

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: P944396

Luminaire Tested: **GALN-SB9B-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944396
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34978 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

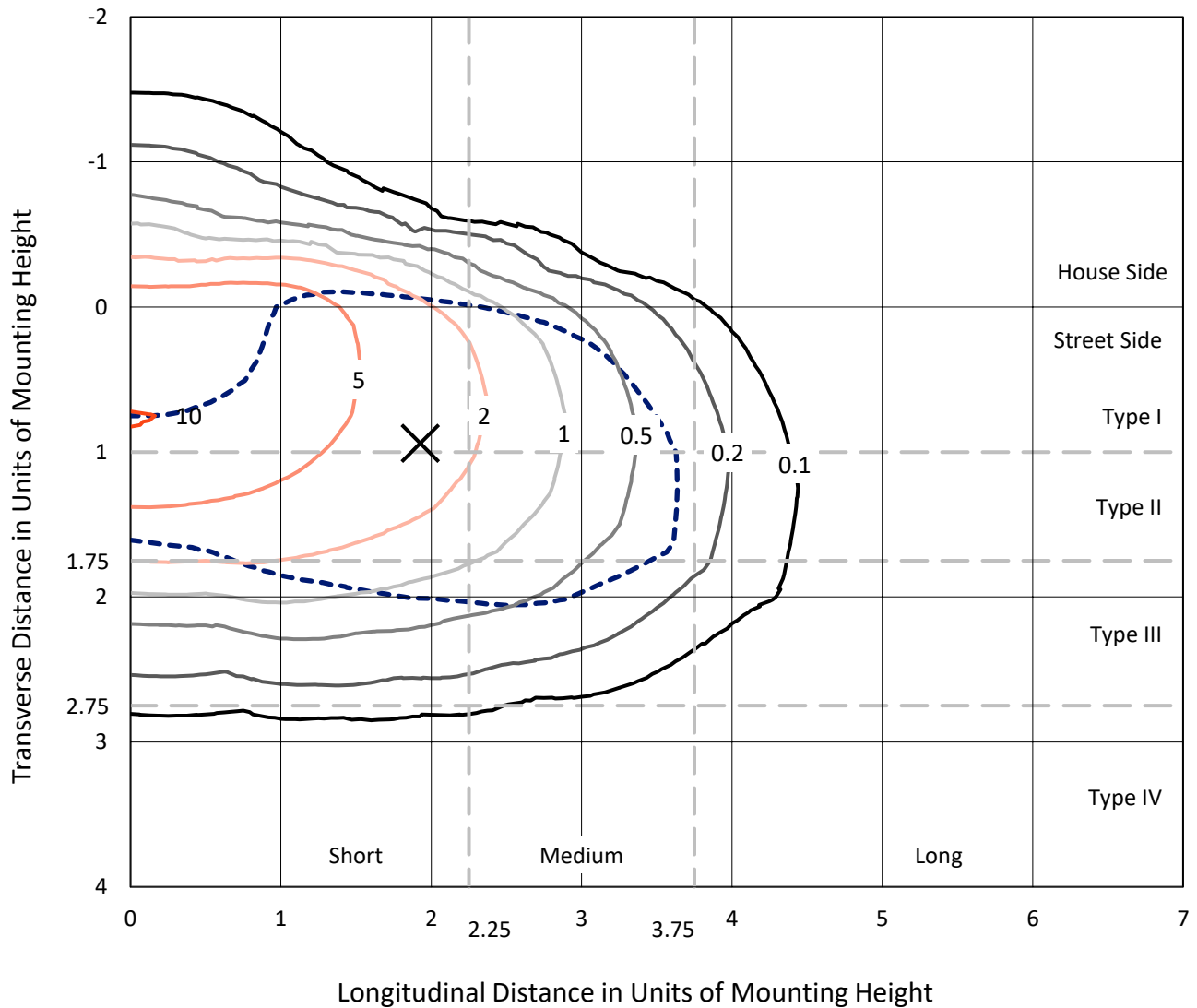
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

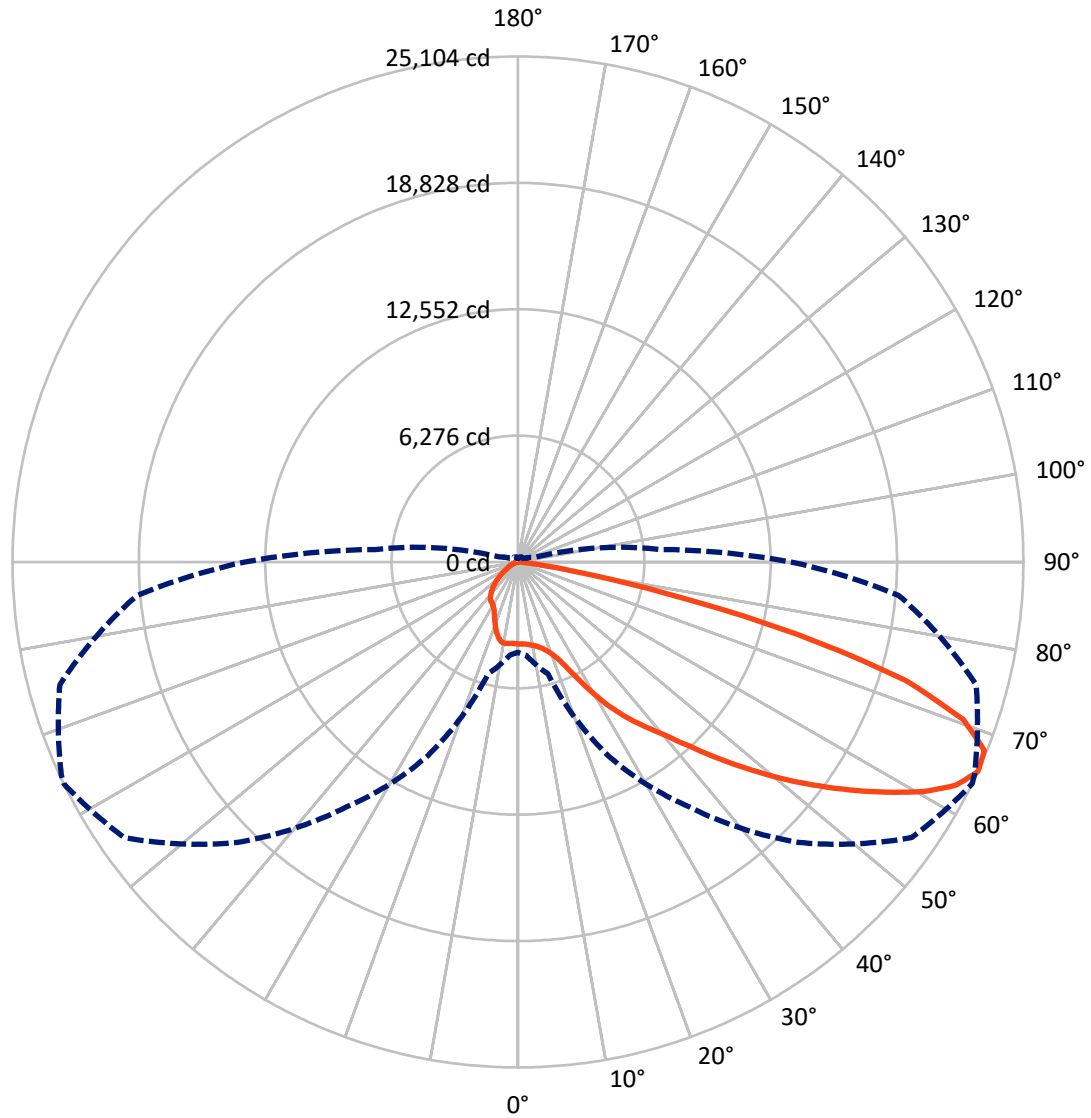
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4677.6	0.0	4677.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	30300.4	0.0	30300.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	34978.0	0.0	34978.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.3	1.1
10°-20°	1018.0	2.9
20°-30°	1929.1	5.5
30°-40°	3903.6	11.2
40°-50°	6649.8	19.0
50°-60°	9043.2	25.9
60°-70°	8492.0	24.3
70°-80°	3402.2	9.7
80°-90°	164.8	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°	34978.0	100.0
0°-180°	34978.0	100.0

Coefficient of Utilization



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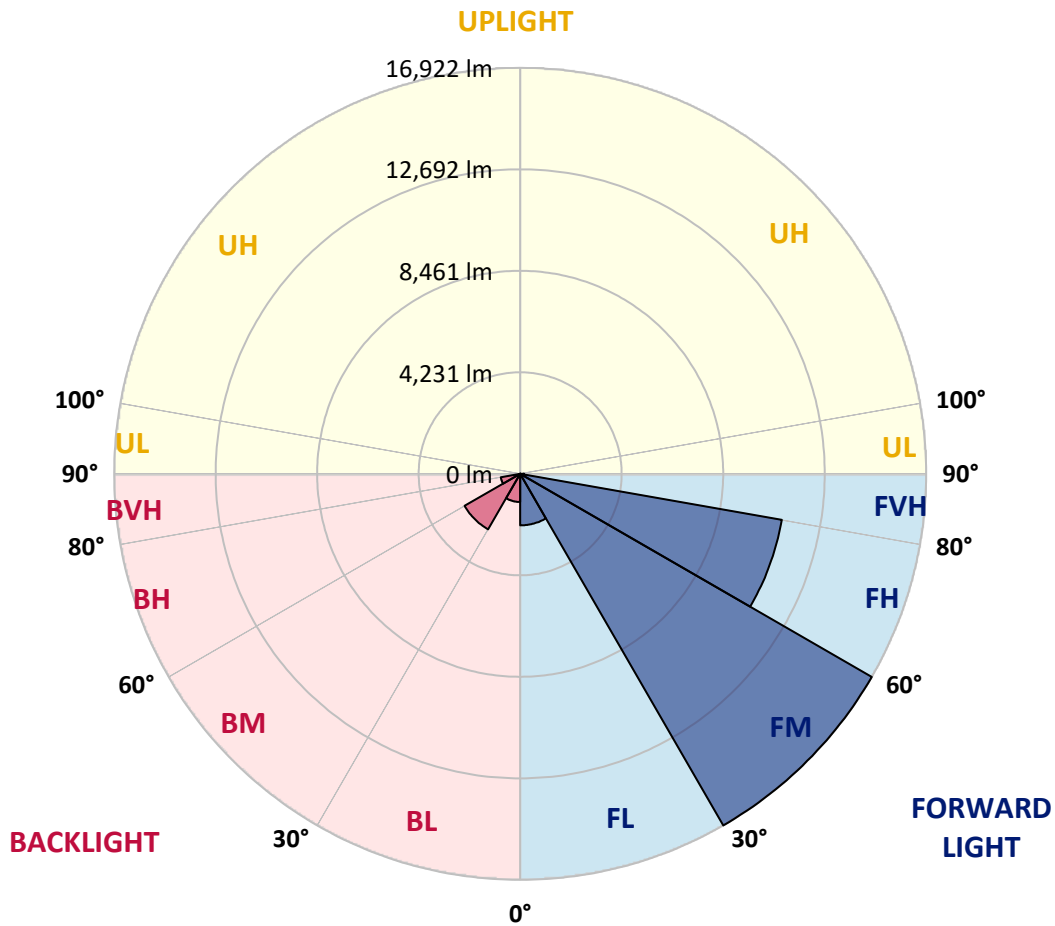
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2148.1	6.1			
FM (30°-60°)	16922.3	48.4			
FH (60°-80°)	11073.2	31.7			G4/12000
FVH (80°-90°)	156.8	0.4			G2/225
BL (0°-30°)	1174.4	3.4	B3/2500		
BM (30°-60°)	2674.2	7.6	B3/5000		
BH (60°-80°)	821.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	8.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	4068.3	4068.3	4068.3	4068.3	4068.3	4068.3	4068.3	4068.3	4068.3	4068.3
