

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: P946840

Luminaire Tested: **GALN-SB2B-840-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946840
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-SB2B-840-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8232 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

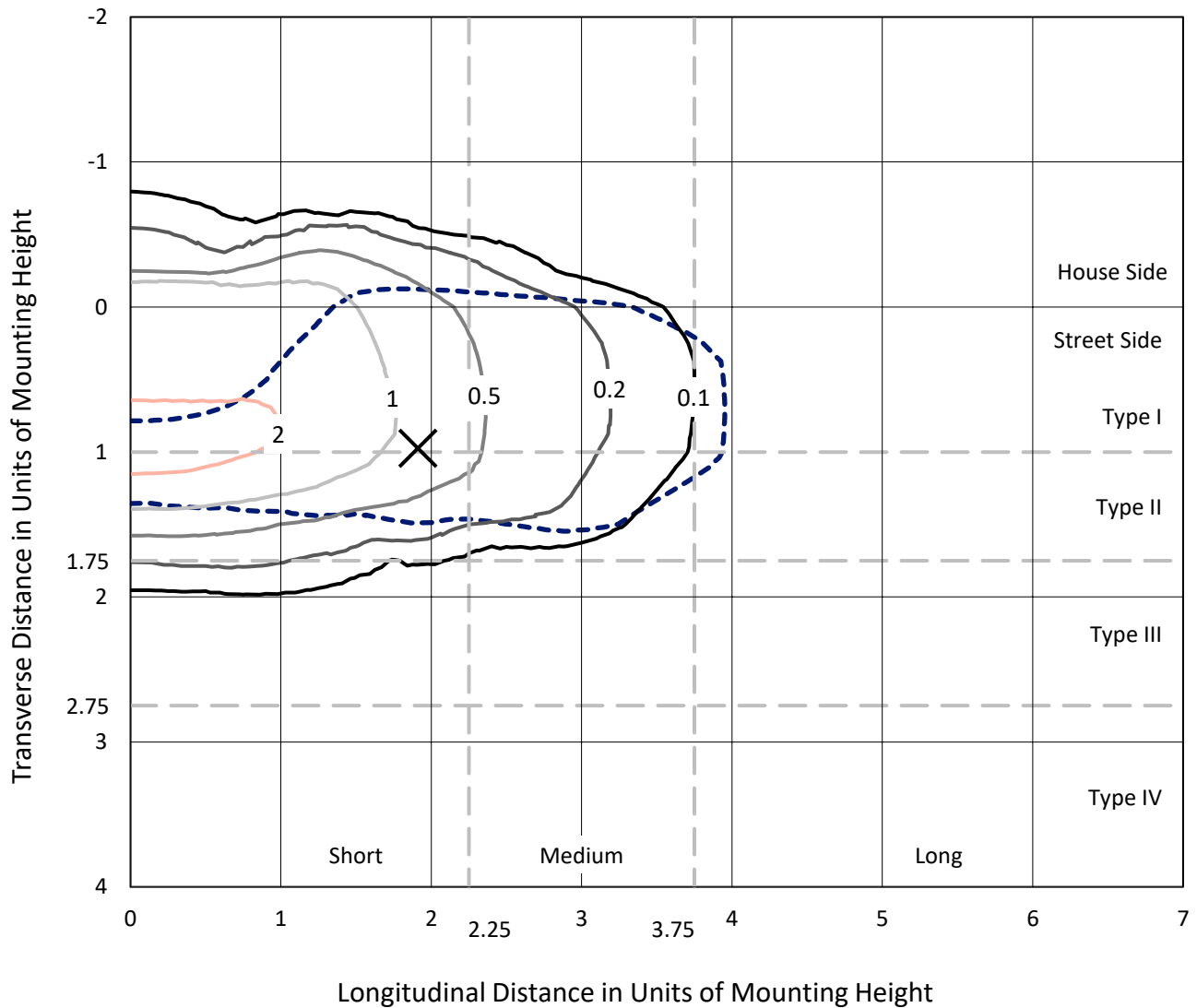
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

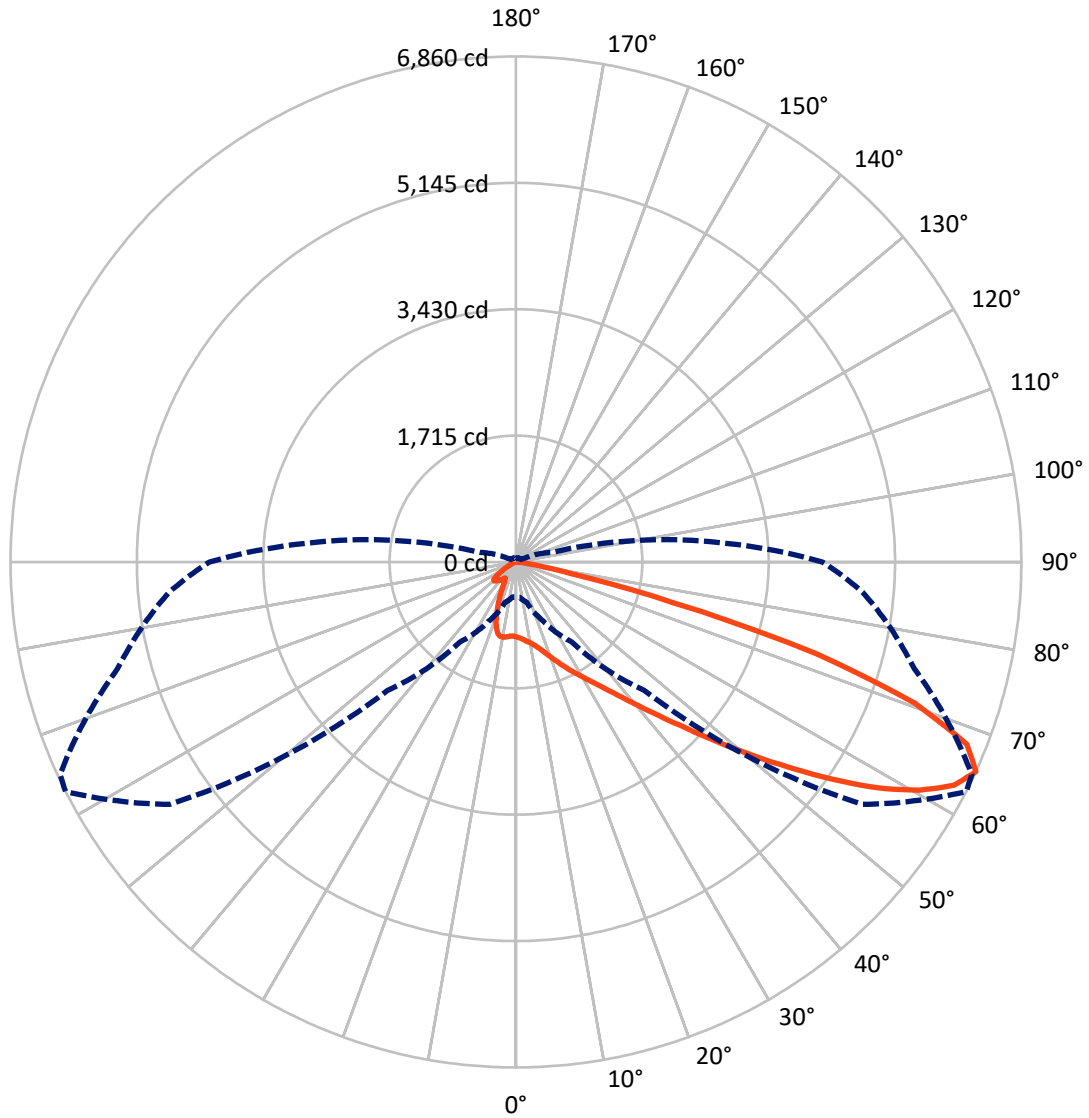
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - 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	1210.0	0.0	1210.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	7022.0	0.0	7022.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	8232.0	0.0	8232.0
	% 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°	462.5	5.6
30°-40°	833.6	10.1
40°-50°	1653.2	20.1
50°-60°	2252.0	27.4
60°-70°	1797.5	21.8
70°-80°	813.4	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°	8232.0	100.0
0°-180°	8232.0	100.0

Coefficient of Utilization



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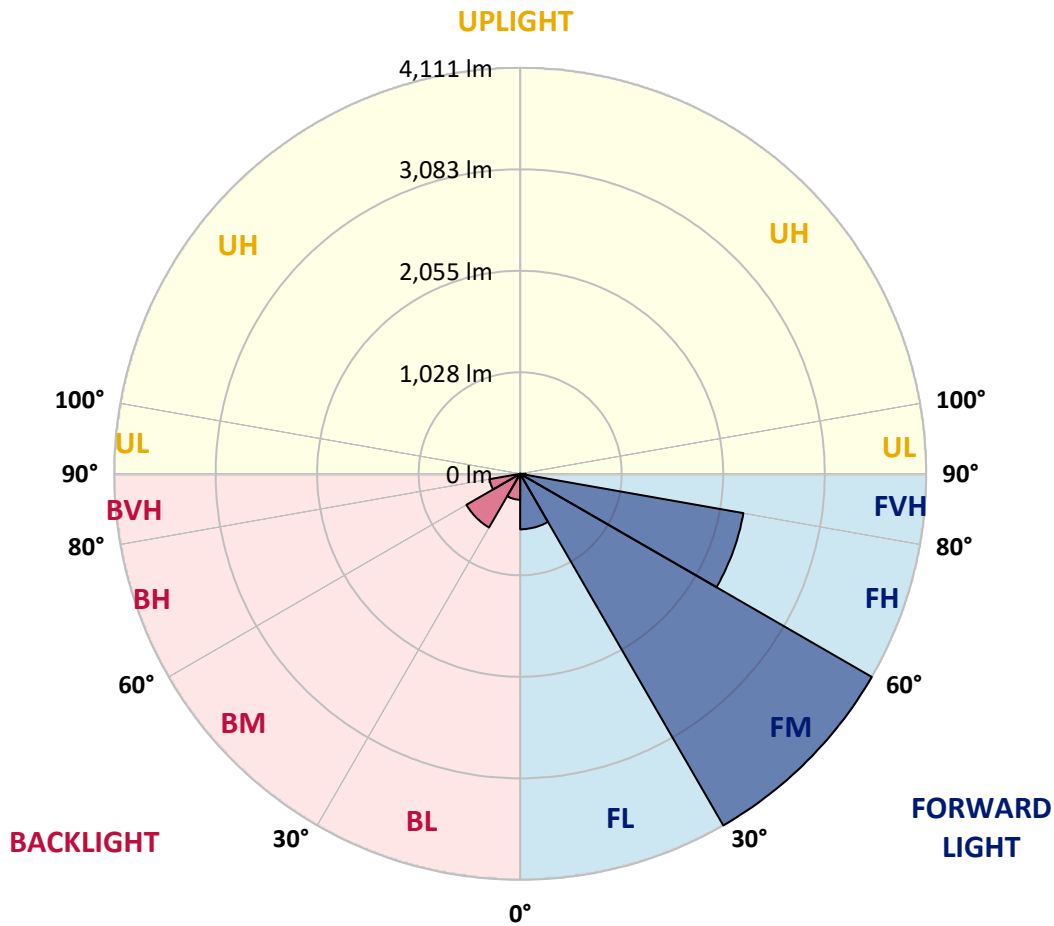
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	561.9	6.8			
FM (30°-60°)	4110.9	49.9			
FH (60°-80°)	2295.0	27.9			G2/5000
FVH (80°-90°)	54.1	0.7			G1/100
