

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: P957296

Luminaire Tested: **GALN-SB9C-940-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957296
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-SB9C-940-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 615mA 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: 41852 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

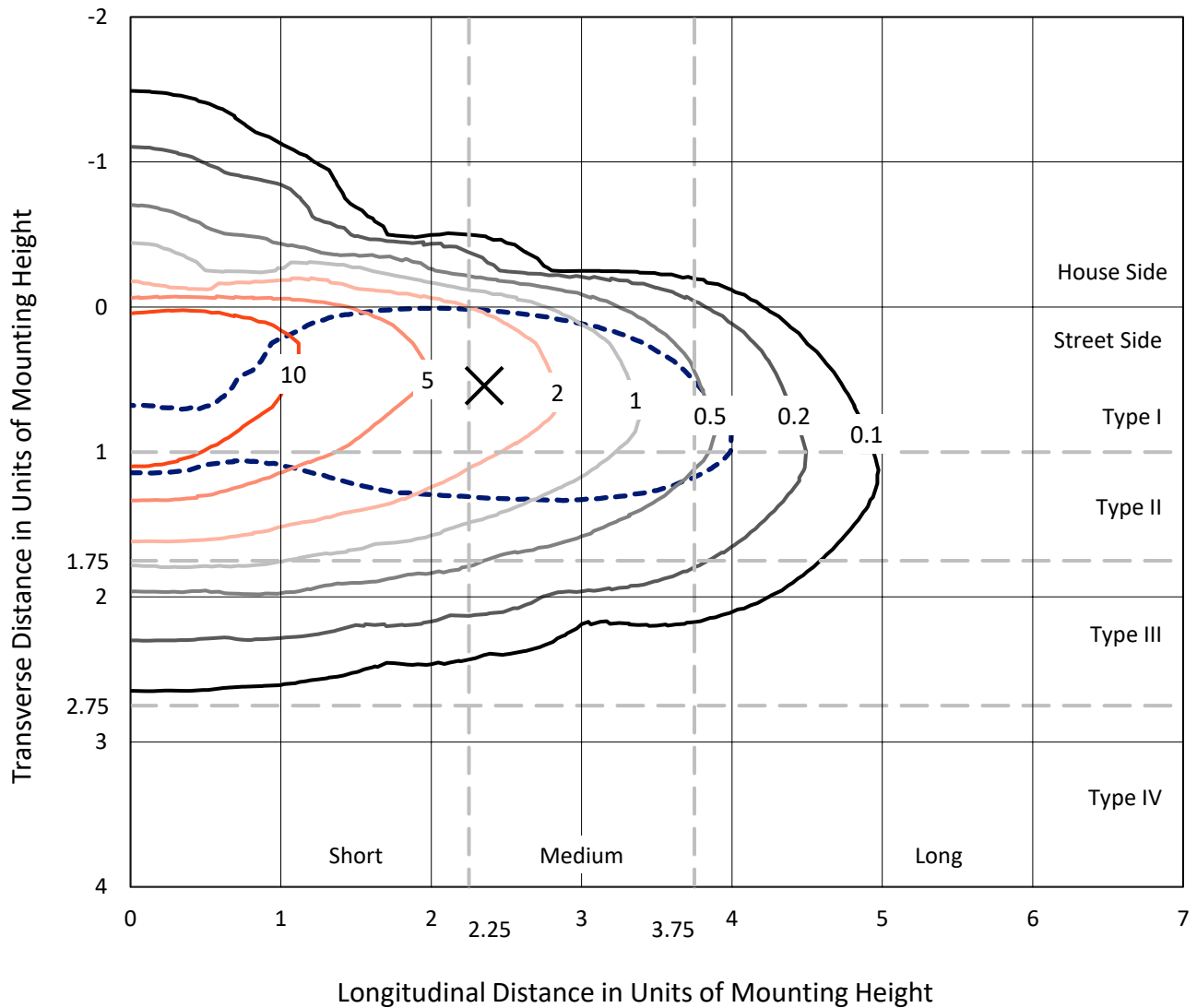
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

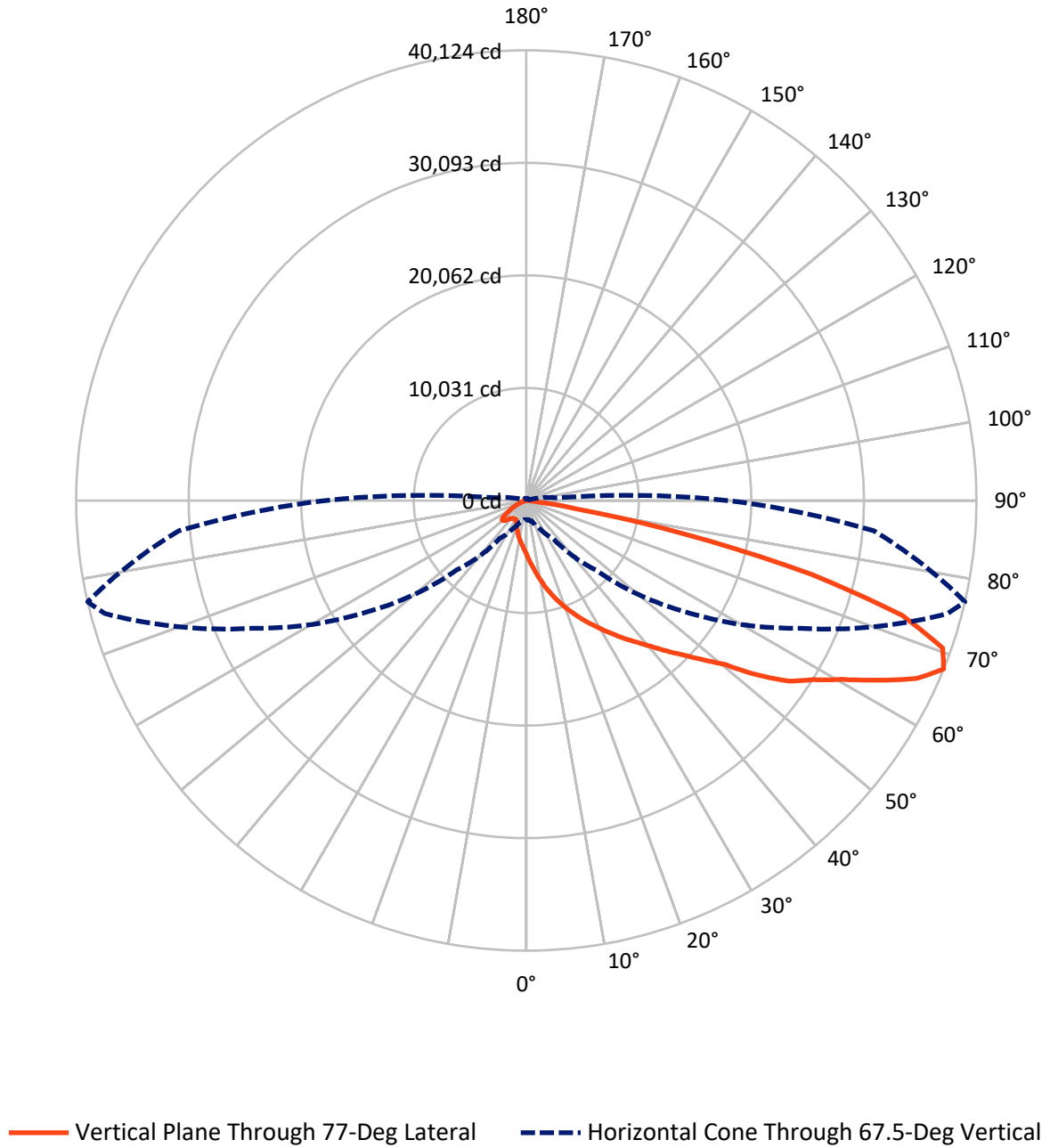
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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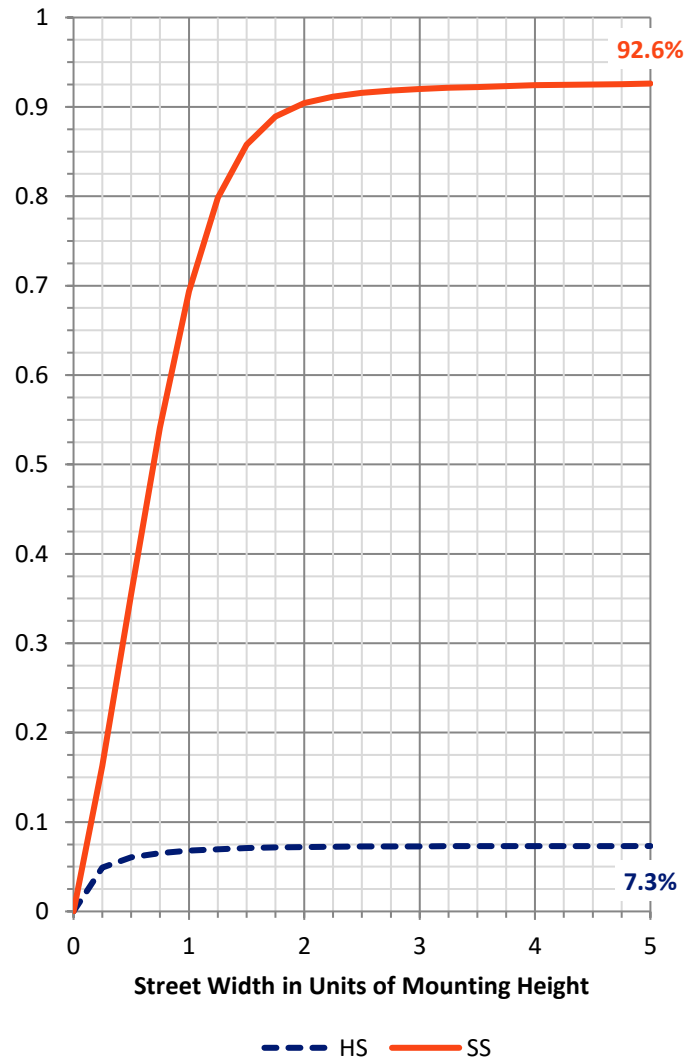
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3079.1	0.0	3079.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	38772.9	0.0	38772.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	41852.0	0.0	41852.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.6	1.2
10°-20°	1725.0	4.1
20°-30°	3328.7	8.0
30°-40°	5778.9	13.8
40°-50°	8390.6	20.0
50°-60°	9635.6	23.0
60°-70°	8365.5	20.0
70°-80°	3940.2	9.4
80°-90°	194.9	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°	41852.0	100.0
0°-180°	41852.0	100.0

Coefficient of Utilization



