

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: P953501

Luminaire Tested: **GALN-SB7A-740-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25998 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

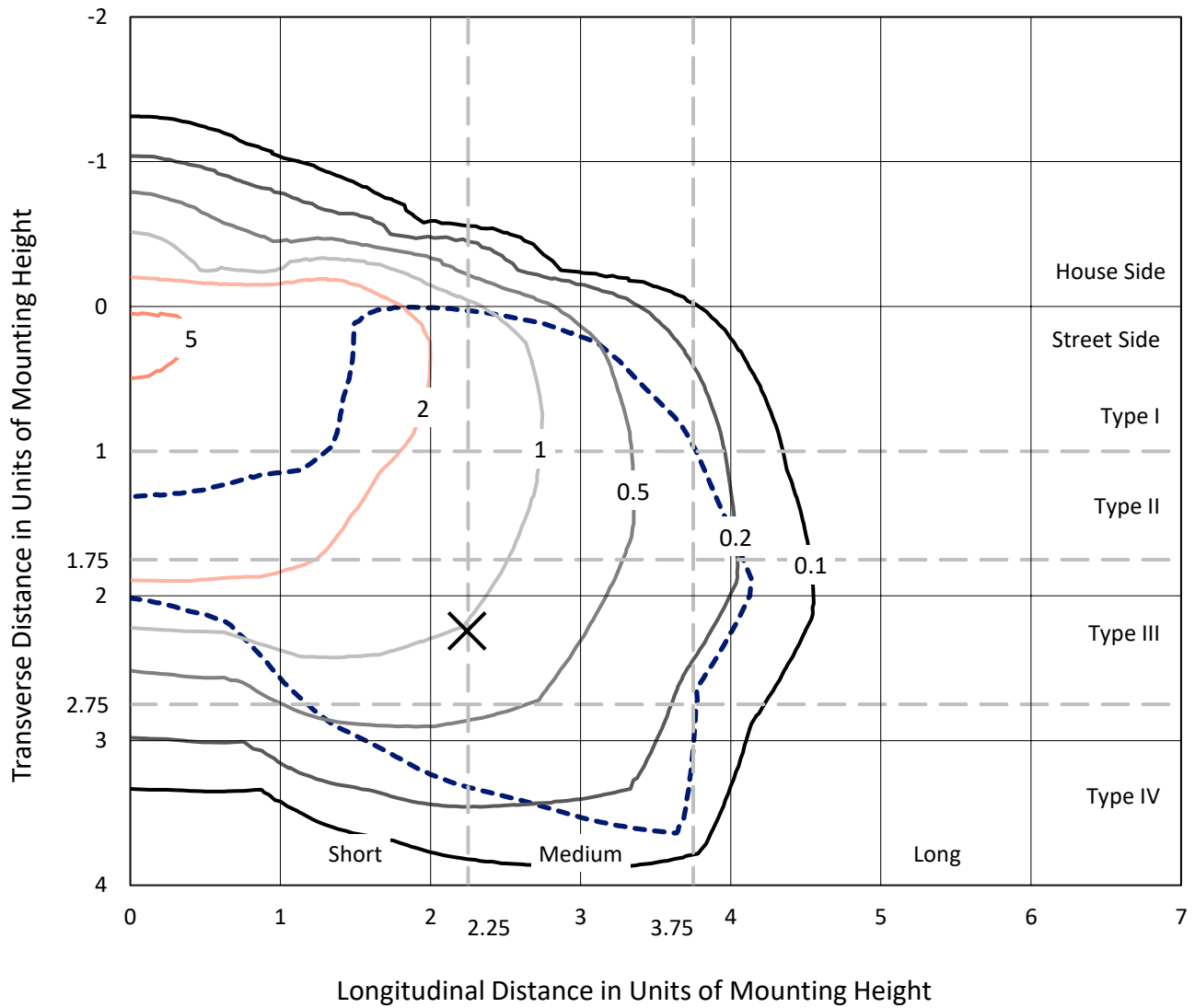
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

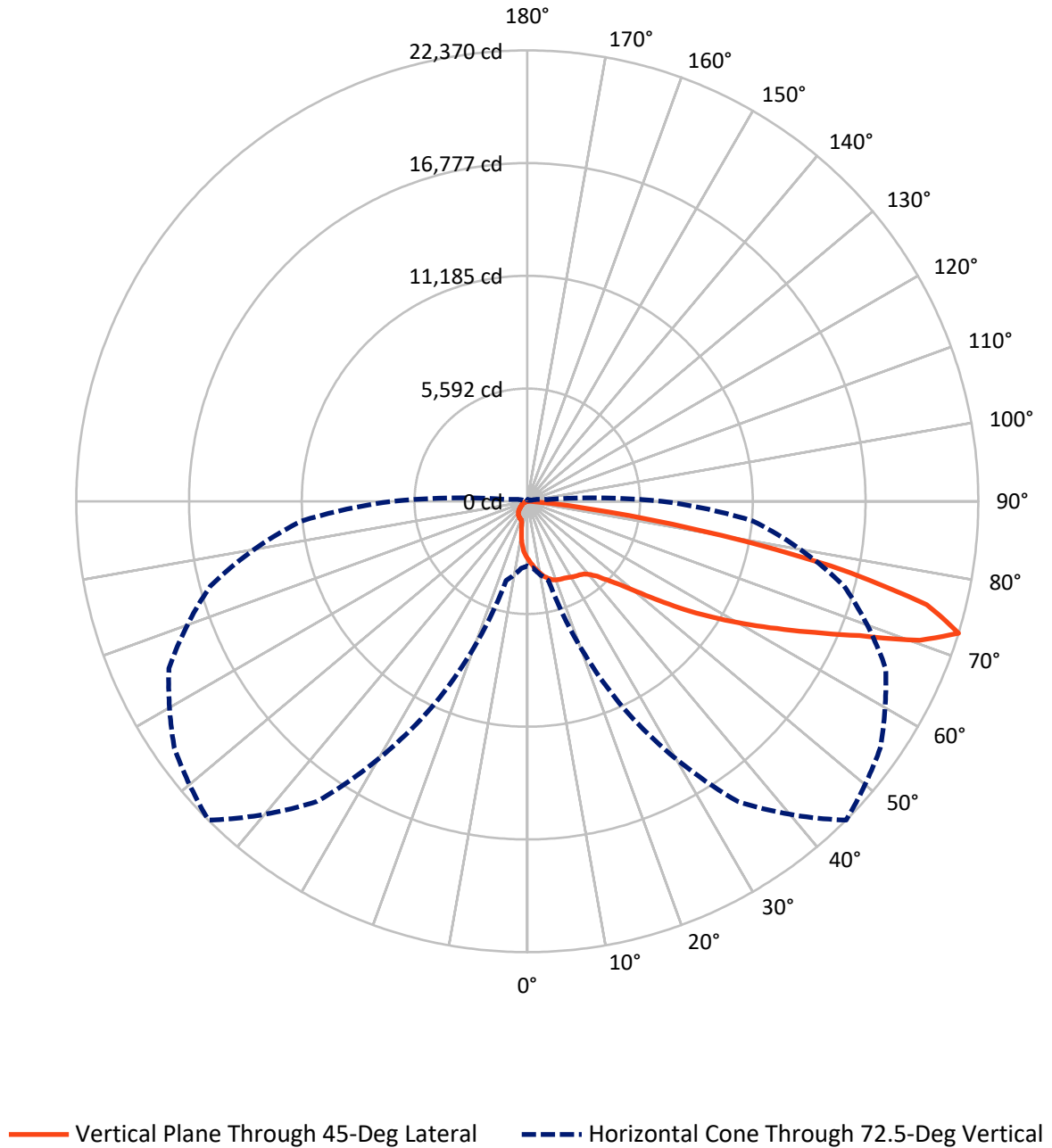
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P953501
CATALOG NUMBER: GALN-SB7A-740-U-T4W-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2731.7	0.0	2731.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	23266.3	0.0	23266.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	25998.0	0.0	25998.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.3	1.0
10°-20°	784.3	3.0
20°-30°	1287.9	5.0
30°-40°	1826.6	7.0
40°-50°	3019.1	11.6
50°-60°	5423.5	20.9
60°-70°	7530.8	29.0
70°-80°	5462.6	21.0
80°-90°	394.9	1.5
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°	25998.0	100.0
0°-180°	25998.0	100.0

Coefficient of Utilization



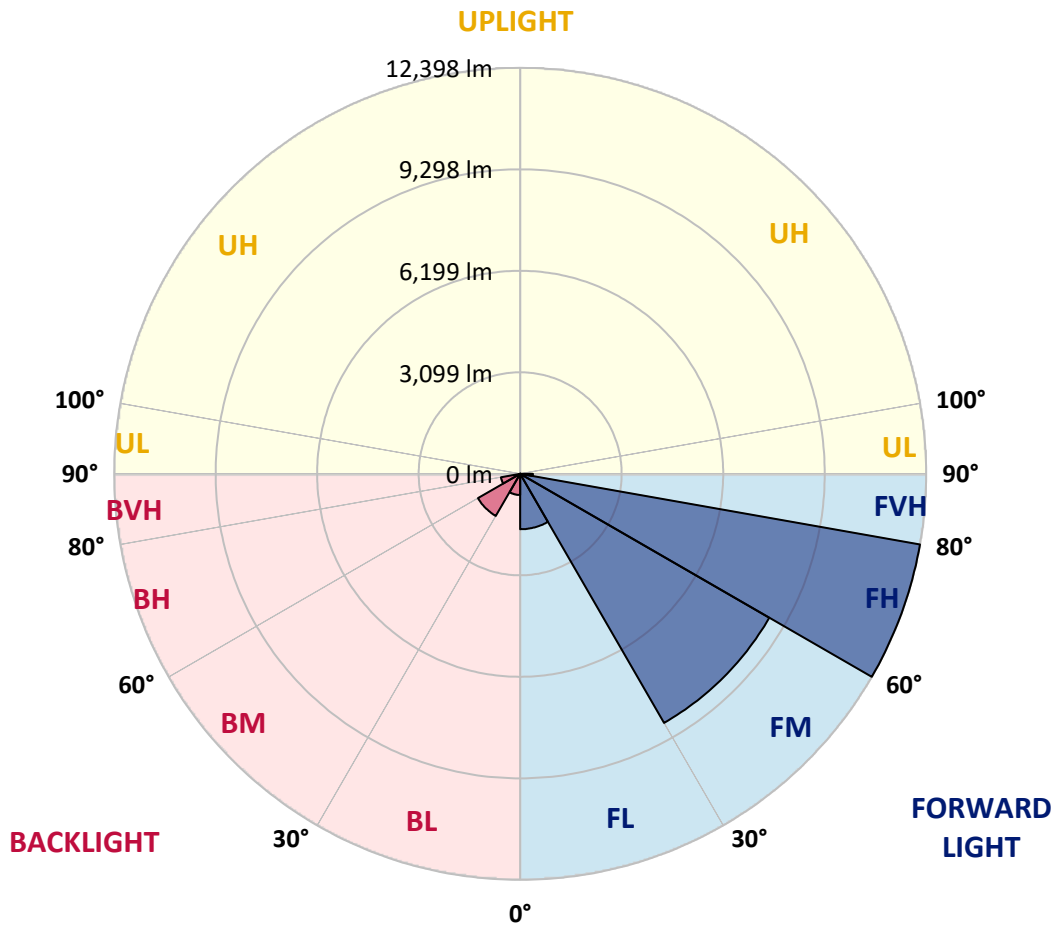
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1693.5	6.5			
FM (30°-60°)	8783.5	33.8			
FH (60°-80°)	12397.7	47.7			G5
FVH (80°-90°)	391.6	1.5			G3/500
BL (0°-30°)	647.0	2.5	B2/1000		
BM (30°-60°)	1485.6	5.7	B2/2500		
BH (60°-80°)	595.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.3	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-G5

Type IV Short



REPORT NUMBER: P953501
