

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: P942947

Luminaire Tested: **GALN-SB7A-940-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7A-940-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23133 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

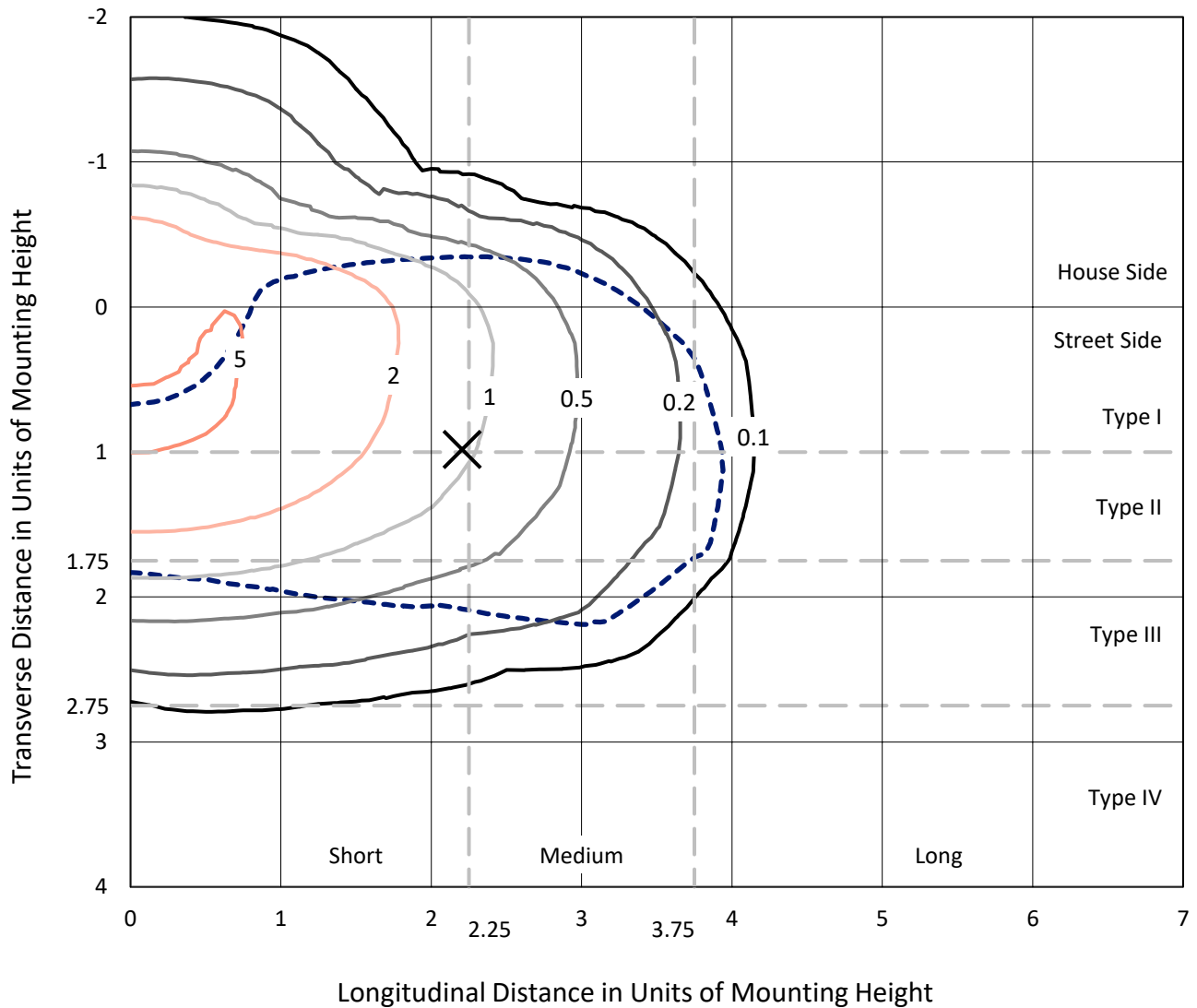
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

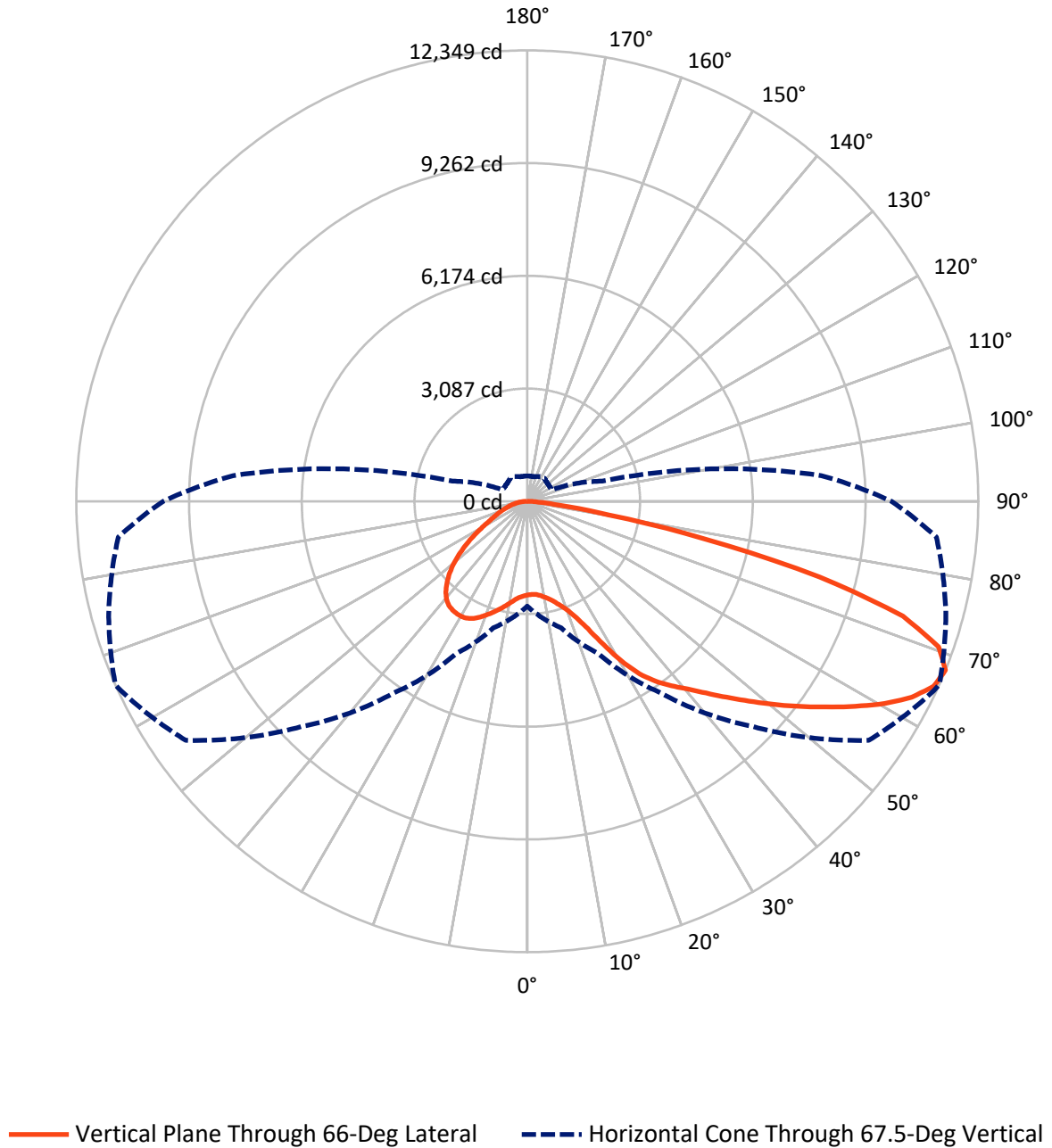
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5751.9	0.0	5751.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	17381.0	0.0	17381.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	23133.0	0.0	23133.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.4	1.1
10°-20°	840.5	3.6
20°-30°	1619.9	7.0
30°-40°	2840.3	12.3
40°-50°	4222.6	18.3
50°-60°	5352.6	23.1
60°-70°	5237.4	22.6
70°-80°	2498.3	10.8
80°-90°	267.0	1.2
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°	23133.0	100.0
0°-180°	23133.0	100.0

Coefficient of Utilization



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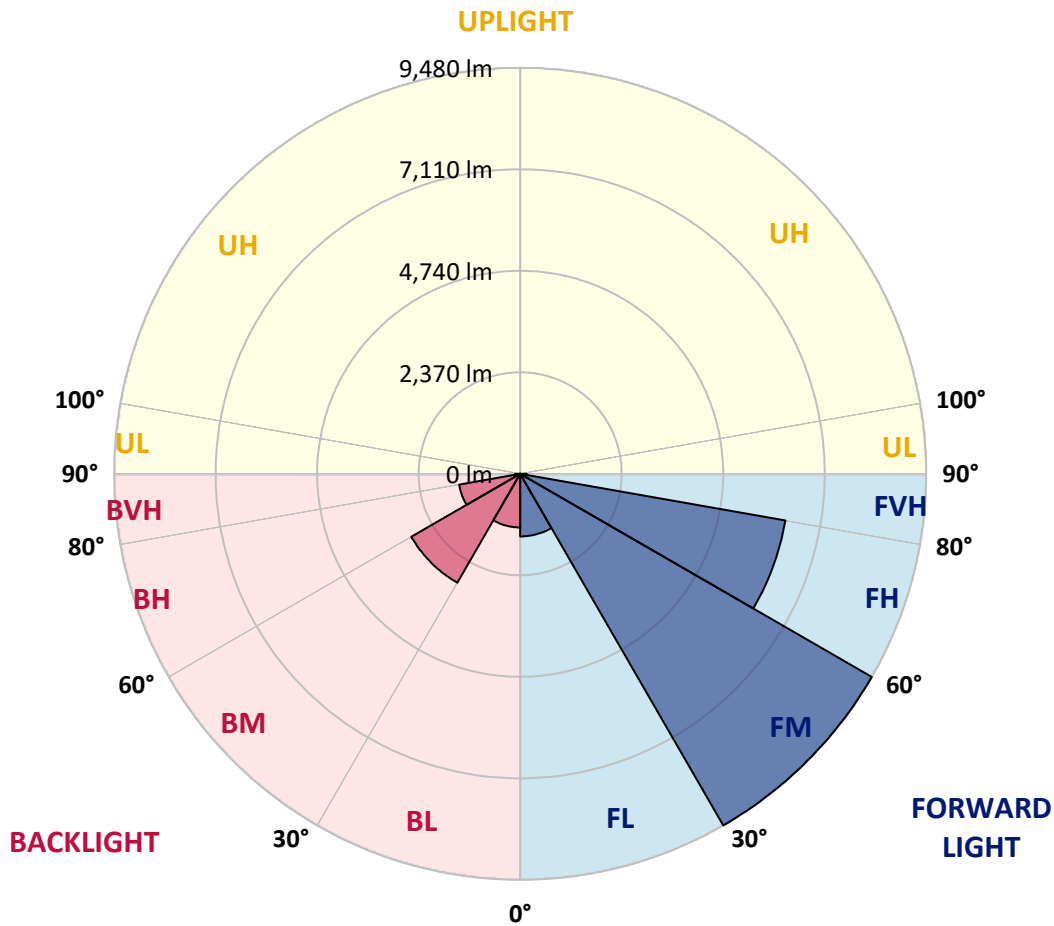
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1461.8	6.3			
FM (30°-60°)	9479.7	41.0			
FH (60°-80°)	6288.2	27.2			G3/7500
FVH (80°-90°)	151.4	0.7			G2/225
BL (0°-30°)	1253.0	5.4	B3/2500		
BM (30°-60°)	2935.9	12.7	B3/5000		
BH (60°-80°)	1447.5	6.3	B3/2500		G3/2500
BVH (80°-90°)	115.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8
2.5°	2539.0	2553.6	2550.0	2543.9	2542.7	2545.1	2548.7	2552.4	2551.2	2557.2
