

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: P940156

Luminaire Tested: **GALN-SB3A-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9485 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

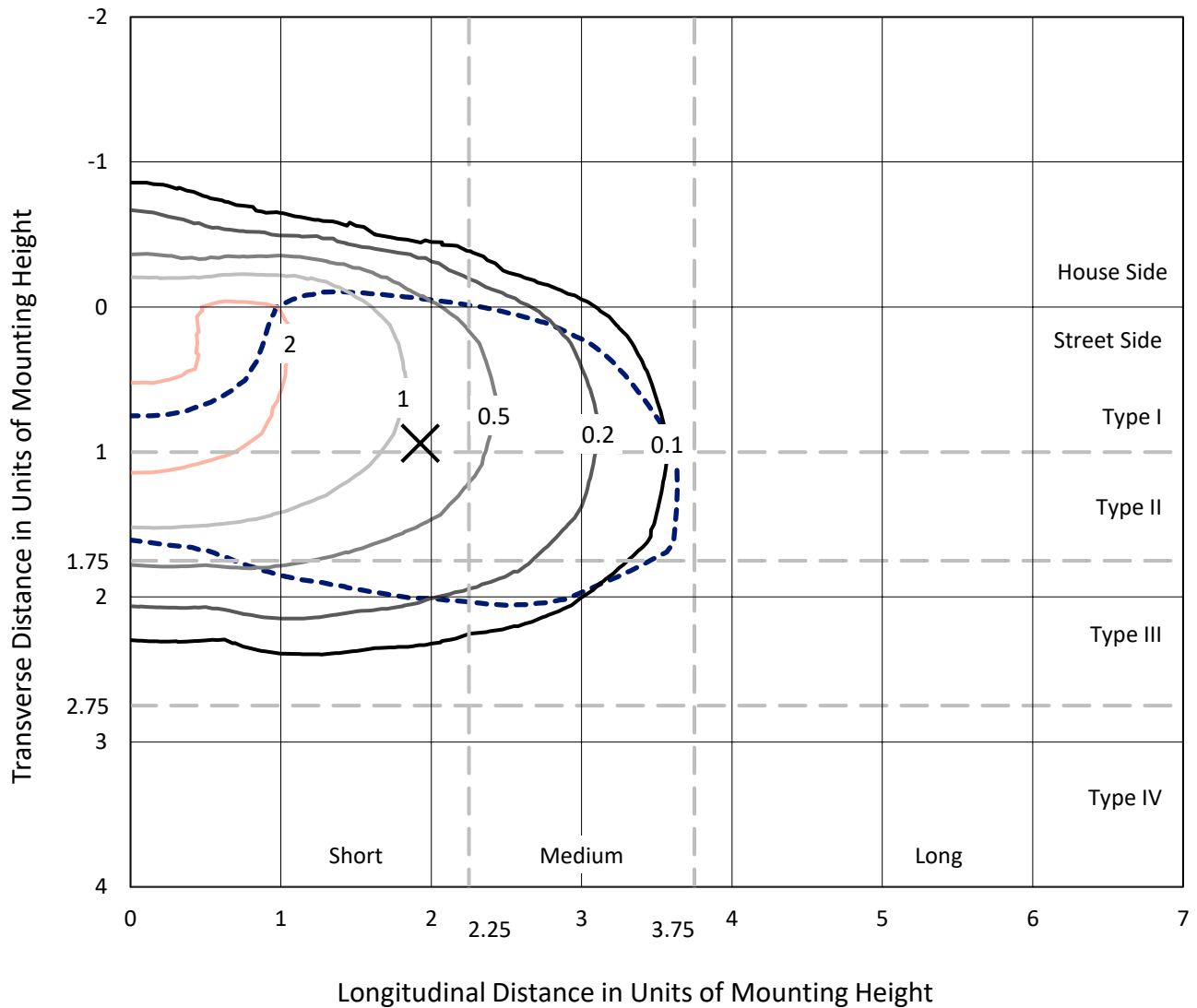
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

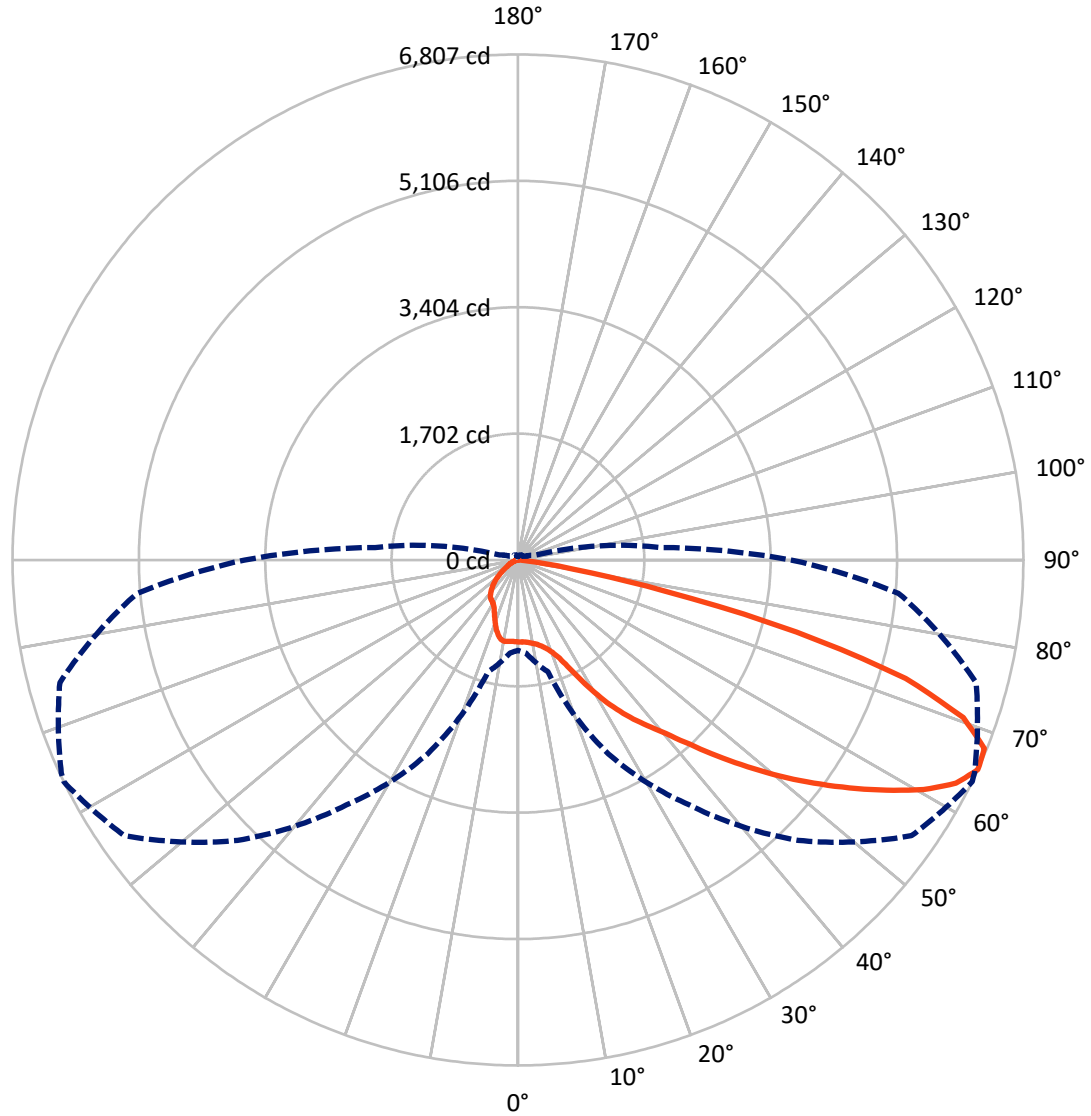
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1268.4	0.0	1268.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	8216.6	0.0	8216.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	9485.0	0.0	9485.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.8	1.1
10°-20°	276.1	2.9
20°-30°	523.1	5.5
30°-40°	1058.5	11.2
40°-50°	1803.2	19.0
50°-60°	2452.2	25.9
60°-70°	2302.8	24.3
70°-80°	922.6	9.7
80°-90°	44.7	0.5
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°	9485.0	100.0
0°-180°	9485.0	100.0

Coefficient of Utilization



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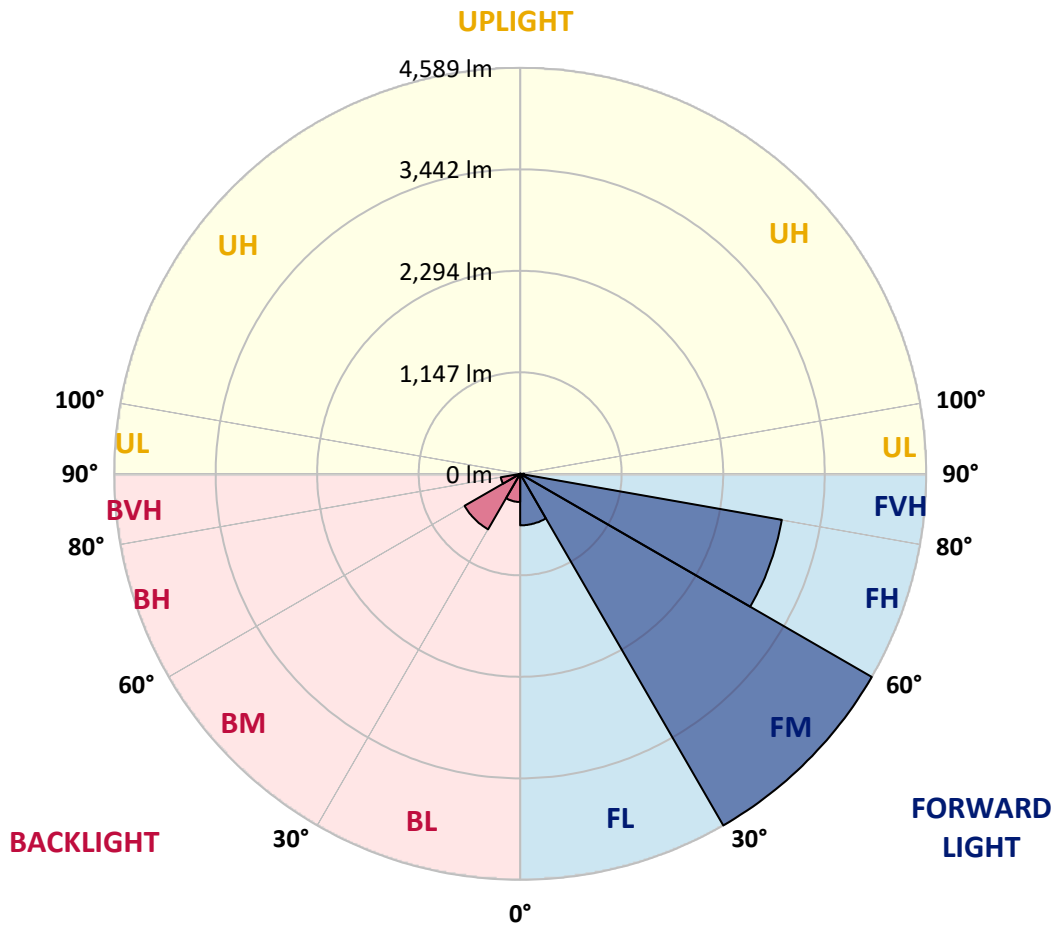
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	582.5	6.1			
FM (30°-60°)	4588.8	48.4			
FH (60°-80°)	3002.7	31.7			G2/5000
FVH (80°-90°)	42.5	0.4			G1/100
BL (0°-30°)	318.5	3.4	B1/500		
BM (30°-60°)	725.2	7.6	B1/1000		
BH (60°-80°)	222.6	2.3	B1/500		G1/500
BVH (80°-90°)	2.2	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1103.2	1103.2	1103.2	1103.2	1103.2	1103.2	1103.2	1103.2	1103.2	1103.2