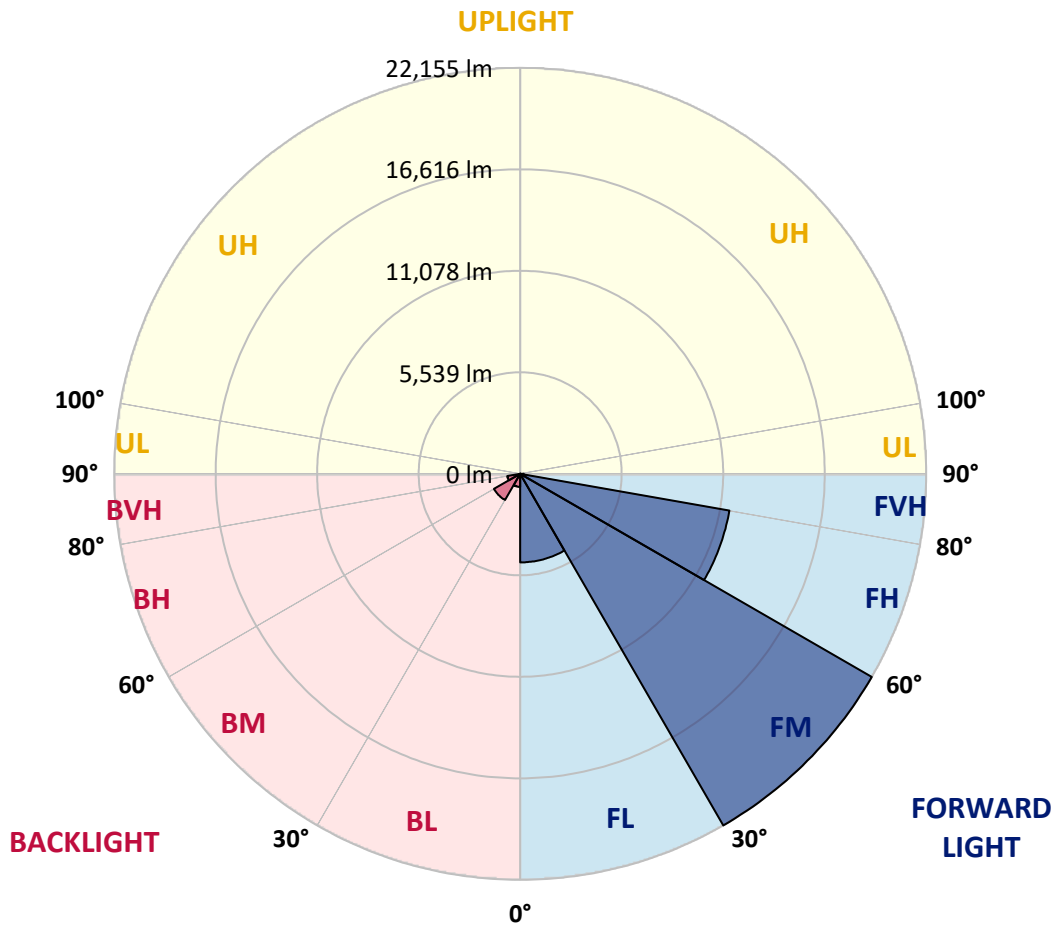
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4833.5	11.5			
FM (30°-60°)	22155.3	52.9			
FH (60°-80°)	11592.9	27.7			G4/12000
FVH (80°-90°)	191.3	0.5			G2/225
BL (0°-30°)	712.9	1.7	B2/1000		
BM (30°-60°)	1649.8	3.9	B2/2500		
BH (60°-80°)	712.8	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4826.2	4826.2	4826.2	4826.2	4826.2	4826.2	4826.2	4826.2	4826.2	4826.2
2.5°	6681.8	6723.3	6663.6	6549.2	6377.7	6265.9	5993.1	5735.8	5449.9	5358.9
5°	8144.9	8181.3	8113.8	7989.0	7760.3	7542.0	7183.3	6645.4	6086.6	5907.3
7.5°	9228.7	9249.5	9223.5	9109.1	8890.8	8643.9	8243.7	7607.0	6777.9	6580.4
10°	10008.4	10075.9	10068.1	10023.9	9878.4	9678.3	9252.1	8527.0	7552.4	7297.7
12.5°	10525.5	10600.9	10645.1	10743.8	10736.0	10608.7	10234.5	9467.8	8324.3	8025.4
15°	10676.3	10756.8	10925.8	11154.5	11357.2	11422.2	11159.7	10390.4	9174.1	8792.1
17.5°	10590.5	10715.3	10918.0	11279.2	11723.6	12017.3	11988.7	11281.8	9946.0	9509.4
20°	10780.2	10899.8	11058.3	11362.4	11879.6	12412.3	12625.4	12134.2	10712.7	10255.2
22.5°	11830.2	11809.4	11825.0	11874.4	12183.6	12711.2	13150.4	12908.7	11471.5	11003.7
25°	13493.5	13399.9	13241.4	12973.7	12895.7	13150.4	13607.8	13594.8	12272.0	11770.4
27.5°	15401.1	15385.5	15013.8	14369.3	14005.5	13906.7	14125.0	14262.7	13064.7	12529.3
