

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: P947783

Luminaire Tested: **GALN-SB3A-740-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3A-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12056 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

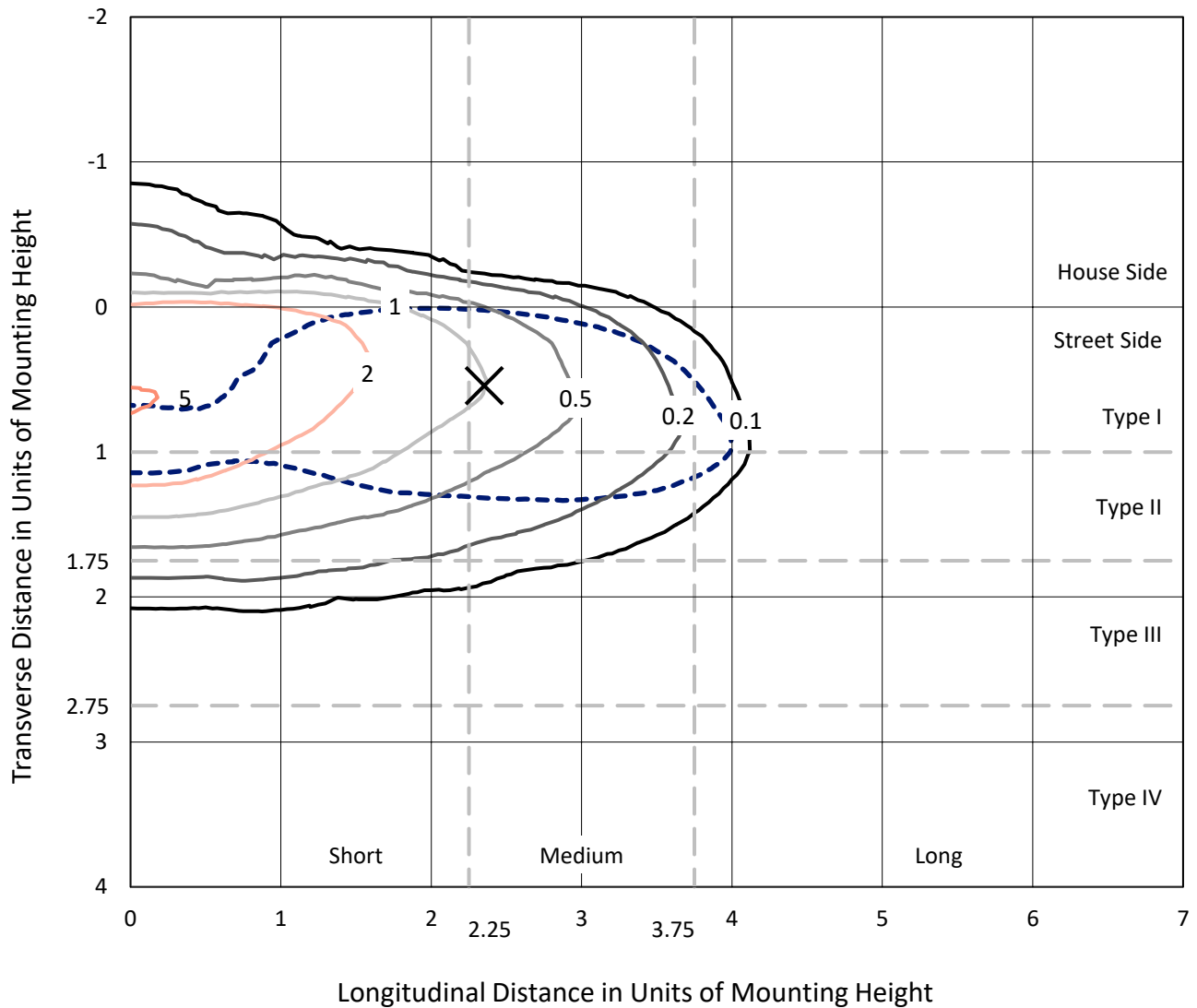
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

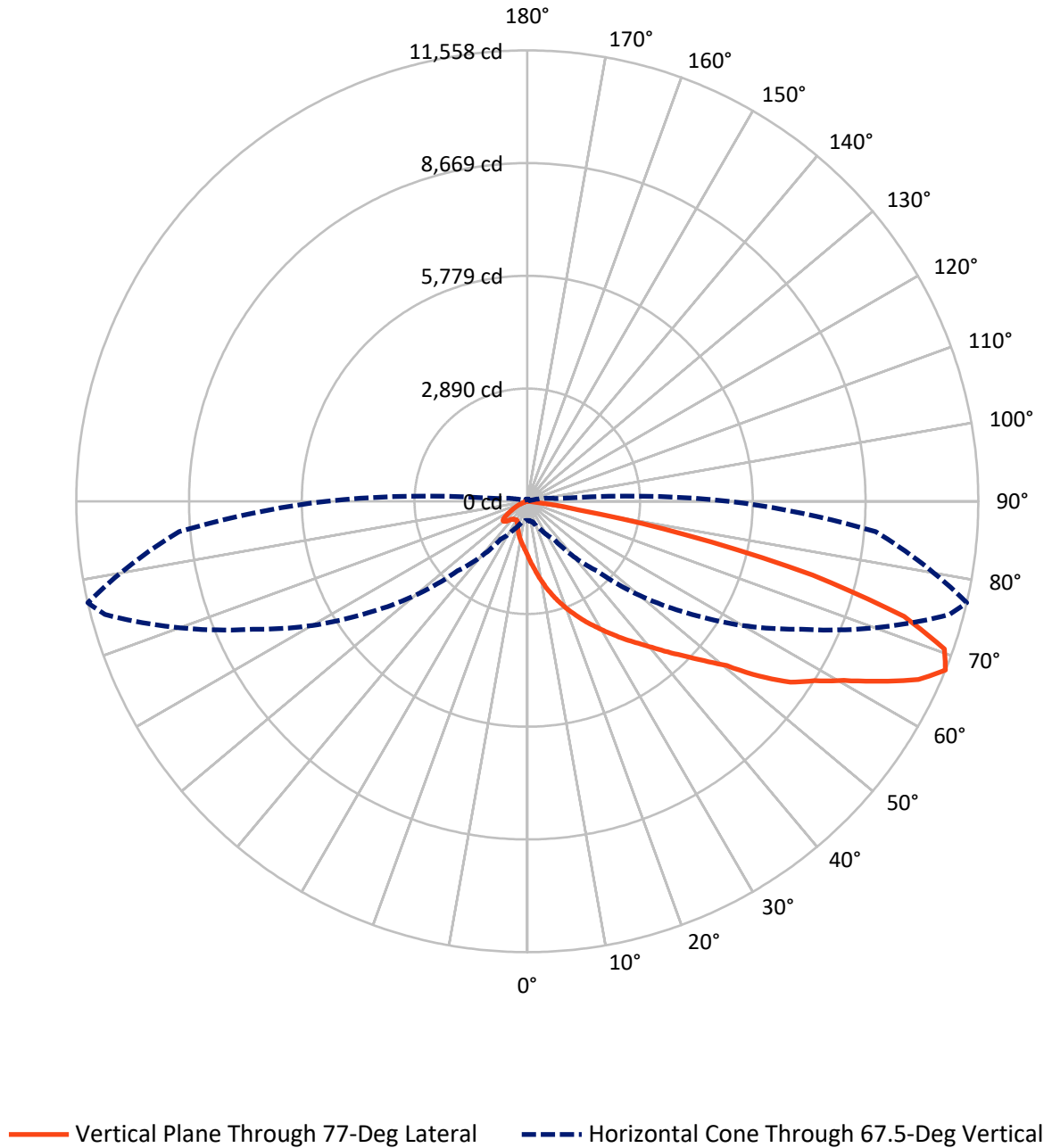
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	887.0	0.0	887.0
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	11169.0	0.0	11169.0
	% Fixture	92.6	0.0	92.6
Total	Lumens	12056.0	0.0	12056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	1.2
10°-20°	496.9	4.1
20°-30°	958.9	8.0
30°-40°	1664.7	13.8
40°-50°	2417.0	20.0
50°-60°	2775.7	23.0
60°-70°	2409.8	20.0
70°-80°	1135.0	9.4
80°-90°	56.1	0.5
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°	12056.0	100.0
0°-180°	12056.0	100.0

Coefficient of Utilization



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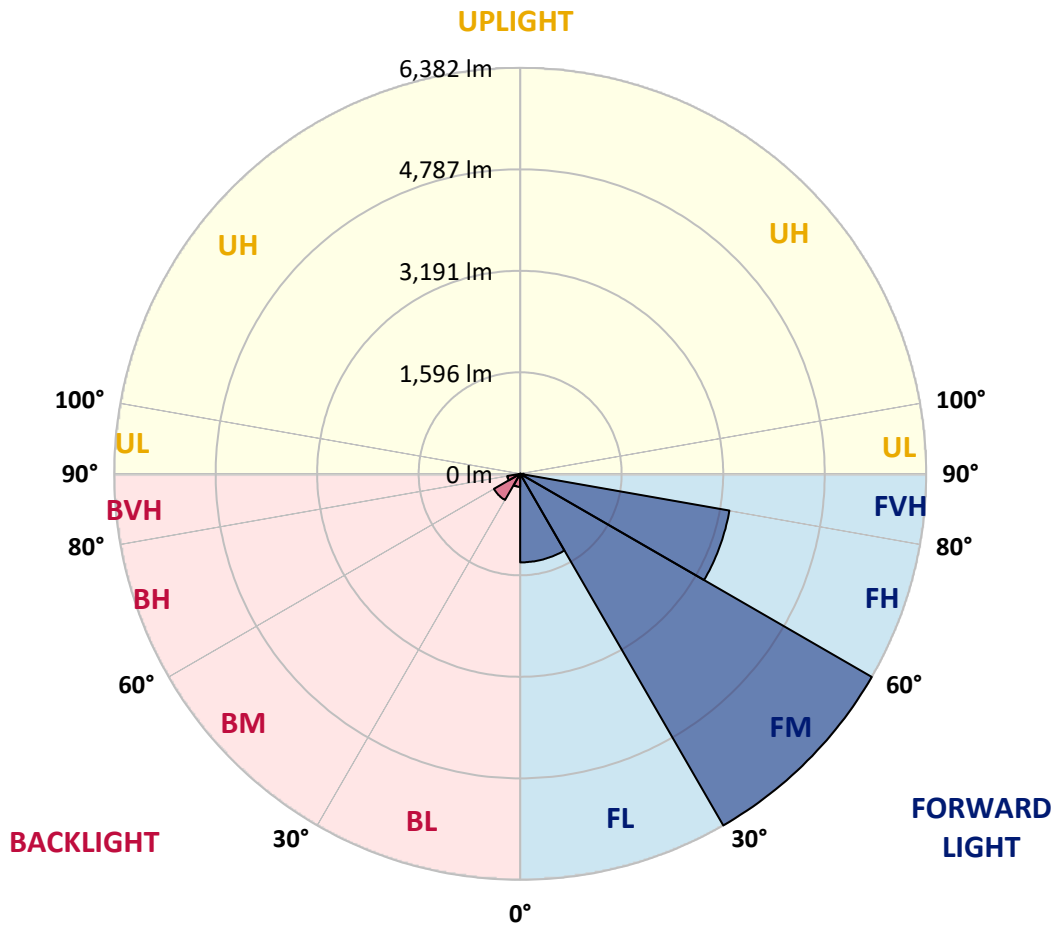
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1392.3	11.5			
FM (30°-60°)	6382.1	52.9			
FH (60°-80°)	3339.5	27.7			G2/5000
FVH (80°-90°)	55.1	0.5			G1/100
BL (0°-30°)	205.3	1.7	B1/500		
BM (30°-60°)	475.2	3.9	B1/1000		
BH (60°-80°)	205.3	1.7	B1/500		G1/500
