

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: P953747

Luminaire Tested: **GALN-SB7A-950-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953747  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7A-950-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

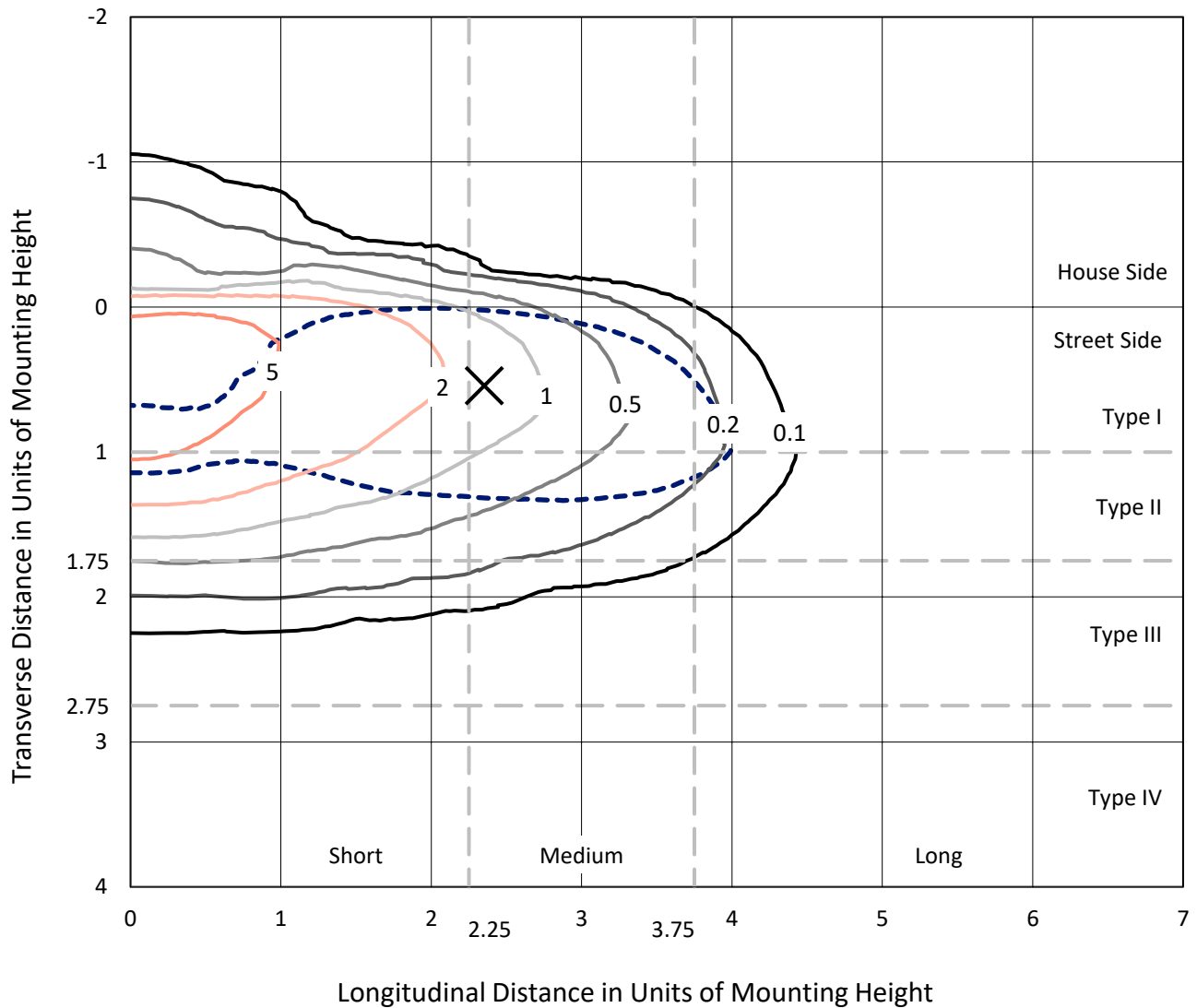
Lumens per Lamp: N/A  
Luminaire Lumens: 18790 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

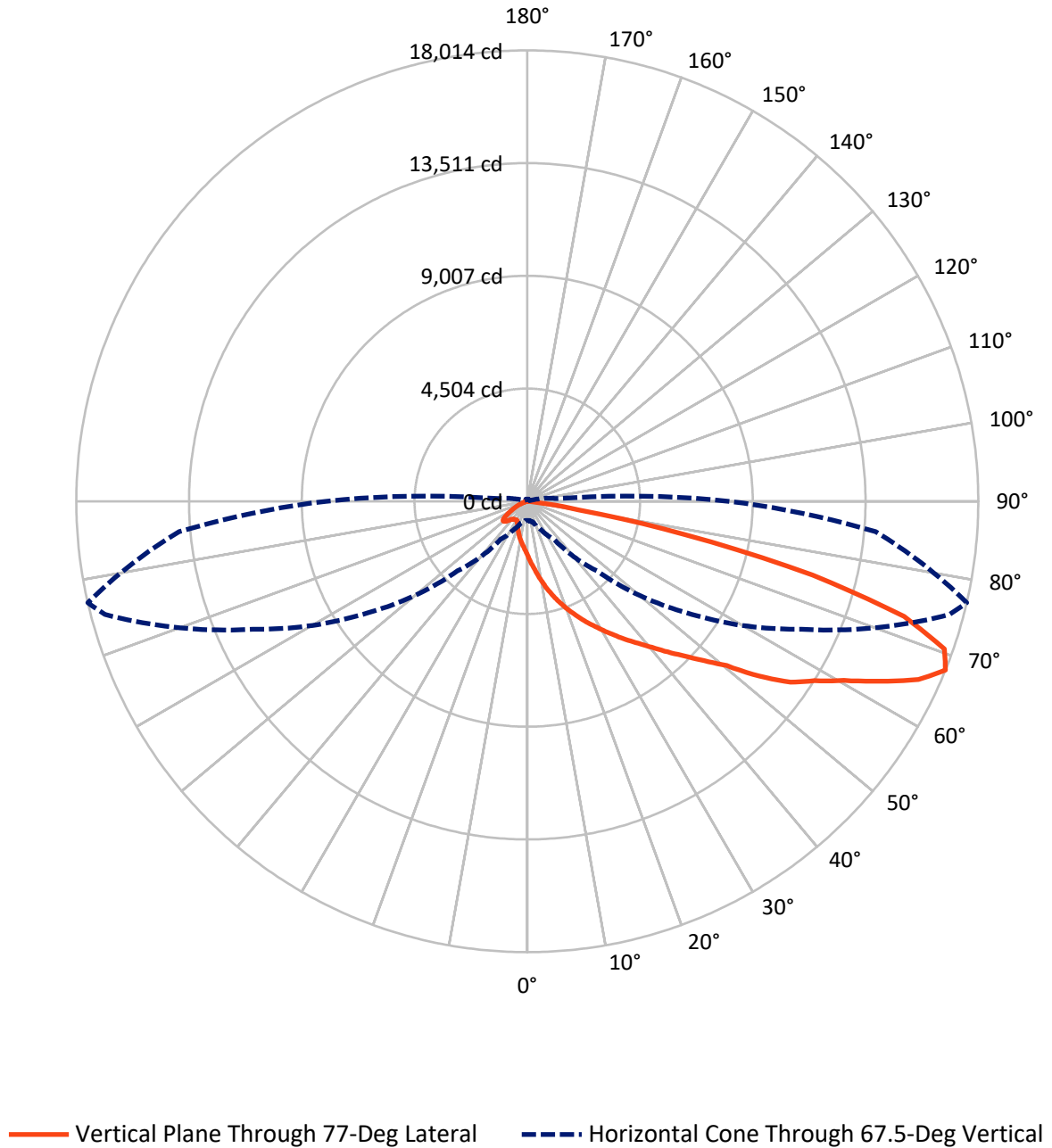
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1382.4	0.0	1382.4
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	17407.6	0.0	17407.6
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	18790.0	0.0	18790.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.2	1.2
10°-20°	774.5	4.1
20°-30°	1494.5	8.0
30°-40°	2594.5	13.8
40°-50°	3767.1	20.0
50°-60°	4326.0	23.0
60°-70°	3755.8	20.0
70°-80°	1769.0	9.4
80°-90°	87.5	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°	18790.0	100.0
0°-180°	18790.0	100.0

**Coefficient of Utilization**



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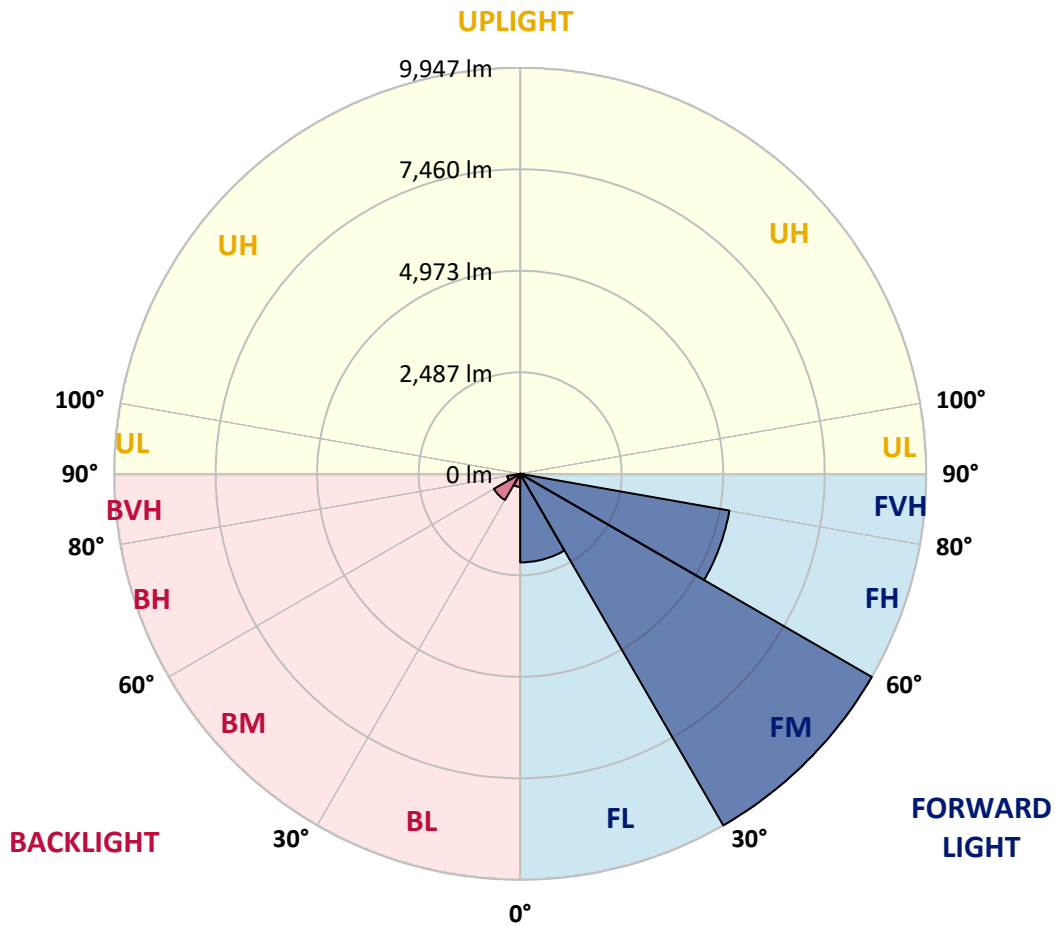
