

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: P939444

Luminaire Tested: **GALN-SB2A-750-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939444
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-750-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 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: 6930 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

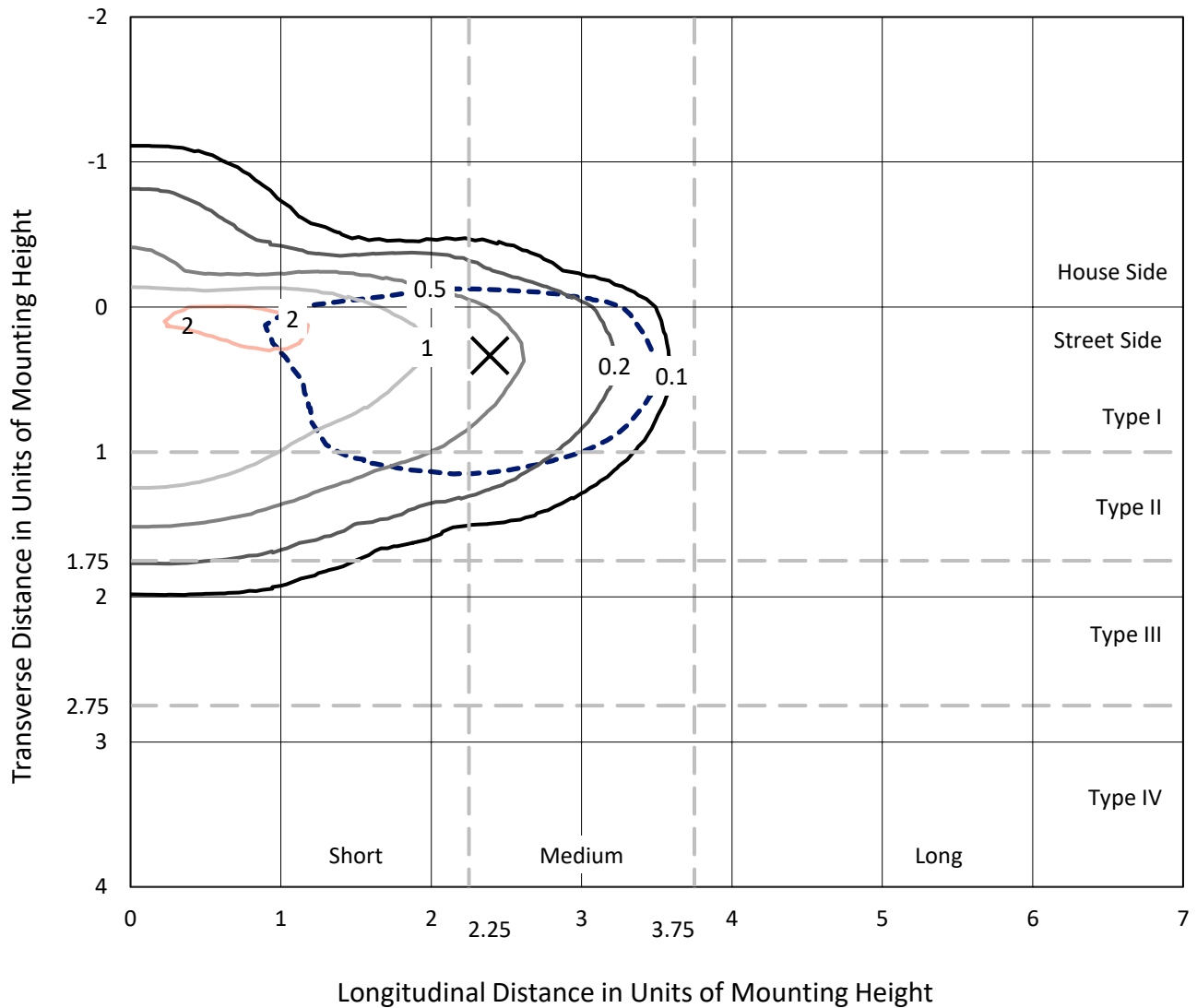
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

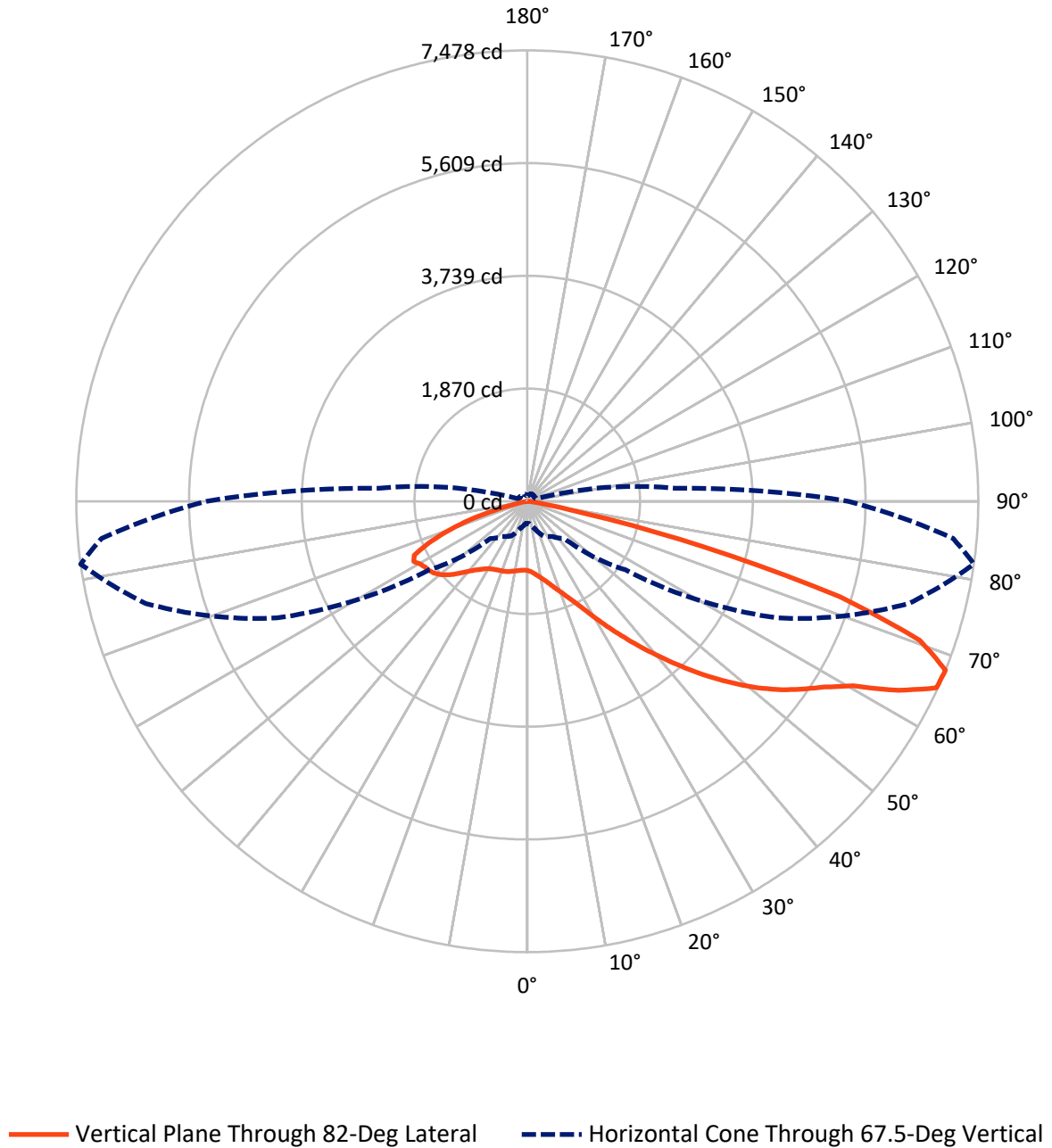
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1255.3	0.0	1255.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5674.7	0.0	5674.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	6930.0	0.0	6930.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	1.5
10°-20°	265.8	3.8
20°-30°	425.7	6.1
30°-40°	752.8	10.9
40°-50°	1319.0	19.0
50°-60°	1759.2	25.4
60°-70°	1637.7	23.6
70°-80°	628.5	9.1
80°-90°	39.0	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°	6930.0	100.0
0°-180°	6930.0	100.0

Coefficient of Utilization



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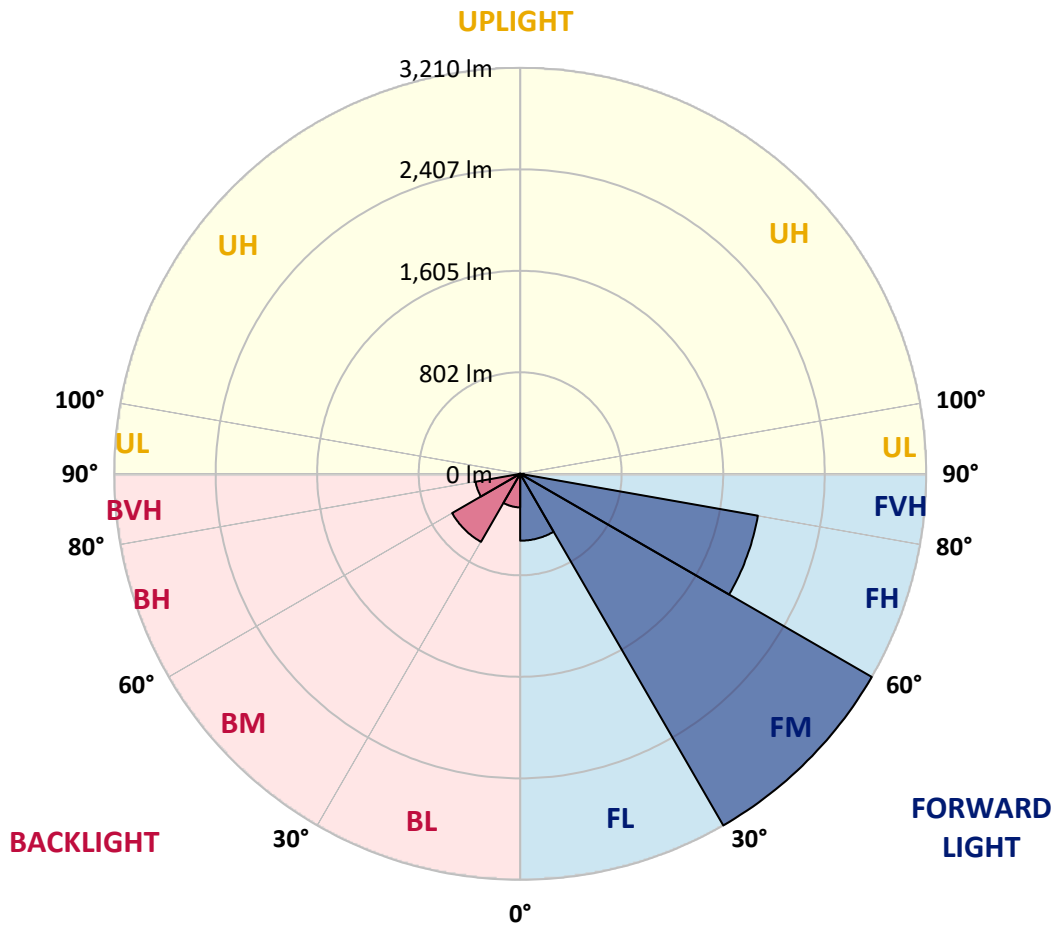
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	528.7	7.6			
FM (30°-60°)	3209.7	46.3			
FH (60°-80°)	1907.9	27.5			G2/5000
FVH (80°-90°)	28.4	0.4			G1/100
BL (0°-30°)	265.1	3.8	B1/500		
BM (30°-60°)	621.2	9.0	B1/1000		
BH (60°-80°)	358.3	5.2	B1/500		G1/500
