

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: P939484

Luminaire Tested: **GALN-SB2A-835-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939484  
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-SB2A-835-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

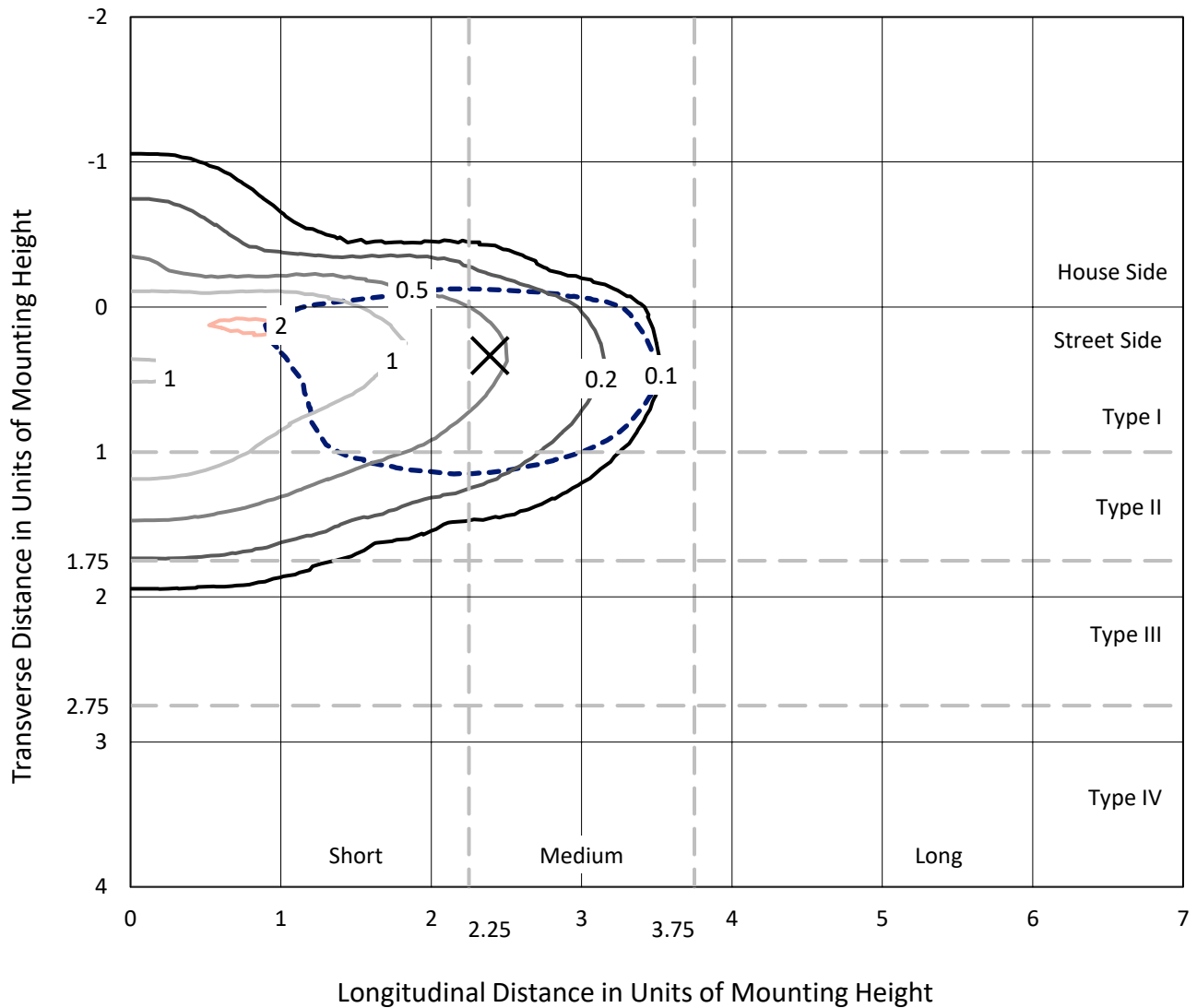
Lumens per Lamp: N/A  
Luminaire Lumens: 6076 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

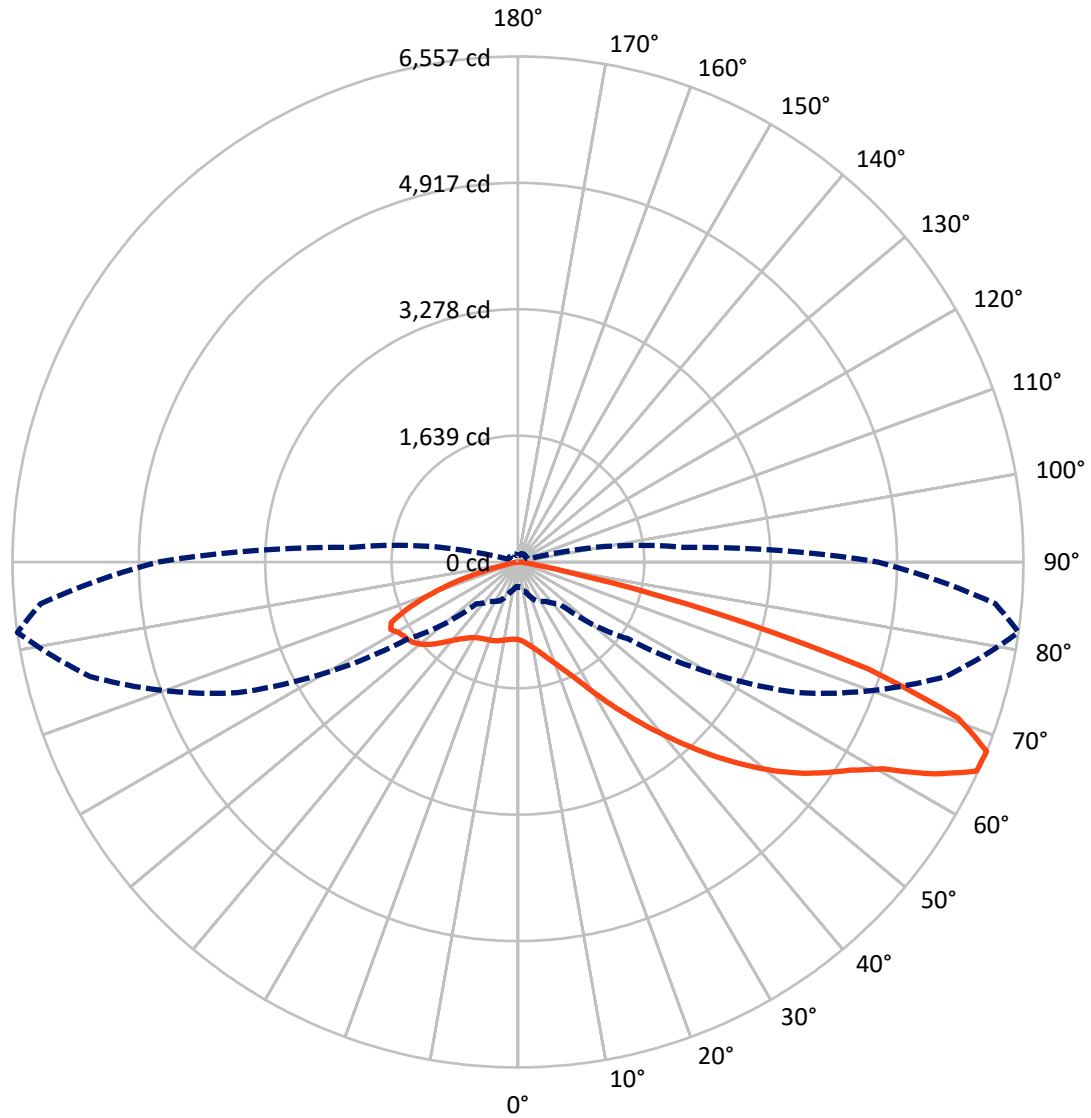
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1100.6	0.0	1100.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	4975.4	0.0	4975.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	6076.0	0.0	6076.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.7	1.5
10°-20°	233.0	3.8
20°-30°	373.3	6.1
30°-40°	660.0	10.9
40°-50°	1156.4	19.0
50°-60°	1542.4	25.4
60°-70°	1435.9	23.6
70°-80°	551.1	9.1
80°-90°	34.2	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°	6076.0	100.0
0°-180°	6076.0	100.0

**Coefficient of Utilization**



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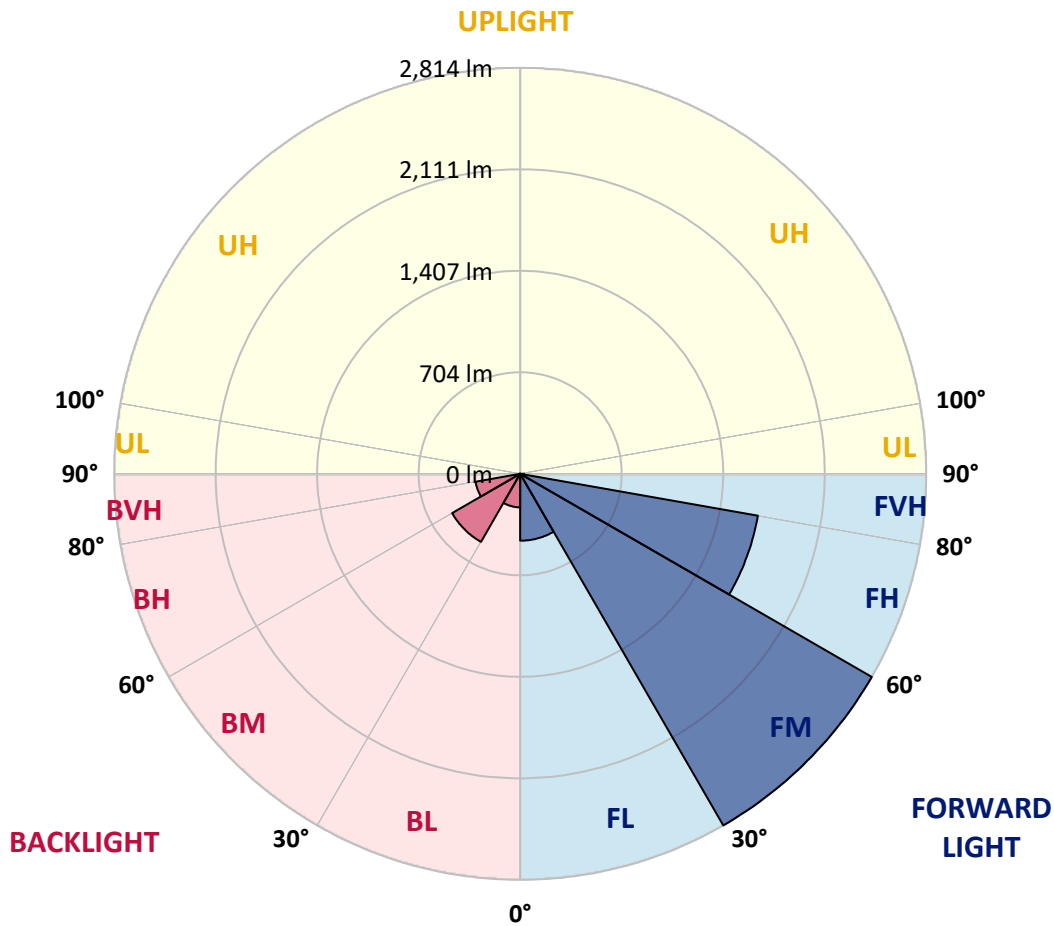
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	463.5	7.6			
FM (30°-60°)	2814.2	46.3			
FH (60°-80°)	1672.8	27.5			G1/1800
FVH (80°-90°)	24.9	0.4			G1/100
BL (0°-30°)	232.4	3.8	B1/500		
BM (30°-60°)	544.7	9.0	B1/1000		
BH (60°-80°)	314.1	5.2	B1/500		G1/500
