

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: P956481

Luminaire Tested: **GALN-SB9A-840-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956481
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-SB9A-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 4000K, 350mA 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: 32537 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

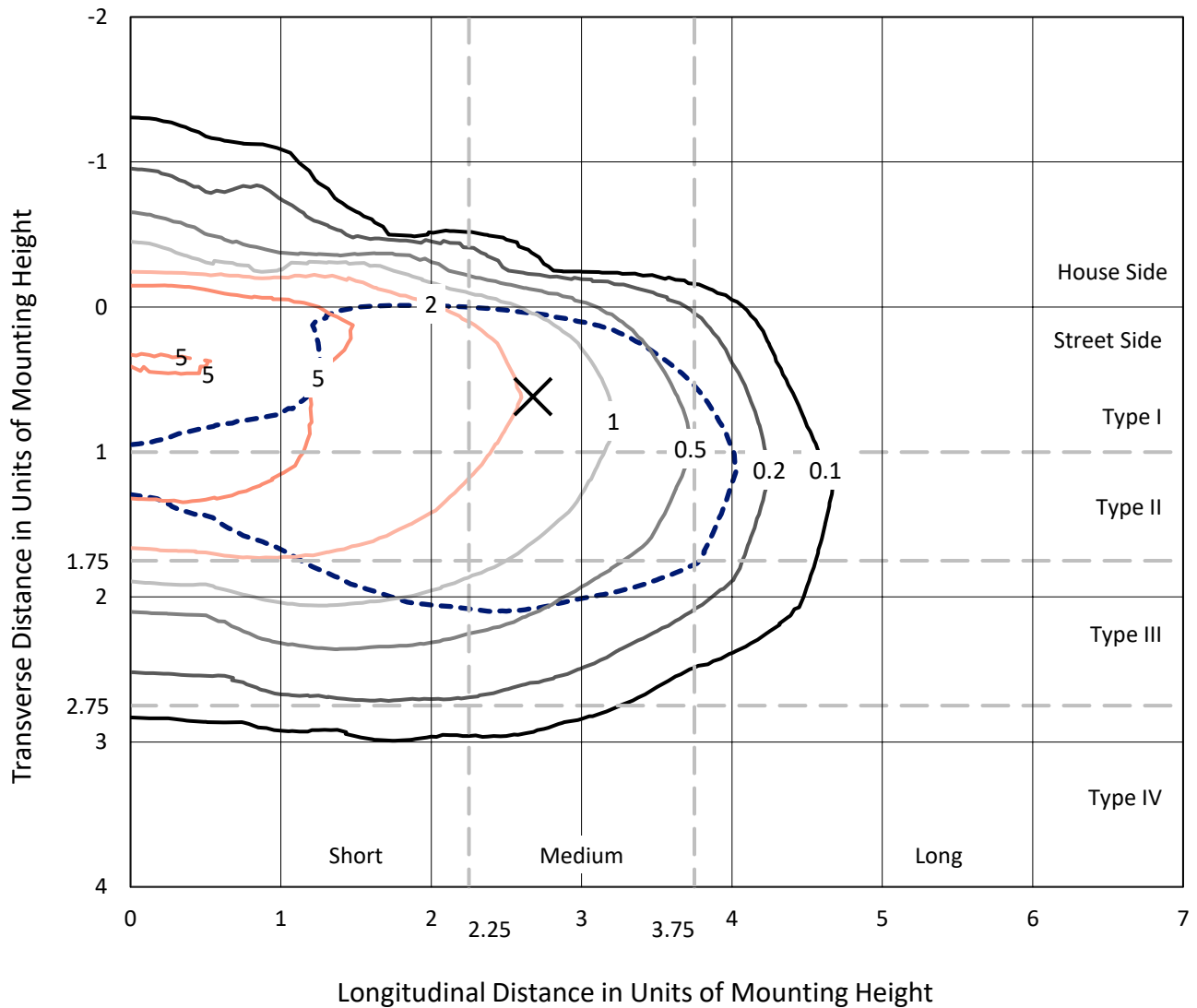
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

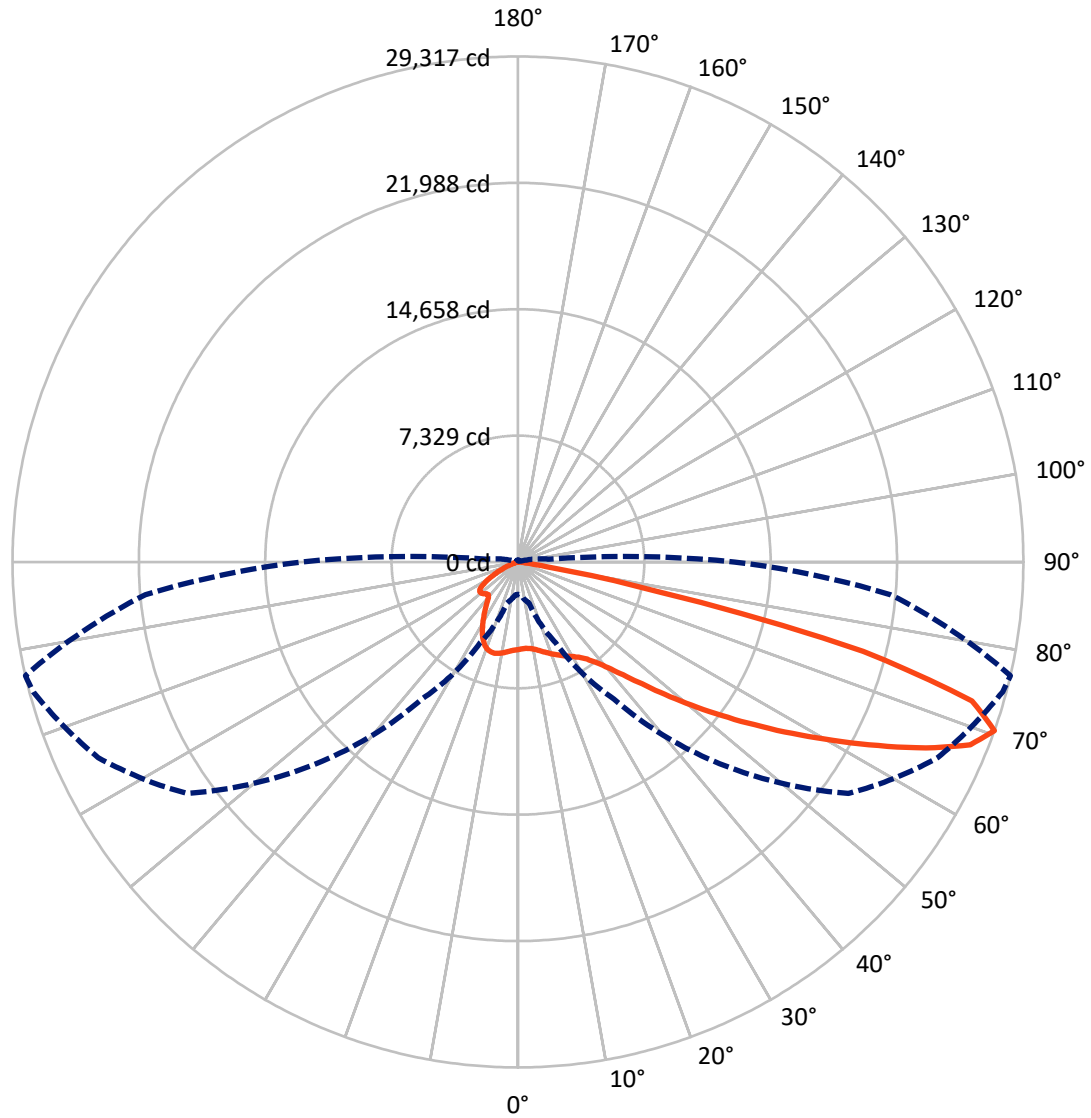
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	3429.9	0.0	3429.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	29107.1	0.0	29107.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	32537.0	0.0	32537.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.4	1.3
10°-20°	1038.3	3.2
20°-30°	1606.0	4.9
30°-40°	2914.2	9.0
40°-50°	5500.9	16.9
50°-60°	7948.4	24.4
60°-70°	8460.8	26.0
70°-80°	4483.7	13.8
80°-90°	147.2	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°	32537.0	100.0
0°-180°	32537.0	100.0

Coefficient of Utilization



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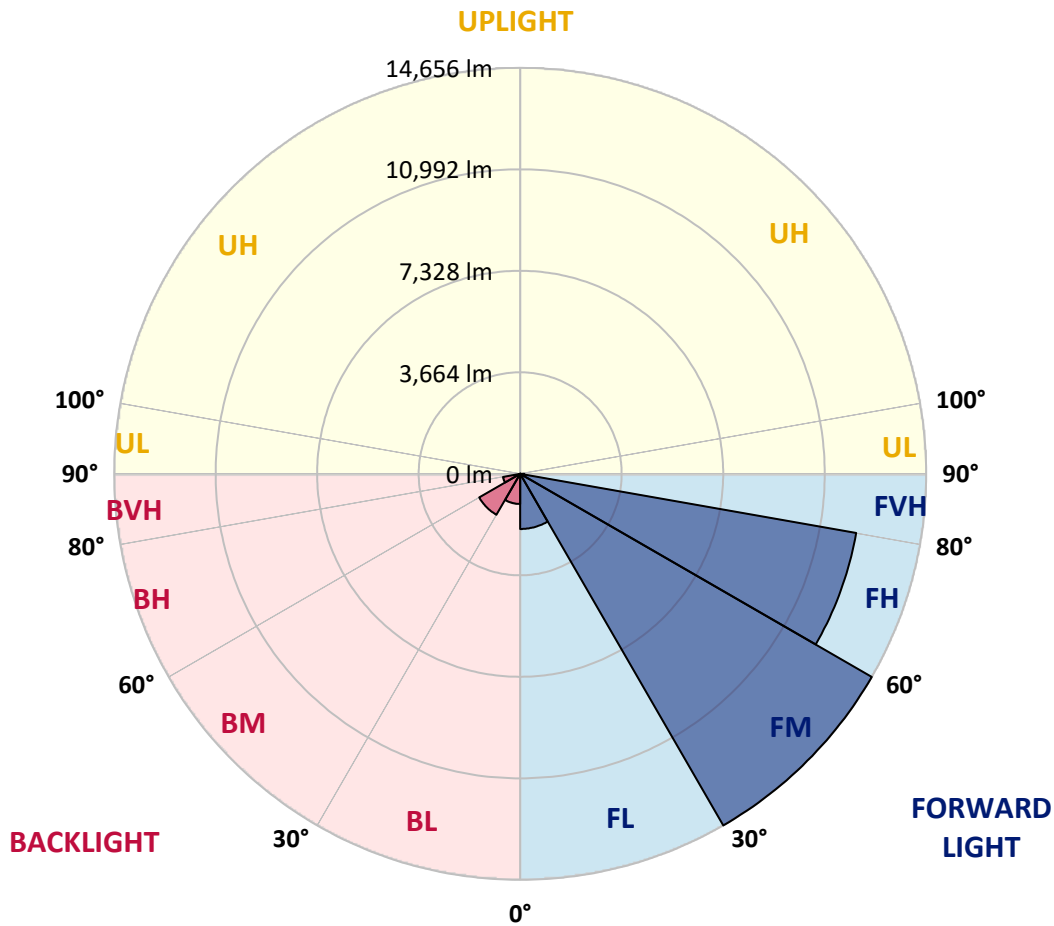
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1992.0	6.1			
FM (30°-60°)	14656.1	45.0			
FH (60°-80°)	12315.7	37.9			G5
FVH (80°-90°)	143.3	0.4			G2/225
BL (0°-30°)	1089.7	3.3	B3/2500		
BM (30°-60°)	1707.4	5.2	B2/2500		
