

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: P940148

Luminaire Tested: **GALN-SB3A-827-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940148  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3A-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

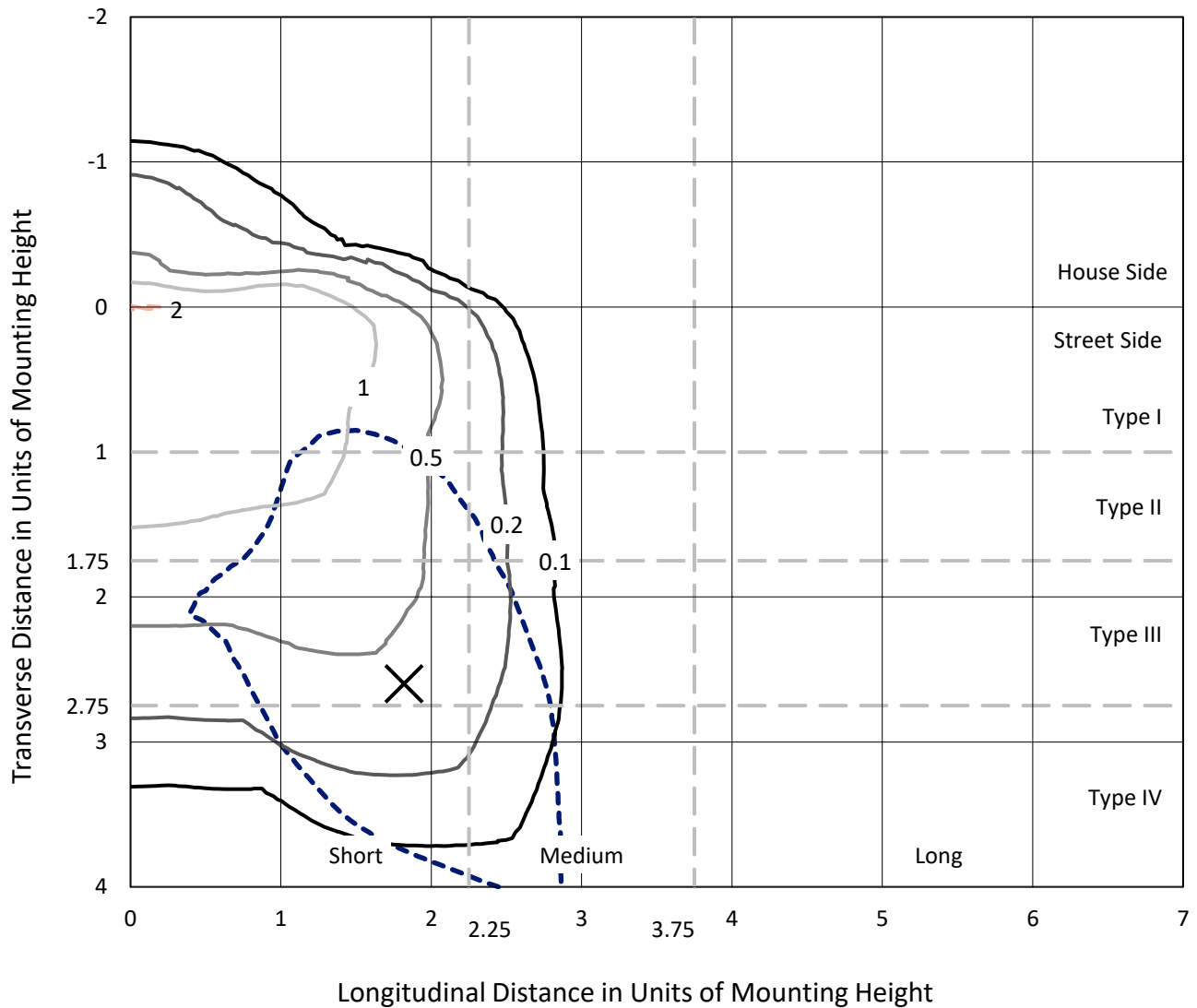
Lumens per Lamp: N/A  
Luminaire Lumens: 8861 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

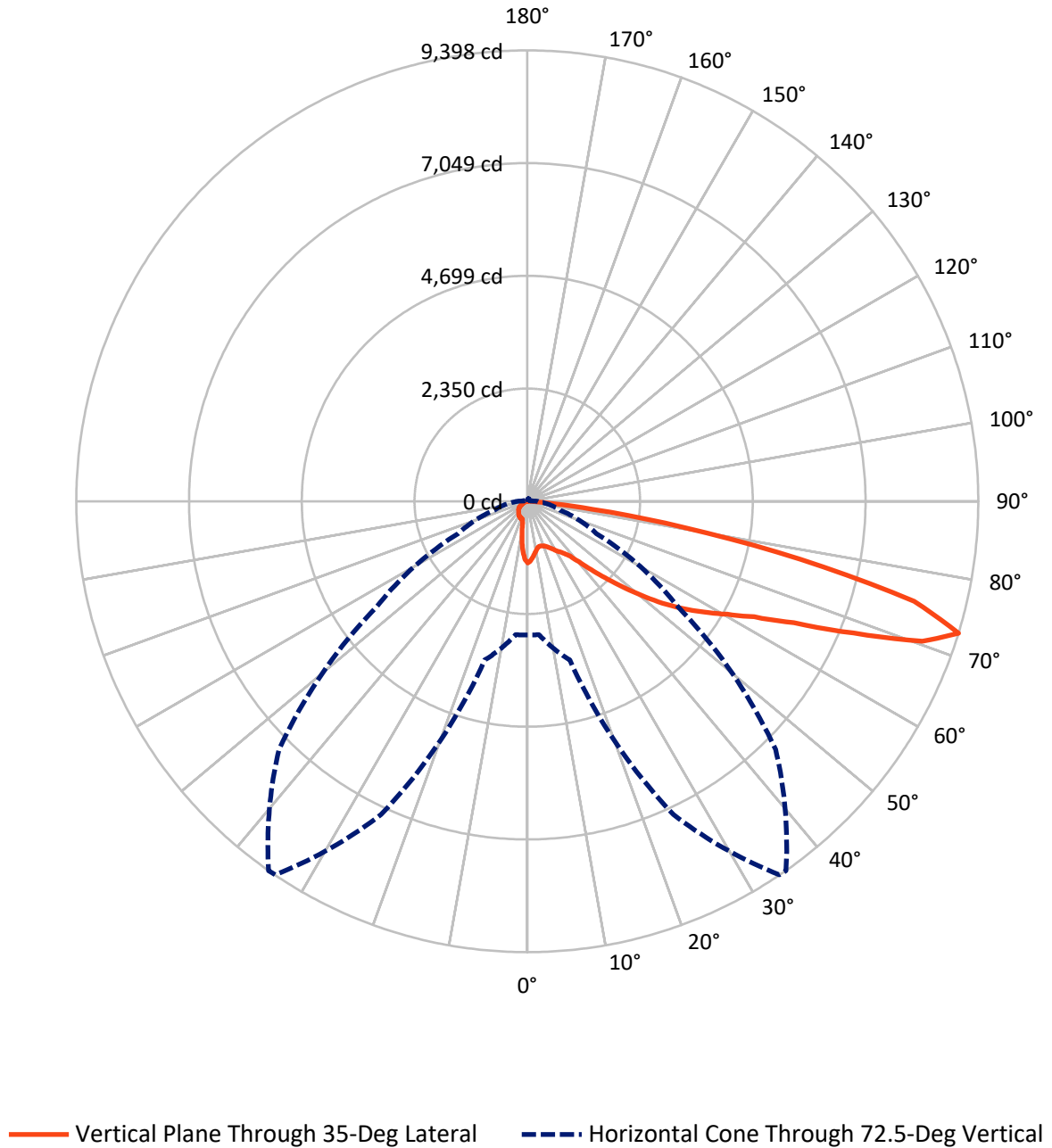
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	997.3	0.0	997.3
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	7863.7	0.0	7863.7
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	8861.0	0.0	8861.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.5	1.2
10°-20°	246.9	2.8
20°-30°	401.0	4.5
30°-40°	669.1	7.6
40°-50°	1266.0	14.3
50°-60°	2011.7	22.7
60°-70°	2488.6	28.1
70°-80°	1547.0	17.5
80°-90°	125.0	1.4
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°	8861.0	100.0
0°-180°	8861.0	100.0

**Coefficient of Utilization**



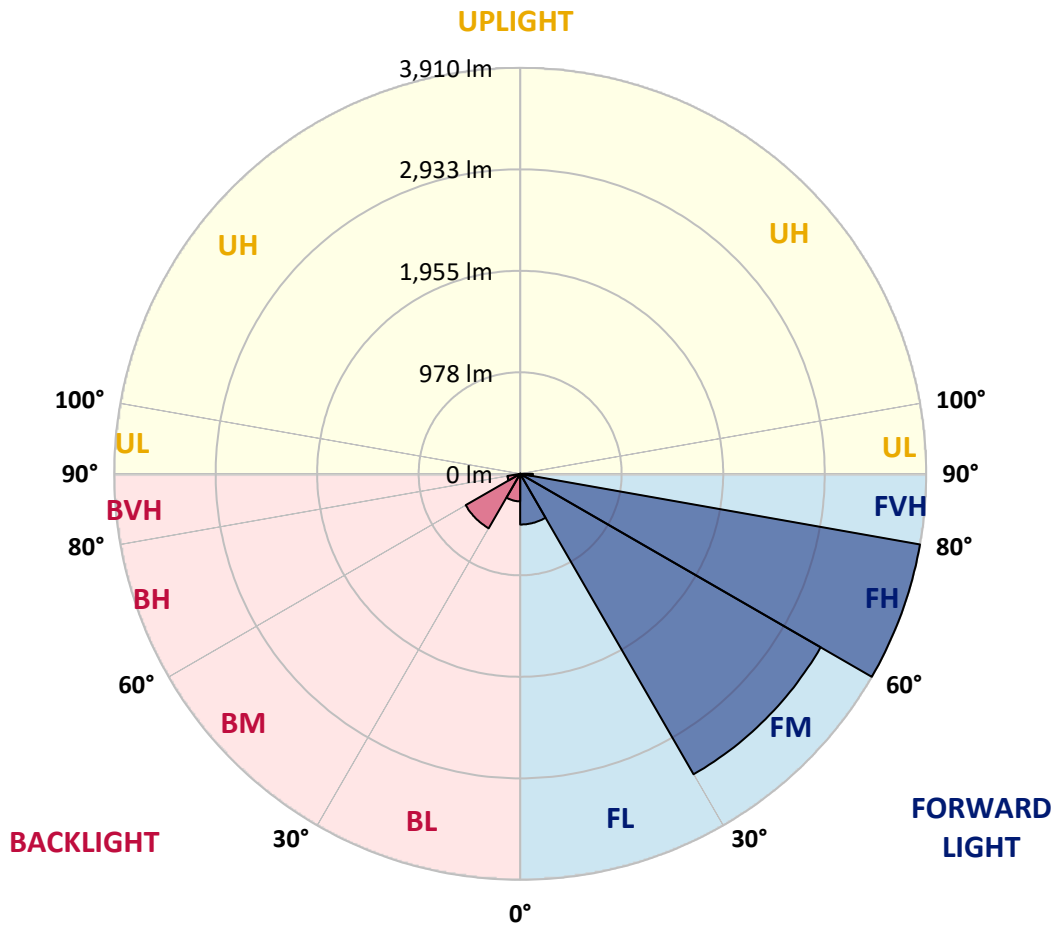
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	488.5	5.5			
FM (30°-60°)	3341.5	37.7			
FH (60°-80°)	3910.5	44.1			G2/5000
FVH (80°-90°)	123.3	1.4			G2/225
BL (0°-30°)	265.0	3.0	B1/500		
BM (30°-60°)	605.4	6.8	B1/1000		
BH (60°-80°)	125.1	1.4	B1/500		G1/500
BVH (80°-90°)	1.7	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°	34°	35°	45°	55°	65°	75°