BVH (80°-90°)	1.0	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1390.2	1390.2	1390.2	1390.2	1390.2	1390.2	1390.2	1390.2	1390.2	1390.2
2.5°	1924.8	1936.7	1919.5	1886.6	1837.2	1805.0	1726.4	1652.3	1569.9	1543.7
5°	2346.3	2356.7	2337.3	2301.3	2235.5	2172.6	2069.3	1914.3	1753.3	1701.7
7.5°	2658.4	2664.4	2656.9	2624.0	2561.1	2490.0	2374.7	2191.3	1952.5	1895.6
10°	2883.0	2902.5	2900.3	2887.5	2845.6	2788.0	2665.2	2456.3	2175.6	2102.2
12.5°	3032.0	3053.7	3066.5	3094.9	3092.7	3056.0	2948.2	2727.3	2397.9	2311.8
15°	3075.4	3098.6	3147.3	3213.2	3271.6	3290.3	3214.7	2993.1	2642.7	2532.7
17.5°	3050.7	3086.7	3145.1	3249.1	3377.1	3461.7	3453.5	3249.9	2865.1	2739.3
20°	3105.4	3139.8	3185.5	3273.1	3422.1	3575.5	3636.9	3495.4	3085.9	2954.2
22.5°	3407.8	3401.8	3406.3	3420.6	3509.6	3661.6	3788.1	3718.5	3304.5	3169.8
25°	3887.0	3860.0	3814.3	3737.2	3714.8	3788.1	3919.9	3916.2	3535.1	3390.6
27.5°	4436.5	4432.0	4324.9	4139.3	4034.4	4006.0	4068.9	4108.6	3763.4	3609.2
30°	4962.8	4974.7	4830.3	4623.6	4431.2	4319.7	4262.8	4291.2	3995.5	3845.0
32.5°	5420.9	5433.7	5276.5	5034.6	4796.6	4661.8	4542.0	4471.7	4248.6	4084.6
35°	5808.0	5820.7	5640.3	5373.0	5119.2	4997.2	4861.7	4669.3	4503.1	4350.4
37.5°	6153.9	6150.1	5908.3	5638.8	5389.5	5292.9	5221.8	4912.6	4765.1	4617.6
40°	6358.2	6374.0	6167.3	5870.1	5628.3	5557.9	5553.4	5214.3	5067.6	4924.6
42.5°	6418.1	6445.8	6296.1	6052.0	5832.7	5756.3	5873.9	5540.7	5419.4	5280.2
