

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: P944949

Luminaire Tested: **GALN-SB1A-750-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-750-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4835 lumens
Efficiency: N/A
Efficacy: 156.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

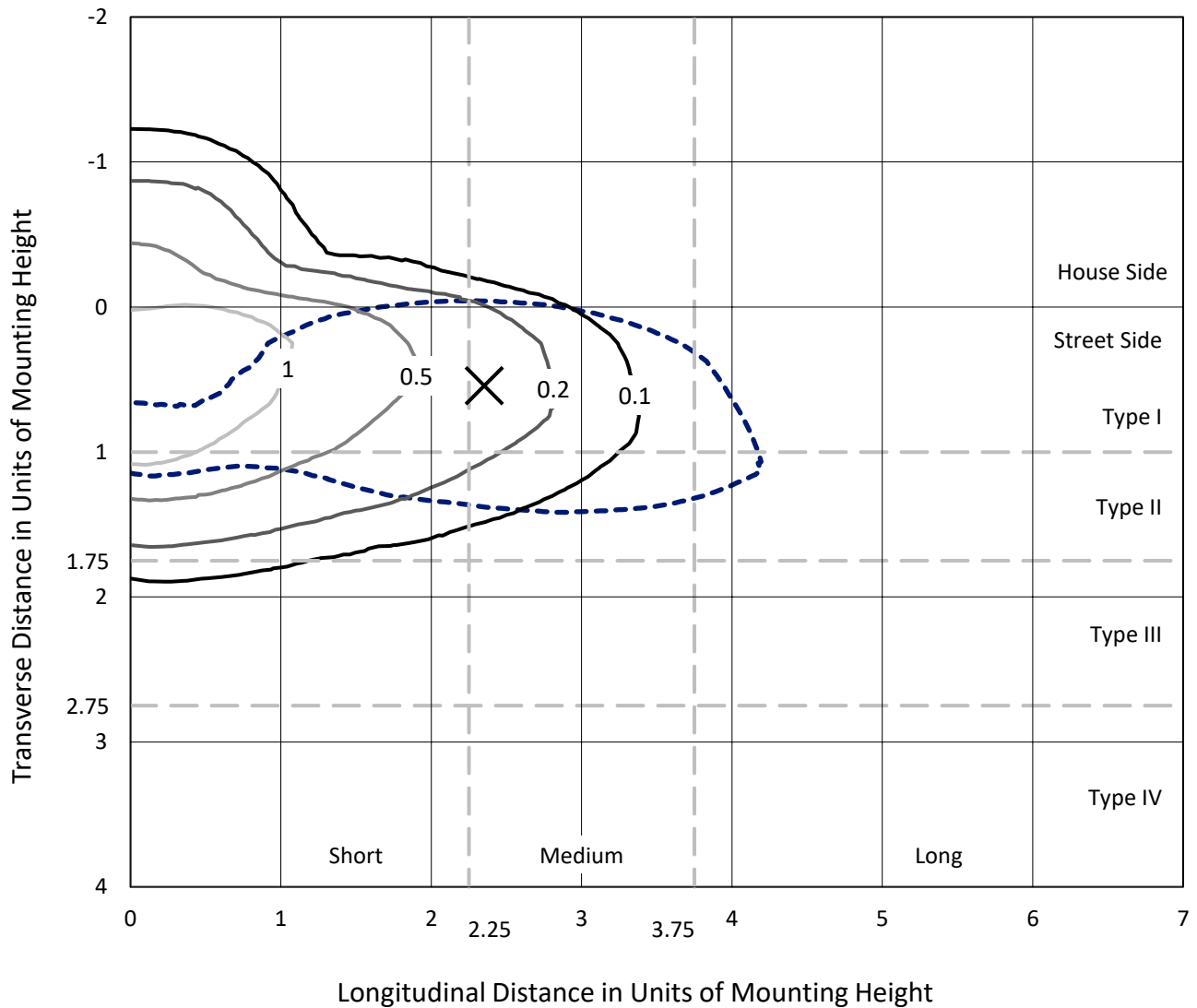
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

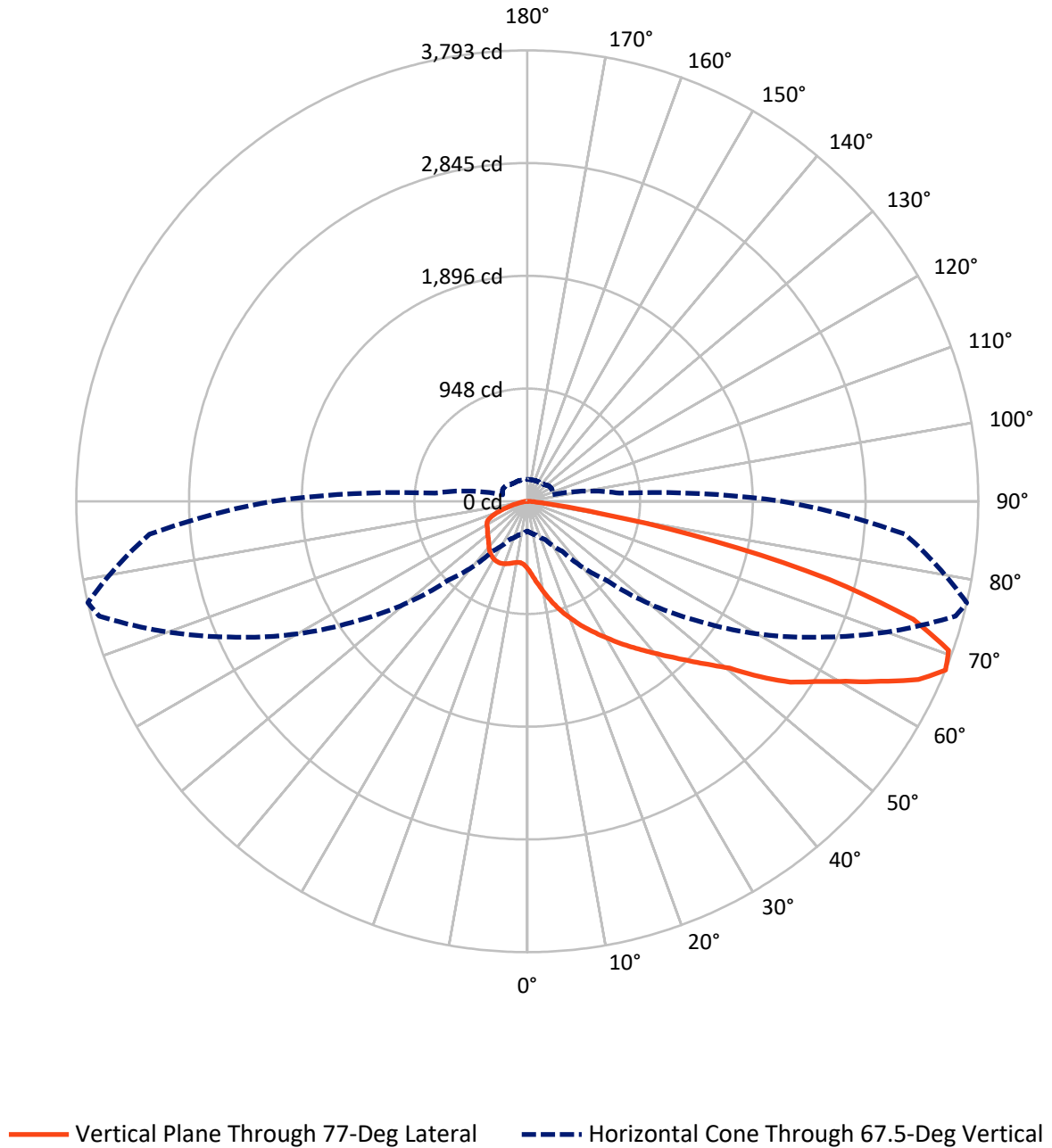
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	914.6	0.0	914.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	3920.4	0.0	3920.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	4835.0	0.0	4835.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	1.3
10°-20°	218.5	4.5
20°-30°	412.5	8.5
30°-40°	664.5	13.7
40°-50°	908.9	18.8
50°-60°	1025.2	21.2
60°-70°	956.9	19.8
70°-80°	524.5	10.8
80°-90°	63.3	1.3
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°	4835.0	100.0
0°-180°	4835.0	100.0

Coefficient of Utilization



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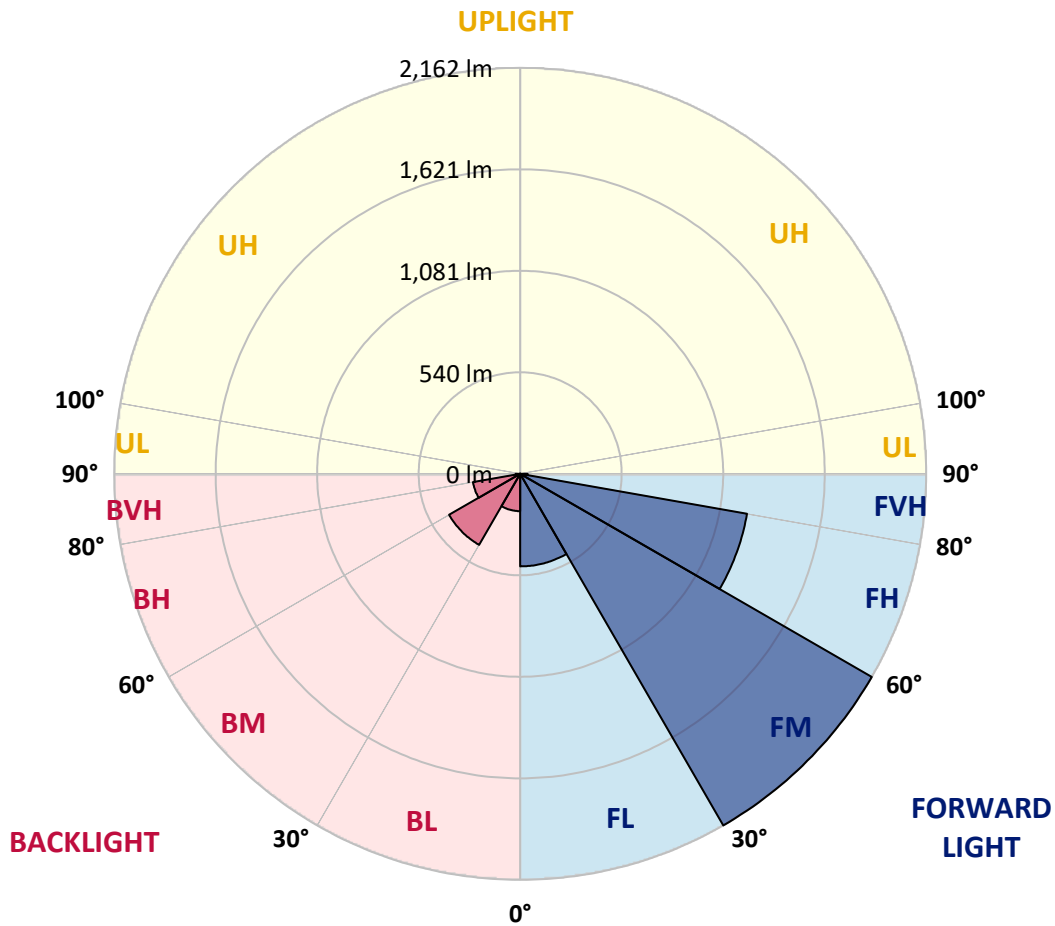
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	492.9	10.2			
FM (30°-60°)	2161.7	44.7			
FH (60°-80°)	1226.3	25.4			G1/1800
FVH (80°-90°)	39.6	0.8			G1/100
BL (0°-30°)	198.9	4.1	B1/500		
BM (30°-60°)	436.9	9.0	B1/1000		
BH (60°-80°)	255.2	5.3	B1/500		G1/500
