

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: P956966

Luminaire Tested: **GALN-SB9B-950-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956966
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-SB9B-950-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 450mA 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: 27484 lumens
Efficiency: N/A
Efficacy: 83.4 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

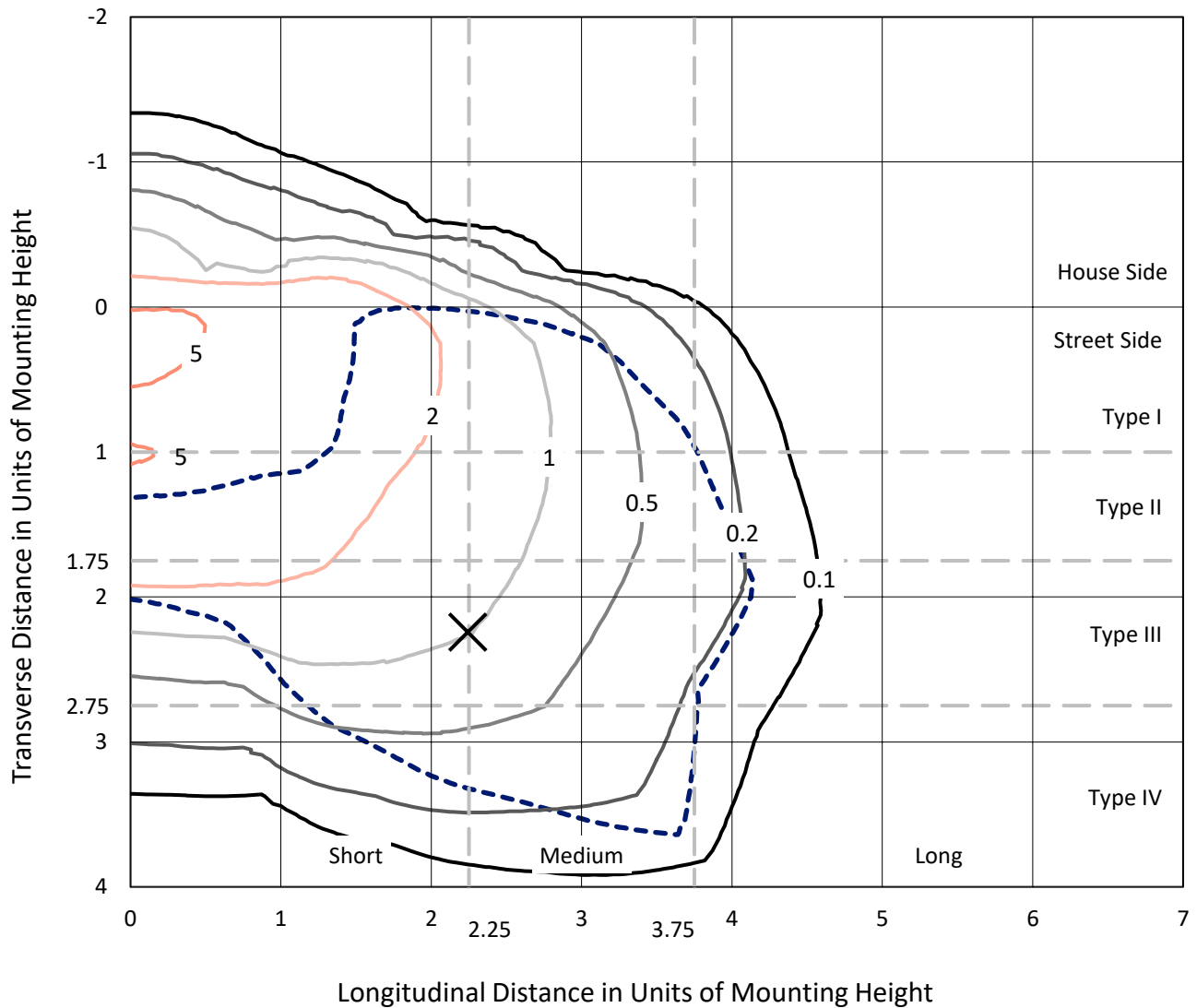
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

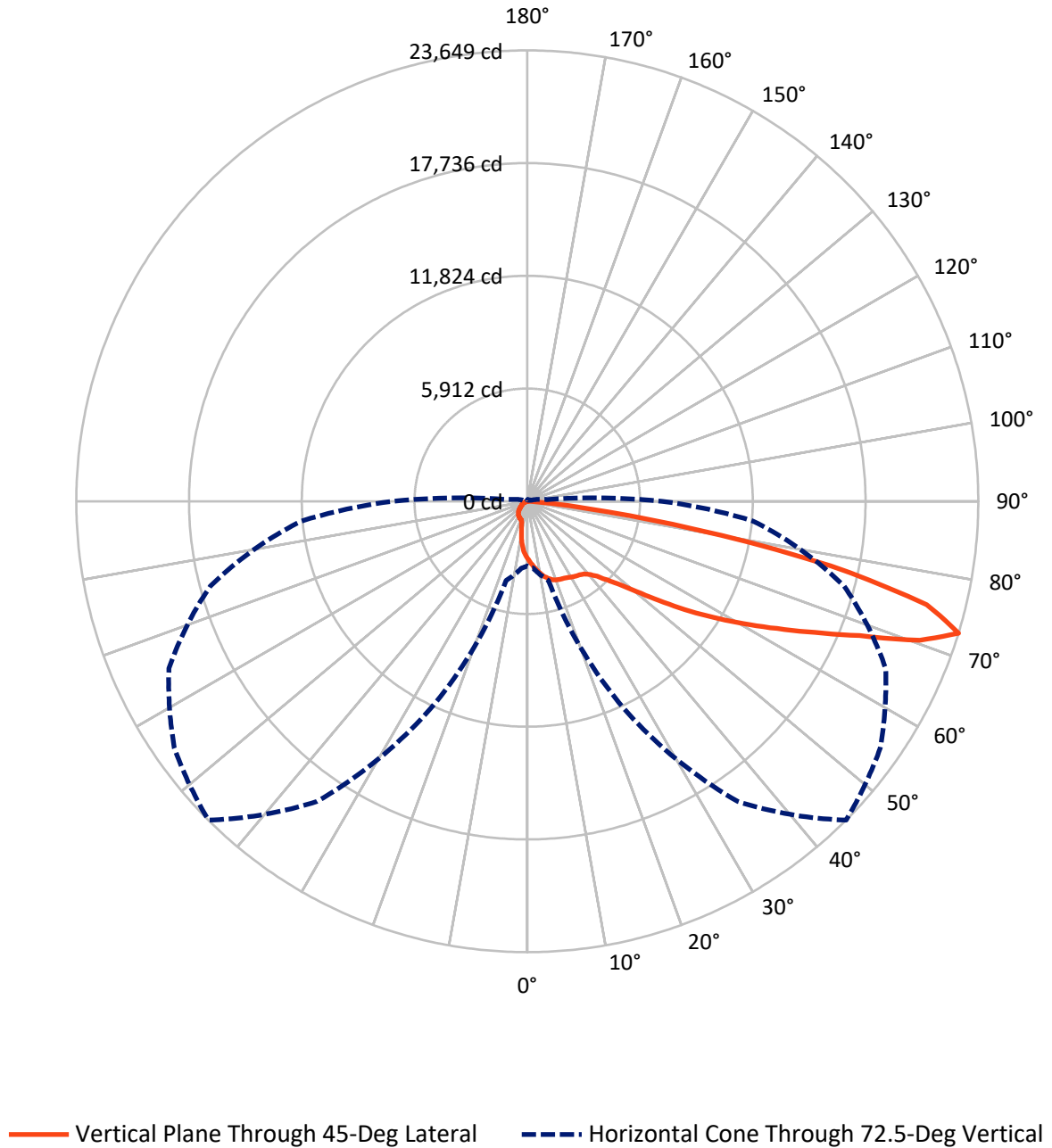
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	2887.8	0.0	2887.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	24596.2	0.0	24596.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	27484.0	0.0	27484.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.7	1.0
10°-20°	829.1	3.0
20°-30°	1361.5	5.0
30°-40°	1931.0	7.0
40°-50°	3191.7	11.6
50°-60°	5733.5	20.9
60°-70°	7961.2	29.0
70°-80°	5774.8	21.0
80°-90°	417.5	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°	27484.0	100.0
0°-180°	27484.0	100.0

Coefficient of Utilization



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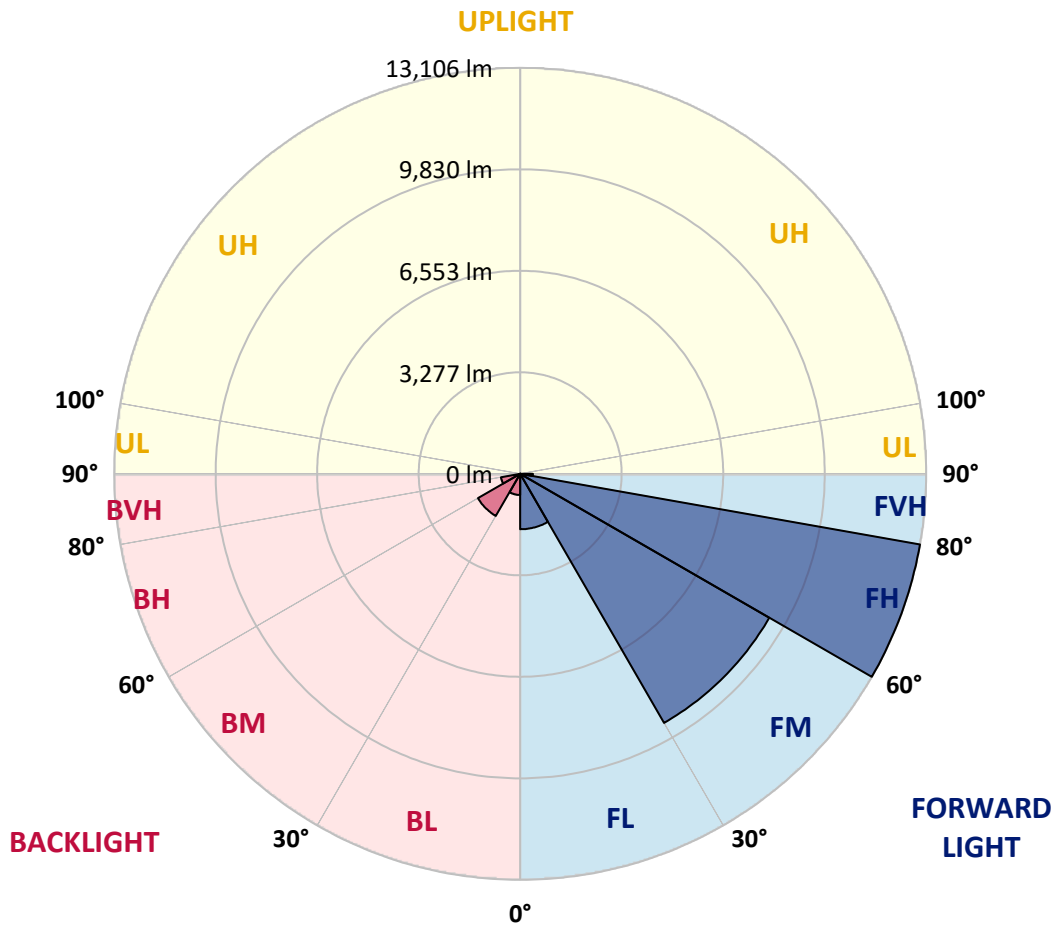
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1790.3	6.5			
FM (30°-60°)	9285.6	33.8			
FH (60°-80°)	13106.3	47.7			G5
FVH (80°-90°)	414.0	1.5			G3/500
BL (0°-30°)	684.0	2.5	B2/1000		
BM (30°-60°)	1570.6	5.7	B2/2500		
