

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: P939088

Luminaire Tested: **GALN-SB1C-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939088
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-SB1C-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5672 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

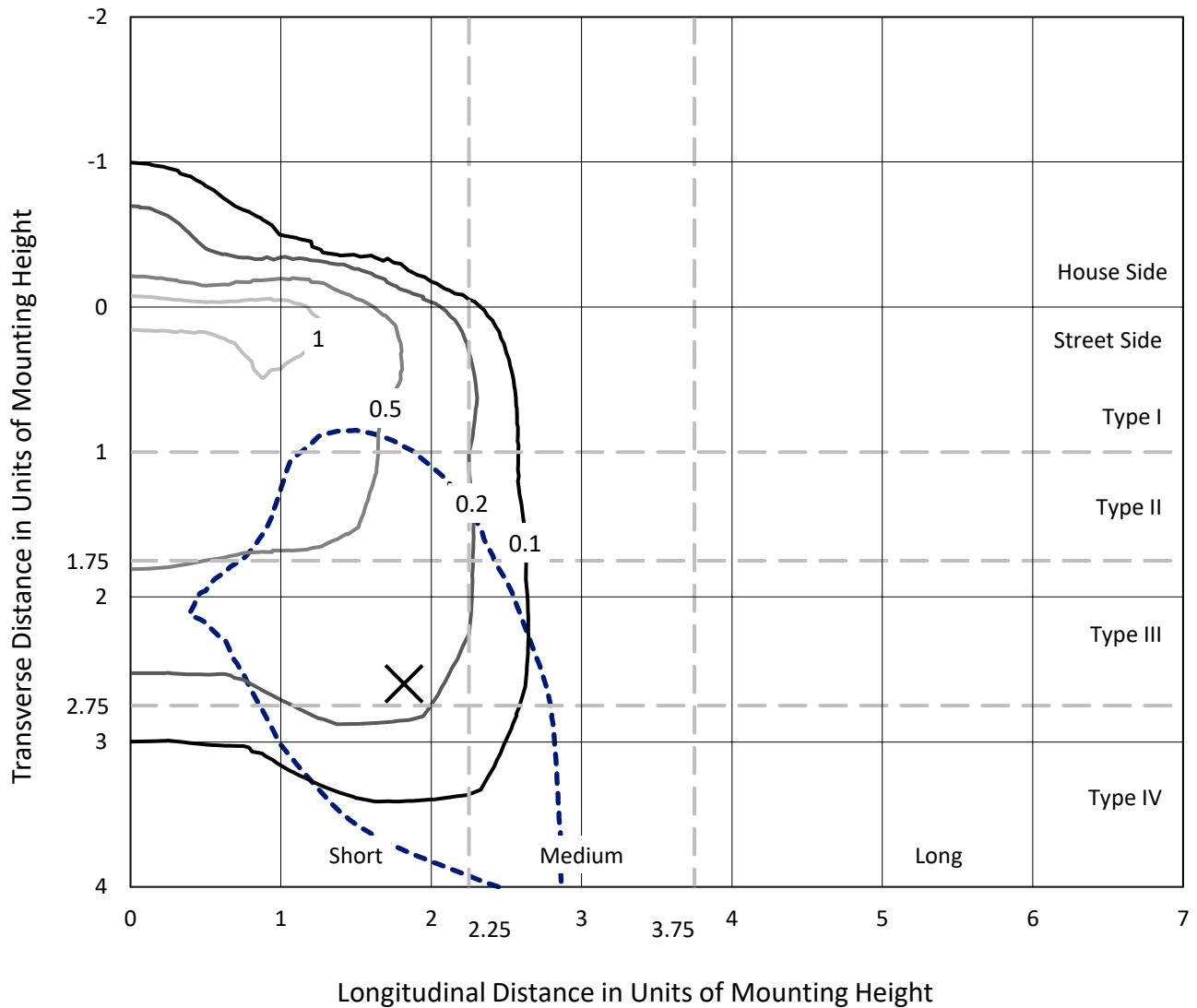
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

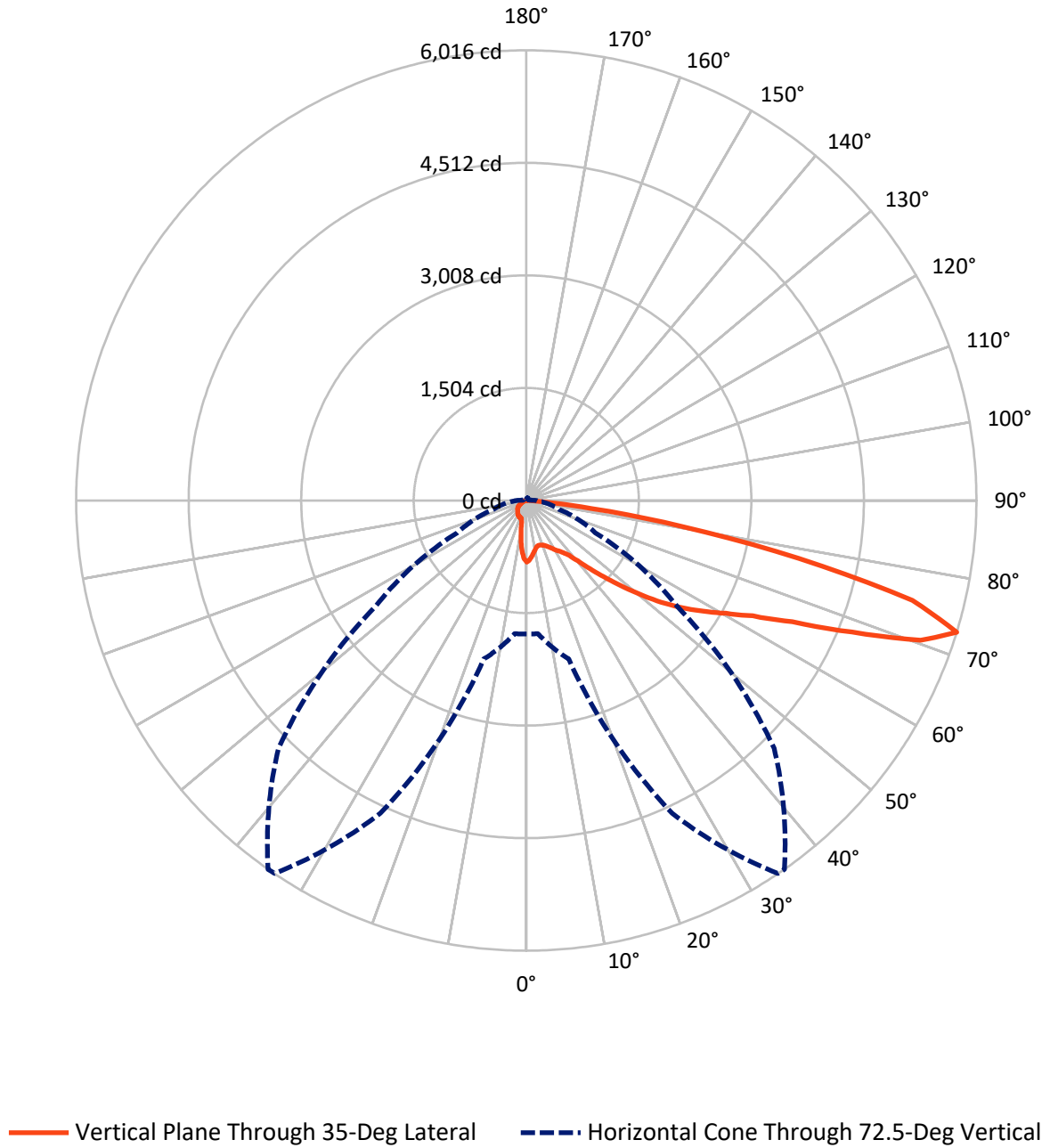
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	638.3	0.0	638.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	5033.6	0.0	5033.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	5672.0	0.0	5672.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	1.2
10°-20°	158.0	2.8
20°-30°	256.7	4.5
30°-40°	428.3	7.6
40°-50°	810.4	14.3
50°-60°	1287.7	22.7
60°-70°	1593.0	28.1
70°-80°	990.2	17.5
80°-90°	80.0	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°	5672.0	100.0
0°-180°	5672.0	100.0

Coefficient of Utilization



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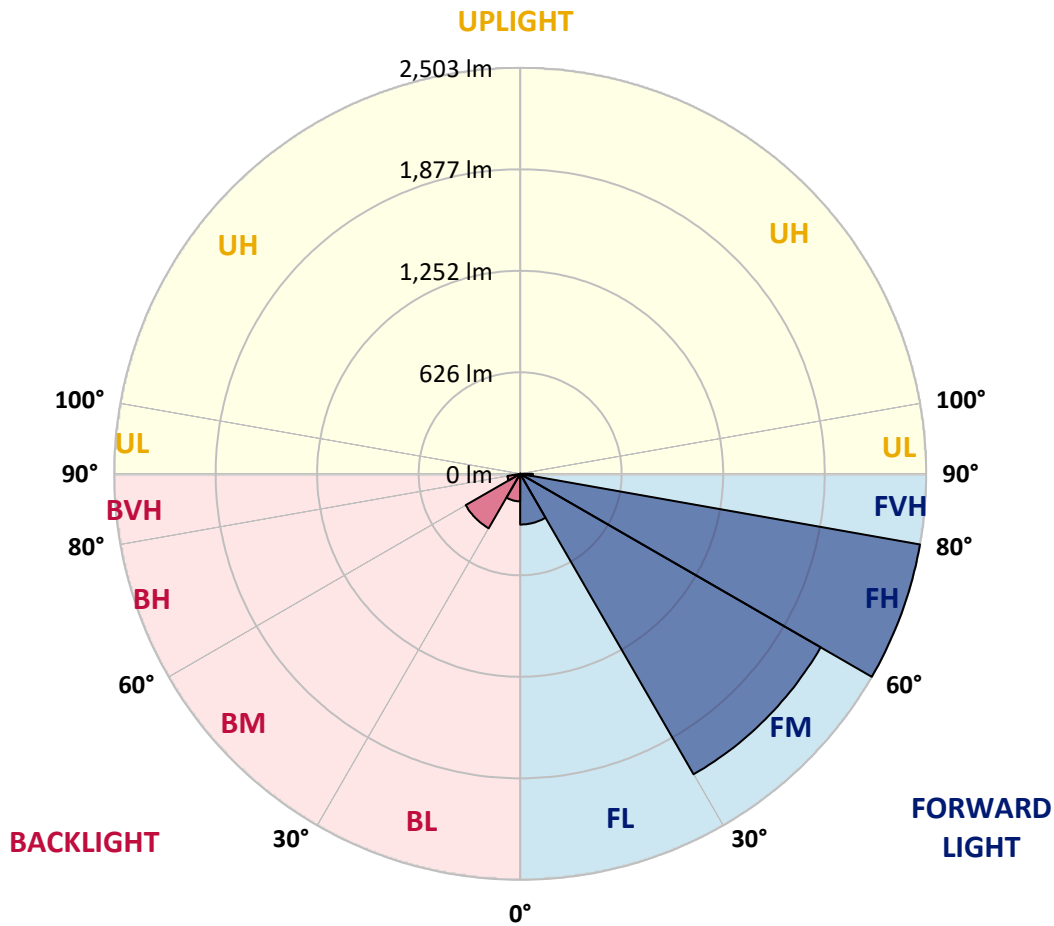
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	312.7	5.5			
FM (30°-60°)	2138.9	37.7			
FH (60°-80°)	2503.1	44.1			G2/5000
FVH (80°-90°)	78.9	1.4			G1/100
BL (0°-30°)	169.6	3.0	B1/500		
BM (30°-60°)	387.5	6.8	B1/1000		