2.5°	1099.4	1107.0	1105.1	1103.2	1102.6	1103.8	1104.5	1103.8	1103.8	1103.8
5°	1078.4	1084.8	1084.8	1089.2	1095.6	1103.2	1108.9	1110.2	1111.5	1113.4
7.5°	1038.3	1043.4	1047.2	1061.9	1077.8	1098.1	1115.3	1124.2	1125.5	1132.5
10°	1011.0	1017.4	1023.7	1039.0	1061.9	1092.4	1121.6	1143.3	1146.4	1163.0
12.5°	1009.7	1016.1	1024.4	1040.9	1067.6	1100.0	1135.6	1166.8	1172.5	1196.7
15°	1023.1	1030.7	1038.3	1058.7	1087.3	1126.7	1164.9	1203.7	1209.4	1243.7
17.5°	1050.4	1060.6	1066.3	1086.7	1117.2	1161.1	1211.3	1255.8	1260.9	1301.0
20°	1104.5	1116.6	1118.5	1135.0	1164.9	1211.9	1271.7	1327.0	1333.4	1379.2
22.5°	1216.4	1233.6	1218.3	1226.6	1253.3	1300.3	1365.2	1435.1	1444.0	1496.2
25°	1413.5	1437.7	1398.2	1384.3	1395.7	1444.7	1526.0	1614.4	1624.6	1666.6
27.5°	1800.7	1769.6	1709.8	1651.3	1617.0	1645.0	1736.5	1845.9	1858.6	1899.3
30°	2226.1	2198.8	2118.0	1988.3	1906.9	1902.5	1987.0	2109.1	2123.7	2162.5
32.5°	2652.1	2626.1	2538.3	2378.7	2237.6	2167.6	2226.1	2361.6	2369.2	2394.0
35°	3071.2	3044.5	2956.7	2793.3	2619.7	2460.7	2449.3	2601.9	2604.5	2630.5
37.5°	3492.7	3470.5	3377.0	3216.8	3045.7	2826.4	2720.2	2829.5	2832.7	2858.2
40°	3793.5	3803.0	3738.8	3614.8	3467.9	3228.2	3024.1	3071.8	3052.7	3095.3
42.5°	4051.7	4070.7	4014.8	3952.5	3867.3	3656.2	3400.5	3392.3	3361.8	3384.6
45°	4274.8	4290.7	4240.5	4225.9	4224.0	4075.8	3811.9	3762.3	3719.7	3715.3