0°	1284.3	1284.3	1284.3	1284.3	1284.3	1284.3	1284.3	1284.3	1284.3	1284.3
2.5°	1227.1	1237.5	1239.5	1242.7	1242.7	1246.6	1253.1	1262.2	1277.1	1284.9
5°	1131.0	1138.8	1148.6	1156.3	1171.3	1173.2	1198.6	1223.2	1257.6	1283.6
7.5°	1034.3	1043.4	1056.4	1075.2	1094.7	1100.5	1138.8	1180.4	1234.9	1283.6
10°	966.1	966.8	978.4	997.3	1028.4	1035.6	1082.3	1141.4	1209.6	1275.8
12.5°	927.8	932.4	937.5	951.8	981.7	986.2	1036.2	1105.7	1184.3	1271.3
15°	927.8	931.1	934.3	941.4	965.5	969.4	1013.5	1083.0	1171.3	1273.2
17.5°	937.5	942.7	940.1	948.6	973.9	976.5	1015.5	1076.5	1170.6	1285.6
20°	960.9	964.8	959.6	964.8	990.1	995.3	1035.6	1088.8	1181.7	1307.0
22.5°	997.9	999.9	987.5	991.4	1017.4	1023.9	1070.6	1123.9	1208.3	1341.4
25°	1044.7	1048.6	1029.7	1034.3	1059.0	1066.8	1120.6	1176.5	1250.5	1388.8
27.5°	1098.6	1100.5	1084.3	1083.6	1115.4	1126.5	1181.0	1241.4	1307.0	1448.5
30°	1160.2	1166.1	1150.5	1147.9	1188.2	1197.3	1251.1	1321.3	1390.1	1538.1
32.5°	1208.9	1213.5	1204.4	1210.9	1251.8	1258.9	1336.2	1434.2	1520.6	1665.4
35°	1279.1	1281.7	1260.9	1272.6	1319.3	1337.5	1452.4	1592.7	1684.9	1825.1
37.5°	1532.9	1532.9	1444.6	1386.8	1431.6	1447.9	1611.5	1792.0	1887.4	2039.4
40°	1884.2	1878.3	1749.1	1631.0	1625.1	1656.9	1838.1	2043.3	2149.1	2296.5
42.5°	2258.8	2249.7	2073.8	1956.9	1937.4	1948.5	2099.7	2353.0	2460.7	2610.1