BH (60°-80°)	629.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3010.9	3010.9	3010.9	3010.9	3010.9	3010.9	3010.9	3010.9	3010.9	3010.9
2.5°	3288.6	3294.2	3290.5	3267.9	3230.4	3209.8	3198.5	3161.0	3136.6	3093.5
5°	3590.6	3613.1	3600.0	3555.0	3483.7	3433.0	3418.0	3341.1	3271.7	3191.0
7.5°	3911.4	3922.7	3898.3	3840.1	3744.4	3658.1	3645.0	3538.1	3427.4	3303.6
10°	4189.0	4202.2	4164.7	4080.2	3971.4	3864.5	3845.7	3727.6	3596.2	3444.3
12.5°	4421.7	4434.8	4386.0	4284.7	4164.7	4054.0	4035.2	3911.4	3766.9	3598.1
15°	4598.0	4622.4	4556.7	4447.9	4318.5	4207.8	4198.4	4076.5	3935.8	3748.2
17.5°	4701.2	4725.6	4663.7	4532.3	4421.7	4327.9	4316.6	4215.3	4084.0	3903.9
20°	4718.1	4740.6	4674.9	4560.5	4468.6	4393.5	4387.9	4314.7	4219.1	4046.5
22.5°	4667.4	4695.6	4635.5	4543.6	4479.8	4440.4	4432.9	4391.6	4337.2	4190.9
25°	4614.9	4637.4	4592.4	4511.7	4477.9	4474.2	4479.8	4472.3	4461.1	4337.2
27.5°	4611.1	4635.5	4584.9	4508.0	4489.2	4528.6	4534.2	4569.9	4579.2	4470.4
30°	4643.0	4659.9	4611.1	4530.5	4521.1	4611.1	4613.0	4676.8	4691.8	4583.0
32.5°	4712.4	4731.2	4682.4	4564.2	4551.1	4676.8	4682.4	4766.8	4791.2	4703.1
35°	4875.6	4898.2	4841.9	4658.0	4611.1	4738.7	4755.6	4855.0	4903.8	4830.6
37.5°	5282.7	5217.1	5140.2	4847.5	4748.1	4836.2	4864.4	4980.7	5067.0	4982.6
40°	6293.9	6087.5	5847.4	5170.2	4988.2	5044.5	5067.0	5183.3	5301.5	5218.9
42.5°	7811.5	7567.7	7181.2	5913.1	5350.3	5378.4	5395.3	5496.6	5663.6	5597.9
45°	9164.1	9075.9	8682.0	7181.2	6027.5	5888.7	5909.3	5961.8	6207.6	6183.2
