

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: P946000

Luminaire Tested: **GALN-SB1D-740-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-740-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8231 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

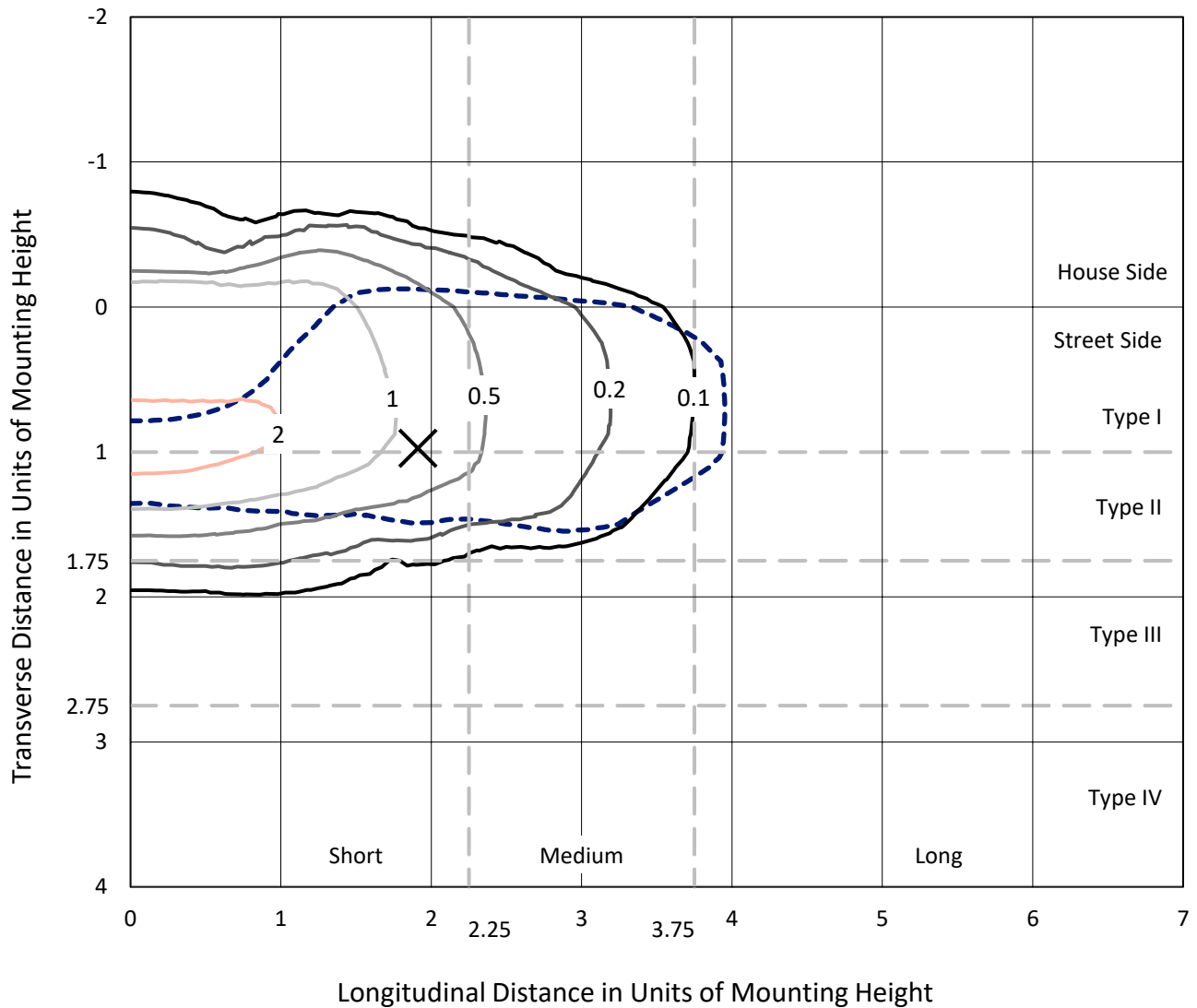
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

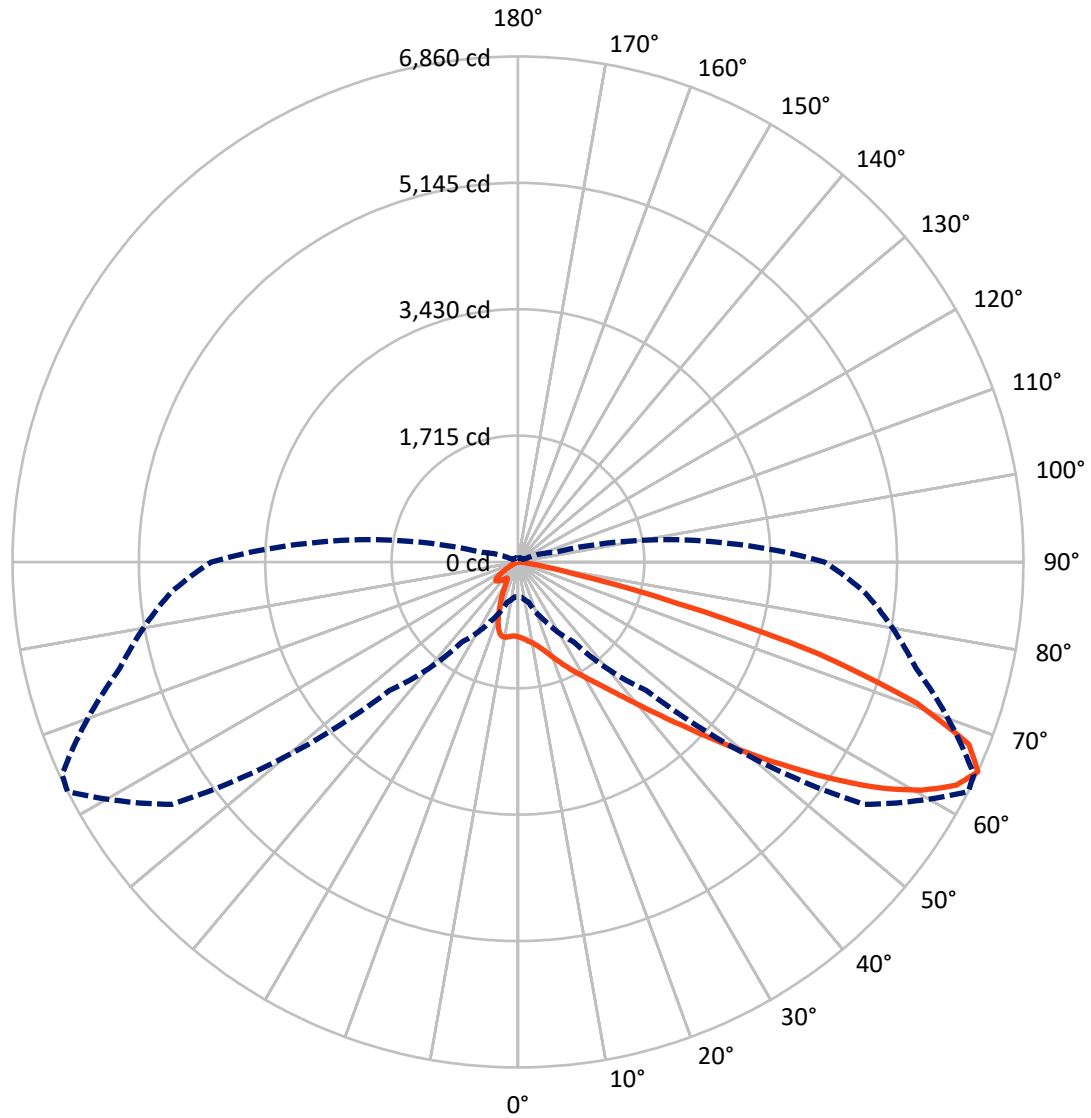
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1209.9	0.0	1209.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	7021.1	0.0	7021.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	8231.0	0.0	8231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	1.2
10°-20°	265.6	3.2
20°-30°	462.4	5.6
30°-40°	833.5	10.1
40°-50°	1653.0	20.1
50°-60°	2251.7	27.4
60°-70°	1797.3	21.8
70°-80°	813.3	9.9
80°-90°	58.5	0.7
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°	8231.0	100.0
0°-180°	8231.0	100.0

Coefficient of Utilization



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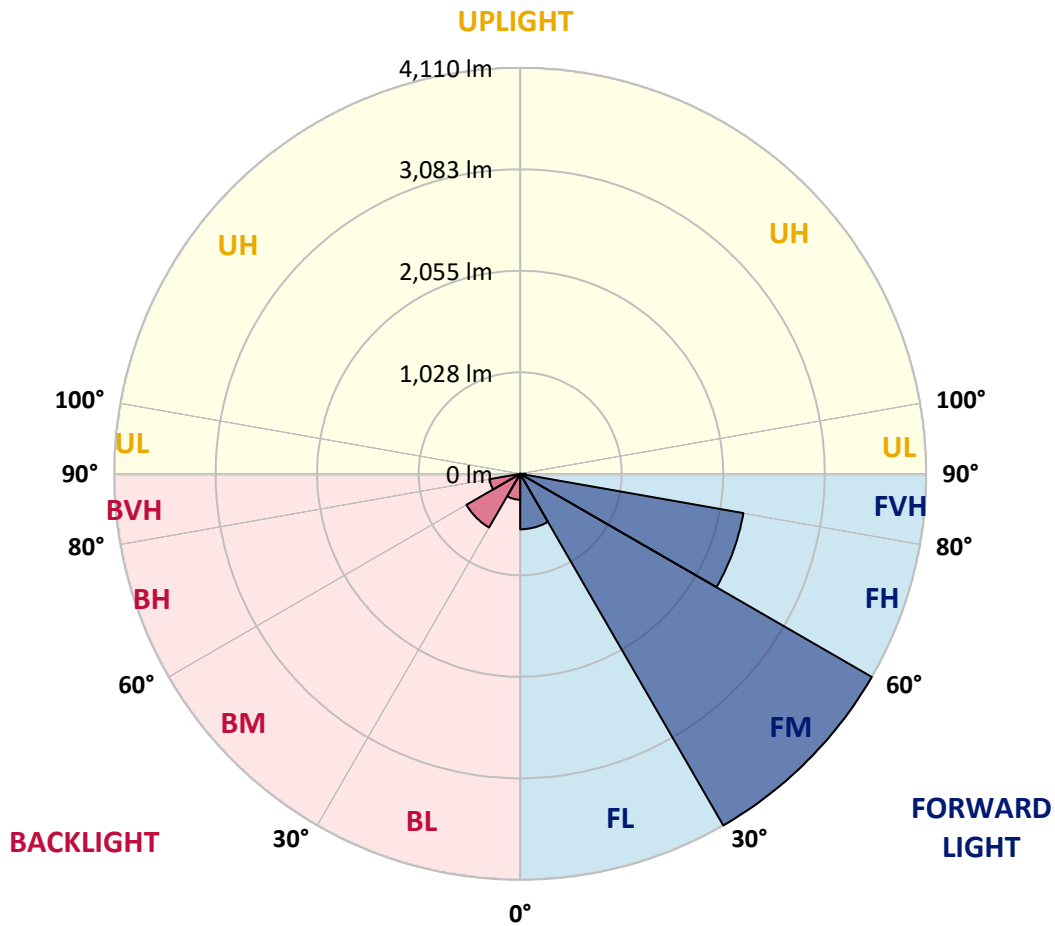
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	561.9	6.8			
FM (30°-60°)	4110.4	49.9			
FH (60°-80°)	2294.8	27.9			G2/5000
FVH (80°-90°)	54.1	0.7			G1/100
BL (0°-30°)	261.8	3.2	B1/500		
BM (30°-60°)	627.9	7.6	B1/1000		
BH (60°-80°)	315.9	3.8	B1/500		G1/500