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2170.0	11.5			
FM (30°-60°)	9946.9	52.9			
FH (60°-80°)	5204.8	27.7			G3/7500
FVH (80°-90°)	85.9	0.5			G1/100
BL (0°-30°)	320.0	1.7	B1/500		
BM (30°-60°)	740.7	3.9	B1/1000		
BH (60°-80°)	320.0	1.7	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	
0°	2166.8	2166.8	2166.8	2166.8	2166.8	2166.8	2166.8	2166.8	2166.8	2166.8	2166.8
2.5°	2999.9	3018.5	2991.7	2940.4	2863.3	2813.2	2690.7	2575.1	2446.8	2406.8	2406.0
5°	3656.8	3673.1	3642.8	3586.8	3484.1	3386.1	3225.1	2983.5	2732.7	2652.2	2652.2
7.5°	4143.3	4152.7	4141.0	4089.7	3991.7	3880.8	3701.1	3415.2	3043.0	2954.4	2954.4
10°	4493.4	4523.7	4520.2	4500.4	4435.0	4345.2	4153.8	3828.3	3390.7	3276.4	3276.4
12.5°	4725.6	4759.4	4779.2	4823.6	4820.1	4762.9	4594.9	4250.7	3737.3	3603.1	3603.1
15°	4793.2	4829.4	4905.3	5007.9	5099.0	5128.1	5010.3	4664.9	4118.8	3947.3	3947.3
17.5°	4754.7	4810.8	4901.8	5063.9	5263.5	5395.3	5382.5	5065.1	4465.4	4269.4	4269.4
20°	4839.9	4893.6	4964.8	5101.3	5333.5	5572.7	5668.4	5447.8	4809.6	4604.2	4604.2
22.5°	5311.3	5302.0	5309.0	5331.1	5470.0	5706.9	5904.1	5795.5	5150.3	4940.3	4940.3
