

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: P942944

Luminaire Tested: **GALN-SB7A-940-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-940-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16881 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

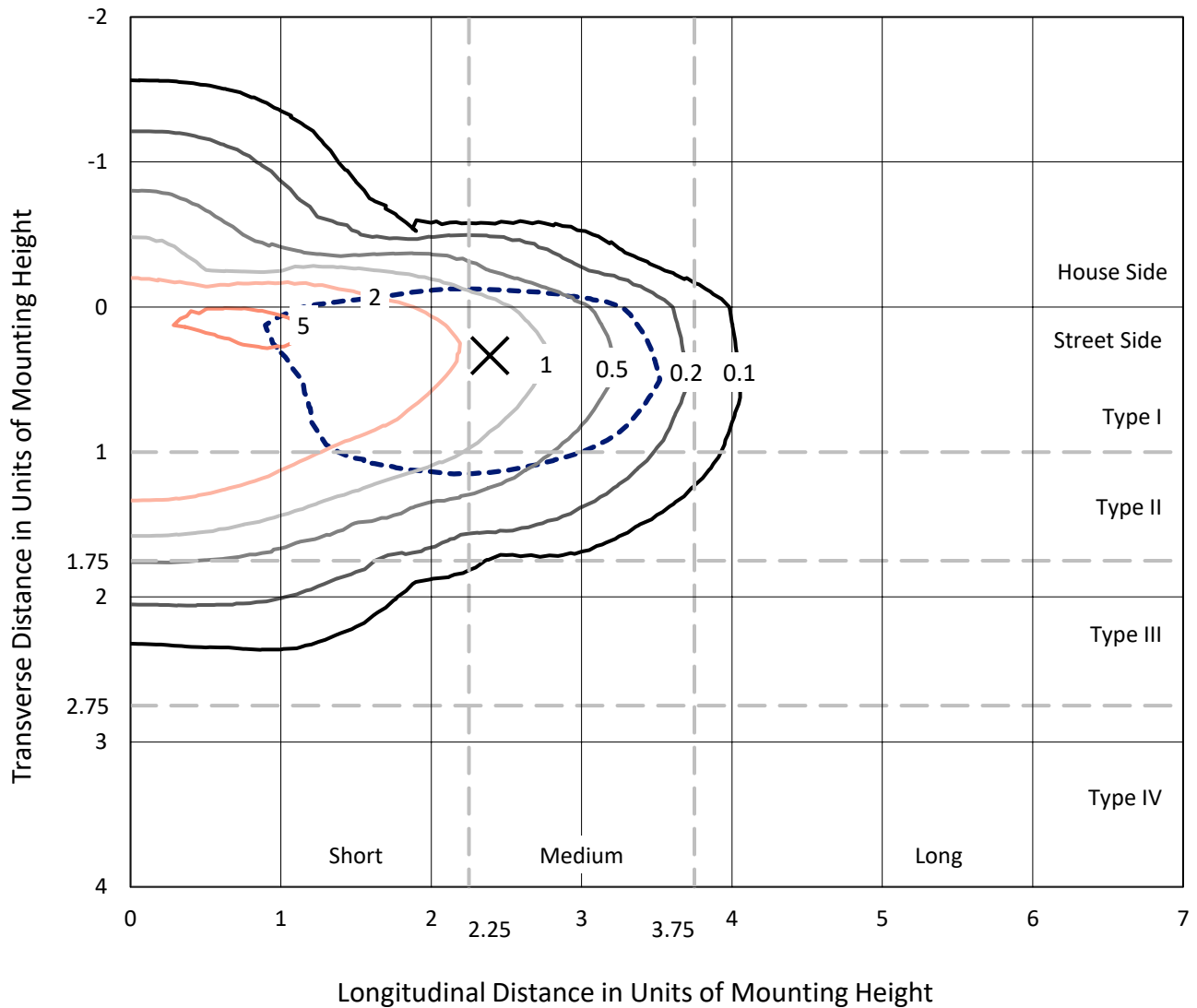
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

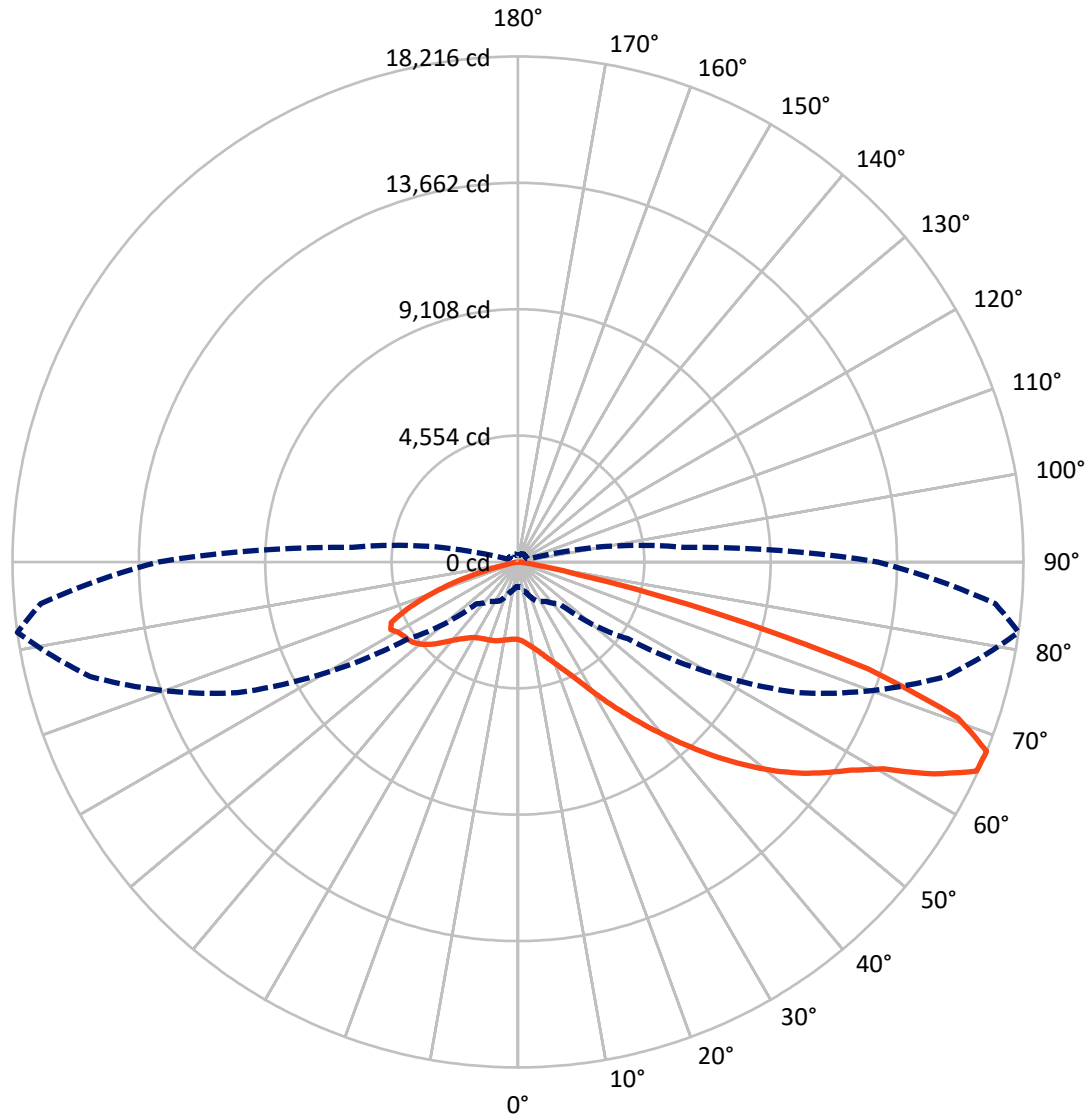
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3057.8	0.0	3057.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	13823.1	0.0	13823.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	16881.0	0.0	16881.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.2	1.5
10°-20°	647.5	3.8
20°-30°	1037.0	6.1
30°-40°	1833.8	10.9
40°-50°	3213.0	19.0
50°-60°	4285.2	25.4
60°-70°	3989.3	23.6
70°-80°	1531.1	9.1
80°-90°	95.1	0.6
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°	16881.0	100.0
0°-180°	16881.0	100.0

Coefficient of Utilization



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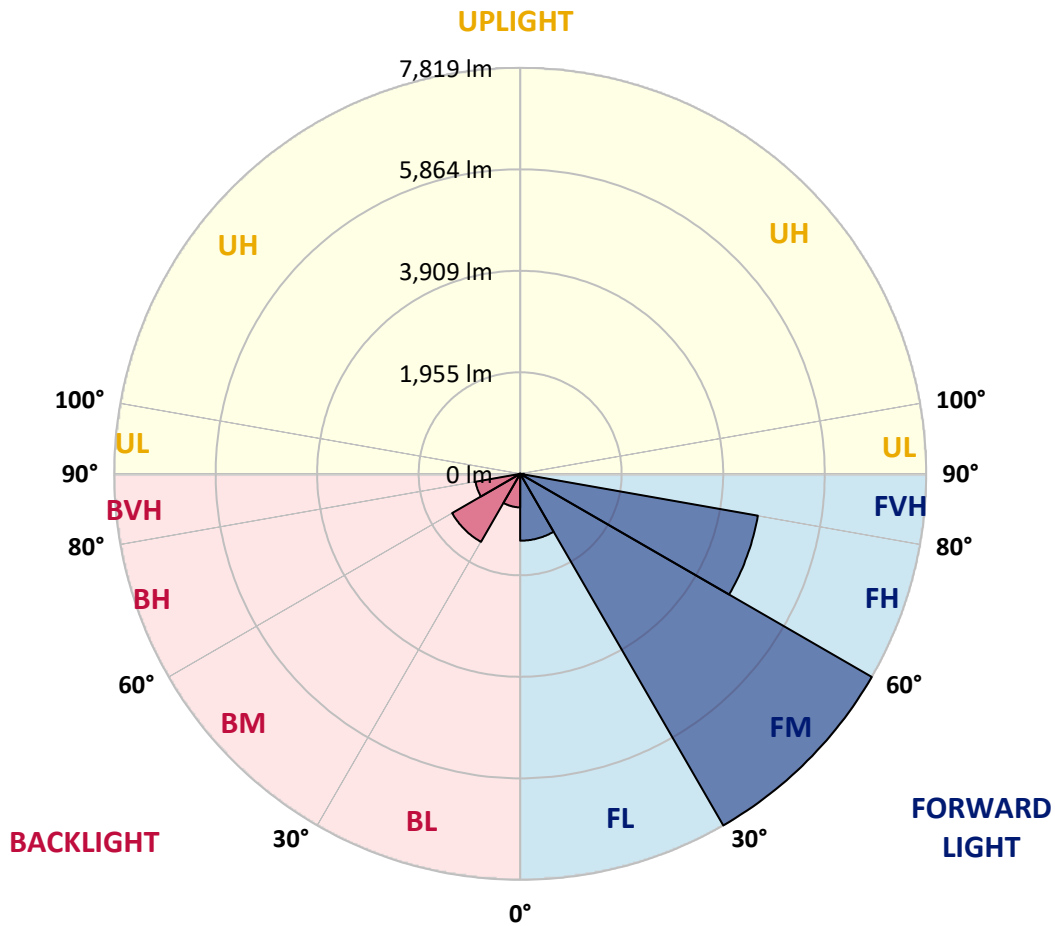
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1287.8	7.6			
FM (30°-60°)	7818.6	46.3			
FH (60°-80°)	4647.6	27.5			G2/5000
FVH (80°-90°)	69.1	0.4			G1/100
BL (0°-30°)	645.8	3.8	B2/1000		
BM (30°-60°)	1513.3	9.0	B2/2500		
BH (60°-80°)	872.8	5.2	B2/1000		G2/1000
BVH (80°-90°)	26.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6