45°	2591.2	2588.6	2427.6	2270.5	2235.4	2270.5	2426.3	2715.2	2792.5	2949.6
47.5°	2869.8	2869.8	2752.3	2649.7	2631.5	2652.3	2868.5	3117.1	3110.0	3311.3
50°	3190.5	3187.9	3076.2	3032.1	3050.9	3080.1	3377.5	3540.5	3438.5	3666.4
52.5°	3415.2	3430.7	3392.4	3385.3	3481.4	3532.0	3894.3	3954.7	3732.7	4003.4
55°	3593.1	3611.2	3655.4	3705.4	3890.4	3956.7	4394.9	4347.5	3978.7	4295.6
57.5°	3845.0	3819.0	3887.2	3985.9	4285.2	4365.0	4879.9	4718.2	4176.8	4532.6
60°	4150.8	4154.7	4166.4	4291.0	4679.3	4781.9	5357.8	5068.9	4304.0	4678.0
62.5°	4518.3	4524.1	4548.1	4739.7	5208.4	5305.2	5866.8	5355.8	4362.4	4637.1
65°	4492.9	4517.6	4785.8	5440.9	6012.9	6108.3	6460.9	5557.1	4274.1	4263.1
67.5°	4093.0	4133.3	4581.9	6278.4	7225.7	7332.2	7179.0	5596.7	3893.0	3315.2
70°	3568.4	3582.7	4122.2	7031.6	8630.1	8737.9	7821.8	5161.0	2954.2	1849.1
72.5°	2786.7	2789.9	3423.0	7206.2	9392.3	9398.2	7317.3	3831.3	1588.8	710.3
75°	1990.7	1971.2	2292.6	5844.1	8263.3	8329.5	5485.7	1797.2	607.1	335.7
77.5°	1067.4	1088.8	1297.2	3465.8	5708.4	5821.4	2993.1	518.1	309.1	228.5
80°	329.8	348.0	531.8	1586.8	3233.4	3301.5	1109.6	230.5	215.6	163.0
82.5°	103.9	107.8	248.0	666.8	1342.0	1373.2	321.4	130.5	147.4	107.8
85°	29.9	30.5	110.4	248.7	331.8	338.3	90.2	50.6	84.4	66.9
87.5°	3.2	10.4	41.6	41.6	29.2	28.6	9.7	11.0	24.0	8.4
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°