47.5°	10203.4	10152.7	9848.8	8637.0	7171.8	6513.4	6571.5	6595.9	6950.5	7036.8
50°	11002.6	10983.8	10711.8	9931.4	8667.0	7434.5	7455.1	7402.6	7933.5	8147.3
52.5°	11756.7	11820.5	11619.8	11133.9	10263.4	8640.7	8637.0	8389.3	9106.0	9428.6
55°	12437.7	12460.2	12480.8	12360.8	11869.3	10013.9	9978.3	9573.1	10466.0	10800.0
57.5°	13077.4	13086.8	13270.6	13516.4	13540.7	11488.4	11422.8	10936.9	11951.8	12190.0
60°	13507.0	13550.1	13938.5	14621.3	14919.6	13009.8	12974.2	12478.9	13463.8	13574.5
62.5°	12887.9	13150.5	14129.8	15484.3	16221.5	14696.3	14679.5	14214.2	15054.7	14964.6
65°	10432.3	10876.9	12599.0	16067.7	17499.0	16579.8	16604.2	16108.9	16688.6	16396.0
67.5°	7297.5	7766.5	9803.8	16114.6	18926.7	18791.6	18932.3	18155.6	18423.9	17767.3
70°	5046.4	5288.4	6614.7	15105.3	20039.1	21838.2	21834.4	20669.4	20149.8	18392.0
72.5°	3393.6	3519.3	4296.0	11983.7	19221.2	23648.5	23539.7	22590.4	20731.3	17200.8
75°	1431.4	1523.3	1988.5	6734.7	15206.6	21635.6	21341.0	19964.1	18420.1	13544.5
77.5°	454.0	493.4	784.2	2410.6	8376.2	16262.8	15951.4	12467.7	12345.8	6794.8
80°	215.7	251.4	440.9	968.0	3296.1	8845.2	8802.0	5656.0	5310.9	1834.7
82.5°	93.8	110.7	243.9	517.8	1474.5	3155.4	3219.2	1924.7	1592.7	696.0
85°	30.0	39.4	112.6	238.2	622.8	784.2	774.8	457.7	641.6	378.9
87.5°	0.0	0.0	37.5	54.4	63.8	45.0	50.7	39.4	178.2	105.1
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°
3010.9	0°	3010.9	3010.9	3010.9	3010.9	3010.9	3010.9	3010.9	3010.9	3010.9	3010.9