2.5°	2955.8	2972.8	2963.1	2958.3	2949.7	2937.6	2927.9	2897.5	2865.9	2845.2
5°	3015.4	3032.4	3031.2	3036.0	3042.1	3045.8	3043.3	3009.3	2964.3	2929.1
7.5°	2964.3	2983.8	2999.6	3023.9	3066.4	3111.4	3133.3	3126.0	3079.8	3031.2
10°	2819.7	2840.4	2878.0	2935.2	3025.1	3122.3	3203.8	3241.4	3212.3	3158.8
12.5°	2554.7	2575.4	2649.5	2773.5	2924.2	3093.2	3248.7	3349.6	3356.9	3303.4
15°	2257.0	2277.6	2356.6	2512.2	2741.9	3012.9	3273.0	3463.9	3528.3	3482.1
17.5°	2072.2	2090.5	2150.0	2275.2	2514.6	2852.5	3264.5	3585.4	3732.5	3696.0
20°	2016.3	2032.1	2060.1	2147.6	2346.9	2686.0	3208.6	3699.6	3952.4	3931.8
22.5°	2075.9	2090.5	2099.0	2137.9	2263.1	2576.6	3138.1	3816.3	4207.7	4210.1
25°	2213.2	2227.8	2218.1	2242.4	2297.1	2542.6	3111.4	3953.7	4528.5	4555.3
27.5°	2439.3	2440.5	2417.4	2416.2	2424.7	2593.6	3139.4	4100.7	4933.3	4983.1
30°	2892.6	2874.4	2785.7	2689.7	2645.9	2746.8	3217.1	4274.5	5410.9	5499.6
32.5°	3591.5	3564.7	3401.9	3172.2	2941.2	2993.5	3356.9	4472.6	5931.1	6091.5
35°	4349.9	4342.6	4172.4	3830.9	3427.4	3344.8	3584.2	4732.7	6498.7	6753.9
37.5°	5054.8	5051.2	4953.9	4551.6	4060.6	3834.6	3948.8	5073.0	7106.4	7475.9
40°	5699.0	5709.9	5612.7	5252.9	4758.2	4462.9	4444.7	5493.6	7782.1	8262.2
42.5°	6255.6	6267.8	6169.3	5903.1	5447.4	5158.1	5053.6	6008.9	8442.1	9106.9
45°	6633.6	6708.9	6694.4	6481.7	6154.7	5854.5	5785.3	6655.5	9194.4	10002.7
47.5°	6740.5	6809.8	6919.2	6948.4	6749.1	6453.7	6536.4	7434.5	9955.3	10899.6