5°	2531.7	2546.3	2545.1	2545.1	2550.0	2559.7	2565.8	2571.8	2565.8	2573.0
7.5°	2536.6	2547.5	2552.4	2557.2	2569.4	2587.6	2602.2	2615.6	2608.3	2616.8
10°	2598.6	2607.1	2611.9	2611.9	2620.4	2641.1	2655.7	2680.0	2673.9	2687.3
12.5°	2711.6	2720.1	2720.1	2715.3	2721.3	2734.7	2739.6	2766.3	2755.4	2777.2
15°	2850.2	2867.2	2853.8	2845.3	2847.7	2861.1	2859.9	2880.5	2869.6	2887.8
17.5°	3003.3	3025.2	3003.3	3002.1	2997.2	3011.8	3013.0	3031.3	3011.8	3025.2
20°	3184.4	3214.8	3196.6	3202.6	3191.7	3197.8	3203.9	3230.6	3200.2	3209.9
22.5°	3439.6	3476.1	3456.7	3479.8	3472.5	3467.6	3466.4	3513.8	3466.4	3470.0
25°	3811.6	3855.3	3821.3	3852.9	3852.9	3868.7	3886.9	3947.7	3868.7	3845.6
27.5°	4360.9	4404.7	4337.8	4357.3	4351.2	4390.1	4370.7	4521.4	4436.3	4398.6
30°	5022.1	5099.9	4973.5	4968.6	4962.6	5024.6	5052.5	5152.2	5065.9	5028.2
32.5°	5736.8	5818.2	5667.5	5623.8	5600.7	5638.3	5615.2	5695.5	5635.9	5577.6
35°	6492.8	6573.0	6429.6	6344.5	6252.1	6173.1	6090.5	6111.1	6055.2	5966.5
37.5°	7207.5	7354.5	7202.6	7111.4	6941.3	6786.9	6556.0	6460.0	6407.7	6326.3
40°	7935.5	8019.4	7903.9	7826.1	7641.4	7399.5	7030.0	6827.0	6756.5	6677.5
42.5°	8471.5	8551.7	8489.7	8436.2	8291.6	8010.8	7533.2	7279.2	7177.1	7088.3
45°	8896.9	8956.4	8917.5	8937.0	8875.0	8602.8	8054.6	7764.1	7658.4	7550.2
47.5°	9068.3	9131.5	9193.5	9308.9	9414.7	9214.1	8614.9	8289.2	8177.4	8066.8
50°	9048.8	9113.2	9293.1	9538.6	9866.8	9799.9	9205.6	8848.3	8745.0	8618.6