2.5°	4054.2	4082.4	4075.3	4068.3	4066.0	4070.6	4073.0	4070.6	4070.6	4070.6
5°	3976.9	4000.3	4000.3	4016.7	4040.2	4068.3	4089.4	4094.1	4098.8	4105.8
7.5°	3829.1	3847.9	3862.0	3915.9	3974.5	4049.5	4112.9	4145.7	4150.4	4176.2
10°	3728.3	3751.8	3775.2	3831.5	3915.9	4028.4	4136.3	4216.0	4227.8	4288.7
12.5°	3723.6	3747.1	3777.5	3838.5	3937.0	4056.6	4187.9	4302.8	4323.9	4413.0
15°	3772.9	3801.0	3829.1	3904.2	4009.7	4155.1	4295.8	4438.8	4459.9	4586.5
17.5°	3873.7	3911.2	3932.3	4007.3	4119.9	4281.7	4466.9	4631.1	4649.8	4797.6
20°	4073.0	4117.5	4124.6	4185.5	4295.8	4469.3	4689.7	4893.7	4917.1	5086.0
22.5°	4485.7	4549.0	4492.7	4523.2	4621.7	4795.2	5034.4	5292.3	5325.1	5517.4
25°	5212.6	5301.7	5156.3	5104.7	5146.9	5327.5	5627.6	5953.6	5991.1	6145.8
27.5°	6640.6	6525.7	6305.3	6089.6	5962.9	6066.1	6403.8	6807.1	6854.0	7004.0
30°	8209.3	8108.5	7810.7	7332.3	7032.2	7015.8	7327.6	7777.8	7831.8	7974.8
32.5°	9780.3	9684.2	9360.6	8772.1	8251.5	7993.6	8209.3	8708.8	8736.9	8828.3
35°	11325.6	11227.1	10903.5	10300.9	9660.8	9074.5	9032.3	9595.1	9604.5	9700.6
37.5°	12880.2	12798.2	12453.5	11862.6	11231.8	10422.8	10031.2	10434.6	10446.3	10540.1
40°	13989.3	14024.5	13787.7	13330.4	12788.8	11904.8	11152.1	11327.9	11257.6	11414.7
42.5°	14941.3	15011.7	14805.3	14575.6	14261.3	13482.9	12540.2	12509.7	12397.2	12481.6
45°	15764.4	15823.0	15637.8	15583.8	15576.8	15030.5	14057.3	13874.4	13717.3	13700.9
47.5°	16066.9	16179.4	16259.1	16439.7	16791.4	16561.6	15626.0	15342.3	15166.5	15037.5
