

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: P951479

Luminaire Tested: **GALN-SB5C-840-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951479
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-SB5C-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 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: 30638 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

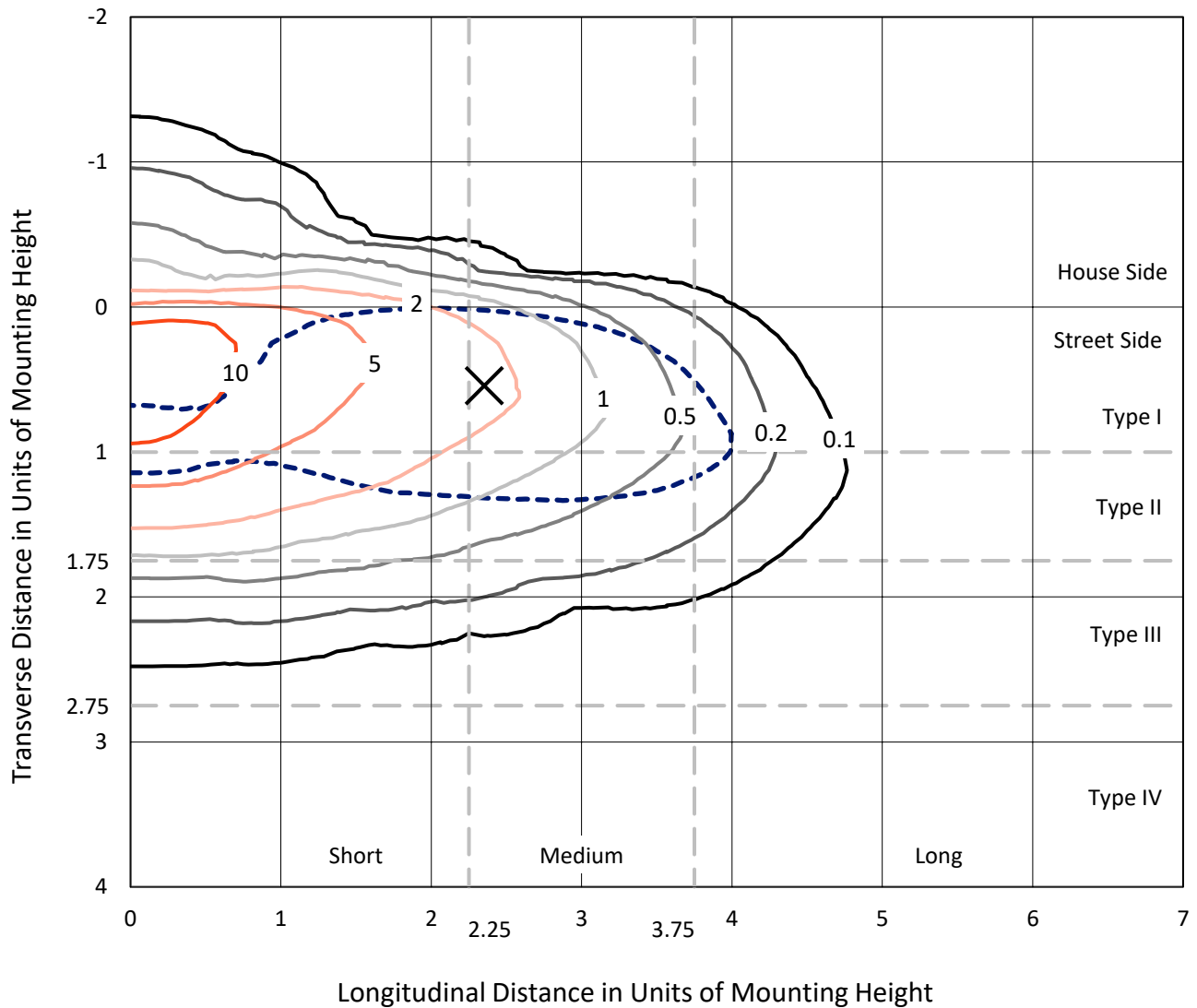
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

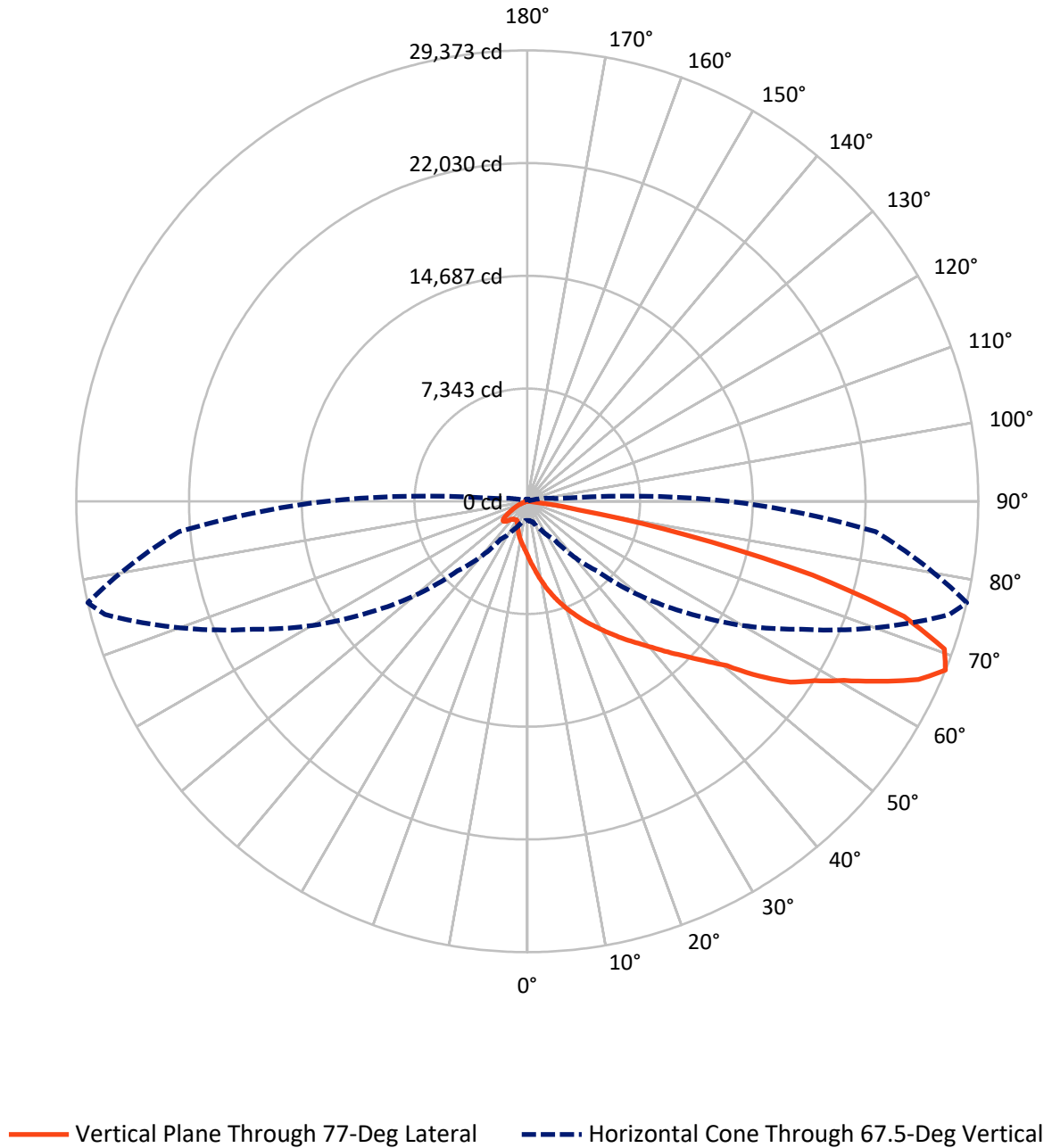
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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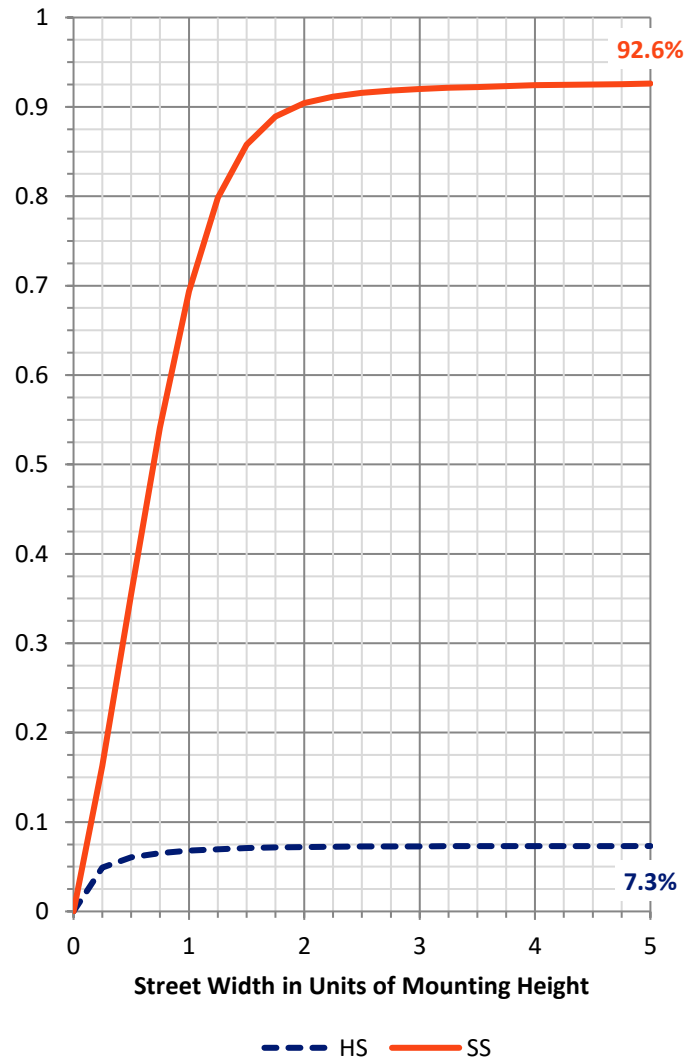
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2254.1	0.0	2254.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	28383.9	0.0	28383.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	30638.0	0.0	30638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.6	1.2
10°-20°	1262.8	4.1
20°-30°	2436.8	8.0
30°-40°	4230.5	13.8
40°-50°	6142.4	20.0
50°-60°	7053.8	23.0
60°-70°	6124.0	20.0
70°-80°	2884.5	9.4
80°-90°	142.6	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°	30638.0	100.0
0°-180°	30638.0	100.0

Coefficient of Utilization



