

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: P947657

Luminaire Tested: **GALN-SB2D-940-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947657
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-SB2D-940-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 900mA 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: 12486 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

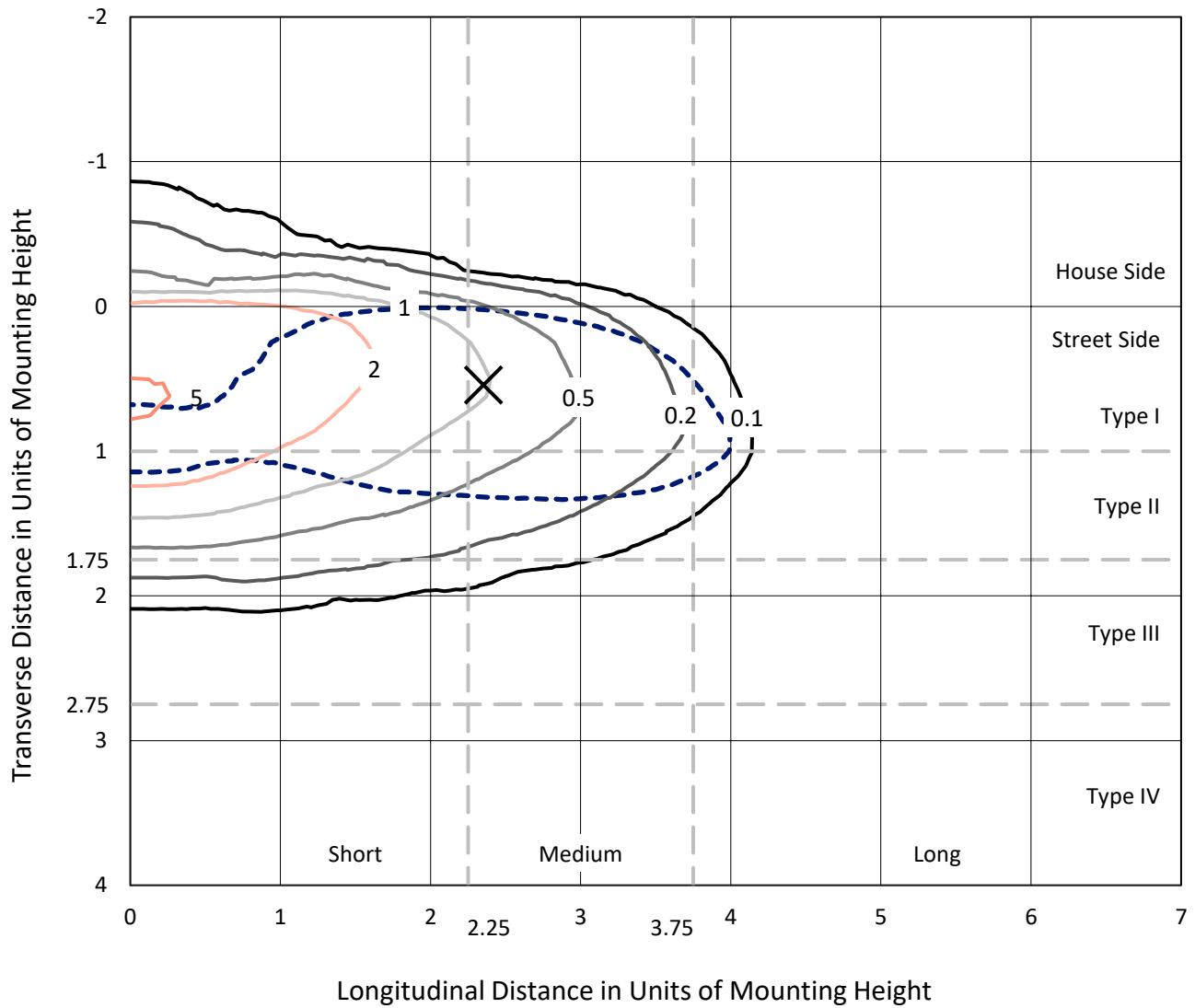
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

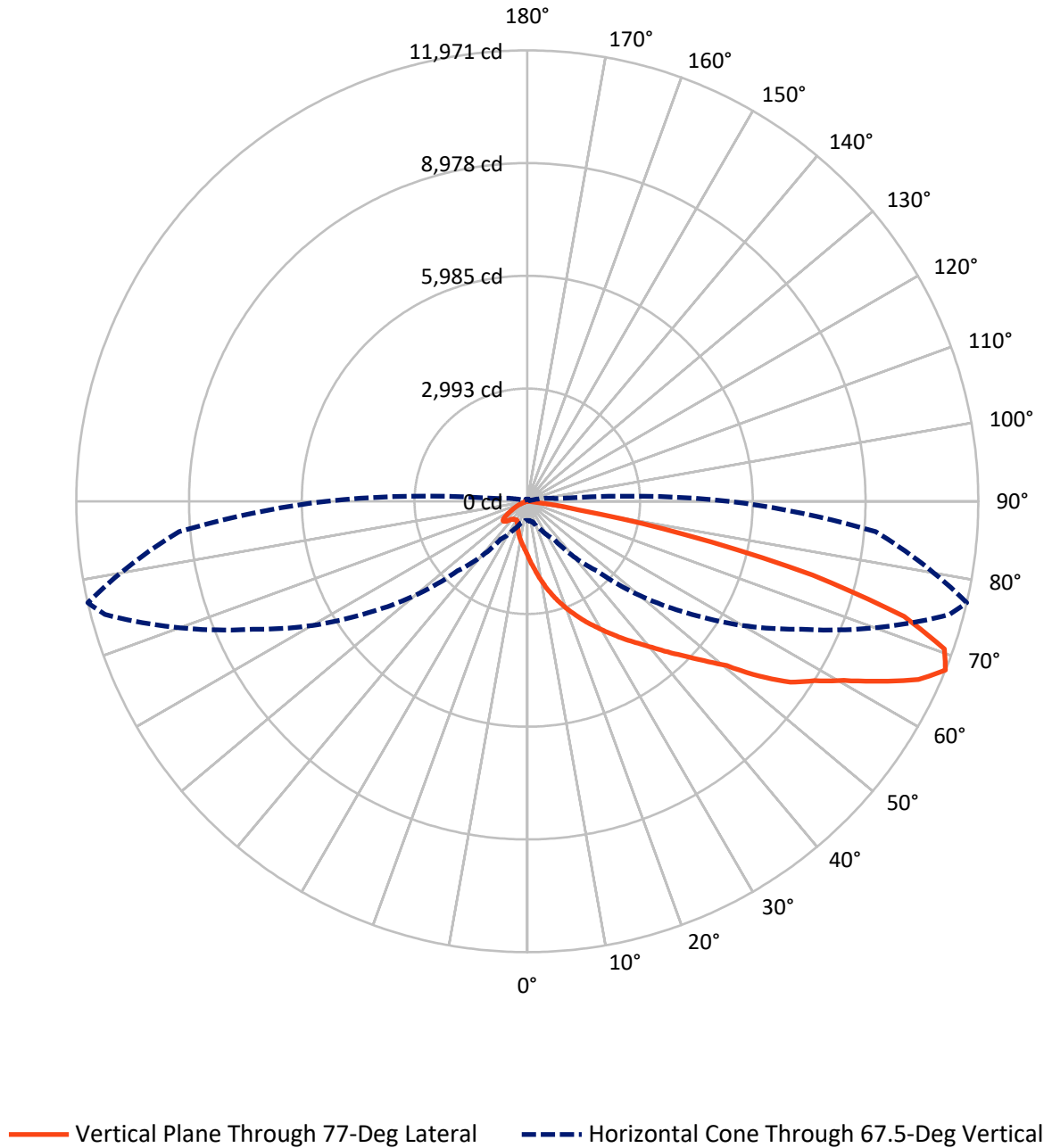
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	918.6	0.0	918.6
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	11567.4	0.0	11567.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	12486.0	0.0	12486.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.0	1.2
10°-20°	514.6	4.1
20°-30°	993.1	8.0
30°-40°	1724.1	13.8
40°-50°	2503.2	20.0
50°-60°	2874.7	23.0
60°-70°	2495.7	20.0
70°-80°	1175.5	9.4
80°-90°	58.1	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°	12486.0	100.0
0°-180°	12486.0	100.0

Coefficient of Utilization



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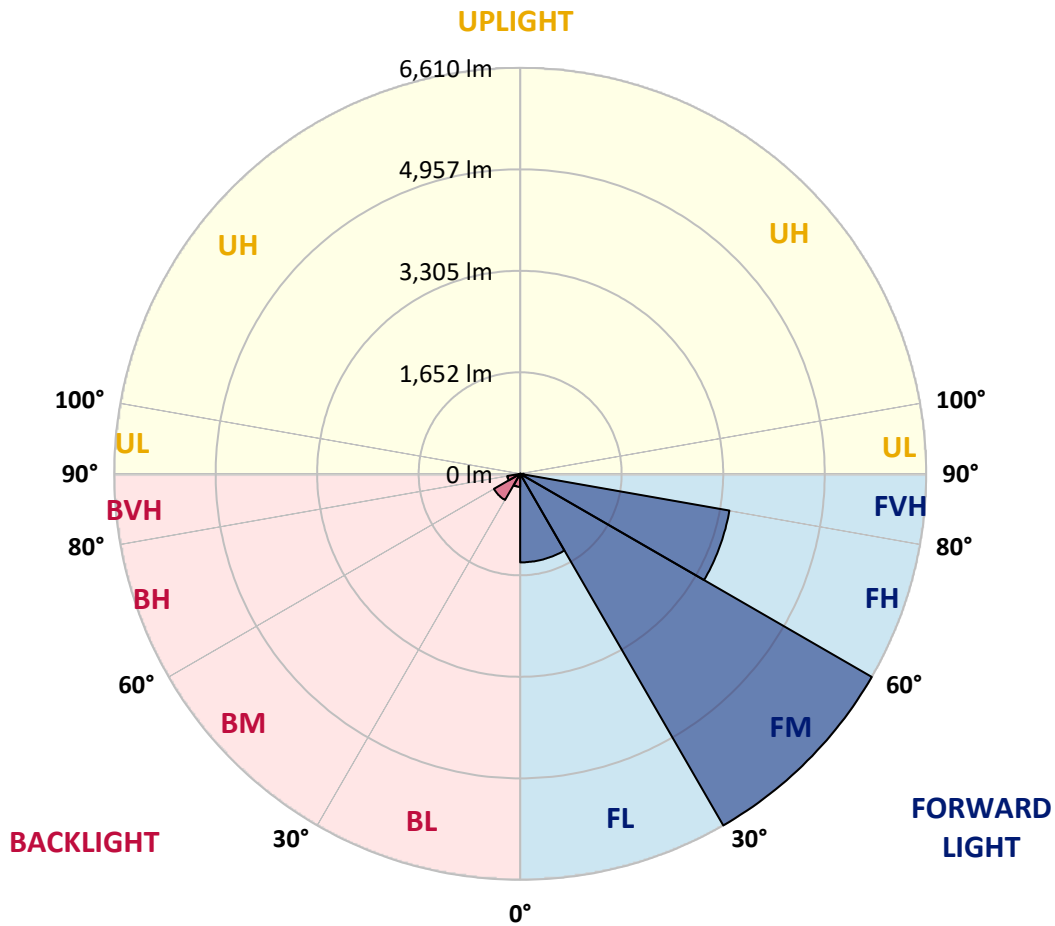
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1442.0	11.5			
FM (30°-60°)	6609.7	52.9			
FH (60°-80°)	3458.6	27.7			G2/5000
FVH (80°-90°)	57.1	0.5			G1/100
BL (0°-30°)	212.7	1.7	B1/500		
BM (30°-60°)	492.2	3.9	B1/1000		