BVH (80°-90°)	23.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3
2.5°	710.3	715.3	709.1	709.1	688.1	677.1	656.1	640.2	611.5	606.5
5°	839.6	845.8	837.1	833.3	808.6	785.9	750.7	716.0	664.9	659.6
7.5°	939.7	947.7	939.9	935.9	914.0	888.5	847.3	798.9	726.8	716.5
10°	1021.3	1022.5	1020.0	1021.5	1004.3	983.3	941.2	884.8	794.7	780.7
12.5°	1067.5	1073.2	1078.2	1087.2	1084.2	1071.2	1033.3	965.9	866.5	848.6
15°	1089.2	1099.2	1110.4	1131.1	1147.8	1151.1	1122.1	1053.0	939.7	918.0
17.5°	1096.9	1106.4	1124.1	1154.1	1190.0	1214.2	1201.2	1137.6	1012.0	987.1
20°	1136.1	1138.8	1149.6	1178.0	1217.0	1257.1	1266.9	1218.9	1083.7	1055.5
22.5°	1219.9	1214.5	1217.5	1230.4	1258.4	1297.3	1319.5	1290.8	1157.3	1124.9
25°	1358.5	1342.5	1326.5	1311.5	1325.8	1347.7	1372.9	1362.7	1234.4	1193.2
27.5°	1533.4	1514.0	1478.8	1429.6	1412.4	1420.1	1431.3	1429.3	1305.8	1264.1
30°	1705.6	1682.9	1641.0	1569.9	1524.4	1504.0	1495.5	1489.7	1383.4	1339.0
32.5°	1843.1	1825.2	1784.0	1704.4	1638.5	1603.6	1575.3	1554.9	1464.5	1420.1
35°	1963.4	1946.7	1899.6	1812.7	1741.1	1703.9	1666.9	1623.3	1548.9	1504.0
37.5°	2073.3	2056.5	1991.9	1901.6	1829.4	1803.7	1770.8	1696.6	1633.5	1591.1
40°	2142.6	2138.9	2078.5	1976.2	1901.3	1888.6	1877.6	1781.8	1727.3	1687.9
42.5°	2160.4	2168.6	2120.7	2036.6	1965.2	1955.0	1980.7	1878.1	1832.7	1795.0
45°	2117.7	2141.4	2110.0	2052.8	2010.6	2005.1	2072.0	1983.4	1949.2	1914.8
