

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: P956859

Luminaire Tested: **GALN-SB9B-850-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956859  
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-SB9B-850-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

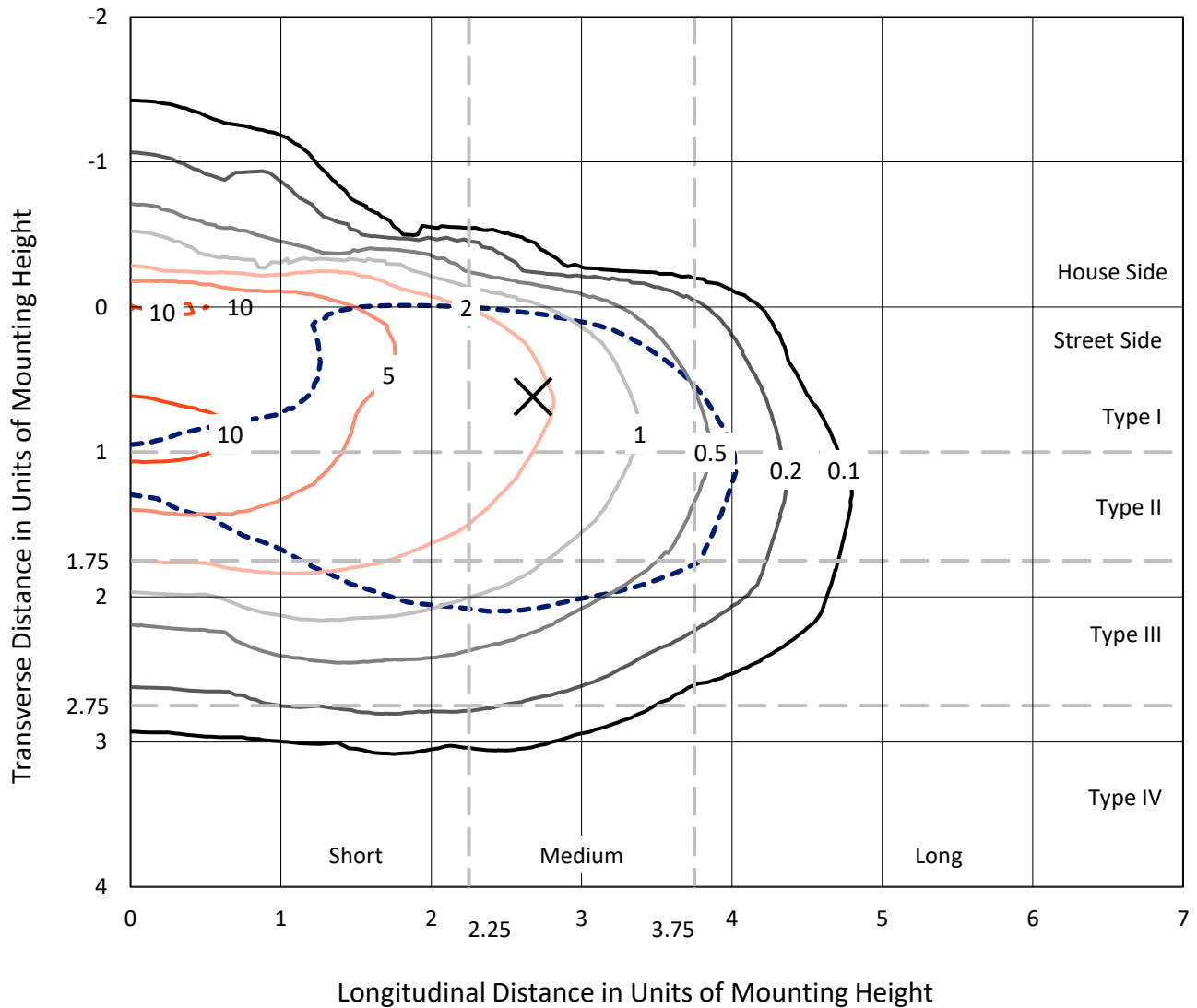
Lumens per Lamp: N/A  
Luminaire Lumens: 40844 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

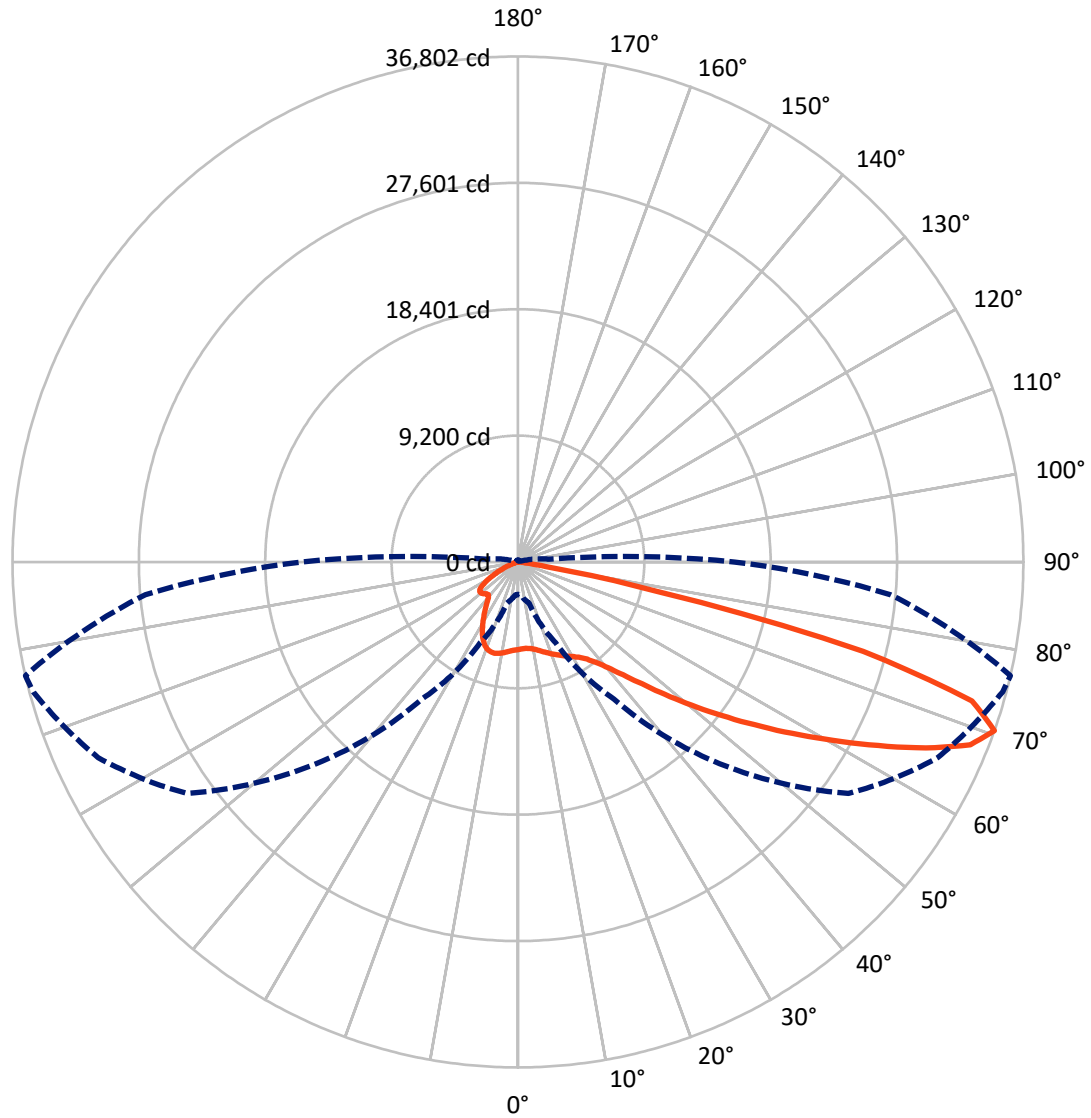
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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
<b>House Side</b>	Lumens	4305.5	0.0	4305.5
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	36538.5	0.0	36538.5
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	40844.0	0.0	40844.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.1	1.3
10°-20°	1303.4	3.2
20°-30°	2016.1	4.9
30°-40°	3658.2	9.0
40°-50°	6905.4	16.9
50°-60°	9977.7	24.4
60°-70°	10621.0	26.0
70°-80°	5628.4	13.8
80°-90°	184.8	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°	40844.0	100.0
0°-180°	40844.0	100.0

**Coefficient of Utilization**



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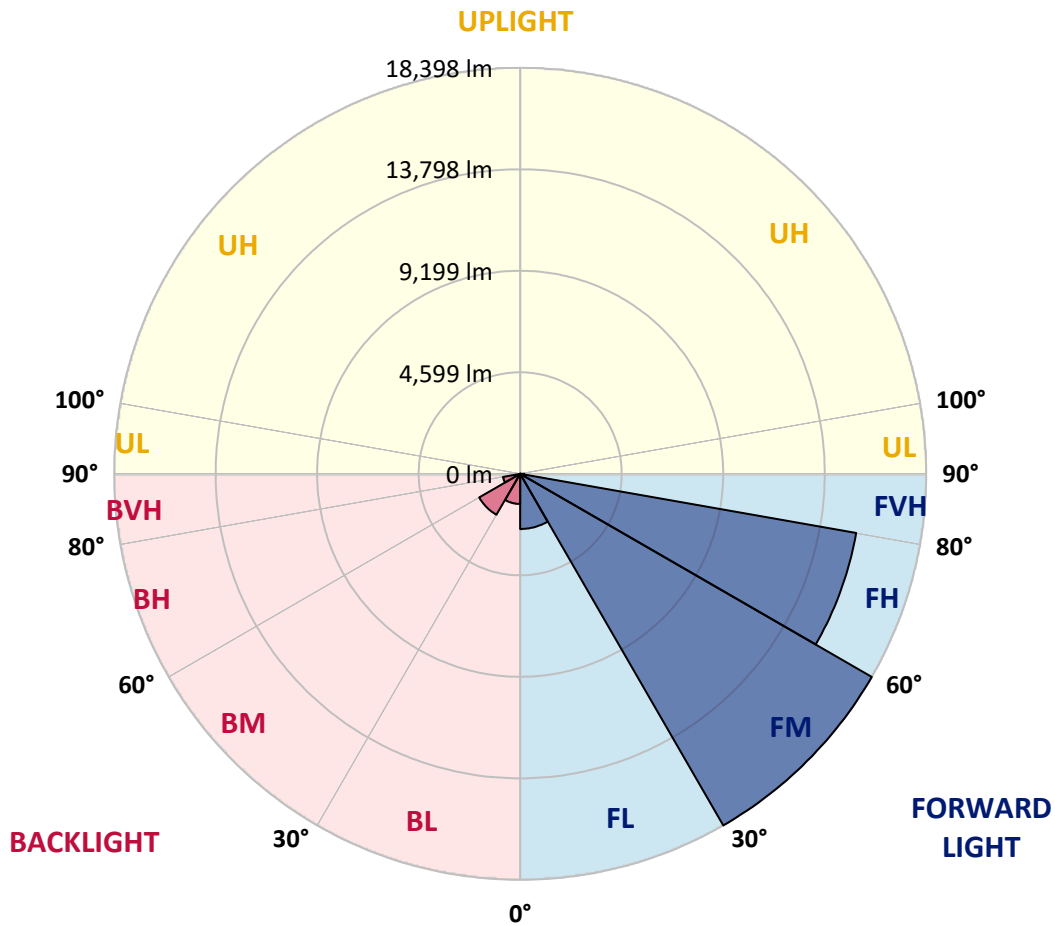
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2500.6	6.1			
FM (30°-60°)	18398.0	45.0			
FH (60°-80°)	15460.0	37.9			G5
FVH (80°-90°)	179.8	0.4			G2/225
BL (0°-30°)	1367.9	3.3	B3/2500		
BM (30°-60°)	2143.3	5.2	B2/2500		
