

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: P939884

Luminaire Tested: **GALN-SB2C-940-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939884
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-SB2C-940-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 615mA 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: 7925 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

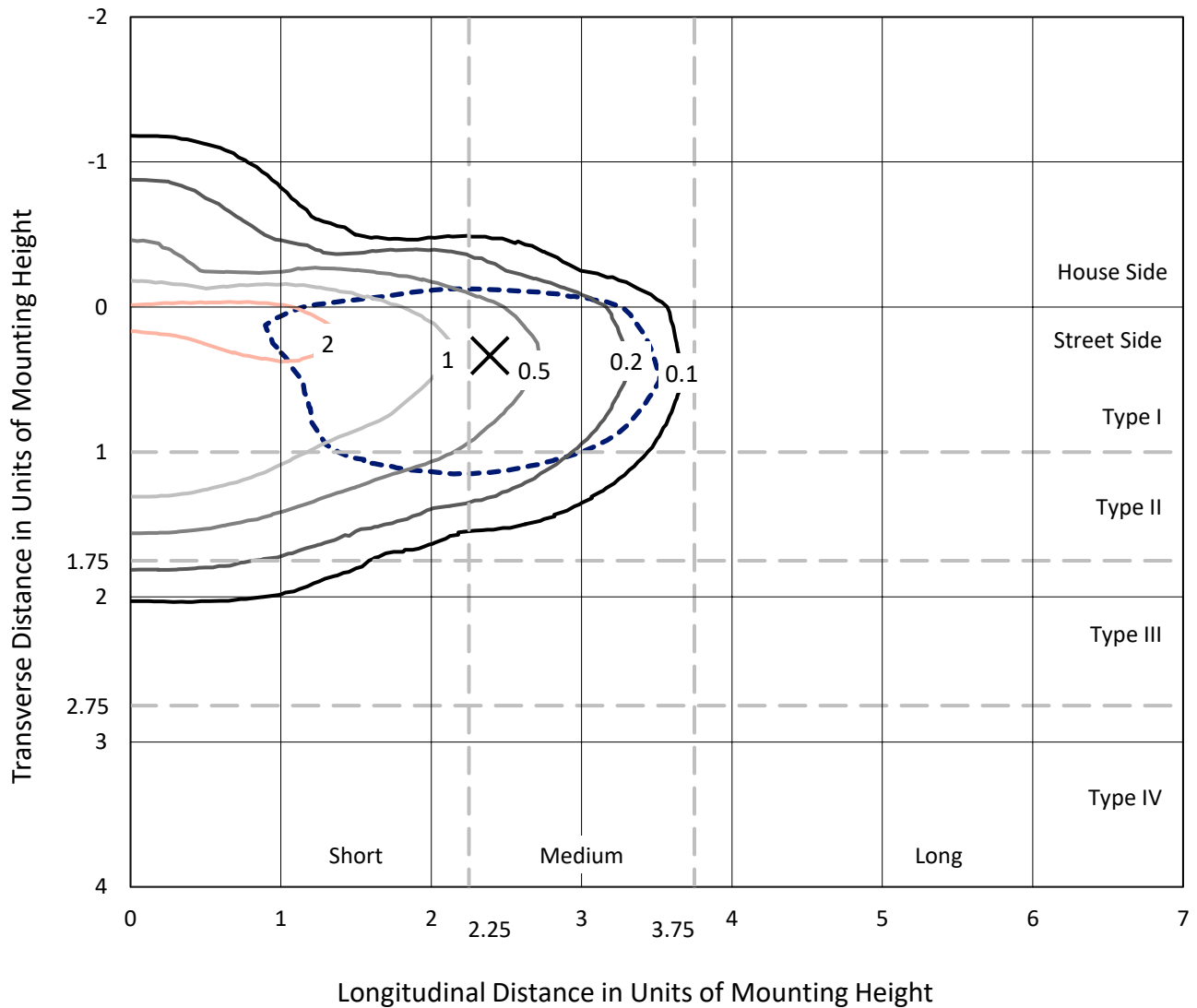
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

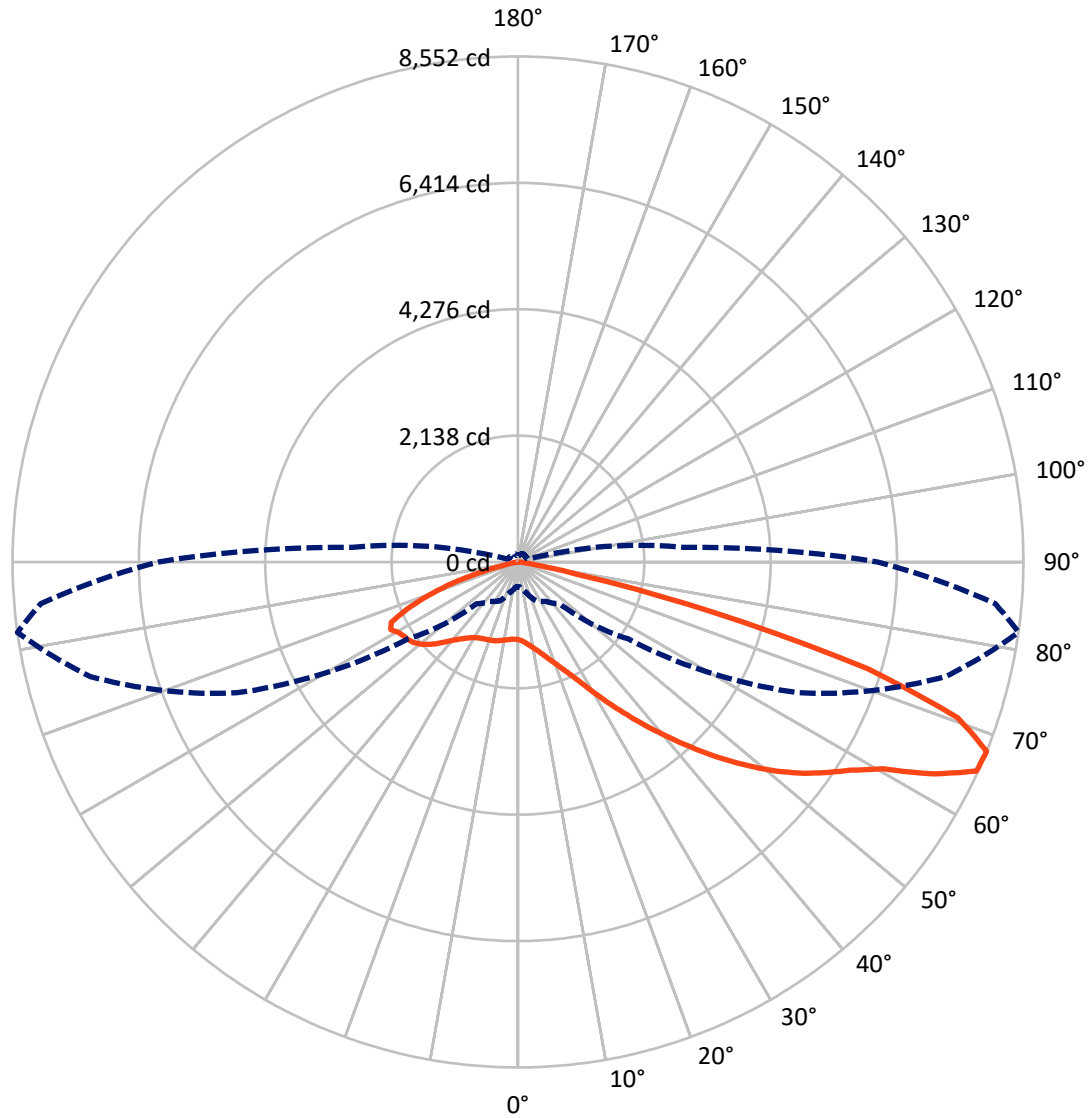
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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
House Side	Lumens	1435.5	0.0	1435.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6489.5	0.0	6489.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	7925.0	0.0	7925.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	1.5
10°-20°	304.0	3.8
20°-30°	486.8	6.1
30°-40°	860.9	10.9
40°-50°	1508.4	19.0
50°-60°	2011.7	25.4
60°-70°	1872.8	23.6
70°-80°	718.8	9.1
80°-90°	44.6	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°	7925.0	100.0
0°-180°	7925.0	100.0

Coefficient of Utilization



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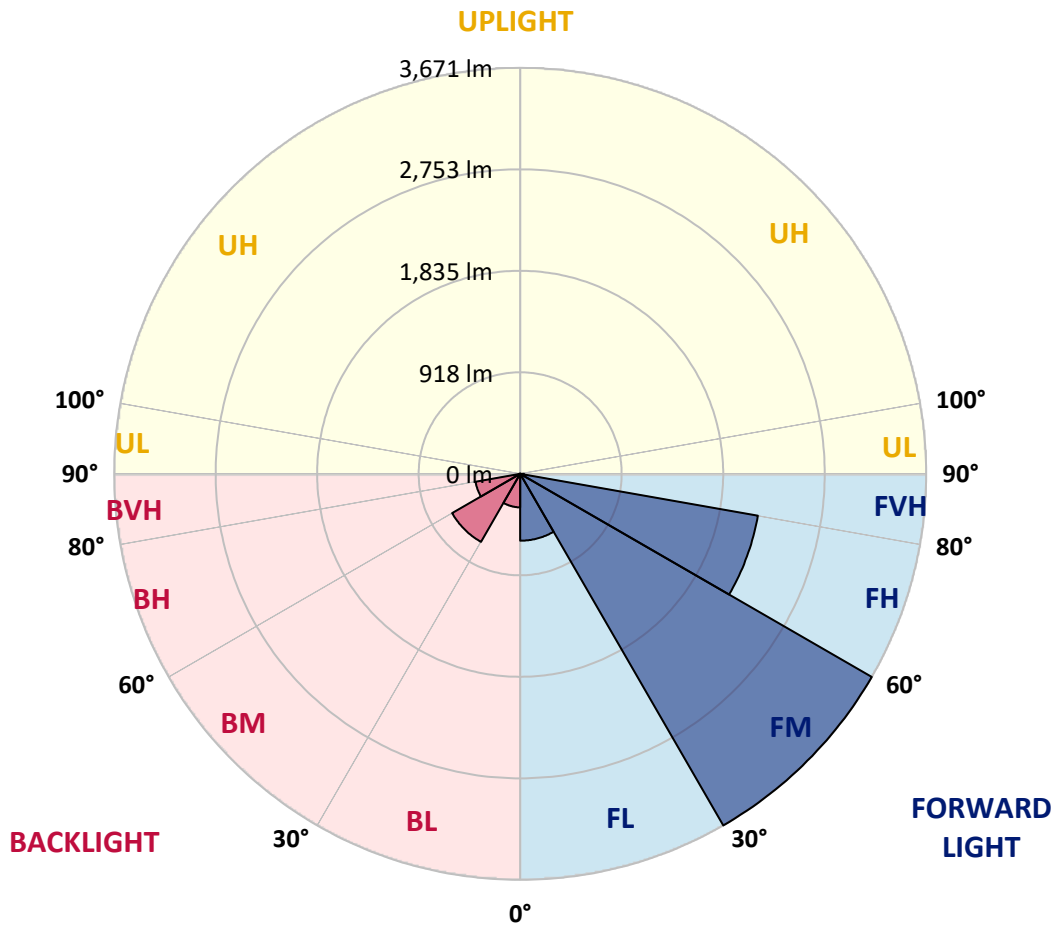
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	604.6	7.6			
FM (30°-60°)	3670.5	46.3			
FH (60°-80°)	2181.9	27.5			G2/5000
FVH (80°-90°)	32.5	0.4			G1/100
BL (0°-30°)	303.2	3.8	B1/500		