BH (60°-80°)	212.7	1.7	B1/500		G1/500
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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8
2.5°	1993.4	2005.8	1988.0	1953.9	1902.7	1869.4	1788.0	1711.2	1625.9	1598.8
5°	2429.9	2440.8	2420.6	2383.4	2315.2	2250.1	2143.1	1982.6	1815.9	1762.4
7.5°	2753.3	2759.5	2751.7	2717.6	2652.5	2578.8	2459.4	2269.4	2022.1	1963.2
10°	2985.9	3006.0	3003.7	2990.5	2947.1	2887.4	2760.2	2543.9	2253.2	2177.2
12.5°	3140.2	3162.6	3175.8	3205.3	3203.0	3165.0	3053.3	2824.6	2483.4	2394.3
15°	3185.1	3209.2	3259.6	3327.8	3388.3	3407.6	3329.3	3099.8	2737.0	2623.0
17.5°	3159.5	3196.8	3257.2	3365.0	3497.6	3585.2	3576.7	3365.8	2967.3	2837.0
20°	3216.1	3251.8	3299.1	3389.8	3544.1	3703.1	3766.6	3620.1	3196.0	3059.5
22.5°	3529.4	3523.2	3527.8	3542.6	3634.8	3792.2	3923.3	3851.1	3422.4	3282.8
25°	4025.6	3997.7	3950.4	3870.5	3847.3	3923.3	4059.7	4055.8	3661.2	3511.5
27.5°	4594.7	4590.1	4479.2	4286.9	4178.3	4148.9	4214.0	4255.1	3897.7	3737.9
30°	5139.8	5152.2	5002.5	4788.5	4589.3	4473.8	4414.8	4444.3	4138.0	3982.2
32.5°	5614.3	5627.5	5464.6	5214.2	4967.6	4828.1	4704.0	4631.1	4400.1	4230.3
35°	6015.1	6028.3	5841.5	5564.7	5301.8	5175.4	5035.1	4835.8	4663.7	4505.5
37.5°	6373.4	6369.5	6119.0	5839.9	5581.7	5481.7	5408.0	5087.8	4935.1	4782.3
40°	6585.0	6601.3	6387.3	6079.5	5829.1	5756.2	5751.5	5400.3	5248.3	5100.2
