

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: P949652

Luminaire Tested: **GALN-SB4B-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949652
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-SB4B-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 450mA 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: 17169 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

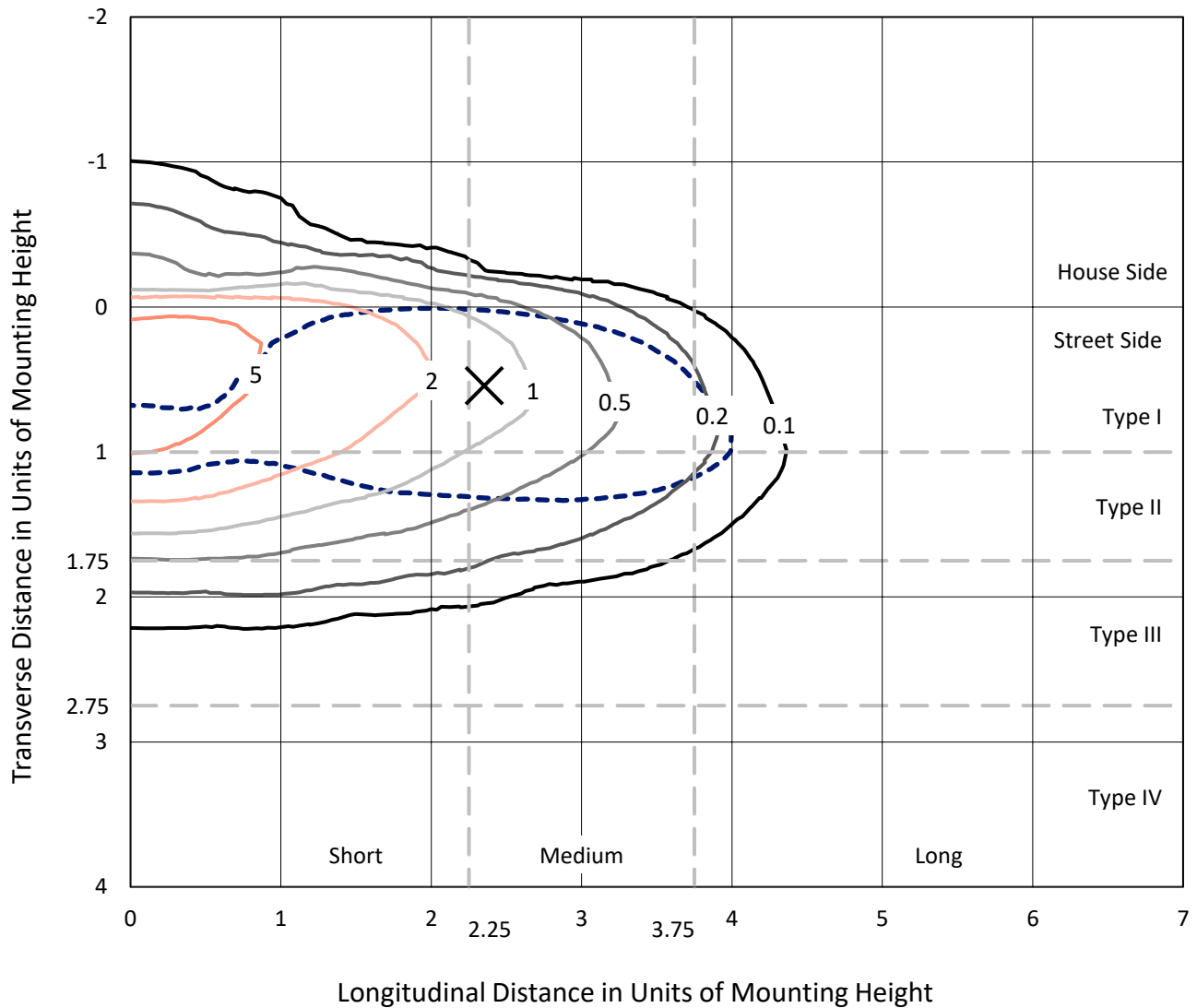
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

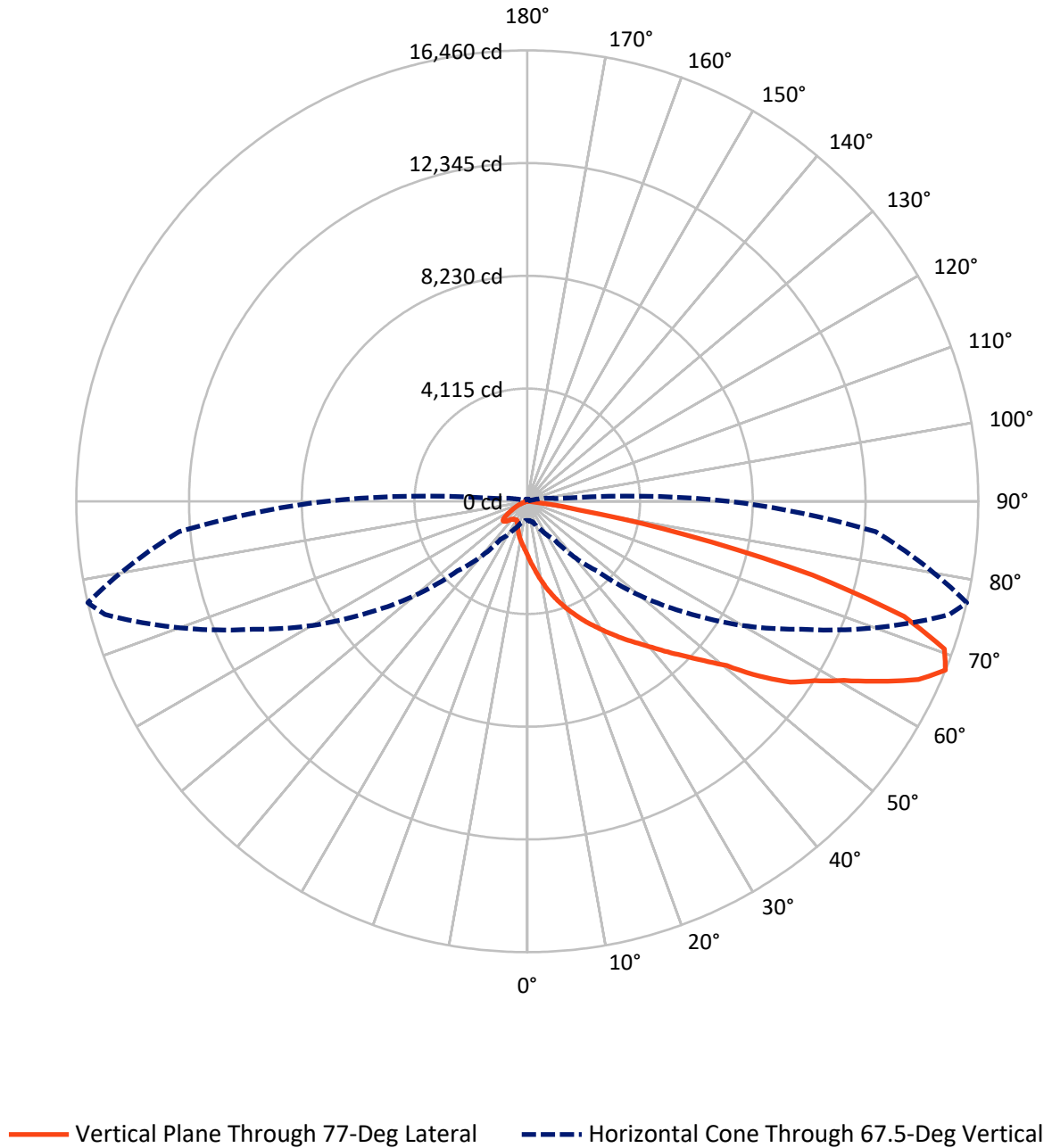
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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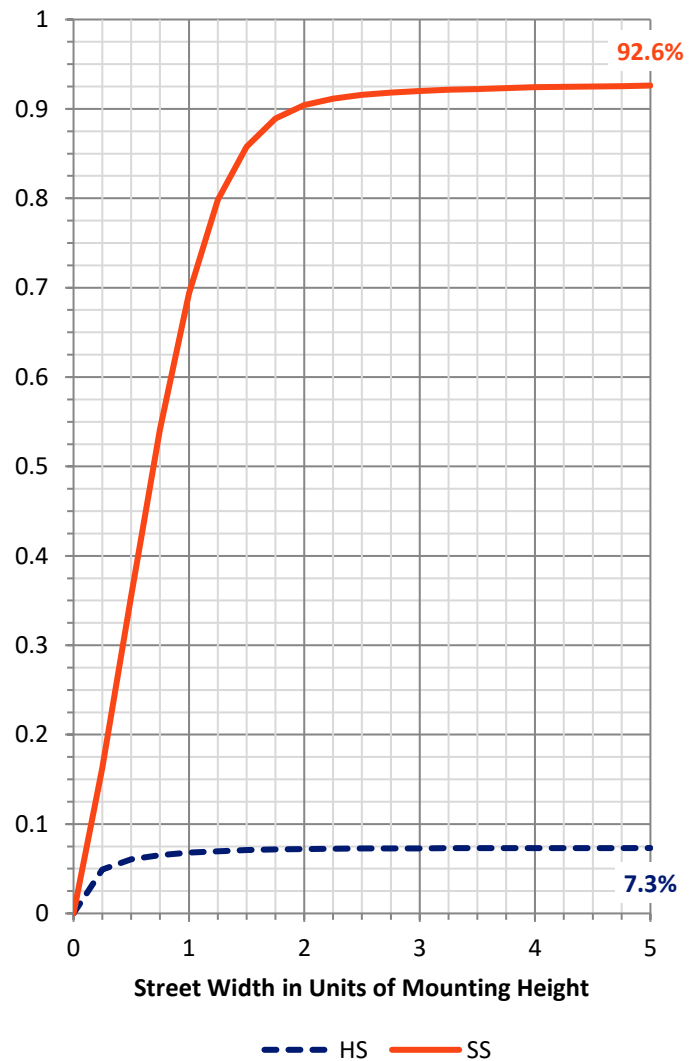
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1263.1	0.0	1263.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	15905.9	0.0	15905.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	17169.0	0.0	17169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.1	1.2
10°-20°	707.6	4.1
20°-30°	1365.6	8.0
30°-40°	2370.7	13.8
40°-50°	3442.1	20.0
50°-60°	3952.8	23.0
60°-70°	3431.8	20.0
70°-80°	1616.4	9.4
80°-90°	79.9	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°	17169.0	100.0
0°-180°	17169.0	100.0

