

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: P951882

Luminaire Tested: **GALN-SB5D-927-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-927-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26049 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

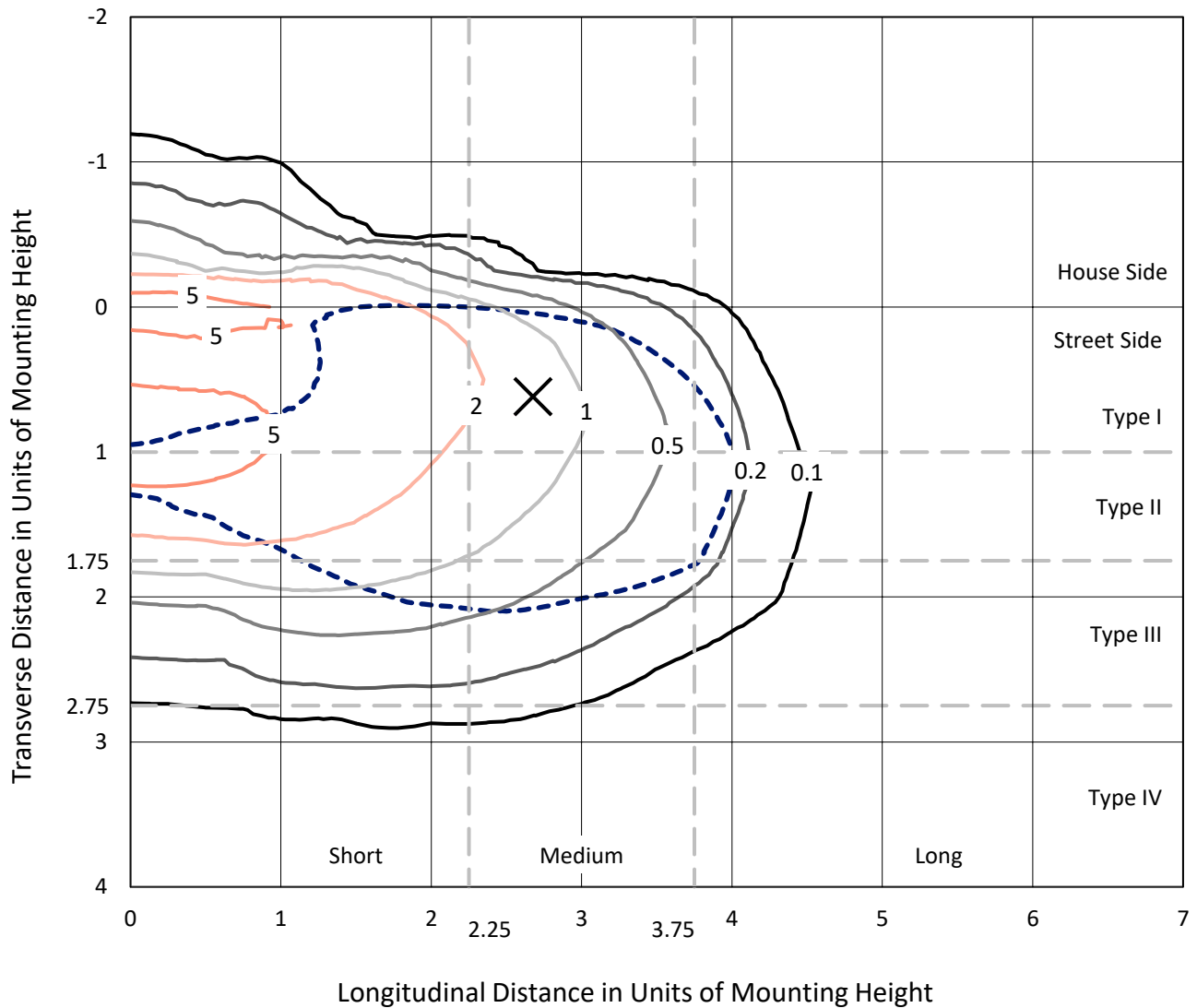
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

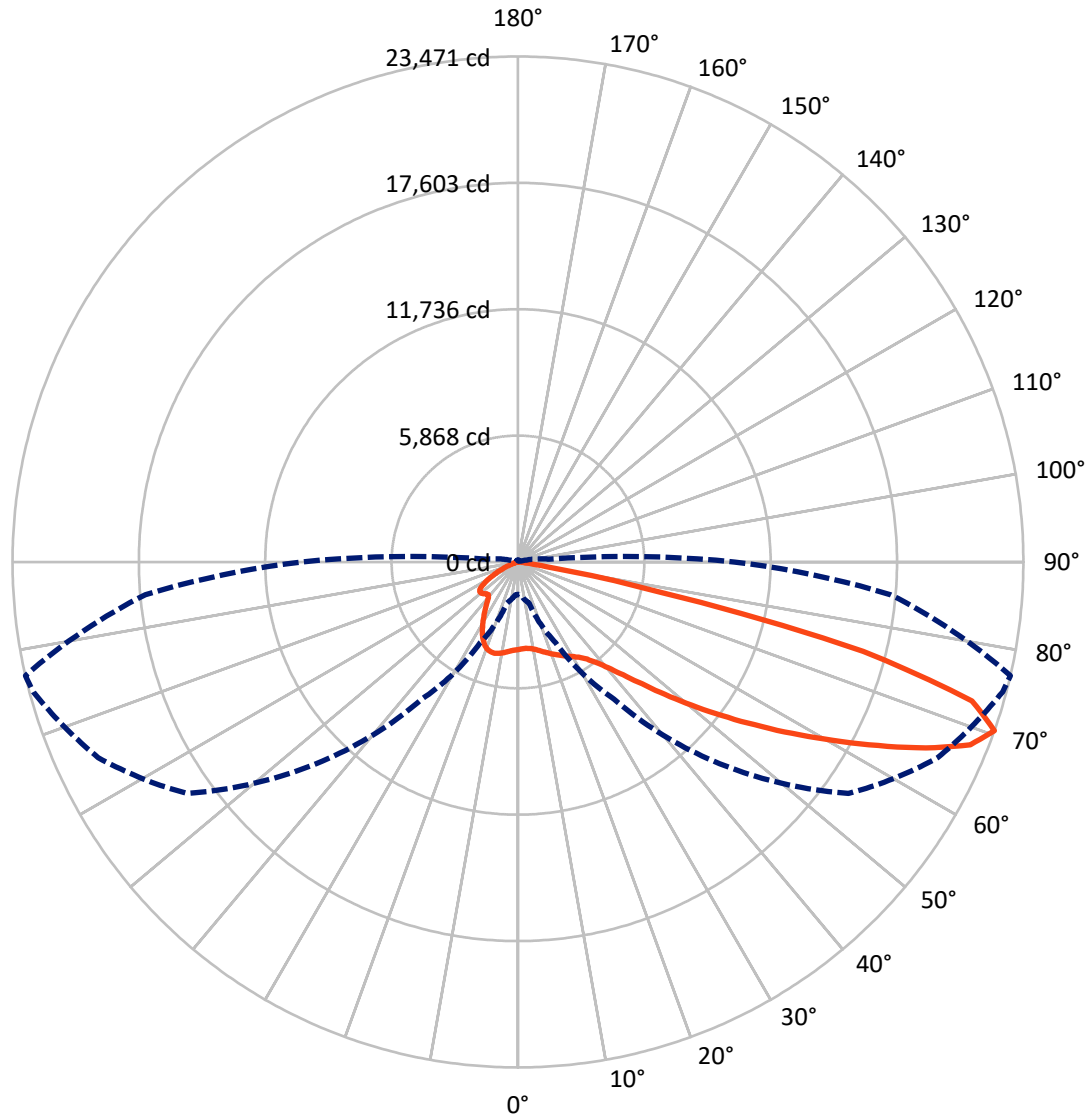
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2745.9	0.0	2745.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	23303.1	0.0	23303.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	26049.0	0.0	26049.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.2	1.3
10°-20°	831.3	3.2
20°-30°	1285.8	4.9
30°-40°	2333.1	9.0
40°-50°	4404.0	16.9
50°-60°	6363.4	24.4
60°-70°	6773.7	26.0
70°-80°	3589.6	13.8
80°-90°	117.9	0.5
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°	26049.0	100.0
0°-180°	26049.0	100.0

Coefficient of Utilization



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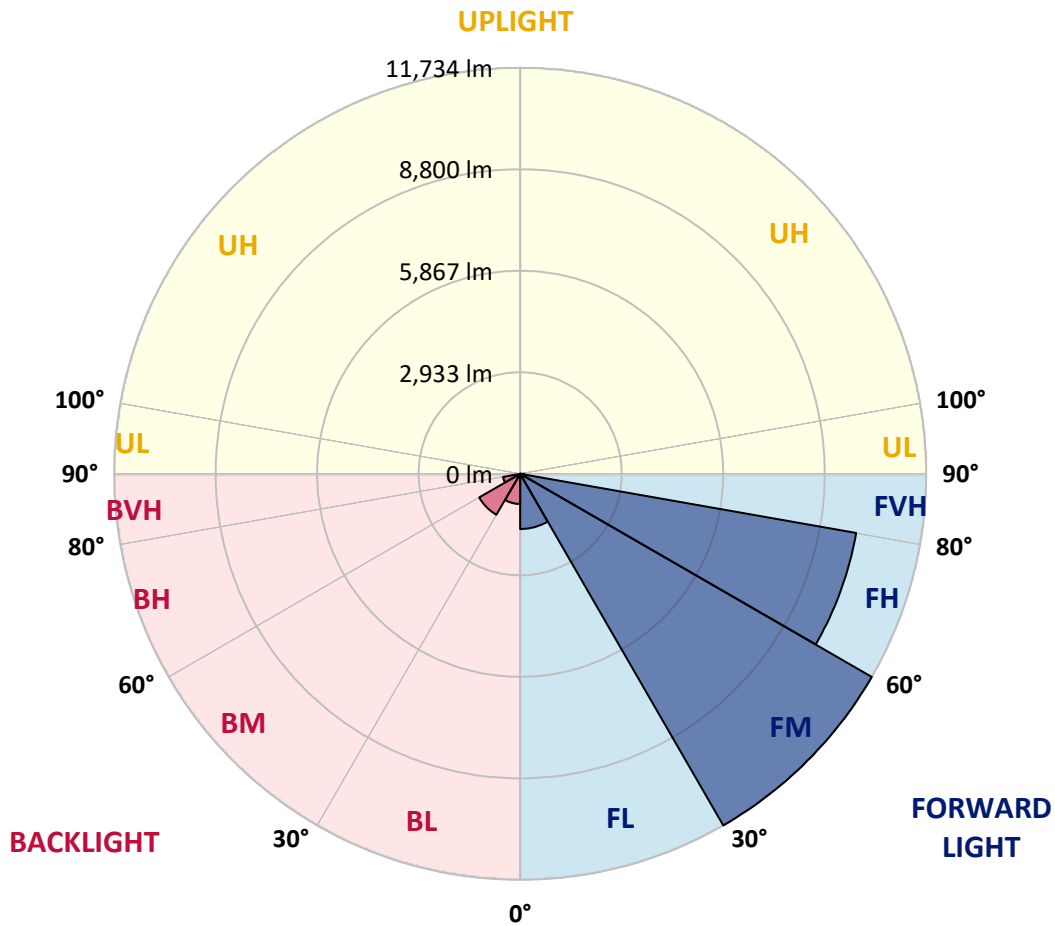
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1594.8	6.1			
FM (30°-60°)	11733.6	45.0			
FH (60°-80°)	9859.9	37.9			G4/12000
FVH (80°-90°)	114.7	0.4			G2/225
BL (0°-30°)	872.4	3.3	B2/1000		
BM (30°-60°)	1366.9	5.2	B2/2500		
BH (60°-80°)	503.4	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.2	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4063.2	4063.2	4063.2	4063.2	4063.2	4063.2	4063.2	4063.2	4063.2	4063.2