1284.3	0°	1284.3	1284.3	1284.3	1284.3	1284.3	1284.3	1284.3	1284.3	1284.3	1284.3
1290.1	2.5°	1286.9	1287.5	1279.1	1264.8	1249.2	1236.2	1220.0	1207.0	1197.9	1195.3
1301.8	5°	1295.9	1291.4	1267.4	1223.9	1171.9	1127.1	1077.1	1037.5	1011.6	1000.5
1314.1	7.5°	1309.6	1296.6	1244.0	1158.3	1059.0	970.7	881.1	811.6	767.4	745.4
1325.8	10°	1321.3	1295.3	1205.0	1063.5	911.6	777.8	657.1	573.3	526.6	504.5
1339.4	12.5°	1332.3	1294.6	1154.4	951.2	745.4	581.7	469.4	427.9	414.9	410.3
1361.5	15°	1353.1	1296.6	1090.8	822.6	579.8	439.6	398.7	398.0	400.6	399.3
1395.3	17.5°	1381.6	1298.5	1018.7	686.3	447.3	387.6	385.7	391.5	395.4	393.5
1437.5	20°	1418.7	1306.3	942.1	551.2	384.4	374.6	379.2	384.4	387.6	384.4
1494.0	22.5°	1470.6	1320.0	858.3	442.8	364.2	366.8	370.7	376.6	379.8	375.3
1566.0	25°	1534.2	1341.4	775.9	385.0	354.5	357.7	363.6	370.1	374.0	369.4
1656.9	27.5°	1616.7	1375.8	699.9	372.0	344.8	346.7	355.2	364.9	370.1	364.2
1786.1	30°	1736.1	1432.3	634.3	377.9	338.9	334.4	346.1	359.7	365.5	360.3
1962.1	32.5°	1894.6	1512.1	594.1	387.0	336.3	320.1	331.1	348.7	358.4	355.2
2191.9	35°	2102.3	1633.6	578.5	397.4	334.4	305.2	312.9	331.8	348.7	351.9
2481.5	37.5°	2354.3	1802.4	583.0	401.9	328.5	292.8	296.7	312.9	335.0	345.4
2807.4	40°	2640.6	1999.1	609.0	397.4	322.0	282.4	283.1	295.4	314.9	330.5
3158.0	42.5°	2936.0	2228.9	657.1	380.5	316.2	273.3	271.4	279.8	292.8	303.9