Coefficient of Utilization



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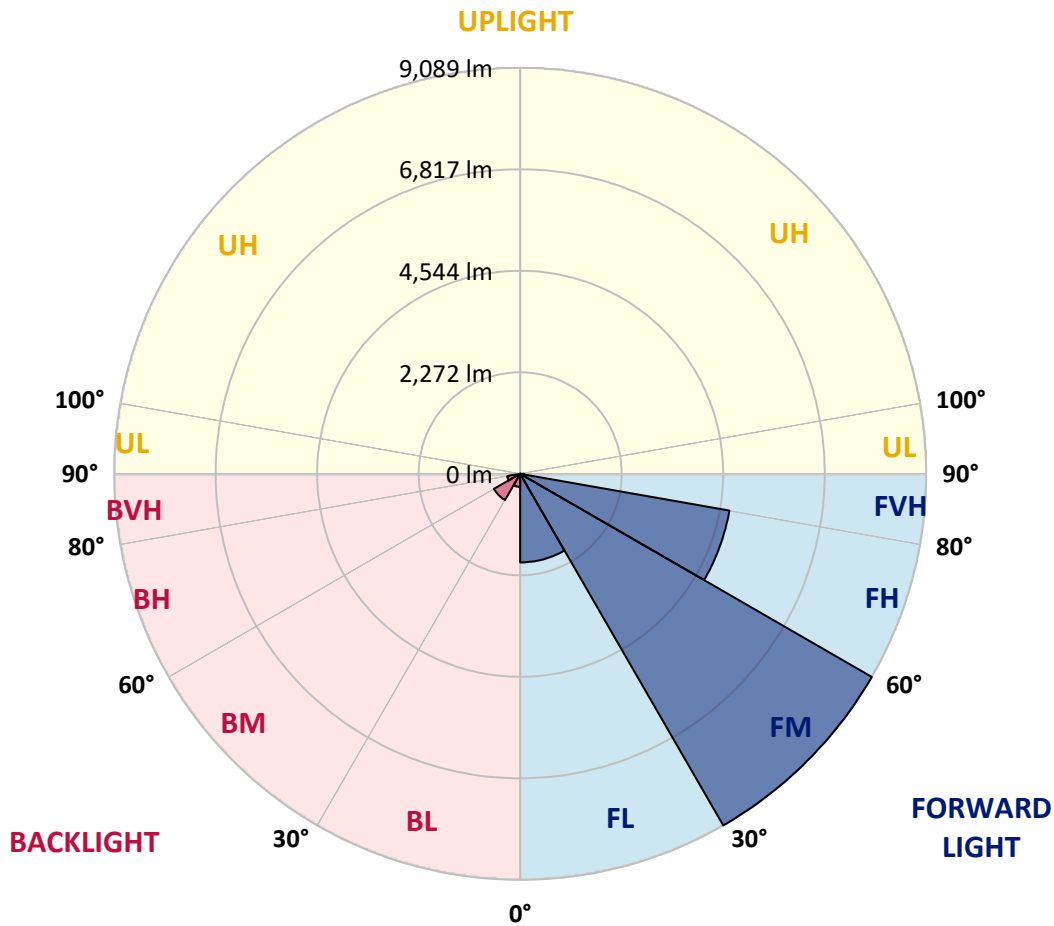
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1982.8	11.5			
FM (30°-60°)	9088.8	52.9			
FH (60°-80°)	4755.8	27.7			G2/5000
FVH (80°-90°)	78.5	0.5			G1/100
BL (0°-30°)	292.4	1.7	B1/500		
BM (30°-60°)	676.8	3.9	B1/1000		
BH (60°-80°)	292.4	1.7	B1/500		G1/500
BVH (80°-90°)	1.5	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°	1979.8	1979.8	1979.8	1979.8	1979.8	1979.8	1979.8	1979.8	1979.8	1979.8
2.5°	2741.1	2758.1	2733.6	2686.7	2616.3	2570.5	2458.5	2353.0	2235.7	2198.4
5°	3341.3	3356.2	3328.5	3277.3	3183.5	3094.0	2946.8	2726.1	2496.9	2423.4
7.5°	3785.9	3794.4	3783.8	3736.9	3647.3	3546.0	3381.8	3120.6	2780.5	2699.5
10°	4105.7	4133.5	4130.3	4112.1	4052.4	3970.3	3795.5	3498.0	3098.2	2993.7
12.5°	4317.9	4348.8	4366.9	4407.5	4404.3	4352.0	4198.5	3884.0	3414.9	3292.3
15°	4379.7	4412.8	4482.1	4575.9	4659.1	4685.7	4578.0	4262.5	3763.5	3606.8
17.5°	4344.6	4395.7	4478.9	4627.1	4809.4	4929.9	4918.1	4628.2	4080.2	3901.0
20°	4422.4	4471.4	4536.5	4661.2	4873.4	5091.9	5179.4	4977.8	4394.7	4207.0
22.5°	4853.1	4844.6	4851.0	4871.2	4998.1	5214.5	5394.7	5295.6	4706.0	4514.1