BM (30°-60°)	710.4	9.0	B1/1000		
BH (60°-80°)	409.7	5.2	B1/500		G1/500
BVH (80°-90°)	12.2	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°	1312.9	1312.9	1312.9	1312.9	1312.9	1312.9	1312.9	1312.9	1312.9	1312.9
2.5°	1387.7	1395.6	1391.1	1388.8	1384.8	1379.1	1374.5	1360.3	1345.4	1335.7
5°	1415.6	1423.6	1423.0	1425.3	1428.2	1429.9	1428.7	1412.8	1391.6	1375.1
7.5°	1391.6	1400.8	1408.2	1419.6	1439.6	1460.7	1471.0	1467.5	1445.8	1423.0
10°	1323.7	1333.4	1351.1	1378.0	1420.2	1465.8	1504.0	1521.7	1508.0	1482.9
12.5°	1199.4	1209.1	1243.9	1302.1	1372.8	1452.1	1525.2	1572.5	1575.9	1550.8
15°	1059.6	1069.3	1106.4	1179.4	1287.2	1414.5	1536.6	1626.2	1656.4	1634.7
17.5°	972.8	981.4	1009.4	1068.1	1180.5	1339.2	1532.6	1683.2	1752.3	1735.1
20°	946.6	954.0	967.1	1008.2	1101.8	1261.0	1506.3	1736.8	1855.5	1845.8
22.5°	974.6	981.4	985.4	1003.7	1062.4	1209.6	1473.2	1791.6	1975.3	1976.5
25°	1039.0	1045.9	1041.3	1052.7	1078.4	1193.7	1460.7	1856.1	2126.0	2138.5
27.5°	1145.2	1145.7	1134.9	1134.3	1138.3	1217.6	1473.8	1925.1	2316.0	2339.4
30°	1358.0	1349.4	1307.8	1262.7	1242.2	1289.5	1510.3	2006.7	2540.2	2581.9
32.5°	1686.1	1673.5	1597.1	1489.2	1380.8	1405.3	1575.9	2099.7	2784.4	2859.7
35°	2042.1	2038.7	1958.8	1798.5	1609.0	1570.2	1682.6	2221.8	3050.9	3170.7
37.5°	2373.0	2371.3	2325.7	2136.8	1906.3	1800.2	1853.8	2381.6	3336.2	3509.6
40°	2675.4	2680.6	2634.9	2466.0	2233.8	2095.2	2086.6	2579.0	3653.4	3878.8