3048.5	2.5°	3025.9	2995.9	2943.4	2894.6	2851.5	2808.3	2782.1	2744.5	2740.8	2740.8
3097.2	5°	3046.6	2997.8	2904.0	2804.6	2690.1	2581.3	2472.5	2367.5	2333.7	2309.3
3176.0	7.5°	3106.6	3029.7	2881.5	2692.0	2474.4	2236.2	2069.2	1889.1	1819.7	1782.2
3281.1	10°	3192.9	3087.8	2862.7	2530.7	2178.0	1853.5	1615.2	1420.1	1345.1	1313.2
3395.5	12.5°	3288.6	3159.1	2829.0	2330.0	1853.5	1465.1	1232.5	1142.5	1131.2	1131.2
3532.5	15°	3403.0	3245.4	2770.8	2093.6	1513.9	1159.3	1076.8	1080.6	1091.8	1099.3
3665.6	17.5°	3521.2	3337.3	2678.9	1829.1	1213.8	1043.0	1044.9	1050.5	1059.9	1067.4
3810.1	20°	3648.8	3429.3	2556.9	1547.7	1041.2	1009.3	1014.9	1020.5	1028.0	1031.8
3945.2	22.5°	3785.7	3515.6	2412.5	1271.9	983.0	981.1	983.0	988.6	998.0	998.0
4102.7	25°	3932.0	3611.2	2247.4	1071.2	953.0	953.0	956.7	960.5	968.0	968.0
4254.7	27.5°	4082.1	3699.4	2072.9	966.1	926.7	924.9	924.9	930.5	934.2	936.1
4404.8	30°	4247.2	3802.6	1898.5	943.6	906.1	896.7	891.1	894.8	898.6	900.5
4562.4	32.5°	4416.0	3902.0	1742.8	953.0	885.5	868.6	849.8	846.1	846.1	853.6
4725.6	35°	4603.6	4010.8	1622.7	984.9	874.2	827.3	797.3	780.4	782.3	793.5
4920.7	37.5°	4828.7	4142.1	1534.5	1013.0	866.7	780.4	731.6	711.0	697.9	711.0
5188.9	40°	5123.3	4335.4	1470.8	1035.5	857.3	726.0	660.3	626.6	602.2	609.7
5605.4	42.5°	5556.6	4639.3	1446.4	1037.4	836.7	662.2	587.2	542.2	506.5	508.4
6232.0	45°	6164.4	5119.5	1572.1	1013.0	791.7	592.8	510.3	450.2	427.7	422.1