BVH (80°-90°)	10.7	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°	1148.1	1148.1	1148.1	1148.1	1148.1	1148.1	1148.1	1148.1	1148.1	1148.1
2.5°	1213.4	1220.4	1216.4	1214.4	1210.9	1205.9	1202.0	1189.5	1176.5	1168.0
5°	1237.9	1244.9	1244.4	1246.4	1248.9	1250.3	1249.4	1235.4	1216.9	1202.5
7.5°	1216.9	1224.9	1231.4	1241.4	1258.8	1277.3	1286.3	1283.3	1264.3	1244.4
10°	1157.5	1166.0	1181.5	1204.9	1241.9	1281.8	1315.2	1330.7	1318.7	1296.8
12.5°	1048.8	1057.3	1087.7	1138.6	1200.5	1269.8	1333.7	1375.1	1378.1	1356.1
15°	926.5	935.0	967.4	1031.3	1125.6	1236.9	1343.7	1422.0	1448.4	1429.5
17.5°	850.7	858.2	882.6	934.0	1032.3	1171.0	1340.2	1471.9	1532.3	1517.3
20°	827.7	834.2	845.7	881.6	963.5	1102.7	1317.2	1518.8	1622.6	1614.1
22.5°	852.2	858.2	861.7	877.6	929.0	1057.8	1288.3	1566.7	1727.3	1728.3
25°	908.6	914.6	910.6	920.5	943.0	1043.8	1277.3	1623.1	1859.1	1870.0
27.5°	1001.4	1001.9	992.4	991.9	995.4	1064.7	1288.8	1683.4	2025.2	2045.7
30°	1187.5	1180.0	1143.6	1104.2	1086.2	1127.6	1320.7	1754.8	2221.3	2257.7
32.5°	1474.4	1463.4	1396.5	1302.2	1207.4	1228.9	1378.1	1836.1	2434.8	2500.7
35°	1785.7	1782.7	1712.9	1572.7	1407.0	1373.1	1471.4	1942.9	2667.8	2772.6
37.5°	2075.1	2073.6	2033.7	1868.5	1667.0	1574.2	1621.1	2082.6	2917.3	3069.0
40°	2339.5	2344.0	2304.1	2156.4	1953.4	1832.1	1824.6	2255.2	3194.7	3391.8
42.5°	2568.1	2573.0	2532.6	2423.4	2236.3	2117.5	2074.6	2466.8	3465.7	3738.6