42.5°	2936.8	2942.5	2896.3	2771.3	2557.3	2421.5	2372.5	2820.9	3963.2	4275.4
45°	3114.2	3149.6	3142.8	3042.9	2889.4	2748.5	2716.0	3124.5	4316.4	4695.9
47.5°	3164.4	3197.0	3248.3	3262.0	3168.4	3029.8	3068.6	3490.2	4673.6	5117.0
50°	3040.6	3070.9	3177.6	3319.6	3384.7	3341.9	3411.5	3882.2	5039.4	5536.9
52.5°	2796.4	2827.2	2961.9	3186.7	3452.0	3586.7	3755.6	4268.5	5393.7	5934.6
55°	2443.2	2475.7	2648.6	2903.1	3323.6	3687.7	4042.6	4654.2	5718.4	6292.4
57.5°	1962.8	1986.8	2166.5	2522.5	3000.7	3587.2	4254.2	5075.3	6024.2	6643.8
60°	1279.2	1300.4	1509.2	1906.3	2465.5	3251.7	4296.5	5544.9	6430.4	7100.9
62.5°	850.7	865.0	988.8	1280.4	1736.3	2607.6	4049.4	5919.8	7026.1	7896.3
65°	583.7	598.0	721.8	924.9	1121.8	1724.9	3339.0	5870.1	7565.9	8527.9
67.5°	416.5	428.5	533.5	725.2	811.9	1001.9	2263.5	5235.6	7488.3	8551.9
70°	298.4	305.3	392.0	564.9	645.3	602.0	1258.7	4004.3	6556.5	7896.8
72.5°	208.8	211.1	272.2	430.2	519.8	439.3	599.1	2669.7	4958.9	6198.2
75°	141.5	144.4	183.2	315.5	417.1	335.5	317.2	1431.6	2911.1	3430.9
77.5°	86.7	87.9	118.1	215.7	312.1	255.6	204.3	606.5	1126.3	1105.8
80°	49.1	49.1	75.3	134.1	212.8	164.9	143.2	257.9	356.6	313.2
82.5°	27.4	28.0	54.8	83.3	140.9	97.6	78.7	119.3	154.1	136.4
85°	11.4	12.6	33.7	39.4	67.3	48.5	32.0	50.2	57.1	50.8
87.5°	1.1	1.7	10.3	7.4	8.0	9.7	4.6	9.7	8.0	8.0
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°
1312.9	0°	1312.9	1312.9	1312.9	1312.9	1312.9	1312.9	1312.9	1312.9	1312.9	1312.9
