

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: P941858

Luminaire Tested: **GALN-SB5C-830-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941858  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5C-830-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

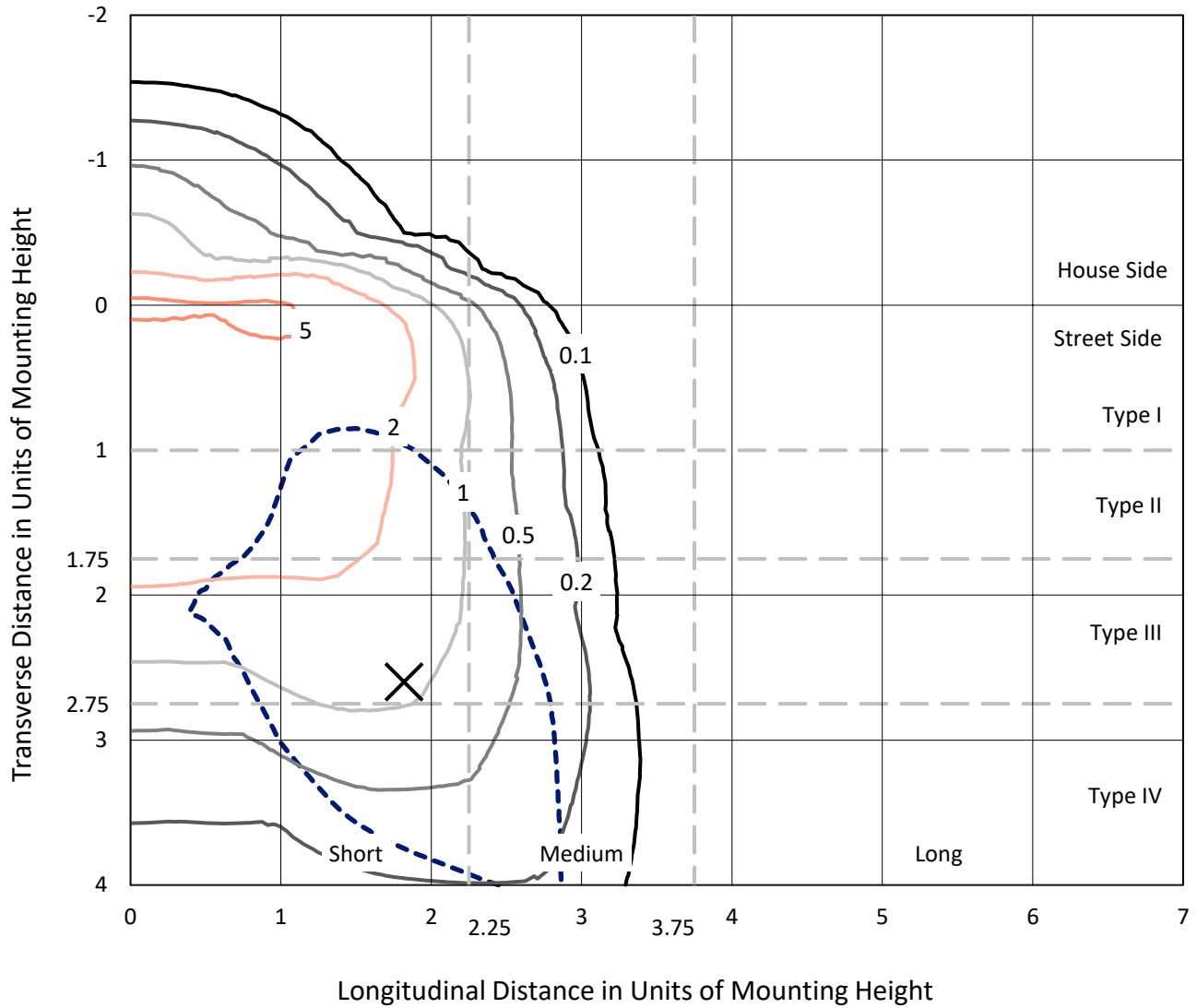
Lumens per Lamp: N/A  
Luminaire Lumens: 25737 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

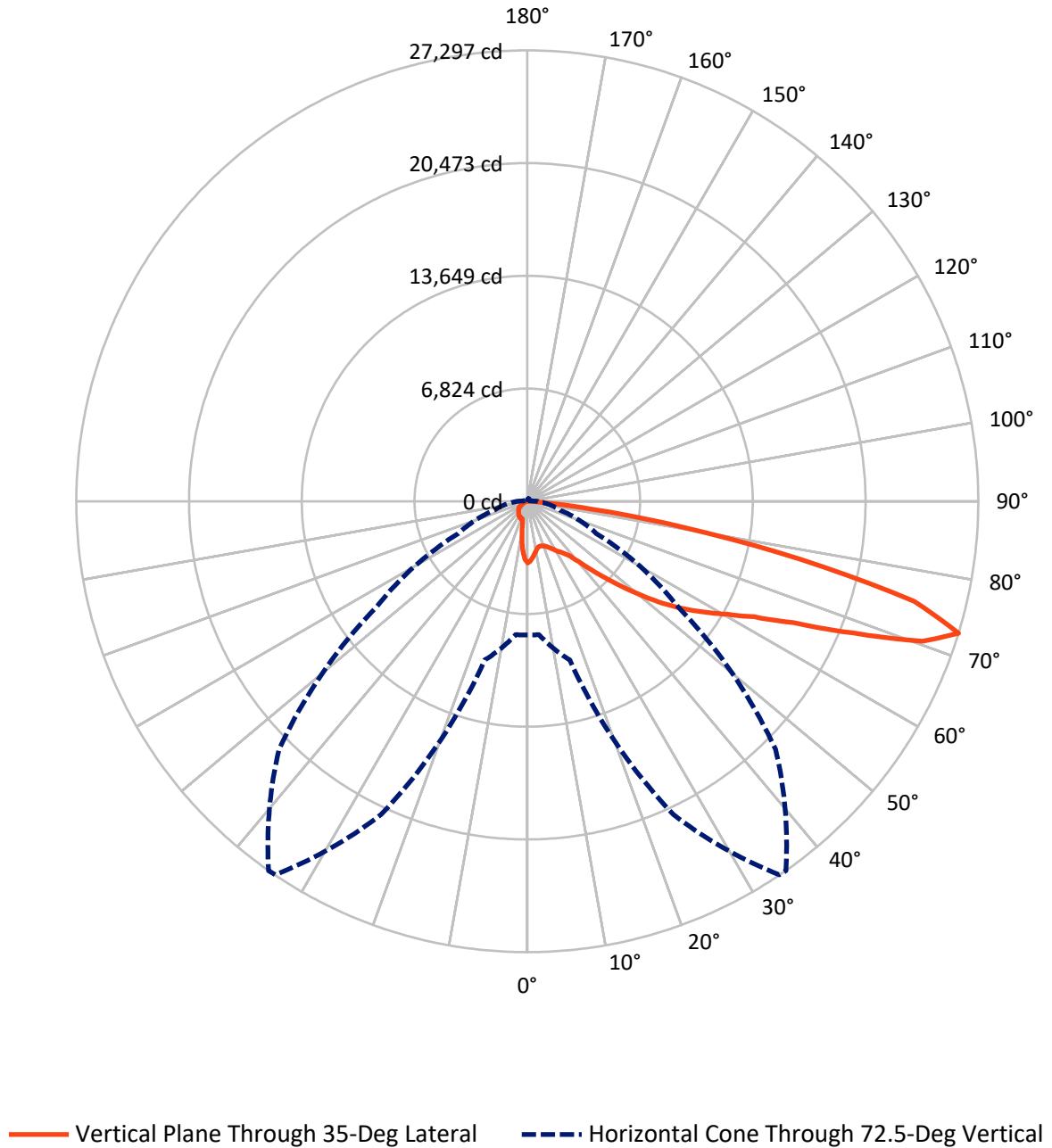
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2896.6	0.0	2896.6
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	22840.4	0.0	22840.4
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	25737.0	0.0	25737.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.5	1.2
10°-20°	717.1	2.8
20°-30°	1164.9	4.5
30°-40°	1943.5	7.6
40°-50°	3677.2	14.3
50°-60°	5843.1	22.7
60°-70°	7228.3	28.1
70°-80°	4493.2	17.5
80°-90°	363.1	1.4
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°	25737.0	100.0
0°-180°	25737.0	100.0

**Coefficient of Utilization**



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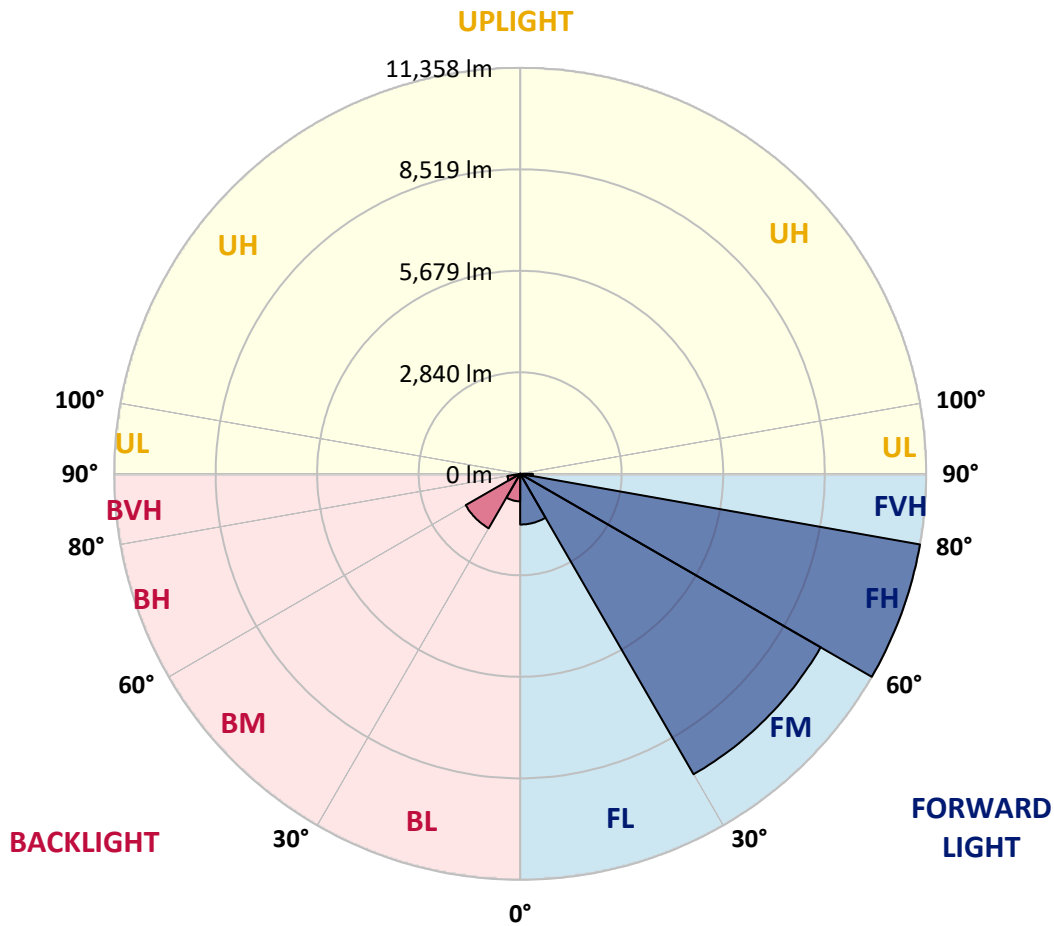
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1418.8	5.5			
FM (30°-60°)	9705.4	37.7			
FH (60°-80°)	11358.1	44.1			G4/12000
FVH (80°-90°)	358.2	1.4			G3/500
BL (0°-30°)	769.7	3.0	B2/1000		
BM (30°-60°)	1758.5	6.8	B2/2500		
BH (60°-80°)	363.5	1.4	B1/500		G1/500
BVH (80°-90°)	4.9	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2
