

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: P943258

Luminaire Tested: **GALN-SB7C-927-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943258
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-SB7C-927-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 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: 24546 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

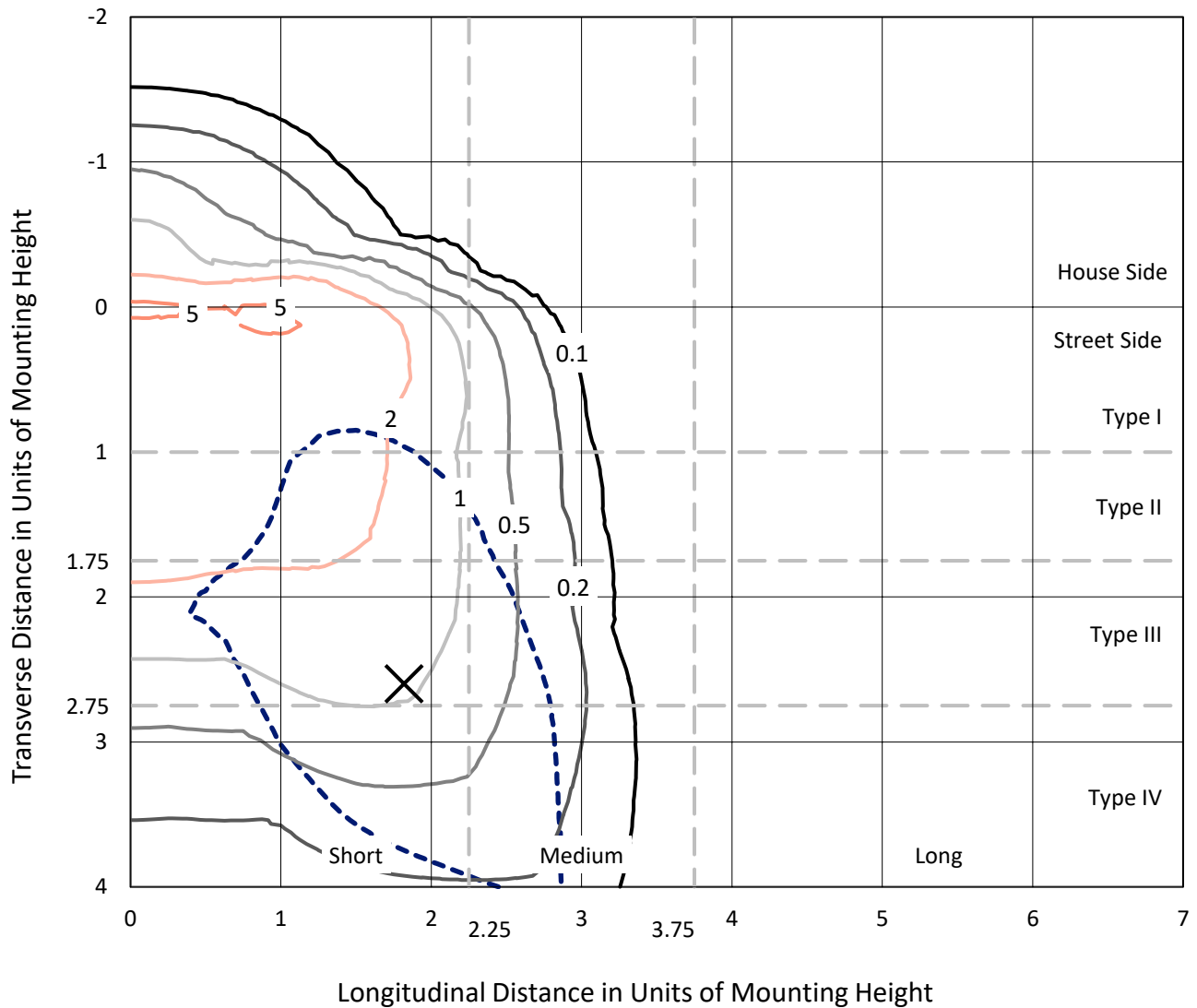
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

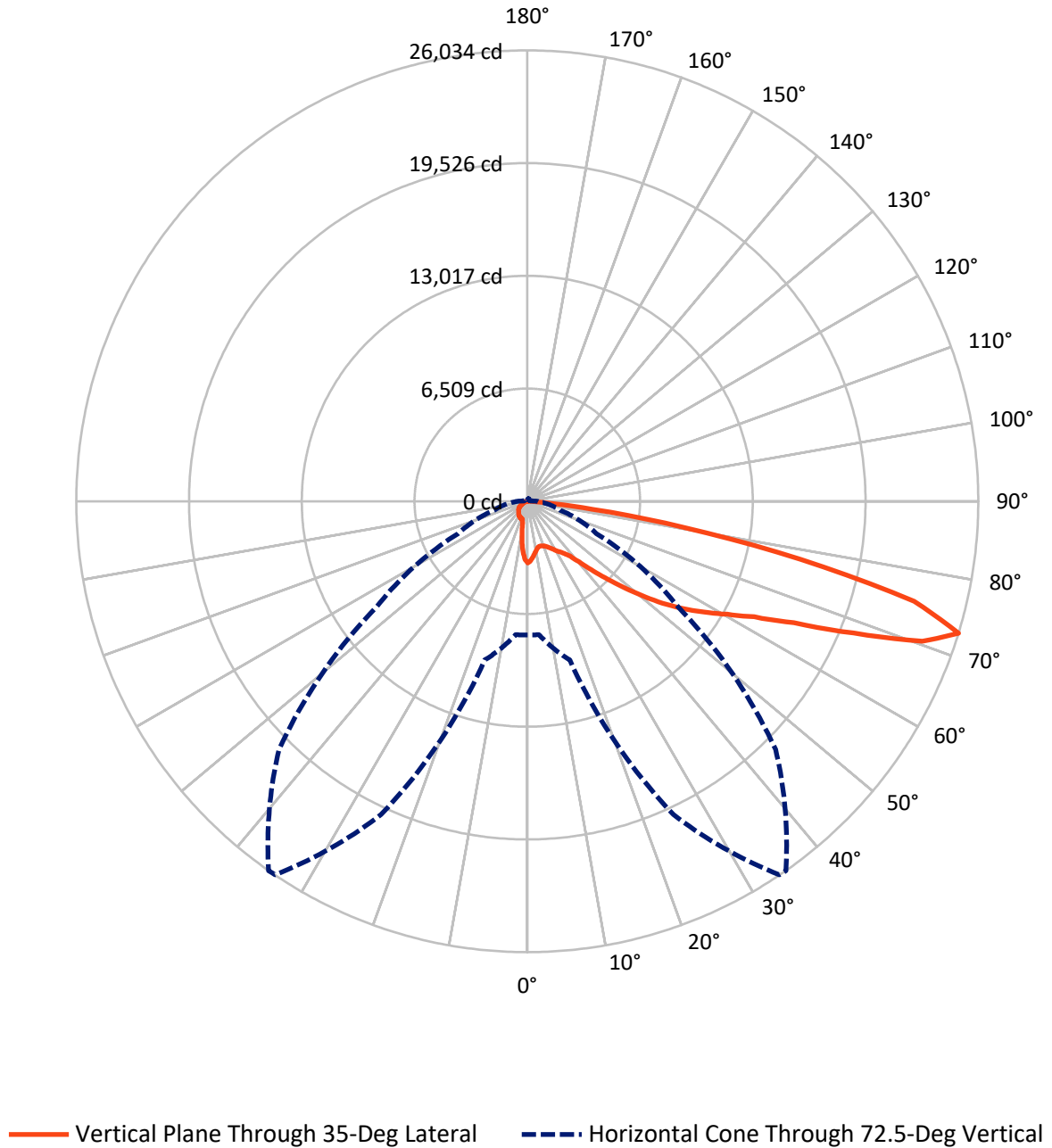
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2762.5	0.0	2762.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	21783.5	0.0	21783.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	24546.0	0.0	24546.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.3	1.2
10°-20°	683.9	2.8
20°-30°	1111.0	4.5
30°-40°	1853.6	7.6
40°-50°	3507.1	14.3
50°-60°	5572.7	22.7
60°-70°	6893.8	28.1
70°-80°	4285.3	17.5
80°-90°	346.3	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°	24546.0	100.0
0°-180°	24546.0	100.0

Coefficient of Utilization



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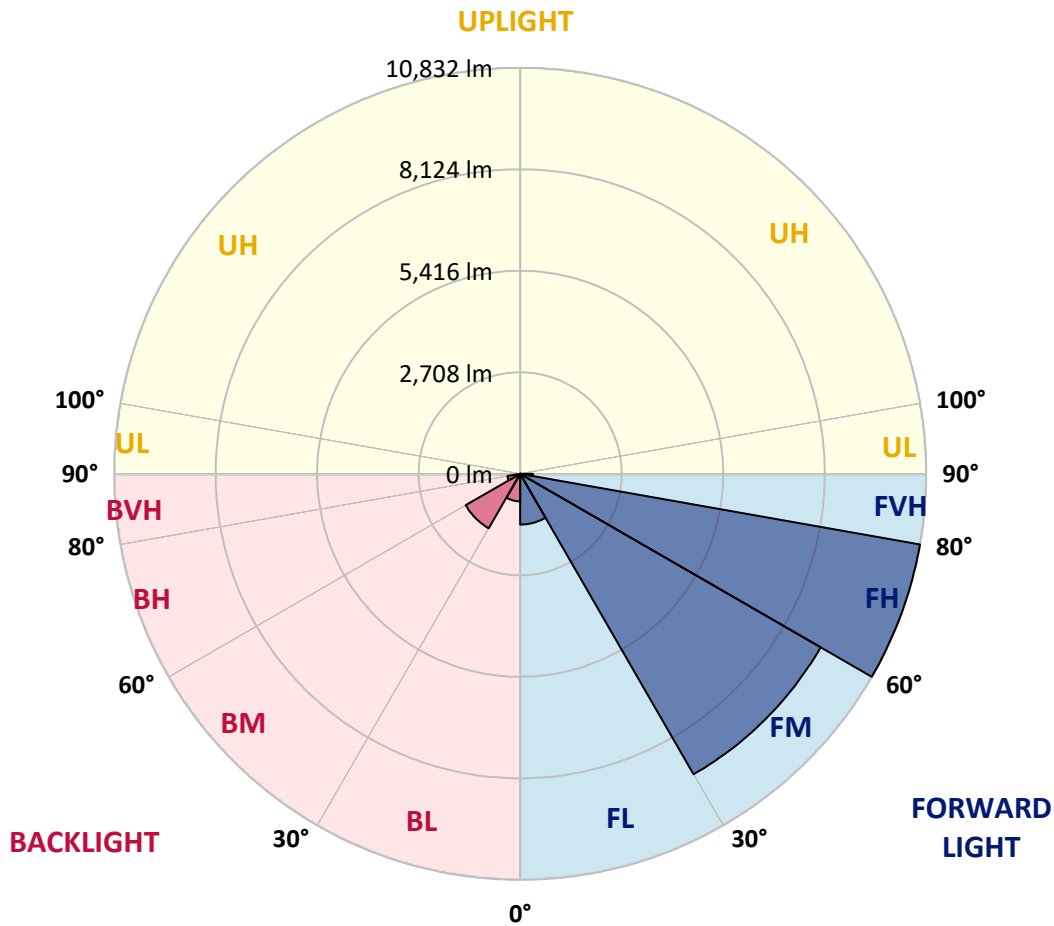
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1353.1	5.5			
FM (30°-60°)	9256.3	37.7			
FH (60°-80°)	10832.5	44.1			G4/12000
FVH (80°-90°)	341.6	1.4			G3/500
BL (0°-30°)	734.1	3.0	B2/1000		
BM (30°-60°)	1677.1	6.8	B2/2500		
BH (60°-80°)	346.7	1.4	B1/500		G1/500