3508.0	45°	3217.1	2465.3	704.5	357.1	309.1	264.3	259.7	263.0	265.6	270.1
3848.9	47.5°	3462.6	2631.5	690.8	335.7	299.3	253.9	246.1	244.8	237.0	236.3
4153.4	50°	3632.0	2667.9	613.6	314.2	285.0	242.2	229.8	222.1	208.4	201.9
4381.3	52.5°	3685.9	2524.4	501.2	292.8	261.7	226.6	209.1	196.7	179.8	174.0
4512.4	55°	3614.5	2243.2	400.6	266.8	229.2	205.8	186.3	170.1	156.5	149.3
4526.7	57.5°	3439.8	1885.5	316.8	236.3	194.8	182.4	163.0	146.7	135.0	127.9
4368.3	60°	3150.3	1497.2	250.6	200.0	166.2	157.1	137.0	126.6	116.2	107.8
3959.2	62.5°	2710.7	1068.7	196.7	158.4	138.9	128.6	116.9	109.1	96.7	85.1
3223.6	65°	2115.3	653.8	151.9	116.2	111.7	106.5	99.3	92.2	77.3	65.6
2103.0	67.5°	1334.2	309.7	108.4	87.7	88.3	85.7	82.5	76.6	65.6	55.2
942.1	70°	587.6	150.0	71.4	66.9	65.6	65.6	68.2	66.2	55.8	46.1
327.2	72.5°	200.0	80.5	53.2	50.6	47.4	46.7	57.1	55.2	44.8	35.7
163.0	75°	104.5	53.9	39.0	36.4	28.6	34.4	45.4	42.9	31.8	23.4
107.8	77.5°	68.2	38.3	26.6	23.4	16.2	22.7	33.8	29.9	18.8	11.7
70.8	80°	42.9	25.3	15.6	11.0	7.8	12.3	18.2	13.0	7.1	2.6
41.6	82.5°	22.7	13.0	5.8	3.9	3.2	3.9	4.5	3.2	1.3	0.0
21.4	85°	9.1	4.5	1.9	1.3	0.6	0.0	1.3	0.6	0.0	0.0
3.9	87.5°	3.2	0.6	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>
1284.3
1199.9
1004.4
748.6
505.1
409.0
398.7
392.8
383.7
374.6
368.8
364.2
359.7
355.2
351.9
348.0
335.7
308.4
272.7
235.7
202.6
173.4
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