47.5°	4356.9	4387.4	4409.0	4458.0	4553.3	4491.0	4237.3	4160.4	4112.7	4077.7
50°	4388.0	4420.4	4494.2	4636.6	4862.4	4889.1	4660.8	4574.3	4515.8	4452.2
52.5°	4346.1	4403.9	4503.1	4742.8	5070.3	5208.3	5067.1	4991.4	4924.7	4821.0
55°	4098.7	4156.6	4359.4	4741.6	5173.9	5432.1	5451.2	5417.5	5342.4	5179.0
57.5°	3577.3	3663.1	3984.3	4580.0	5172.0	5624.8	5827.6	5851.8	5767.8	5533.8
60°	2855.0	2971.3	3363.0	4222.1	5012.4	5729.0	6157.6	6278.4	6189.4	5883.5
62.5°	1992.1	2126.9	2497.6	3661.2	4647.4	5654.0	6398.6	6621.8	6554.4	6196.4
65°	1215.1	1258.4	1557.2	2881.0	4026.9	5339.9	6473.0	6807.4	6785.2	6387.8
67.5°	809.4	845.7	931.5	1975.6	3125.9	4712.3	6294.9	6775.0	6781.4	6356.6
70°	487.7	518.9	574.8	1149.0	2025.8	3729.9	5743.7	6361.7	6398.6	5940.1
72.5°	200.9	221.9	272.8	520.8	1049.2	2367.3	4573.7	5462.0	5547.8	4994.6
75°	113.8	124.6	160.2	261.3	455.3	1103.2	2770.4	3877.4	4004.0	3442.5
77.5°	75.7	80.8	103.6	169.1	256.2	376.4	1184.0	2020.1	2261.7	1880.2
80°	50.9	55.3	71.2	113.2	166.6	161.5	377.1	748.4	920.7	646.0
82.5°	34.3	35.0	50.9	74.4	105.6	78.2	111.3	232.7	292.5	186.9
85°	19.7	19.1	37.5	43.2	47.1	32.4	33.7	69.9	91.6	78.8
87.5°	2.5	3.8	14.6	11.4	6.4	7.0	7.0	12.1	17.8	19.1
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°
1103.2	0°	1103.2	1103.2	1103.2	1103.2	1103.2	1103.2	1103.2	1103.2	1103.2	1103.2