1332.3	2.5°	1321.5	1312.9	1291.2	1266.1	1233.0	1217.0	1195.4	1180.5	1168.0	1169.1
1365.4	5°	1347.1	1325.5	1277.0	1216.5	1141.2	1087.5	1030.5	991.1	959.1	952.3
1411.0	7.5°	1382.5	1348.3	1263.3	1154.3	1027.0	930.6	844.5	789.1	749.7	737.2
1466.4	10°	1428.2	1378.5	1245.6	1076.1	893.0	770.3	677.8	634.5	607.7	598.5
1531.4	12.5°	1481.2	1413.3	1222.2	980.8	754.9	636.8	578.0	556.3	547.8	544.9
1611.3	15°	1548.0	1456.7	1186.8	867.9	637.9	555.2	530.1	527.2	528.4	527.2
1707.2	17.5°	1627.3	1504.0	1129.2	751.5	559.2	513.5	504.4	506.7	509.5	509.0
1814.4	20°	1714.0	1550.8	1055.6	648.2	505.5	483.9	478.7	481.0	483.3	482.1
1938.3	22.5°	1812.7	1601.0	974.0	567.7	469.6	456.5	450.8	451.3	451.3	449.0
2095.2	25°	1930.8	1656.4	888.4	510.7	442.2	431.9	425.1	422.8	419.4	412.5
2285.7	27.5°	2071.8	1715.2	806.2	470.7	420.5	410.8	402.8	397.1	388.6	377.2
2514.5	30°	2230.4	1786.5	736.6	445.6	403.4	393.7	384.6	376.0	363.5	349.2
2777.6	32.5°	2417.0	1862.9	685.8	429.1	388.0	377.7	366.9	356.6	342.9	328.7
3073.1	35°	2639.5	1955.4	656.2	417.7	376.0	362.3	350.3	338.9	328.7	316.1
3394.4	37.5°	2880.9	2053.5	647.0	412.0	368.0	346.9	333.2	325.2	324.1	316.7
3741.9	40°	3145.0	2169.9	653.9	408.5	359.5	332.1	317.2	315.5	318.4	305.3
4113.3	42.5°	3424.6	2308.0	665.3	404.5	347.5	317.2	303.0	303.0	300.7	282.4
4505.9	45°	3727.0	2467.2	676.7	394.8	333.2	302.4	291.6	287.6	277.9	260.2
4900.7	47.5°	4031.7	2629.2	685.3	377.2	316.1	289.9	280.2	271.0	256.8	240.8