50°	16181.8	16301.4	16573.4	17098.6	17931.0	18029.5	17187.7	16868.8	16653.1	16418.6
52.5°	16027.0	16240.4	16606.2	17490.2	18697.8	19206.6	18686.1	18407.0	18160.8	17778.6
55°	15114.9	15328.2	16076.3	17485.5	19080.0	20032.0	20102.3	19978.1	19701.4	19098.8
57.5°	13192.1	13508.6	14692.8	16889.9	19073.0	20742.5	21490.5	21579.6	21270.1	20407.2
60°	10528.4	10957.5	12401.9	15569.8	18484.4	21127.0	22707.5	23153.0	22824.7	21696.8
62.5°	7346.4	7843.5	9210.5	13501.6	17138.5	20850.4	23596.2	24419.2	24170.7	22850.5
65°	4481.0	4640.4	5742.5	10624.5	14849.9	19692.0	23870.5	25103.9	25021.8	23556.3
67.5°	2985.0	3118.6	3435.2	7285.4	11527.3	17377.6	23214.0	24984.3	25007.8	23441.4
70°	1798.5	1913.4	2119.7	4237.1	7470.7	13754.9	21181.0	23460.2	23596.2	21905.5
72.5°	741.0	818.4	1005.9	1920.4	3869.0	8729.9	16866.5	20142.2	20458.8	18418.8
75°	419.7	459.6	590.9	963.7	1678.9	4068.3	10216.5	14298.9	14765.5	12695.0
77.5°	279.0	297.8	382.2	623.7	945.0	1388.1	4366.1	7449.6	8340.6	6933.7
80°	187.6	204.0	262.6	417.4	614.3	595.6	1390.5	2759.9	3395.3	2382.4
82.5°	126.6	129.0	187.6	274.3	389.2	288.4	410.3	858.2	1078.6	689.4
85°	72.7	70.3	138.3	159.4	173.5	119.6	124.3	257.9	337.7	290.8
87.5°	9.4	14.1	53.9	42.2	23.4	25.8	25.8	44.6	65.7	70.3
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°
4068.3	0°	4068.3	4068.3	4068.3	4068.3	4068.3	4068.3	4068.3	4068.3	4068.3	4068.3
4073.0	2.5°	4073.0	4070.6	4063.6	4056.6	4040.2	4030.8	4035.5	4030.8	4028.4	4030.8
