	32.5°	2102.8	1620.8	596.7	373.3	337.6	328.6	319.2	310.3	298.3	285.9
2673.7	35°	2296.5	1701.2	570.9	363.4	327.1	315.2	304.8	294.9	285.9	275.0
2953.2	37.5°	2506.4	1786.6	562.9	358.4	320.2	301.8	289.9	283.0	282.0	275.5
3255.5	40°	2736.3	1887.9	568.9	355.4	312.7	288.9	276.0	274.5	277.0	265.6
3578.7	42.5°	2979.5	2008.0	578.8	352.0	302.3	276.0	263.6	263.6	261.6	245.7
3920.2	45°	3242.6	2146.5	588.8	343.5	289.9	263.1	253.7	250.2	241.8	226.4
4263.8	47.5°	3507.7	2287.5	596.2	328.1	275.0	252.2	243.7	235.8	223.4	209.5
4600.8	50°	3759.4	2414.1	588.3	305.3	258.1	241.8	232.8	221.9	208.5	199.1
4920.0	52.5°	3984.3	2523.8	554.5	278.5	240.3	230.8	222.9	211.5	200.6	190.6
5208.0	55°	4179.9	2612.7	494.9	253.2	224.4	221.4	213.5	199.1	184.2	175.7
5493.4	57.5°	4367.5	2680.2	420.5	232.3	210.0	211.0	199.1	186.2	172.3	163.3
5878.1	60°	4617.2	2770.5	345.0	213.0	194.6	197.6	184.7	175.2	157.9	146.4
6537.9	62.5°	5016.3	2911.0	274.0	189.1	176.7	177.7	172.3	160.8	140.0	126.6
7026.9	65°	5333.1	2859.4	215.9	163.3	156.4	157.9	157.9	145.5	123.1	107.7
7053.2	67.5°	5297.3	2448.4	172.3	138.0	137.0	138.0	141.5	131.1	109.2	96.8
6516.0	70°	4879.8	1947.5	138.0	114.7	119.1	116.7	126.6	119.6	98.3	85.9
5051.6	72.5°	3981.8	1402.9	105.2	94.8	91.3	95.3	114.2	107.7	81.9	68.0
2675.7	75°	2326.7	748.6	78.4	75.0	66.0	79.4	101.3	91.8	62.5	50.1
820.1	77.5°	757.5	261.1	57.6	55.1	49.1	64.0	86.4	77.4	51.1	39.7
240.3	80°	203.0	78.9	39.2	36.2	31.8	47.7	68.5	61.6	36.7	25.8
103.3	82.5°	81.4	33.3	22.8	20.4	17.4	32.8	54.1	49.6	27.3	16.4
32.3	85°	26.3	10.9	8.4	6.5	7.9	20.4	32.3	33.8	19.4	8.4
5.0	87.5°	3.5	1.5	1.5	2.0	1.5	3.5	9.9	9.4	5.5	1.0
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>
1142.3
1007.2
815.1
630.5
514.8
472.6
458.2
441.8
419.0
389.7
357.9
327.1
302.8
286.4
274.0
275.0
266.1
245.7
225.9
209.0
197.6
189.6
174.7
162.3
145.0
125.6
106.2
94.8
84.4
66.5
48.6
38.2
25.3
16.4
6.5
0.0
0.0

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