BVH (80°-90°)	4.3	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9
2.5°	1039.6	1036.8	1040.8	1039.1	1037.9	1035.7	1034.5	1033.4	1031.1	1029.5
5°	1042.5	1040.8	1044.7	1048.1	1051.5	1054.9	1056.6	1058.9	1056.6	1052.1
7.5°	1018.7	1017.6	1026.1	1036.2	1051.5	1064.6	1078.7	1086.6	1087.2	1085.5
10°	1017.0	1014.2	1022.7	1035.1	1054.9	1078.1	1103.1	1120.1	1122.3	1129.7
12.5°	1043.6	1040.8	1052.7	1066.3	1086.6	1111.0	1141.6	1165.4	1168.7	1178.9
15°	1088.3	1084.4	1098.0	1115.5	1141.6	1169.3	1201.6	1223.1	1225.9	1238.4
17.5°	1140.4	1136.5	1152.3	1171.0	1199.3	1237.3	1274.6	1298.4	1301.8	1309.7
20°	1207.3	1202.2	1214.6	1231.6	1261.6	1306.9	1351.6	1385.6	1385.1	1385.1
22.5°	1284.8	1276.9	1287.7	1301.3	1329.6	1384.5	1443.9	1484.2	1484.2	1468.3
25°	1368.1	1360.1	1372.0	1384.5	1409.4	1471.7	1541.3	1591.2	1593.4	1566.3
27.5°	1472.3	1462.1	1471.1	1485.9	1500.6	1564.0	1646.7	1704.4	1705.6	1663.7
30°	1672.7	1643.8	1615.5	1599.7	1606.5	1669.3	1757.7	1821.6	1827.3	1769.5
32.5°	2039.6	2034.0	1934.3	1804.1	1736.1	1782.6	1881.7	1958.7	1962.1	1887.9
35°	2609.9	2603.1	2442.8	2194.8	1973.4	1934.3	2032.3	2123.5	2121.2	2037.4
37.5°	3290.5	3284.3	3073.1	2741.2	2382.8	2163.7	2226.5	2322.2	2336.4	2226.5
40°	3872.0	3848.8	3715.2	3395.3	2926.4	2544.2	2502.8	2566.3	2581.0	2450.8
42.5°	4312.6	4292.8	4224.8	4024.9	3584.4	3107.0	2828.4	2852.8	2869.2	2712.9