BH (60°-80°)	80.1	1.4	B0/110		G0/110
BVH (80°-90°)	1.1	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°	822.1	822.1	822.1	822.1	822.1	822.1	822.1	822.1	822.1	822.1
2.5°	785.5	792.1	793.4	795.5	795.5	798.0	802.1	807.9	817.5	822.5
5°	724.0	729.0	735.2	740.2	749.7	751.0	767.2	783.0	805.0	821.6
7.5°	662.1	667.9	676.2	688.2	700.7	704.4	729.0	755.6	790.5	821.6
10°	618.4	618.8	626.3	638.4	658.3	662.9	692.8	730.6	774.3	816.7
12.5°	593.9	596.8	600.1	609.3	628.4	631.3	663.3	707.8	758.1	813.8
15°	593.9	596.0	598.1	602.6	618.0	620.5	648.8	693.2	749.7	815.0
17.5°	600.1	603.5	601.8	607.2	623.4	625.1	650.0	689.1	749.3	822.9
20°	615.1	617.6	614.3	617.6	633.8	637.1	662.9	697.0	756.4	836.6
22.5°	638.8	640.0	632.1	634.6	651.3	655.4	685.3	719.4	773.4	858.6
25°	668.7	671.2	659.1	662.1	677.8	682.8	717.3	753.1	800.5	889.0
27.5°	703.2	704.4	694.1	693.6	714.0	721.1	756.0	794.6	836.6	927.2
30°	742.7	746.4	736.4	734.8	760.6	766.4	800.9	845.8	889.8	984.6
32.5°	773.9	776.8	770.9	775.1	801.3	805.9	855.3	918.1	973.3	1066.0
35°	818.7	820.4	807.1	814.6	844.5	856.1	929.7	1019.5	1078.5	1168.3
37.5°	981.2	981.2	924.7	887.7	916.4	926.8	1031.5	1147.1	1208.2	1305.4
40°	1206.1	1202.3	1119.6	1044.0	1040.3	1060.6	1176.6	1307.9	1375.6	1470.0
42.5°	1445.9	1440.1	1327.4	1252.6	1240.2	1247.2	1344.1	1506.1	1575.1	1670.7