47.5°	2009.6	2049.8	2036.8	2028.8	2022.8	2046.6	2152.4	2095.2	2081.2	2051.3
50°	1791.5	1867.6	1890.3	1940.7	1998.6	2078.8	2225.5	2217.3	2235.5	2205.3
52.5°	1414.4	1519.2	1651.0	1777.3	1924.3	2068.0	2305.9	2392.5	2469.3	2452.9
55°	1167.5	1214.7	1316.0	1547.6	1780.0	2022.8	2342.1	2534.0	2701.5	2686.7
57.5°	977.9	1020.0	1082.4	1275.9	1561.9	1920.3	2364.5	2620.3	2860.4	2858.9
60°	774.4	819.1	883.0	1020.0	1307.1	1743.1	2359.5	2718.7	3063.3	3075.8
62.5°	544.8	594.0	664.9	792.7	1046.7	1513.5	2257.7	2789.8	3302.2	3336.1
65°	358.1	390.6	444.0	554.3	779.9	1218.2	2063.3	2799.0	3557.8	3615.2
67.5°	251.1	263.6	295.0	354.9	514.1	934.2	1753.6	2703.5	3728.2	3792.9
70°	195.9	202.2	218.1	242.1	323.0	628.2	1343.7	2454.9	3691.8	3759.2
72.5°	169.2	175.2	181.2	184.2	216.6	387.8	910.2	2052.5	3348.6	3394.3
75°	153.5	155.0	160.0	159.0	165.2	251.6	525.4	1495.5	2642.1	2626.3
77.5°	129.0	131.0	139.3	138.0	146.8	172.0	272.8	965.1	1712.9	1606.0
80°	109.3	110.3	119.3	117.8	127.5	124.5	139.3	491.9	726.5	615.5
82.5°	37.9	46.9	91.1	93.8	97.3	75.4	80.4	200.7	221.9	170.0
85°	18.5	19.7	46.4	65.9	65.6	37.9	39.2	71.6	69.9	54.9
87.5°	3.0	3.7	5.5	25.7	20.5	10.0	13.5	14.0	14.5	12.5
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°
567.3	0°	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3
587.5	2.5°	573.5	561.1	534.9	510.6	491.7	473.5	463.2	454.5	449.5	448.5