 CATALOG NUMBER: GALN-SB7A-740-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2848.1	2848.1	2848.1	2848.1	2848.1	2848.1	2848.1	2848.1	2848.1	2848.1
2.5°	3110.8	3116.1	3112.5	3091.2	3055.8	3036.2	3025.6	2990.1	2967.0	2926.2
5°	3396.5	3417.8	3405.3	3362.8	3295.3	3247.4	3233.2	3160.5	3094.8	3018.5
7.5°	3699.9	3710.6	3687.5	3632.5	3542.0	3460.4	3447.9	3346.8	3242.1	3125.0
10°	3962.5	3975.0	3939.5	3859.6	3756.7	3655.6	3637.8	3526.0	3401.8	3258.1
12.5°	4182.6	4195.0	4148.9	4053.0	3939.5	3834.8	3817.0	3699.9	3563.3	3403.6
15°	4349.4	4372.5	4310.4	4207.4	4085.0	3980.3	3971.4	3856.1	3723.0	3545.5
17.5°	4447.0	4470.1	4411.5	4287.3	4182.6	4093.9	4083.2	3987.4	3863.2	3692.8
20°	4463.0	4484.3	4422.2	4313.9	4227.0	4156.0	4150.6	4081.4	3990.9	3827.7
22.5°	4415.1	4441.7	4384.9	4297.9	4237.6	4200.3	4193.2	4154.2	4102.7	3964.3
25°	4365.4	4386.7	4344.1	4267.8	4235.8	4232.3	4237.6	4230.5	4219.9	4102.7
27.5°	4361.8	4384.9	4337.0	4264.2	4246.5	4283.7	4289.1	4322.8	4331.7	4228.7
30°	4392.0	4408.0	4361.8	4285.5	4276.6	4361.8	4363.6	4423.9	4438.1	4335.2
32.5°	4457.6	4475.4	4429.3	4317.5	4305.0	4423.9	4429.3	4509.1	4532.2	4448.8
35°	4612.0	4633.3	4580.1	4406.2	4361.8	4482.5	4498.5	4592.5	4638.6	4569.4
37.5°	4997.1	4935.0	4862.2	4585.4	4491.4	4574.8	4601.4	4711.4	4793.0	4713.2
40°	5953.6	5758.4	5531.2	4890.6	4718.5	4771.7	4793.0	4903.1	5014.8	4936.8
42.5°	7389.2	7158.5	6792.9	5593.3	5061.0	5087.6	5103.6	5199.4	5357.3	5295.2
45°	8668.6	8585.2	8212.6	6792.9	5701.6	5570.3	5589.8	5639.5	5872.0	5848.9