2.5°	3814.8	3849.3	3844.4	3867.4	3875.6	3908.5	3941.4	3985.9	4035.2	4033.6
5°	3599.3	3633.8	3642.1	3673.3	3712.8	3763.8	3831.2	3920.1	4012.2	4027.0
7.5°	3344.3	3380.5	3401.9	3464.4	3536.8	3642.1	3752.3	3882.2	4035.2	4056.6
10°	3089.3	3122.2	3150.2	3239.0	3354.2	3510.5	3689.8	3877.3	4082.9	4114.2
12.5°	2931.4	2962.7	2993.9	3071.2	3214.3	3405.2	3648.6	3900.3	4161.9	4206.3
15°	2875.5	2903.4	2928.1	2997.2	3130.5	3347.6	3640.4	3948.0	4262.2	4321.4
17.5°	2883.7	2898.5	2915.0	2967.6	3097.6	3321.3	3655.2	4030.3	4380.7	4433.3
20°	2931.4	2939.6	2941.3	2977.5	3092.6	3318.0	3684.8	4109.2	4492.5	4563.3
22.5°	2992.3	2995.6	2992.3	3016.9	3123.9	3342.7	3724.3	4204.6	4617.5	4683.3
25°	3276.9	3214.3	3135.4	3087.7	3176.5	3390.4	3783.5	4333.0	4754.1	4818.2
27.5°	4160.2	3980.9	3698.0	3380.5	3285.1	3459.5	3865.8	4462.9	4892.3	4949.8
30°	5594.7	5359.4	4879.1	4163.5	3633.8	3604.2	3972.7	4592.9	5038.7	5101.2
32.5°	7032.4	6974.8	6420.5	5430.2	4418.5	3926.6	4150.4	4768.9	5232.8	5282.1
35°	8486.6	8369.8	7915.8	6937.0	5627.6	4583.0	4446.5	4999.2	5487.8	5543.7
37.5°	9600.3	9529.5	9248.2	8442.2	7062.0	5596.3	4953.1	5356.2	5857.9	5920.4
40°	10584.0	10551.1	10455.7	9924.3	8665.9	6922.2	5741.1	5908.9	6371.1	6445.1
42.5°	11357.1	11434.5	11488.7	11340.7	10319.1	8435.6	6800.5	6685.3	7086.7	7162.4
45°	12148.4	12174.7	12393.5	12607.4	11960.9	10018.1	7994.7	7595.0	7976.7	8070.4