45°	1658.7	1657.0	1553.9	1453.4	1430.9	1453.4	1553.1	1738.1	1787.5	1888.1
47.5°	1837.0	1837.0	1761.7	1696.1	1684.4	1697.7	1836.1	1995.3	1990.7	2119.6
50°	2042.3	2040.6	1969.1	1940.9	1952.9	1971.6	2162.0	2266.3	2201.0	2346.9
52.5°	2186.1	2196.0	2171.5	2167.0	2228.5	2260.9	2492.8	2531.4	2389.3	2562.6
55°	2299.9	2311.6	2339.8	2371.8	2490.3	2532.7	2813.2	2782.9	2546.8	2749.6
57.5°	2461.2	2444.6	2488.2	2551.4	2743.0	2794.1	3123.7	3020.2	2673.6	2901.3
60°	2657.0	2659.4	2666.9	2746.7	2995.3	3060.9	3429.6	3244.6	2755.0	2994.4
62.5°	2892.2	2895.9	2911.3	3033.9	3334.0	3395.9	3755.4	3428.3	2792.4	2968.2
65°	2876.0	2891.8	3063.4	3482.8	3848.9	3910.0	4135.7	3557.1	2735.9	2728.9
67.5°	2620.0	2645.7	2932.9	4018.9	4625.2	4693.4	4595.3	3582.5	2492.0	2122.1
70°	2284.2	2293.3	2638.7	4501.0	5524.2	5593.2	5006.8	3303.6	1891.0	1183.6
72.5°	1783.8	1785.8	2191.1	4612.8	6012.1	6015.9	4683.8	2452.5	1017.0	454.7
75°	1274.2	1261.8	1467.5	3740.8	5289.4	5331.8	3511.4	1150.4	388.6	214.9
77.5°	683.3	697.0	830.4	2218.5	3654.0	3726.3	1915.9	331.7	197.8	146.3
80°	211.1	222.8	340.4	1015.7	2069.7	2113.3	710.3	147.5	138.0	104.3
82.5°	66.5	69.0	158.8	426.8	859.1	879.0	205.7	83.5	94.3	69.0
85°	19.1	19.5	70.7	159.2	212.4	216.5	57.8	32.4	54.0	42.8
87.5°	2.1	6.6	26.6	26.6	18.7	18.3	6.2	7.1	15.4	5.4
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°