47.5°	9651.7	9603.8	9316.3	8170.0	6784.1	6161.2	6216.2	6239.3	6574.7	6656.3
50°	10407.7	10389.9	10132.6	9394.4	8198.4	7032.5	7052.0	7002.3	7504.5	7706.8
52.5°	11121.0	11181.4	10991.5	10531.9	9708.5	8173.5	8170.0	7935.7	8613.6	8918.8
55°	11765.2	11786.5	11806.0	11692.4	11227.5	9472.5	9438.8	9055.5	9900.2	10216.0
57.5°	12370.3	12379.2	12553.1	12785.6	12808.6	10867.3	10805.2	10345.6	11305.6	11531.0
60°	12776.7	12817.5	13184.8	13830.8	14112.9	12306.4	12272.7	11804.2	12735.9	12840.6
62.5°	12191.1	12439.5	13365.8	14647.1	15344.4	13901.7	13885.8	13445.7	14240.7	14155.5
65°	9868.2	10288.8	11917.8	15198.9	16552.9	15683.4	15706.5	15238.0	15786.3	15509.5
67.5°	6903.0	7346.6	9273.7	15243.3	17903.3	17775.6	17908.7	17174.0	17427.8	16806.7
70°	4773.5	5002.4	6257.0	14288.6	18955.6	20657.4	20653.9	19551.9	19060.3	17397.6
72.5°	3210.1	3329.0	4063.7	11335.8	18181.9	22369.8	22266.9	21369.0	19610.4	16270.8
75°	1354.0	1440.9	1881.0	6370.6	14384.4	20465.8	20187.2	18884.7	17424.2	12812.2
77.5°	429.4	466.7	741.8	2280.3	7923.3	15383.5	15088.9	11793.6	11678.2	6427.4
80°	204.1	237.8	417.0	915.7	3117.9	8367.0	8326.1	5350.2	5023.7	1735.5
82.5°	88.7	104.7	230.7	489.8	1394.8	2984.8	3045.1	1820.7	1506.6	658.4
85°	28.4	37.3	106.5	225.4	589.1	741.8	732.9	433.0	606.9	358.5
87.5°	0.0	0.0	35.5	51.5	60.3	42.6	47.9	37.3	168.6	99.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953501