47.5°	12656.7	12762.0	13146.9	13523.6	13341.0	11587.4	9277.9	8669.2	9008.1	9184.1
50°	12694.5	12893.6	13423.3	14079.6	14346.1	13081.1	10672.8	9893.1	10253.3	10447.5
52.5°	12064.5	12373.8	13194.6	14155.3	14889.0	14346.1	12115.5	11117.0	11579.2	11832.6
55°	9249.9	9654.6	12334.3	13744.1	14910.4	15305.2	13520.3	12391.9	13056.4	13342.7
57.5°	8058.9	8262.9	9697.3	13030.1	14513.9	15691.7	14790.3	13605.9	14663.6	15018.9
60°	6705.1	6973.2	8132.9	11862.2	13976.0	15729.6	15912.2	15171.9	16405.7	16805.4
62.5°	4556.7	4847.8	6001.0	9855.3	13240.7	15711.5	16831.7	16784.0	18341.9	18771.2
65°	2822.8	3005.4	3765.4	8047.4	12212.6	15731.2	17794.1	18741.6	20385.0	20820.9
67.5°	2230.6	2314.5	2711.0	6178.7	10440.9	15287.1	18754.8	20582.4	22308.0	22653.4
70°	1498.6	1549.6	1972.4	4142.1	7767.7	13237.4	18736.7	21506.9	23298.3	23471.0
72.5°	789.6	829.1	1153.2	1918.1	4691.6	9409.5	15793.7	20401.4	22312.9	22053.0
75°	394.8	460.6	776.4	973.8	2003.6	5247.6	9807.5	16084.9	17562.1	16555.4
77.5°	299.4	361.9	641.6	641.6	697.5	1766.7	4153.6	8772.8	8091.8	6738.0
80°	190.8	246.8	560.9	485.3	291.2	449.1	1082.4	2457.6	1719.0	1307.8
82.5°	111.9	161.2	467.2	320.8	162.9	166.1	306.0	523.1	445.8	347.1
85°	44.4	105.3	320.8	126.7	64.2	41.1	92.1	111.9	92.1	69.1
87.5°	0.0	24.7	55.9	0.0	4.9	3.3	6.6	8.2	8.2	6.6
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°
4063.2	0°	4063.2	4063.2	4063.2	4063.2	4063.2	4063.2	4063.2	4063.2	4063.2	4063.2