2.5°	3564.2	3594.4	3600.0	3609.5	3609.5	3620.8	3639.6	3666.0	3709.4	3732.0
5°	3285.1	3307.7	3336.0	3358.6	3402.0	3407.7	3481.2	3552.9	3652.8	3728.3
7.5°	3004.1	3030.5	3068.2	3122.9	3179.5	3196.5	3307.7	3428.4	3586.8	3728.3
10°	2806.1	2808.0	2841.9	2896.6	2987.1	3007.9	3143.7	3315.3	3513.3	3705.6
12.5°	2694.8	2708.0	2723.1	2764.6	2851.4	2864.6	3009.8	3211.6	3439.7	3692.4
15°	2694.8	2704.3	2713.7	2734.4	2804.2	2815.5	2943.8	3145.5	3402.0	3698.1
17.5°	2723.1	2738.2	2730.7	2755.2	2828.7	2836.3	2949.4	3126.7	3400.1	3733.9
20°	2791.0	2802.3	2787.2	2802.3	2875.9	2891.0	3007.9	3162.5	3432.2	3796.2
22.5°	2898.5	2904.2	2868.3	2879.6	2955.1	2973.9	3109.7	3264.4	3509.5	3896.1
25°	3034.3	3045.6	2990.9	3004.1	3075.8	3098.4	3254.9	3417.1	3632.1	4033.8
27.5°	3190.8	3196.5	3149.3	3147.4	3239.8	3271.9	3430.3	3605.7	3796.2	4207.3
30°	3370.0	3386.9	3341.7	3334.1	3451.1	3477.5	3634.0	3837.6	4037.5	4467.5
32.5°	3511.4	3524.6	3498.2	3517.1	3635.9	3656.6	3881.0	4165.8	4416.6	4837.1
35°	3715.1	3722.6	3662.3	3696.2	3832.0	3884.8	4218.6	4625.9	4893.7	5301.0
37.5°	4452.4	4452.4	4196.0	4028.1	4158.2	4205.4	4680.6	5204.9	5482.1	5923.4
40°	5472.7	5455.7	5080.4	4737.2	4720.2	4812.6	5338.8	5934.7	6242.1	6670.1
42.5°	6560.8	6534.4	6023.3	5683.9	5627.3	5659.3	6098.7	6834.2	7147.3	7581.0
45°	7526.3	7518.8	7051.1	6594.7	6492.9	6594.7	7047.3	7886.5	8110.9	8567.3
47.5°	8335.3	8335.3	7994.0	7696.0	7643.2	7703.6	8331.6	9053.8	9033.1	9617.7
