

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: P946382

Luminaire Tested: **GALN-SB2A-750-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2A-750-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7311 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

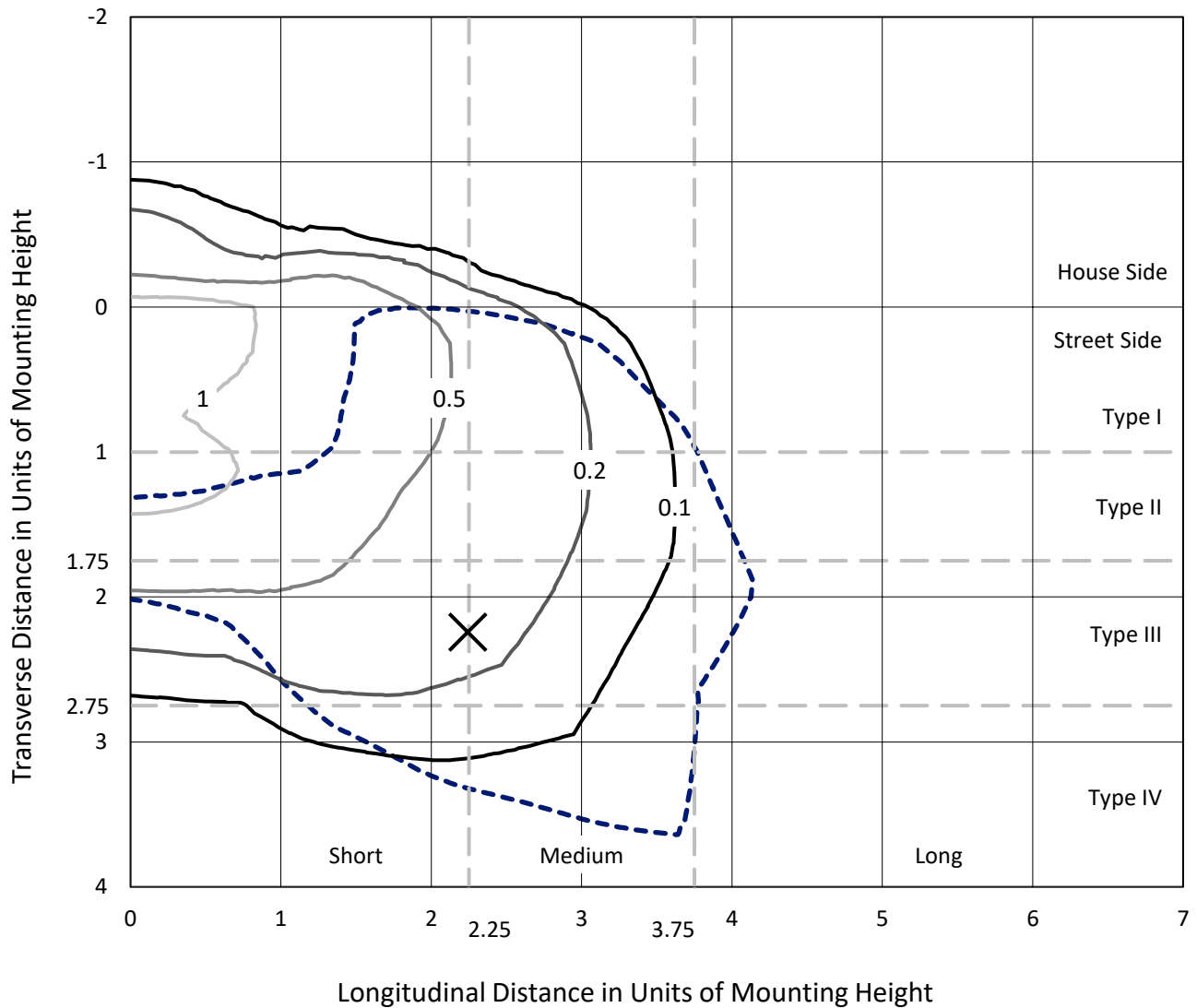
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

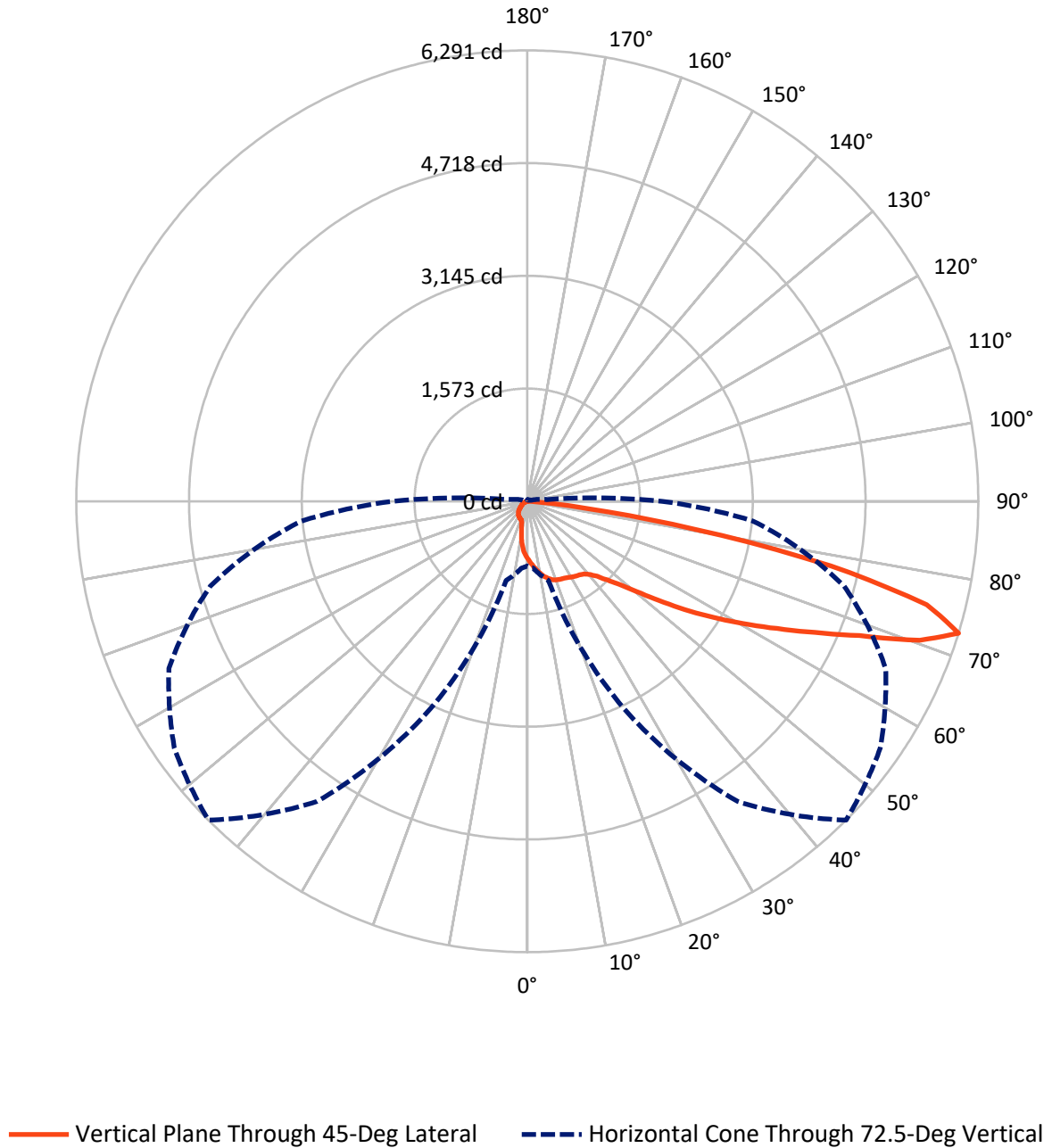
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	768.2	0.0	768.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	6542.8	0.0	6542.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	7311.0	0.0	7311.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	1.0
10°-20°	220.5	3.0
20°-30°	362.2	5.0
30°-40°	513.7	7.0
40°-50°	849.0	11.6
50°-60°	1525.2	20.9
60°-70°	2117.8	29.0
70°-80°	1536.2	21.0
80°-90°	111.1	1.5
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°	7311.0	100.0
0°-180°	7311.0	100.0

Coefficient of Utilization



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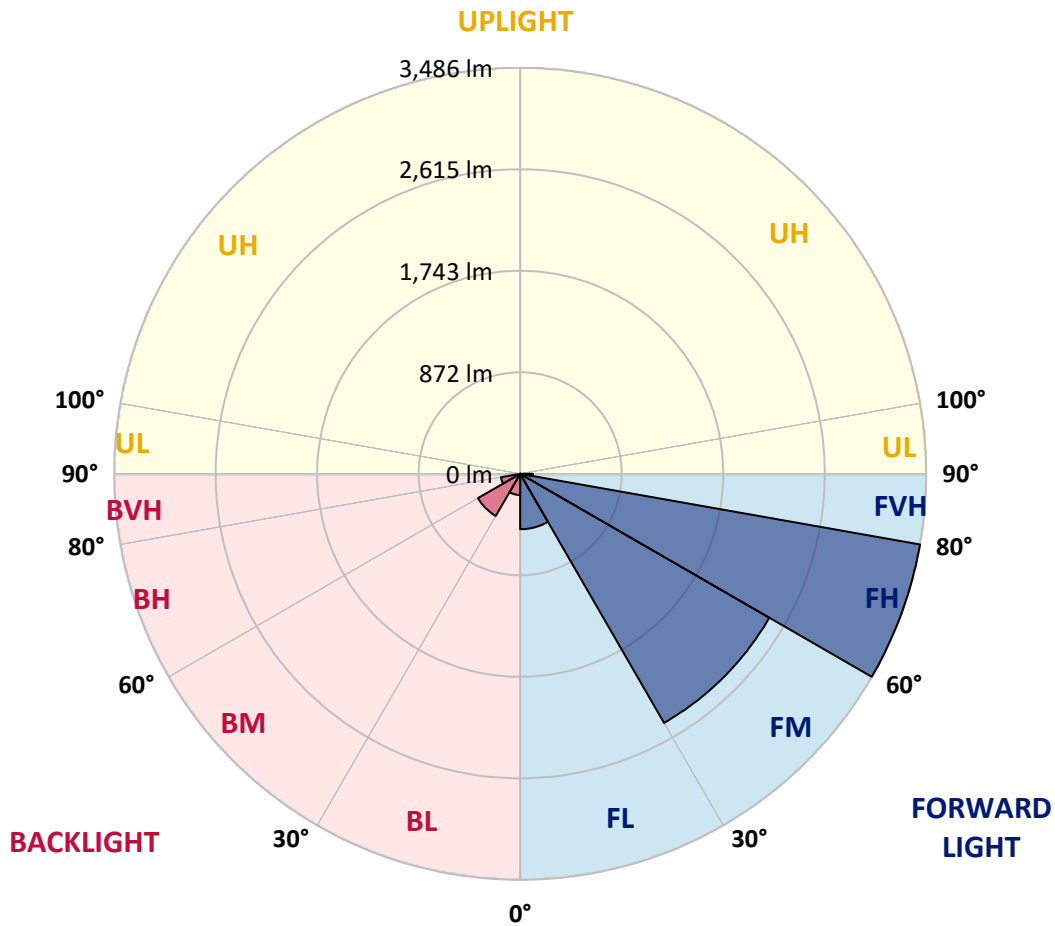
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	476.2	6.5			
FM (30°-60°)	2470.0	33.8			
FH (60°-80°)	3486.4	47.7			G2/5000
FVH (80°-90°)	110.1	1.5			G2/225
BL (0°-30°)	182.0	2.5	B1/500		
BM (30°-60°)	417.8	5.7	B1/1000		
BH (60°-80°)	167.5	2.3	B1/500		G1/500