BL (0°-30°)	261.9	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°	1016.0	1016.0	1016.0	1016.0	1016.0	1016.0	1016.0	1016.0	1016.0	1016.0
2.5°	1039.8	1036.9	1040.9	1039.2	1038.1	1035.8	1034.7	1033.5	1031.3	1029.6
5°	1042.6	1040.9	1044.9	1048.3	1051.7	1055.1	1056.8	1059.0	1056.8	1052.2
7.5°	1018.8	1017.7	1026.2	1036.4	1051.7	1064.7	1078.8	1086.8	1087.3	1085.6
10°	1017.1	1014.3	1022.8	1035.2	1055.1	1078.3	1103.2	1120.2	1122.5	1129.8
12.5°	1043.7	1040.9	1052.8	1066.4	1086.8	1111.1	1141.7	1165.5	1168.9	1179.1
15°	1088.5	1084.5	1098.1	1115.7	1141.7	1169.5	1201.7	1223.3	1226.1	1238.5
17.5°	1140.6	1136.6	1152.5	1171.2	1199.5	1237.4	1274.8	1298.6	1302.0	1309.9
20°	1207.4	1202.3	1214.8	1231.8	1261.8	1307.1	1351.8	1385.8	1385.2	1385.2
22.5°	1285.0	1277.1	1287.8	1301.4	1329.7	1384.7	1444.1	1484.3	1484.3	1468.5
25°	1368.2	1360.3	1372.2	1384.7	1409.6	1471.9	1541.5	1591.4	1593.6	1566.5
27.5°	1472.4	1462.2	1471.3	1486.0	1500.8	1564.2	1646.9	1704.6	1705.8	1663.9
30°	1672.9	1644.0	1615.7	1599.9	1606.7	1669.5	1757.9	1821.9	1827.5	1769.8
32.5°	2039.9	2034.2	1934.6	1804.3	1736.3	1782.8	1881.9	1958.9	1962.3	1888.1
35°	2610.2	2603.4	2443.1	2195.1	1973.6	1934.6	2032.5	2123.7	2121.4	2037.6
37.5°	3290.9	3284.7	3073.4	2741.6	2383.1	2163.9	2226.8	2322.5	2336.7	2226.8
40°	3872.5	3849.3	3715.6	3395.7	2926.8	2544.5	2503.1	2566.6	2581.3	2451.0
42.5°	4313.1	4293.3	4225.3	4025.4	3584.8	3107.4	2828.8	2853.1	2869.6	2713.3