42.5°	6647.0	6675.7	6520.7	6267.9	6040.7	5961.6	6083.4	5738.3	5612.7	5468.5
45°	6535.4	6563.3	6492.8	6317.5	6184.9	6133.8	6368.7	6088.8	6002.0	5859.3
47.5°	6209.8	6244.6	6261.7	6224.5	6222.9	6274.9	6624.6	6457.9	6464.1	6318.3
50°	5579.4	5638.3	5794.9	5926.8	6130.7	6386.5	6873.5	6857.9	6985.1	6859.5
52.5°	4433.4	4517.2	5056.8	5417.3	5875.6	6365.6	7147.1	7499.9	7899.2	7715.5
55°	3562.7	3562.7	4001.6	4676.1	5377.8	6227.6	7266.6	7917.1	8521.8	8478.4
57.5°	2904.4	2939.3	3219.2	3815.5	4657.5	5898.8	7340.2	8179.1	9023.5	8991.7
60°	1792.6	1867.8	2396.6	2985.1	3838.0	5313.5	7293.7	8444.3	9632.1	9657.7
62.5°	1009.5	1037.4	1273.1	2147.7	2984.3	4526.5	6937.8	8592.4	10410.6	10519.1
65°	697.0	711.0	801.7	1336.7	2068.6	3603.8	6242.3	8500.1	11190.6	11410.0
67.5°	506.3	513.3	569.9	816.4	1227.4	2612.9	5152.2	8034.9	11603.8	11970.6
70°	389.2	393.9	435.0	536.5	724.9	1612.7	3741.8	7109.9	11304.6	11742.6
72.5°	316.3	321.0	352.8	397.0	480.7	953.7	2267.9	5774.0	9983.4	10456.3
75°	266.7	272.9	301.6	330.3	376.8	612.5	1063.8	4020.9	7507.7	7817.8
77.5°	148.1	136.5	245.0	273.7	317.9	387.7	497.8	2366.4	4204.7	4290.8
80°	92.3	95.4	194.6	220.2	244.2	195.4	228.0	911.0	1457.7	1384.8
82.5°	5.4	12.4	149.6	158.9	167.5	83.7	86.1	309.4	351.2	322.5
85°	0.0	0.0	68.2	55.0	58.2	24.0	24.8	72.1	47.3	51.2
87.5°	0.0	0.0	0.0	1.6	0.0	2.3	4.7	6.2	2.3	3.1
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°
1439.8	0°	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8