4103.5	5°	4103.5	4096.4	4077.7	4054.2	4021.4	3981.5	3955.8	3918.2	3883.1	3862.0
4185.5	7.5°	4185.5	4178.5	4152.7	4087.1	3981.5	3815.1	3662.6	3529.0	3428.2	3369.5
4316.9	10°	4316.9	4305.1	4265.3	4119.9	3843.2	3479.7	3177.3	2926.4	2762.2	2684.8
4471.6	12.5°	4471.6	4457.5	4387.2	4089.4	3580.6	3013.1	2595.7	2316.7	2164.3	2096.3
4649.8	15°	4654.5	4635.8	4497.4	3944.0	3198.4	2497.3	2115.0	1906.4	1807.9	1746.9
4877.3	17.5°	4882.0	4849.1	4579.5	3726.0	2783.3	2103.3	1819.6	1662.5	1575.7	1517.1
5175.1	20°	5177.4	5123.5	4645.1	3465.7	2401.1	1854.8	1620.3	1489.0	1423.3	1371.7
5597.1	22.5°	5590.1	5512.7	4724.9	3184.3	2131.5	1683.6	1472.6	1376.4	1322.5	1263.9
6185.7	25°	6101.3	6009.8	4823.3	2924.0	1946.2	1535.9	1364.7	1285.0	1221.7	1153.7
6957.2	27.5°	6816.5	6652.3	4940.6	2710.6	1786.8	1409.3	1266.2	1177.1	1104.4	1048.1
7831.8	30°	7613.7	7344.1	5043.8	2581.7	1641.4	1292.0	1137.2	1048.1	980.1	940.3
8617.3	32.5°	8368.7	8003.0	5111.8	2525.4	1510.1	1158.4	996.6	900.4	848.8	837.1
9386.4	35°	9081.6	8598.5	5104.7	2471.5	1392.8	1024.7	858.2	759.7	719.9	726.9
10214.1	37.5°	9902.3	9234.0	5055.5	2387.1	1296.7	902.8	738.6	651.9	616.7	619.0
11220.1	40°	10856.6	9967.9	5025.0	2227.6	1191.2	790.2	640.1	569.8	544.0	534.6
12279.9	42.5°	11874.3	10678.4	5029.7	2047.0	1059.9	689.4	572.1	513.5	490.1	483.0
13459.4	45°	12896.6	11356.1	5036.7	1859.5	921.5	612.0	522.9	473.7	459.6	450.2
14655.3	47.5°	13858.0	11932.9	4905.4	1657.8	785.5	553.4	483.0	450.2	438.5	426.8