45°	6310.3	6337.3	6269.2	6100.0	5971.9	5922.5	6149.4	5879.1	5795.3	5657.5
47.5°	5995.9	6029.6	6046.1	6010.1	6008.6	6058.8	6396.4	6235.5	6241.5	6100.7
50°	5387.3	5444.1	5595.4	5722.6	5919.5	6166.6	6636.7	6621.8	6744.5	6623.3
52.5°	4280.8	4361.6	4882.7	5230.8	5673.2	6146.4	6901.0	7241.6	7627.2	7449.8
55°	3440.0	3440.0	3863.8	4515.1	5192.6	6013.1	7016.3	7644.4	8228.4	8186.4
57.5°	2804.4	2838.1	3108.4	3684.1	4497.1	5695.7	7087.4	7897.5	8712.7	8682.0
60°	1730.9	1803.5	2314.1	2882.3	3705.8	5130.5	7042.5	8153.5	9300.4	9325.1
62.5°	974.7	1001.7	1229.3	2073.7	2881.5	4370.6	6698.9	8296.5	10052.1	10156.9
65°	673.0	686.5	774.1	1290.7	1997.4	3479.7	6027.3	8207.4	10805.2	11017.1
67.5°	488.9	495.6	550.3	788.3	1185.1	2522.9	4974.7	7758.2	11204.2	11558.3
70°	375.8	380.3	420.0	518.1	700.0	1557.2	3613.0	6865.1	10915.2	11338.2
72.5°	305.4	309.9	340.6	383.3	464.2	920.8	2189.8	5575.2	9639.6	10096.2
75°	257.5	263.5	291.2	318.9	363.8	591.4	1027.1	3882.5	7249.1	7548.6
77.5°	143.0	131.8	236.6	264.3	306.9	374.3	480.6	2284.9	4059.9	4143.0
80°	89.1	92.1	187.9	212.6	235.8	188.7	220.1	879.7	1407.5	1337.1
82.5°	5.2	12.0	144.5	153.5	161.7	80.9	83.1	298.7	339.1	311.4
85°	0.0	0.0	65.9	53.2	56.1	23.2	24.0	69.6	45.7	49.4
87.5°	0.0	0.0	0.0	1.5	0.0	2.2	4.5	6.0	2.2	3.0
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°
1390.2	0°	1390.2	1390.2	1390.2	1390.2	1390.2	1390.2	1390.2	1390.2	1390.2	1390.2