50°	9266.9	9259.4	8935.0	8806.8	8861.5	8946.3	9810.0	10283.4	9987.3	10649.2
52.5°	9919.4	9964.7	9853.4	9832.7	10111.8	10258.9	11311.2	11486.5	10841.6	11628.0
55°	10436.1	10488.9	10617.2	10762.4	11299.8	11492.2	12765.1	12627.5	11556.3	12476.6
57.5°	11167.8	11092.4	11290.4	11577.1	12446.4	12678.4	14173.8	13704.3	12131.5	13164.9
60°	12056.1	12067.4	12101.3	12463.4	13591.1	13889.1	15561.8	14722.6	12501.1	13587.3
62.5°	13123.4	13140.4	13210.2	13766.5	15128.1	15409.0	17040.3	15556.1	12670.8	13468.5
65°	13049.9	13121.5	13900.4	15803.2	17464.6	17741.8	18765.8	16140.7	12414.4	12382.3
67.5°	11888.2	12005.1	13308.2	18235.9	20987.3	21296.6	20851.5	16255.8	11307.4	9629.0
70°	10364.5	10406.0	11973.1	20423.4	25066.3	25379.4	22718.5	14990.4	8580.5	5370.8
72.5°	8093.9	8103.4	9942.0	20930.7	27280.3	27297.3	21253.2	11128.2	4614.6	2063.1
75°	5781.9	5725.4	6658.8	16974.3	24000.8	24193.2	15933.3	5220.0	1763.2	975.0
77.5°	3100.3	3162.5	3767.9	10066.5	16580.1	16908.3	8693.6	1504.9	897.7	663.8
80°	958.0	1010.8	1544.5	4608.9	9391.4	9589.4	3222.9	669.5	626.1	473.3
82.5°	301.7	313.0	720.4	1936.7	3898.0	3988.5	933.5	379.1	428.1	313.0
85°	86.7	88.6	320.6	722.3	963.7	982.5	262.1	147.1	245.2	194.2
87.5°	9.4	30.2	120.7	120.7	84.9	83.0	28.3	32.1	69.8	24.5
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°
3730.2	0°	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2	3730.2
3747.1	2.5°	3737.7	3739.6	3715.1	3673.6	3628.3	3590.6	3543.5	3505.7	3479.3	3471.8