4066.5	2.5°	4081.3	4084.6	4094.4	4096.1	4073.0	4043.4	4031.9	4027.0	4007.2	4005.6
4092.8	5°	4130.6	4145.4	4130.6	4087.8	3985.9	3842.7	3734.2	3645.3	3564.7	3540.1
4183.3	7.5°	4229.3	4244.1	4199.7	4031.9	3775.3	3490.7	3234.1	3053.1	2890.3	2829.4
4293.5	10°	4370.8	4390.5	4250.7	3911.8	3457.8	3000.5	2566.2	2260.2	2021.7	1924.7
4443.2	12.5°	4548.5	4556.7	4278.7	3729.2	3044.9	2391.8	1776.6	1449.3	1237.0	1158.1
4624.1	15°	4744.2	4732.7	4282.0	3480.8	2482.3	1691.1	1159.7	952.5	866.9	840.6
4805.1	17.5°	4949.8	4902.1	4216.2	3122.2	1865.4	1156.4	860.3	811.0	796.2	789.6
4984.4	20°	5152.2	5045.2	4096.1	2653.4	1339.0	863.6	781.4	766.6	758.3	755.1
5165.3	22.5°	5336.4	5153.8	3890.4	2108.9	972.2	763.3	738.6	725.4	710.6	704.1
5341.3	25°	5515.7	5216.3	3600.9	1600.6	778.1	713.9	694.2	669.5	649.8	641.6
5530.5	27.5°	5690.1	5255.8	3239.0	1184.4	694.2	667.9	631.7	597.1	582.3	579.0
5732.9	30°	5876.0	5269.0	2827.8	883.4	643.2	610.3	557.7	518.2	510.0	511.6
6005.9	32.5°	6103.0	5288.7	2413.2	723.8	600.4	541.2	478.7	437.6	431.0	437.6
6404.0	35°	6374.4	5328.2	2013.5	666.2	562.6	470.5	403.0	368.5	361.9	366.8
6914.0	37.5°	6742.9	5392.3	1640.1	654.7	531.3	411.3	338.9	310.9	310.9	312.6
7539.1	40°	7233.1	5563.4	1306.1	646.5	514.9	366.8	286.2	274.7	279.7	282.9
8335.3	42.5°	7830.2	5927.0	1080.8	636.6	496.8	347.1	259.9	255.0	263.2	266.5
9289.4	45°	8499.8	6387.6	1001.8	620.2	480.3	360.3	248.4	241.8	251.7	253.3