BVH (80°-90°)	4.7	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°	3557.5	3557.5	3557.5	3557.5	3557.5	3557.5	3557.5	3557.5	3557.5	3557.5
2.5°	3399.3	3428.0	3433.4	3442.4	3442.4	3453.2	3471.2	3496.4	3537.8	3559.3
5°	3133.1	3154.7	3181.6	3203.2	3244.6	3250.0	3320.1	3388.5	3483.8	3555.7
7.5°	2865.1	2890.3	2926.2	2978.4	3032.4	3048.5	3154.7	3269.8	3420.8	3555.7
10°	2676.2	2678.0	2710.4	2762.6	2848.9	2868.7	2998.2	3161.9	3350.7	3534.2
12.5°	2570.1	2582.7	2597.1	2636.7	2719.4	2732.0	2870.5	3062.9	3280.6	3521.6
15°	2570.1	2579.1	2588.1	2607.9	2674.4	2685.2	2807.5	3000.0	3244.6	3527.0
17.5°	2597.1	2611.5	2604.3	2627.7	2697.8	2705.0	2812.9	2982.0	3242.8	3561.1
20°	2661.9	2672.7	2658.3	2672.7	2742.8	2757.2	2868.7	3016.2	3273.4	3620.5
22.5°	2764.4	2769.8	2735.6	2746.4	2818.3	2836.3	2965.8	3113.3	3347.1	3715.8
25°	2893.9	2904.7	2852.5	2865.1	2933.4	2955.0	3104.3	3259.0	3464.0	3847.1
27.5°	3043.2	3048.5	3003.6	3001.8	3089.9	3120.5	3271.6	3438.8	3620.5	4012.6
30°	3214.0	3230.2	3187.0	3179.8	3291.4	3316.5	3465.8	3660.1	3850.7	4260.8
32.5°	3348.9	3361.5	3336.3	3354.3	3467.6	3487.4	3701.4	3973.0	4212.2	4613.3
35°	3543.1	3550.3	3492.8	3525.2	3654.7	3705.0	4023.4	4411.9	4667.2	5055.7
37.5°	4246.4	4246.4	4001.8	3841.7	3965.8	4010.8	4464.0	4964.0	5228.4	5649.3
40°	5219.4	5203.2	4845.3	4518.0	4501.8	4589.9	5091.7	5660.0	5953.2	6361.5
42.5°	6257.2	6232.0	5744.6	5420.8	5366.9	5397.5	5816.5	6518.0	6816.5	7230.2
45°	7178.0	7170.8	6724.8	6289.5	6192.4	6289.5	6721.2	7521.5	7735.6	8170.8