1461.4	2.5°	1409.0	1356.5	1250.2	1146.2	1061.6	983.0	926.8	873.7	846.7	845.2
1555.7	5°	1451.6	1341.6	1129.0	941.0	789.8	668.5	589.9	533.8	505.3	495.6
1671.7	7.5°	1511.5	1346.1	1022.6	761.4	583.2	479.1	434.2	416.2	410.3	403.5
1802.7	10°	1587.1	1356.5	927.6	613.1	459.7	407.3	389.3	381.8	377.3	372.8
1950.2	12.5°	1671.7	1366.3	833.2	509.1	404.3	377.3	364.6	355.6	349.6	344.4
2101.4	15°	1754.1	1372.3	735.2	436.5	375.8	354.1	340.6	330.9	322.7	316.7
2249.7	17.5°	1835.7	1380.5	643.1	393.0	352.6	330.9	317.4	305.4	298.7	292.0
2405.4	20°	1926.3	1379.0	556.2	362.3	329.4	307.7	293.5	282.2	275.5	268.0
2570.1	22.5°	2010.1	1371.5	479.9	336.1	305.4	284.5	268.8	257.5	250.8	244.8
2738.5	25°	2106.7	1365.5	416.2	312.2	283.0	262.0	244.8	234.3	226.8	221.6
2907.7	27.5°	2199.5	1356.5	369.8	290.5	261.3	241.1	224.6	212.6	205.9	202.1
3082.2	30°	2290.9	1354.3	352.6	269.5	241.8	221.6	205.1	193.9	188.7	187.2
3273.8	32.5°	2400.9	1360.3	360.1	262.0	223.8	203.6	187.9	179.7	174.4	174.4
3487.2	35°	2518.4	1358.8	371.3	268.8	211.9	185.7	173.7	168.4	163.2	163.2
3723.8	37.5°	2665.9	1361.0	380.3	280.0	207.4	170.7	164.0	157.2	154.2	154.2
3982.8	40°	2886.0	1435.2	375.8	289.7	205.9	160.2	146.7	144.5	142.2	142.2
4275.5	42.5°	3155.5	1596.1	381.8	290.5	205.1	152.7	134.8	139.2	134.0	133.3
4605.7	45°	3450.5	1772.0	420.0	274.8	204.4	149.0	128.8	134.0	125.8	125.8