45°	4541.3	4536.8	4564.0	4545.3	4255.4	3798.3	3294.3	3192.9	3199.2	3003.8
47.5°	4573.6	4571.4	4695.4	4870.9	4831.9	4577.6	3891.8	3616.5	3594.5	3331.7
50°	4383.3	4378.8	4616.7	4945.7	5217.0	5232.3	4570.2	4094.0	4045.2	3670.9
52.5°	3775.7	3774.5	4165.3	4712.9	5352.3	5805.4	5240.8	4618.4	4536.8	4030.0
55°	2905.2	2926.2	3374.2	4021.5	5105.4	6081.2	5842.8	5200.5	5075.4	4391.3
57.5°	2058.0	2088.6	2531.5	3108.0	4339.7	5918.1	6249.9	5783.9	5649.1	4751.5
60°	1105.5	1132.6	1576.1	2264.2	3228.6	5309.8	6464.6	6290.2	6162.7	5093.5
62.5°	658.6	667.7	851.2	1461.7	2183.7	4056.6	6373.4	6675.8	6571.1	5380.6
65°	472.9	474.6	566.9	892.5	1325.8	2464.6	5734.0	6860.4	6828.2	5597.0
67.5°	398.1	397.0	435.5	592.9	903.3	1234.6	4394.7	6599.4	6736.4	5734.0
70°	341.5	343.2	388.5	434.4	679.0	698.8	2184.9	5745.9	6038.1	5770.3
72.5°	254.3	259.9	301.9	395.9	512.5	480.8	754.3	4260.5	4788.8	5436.7
75°	179.5	182.4	212.4	333.0	382.3	350.0	385.1	2202.4	2879.8	4168.1
77.5°	138.2	143.3	160.8	232.8	376.6	245.8	235.6	762.3	1171.2	2517.9
80°	74.8	83.8	116.1	168.2	264.5	173.9	116.7	303.5	397.0	1177.4
82.5°	38.5	43.0	81.0	121.2	150.6	151.8	57.8	126.3	163.7	363.6
85°	15.3	18.7	54.4	66.8	77.6	74.8	26.1	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°
1016.0	0°	1016.0	1016.0	1016.0	1016.0	1016.0	1016.0	1016.0	1016.0	1016.0	1016.0
