

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: P939128

Luminaire Tested: **GALN-SB1C-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939128
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-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 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: 4932 lumens
Efficiency: N/A
Efficacy: 90.7 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

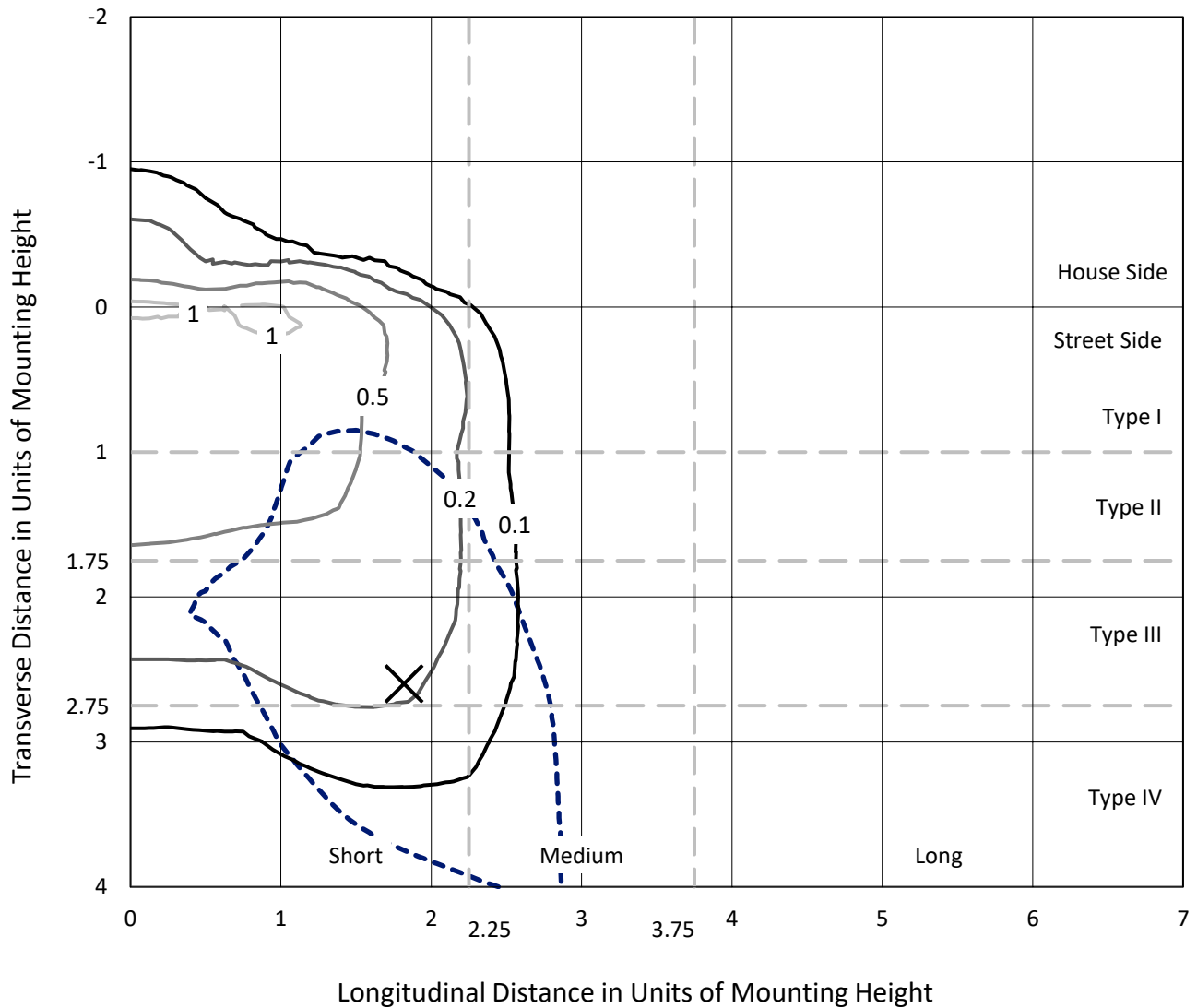
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

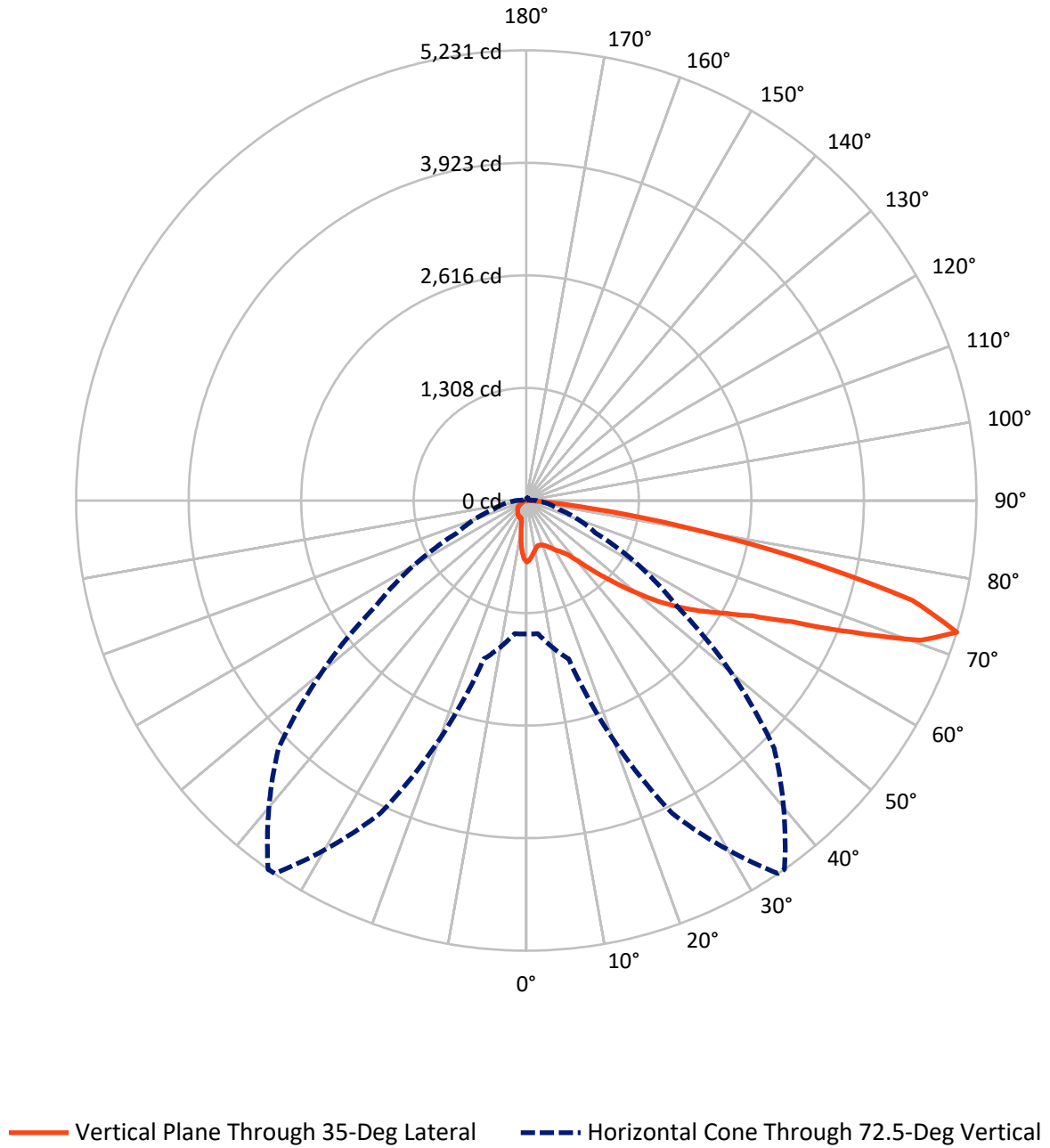
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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	555.1	0.0	555.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	4376.9	0.0	4376.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	4932.0	0.0	4932.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.7	1.2
10°-20°	137.4	2.8
20°-30°	223.2	4.5
30°-40°	372.4	7.6
40°-50°	704.7	14.3
50°-60°	1119.7	22.7
60°-70°	1385.2	28.1
70°-80°	861.0	17.5
80°-90°	69.6	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°	4932.0	100.0
0°-180°	4932.0	100.0

Coefficient of Utilization



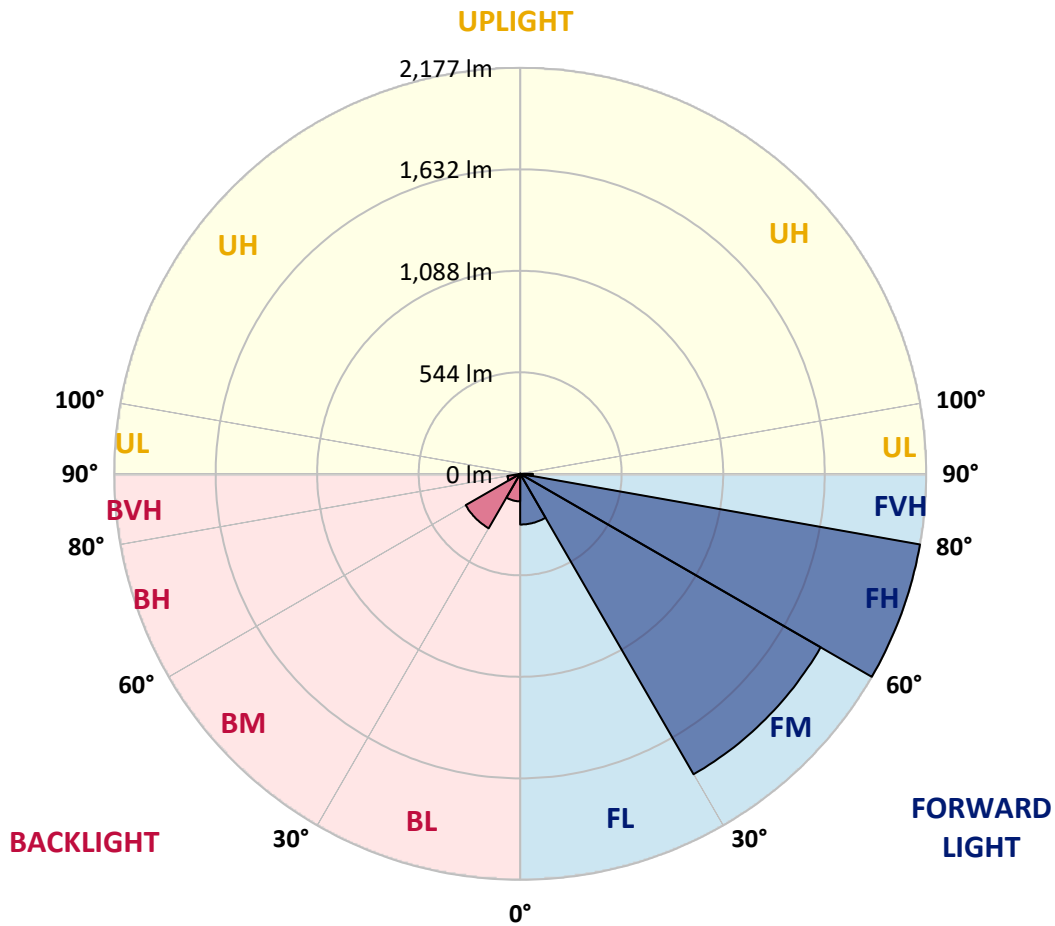
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	271.9	5.5			
FM (30°-60°)	1859.9	37.7			
FH (60°-80°)	2176.6	44.1			G2/5000
FVH (80°-90°)	68.6	1.4			G1/100