4988.2	47.5°	3743.2	1946.5	458.9	252.3	202.1	148.2	123.5	120.5	118.3	119.0
5486.8	50°	4146.7	2088.7	473.9	221.6	196.9	146.7	113.8	114.5	113.0	114.5
6189.8	52.5°	4586.2	2118.7	455.9	187.2	181.9	142.2	107.1	110.1	109.3	110.8
6684.7	55°	4860.2	2086.5	376.6	155.7	158.7	124.3	100.3	106.3	106.3	106.3
7168.3	57.5°	5143.2	1949.5	267.3	126.5	131.8	101.8	94.3	102.6	101.8	101.1
7750.7	60°	5346.8	1727.9	175.9	104.1	104.8	83.8	87.6	96.6	95.8	92.1
8351.1	62.5°	5498.8	1483.1	113.0	88.3	80.1	75.6	80.1	87.6	84.6	76.4
8860.2	65°	5481.6	1143.9	86.8	75.6	65.9	65.9	69.6	76.4	67.4	53.9
8957.5	67.5°	5161.9	774.1	71.9	63.6	55.4	54.7	57.6	63.6	57.6	45.7
8458.9	70°	4590.7	506.1	57.6	49.4	44.2	40.4	46.4	54.7	48.7	36.7
7201.2	72.5°	3726.0	308.4	43.4	35.9	32.2	26.2	36.7	44.9	38.9	27.0
5007.7	75°	2410.6	157.2	29.9	23.2	17.2	15.7	27.0	33.7	27.0	16.5
2222.0	77.5°	922.3	65.9	16.5	10.5	9.0	7.5	15.0	20.2	11.2	3.7
430.5	80°	177.4	27.7	8.2	5.2	4.5	3.0	2.2	1.5	0.0	0.0
76.4	82.5°	30.7	9.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
15.0	85°	10.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.2	87.5°	3.7	0.0	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°
1390.2
843.7
494.1
402.0
371.3
342.9
315.9
291.2
267.3
244.1
220.9
202.1
186.4
174.4
163.2
154.2
142.2
132.5
125.8
119.0
114.5
110.8
106.3
101.1
92.1
74.9
52.4
44.2
35.2
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