15855.8	50°	14753.8	12317.5	4588.9	1423.3	677.7	506.5	452.6	429.1	417.4	405.7
16943.8	52.5°	15450.2	12378.4	4066.0	1181.8	602.6	471.3	433.8	412.7	398.6	386.9
17823.2	55°	15759.7	11996.2	3322.6	956.7	544.0	440.8	415.0	393.9	377.5	365.8
18514.9	57.5°	15680.0	11191.9	2591.1	769.1	487.7	410.3	391.6	377.5	358.8	340.0
19075.3	60°	15288.4	10115.7	1953.3	640.1	436.1	377.5	365.8	354.1	328.3	300.1
19291.0	62.5°	14610.7	8762.7	1392.8	529.9	379.9	340.0	335.3	325.9	288.4	236.8
18972.1	65°	13574.3	7118.9	937.9	440.8	325.9	297.8	300.1	283.7	234.5	175.9
17804.4	67.5°	12059.5	5205.6	600.3	361.1	272.0	248.6	250.9	241.5	199.3	150.1
15590.9	70°	10129.7	3446.9	391.6	274.3	218.1	192.3	206.3	208.7	168.8	121.9
11965.7	72.5°	7426.1	2035.3	274.3	204.0	159.4	133.7	168.8	173.5	136.0	91.4
7198.7	75°	4232.4	966.1	206.3	147.7	98.5	93.8	131.3	131.3	93.8	61.0
3116.3	77.5°	1777.4	403.3	145.4	96.1	56.3	53.9	89.1	82.1	46.9	28.1
759.7	80°	513.5	180.6	77.4	46.9	23.4	21.1	35.2	25.8	11.7	4.7
288.4	82.5°	201.7	79.7	30.5	18.8	9.4	9.4	4.7	0.0	0.0	0.0
164.1	85°	119.6	32.8	14.1	7.0	2.3	0.0	0.0	0.0	0.0	0.0
35.2	87.5°	30.5	7.0	4.7	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>
4068.3
4040.2
3866.6
3371.9
2677.8
2089.3
1749.3
1512.4
1362.4
1254.5
1146.6
1036.4
933.2
844.1
726.9
628.4
532.3
480.7
450.2
426.8
405.7
384.6
363.5
337.7
295.5
232.1
171.2
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117.2
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