BVH (80°-90°)	9.3	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6
2.5°	1063.9	1070.0	1066.5	1064.8	1061.7	1057.3	1053.8	1042.9	1031.5	1024.1
5°	1085.3	1091.5	1091.0	1092.8	1095.0	1096.3	1095.4	1083.1	1067.0	1054.3
7.5°	1067.0	1074.0	1079.6	1088.4	1103.7	1119.9	1127.8	1125.1	1108.5	1091.0
10°	1014.9	1022.3	1035.9	1056.5	1088.8	1123.8	1153.1	1166.7	1156.2	1136.9
12.5°	919.5	927.0	953.7	998.3	1052.5	1113.3	1169.3	1205.6	1208.3	1189.0
15°	812.4	819.8	848.2	904.2	986.9	1084.5	1178.1	1246.8	1269.9	1253.3
17.5°	745.9	752.4	773.9	818.9	905.1	1026.7	1175.0	1290.5	1343.4	1330.3
20°	725.7	731.4	741.5	773.0	844.7	966.8	1154.9	1331.6	1422.6	1415.2
22.5°	747.2	752.4	755.5	769.5	814.5	927.4	1129.5	1373.6	1514.5	1515.3
25°	796.6	801.9	798.4	807.1	826.8	915.2	1119.9	1423.0	1630.0	1639.6
27.5°	878.0	878.4	870.1	869.7	872.7	933.5	1130.0	1476.0	1775.6	1793.6
30°	1041.1	1034.6	1002.7	968.1	952.3	988.7	1157.9	1538.5	1947.6	1979.5
32.5°	1292.7	1283.1	1224.4	1141.8	1058.6	1077.5	1208.3	1609.8	2134.8	2192.5
35°	1565.7	1563.0	1501.8	1378.9	1233.6	1203.9	1290.1	1703.5	2339.1	2430.9
37.5°	1819.4	1818.1	1783.1	1638.3	1461.5	1380.2	1421.3	1825.9	2557.8	2690.8
40°	2051.2	2055.2	2020.2	1890.7	1712.6	1606.3	1599.8	1977.3	2801.0	2973.8
42.5°	2251.6	2256.0	2220.5	2124.7	1960.7	1856.6	1818.9	2162.8	3038.6	3277.9
45°	2387.6	2414.8	2409.5	2333.0	2215.3	2107.2	2082.3	2395.5	3309.4	3600.3