3781.1	5°	3764.1	3750.9	3681.1	3554.8	3403.9	3273.8	3128.6	3013.5	2938.1	2906.1
3816.9	7.5°	3803.7	3766.0	3613.2	3364.3	3075.8	2819.3	2559.1	2357.3	2229.0	2164.9
3850.8	10°	3837.6	3762.2	3500.1	3089.0	2647.7	2259.2	1908.5	1665.2	1529.4	1465.3
3890.4	12.5°	3869.7	3760.3	3353.0	2762.7	2164.9	1689.7	1363.4	1242.8	1205.0	1191.8
3954.6	15°	3930.1	3766.0	3168.2	2389.3	1684.0	1276.7	1157.9	1156.0	1163.6	1159.8
4052.6	17.5°	4013.0	3771.6	2958.9	1993.3	1299.3	1125.8	1120.2	1137.2	1148.5	1142.8
4175.2	20°	4120.5	3794.3	2736.3	1601.1	1116.4	1088.1	1101.3	1116.4	1125.8	1116.4
4339.3	22.5°	4271.4	3833.9	2493.1	1286.1	1057.9	1065.5	1076.8	1093.8	1103.2	1090.0
4548.6	25°	4456.2	3896.1	2253.6	1118.3	1029.7	1039.1	1056.1	1074.9	1086.2	1073.0
4812.6	27.5°	4695.7	3996.1	2032.9	1080.6	1001.4	1007.0	1031.5	1059.8	1074.9	1057.9
5187.9	30°	5042.7	4160.1	1842.4	1097.5	984.4	971.2	1005.1	1044.7	1061.7	1046.6
5699.0	32.5°	5502.8	4392.1	1725.5	1123.9	976.9	929.7	961.8	1012.7	1041.0	1031.5
6366.5	35°	6106.3	4744.7	1680.3	1154.1	971.2	886.3	909.0	963.7	1012.7	1022.1
7207.6	37.5°	6838.0	5235.0	1693.5	1167.3	954.2	850.5	861.8	909.0	973.1	1003.3
8154.3	40°	7669.6	5806.4	1768.9	1154.1	935.4	820.3	822.2	858.0	914.6	959.9
9172.6	42.5°	8527.7	6474.0	1908.5	1105.1	918.4	793.9	788.3	812.8	850.5	882.6
10189.1	45°	9344.2	7160.5	2046.1	1037.2	897.7	767.5	754.3	763.8	771.3	784.5