BH (60°-80°)	789.3	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.0	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°	6370.9	6370.9	6370.9	6370.9	6370.9	6370.9	6370.9	6370.9	6370.9	6370.9
2.5°	5981.4	6035.6	6027.9	6064.0	6076.9	6128.5	6180.1	6249.7	6327.1	6324.5
5°	5643.6	5697.7	5710.6	5759.6	5821.5	5901.5	6007.2	6146.5	6291.0	6314.2
7.5°	5243.8	5300.5	5334.0	5432.1	5545.5	5710.6	5883.4	6087.2	6327.1	6360.6
10°	4844.0	4895.6	4939.4	5078.7	5259.2	5504.3	5785.4	6079.5	6401.9	6450.9
12.5°	4596.4	4645.4	4694.4	4815.6	5040.0	5339.2	5720.9	6115.6	6525.7	6595.3
15°	4508.7	4552.5	4591.2	4699.5	4908.5	5248.9	5708.0	6190.4	6683.0	6775.9
17.5°	4521.6	4544.8	4570.6	4653.1	4856.9	5207.7	5731.3	6319.3	6868.7	6951.3
20°	4596.4	4609.2	4611.8	4668.6	4849.1	5202.5	5777.7	6443.1	7044.1	7155.0
22.5°	4691.8	4696.9	4691.8	4730.5	4898.1	5241.2	5839.6	6592.7	7240.2	7343.3
25°	5138.0	5040.0	4916.2	4841.4	4980.7	5316.0	5932.4	6793.9	7454.2	7554.8
27.5°	6523.1	6242.0	5798.3	5300.5	5150.9	5424.3	6061.4	6997.7	7670.9	7761.2
30°	8772.3	8403.4	7650.3	6528.3	5697.7	5651.3	6229.1	7201.5	7900.5	7998.5
32.5°	11026.6	10936.3	10067.1	8514.3	6928.1	6156.8	6507.6	7477.5	8204.8	8282.2
35°	13306.7	13123.6	12411.7	10877.0	8823.9	7186.0	6971.9	7838.6	8604.6	8692.3
37.5°	15052.9	14942.0	14501.0	13237.1	11073.0	8774.9	7766.3	8398.3	9185.0	9283.0
40°	16595.4	16543.8	16394.2	15561.1	13587.9	10853.8	9001.8	9264.9	9989.7	10105.8
42.5°	17807.6	17928.9	18014.0	17781.8	16180.1	13226.8	10662.9	10482.4	11111.7	11230.4