30°	17228.1	17269.7	16768.1	16050.8	15382.9	14995.6	14798.1	14896.9	13870.3	13347.9
32.5°	18818.6	18862.8	18317.0	17477.6	16651.1	16183.3	15767.5	15523.2	14748.7	14179.6
35°	20162.2	20206.4	19580.1	18652.3	17771.3	17347.6	16877.2	16209.3	15632.4	15102.2
37.5°	21362.9	21349.9	20510.5	19574.9	18709.5	18374.2	18127.3	17054.0	16542.0	16030.0
40°	22072.4	22127.0	21409.7	20377.9	19538.5	19294.2	19278.6	18101.3	17591.9	17095.5
42.5°	22280.3	22376.5	21856.7	21009.5	20248.0	19982.9	20390.9	19234.4	18813.4	18330.0
45°	21906.1	21999.7	21763.2	21175.8	20731.4	20559.9	21347.3	20409.1	20118.1	19639.9
47.5°	20814.6	20931.5	20988.7	20863.9	20858.7	21032.9	22205.0	21646.2	21667.0	21178.4
50°	18701.7	18899.2	19424.2	19866.0	20549.5	21407.1	23039.2	22987.2	23413.5	22992.4
52.5°	14860.5	15141.2	16950.0	18158.5	19694.4	21336.9	23956.6	25139.1	26477.6	25861.6
55°	11941.9	11941.9	13412.9	15673.9	18025.9	20874.3	24356.9	26537.3	28564.5	28418.9
57.5°	9735.5	9852.4	10790.6	12789.2	15611.6	19772.4	24603.8	27415.8	30246.0	30139.4
60°	6008.6	6260.7	8033.2	10005.8	12864.5	17810.2	24447.8	28304.6	32286.1	32371.9
62.5°	3383.8	3477.3	4267.4	7198.9	10003.2	15172.4	23254.9	28801.0	34895.4	35259.2