BL (0°-30°)	147.5	3.0	B1/500		
BM (30°-60°)	337.0	6.8	B1/1000		
BH (60°-80°)	69.7	1.4	B0/110		G0/110
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°	34°	35°	45°	55°	65°	75°
0°	714.8	714.8	714.8	714.8	714.8	714.8	714.8	714.8	714.8	714.8
2.5°	683.0	688.8	689.9	691.7	691.7	693.9	697.5	702.5	710.8	715.2
5°	629.5	633.9	639.3	643.6	651.9	653.0	667.1	680.8	700.0	714.5
7.5°	575.7	580.7	588.0	598.4	609.3	612.5	633.9	657.0	687.3	714.5
10°	537.7	538.1	544.6	555.1	572.4	576.4	602.4	635.3	673.3	710.1
12.5°	516.4	518.9	521.8	529.8	546.4	548.9	576.8	615.4	659.2	707.6
15°	516.4	518.2	520.0	524.0	537.4	539.5	564.1	602.8	651.9	708.7
17.5°	521.8	524.7	523.3	528.0	542.1	543.5	565.2	599.2	651.6	715.5
20°	534.8	537.0	534.1	537.0	551.1	554.0	576.4	606.0	657.7	727.5
22.5°	555.4	556.5	549.7	551.8	566.3	569.9	595.9	625.6	672.5	746.6
25°	581.5	583.6	573.2	575.7	589.4	593.7	623.7	654.8	696.0	773.0
27.5°	611.5	612.5	603.5	603.1	620.9	627.0	657.4	691.0	727.5	806.2
30°	645.8	649.0	640.4	638.9	661.3	666.4	696.4	735.4	773.7	856.1
32.5°	672.9	675.4	670.4	674.0	696.7	700.7	743.7	798.3	846.4	926.9
35°	711.9	713.4	701.8	708.3	734.3	744.4	808.4	886.5	937.8	1015.8
37.5°	853.2	853.2	804.1	771.9	796.8	805.9	896.9	997.4	1050.5	1135.1
40°	1048.7	1045.5	973.6	907.8	904.5	922.2	1023.1	1137.3	1196.2	1278.2
42.5°	1257.2	1252.2	1154.3	1089.2	1078.4	1084.5	1168.7	1309.6	1369.6	1452.8