45°	19048.3	19089.6	19432.6	19767.9	18754.3	15708.1	12535.5	11908.7	12507.1	12654.2
47.5°	19845.3	20010.4	20613.9	21204.6	20918.3	18168.7	14547.4	13593.0	14124.4	14400.4
50°	19904.6	20216.7	21047.3	22076.4	22494.3	20510.8	16734.6	15512.0	16076.9	16381.3
52.5°	18916.8	19401.7	20688.7	22195.1	23345.4	22494.3	18996.7	17431.1	18155.9	18553.1
55°	14503.5	15138.0	19339.8	21550.2	23379.0	23998.0	21199.5	19430.0	20472.1	20920.9
57.5°	12636.1	12955.9	15205.1	20430.8	22757.4	24604.2	23190.7	21333.6	22992.1	23549.2
60°	10513.3	10933.7	12752.2	18599.5	21913.9	24663.5	24949.8	23789.1	25723.6	26350.4
62.5°	7144.7	7601.3	9409.4	15452.7	20761.0	24635.1	26391.6	26316.8	28759.4	29432.6
65°	4426.1	4712.4	5904.1	12618.0	19148.9	24666.1	27900.5	29386.2	31963.0	32646.5
67.5°	3497.6	3629.1	4250.7	9687.9	16371.0	23969.6	29406.9	32272.5	34978.2	35519.8
70°	2349.8	2429.7	3092.6	6494.7	12179.6	20755.8	29378.5	33722.1	36530.9	36801.8
72.5°	1238.1	1300.0	1808.1	3007.5	7356.2	14753.7	24764.1	31988.8	34985.9	34578.4
75°	619.0	722.2	1217.4	1527.0	3141.6	8228.0	15377.9	25220.6	27536.8	25958.3
77.5°	469.4	567.5	1005.9	1005.9	1093.6	2770.2	6512.8	13755.5	12687.7	10564.9
80°	299.2	386.9	879.5	760.9	456.5	704.2	1697.2	3853.5	2695.4	2050.6
82.5°	175.4	252.8	732.5	503.0	255.4	260.5	479.8	820.2	699.0	544.2
85°	69.6	165.1	503.0	198.6	100.6	64.5	144.4	175.4	144.4	108.3
87.5°	0.0	38.7	87.7	0.0	7.7	5.2	10.3	12.9	12.9	10.3