BVH (80°-90°)	0.9	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	800.9	800.9	800.9	800.9	800.9	800.9	800.9	800.9	800.9	800.9
2.5°	874.8	876.3	875.3	869.3	859.3	853.8	850.8	840.9	834.4	822.9
5°	955.1	961.1	957.6	945.7	926.7	913.2	909.2	888.8	870.3	848.8
7.5°	1040.5	1043.5	1037.0	1021.5	996.1	973.1	969.6	941.2	911.7	878.8
10°	1114.3	1117.8	1107.8	1085.4	1056.4	1028.0	1023.0	991.6	956.6	916.2
12.5°	1176.2	1179.7	1166.7	1139.8	1107.8	1078.4	1073.4	1040.5	1002.0	957.1
15°	1223.1	1229.6	1212.1	1183.2	1148.8	1119.3	1116.8	1084.4	1047.0	997.1
17.5°	1250.6	1257.0	1240.6	1205.6	1176.2	1151.3	1148.3	1121.3	1086.4	1038.5
20°	1255.0	1261.0	1243.6	1213.1	1188.7	1168.7	1167.2	1147.8	1122.3	1076.4
22.5°	1241.6	1249.1	1233.1	1208.6	1191.7	1181.2	1179.2	1168.2	1153.7	1114.8
25°	1227.6	1233.6	1221.6	1200.2	1191.2	1190.2	1191.7	1189.7	1186.7	1153.7
27.5°	1226.6	1233.1	1219.6	1199.2	1194.2	1204.6	1206.1	1215.6	1218.1	1189.2
30°	1235.1	1239.6	1226.6	1205.1	1202.7	1226.6	1227.1	1244.1	1248.1	1219.1
32.5°	1253.6	1258.5	1245.6	1214.1	1210.6	1244.1	1245.6	1268.0	1274.5	1251.1
35°	1297.0	1303.0	1288.0	1239.1	1226.6	1260.5	1265.0	1291.5	1304.5	1285.0
37.5°	1405.3	1387.8	1367.3	1289.5	1263.0	1286.5	1294.0	1324.9	1347.9	1325.4
40°	1674.2	1619.3	1555.5	1375.3	1326.9	1341.9	1347.9	1378.8	1410.2	1388.3
42.5°	2077.9	2013.1	1910.3	1572.9	1423.2	1430.7	1435.2	1462.1	1506.6	1489.1