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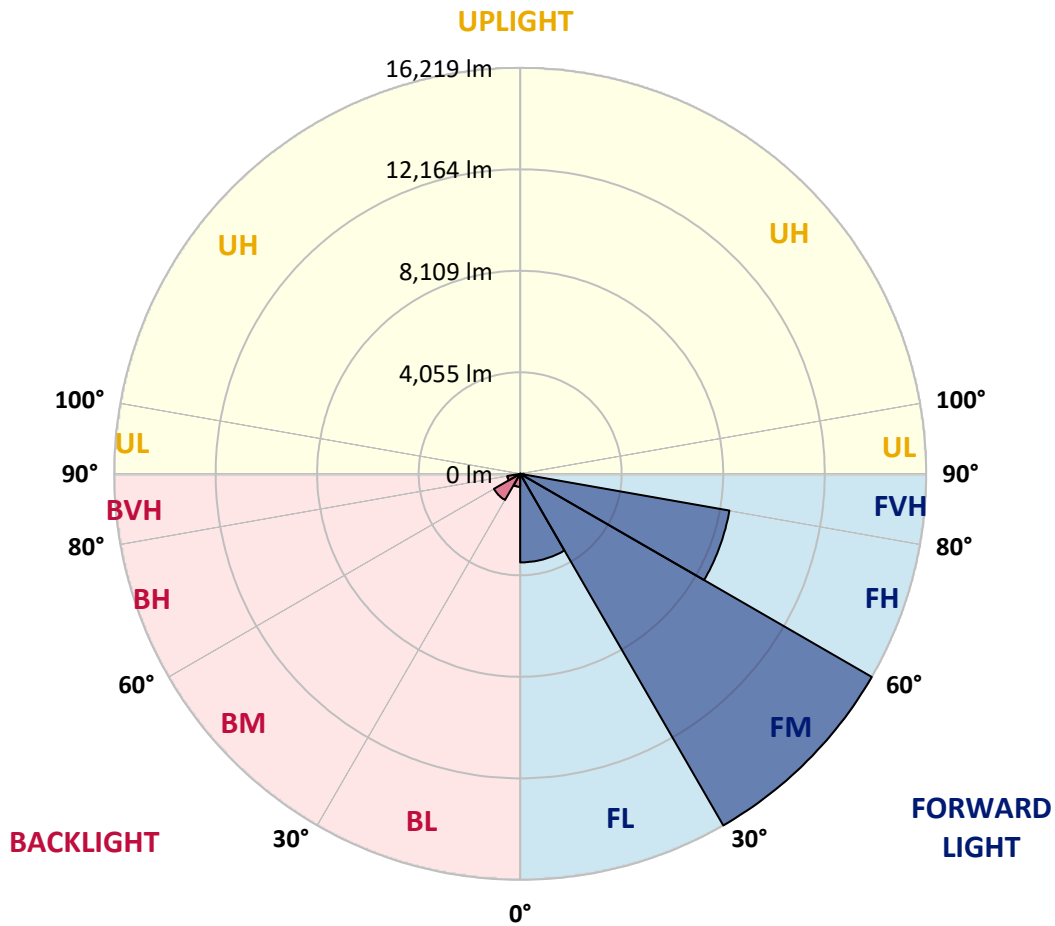
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3538.4	11.5			
FM (30°-60°)	16218.9	52.9			
FH (60°-80°)	8486.6	27.7			G4/12000
FVH (80°-90°)	140.0	0.5			G2/225
BL (0°-30°)	521.8	1.7	B2/1000		
BM (30°-60°)	1207.8	3.9	B2/2500		
BH (60°-80°)	521.8	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.6	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°	3533.0	3533.0	3533.0	3533.0	3533.0	3533.0	3533.0	3533.0	3533.0	3533.0
2.5°	4891.4	4921.9	4878.1	4794.4	4668.8	4587.0	4387.3	4198.9	3989.6	3923.0
5°	5962.6	5989.2	5939.7	5848.4	5681.0	5521.2	5258.6	4864.8	4455.7	4324.5
7.5°	6755.9	6771.1	6752.1	6668.4	6508.6	6327.8	6034.8	5568.7	4961.8	4817.2
10°	7326.7	7376.1	7370.4	7338.1	7231.5	7085.0	6773.0	6242.2	5528.8	5342.3
12.5°	7705.3	7760.4	7792.8	7865.1	7859.4	7766.2	7492.2	6930.9	6093.8	5875.0
15°	7815.6	7874.6	7998.3	8165.7	8314.1	8361.7	8169.5	7606.3	6716.0	6436.3
17.5°	7752.8	7844.2	7992.6	8257.0	8582.3	8797.3	8776.4	8258.9	7281.0	6961.4
20°	7891.7	7979.2	8095.3	8317.9	8696.5	9086.5	9242.5	8882.9	7842.3	7507.4
22.5°	8660.3	8645.1	8656.5	8692.7	8919.1	9305.3	9626.8	9449.9	8397.8	8055.3
25°	9878.0	9809.5	9693.4	9497.5	9440.4	9626.8	9961.7	9952.2	8983.8	8616.6