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°
6370.9	0°	6370.9	6370.9	6370.9	6370.9	6370.9	6370.9	6370.9	6370.9	6370.9	6370.9
6376.1	2.5°	6399.3	6404.5	6419.9	6422.5	6386.4	6340.0	6321.9	6314.2	6283.2	6280.7
6417.4	5°	6476.7	6499.9	6476.7	6409.6	6249.7	6025.3	5855.1	5715.8	5589.4	5550.7
6559.2	7.5°	6631.4	6654.7	6585.0	6321.9	5919.5	5473.3	5070.9	4787.2	4531.9	4436.4
6732.0	10°	6853.3	6884.2	6665.0	6133.6	5421.7	4704.7	4023.7	3544.0	3170.0	3017.8
6966.7	12.5°	7131.8	7144.7	6708.8	5847.3	4774.3	3750.3	2785.7	2272.4	1939.7	1815.8
7250.5	15°	7438.8	7420.7	6714.0	5457.8	3892.2	2651.5	1818.4	1493.4	1359.3	1318.0
7534.2	17.5°	7761.2	7686.4	6610.8	4895.6	2925.0	1813.3	1349.0	1271.6	1248.4	1238.1
7815.3	20°	8078.4	7910.8	6422.5	4160.4	2099.6	1354.1	1225.2	1202.0	1189.1	1183.9
8099.1	22.5°	8367.3	8081.0	6100.1	3306.7	1524.4	1196.8	1158.1	1137.5	1114.3	1103.9
8375.1	25°	8648.5	8179.0	5646.1	2509.7	1220.0	1119.4	1088.5	1049.8	1018.8	1005.9
8671.7	27.5°	8921.9	8240.9	5078.7	1857.1	1088.5	1047.2	990.5	936.3	913.1	907.9
8988.9	30°	9213.3	8261.6	4433.9	1385.1	1008.5	956.9	874.4	812.5	799.6	802.2
9417.1	32.5°	9569.3	8292.5	3783.9	1134.9	941.5	848.6	750.6	686.1	675.8	686.1
10041.3	35°	9994.9	8354.4	3157.1	1044.6	882.1	737.7	631.9	577.8	567.5	575.2
10840.9	37.5°	10572.6	8455.0	2571.6	1026.6	833.1	644.8	531.3	487.5	487.5	490.1
11821.0	40°	11341.3	8723.3	2048.0	1013.7	807.3	575.2	448.8	430.7	438.5	443.6