52.5°	8893.2	8966.2	9197.1	9605.5	10128.1	10238.7	9807.2	9425.6	9328.4	9177.6
55°	8484.9	8528.6	8875.0	9453.6	10190.1	10545.0	10396.7	10040.6	9943.4	9733.1
57.5°	7727.7	7790.9	8295.3	9044.0	10034.5	10752.8	10914.5	10687.2	10593.6	10291.0
60°	6739.5	6840.4	7417.7	8356.0	9638.3	10751.6	11384.9	11322.9	11245.1	10840.3
62.5°	5621.3	5738.0	6293.5	7383.7	8945.5	10446.6	11679.0	11855.2	11815.1	11347.2
65°	4317.2	4397.4	4950.4	6125.7	7867.4	9791.4	11713.0	12218.6	12225.9	11732.5
67.5°	2874.5	3105.4	3585.5	4596.7	6423.5	8720.7	11414.0	12278.2	12348.7	11864.9
70°	1402.6	1706.5	2176.8	2987.5	4596.7	7078.6	10632.5	11789.6	11946.4	11478.4
72.5°	582.2	680.6	937.1	1474.3	2638.7	4776.6	9062.2	10464.8	10755.3	10170.6
75°	392.6	425.4	536.0	756.0	1202.1	2355.5	6535.3	7803.0	8270.9	7681.5
77.5°	302.6	323.3	390.2	528.7	714.7	890.9	3498.0	4702.5	4944.3	4577.3
80°	238.2	254.0	291.7	385.3	506.8	476.4	1192.3	2130.6	2270.4	1904.6
82.5°	206.6	212.7	209.1	261.3	336.7	278.3	391.4	786.4	867.8	629.6
85°	149.5	166.5	173.8	161.7	178.7	141.0	160.4	278.3	306.3	273.5
87.5°	60.8	89.9	110.6	104.5	65.6	40.1	49.8	81.4	93.6	102.1
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°
2565.8	0°	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8
2567.0	2.5°	2568.2	2576.7	2582.8	2590.1	2594.9	2602.2	2616.8	2625.3	2626.5	2632.6
2586.4	5°	2591.3	2603.4	2616.8	2636.2	2658.1	2676.4	2704.3	2723.8	2731.1	2737.1
2633.8	7.5°	2641.1	2658.1	2682.4	2716.5	2748.1	2772.4	2806.4	2829.5	2852.6	2861.1