65°	2336.4	2383.2	2687.3	4480.5	6933.9	12079.7	20923.7	28491.7	37509.9	38245.4
67.5°	1697.1	1720.5	1910.2	2736.6	4114.1	8758.3	17269.7	26932.4	38895.1	40124.4
70°	1304.6	1320.2	1458.0	1798.4	2430.0	5405.7	12542.3	23831.9	37891.9	39360.3
72.5°	1060.3	1075.9	1182.5	1330.6	1611.3	3196.6	7601.8	19354.0	33463.4	35048.7
75°	894.0	914.8	1011.0	1107.1	1263.1	2053.1	3565.7	13477.9	25165.1	26204.7
77.5°	496.4	457.4	821.3	917.4	1065.5	1299.4	1668.5	7931.8	14093.8	14382.3
80°	309.3	319.7	652.3	738.1	818.7	654.9	764.1	3053.7	4885.9	4641.6
82.5°	18.2	41.6	501.6	532.8	561.4	280.7	288.5	1037.0	1177.3	1081.1
85°	0.0	0.0	228.7	184.5	194.9	80.6	83.2	241.7	158.5	171.5
87.5°	0.0	0.0	0.0	5.2	0.0	7.8	15.6	20.8	7.8	10.4
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°
4826.2	0°	4826.2	4826.2	4826.2	4826.2	4826.2	4826.2	4826.2	4826.2	4826.2	4826.2
5073.0	2.5°	4891.1	4709.2	4340.2	3978.9	3685.2	3412.4	3217.4	3032.9	2939.4	2934.2
5400.5	5°	5039.3	4657.2	3919.1	3266.8	2741.8	2320.8	2047.9	1853.0	1754.3	1720.5
5803.3	7.5°	5247.2	4672.8	3550.1	2643.1	2024.5	1663.3	1507.4	1445.0	1424.2	1400.8
6258.1	10°	5509.7	4709.2	3220.0	2128.5	1595.7	1413.8	1351.4	1325.4	1309.8	1294.3
6770.1	12.5°	5803.3	4743.0	2892.6	1767.2	1403.4	1309.8	1265.7	1234.5	1213.7	1195.5