45°	2437.7	2414.3	2309.5	1910.3	1603.4	1566.4	1571.9	1585.9	1651.3	1644.8
47.5°	2714.2	2700.7	2619.9	2297.5	1907.8	1732.6	1748.1	1754.6	1848.9	1871.8
50°	2926.8	2921.8	2849.4	2641.8	2305.5	1977.6	1983.1	1969.2	2110.4	2167.3
52.5°	3127.4	3144.4	3091.0	2961.7	2730.2	2298.5	2297.5	2231.6	2422.3	2508.1
55°	3308.5	3314.5	3320.0	3288.1	3157.3	2663.8	2654.3	2546.5	2784.1	2872.9
57.5°	3478.7	3481.2	3530.1	3595.5	3602.0	3056.0	3038.6	2909.3	3179.3	3242.7
60°	3593.0	3604.5	3707.8	3889.4	3968.7	3460.7	3451.3	3319.5	3581.5	3610.9
62.5°	3428.3	3498.2	3758.7	4119.0	4315.1	3909.4	3904.9	3781.1	4004.7	3980.7
65°	2775.1	2893.3	3351.5	4274.2	4654.9	4410.4	4416.9	4285.1	4439.3	4361.5
67.5°	1941.2	2066.0	2607.9	4286.6	5034.7	4998.7	5036.2	4829.6	4900.9	4726.3
70°	1342.4	1406.8	1759.6	4018.2	5330.6	5809.2	5808.2	5498.3	5360.0	4892.4
72.5°	902.7	936.2	1142.8	3187.8	5113.0	6290.7	6261.8	6009.3	5514.7	4575.6
75°	380.8	405.2	529.0	1791.5	4045.1	5755.3	5676.9	5310.6	4899.9	3603.0
77.5°	120.8	131.2	208.6	641.2	2228.1	4326.1	4243.2	3316.5	3284.1	1807.5
80°	57.4	66.9	117.3	257.5	876.8	2352.9	2341.4	1504.6	1412.7	488.0
82.5°	25.0	29.4	64.9	137.7	392.2	839.4	856.3	512.0	423.7	185.1
85°	8.0	10.5	29.9	63.4	165.7	208.6	206.1	121.8	170.7	100.8
87.5°	0.0	0.0	10.0	14.5	17.0	12.0	13.5	10.5	47.4	27.9
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°
800.9	0°	800.9	800.9	800.9	800.9	800.9	800.9	800.9	800.9	800.9	800.9