45°	2723.2	2754.2	2748.2	2660.9	2526.6	2403.4	2375.0	2732.2	3774.5	4106.3
47.5°	2767.1	2795.6	2840.5	2852.5	2770.6	2649.4	2683.3	3052.0	4086.8	4474.5
50°	2658.9	2685.3	2778.6	2902.8	2959.7	2922.3	2983.2	3394.8	4406.7	4841.7
52.5°	2445.3	2472.3	2590.0	2786.6	3018.6	3136.4	3284.0	3732.6	4716.5	5189.5
55°	2136.5	2164.9	2316.1	2538.6	2906.3	3224.7	3535.0	4069.9	5000.4	5502.3
57.5°	1716.4	1737.3	1894.5	2205.8	2623.9	3136.9	3720.1	4438.1	5267.8	5809.7
60°	1118.6	1137.1	1319.7	1667.0	2155.9	2843.5	3757.0	4848.7	5623.1	6209.3
62.5°	743.9	756.4	864.7	1119.6	1518.3	2280.2	3541.0	5176.5	6144.0	6904.9
65°	510.4	522.9	631.2	808.8	980.9	1508.3	2919.8	5133.1	6616.0	7457.2
67.5°	364.2	374.7	466.5	634.2	710.0	876.1	1979.3	4578.3	6548.1	7478.1
70°	260.9	266.9	342.8	494.0	564.3	526.4	1100.7	3501.6	5733.3	6905.4
72.5°	182.6	184.6	238.0	376.2	454.5	384.2	523.9	2334.6	4336.3	5420.0
75°	123.7	126.2	160.2	275.9	364.7	293.4	277.4	1251.8	2545.6	3000.1
77.5°	75.8	76.8	103.3	188.6	272.9	223.5	178.6	530.4	984.9	967.0
80°	42.9	42.9	65.9	117.3	186.1	144.2	125.2	225.5	311.8	273.9
82.5°	23.9	24.4	47.9	72.8	123.2	85.3	68.9	104.3	134.7	119.2
85°	10.0	11.0	29.4	34.4	58.9	42.4	27.9	43.9	49.9	44.4
87.5°	1.0	1.5	9.0	6.5	7.0	8.5	4.0	8.5	7.0	7.0
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°
1148.1	0°	1148.1	1148.1	1148.1	1148.1	1148.1	1148.1	1148.1	1148.1	1148.1	1148.1