50°	6476.8	6541.2	6768.5	7071.1	7209.7	7118.5	7266.8	8269.5	10734.3	11794.1
52.5°	5956.6	6022.3	6309.1	6787.9	7353.1	7639.9	7999.7	9092.3	11489.1	12641.3
55°	5204.3	5273.6	5641.8	6183.9	7079.6	7855.1	8611.0	9913.9	12180.6	13403.3
57.5°	4180.9	4232.0	4614.8	5373.2	6391.7	7641.2	9061.9	10810.9	12832.1	14152.0
60°	2724.9	2769.9	3214.7	4060.6	5251.7	6926.5	9151.9	11811.2	13697.4	15125.5
62.5°	1812.1	1842.5	2106.3	2727.3	3698.4	5554.3	8625.6	12609.7	14966.3	16819.8
65°	1243.3	1273.7	1537.5	1970.1	2389.5	3674.1	7112.5	12503.9	16116.1	18165.2
67.5°	887.2	912.8	1136.4	1544.8	1729.5	2134.2	4821.4	11152.4	15950.8	18216.3
70°	635.6	650.2	835.0	1203.2	1374.6	1282.2	2681.1	8529.6	13966.0	16821.0
72.5°	444.8	449.7	579.7	916.4	1107.2	935.8	1276.2	5686.8	10562.9	13202.8
75°	301.4	307.5	390.1	672.1	888.4	714.6	675.8	3049.4	6200.9	7308.1
77.5°	184.7	187.2	251.6	459.4	664.8	544.5	435.1	1292.0	2399.2	2355.4
80°	104.5	104.5	160.4	285.6	453.3	351.2	305.1	549.4	759.6	667.2
82.5°	58.3	59.6	116.7	177.4	300.2	207.8	167.7	254.0	328.2	290.5
85°	24.3	26.7	71.7	83.9	143.4	103.3	68.1	107.0	121.5	108.2
87.5°	2.4	3.6	21.9	15.8	17.0	20.7	9.7	20.7	17.0	17.0
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°
2796.6	0°	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6
2837.9	2.5°	2814.8	2796.6	2750.4	2696.9	2626.5	2592.4	2546.2	2514.6	2487.9	2490.3
2908.4	5°	2869.5	2823.3	2720.0	2591.2	2430.8	2316.5	2195.0	2111.1	2043.1	2028.5