BH (60°-80°)	628.8	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.0	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-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5075.2	5075.2	5075.2	5075.2	5075.2	5075.2	5075.2	5075.2	5075.2	5075.2
2.5°	4764.9	4808.1	4801.9	4830.7	4840.9	4882.0	4923.1	4978.6	5040.3	5038.2
5°	4495.8	4538.9	4549.2	4588.2	4637.5	4701.2	4785.5	4896.4	5011.5	5030.0
7.5°	4177.3	4222.5	4249.2	4327.3	4417.7	4549.2	4686.8	4849.2	5040.3	5067.0
10°	3858.8	3899.9	3934.8	4045.8	4189.6	4384.8	4608.8	4843.0	5099.8	5138.9
12.5°	3661.5	3700.6	3739.6	3836.2	4014.9	4253.3	4557.4	4871.8	5198.5	5253.9
15°	3591.7	3626.6	3657.4	3743.7	3910.2	4181.4	4547.1	4931.4	5323.8	5397.8
17.5°	3601.9	3620.4	3641.0	3706.7	3869.1	4148.5	4565.6	5034.1	5471.7	5537.5
20°	3661.5	3671.8	3673.9	3719.1	3862.9	4144.4	4602.6	5132.7	5611.5	5699.8
22.5°	3737.6	3741.7	3737.6	3768.4	3901.9	4175.2	4651.9	5251.9	5767.6	5849.8
25°	4093.0	4014.9	3916.3	3856.7	3967.7	4234.8	4725.9	5412.2	5938.2	6018.3
27.5°	5196.4	4972.4	4619.0	4222.5	4103.3	4321.1	4828.6	5574.5	6110.8	6182.7
30°	6988.1	6694.3	6094.3	5200.5	4538.9	4501.9	4962.2	5736.8	6293.6	6371.7
32.5°	8784.0	8712.1	8019.6	6782.7	5519.0	4904.6	5184.1	5956.7	6536.1	6597.7
35°	10600.4	10454.5	9887.4	8664.8	7029.2	5724.5	5553.9	6244.3	6854.6	6924.4
37.5°	11991.4	11903.1	11551.7	10544.9	8821.0	6990.2	6186.8	6690.2	7316.9	7395.0
40°	13220.1	13179.0	13059.9	12396.2	10824.3	8646.3	7171.0	7380.6	7958.0	8050.4
42.5°	14185.9	14282.4	14350.2	14165.3	12889.3	10536.7	8494.3	8350.4	8851.8	8946.3