1165.0	2.5°	1155.6	1148.1	1129.1	1107.2	1078.2	1064.2	1045.3	1032.3	1021.3	1022.3
1194.0	5°	1178.0	1159.0	1116.6	1063.7	997.9	951.0	901.1	866.7	838.7	832.7
1233.9	7.5°	1208.9	1179.0	1104.7	1009.4	898.1	813.8	738.4	690.0	655.6	644.6
1282.3	10°	1248.9	1205.4	1089.2	941.0	780.8	673.6	592.7	554.8	531.4	523.4
1339.2	12.5°	1295.3	1235.9	1068.7	857.7	660.1	556.8	505.4	486.5	479.0	476.5
1409.0	15°	1353.6	1273.8	1037.8	758.9	557.8	485.5	463.5	461.0	462.0	461.0
1492.8	17.5°	1423.0	1315.2	987.4	657.1	489.0	449.0	441.1	443.1	445.6	445.1
1586.6	20°	1498.8	1356.1	923.0	566.8	442.1	423.1	418.6	420.6	422.6	421.6
1694.9	22.5°	1585.1	1400.0	851.7	496.4	410.6	399.2	394.2	394.7	394.7	392.7
1832.1	25°	1688.4	1448.4	776.9	446.6	386.7	377.7	371.7	369.7	366.7	360.7
1998.8	27.5°	1811.7	1499.8	705.0	411.6	367.7	359.2	352.3	347.3	339.8	329.8
2198.8	30°	1950.4	1562.2	644.1	389.7	352.8	344.3	336.3	328.8	317.8	305.4
2428.9	32.5°	2113.5	1629.0	599.7	375.2	339.3	330.3	320.8	311.8	299.9	287.4
2687.3	35°	2308.1	1709.9	573.8	365.2	328.8	316.8	306.4	296.4	287.4	276.4
2968.2	37.5°	2519.2	1795.7	565.8	360.2	321.8	303.4	291.4	284.4	283.4	276.9
3272.1	40°	2750.2	1897.5	571.8	357.2	314.3	290.4	277.4	275.9	278.4	266.9
3596.9	42.5°	2994.7	2018.2	581.8	353.8	303.9	277.4	264.9	264.9	262.9	247.0
3940.1	45°	3259.1	2157.4	591.7	345.3	291.4	264.4	255.0	251.5	243.0	227.5
4285.4	47.5°	3525.5	2299.1	599.2	329.8	276.4	253.5	245.0	237.0	224.5	210.6