27.5°	11274.4	11263.0	10991.0	10519.1	10252.8	10180.5	10340.3	10441.1	9564.1	9172.1
30°	12611.9	12642.4	12275.2	11750.1	11261.1	10977.6	10833.0	10905.3	10153.8	9771.4
32.5°	13776.3	13808.6	13409.1	12794.6	12189.6	11847.1	11542.7	11363.9	10796.9	10380.2
35°	14759.9	14792.2	14333.7	13654.5	13009.6	12699.4	12355.1	11866.1	11443.8	11055.6
37.5°	15638.9	15629.3	15014.8	14329.9	13696.4	13450.9	13270.2	12484.4	12109.6	11734.9
40°	16158.2	16198.2	15673.1	14917.8	14303.3	14124.4	14113.0	13251.2	12878.3	12514.9
42.5°	16310.5	16380.8	16000.3	15380.1	14822.7	14628.6	14927.3	14080.7	13772.5	13418.6
45°	16036.5	16105.0	15931.8	15501.9	15176.5	15051.0	15627.4	14940.6	14727.5	14377.5
47.5°	15237.4	15323.0	15364.9	15273.6	15269.8	15397.2	16255.3	15846.2	15861.5	15503.8
50°	13690.7	13835.3	14219.6	14543.0	15043.4	15671.2	16866.0	16827.9	17140.0	16831.7
52.5°	10878.7	11084.2	12408.3	13293.0	14417.4	15619.8	17537.6	18403.2	19383.0	18932.1
55°	8742.2	8742.2	9819.0	11474.2	13196.0	15281.2	17830.6	19426.8	20910.8	20804.2
57.5°	7126.9	7212.5	7899.3	9362.4	11428.5	14474.5	18011.3	20069.9	22141.7	22063.7
60°	4398.7	4583.2	5880.7	7324.8	9417.6	13038.1	17897.2	20720.5	23635.2	23698.0