615.0	5°	589.0	563.3	515.6	475.5	449.2	429.8	419.5	413.1	409.8	407.8
651.9	7.5°	611.2	573.5	505.6	460.0	432.5	418.5	413.3	412.3	412.1	412.3
696.6	10°	641.9	590.3	504.7	456.2	433.3	425.5	425.3	425.5	426.5	426.8
745.2	12.5°	675.1	607.5	508.6	459.5	442.8	438.5	437.8	437.5	438.3	438.8
794.4	15°	711.3	630.2	515.4	466.5	453.2	448.7	448.0	446.5	446.2	446.0
846.1	17.5°	748.5	652.7	522.9	474.0	460.0	453.7	451.0	447.5	444.8	444.0
899.5	20°	786.2	674.9	528.1	477.7	460.5	451.7	446.2	440.3	435.5	432.8
953.4	22.5°	826.4	698.1	531.4	476.7	456.0	444.0	434.0	427.0	419.8	415.1
1007.8	25°	865.5	718.3	531.1	471.5	447.2	432.0	419.3	410.3	400.3	395.3
1064.0	27.5°	903.2	736.5	524.9	462.2	434.8	417.8	402.6	391.8	382.1	377.4
1120.6	30°	942.2	751.7	515.1	448.7	420.0	401.3	384.6	375.4	366.6	362.1
1180.5	32.5°	980.9	765.7	501.4	432.0	403.1	385.1	368.6	360.1	354.9	354.9
1244.9	35°	1021.8	775.4	483.2	412.6	385.1	367.9	354.9	349.9	349.4	346.4
1313.0	37.5°	1065.0	781.7	461.0	392.6	367.4	351.2	347.2	341.2	336.2	329.7
1387.9	40°	1110.4	787.9	434.3	371.9	348.7	339.7	337.9	329.9	315.7	299.7
1472.8	42.5°	1165.5	792.2	406.6	351.2	328.9	326.0	328.4	314.7	292.0	280.0
1575.1	45°	1229.4	799.2	381.1	330.7	308.7	308.7	319.2	301.2	282.5	275.0
1691.9	47.5°	1312.3	815.4	357.4	308.2	290.0	295.0	298.7	285.0	274.5	265.3
1834.2	50°	1432.1	854.3	332.9	285.5	275.8	285.8	280.5	272.5	260.3	252.8