3005.7	7.5°	2944.9	2872.0	2690.9	2458.7	2187.7	1982.3	1798.8	1680.9	1597.0	1570.3
3123.6	10°	3042.1	2936.4	2653.2	2292.2	1902.1	1640.8	1443.9	1351.5	1294.4	1274.9
3262.1	12.5°	3155.2	3010.5	2603.4	2089.3	1608.0	1356.4	1231.2	1185.0	1166.8	1160.7
3432.3	15°	3297.4	3102.9	2528.0	1848.6	1358.8	1182.6	1129.1	1123.0	1125.5	1123.0
3636.4	17.5°	3466.3	3203.8	2405.3	1600.7	1191.1	1093.9	1074.4	1079.3	1085.3	1084.1
3864.9	20°	3651.0	3303.4	2248.5	1380.7	1076.8	1030.6	1019.7	1024.6	1029.4	1027.0
4128.7	22.5°	3861.3	3410.4	2074.7	1209.3	1000.3	972.3	960.2	961.4	961.4	956.5
4462.9	25°	4112.9	3528.3	1892.4	1087.8	941.9	920.0	905.5	900.6	893.3	878.7
4868.8	27.5°	4413.1	3653.5	1717.3	1002.7	895.7	875.1	858.1	845.9	827.7	803.4
5356.2	30°	4751.0	3805.4	1569.1	949.2	859.3	838.6	819.2	800.9	774.2	743.8
5916.5	32.5°	5148.4	3968.2	1460.9	914.0	826.5	804.6	781.5	759.6	730.4	700.1
6546.1	35°	5622.4	4165.1	1397.7	889.7	800.9	771.8	746.2	721.9	700.1	673.3
7230.4	37.5°	6136.5	4374.2	1378.3	877.5	783.9	739.0	709.8	692.8	690.3	674.5
7970.5	40°	6699.2	4622.1	1392.8	870.2	765.7	707.4	675.8	672.1	678.2	650.2
8761.7	42.5°	7294.8	4916.2	1417.1	861.7	740.2	675.8	645.4	645.4	640.5	601.6
9597.9	45°	7938.9	5255.3	1441.5	841.0	709.8	644.2	621.1	612.6	591.9	554.2
10439.0	47.5°	8587.9	5600.5	1459.7	803.4	673.3	617.4	596.8	577.3	546.9	512.9
11264.2	50°	9204.1	5910.4	1440.2	747.5	632.0	591.9	570.0	543.3	510.5	487.4