11179.1	47.5°	10057.1	7643.2	2006.5	975.0	869.4	737.4	714.7	711.0	688.3	686.4
12063.6	50°	10549.3	7748.8	1782.1	912.7	827.9	703.4	667.6	645.0	605.3	586.5
12725.5	52.5°	10705.8	7332.1	1455.9	850.5	760.0	658.2	607.2	571.4	522.4	505.4
13106.5	55°	10498.4	6515.5	1163.6	775.1	665.7	597.8	541.2	494.1	454.5	433.7
13147.9	57.5°	9991.1	5476.4	920.3	686.4	565.7	529.9	473.3	426.2	392.3	371.5
12687.8	60°	9150.0	4348.7	727.9	580.8	482.8	456.4	397.9	367.7	337.6	313.0
11499.7	62.5°	7873.3	3104.1	571.4	460.1	403.6	373.4	339.4	316.8	281.0	247.0
9363.1	65°	6144.0	1899.0	441.3	337.6	324.4	309.3	288.5	267.8	224.4	190.5
6108.2	67.5°	3875.4	899.5	314.9	254.6	256.5	248.9	239.5	222.5	190.5	160.3
2736.3	70°	1706.7	435.6	207.4	194.2	190.5	190.5	198.0	192.4	162.2	133.9
950.5	72.5°	580.8	233.8	154.6	147.1	137.7	135.8	166.0	160.3	130.1	103.7
473.3	75°	303.6	156.5	113.1	105.6	83.0	99.9	132.0	124.5	92.4	67.9
313.0	77.5°	198.0	111.3	77.3	67.9	47.1	66.0	98.1	86.7	54.7	33.9
205.6	80°	124.5	73.5	45.3	32.1	22.6	35.8	52.8	37.7	20.7	7.5
120.7	82.5°	66.0	37.7	17.0	11.3	9.4	11.3	13.2	9.4	3.8	0.0
62.2	85°	26.4	13.2	5.7	3.8	1.9	0.0	3.8	1.9	0.0	0.0
11.3	87.5°	9.4	1.9	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°
3730.2
3485.0
2917.4
2174.4
1467.2
1188.1
1157.9
1140.9
1114.5
1088.1
1071.1
1057.9
1044.7
1031.5
1022.1
1010.8
975.0
895.8
792.0
684.6
588.4
503.5
433.7
367.7
307.4
241.4
184.8
156.5
128.2
98.1
62.2
30.2
5.7
0.0
0.0
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