45°	15174.2	15207.1	15480.3	15747.5	14939.9	12513.3	9986.0	9486.7	9963.4	10080.5
47.5°	15809.1	15940.6	16421.4	16891.9	16663.9	14473.5	11588.7	10828.4	11251.7	11471.6
50°	15856.4	16105.0	16766.6	17586.4	17919.3	16339.2	13331.1	12357.1	12807.1	13049.6
52.5°	15069.4	15455.7	16481.0	17681.0	18597.4	17919.3	15133.1	13885.9	14463.2	14779.7
55°	11553.7	12059.2	15406.4	17167.3	18624.1	19117.2	16887.8	15478.3	16308.4	16665.9
57.5°	10066.1	10320.9	12112.6	16275.5	18128.9	19600.1	18474.1	16994.7	18315.9	18759.7
60°	8375.1	8710.0	10158.6	14816.7	17457.0	19647.3	19875.4	18950.8	20491.8	20991.1
62.5°	5691.6	6055.3	7495.7	12309.9	16538.5	19624.7	21024.0	20964.4	22910.2	23446.5
65°	3525.9	3754.0	4703.3	10051.7	15254.3	19649.4	22226.0	23409.5	25462.2	26006.7
67.5°	2786.2	2891.0	3386.2	7717.6	13041.4	19094.6	23426.0	25708.8	27864.2	28295.7
70°	1871.9	1935.6	2463.6	5173.8	9702.4	16534.4	23403.4	26863.5	29101.1	29316.9
72.5°	986.3	1035.6	1440.4	2395.8	5860.1	11753.1	19727.5	25482.8	27870.4	27545.7
75°	493.1	575.3	969.8	1216.4	2502.7	6554.6	12250.3	20091.2	21936.3	20678.8
77.5°	374.0	452.0	801.3	801.3	871.2	2206.8	5188.2	10957.9	10107.2	8416.2
80°	238.3	308.2	700.7	606.1	363.7	560.9	1352.0	3069.8	2147.2	1633.5
82.5°	139.7	201.4	583.5	400.7	203.4	207.5	382.2	653.4	556.8	433.5
85°	55.5	131.5	400.7	158.2	80.1	51.4	115.1	139.7	115.1	86.3
87.5°	0.0	30.8	69.9	0.0	6.2	4.1	8.2	10.3	10.3	8.2
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°