5288.1	50°	4321.0	2774.7	676.1	350.9	296.7	277.9	267.6	255.0	239.6	228.8
5655.0	52.5°	4579.5	2900.8	637.3	320.1	276.2	265.3	256.2	243.1	230.5	219.1
5986.0	55°	4804.3	3003.0	568.9	291.0	257.9	254.5	245.3	228.8	211.7	202.0
6314.0	57.5°	5020.0	3080.6	483.3	267.0	241.4	242.5	228.8	214.0	198.0	187.7
6756.2	60°	5307.0	3184.4	396.6	244.8	223.7	227.1	212.3	201.4	181.4	168.3
7514.5	62.5°	5765.7	3345.9	315.0	217.4	203.1	204.3	198.0	184.9	160.9	145.5
8076.6	65°	6129.7	3286.5	248.2	187.7	179.7	181.4	181.4	167.2	141.5	123.8
8106.8	67.5°	6088.7	2814.1	198.0	158.6	157.5	158.6	162.6	150.6	125.5	111.3
7489.4	70°	5608.8	2238.4	158.6	131.8	136.9	134.1	145.5	137.5	113.0	98.7
5806.2	72.5°	4576.6	1612.5	121.0	109.0	105.0	109.6	131.2	123.8	94.1	78.2
3075.4	75°	2674.3	860.4	90.2	86.2	75.9	91.3	116.4	105.6	71.9	57.6
942.6	77.5°	870.7	300.1	66.2	63.3	56.5	73.6	99.3	89.0	58.8	45.6
276.2	80°	233.4	90.7	45.1	41.7	36.5	54.8	78.7	70.8	42.2	29.7
118.7	82.5°	93.6	38.2	26.2	23.4	20.0	37.7	62.2	57.1	31.4	18.8
37.1	85°	30.2	12.6	9.7	7.4	9.1	23.4	37.1	38.8	22.3	9.7
5.7	87.5°	4.0	1.7	1.7	2.3	1.7	4.0	11.4	10.8	6.3	1.1
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°
1312.9
1157.7
936.9
724.6
591.7
543.2
526.6
507.8
481.6
447.9
411.4
376.0
348.1
329.2
315.0
316.1
305.8
282.4
259.6
240.2
227.1
218.0
200.8
186.6
166.6
144.4
122.1
109.0
97.0
76.5
55.9
43.9
29.1
18.8
7.4
0.0
0.0

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