47.5°	7949.6	7949.6	7624.1	7339.9	7289.5	7347.1	7946.0	8634.9	8615.1	9172.6
50°	8838.1	8830.9	8521.5	8399.2	8451.4	8532.3	9356.1	9807.5	9525.1	10156.4
52.5°	9460.4	9503.6	9397.4	9377.7	9643.8	9784.1	10787.7	10955.0	10339.9	11089.9
55°	9953.2	10003.6	10125.9	10264.3	10776.9	10960.4	12174.4	12043.1	11021.5	11899.2
57.5°	10651.0	10579.1	10767.9	11041.3	11870.5	12091.7	13517.9	13070.1	11570.1	12555.7
60°	11498.2	11508.9	11541.3	11886.6	12962.2	13246.3	14841.7	14041.3	11922.6	12958.6
62.5°	12516.1	12532.3	12598.9	13129.4	14428.0	14696.0	16251.7	14836.3	12084.5	12845.3
65°	12446.0	12514.3	13257.1	15071.9	16656.4	16920.8	17897.4	15393.8	11839.9	11809.3
67.5°	11338.1	11449.6	12692.4	17392.0	20016.1	20311.1	19886.6	15503.5	10784.1	9183.4
70°	9884.8	9924.4	11419.0	19478.3	23906.4	24204.9	21667.2	14296.7	8183.4	5122.3
72.5°	7719.4	7728.4	9482.0	19962.1	26017.9	26034.1	20269.7	10613.3	4401.1	1967.6
75°	5514.4	5460.4	6350.7	16188.8	22890.2	23073.6	15196.0	4978.4	1681.6	929.9
77.5°	2956.8	3016.2	3593.5	9600.7	15812.9	16125.8	8291.3	1435.2	856.1	633.1
80°	913.7	964.0	1473.0	4395.7	8956.8	9145.6	3073.7	638.5	597.1	451.4
82.5°	287.8	298.6	687.0	1847.1	3717.6	3803.9	890.3	361.5	408.3	298.6
85°	82.7	84.5	305.8	688.8	919.1	937.0	250.0	140.3	233.8	185.3
87.5°	9.0	28.8	115.1	115.1	80.9	79.1	27.0	30.6	66.5	23.4
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°
3557.5	0°	3557.5	3557.5	3557.5	3557.5	3557.5	3557.5	3557.5	3557.5	3557.5	3557.5