2709.2	10°	2715.3	2739.6	2774.8	2821.0	2855.0	2886.6	2921.9	2941.3	2964.4	2974.1
2799.1	12.5°	2807.6	2833.1	2879.3	2943.8	2975.4	2997.2	3009.4	3004.5	3009.4	3017.9
2907.3	15°	2913.4	2941.3	2993.6	3062.9	3084.7	3065.3	3038.6	3014.2	3010.6	3013.0
3038.6	17.5°	3038.6	3059.2	3120.0	3178.3	3162.5	3082.3	3024.0	2985.1	2965.6	2959.6
3206.3	20°	3213.6	3213.6	3263.4	3299.9	3194.1	3058.0	2966.8	2903.6	2863.5	2846.5
3434.8	22.5°	3426.3	3406.8	3438.4	3412.9	3188.1	2989.9	2863.5	2754.1	2693.4	2669.1
3754.4	25°	3696.1	3673.0	3664.5	3506.5	3144.3	2881.8	2676.4	2543.9	2490.4	2477.0
4215.1	27.5°	4103.3	4044.9	3934.3	3557.5	3064.1	2711.6	2457.6	2334.8	2304.4	2305.7
4807.0	30°	4645.3	4528.7	4257.6	3566.0	2932.8	2471.0	2233.9	2146.4	2131.8	2137.9
5304.1	32.5°	5147.3	5036.7	4588.2	3527.2	2731.1	2235.2	2033.4	1975.1	1953.2	1960.5
5683.3	35°	5541.1	5510.7	4894.5	3472.5	2483.1	2014.0	1853.5	1803.7	1761.1	1751.4
6040.6	37.5°	5913.0	5900.9	5124.2	3395.9	2237.6	1857.2	1708.9	1643.3	1581.3	1547.2
6435.7	40°	6321.4	6309.3	5274.9	3278.0	2020.0	1721.0	1578.8	1492.5	1416.0	1354.0
6882.9	42.5°	6780.8	6709.1	5346.6	3109.0	1835.3	1605.6	1473.1	1356.4	1255.5	1198.4
7388.5	45°	7282.8	7121.2	5345.4	2893.9	1679.7	1499.8	1360.1	1194.8	1101.2	1047.7
7907.5	47.5°	7815.2	7515.0	5279.8	2655.7	1529.0	1383.2	1185.0	1058.6	996.6	963.8
8471.5	50°	8364.5	7883.2	5168.0	2382.2	1374.6	1250.7	1075.6	989.4	942.0	911.6