25°	5535.4	5497.1	5432.0	5322.2	5290.2	5394.7	5582.4	5577.0	5034.4	4828.6
27.5°	6318.0	6311.6	6159.1	5894.7	5745.5	5705.0	5794.5	5851.0	5359.5	5139.9
30°	7067.5	7084.6	6878.8	6584.5	6310.5	6151.7	6070.7	6111.2	5690.0	5475.7
32.5°	7720.0	7738.1	7514.2	7169.8	6830.8	6638.9	6468.3	6368.1	6050.4	5816.9
35°	8271.2	8289.3	8032.4	7651.7	7290.3	7116.5	6923.6	6649.6	6412.9	6195.4
37.5°	8763.7	8758.4	8414.0	8030.2	7675.2	7537.7	7436.4	6996.1	6786.0	6576.0
40°	9054.8	9077.2	8782.9	8359.7	8015.3	7915.1	7908.7	7425.7	7216.8	7013.1
42.5°	9140.1	9179.5	8966.3	8618.7	8306.4	8197.6	8365.0	7890.6	7717.9	7519.5
45°	8986.6	9024.9	8927.9	8687.0	8504.7	8434.3	8757.3	8372.5	8253.1	8056.9
47.5°	8538.8	8586.8	8610.2	8559.0	8556.9	8628.3	9109.2	8880.0	8888.5	8688.0
50°	7672.0	7753.0	7968.4	8149.6	8430.0	8781.9	9451.4	9430.1	9604.9	9432.2
52.5°	6096.2	6211.4	6953.4	7449.2	8079.3	8753.1	9827.8	10312.9	10861.9	10609.2
55°	4899.0	4899.0	5502.4	6429.9	7394.8	8563.3	9991.9	10886.4	11718.0	11658.3
57.5°	3993.8	4041.8	4426.6	5246.5	6404.4	8111.3	10093.2	11246.8	12407.8	12364.1
60°	2464.9	2568.4	3295.5	4104.7	5277.4	7306.3	10029.3	11611.4	13244.8	13279.9
62.5°	1388.1	1426.5	1750.6	2953.2	4103.6	6224.2	9539.9	11815.1	14315.2	14464.4