3573.7	2.5°	3564.7	3566.5	3543.1	3503.6	3460.4	3424.4	3379.5	3343.5	3318.3	3311.1
3606.1	5°	3589.9	3577.3	3510.8	3390.3	3246.4	3122.3	2983.8	2874.1	2802.1	2771.6
3640.3	7.5°	3627.7	3591.7	3446.0	3208.6	2933.4	2688.8	2440.6	2248.2	2125.9	2064.7
3672.6	10°	3660.1	3588.1	3338.1	2946.0	2525.2	2154.7	1820.1	1588.1	1458.6	1397.5
3710.4	12.5°	3690.6	3586.3	3197.8	2634.9	2064.7	1611.5	1300.4	1185.2	1149.3	1136.7
3771.6	15°	3748.2	3591.7	3021.6	2278.8	1606.1	1217.6	1104.3	1102.5	1109.7	1106.1
3865.1	17.5°	3827.3	3597.1	2821.9	1901.1	1239.2	1073.7	1068.3	1084.5	1095.3	1089.9
3982.0	20°	3929.8	3618.7	2609.7	1527.0	1064.7	1037.8	1050.4	1064.7	1073.7	1064.7
4138.5	22.5°	4073.7	3656.5	2377.7	1226.6	1009.0	1016.2	1027.0	1043.2	1052.2	1039.6
4338.1	25°	4250.0	3715.8	2149.3	1066.5	982.0	991.0	1007.2	1025.2	1036.0	1023.4
4589.9	27.5°	4478.4	3811.1	1938.8	1030.6	955.0	960.4	983.8	1010.8	1025.2	1009.0
4947.8	30°	4809.3	3967.6	1757.2	1046.8	938.8	926.3	958.6	996.4	1012.6	998.2
5435.2	32.5°	5248.2	4188.8	1645.7	1071.9	931.7	886.7	917.3	965.8	992.8	983.8
6071.9	35°	5823.7	4525.2	1602.5	1100.7	926.3	845.3	866.9	919.1	965.8	974.8
6874.1	37.5°	6521.6	4992.8	1615.1	1113.3	910.1	811.1	821.9	866.9	928.1	956.8
7776.9	40°	7314.7	5537.7	1687.0	1100.7	892.1	782.4	784.2	818.3	872.3	915.5
8748.2	42.5°	8133.1	6174.4	1820.1	1054.0	875.9	757.2	751.8	775.2	811.1	841.7
9717.6	45°	8911.8	6829.1	1951.4	989.2	856.1	732.0	719.4	728.4	735.6	748.2