810.9	2.5°	804.9	796.9	783.0	770.0	758.5	747.0	740.1	730.1	729.1	729.1
823.9	5°	810.4	797.4	772.5	746.0	715.6	686.7	657.7	629.8	620.8	614.3
844.8	7.5°	826.4	805.9	766.5	716.1	658.2	594.8	550.4	502.5	484.1	474.1
872.8	10°	849.3	821.4	761.5	673.2	579.4	493.0	429.7	377.8	357.8	349.3
903.2	12.5°	874.8	840.4	752.5	619.8	493.0	389.7	327.9	303.9	300.9	300.9
939.7	15°	905.2	863.3	737.1	556.9	402.7	308.4	286.4	287.4	290.4	292.4
975.1	17.5°	936.7	887.8	712.6	486.5	322.9	277.5	278.0	279.5	281.9	283.9
1013.5	20°	970.6	912.2	680.2	411.7	277.0	268.5	270.0	271.5	273.5	274.5
1049.5	22.5°	1007.0	935.2	641.7	338.3	261.5	261.0	261.5	263.0	265.5	265.5
1091.4	25°	1046.0	960.6	597.8	284.9	253.5	253.5	254.5	255.5	257.5	257.5
1131.8	27.5°	1085.9	984.1	551.4	257.0	246.5	246.0	246.0	247.5	248.5	249.0
1171.7	30°	1129.8	1011.5	505.0	251.0	241.0	238.5	237.0	238.0	239.0	239.5
1213.6	32.5°	1174.7	1038.0	463.6	253.5	235.5	231.0	226.1	225.1	225.1	227.1
1257.0	35°	1224.6	1066.9	431.7	262.0	232.5	220.1	212.1	207.6	208.1	211.1
1308.9	37.5°	1284.5	1101.8	408.2	269.5	230.5	207.6	194.6	189.1	185.6	189.1
1380.3	40°	1362.8	1153.2	391.2	275.5	228.1	193.1	175.7	166.7	160.2	162.2
1491.1	42.5°	1478.1	1234.1	384.7	276.0	222.6	176.2	156.2	144.2	134.7	135.2
1657.8	45°	1639.8	1361.8	418.2	269.5	210.6	157.7	135.7	119.8	113.8	112.3