65°	958.5	977.7	1102.4	1838.0	2844.5	4955.5	8583.6	11688.2	15387.7	15689.4
67.5°	696.2	705.8	783.6	1122.7	1687.7	3592.9	7084.6	11048.5	15956.0	16460.3
70°	535.2	541.6	598.1	737.8	996.8	2217.6	5145.2	9776.6	15544.4	16146.8
72.5°	435.0	441.4	485.1	545.9	661.0	1311.4	3118.5	7939.6	13727.7	14378.1
75°	366.8	375.3	414.7	454.2	518.1	842.3	1462.8	5529.0	10323.5	10750.0
77.5°	203.6	187.6	336.9	376.4	437.1	533.1	684.5	3253.9	5781.7	5900.1
80°	126.9	131.1	267.6	302.8	335.8	268.7	313.4	1252.7	2004.4	1904.1
82.5°	7.5	17.1	205.8	218.6	230.3	115.1	118.3	425.4	483.0	443.5
85°	0.0	0.0	93.8	75.7	80.0	33.1	34.1	99.2	65.0	70.4
87.5°	0.0	0.0	0.0	2.1	0.0	3.2	6.4	8.5	3.2	4.3
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°
1979.8	0°	1979.8	1979.8	1979.8	1979.8	1979.8	1979.8	1979.8	1979.8	1979.8	1979.8
2081.1	2.5°	2006.5	1931.9	1780.5	1632.3	1511.8	1399.9	1319.9	1244.2	1205.8	1203.7
2215.5	5°	2067.3	1910.5	1607.8	1340.1	1124.8	952.1	840.1	760.2	719.7	705.8
2380.7	7.5°	2152.6	1916.9	1456.4	1084.3	830.5	682.3	618.4	592.8	584.2	574.7
2567.3	10°	2260.2	1931.9	1321.0	873.2	654.6	580.0	554.4	543.7	537.3	530.9
2777.3	12.5°	2380.7	1945.7	1186.6	725.0	575.7	537.3	519.2	506.4	497.9	490.4