45°	4540.8	4536.3	4563.4	4544.8	4254.8	3797.9	3293.9	3192.5	3198.8	3003.4
47.5°	4573.1	4570.8	4694.8	4870.4	4831.3	4577.0	3891.3	3616.1	3594.0	3331.3
50°	4382.8	4378.3	4616.1	4945.1	5216.3	5231.6	4569.7	4093.5	4044.8	3670.5
52.5°	3775.2	3774.1	4164.8	4712.4	5351.7	5804.7	5240.1	4617.8	4536.3	4029.5
55°	2904.9	2925.8	3373.7	4021.0	5104.8	6080.4	5842.0	5199.9	5074.8	4390.7
57.5°	2057.8	2088.3	2531.2	3107.6	4339.2	5917.4	6249.2	5783.2	5648.4	4750.9
60°	1105.3	1132.5	1575.9	2263.9	3228.2	5309.2	6463.8	6289.4	6162.0	5092.9
62.5°	658.6	667.6	851.1	1461.5	2183.5	4056.1	6372.6	6675.0	6570.3	5380.0
65°	472.8	474.5	566.8	892.4	1325.6	2464.3	5733.3	6859.6	6827.3	5596.3
67.5°	398.1	396.9	435.4	592.9	903.2	1234.4	4394.1	6598.6	6735.6	5733.3
70°	341.5	343.2	388.5	434.3	678.9	698.8	2184.6	5745.2	6037.4	5769.6
72.5°	254.2	259.9	301.8	395.8	512.5	480.8	754.3	4259.9	4788.2	5436.0
75°	179.5	182.3	212.3	333.0	382.2	349.9	385.1	2202.2	2879.4	4167.6
77.5°	138.2	143.3	160.8	232.7	376.6	245.8	235.6	762.2	1171.0	2517.6
80°	74.7	83.8	116.1	168.2	264.4	173.8	116.6	303.5	396.9	1177.2
82.5°	38.5	43.0	81.0	121.2	150.6	151.8	57.8	126.3	163.6	363.5
85°	15.3	18.7	54.4	66.8	77.6	74.7	26.0	51.0	58.9	100.8
87.5°	3.4	5.7	19.8	15.3	14.7	15.9	6.2	11.9	11.3	11.9
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°
1015.9	0°	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9