45°	1442.3	1440.8	1351.2	1263.8	1244.2	1263.8	1350.5	1511.3	1554.3	1641.8
47.5°	1597.3	1597.3	1531.9	1474.8	1464.7	1476.2	1596.6	1735.0	1731.0	1843.0
50°	1775.8	1774.4	1712.2	1687.7	1698.1	1714.4	1879.9	1970.6	1913.9	2040.7
52.5°	1900.9	1909.5	1888.2	1884.2	1937.7	1965.9	2167.6	2201.2	2077.6	2228.3
55°	1999.9	2010.0	2034.6	2062.4	2165.4	2202.3	2446.2	2419.8	2214.5	2390.9
57.5°	2140.1	2125.6	2163.6	2218.5	2385.1	2429.6	2716.1	2626.2	2324.8	2522.8
60°	2310.3	2312.5	2319.0	2388.4	2604.5	2661.6	2982.1	2821.3	2395.6	2603.8
62.5°	2514.9	2518.1	2531.5	2638.1	2899.0	2952.8	3265.4	2981.0	2428.1	2581.0
65°	2500.8	2514.5	2663.7	3028.4	3346.8	3399.9	3596.1	3093.1	2379.0	2372.8
67.5°	2278.1	2300.6	2550.3	3494.6	4021.8	4081.1	3995.8	3115.1	2166.8	1845.2
70°	1986.2	1994.1	2294.4	3913.8	4803.5	4863.5	4353.6	2872.6	1644.3	1029.2
72.5°	1551.0	1552.9	1905.2	4011.0	5227.7	5231.0	4072.8	2132.5	884.3	395.4
75°	1108.0	1097.2	1276.0	3252.8	4599.3	4636.2	3053.3	1000.3	337.9	186.8
77.5°	594.1	606.0	722.0	1929.1	3177.3	3240.1	1666.0	288.4	172.0	127.2
80°	183.6	193.7	296.0	883.2	1799.7	1837.6	617.6	128.3	120.0	90.7
82.5°	57.8	60.0	138.0	371.1	747.0	764.3	178.9	72.6	82.0	60.0
85°	16.6	17.0	61.4	138.4	184.7	188.3	50.2	28.2	47.0	37.2
87.5°	1.8	5.8	23.1	23.1	16.3	15.9	5.4	6.1	13.4	4.7
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°