12045.7	52.5°	9754.7	6179.0	1357.6	681.8	588.2	565.2	545.7	517.8	491.0	466.7
12750.6	55°	10233.6	6396.6	1211.7	619.8	549.4	542.1	522.6	487.4	450.9	430.2
13449.5	57.5°	10693.0	6561.9	1029.4	568.8	514.1	516.5	487.4	455.8	421.7	399.9
14391.4	60°	11304.3	6783.1	844.7	521.4	476.4	483.7	452.1	429.0	386.5	358.5
16006.7	62.5°	12281.5	7127.0	670.9	463.1	432.7	435.1	421.7	393.8	342.7	309.9
17203.8	65°	13056.9	7000.6	528.7	399.9	382.8	386.5	386.5	356.1	301.4	263.7
17268.2	67.5°	12969.4	5994.3	421.7	337.9	335.4	337.9	346.4	320.9	267.4	237.0
15953.2	70°	11947.3	4768.0	337.9	280.8	291.7	285.6	309.9	292.9	240.6	210.3
12367.8	72.5°	9748.6	3434.7	257.7	232.1	223.6	233.4	279.5	263.7	200.5	166.5
6550.9	75°	5696.5	1832.8	192.0	183.5	161.6	194.5	247.9	224.8	153.1	122.8
2007.8	77.5°	1854.7	639.3	141.0	134.9	120.3	156.8	211.5	189.6	125.2	97.2
588.2	80°	497.1	193.2	96.0	88.7	77.8	116.7	167.7	150.7	89.9	63.2
252.8	82.5°	199.3	81.4	55.9	49.8	42.5	80.2	132.5	121.5	66.8	40.1
79.0	85°	64.4	26.7	20.7	15.8	19.4	49.8	79.0	82.6	47.4	20.7
12.2	87.5°	8.5	3.6	3.6	4.9	3.6	8.5	24.3	23.1	13.4	2.4
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>
2796.6
2466.0
1995.7
1543.5
1260.4
1157.1
1121.8
1081.7
1025.8
954.1
876.3
800.9
741.4
701.3
670.9
673.3
651.4
601.6
553.0
511.7
483.7
464.3
427.8
397.4
354.9
307.5
260.1
232.1
206.6
162.9
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93.6
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