25°	6058.1	6016.1	5944.9	5824.7	5789.7	5904.1	6109.4	6103.6	5509.7	5284.5	5284.5
27.5°	6914.5	6907.5	6740.7	6451.3	6287.9	6243.6	6341.6	6403.4	5865.5	5625.2	5625.2
30°	7734.8	7753.4	7528.2	7206.2	6906.3	6732.5	6643.8	6688.1	6227.3	5992.7	5992.7
32.5°	8448.9	8468.7	8223.7	7846.8	7475.7	7265.7	7079.0	6969.3	6621.6	6366.1	6366.1
35°	9052.1	9071.9	8790.7	8374.2	7978.6	7788.4	7577.3	7277.4	7018.4	6780.3	6780.3
37.5°	9591.2	9585.3	9208.5	8788.4	8399.9	8249.3	8138.5	7656.6	7426.7	7196.9	7196.9
40°	9909.7	9934.2	9612.2	9148.9	8772.1	8662.4	8655.4	8126.8	7898.1	7675.3	7675.3
42.5°	10003.0	10046.2	9812.9	9432.5	9090.6	8971.6	9154.8	8635.5	8446.5	8229.5	8229.5
45°	9835.0	9877.0	9770.9	9507.2	9307.6	9230.6	9584.2	9162.9	9032.3	8817.6	8817.6
47.5°	9345.0	9397.5	9423.1	9367.1	9364.8	9443.0	9969.2	9718.3	9727.7	9508.3	9508.3
50°	8396.4	8485.0	8720.7	8919.1	9226.0	9611.0	10343.8	10320.4	10511.8	10322.8	10322.8
52.5°	6671.8	6797.8	7609.9	8152.5	8842.1	9579.5	10755.6	11286.5	11887.4	11610.9	11610.9
55°	5361.5	5361.5	6021.9	7037.0	8093.0	9371.8	10935.3	11914.3	12824.4	12759.0	12759.0
57.5°	4370.9	4423.4	4844.6	5741.9	7009.0	8877.1	11046.2	12308.7	13579.3	13531.5	13531.5