714.8	0°	714.8	714.8	714.8	714.8	714.8	714.8	714.8	714.8	714.8	714.8
718.1	2.5°	716.3	716.6	711.9	704.0	695.3	688.1	679.0	671.8	666.7	665.3
724.6	5°	721.3	718.8	705.4	681.2	652.3	627.4	599.5	577.5	563.0	556.9
731.4	7.5°	728.9	721.7	692.4	644.7	589.4	540.3	490.4	451.7	427.2	414.9
737.9	10°	735.4	721.0	670.7	591.9	507.4	432.9	365.7	319.1	293.1	280.8
745.5	12.5°	741.6	720.6	642.5	529.4	414.9	323.8	261.3	238.2	230.9	228.4
757.8	15°	753.1	721.7	607.1	457.9	322.7	244.7	221.9	221.5	223.0	222.2
776.6	17.5°	769.0	722.8	567.0	382.0	249.0	215.7	214.7	217.9	220.1	219.0
800.1	20°	789.6	727.1	524.4	306.8	213.9	208.5	211.0	213.9	215.7	213.9
831.5	22.5°	818.5	734.7	477.7	246.5	202.7	204.2	206.3	209.6	211.4	208.9
871.7	25°	853.9	746.6	431.9	214.3	197.3	199.1	202.4	206.0	208.2	205.6
922.2	27.5°	899.8	765.8	389.6	207.1	191.9	193.0	197.7	203.1	206.0	202.7
994.2	30°	966.3	797.2	353.1	210.3	188.6	186.1	192.6	200.2	203.5	200.6
1092.1	32.5°	1054.5	841.7	330.7	215.4	187.2	178.2	184.3	194.1	199.5	197.7
1220.0	35°	1170.2	909.2	322.0	221.2	186.1	169.8	174.2	184.7	194.1	195.9
1381.2	37.5°	1310.4	1003.2	324.5	223.7	182.9	163.0	165.2	174.2	186.5	192.3
1562.6	40°	1469.7	1112.7	339.0	221.2	179.2	157.2	157.6	164.4	175.3	183.9
1757.8	42.5°	1634.2	1240.6	365.7	211.8	176.0	152.1	151.1	155.8	163.0	169.1
1952.5	45°	1790.6	1372.2	392.1	198.8	172.0	147.1	144.6	146.4	147.8	150.3