1022.7	2.5°	1022.1	1019.8	1013.6	1006.8	998.9	994.3	991.5	990.9	987.0	984.2
1045.3	5°	1039.1	1036.8	1024.9	1010.8	995.5	983.6	972.3	962.1	947.3	944.5
1078.1	7.5°	1073.1	1066.8	1047.6	1028.3	999.4	964.9	923.0	874.9	831.8	818.8
1121.8	10°	1115.0	1106.5	1082.1	1048.1	984.2	890.2	788.8	694.8	620.0	599.1
1173.3	12.5°	1162.5	1155.2	1122.9	1060.0	920.2	749.7	594.6	477.9	405.4	387.3
1228.2	15°	1219.1	1208.4	1163.7	1041.9	805.8	569.7	408.3	339.2	313.1	309.7
1291.1	17.5°	1279.2	1261.6	1199.9	976.8	651.8	404.9	315.4	295.6	284.3	280.9
1354.5	20°	1334.1	1311.4	1221.4	878.3	487.0	315.4	282.6	269.5	259.3	255.4
1417.9	22.5°	1389.0	1356.7	1221.4	744.1	365.2	279.7	259.3	247.5	235.6	230.5
1485.9	25°	1446.2	1403.2	1199.9	594.6	293.9	256.5	237.3	224.2	214.0	207.8
1550.4	27.5°	1501.7	1442.3	1150.6	453.0	261.6	236.1	216.9	204.4	194.8	190.3
1620.6	30°	1554.4	1480.8	1081.5	343.7	240.7	216.3	198.2	187.4	177.8	173.3
1711.8	32.5°	1625.7	1529.5	1007.9	282.0	222.5	197.6	181.2	171.0	162.5	159.1
1830.1	35°	1724.8	1601.4	944.5	276.9	207.2	182.3	165.9	156.3	147.8	145.0
1983.0	37.5°	1865.2	1717.5	911.1	310.9	194.8	168.7	153.5	143.3	135.3	133.1
2177.2	40°	2038.5	1874.9	929.2	344.8	186.3	156.9	142.1	131.9	125.1	122.3
2400.4	42.5°	2244.1	2069.1	1029.5	370.9	180.6	146.7	131.4	120.0	115.5	114.4
2653.5	45°	2480.2	2282.6	1182.9	398.6	171.6	137.0	120.6	112.1	108.7	108.2