60°	2697.7	2810.8	3606.6	4492.2	5775.7	7996.1	10976.2	12707.7	14495.3	14533.8	14533.8
62.5°	1519.2	1561.2	1915.9	3232.1	4491.0	6811.8	10440.6	12930.6	15666.7	15830.1	15830.1
65°	1049.0	1070.0	1206.5	2011.6	3113.0	5423.3	9394.0	12791.7	16840.5	17170.8	17170.8
67.5°	761.9	772.4	857.6	1228.6	1847.1	3932.1	7753.4	12091.6	17462.5	18014.4	18014.4
70°	585.7	592.7	654.6	807.4	1091.0	2427.0	5631.0	10699.6	17012.1	17671.3	17671.3
72.5°	476.1	483.1	530.9	597.4	723.4	1435.2	3412.9	8689.2	15023.8	15735.6	15735.6
75°	401.4	410.7	453.9	497.1	567.1	921.8	1600.9	6051.1	11298.2	11764.9	11764.9
77.5°	222.9	205.4	368.7	411.9	478.4	583.4	749.1	3561.1	6327.6	6457.1	6457.1
80°	138.9	143.5	292.9	331.4	367.5	294.0	343.0	1371.0	2193.6	2083.9	2083.9
82.5°	8.2	18.7	225.2	239.2	252.0	126.0	129.5	465.6	528.6	485.4	485.4
85°	0.0	0.0	102.7	82.8	87.5	36.2	37.3	108.5	71.2	77.0	77.0
87.5°	0.0	0.0	0.0	2.3	0.0	3.5	7.0	9.3	3.5	4.7	4.7
90°	0.0	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°
2166.8	0°	2166.8	2166.8	2166.8	2166.8	2166.8	2166.8	2166.8	2166.8	2166.8	2166.8
2277.6	2.5°	2195.9	2114.3	1948.6	1786.4	1654.5	1532.0	1444.5	1361.7	1319.7	1317.3