4624.2	50°	3778.5	2426.4	591.2	306.8	259.5	243.0	234.0	223.0	209.6	200.1
4945.0	52.5°	4004.5	2536.6	557.3	279.9	241.5	232.0	224.0	212.5	201.6	191.6
5234.4	55°	4201.1	2625.9	497.4	254.5	225.5	222.5	214.5	200.1	185.1	176.6
5521.3	57.5°	4389.7	2693.8	422.6	233.5	211.1	212.1	200.1	187.1	173.1	164.2
5908.0	60°	4640.7	2784.6	346.8	214.0	195.6	198.6	185.6	176.1	158.7	147.2
6571.1	62.5°	5041.8	2925.8	275.4	190.1	177.6	178.6	173.1	161.7	140.7	127.2
7062.5	65°	5360.1	2873.9	217.0	164.2	157.2	158.7	158.7	146.2	123.7	108.3
7089.0	67.5°	5324.2	2460.8	173.1	138.7	137.7	138.7	142.2	131.7	109.8	97.3
6549.1	70°	4904.6	1957.4	138.7	115.3	119.7	117.3	127.2	120.2	98.8	86.3
5077.2	72.5°	4002.0	1410.0	105.8	95.3	91.8	95.8	114.8	108.3	82.3	68.4
2689.3	75°	2338.5	752.4	78.8	75.3	66.4	79.8	101.8	92.3	62.9	50.4
824.3	77.5°	761.4	262.4	57.9	55.4	49.4	64.4	86.8	77.8	51.4	39.9
241.5	80°	204.1	79.3	39.4	36.4	31.9	47.9	68.9	61.9	36.9	25.9
103.8	82.5°	81.8	33.4	23.0	20.5	17.5	32.9	54.4	49.9	27.4	16.5
32.4	85°	26.4	11.0	8.5	6.5	8.0	20.5	32.4	33.9	19.5	8.5
5.0	87.5°	3.5	1.5	1.5	2.0	1.5	3.5	10.0	9.5	5.5	1.0
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>
1148.1
1012.4
819.3
633.7
517.4
475.0
460.5
444.1
421.1
391.7
359.7
328.8
304.4
287.9
275.4
276.4
267.4
247.0
227.0
210.1
198.6
190.6
175.6
163.2
145.7
126.2
106.8
95.3
84.8
66.9
48.9
38.4
25.4
16.5
6.5
0.0
0.0

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