1022.8	2.5°	1022.2	1019.9	1013.7	1006.9	999.0	994.5	991.6	991.1	987.1	984.3
1045.4	5°	1039.2	1036.9	1025.0	1010.9	995.6	983.7	972.4	962.2	947.5	944.6
1078.3	7.5°	1073.2	1067.0	1047.7	1028.4	999.6	965.0	923.1	875.0	831.9	818.9
1121.9	10°	1115.1	1106.6	1082.2	1048.3	984.3	890.3	788.9	694.9	620.1	599.2
1173.4	12.5°	1162.7	1155.3	1123.0	1060.2	920.3	749.8	594.6	478.0	405.5	387.4
1228.4	15°	1219.3	1208.5	1163.8	1042.0	805.9	569.7	408.3	339.2	313.2	309.8
1291.2	17.5°	1279.3	1261.8	1200.0	976.9	651.8	404.9	315.4	295.6	284.3	280.9
1354.6	20°	1334.3	1311.6	1221.6	878.4	487.0	315.4	282.6	269.6	259.4	255.4
1418.1	22.5°	1389.2	1356.9	1221.6	744.1	365.3	279.8	259.4	247.5	235.6	230.5
1486.0	25°	1446.4	1403.3	1200.0	594.6	293.9	256.5	237.3	224.3	214.1	207.8
1550.6	27.5°	1501.9	1442.4	1150.8	453.1	261.6	236.2	216.9	204.4	194.8	190.3
1620.8	30°	1554.6	1480.9	1081.7	343.8	240.7	216.3	198.2	187.5	177.8	173.3
1712.0	32.5°	1625.9	1529.6	1008.1	282.0	222.6	197.6	181.2	171.0	162.5	159.1
1830.4	35°	1725.0	1601.6	944.6	276.9	207.3	182.4	165.9	156.3	147.8	145.0
1983.3	37.5°	1865.5	1717.7	911.2	310.9	194.8	168.8	153.5	143.3	135.4	133.1
2177.5	40°	2038.8	1875.1	929.3	344.9	186.3	156.9	142.1	132.0	125.2	122.3
2400.6	42.5°	2244.3	2069.3	1029.6	370.9	180.7	146.7	131.4	120.1	115.5	114.4
2653.8	45°	2480.5	2282.8	1183.0	398.7	171.6	137.1	120.6	112.1	108.7	108.2