62.5°	2477.1	2545.6	3124.0	5270.0	7322.9	11107.0	17023.9	21083.9	25545.4	25811.7
65°	1710.4	1744.6	1967.2	3280.0	5076.0	8843.0	15317.3	20857.5	27459.3	27997.7
67.5°	1242.4	1259.5	1398.4	2003.4	3011.7	6411.6	12642.4	19716.0	28473.4	29373.3
70°	955.1	966.5	1067.3	1316.6	1778.9	3957.3	9181.6	17446.3	27739.0	28813.9
72.5°	776.2	787.7	865.7	974.1	1179.6	2340.1	5564.9	14168.2	24497.1	25657.6
75°	654.5	669.7	740.1	810.5	924.6	1503.0	2610.3	9866.6	18422.3	19183.3
77.5°	363.4	334.8	601.2	671.6	780.0	951.3	1221.4	5806.5	10317.5	10528.6
80°	226.4	234.0	477.5	540.3	599.3	479.4	559.3	2235.5	3576.8	3397.9
82.5°	13.3	30.4	367.2	390.0	410.9	205.5	211.2	759.1	861.8	791.5
85°	0.0	0.0	167.4	135.1	142.7	59.0	60.9	176.9	116.1	125.6
87.5°	0.0	0.0	0.0	3.8	0.0	5.7	11.4	15.2	5.7	7.6
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°
3533.0	0°	3533.0	3533.0	3533.0	3533.0	3533.0	3533.0	3533.0	3533.0	3533.0	3533.0
3713.8	2.5°	3580.6	3447.4	3177.2	2912.8	2697.8	2498.0	2355.3	2220.3	2151.8	2148.0
3953.5	5°	3689.0	3409.3	2869.0	2391.5	2007.2	1699.0	1499.2	1356.5	1284.2	1259.5
4248.4	7.5°	3841.2	3420.8	2598.9	1934.9	1482.1	1217.6	1103.5	1057.8	1042.6	1025.5
4581.3	10°	4033.4	3447.4	2357.2	1558.2	1168.2	1035.0	989.3	970.3	958.9	947.5
4956.1	12.5°	4248.4	3472.1	2117.5	1293.7	1027.4	958.9	926.5	903.7	888.5	875.2