7295.1	15°	6089.2	4763.8	2552.1	1515.2	1304.6	1229.3	1182.5	1148.7	1120.1	1099.3
7809.7	17.5°	6372.5	4792.4	2232.5	1364.4	1224.1	1148.7	1101.9	1060.3	1037.0	1013.6
8350.3	20°	6687.0	4787.2	1931.0	1257.9	1143.5	1068.1	1018.8	979.8	956.4	930.4
8922.0	22.5°	6978.0	4761.2	1665.9	1166.9	1060.3	987.6	933.0	894.0	870.6	849.8
9506.8	25°	7313.3	4740.4	1445.0	1083.7	982.4	909.6	849.8	813.5	787.5	769.3
10094.1	27.5°	7635.6	4709.2	1283.9	1008.4	907.0	836.8	779.7	738.1	714.7	701.7
10699.7	30°	7952.6	4701.4	1224.1	935.6	839.4	769.3	712.1	673.1	654.9	649.7
11365.0	32.5°	8334.7	4722.2	1250.1	909.6	777.1	706.9	652.3	623.7	605.5	605.5
12105.7	35°	8742.7	4717.0	1289.1	933.0	735.5	644.5	602.9	584.8	566.6	566.6
12926.9	37.5°	9254.7	4724.8	1320.2	972.0	719.9	592.5	569.2	545.8	535.4	535.4
13826.1	40°	10018.7	4982.1	1304.6	1005.8	714.7	556.2	509.4	501.6	493.8	493.8
14842.3	42.5°	10954.3	5540.8	1325.4	1008.4	712.1	530.2	467.8	483.4	465.2	462.6
15988.4	45°	11978.3	6151.6	1458.0	953.8	709.5	517.2	447.0	465.2	436.6	436.6
17316.4	47.5°	12994.5	6757.1	1593.1	875.8	701.7	514.6	428.8	418.4	410.6	413.2
19047.3	50°	14395.3	7250.9	1645.1	769.3	683.5	509.4	395.0	397.6	392.4	397.6
21487.7	52.5°	15920.8	7354.9	1582.7	649.7	631.5	493.8	371.6	382.0	379.4	384.6