7168.1	47.5°	6997.4	5819.3	1862.8	962.4	726.0	525.3	435.2	384.6	367.7	358.3
8396.8	50°	8113.6	6717.8	2185.5	906.1	660.3	461.5	373.3	341.4	330.2	320.8
9854.5	52.5°	9408.0	7629.6	2450.0	849.8	594.7	405.2	333.9	315.2	305.8	298.3
11261.4	55°	10595.5	8258.0	2435.0	789.8	530.9	360.2	305.8	294.5	283.3	275.8
12473.3	57.5°	11334.6	8346.2	2007.3	724.1	457.7	324.5	279.5	272.0	258.9	249.5
13522.0	60°	11674.2	7843.4	1407.0	637.8	384.6	290.8	251.4	247.6	230.7	217.6
14514.4	62.5°	11736.1	6909.2	938.0	530.9	320.8	258.9	223.2	217.6	195.1	172.6
15321.0	65°	11484.7	5573.5	649.1	414.6	273.9	225.1	191.3	180.1	155.7	133.2
15512.4	67.5°	10689.3	3913.3	452.1	298.3	232.6	178.2	152.0	148.2	129.4	110.7
14536.9	70°	9231.6	2230.5	302.0	223.2	183.8	121.9	120.1	123.8	105.1	90.0
11876.8	72.5°	7078.0	1020.5	187.6	163.2	125.7	82.5	95.7	97.6	80.7	67.5
7410.1	75°	4166.5	437.1	118.2	105.1	63.8	54.4	69.4	71.3	54.4	43.1
2708.9	77.5°	1418.2	165.1	75.0	61.9	31.9	30.0	45.0	45.0	30.0	16.9
544.0	80°	322.7	61.9	37.5	24.4	15.0	13.1	15.0	13.1	7.5	1.9
167.0	82.5°	91.9	24.4	15.0	9.4	5.6	5.6	1.9	0.0	0.0	0.0
58.2	85°	26.3	11.3	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0
20.6	87.5°	11.3	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

<u>180°</u>
3010.9
2750.2
2320.6
1787.8
1313.2
1131.2
1099.3
1067.4
1033.7
1001.8
969.9
938.0
904.2
859.2
799.2
707.2
605.9
500.9
414.6
352.7
318.9
296.4
272.0
247.6
213.9
161.3
125.7
105.1
82.5
60.0
37.5
13.1
0.0
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