47.5°	2426.1	2451.1	2490.4	2500.9	2429.2	2322.9	2352.6	2675.9	3583.2	3923.1
50°	2331.2	2354.4	2436.2	2545.1	2595.0	2562.2	2615.6	2976.5	3863.6	4245.1
52.5°	2144.0	2167.6	2270.8	2443.2	2646.6	2749.9	2879.3	3272.6	4135.3	4550.0
55°	1873.2	1898.1	2030.7	2225.8	2548.2	2827.3	3099.4	3568.3	4384.2	4824.3
57.5°	1504.9	1523.2	1661.0	1934.0	2300.6	2750.3	3261.7	3891.2	4618.7	5093.7
60°	980.8	997.0	1157.1	1461.5	1890.2	2493.1	3294.0	4251.2	4930.1	5444.1
62.5°	652.2	663.2	758.1	981.7	1331.2	1999.2	3104.6	4538.6	5386.8	6054.0
65°	447.5	458.5	553.4	709.1	860.0	1322.4	2560.0	4500.6	5800.7	6538.2
67.5°	319.3	328.5	409.0	556.0	622.5	768.2	1735.4	4014.1	5741.2	6556.6
70°	228.8	234.0	300.5	433.1	494.8	461.5	965.0	3070.1	5026.8	6054.4
72.5°	160.1	161.9	208.7	329.8	398.5	336.8	459.3	2046.9	3801.9	4752.1
75°	108.5	110.7	140.4	241.9	319.8	257.2	243.2	1097.6	2231.9	2630.4
77.5°	66.5	67.4	90.6	165.4	239.3	196.0	156.6	465.0	863.5	847.8
80°	37.6	37.6	57.7	102.8	163.2	126.4	109.8	197.7	273.4	240.2
82.5°	21.0	21.4	42.0	63.9	108.1	74.8	60.4	91.4	118.1	104.6
85°	8.7	9.6	25.8	30.2	51.6	37.2	24.5	38.5	43.7	38.9
87.5°	0.9	1.3	7.9	5.7	6.1	7.4	3.5	7.4	6.1	6.1
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°
1006.6	0°	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6
1021.5	2.5°	1013.1	1006.6	990.0	970.7	945.3	933.1	916.5	905.1	895.5	896.3