822.1	0°	822.1	822.1	822.1	822.1	822.1	822.1	822.1	822.1	822.1	822.1
825.8	2.5°	823.7	824.1	818.7	809.6	799.6	791.3	780.9	772.6	766.8	765.1
833.3	5°	829.5	826.6	811.3	783.4	750.2	721.5	689.5	664.1	647.5	640.4
841.2	7.5°	838.3	830.0	796.3	741.4	677.8	621.3	564.0	519.5	491.2	477.1
848.7	10°	845.8	829.1	771.4	680.8	583.5	497.9	420.6	367.0	337.1	322.9
857.4	12.5°	852.8	828.7	738.9	608.9	477.1	372.4	300.5	273.9	265.6	262.7
871.5	15°	866.1	830.0	698.2	526.6	371.1	281.4	255.2	254.8	256.4	255.6
893.1	17.5°	884.4	831.2	652.1	439.3	286.4	248.1	246.9	250.6	253.1	251.9
920.1	20°	908.1	836.2	603.0	352.8	246.0	239.8	242.7	246.0	248.1	246.0
956.3	22.5°	941.3	844.9	549.4	283.4	233.2	234.8	237.3	241.0	243.1	240.2
1002.4	25°	982.1	858.6	496.6	246.5	226.9	229.0	232.7	236.9	239.4	236.5
1060.6	27.5°	1034.9	880.7	448.0	238.1	220.7	221.9	227.3	233.6	236.9	233.2
1143.3	30°	1111.3	916.8	406.0	241.9	216.9	214.0	221.5	230.2	234.0	230.7
1256.0	32.5°	1212.7	967.9	380.3	247.7	215.3	204.9	212.0	223.2	229.4	227.3
1403.1	35°	1345.7	1045.7	370.3	254.3	214.0	195.3	200.3	212.4	223.2	225.3
1588.4	37.5°	1507.0	1153.7	373.2	257.3	210.3	187.4	189.9	200.3	214.5	221.1
1797.1	40°	1690.3	1279.6	389.8	254.3	206.1	180.8	181.2	189.1	201.6	211.5
2021.5	42.5°	1879.4	1426.8	420.6	243.5	202.4	175.0	173.7	179.1	187.4	194.5