1906.8	47.5°	1861.4	1548.0	495.5	256.0	193.1	139.7	115.8	102.3	97.8	95.3
2233.6	50°	2158.3	1787.0	581.4	241.0	175.7	122.8	99.3	90.8	87.8	85.3
2621.4	52.5°	2502.6	2029.5	651.7	226.1	158.2	107.8	88.8	83.8	81.3	79.3
2995.6	55°	2818.5	2196.7	647.7	210.1	141.2	95.8	81.3	78.3	75.4	73.4
3318.0	57.5°	3015.1	2220.2	534.0	192.6	121.8	86.3	74.4	72.4	68.9	66.4
3597.0	60°	3105.4	2086.4	374.3	169.7	102.3	77.3	66.9	65.9	61.4	57.9
3861.0	62.5°	3121.9	1837.9	249.5	141.2	85.3	68.9	59.4	57.9	51.9	45.9
4075.5	65°	3055.0	1482.6	172.7	110.3	72.9	59.9	50.9	47.9	41.4	35.4
4126.4	67.5°	2843.4	1041.0	120.3	79.3	61.9	47.4	40.4	39.4	34.4	29.4
3866.9	70°	2455.7	593.3	80.3	59.4	48.9	32.4	31.9	32.9	27.9	24.0
3159.3	72.5°	1882.8	271.5	49.9	43.4	33.4	22.0	25.5	25.9	21.5	18.0
1971.1	75°	1108.3	116.3	31.4	27.9	17.0	14.5	18.5	19.0	14.5	11.5
720.6	77.5°	377.3	43.9	20.0	16.5	8.5	8.0	12.0	12.0	8.0	4.5
144.7	80°	85.8	16.5	10.0	6.5	4.0	3.5	4.0	3.5	2.0	0.5
44.4	82.5°	24.5	6.5	4.0	2.5	1.5	1.5	0.5	0.0	0.0	0.0
15.5	85°	7.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
5.5	87.5°	3.0	0.5	0.0	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

<u>180°</u>
800.9
731.6
617.3
475.6
349.3
300.9
292.4
283.9
275.0
266.5
258.0
249.5
240.5
228.6
212.6
188.1
161.2
133.2
110.3
93.8
84.8
78.8
72.4
65.9
56.9
42.9
33.4
27.9
22.0
16.0
10.0
3.5
0.0
0.0
0.0
0.0
0.0

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