1046.8	5°	1032.8	1016.2	979.0	932.7	874.9	833.8	790.0	759.9	735.4	730.1
1081.8	7.5°	1060.0	1033.7	968.5	885.0	787.4	713.5	647.4	605.0	574.8	565.2
1124.3	10°	1095.0	1056.9	955.0	825.0	684.6	590.6	519.7	486.5	465.9	458.9
1174.1	12.5°	1135.6	1083.6	937.0	752.0	578.8	488.2	443.1	426.5	420.0	417.8
1235.4	15°	1186.8	1116.8	909.9	665.4	489.1	425.6	406.4	404.2	405.1	404.2
1308.9	17.5°	1247.6	1153.1	865.7	576.1	428.7	393.7	386.7	388.5	390.6	390.2
1391.1	20°	1314.1	1189.0	809.3	497.0	387.6	371.0	367.0	368.8	370.5	369.7
1486.0	22.5°	1389.8	1227.5	746.7	435.3	360.0	350.0	345.6	346.0	346.0	344.3
1606.3	25°	1480.4	1269.9	681.1	391.5	339.0	331.2	325.9	324.2	321.5	316.3
1752.5	27.5°	1588.4	1315.0	618.1	360.9	322.4	315.0	308.8	304.5	297.9	289.2
1927.9	30°	1710.0	1369.7	564.8	341.7	309.3	301.8	294.8	288.3	278.7	267.7
2129.5	32.5°	1853.1	1428.3	525.8	329.0	297.5	289.6	281.3	273.4	262.9	252.0
2356.1	35°	2023.7	1499.2	503.1	320.2	288.3	277.8	268.6	259.8	252.0	242.4
2602.4	37.5°	2208.7	1574.4	496.1	315.8	282.2	266.0	255.5	249.4	248.5	242.8
2868.8	40°	2411.3	1663.6	501.3	313.2	275.6	254.6	243.2	241.9	244.1	234.0
3153.6	42.5°	2625.6	1769.5	510.1	310.2	266.4	243.2	232.3	232.3	230.5	216.5
3454.6	45°	2857.5	1891.6	518.8	302.7	255.5	231.9	223.5	220.5	213.0	199.5
3757.3	47.5°	3091.1	2015.8	525.4	289.2	242.4	222.2	214.8	207.8	196.9	184.6
4054.3	50°	3312.9	2127.4	518.4	269.0	227.5	213.0	205.2	195.5	183.7	175.4