2142.3	47.5°	1927.2	1464.7	384.5	186.8	166.6	141.3	137.0	136.2	131.9	131.5
2311.8	50°	2021.6	1484.9	341.5	174.9	158.6	134.8	127.9	123.6	116.0	112.4
2438.6	52.5°	2051.6	1405.1	279.0	163.0	145.6	126.1	116.4	109.5	100.1	96.9
2511.6	55°	2011.8	1248.6	223.0	148.5	127.6	114.6	103.7	94.7	87.1	83.1
2519.6	57.5°	1914.6	1049.5	176.4	131.5	108.4	101.5	90.7	81.7	75.2	71.2
2431.4	60°	1753.4	833.3	139.5	111.3	92.5	87.5	76.3	70.5	64.7	60.0
2203.7	62.5°	1508.8	594.8	109.5	88.2	77.3	71.6	65.0	60.7	53.8	47.3
1794.3	65°	1177.4	363.9	84.6	64.7	62.2	59.3	55.3	51.3	43.0	36.5
1170.5	67.5°	742.6	172.4	60.4	48.8	49.1	47.7	45.9	42.6	36.5	30.7
524.4	70°	327.1	83.5	39.8	37.2	36.5	36.5	37.9	36.9	31.1	25.7
182.1	72.5°	111.3	44.8	29.6	28.2	26.4	26.0	31.8	30.7	24.9	19.9
90.7	75°	58.2	30.0	21.7	20.2	15.9	19.2	25.3	23.9	17.7	13.0
60.0	77.5°	37.9	21.3	14.8	13.0	9.0	12.6	18.8	16.6	10.5	6.5
39.4	80°	23.9	14.1	8.7	6.1	4.3	6.9	10.1	7.2	4.0	1.4
23.1	82.5°	12.6	7.2	3.3	2.2	1.8	2.2	2.5	1.8	0.7	0.0
11.9	85°	5.1	2.5	1.1	0.7	0.4	0.0	0.7	0.4	0.0	0.0
2.2	87.5°	1.8	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

<u>180°</u>
714.8
667.8
559.1
416.7
281.2
227.7
221.9
218.6
213.6
208.5
205.3
202.7
200.2
197.7
195.9
193.7
186.8
171.7
151.8
131.2
112.8
96.5
83.1
70.5
58.9
46.3
35.4
30.0
24.6
18.8
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