5075.2	0°	5075.2	5075.2	5075.2	5075.2	5075.2	5075.2	5075.2	5075.2	5075.2	5075.2
5079.3	2.5°	5097.8	5101.9	5114.2	5116.3	5087.5	5050.5	5036.1	5030.0	5005.3	5003.3
5112.2	5°	5159.4	5177.9	5159.4	5106.0	4978.6	4799.9	4664.2	4553.3	4452.6	4421.8
5225.2	7.5°	5282.7	5301.2	5245.7	5036.1	4715.6	4360.1	4039.6	3813.6	3610.2	3534.1
5362.8	10°	5459.4	5484.1	5309.4	4886.1	4319.0	3747.8	3205.4	2823.2	2525.3	2404.0
5549.8	12.5°	5681.3	5691.6	5344.4	4658.1	3803.3	2987.6	2219.1	1810.2	1545.2	1446.5
5775.8	15°	5925.8	5911.5	5348.5	4347.8	3100.6	2112.3	1448.6	1189.7	1082.8	1050.0
6001.9	17.5°	6182.7	6123.1	5266.3	3899.9	2330.1	1444.5	1074.6	1013.0	994.5	986.3
6225.8	20°	6435.4	6301.9	5116.3	3314.3	1672.6	1078.7	976.0	957.5	947.2	943.1
6451.9	22.5°	6665.5	6437.5	4859.4	2634.2	1214.3	953.4	922.6	906.1	887.6	879.4
6671.7	25°	6889.5	6515.6	4497.8	1999.3	971.9	891.8	867.1	836.3	811.6	801.3
6908.0	27.5°	7107.3	6564.9	4045.8	1479.4	867.1	834.2	789.0	745.9	727.4	723.3
7160.7	30°	7339.5	6581.3	3532.1	1103.4	803.4	762.3	696.6	647.2	637.0	639.0
7501.8	32.5°	7623.1	6606.0	3014.3	904.1	750.0	676.0	597.9	546.6	538.3	546.6
7999.1	35°	7962.1	6655.3	2515.0	832.2	702.7	587.7	503.4	460.3	452.0	458.2
8636.0	37.5°	8422.3	6735.4	2048.6	817.8	663.7	513.7	423.3	388.3	388.3	390.4
9416.8	40°	9034.7	6949.1	1631.5	807.5	643.1	458.2	357.5	343.1	349.3	353.4
10411.3	42.5°	9780.5	7403.2	1350.0	795.2	620.5	433.5	324.6	318.5	328.8	332.9
11603.1	45°	10616.8	7978.5	1251.3	774.6	600.0	450.0	310.3	302.0	314.4	316.4