4335.6	52.5°	3511.0	2224.0	488.6	245.4	211.7	203.4	196.4	186.4	176.7	168.0
4589.4	55°	3683.4	2302.3	436.1	223.1	197.7	195.1	188.1	175.4	162.3	154.9
4840.9	57.5°	3848.7	2361.8	370.5	204.7	185.0	185.9	175.4	164.0	151.8	143.9
5179.9	60°	4068.8	2441.4	304.0	187.7	171.5	174.1	162.7	154.4	139.1	129.0
5761.3	62.5°	4420.5	2565.2	241.5	166.7	155.7	156.6	151.8	141.7	123.4	111.6
6192.2	65°	4699.6	2519.7	190.3	143.9	137.8	139.1	139.1	128.2	108.5	94.9
6215.4	67.5°	4668.1	2157.5	151.8	121.6	120.7	121.6	124.7	115.5	96.2	85.3
5742.1	70°	4300.2	1716.1	121.6	101.1	105.0	102.8	111.6	105.4	86.6	75.7
4451.6	72.5°	3508.8	1236.3	92.7	83.6	80.5	84.0	100.6	94.9	72.2	59.9
2357.9	75°	2050.4	659.7	69.1	66.1	58.2	70.0	89.2	80.9	55.1	44.2
722.7	77.5°	667.6	230.1	50.7	48.6	43.3	56.4	76.1	68.2	45.1	35.0
211.7	80°	178.9	69.6	34.6	31.9	28.0	42.0	60.4	54.2	32.4	22.7
91.0	82.5°	71.7	29.3	20.1	17.9	15.3	28.9	47.7	43.7	24.1	14.4
28.4	85°	23.2	9.6	7.4	5.7	7.0	17.9	28.4	29.7	17.1	7.4
4.4	87.5°	3.1	1.3	1.3	1.7	1.3	3.1	8.7	8.3	4.8	0.9
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

180°
1006.6
887.6
718.3
555.6
453.6
416.5
403.8
389.3
369.2
343.4
315.4
288.3
266.8
252.4
241.5
242.4
234.5
216.5
199.0
184.2
174.1
167.1
154.0
143.0
127.7
110.7
93.6
83.6
74.4
58.6
42.9
33.7
22.3
14.4
5.7
0.0
0.0

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