10661.8	47.5°	9591.7	7289.5	1913.7	929.9	829.1	703.2	681.7	678.1	656.5	654.7
11505.3	50°	10061.1	7390.3	1699.6	870.5	789.6	670.9	636.7	615.1	577.3	559.4
12136.6	52.5°	10210.4	6992.8	1388.5	811.1	724.8	627.7	579.1	545.0	498.2	482.0
12499.9	55°	10012.5	6214.0	1109.7	739.2	634.9	570.1	516.2	471.2	433.5	413.7
12539.5	57.5°	9528.7	5223.0	877.7	654.7	539.6	505.4	451.4	406.5	374.1	354.3
12100.7	60°	8726.6	4147.5	694.2	554.0	460.4	435.2	379.5	350.7	321.9	298.6
10967.6	62.5°	7509.0	2960.4	545.0	438.8	384.9	356.1	323.7	302.2	268.0	235.6
8929.8	65°	5859.7	1811.1	420.9	321.9	309.4	295.0	275.2	255.4	214.0	181.7
5825.5	67.5°	3696.0	857.9	300.4	242.8	244.6	237.4	228.4	212.2	181.7	152.9
2609.7	70°	1627.7	415.5	197.8	185.3	181.7	181.7	188.8	183.5	154.7	127.7
906.5	72.5°	554.0	223.0	147.5	140.3	131.3	129.5	158.3	152.9	124.1	98.9
451.4	75°	289.6	149.3	107.9	100.7	79.1	95.3	125.9	118.7	88.1	64.7
298.6	77.5°	188.8	106.1	73.7	64.7	45.0	62.9	93.5	82.7	52.2	32.4
196.0	80°	118.7	70.1	43.2	30.6	21.6	34.2	50.4	36.0	19.8	7.2
115.1	82.5°	62.9	36.0	16.2	10.8	9.0	10.8	12.6	9.0	3.6	0.0
59.4	85°	25.2	12.6	5.4	3.6	1.8	0.0	3.6	1.8	0.0	0.0
10.8	87.5°	9.0	1.8	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>
3557.5
3323.7
2782.4
2073.7
1399.3
1133.1
1104.3
1088.1
1062.9
1037.8
1021.6
1009.0
996.4
983.8
974.8
964.0
929.9
854.3
755.4
652.9
561.1
480.2
413.7
350.7
293.2
230.2
176.3
149.3
122.3
93.5
59.4
28.8
5.4
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