2992.7	15°	2498.0	1954.3	1047.0	621.6	535.2	504.3	485.1	471.2	459.5	451.0
3203.8	17.5°	2614.2	1966.0	915.8	559.7	502.2	471.2	452.0	435.0	425.4	415.8
3425.5	20°	2743.2	1963.8	792.1	516.0	469.1	438.2	417.9	401.9	392.3	381.7
3660.1	22.5°	2862.6	1953.2	683.4	478.7	435.0	405.1	382.7	366.8	357.2	348.6
3900.0	25°	3000.1	1944.7	592.8	444.6	403.0	373.2	348.6	333.7	323.0	315.6
4140.9	27.5°	3132.3	1931.9	526.7	413.7	372.1	343.3	319.8	302.8	293.2	287.9
4389.3	30°	3262.4	1928.7	502.2	383.8	344.4	315.6	292.1	276.1	268.7	266.5
4662.3	32.5°	3419.1	1937.2	512.8	373.2	318.8	290.0	267.6	255.9	248.4	248.4
4966.1	35°	3586.5	1935.1	528.8	382.7	301.7	264.4	247.3	239.9	232.4	232.4
5303.0	37.5°	3796.6	1938.3	541.6	398.7	295.3	243.1	233.5	223.9	219.6	219.6
5671.9	40°	4110.0	2043.8	535.2	412.6	293.2	228.2	209.0	205.8	202.6	202.6
6088.8	42.5°	4493.8	2273.0	543.7	413.7	292.1	217.5	191.9	198.3	190.8	189.8
6558.9	45°	4913.9	2523.6	598.1	391.3	291.1	212.2	183.4	190.8	179.1	179.1
7103.7	47.5°	5330.7	2772.0	653.5	359.3	287.9	211.1	175.9	171.6	168.5	169.5
7813.8	50°	5905.4	2974.6	674.9	315.6	280.4	209.0	162.1	163.1	161.0	163.1
8814.9	52.5°	6531.2	3017.2	649.3	266.5	259.1	202.6	152.5	156.7	155.7	157.8