5340.4	15°	4457.6	3487.4	1868.3	1109.2	955.1	899.9	865.7	840.9	820.0	804.8
5717.1	17.5°	4665.0	3508.3	1634.3	998.8	896.1	840.9	806.7	776.2	759.1	742.0
6112.9	20°	4895.2	3504.5	1413.6	920.8	837.1	781.9	745.8	717.3	700.1	681.1
6531.4	22.5°	5108.3	3485.4	1219.5	854.2	776.2	723.0	683.0	654.5	637.3	622.1
6959.5	25°	5353.7	3470.2	1057.8	793.4	719.2	665.9	622.1	595.5	576.5	563.2
7389.5	27.5°	5589.7	3447.4	939.9	738.2	664.0	612.6	570.8	540.3	523.2	513.7
7832.7	30°	5821.8	3441.7	896.1	684.9	614.5	563.2	521.3	492.8	479.4	475.6
8319.8	32.5°	6101.4	3456.9	915.1	665.9	568.9	517.5	477.5	456.6	443.3	443.3
8862.0	35°	6400.1	3453.1	943.7	683.0	538.4	471.8	441.4	428.1	414.8	414.8
9463.2	37.5°	6774.9	3458.8	966.5	711.5	527.0	433.8	416.7	399.5	391.9	391.9
10121.5	40°	7334.3	3647.2	955.1	736.3	523.2	407.1	372.9	367.2	361.5	361.5
10865.4	42.5°	8019.2	4056.2	970.3	738.2	521.3	388.1	342.5	353.9	340.6	338.7
11704.4	45°	8768.8	4503.3	1067.3	698.2	519.4	378.6	327.2	340.6	319.6	319.6
12676.6	47.5°	9512.7	4946.6	1166.3	641.2	513.7	376.7	313.9	306.3	300.6	302.5
13943.7	50°	10538.2	5308.1	1204.3	563.2	500.4	372.9	289.2	291.1	287.3	291.1
15730.2	52.5°	11654.9	5384.2	1158.6	475.6	462.3	361.5	272.1	279.7	277.8	281.6