1513.5	2.5°	1459.2	1404.9	1294.8	1187.1	1099.4	1018.0	959.9	904.8	876.9	875.4
1611.2	5°	1503.4	1389.4	1169.2	974.6	818.0	692.4	611.0	552.8	523.4	513.3
1731.3	7.5°	1565.4	1394.1	1059.1	788.5	604.0	496.2	449.7	431.1	424.9	417.9
1867.0	10°	1643.7	1404.9	960.7	635.0	476.1	421.8	403.2	395.4	390.8	386.1
2019.8	12.5°	1731.3	1415.0	863.0	527.2	418.7	390.8	377.6	368.3	362.1	356.7
2176.4	15°	1816.6	1421.2	761.4	452.0	389.2	366.7	352.8	342.7	334.2	328.0
2329.9	17.5°	1901.2	1429.7	666.0	407.1	365.2	342.7	328.7	316.3	309.4	302.4
2491.2	20°	1995.0	1428.2	576.1	375.3	341.2	318.7	303.9	292.3	285.3	277.6
2661.8	22.5°	2081.8	1420.4	497.0	348.1	316.3	294.6	278.3	266.7	259.7	253.5
2836.2	25°	2181.8	1414.2	431.1	323.3	293.1	271.4	253.5	242.7	234.9	229.5
3011.4	27.5°	2278.0	1404.9	383.0	300.8	270.6	249.7	232.6	220.2	213.2	209.3
3192.1	30°	2372.6	1402.6	365.2	279.1	250.4	229.5	212.4	200.8	195.4	193.8
3390.6	32.5°	2486.5	1408.8	372.9	271.4	231.8	210.9	194.6	186.1	180.7	180.7
3611.6	35°	2608.3	1407.3	384.6	278.3	219.4	192.3	179.9	174.5	169.0	169.0
3856.6	37.5°	2761.0	1409.6	393.9	290.0	214.8	176.8	169.8	162.8	159.7	159.7
4124.8	40°	2989.0	1486.3	389.2	300.1	213.2	165.9	152.0	149.6	147.3	147.3
4428.0	42.5°	3268.1	1653.0	395.4	300.8	212.4	158.2	139.6	144.2	138.8	138.0
4769.9	45°	3573.6	1835.2	435.0	284.6	211.7	154.3	133.4	138.8	130.3	130.3