2060.3	52.5°	1580.8	877.3	311.2	265.1	263.6	273.5	266.1	258.6	249.3	239.3
2231.7	55°	1682.2	881.5	293.0	250.1	255.3	254.3	251.6	244.8	239.8	226.6
2401.0	57.5°	1795.5	890.0	278.0	241.1	250.1	239.1	238.1	232.4	225.9	216.9
2607.4	60°	1931.0	903.2	265.1	237.6	245.6	229.1	224.1	221.9	215.4	210.9
2855.7	62.5°	2078.8	915.2	251.8	238.1	240.3	219.4	211.9	211.1	207.2	205.7
3088.8	65°	2179.6	882.5	235.4	237.6	232.1	209.4	199.9	199.7	196.4	195.9
3189.9	67.5°	2144.4	778.9	213.1	230.6	223.6	199.4	188.9	187.9	183.7	183.9
3084.3	70°	1968.2	631.2	182.4	213.4	213.1	190.4	177.5	174.2	168.5	169.5
2681.7	72.5°	1637.7	467.7	141.3	184.7	196.4	182.2	164.2	159.0	151.7	152.7
1979.7	75°	1182.8	318.0	102.8	140.5	171.0	172.5	151.2	142.3	133.5	135.0
1101.9	77.5°	605.2	180.2	75.6	96.8	134.3	156.7	139.5	127.5	125.5	139.5
317.7	80°	197.4	90.3	52.4	67.9	88.1	128.3	122.3	108.6	108.1	111.3
66.6	82.5°	58.9	38.2	33.7	44.7	48.7	98.3	105.6	82.1	70.6	74.4
22.2	85°	20.2	18.5	19.2	22.2	23.2	57.7	73.9	54.4	51.4	56.7
5.0	87.5°	4.7	6.5	5.5	5.0	5.0	14.0	28.7	22.7	31.4	21.0
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>
567.3
448.5
407.6
413.1
427.0
439.0
445.8
444.8
433.8
415.3
395.3
377.1
361.9
355.2
345.7
328.7
297.5
280.3
276.3
265.1
252.1
237.4
226.9
213.9
212.1
205.7
195.7
183.9
170.5
152.5
135.5
137.5
95.6
76.9
55.9
20.2
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