9030.6	52.5°	8881.1	8217.5	5033.1	2072.3	1217.9	1121.8	1027.0	960.2	910.4	876.3
9572.7	55°	9361.2	8505.5	4842.2	1755.1	1090.2	1035.5	1003.9	948.0	890.9	850.8
10123.2	57.5°	9787.8	8692.7	4512.9	1457.3	999.1	976.0	979.6	927.4	861.7	827.7
10665.3	60°	10142.7	8830.0	4025.5	1181.4	924.9	917.6	942.0	888.5	811.9	773.0
11123.5	62.5°	10355.4	8827.6	3427.5	967.5	861.7	864.2	892.1	839.9	762.1	725.6
11363.0	65°	10337.2	8611.3	2771.2	827.7	801.0	803.4	839.9	786.4	720.7	698.9
11242.7	67.5°	9971.3	8083.8	2125.8	736.5	734.1	745.1	787.6	749.9	695.2	692.8
10525.6	70°	8980.8	6988.7	1531.4	663.6	664.8	680.6	736.5	726.8	681.9	686.7
8849.5	72.5°	7201.4	5328.4	1028.2	587.0	588.3	613.8	687.9	708.6	668.5	732.9
6278.9	75°	4796.1	3323.0	661.2	505.6	506.8	539.6	645.4	673.3	632.0	730.5
3267.1	77.5°	2304.4	1493.8	478.9	425.4	425.4	455.8	557.9	602.8	538.4	567.6
1050.1	80°	796.1	561.5	376.8	342.7	335.5	356.1	470.4	522.6	464.3	427.8
342.7	82.5°	313.6	291.7	302.6	266.2	241.9	255.2	365.8	431.5	341.5	308.7
193.3	85°	179.9	189.6	213.9	176.2	139.8	156.8	268.6	309.9	257.7	227.3
63.2	87.5°	48.6	66.8	98.4	91.2	63.2	66.8	127.6	171.4	148.3	114.2
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>
2565.8
2631.4
2735.9
2862.3
2979.0
3020.3
3021.5
2968.1
2842.9
2665.4
2479.5
2309.3
2158.6
1970.2
1758.7
1548.4
1360.1
1202.1
1045.3
956.5
900.6
861.7
835.0
805.8
756.0
714.7
697.7
696.4
685.5
742.6
736.5
520.2
401.1
307.5
232.1
117.9
0.0

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