5166.1	47.5°	3876.7	2015.9	475.3	261.3	209.3	153.5	127.9	124.8	122.5	123.3
5682.5	50°	4294.6	2163.2	490.8	229.5	203.9	152.0	117.9	118.6	117.1	118.6
6410.6	52.5°	4749.8	2194.2	472.2	193.8	188.4	147.3	110.9	114.0	113.2	114.8
6923.1	55°	5033.6	2160.9	390.0	161.3	164.4	128.7	103.9	110.1	110.1	110.1
7423.9	57.5°	5326.6	2019.0	276.8	131.0	136.5	105.4	97.7	106.2	105.4	104.7
8027.2	60°	5537.5	1789.5	182.2	107.8	108.5	86.8	90.7	100.0	99.2	95.4
8649.0	62.5°	5694.9	1536.0	117.1	91.5	83.0	78.3	83.0	90.7	87.6	79.1
9176.2	65°	5677.1	1184.7	89.9	78.3	68.2	68.2	72.1	79.1	69.8	55.8
9277.0	67.5°	5346.0	801.7	74.4	65.9	57.4	56.6	59.7	65.9	59.7	47.3
8760.6	70°	4754.4	524.1	59.7	51.2	45.7	41.9	48.1	56.6	50.4	38.0
7458.1	72.5°	3858.9	319.4	45.0	37.2	33.3	27.1	38.0	46.5	40.3	27.9
5186.3	75°	2496.6	162.8	31.0	24.0	17.8	16.3	27.9	34.9	27.9	17.1
2301.2	77.5°	955.2	68.2	17.1	10.9	9.3	7.8	15.5	20.9	11.6	3.9
445.8	80°	183.8	28.7	8.5	5.4	4.7	3.1	2.3	1.6	0.0	0.0
79.1	82.5°	31.8	9.3	3.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0
15.5	85°	10.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.4	87.5°	3.9	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°
1439.8
873.8
511.7
416.4
384.6
355.1
327.2
301.6
276.8
252.8
228.7
209.3
193.1
180.7
169.0
159.7
147.3
137.2
130.3
123.3
118.6
114.8
110.1
104.7
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77.5
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