23205.5	55°	16872.0	7243.1	1307.2	540.6	551.0	431.4	348.3	369.0	369.0	369.0
24884.4	57.5°	17854.4	6767.5	927.8	439.2	457.4	353.4	327.5	356.0	353.4	350.9
26906.4	60°	18561.3	5998.3	610.7	361.2	363.8	291.1	304.1	335.3	332.7	319.7
28990.7	62.5°	19088.9	5148.4	392.4	306.7	278.1	262.5	278.1	304.1	293.7	265.1
30757.9	65°	19029.1	3971.1	301.5	262.5	228.7	228.7	241.7	265.1	233.9	187.1
31095.8	67.5°	17919.4	2687.3	249.5	220.9	192.3	189.7	200.1	220.9	200.1	158.5
29364.9	70°	15936.4	1756.9	200.1	171.5	153.3	140.3	161.1	189.7	168.9	127.3
24998.8	72.5°	12934.7	1070.7	150.7	124.7	111.8	91.0	127.3	155.9	135.1	93.6
17384.0	75°	8368.4	545.8	104.0	80.6	59.8	54.6	93.6	117.0	93.6	57.2
7713.5	77.5°	3201.8	228.7	57.2	36.4	31.2	26.0	52.0	70.2	39.0	13.0
1494.4	80°	615.9	96.2	28.6	18.2	15.6	10.4	7.8	5.2	0.0	0.0
265.1	82.5°	106.6	31.2	10.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0
52.0	85°	36.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.2	87.5°	13.0	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

<u>180°</u>
4826.2
2929.0
1715.3
1395.6
1289.1
1190.3
1096.7
1011.0
927.8
847.2
766.7
701.7
647.1
605.5
566.6
535.4
493.8
460.0
436.6
413.2
397.6
384.6
369.0
350.9
319.7
259.9
181.9
153.3
122.1
88.4
49.4
10.4
0.0
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