1104.5	2.5°	1104.5	1103.8	1101.9	1100.0	1095.6	1093.0	1094.3	1093.0	1092.4	1093.0
1112.7	5°	1112.7	1110.8	1105.7	1099.4	1090.5	1079.7	1072.7	1062.5	1053.0	1047.2
1135.0	7.5°	1135.0	1133.1	1126.1	1108.3	1079.7	1034.5	993.2	957.0	929.6	913.7
1170.6	10°	1170.6	1167.4	1156.6	1117.2	1042.2	943.6	861.6	793.5	749.0	728.1
1212.6	12.5°	1212.6	1208.8	1189.7	1108.9	970.9	817.1	703.9	628.2	586.9	568.5
1260.9	15°	1262.2	1257.1	1219.6	1069.5	867.3	677.2	573.5	516.9	490.2	473.7
1322.6	17.5°	1323.8	1314.9	1241.8	1010.4	754.8	570.4	493.4	450.8	427.3	411.4
1403.3	20°	1404.0	1389.3	1259.6	939.8	651.1	503.0	439.4	403.8	386.0	372.0
1517.8	22.5°	1515.9	1494.9	1281.2	863.5	578.0	456.5	399.3	373.2	358.6	342.7
1677.4	25°	1654.5	1629.7	1307.9	792.9	527.8	416.5	370.1	348.4	331.3	312.8
1886.6	27.5°	1848.4	1803.9	1339.7	735.0	484.5	382.1	343.4	319.2	299.5	284.2
2123.7	30°	2064.6	1991.5	1367.7	700.1	445.1	350.4	308.4	284.2	265.8	255.0
2336.8	32.5°	2269.4	2170.2	1386.2	684.8	409.5	314.1	270.2	244.2	230.2	227.0
2545.3	35°	2462.7	2331.7	1384.3	670.2	377.7	277.9	232.7	206.0	195.2	197.1
2769.8	37.5°	2685.2	2504.0	1370.9	647.3	351.6	244.8	200.3	176.8	167.2	167.9
3042.6	40°	2944.0	2703.0	1362.6	604.1	323.0	214.3	173.6	154.5	147.5	145.0
3330.0	42.5°	3220.0	2895.7	1363.9	555.1	287.4	186.9	155.1	139.3	132.9	131.0
3649.8	45°	3497.2	3079.4	1365.8	504.2	249.9	166.0	141.8	128.4	124.6	122.1