12938.6	47.5°	11481.8	8541.5	1239.0	752.0	579.4	474.6	306.2	287.7	302.0	304.1
14364.6	50°	12357.1	8909.3	1251.3	717.1	546.6	474.6	308.2	273.3	285.6	291.8
15844.0	52.5°	13238.6	9077.8	1243.1	641.1	489.0	445.9	308.2	261.0	273.3	277.4
17442.6	55°	14093.4	9044.9	1117.8	528.1	415.1	394.5	300.0	250.7	258.9	261.0
18952.8	57.5°	14769.4	8586.7	885.6	410.9	337.0	328.8	273.3	238.3	244.5	242.5
20337.7	60°	15122.8	7579.9	632.9	316.4	265.1	258.9	240.4	221.9	226.0	215.7
21511.0	62.5°	15126.9	6248.4	423.3	250.7	211.6	205.5	205.5	199.3	195.2	174.7
22419.2	65°	14804.3	4771.1	281.5	199.3	170.5	160.3	172.6	170.5	156.2	127.4
22696.6	67.5°	14072.8	3127.3	213.7	156.2	131.5	125.3	137.7	143.8	133.6	106.8
21685.6	70°	12568.8	1820.5	176.7	121.2	98.6	92.5	111.0	123.3	111.0	86.3
18535.7	72.5°	10440.1	982.2	143.8	90.4	67.8	61.6	88.4	100.7	88.4	63.7
11892.8	75°	6774.4	526.0	111.0	59.6	34.9	39.0	65.8	74.0	61.6	41.1
3491.0	77.5°	2274.6	232.2	69.9	28.8	16.4	16.4	39.0	45.2	28.8	14.4
634.9	80°	507.5	96.6	28.8	12.3	6.2	6.2	8.2	8.2	4.1	0.0
195.2	82.5°	166.4	39.0	12.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0
49.3	85°	63.7	14.4	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.4	87.5°	24.7	2.1	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°
5075.2
5007.4
4403.3
3503.3
2352.7
1415.7
1050.0
984.2
939.0
877.4
797.2
719.2
639.0
544.5
456.2
388.3
353.4
332.9
318.5
306.2
293.8
277.4
261.0
242.5
213.7
168.5
123.3
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