10358.6	47.5°	9192.3	6838.3	991.9	602.1	463.9	380.0	245.1	230.3	241.8	243.5
11500.3	50°	9893.1	7132.8	1001.8	574.1	437.6	380.0	246.8	218.8	228.7	233.6
12684.7	52.5°	10598.8	7267.7	995.2	513.2	391.5	357.0	246.8	208.9	218.8	222.1
13964.5	55°	11283.1	7241.3	894.9	422.8	332.3	315.8	240.2	200.7	207.3	208.9
15173.6	57.5°	11824.3	6874.5	709.0	329.0	269.8	263.2	218.8	190.8	195.8	194.1
16282.3	60°	12107.3	6068.4	506.7	253.3	212.2	207.3	192.5	177.7	181.0	172.7
17221.6	62.5°	12110.6	5002.5	338.9	200.7	169.4	164.5	164.5	159.6	156.3	139.8
17948.7	65°	11852.3	3819.7	225.4	159.6	136.5	128.3	138.2	136.5	125.0	102.0
18170.8	67.5°	11266.7	2503.7	171.1	125.0	105.3	100.3	110.2	115.2	106.9	85.5
17361.4	70°	10062.5	1457.5	141.5	97.1	79.0	74.0	88.8	98.7	88.8	69.1
14839.6	72.5°	8358.3	786.3	115.2	72.4	54.3	49.4	70.7	80.6	70.7	51.0
9521.3	75°	5423.6	421.1	88.8	47.7	28.0	31.3	52.6	59.2	49.4	32.9
2794.9	77.5°	1821.0	185.9	55.9	23.0	13.2	13.2	31.3	36.2	23.0	11.5
508.3	80°	406.3	77.3	23.0	9.9	4.9	4.9	6.6	6.6	3.3	0.0
156.3	82.5°	133.2	31.3	9.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0
39.5	85°	51.0	11.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.2	87.5°	19.7	1.6	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°
4063.2
4008.9
3525.3
2804.7
1883.5
1133.4
840.6
788.0
751.8
702.4
638.3
575.8
511.6
435.9
365.2
310.9
282.9
266.5
255.0
245.1
235.2
222.1
208.9
194.1
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