2245.5	45°	2059.3	1578.0	450.9	228.6	197.8	169.2	166.2	168.3	170.0	172.9
2463.7	47.5°	2216.4	1684.4	442.2	214.9	191.6	162.5	157.5	156.7	151.7	151.3
2658.6	50°	2324.9	1707.7	392.7	201.2	182.4	155.0	147.1	142.1	133.4	129.3
2804.5	52.5°	2359.4	1615.9	320.8	187.4	167.5	145.0	133.8	125.9	115.1	111.4
2888.4	55°	2313.7	1435.9	256.4	170.8	146.7	131.7	119.3	108.9	100.2	95.6
2897.6	57.5°	2201.9	1206.9	202.8	151.3	124.7	116.8	104.3	93.9	86.4	81.9
2796.2	60°	2016.5	958.4	160.4	128.0	106.4	100.6	87.7	81.0	74.4	69.0
2534.3	62.5°	1735.1	684.1	125.9	101.4	88.9	82.3	74.8	69.8	61.9	54.4
2063.5	65°	1354.0	418.5	97.3	74.4	71.5	68.2	63.6	59.0	49.5	42.0
1346.1	67.5°	854.1	198.2	69.4	56.1	56.5	54.9	52.8	49.0	42.0	35.3
603.0	70°	376.1	96.0	45.7	42.8	42.0	42.0	43.6	42.4	35.7	29.5
209.5	72.5°	128.0	51.5	34.1	32.4	30.3	29.9	36.6	35.3	28.7	22.9
104.3	75°	66.9	34.5	24.9	23.3	18.3	22.0	29.1	27.4	20.4	15.0
69.0	77.5°	43.6	24.5	17.0	15.0	10.4	14.5	21.6	19.1	12.1	7.5
45.3	80°	27.4	16.2	10.0	7.1	5.0	7.9	11.6	8.3	4.6	1.7
26.6	82.5°	14.5	8.3	3.7	2.5	2.1	2.5	2.9	2.1	0.8	0.0
13.7	85°	5.8	2.9	1.2	0.8	0.4	0.0	0.8	0.4	0.0	0.0
2.5	87.5°	2.1	0.4	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

180°
822.1
768.0
642.9
479.2
323.3
261.8
255.2
251.4
245.6
239.8
236.1
233.2
230.2
227.3
225.3
222.8
214.9
197.4
174.6
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