2929.0	47.5°	2748.9	2517.3	1360.9	433.2	162.5	128.0	112.1	106.5	103.6	102.5
3216.2	50°	3015.1	2753.5	1543.8	452.5	155.2	119.5	105.3	100.8	98.5	98.0
3519.7	52.5°	3293.7	2996.4	1691.6	434.4	148.9	112.7	99.7	96.3	94.0	93.4
3799.5	55°	3559.3	3192.9	1717.1	368.7	136.5	105.9	93.4	91.7	88.9	88.9
4083.2	57.5°	3788.1	3291.5	1537.0	270.7	124.0	95.7	87.2	85.5	83.2	82.7
4339.2	60°	3998.2	3263.2	1186.4	182.4	110.4	85.5	79.3	78.2	75.9	73.1
4561.7	62.5°	4116.6	3138.6	811.5	118.9	96.8	74.8	70.2	69.7	64.6	58.9
4726.5	65°	4161.3	2882.6	506.3	86.6	81.0	64.0	60.6	59.5	52.1	45.9
4820.0	67.5°	4122.3	2461.2	255.4	68.5	64.0	53.2	49.8	49.8	44.7	39.1
4814.3	70°	3966.0	1845.1	107.6	54.9	49.3	40.8	40.8	43.0	37.9	31.7
4564.6	72.5°	3626.7	1241.4	57.2	41.9	36.8	28.9	33.4	35.1	30.0	23.8
3736.0	75°	2883.2	757.2	39.6	31.1	23.2	20.4	25.5	26.6	20.4	15.9
2561.5	77.5°	1971.9	434.9	26.6	19.8	14.7	11.9	17.6	16.4	10.8	7.4
987.7	80°	865.9	181.2	15.3	9.1	5.7	4.5	6.2	4.5	3.4	2.3
135.4	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°
1016.0
987.1
943.5
812.7
591.2
382.3
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279.2
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227.7
205.6
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173.9
159.1
145.0
132.5
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