 CATALOG NUMBER: GALN-SB7A-740-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2848.1	0°	2848.1	2848.1	2848.1	2848.1	2848.1	2848.1	2848.1	2848.1	2848.1	2848.1
2883.6	2.5°	2862.3	2833.9	2784.3	2738.1	2697.3	2656.5	2631.6	2596.2	2592.6	2592.6
2929.8	5°	2881.9	2835.7	2747.0	2652.9	2544.7	2441.8	2338.8	2239.5	2207.5	2184.5
3004.3	7.5°	2938.6	2865.9	2725.7	2546.5	2340.6	2115.3	1957.3	1787.0	1721.3	1685.8
3103.7	10°	3020.3	2920.9	2707.9	2393.9	2060.2	1753.2	1527.9	1343.3	1272.3	1242.2
3211.9	12.5°	3110.8	2988.3	2676.0	2204.0	1753.2	1385.9	1165.9	1080.7	1070.0	1070.0
3341.5	15°	3219.0	3070.0	2621.0	1980.4	1432.1	1096.7	1018.6	1022.1	1032.8	1039.9
3467.5	17.5°	3330.8	3156.9	2534.0	1730.2	1148.1	986.6	988.4	993.7	1002.6	1009.7
3604.1	20°	3451.5	3243.9	2418.7	1464.0	984.9	954.7	960.0	965.3	972.4	976.0
3731.9	22.5°	3581.0	3325.5	2282.1	1203.1	929.9	928.1	929.9	935.2	944.1	944.1
3880.9	25°	3719.4	3416.0	2125.9	1013.3	901.5	901.5	905.0	908.6	915.7	915.7
4024.7	27.5°	3861.4	3499.4	1960.9	913.9	876.6	874.8	874.8	880.2	883.7	885.5
4166.6	30°	4017.6	3597.0	1795.8	892.6	857.1	848.2	842.9	846.5	850.0	851.8
4315.7	32.5°	4177.3	3691.0	1648.5	901.5	837.6	821.6	803.9	800.3	800.3	807.4
4470.1	35°	4354.7	3794.0	1535.0	931.6	826.9	782.6	754.2	738.2	740.0	750.6
4654.6	37.5°	4567.7	3918.2	1451.6	958.3	819.8	738.2	692.1	672.6	660.1	672.6
4908.4	40°	4846.3	4101.0	1391.2	979.5	811.0	686.7	624.6	592.7	569.6	576.7
5302.3	42.5°	5256.2	4388.4	1368.2	981.3	791.4	626.4	555.4	512.8	479.1	480.9
5895.0	45°	5831.1	4842.7	1487.1	958.3	748.9	560.8	482.7	425.9	404.6	399.3