3974.1	47.5°	3757.9	3235.9	1330.2	449.5	213.0	150.1	131.0	122.1	118.9	115.7
4299.6	50°	4000.8	3340.1	1244.4	386.0	183.8	137.3	122.7	116.4	113.2	110.0
4594.7	52.5°	4189.6	3356.7	1102.6	320.5	163.4	127.8	117.6	111.9	108.1	104.9
4833.1	55°	4273.6	3253.0	901.0	259.4	147.5	119.5	112.5	106.8	102.4	99.2
5020.7	57.5°	4251.9	3034.9	702.6	208.6	132.3	111.3	106.2	102.4	97.3	92.2
5172.7	60°	4145.8	2743.1	529.7	173.6	118.3	102.4	99.2	96.0	89.0	81.4
5231.2	62.5°	3962.0	2376.2	377.7	143.7	103.0	92.2	90.9	88.4	78.2	64.2
5144.7	65°	3680.9	1930.4	254.3	119.5	88.4	80.8	81.4	76.9	63.6	47.7
4828.0	67.5°	3270.2	1411.6	162.8	97.9	73.8	67.4	68.0	65.5	54.0	40.7
4227.8	70°	2746.9	934.7	106.2	74.4	59.1	52.1	56.0	56.6	45.8	33.1
3244.8	72.5°	2013.7	551.9	74.4	55.3	43.2	36.2	45.8	47.1	36.9	24.8
1952.1	75°	1147.7	262.0	56.0	40.1	26.7	25.4	35.6	35.6	25.4	16.5
845.0	77.5°	482.0	109.4	39.4	26.1	15.3	14.6	24.2	22.3	12.7	7.6
206.0	80°	139.3	49.0	21.0	12.7	6.4	5.7	9.5	7.0	3.2	1.3
78.2	82.5°	54.7	21.6	8.3	5.1	2.5	2.5	1.3	0.0	0.0	0.0
44.5	85°	32.4	8.9	3.8	1.9	0.6	0.0	0.0	0.0	0.0	0.0
9.5	87.5°	8.3	1.9	1.3	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

180°
1103.2
1095.6
1048.5
914.4
726.1
566.5
474.3
410.1
369.4
340.2
310.9
281.0
253.1
228.9
197.1
170.4
144.3
130.3
122.1
115.7
110.0
104.3
98.6
91.6
80.1
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