9519.6	55°	6921.4	2971.4	536.3	221.8	226.0	177.0	142.9	151.4	151.4	151.4
10208.4	57.5°	7324.4	2776.3	380.6	180.2	187.6	145.0	134.3	146.1	145.0	143.9
11037.8	60°	7614.4	2460.7	250.5	148.2	149.3	119.4	124.7	137.5	136.5	131.1
11892.9	62.5°	7830.9	2112.0	161.0	125.8	114.1	107.7	114.1	124.7	120.5	108.7
12617.9	65°	7806.3	1629.1	123.7	107.7	93.8	93.8	99.2	108.7	96.0	76.8
12756.5	67.5°	7351.1	1102.4	102.4	90.6	78.9	77.8	82.1	90.6	82.1	65.0
12046.4	70°	6537.6	720.7	82.1	70.4	62.9	57.6	66.1	77.8	69.3	52.2
10255.3	72.5°	5306.2	439.3	61.8	51.2	45.8	37.3	52.2	64.0	55.4	38.4
7131.5	75°	3433.0	223.9	42.6	33.1	24.5	22.4	38.4	48.0	38.4	23.5
3164.3	77.5°	1313.5	93.8	23.5	14.9	12.8	10.7	21.3	28.8	16.0	5.3
613.0	80°	252.7	39.4	11.7	7.5	6.4	4.3	3.2	2.1	0.0	0.0
108.7	82.5°	43.7	12.8	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
21.3	85°	14.9	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5	87.5°	5.3	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>
1979.8
1201.5
703.7
572.5
528.8
488.3
449.9
414.7
380.6
347.6
314.5
287.9
265.5
248.4
232.4
219.6
202.6
188.7
179.1
169.5
163.1
157.8
151.4
143.9
131.1
106.6
74.6
62.9
50.1
36.2
20.3
4.3
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