16987.8	55°	12351.3	5302.4	957.0	395.7	403.3	315.8	254.9	270.2	270.2	270.2
18216.8	57.5°	13070.4	4954.2	679.2	321.5	334.8	258.7	239.7	260.6	258.7	256.8
19697.0	60°	13587.9	4391.1	447.1	264.5	266.4	213.1	222.6	245.4	243.5	234.0
21222.8	62.5°	13974.1	3768.9	287.3	224.5	203.6	192.2	203.6	222.6	215.0	194.1
22516.5	65°	13930.4	2907.1	220.7	192.2	167.4	167.4	176.9	194.1	171.2	137.0
22763.9	67.5°	13118.0	1967.2	182.6	161.7	140.8	138.9	146.5	161.7	146.5	116.1
21496.8	70°	11666.4	1286.1	146.5	125.6	112.2	102.7	118.0	138.9	123.7	93.2
18300.5	72.5°	9468.9	783.8	110.3	91.3	81.8	66.6	93.2	114.2	98.9	68.5
12726.1	75°	6126.2	399.5	76.1	59.0	43.8	40.0	68.5	85.6	68.5	41.9
5646.7	77.5°	2343.9	167.4	41.9	26.6	22.8	19.0	38.1	51.4	28.5	9.5
1094.0	80°	450.9	70.4	20.9	13.3	11.4	7.6	5.7	3.8	0.0	0.0
194.1	82.5°	78.0	22.8	7.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0
38.1	85°	26.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.3	87.5°	9.5	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>
3533.0
2144.2
1255.7
1021.7
943.7
871.4
802.9
740.1
679.2
620.2
561.2
513.7
473.7
443.3
414.8
391.9
361.5
336.7
319.6
302.5
291.1
281.6
270.2
256.8
234.0
190.3
133.2
112.2
89.4
64.7
36.1
7.6
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