6780.5	47.5°	6619.0	5504.6	1762.1	910.3	686.7	496.9	411.7	363.8	347.8	338.9
7942.8	50°	7674.9	6354.6	2067.3	857.1	624.6	436.5	353.1	323.0	312.3	303.4
9321.7	52.5°	8899.3	7217.1	2317.5	803.9	562.5	383.3	315.9	298.1	289.2	282.2
10652.6	55°	10022.6	7811.5	2303.4	747.1	502.2	340.7	289.2	278.6	268.0	260.9
11798.9	57.5°	10721.8	7894.9	1898.8	685.0	433.0	307.0	264.4	257.3	244.9	236.0
12790.9	60°	11043.0	7419.4	1330.9	603.3	363.8	275.1	237.8	234.2	218.3	205.8
13729.6	62.5°	11101.5	6535.6	887.3	502.2	303.4	244.9	211.2	205.8	184.6	163.3
14492.7	65°	10863.7	5272.2	614.0	392.2	259.1	212.9	181.0	170.4	147.3	126.0
14673.7	67.5°	10111.3	3701.7	427.7	282.2	220.0	168.6	143.7	140.2	122.4	104.7
13750.9	70°	8732.5	2109.9	285.7	211.2	173.9	115.3	113.6	117.1	99.4	85.2
11234.6	72.5°	6695.3	965.3	177.5	154.4	118.9	78.1	90.5	92.3	76.3	63.9
7009.4	75°	3941.3	413.5	111.8	99.4	60.3	51.5	65.7	67.4	51.5	40.8
2562.4	77.5°	1341.6	156.2	71.0	58.6	30.2	28.4	42.6	42.6	28.4	16.0
514.6	80°	305.2	58.6	35.5	23.1	14.2	12.4	14.2	12.4	7.1	1.8
157.9	82.5°	87.0	23.1	14.2	8.9	5.3	5.3	1.8	0.0	0.0	0.0
55.0	85°	24.8	10.6	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
19.5	87.5°	10.6	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>
2848.1
2601.5
2195.1
1691.1
1242.2
1070.0
1039.9
1009.7
977.8
947.6
917.4
887.3
855.3
812.7
756.0
669.0
573.2
473.8
392.2
333.6
301.7
280.4
257.3
234.2
202.3
152.6
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