2928.7	47.5°	2748.6	2517.0	1360.7	433.2	162.5	128.0	112.1	106.5	103.6	102.5
3215.8	50°	3014.7	2753.1	1543.6	452.4	155.2	119.5	105.3	100.8	98.5	98.0
3519.3	52.5°	3293.3	2996.1	1691.4	434.3	148.9	112.7	99.7	96.3	94.0	93.4
3799.0	55°	3558.9	3192.5	1716.9	368.6	136.5	105.9	93.4	91.7	88.9	88.9
4082.7	57.5°	3787.7	3291.1	1536.8	270.7	124.0	95.7	87.2	85.5	83.2	82.7
4338.6	60°	3997.8	3262.8	1186.3	182.3	110.4	85.5	79.3	78.1	75.9	73.0
4561.2	62.5°	4116.1	3138.2	811.4	118.9	96.8	74.7	70.2	69.6	64.6	58.9
4726.0	65°	4160.8	2882.2	506.2	86.6	81.0	64.0	60.6	59.5	52.1	45.9
4819.4	67.5°	4121.8	2460.9	255.4	68.5	64.0	53.2	49.8	49.8	44.7	39.1
4813.7	70°	3965.5	1844.9	107.6	54.9	49.3	40.8	40.8	43.0	37.9	31.7
4564.0	72.5°	3626.3	1241.2	57.2	41.9	36.8	28.9	33.4	35.1	30.0	23.8
3735.6	75°	2882.8	757.1	39.6	31.1	23.2	20.4	25.5	26.6	20.4	15.9
2561.2	77.5°	1971.7	434.9	26.6	19.8	14.7	11.9	17.6	16.4	10.8	7.4
987.5	80°	865.8	181.2	15.3	9.1	5.7	4.5	6.2	4.5	3.4	2.3
135.3	82.5°	101.4	42.5	5.7	3.4	2.3	1.1	0.6	0.0	0.0	0.0
41.3	85°	21.0	5.1	2.8	1.1	0.6	0.0	0.0	0.0	0.0	0.0
7.4	87.5°	4.0	1.1	0.6	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°
1015.9
987.0
943.4
812.6
591.2
382.2
306.3
279.2
253.1
227.6
205.6
190.3
173.8
159.1
145.0
132.5
121.7
114.4
107.6
102.5
98.0
93.4
88.3
82.1
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