13069.4	42.5°	12277.6	9293.3	1694.6	998.2	779.0	544.2	407.5	399.8	412.7	417.9
14565.4	45°	13327.4	10015.5	1570.8	972.4	753.2	564.9	389.5	379.2	394.6	397.2
16242.0	47.5°	14413.3	10722.2	1555.3	944.0	727.4	595.8	384.3	361.1	379.2	381.7
18032.0	50°	15512.0	11183.9	1570.8	900.2	686.1	595.8	386.9	343.0	358.5	366.3
19889.2	52.5°	16618.6	11395.4	1560.5	804.7	613.9	559.7	386.9	327.6	343.0	348.2
21895.9	55°	17691.6	11354.2	1403.2	662.9	521.0	495.2	376.6	314.7	325.0	327.6
23791.7	57.5°	18540.2	10779.0	1111.7	515.9	423.0	412.7	343.0	299.2	306.9	304.4
25530.1	60°	18983.8	9515.1	794.4	397.2	332.7	325.0	301.8	278.6	283.7	270.8
27002.9	62.5°	18989.0	7843.7	531.3	314.7	265.7	257.9	257.9	250.2	245.0	219.2
28143.0	65°	18584.0	5989.2	353.4	250.2	214.1	201.2	216.7	214.1	196.0	159.9
28491.2	67.5°	17665.8	3925.7	268.2	196.0	165.1	157.3	172.8	180.6	167.7	134.1
27222.2	70°	15777.7	2285.3	221.8	152.2	123.8	116.1	139.3	154.8	139.3	108.3
23268.1	72.5°	13105.5	1232.9	180.6	113.5	85.1	77.4	110.9	126.4	110.9	80.0
14929.1	75°	8504.0	660.3	139.3	74.8	43.8	49.0	82.5	92.9	77.4	51.6
4382.3	77.5°	2855.3	291.5	87.7	36.1	20.6	20.6	49.0	56.7	36.1	18.1
797.0	80°	637.1	121.2	36.1	15.5	7.7	7.7	10.3	10.3	5.2	0.0
245.0	82.5°	208.9	49.0	15.5	5.2	0.0	0.0	0.0	0.0	0.0	0.0
61.9	85°	80.0	18.1	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.6	87.5°	31.0	2.6	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°
6370.9
6285.8
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