2424.6	5°	2262.4	2090.9	1759.5	1466.7	1231.0	1042.0	919.4	831.9	787.6	772.4
2605.5	7.5°	2355.8	2097.9	1593.9	1186.6	908.9	746.8	676.7	648.7	639.4	628.9
2809.7	10°	2473.6	2114.3	1445.7	955.6	716.4	634.7	606.7	595.1	588.1	581.1
3039.5	12.5°	2605.5	2129.4	1298.7	793.4	630.1	588.1	568.2	554.2	544.9	536.7
3275.2	15°	2733.8	2138.8	1145.8	680.2	585.7	551.9	530.9	515.7	502.9	493.6
3506.3	17.5°	2861.0	2151.6	1002.3	612.6	549.6	515.7	494.7	476.1	465.6	455.1
3749.0	20°	3002.2	2149.3	866.9	564.7	513.4	479.6	457.4	439.9	429.4	417.7
4005.7	22.5°	3132.9	2137.6	747.9	523.9	476.1	443.4	418.9	401.4	390.9	381.5
4268.2	25°	3283.4	2128.3	648.7	486.6	441.1	408.4	381.5	365.2	353.5	345.4
4531.9	27.5°	3428.1	2114.3	576.4	452.7	407.2	375.7	350.0	331.4	320.9	315.0
4803.8	30°	3570.4	2110.8	549.6	420.1	376.9	345.4	319.7	302.2	294.0	291.7
5102.5	32.5°	3742.0	2120.1	561.2	408.4	348.9	317.4	292.9	280.0	271.9	271.9
5435.0	35°	3925.1	2117.8	578.7	418.9	330.2	289.4	270.7	262.5	254.4	254.4
5803.7	37.5°	4155.0	2121.3	592.7	436.4	323.2	266.0	255.5	245.0	240.4	240.4
6207.4	40°	4498.0	2236.8	585.7	451.6	320.9	249.7	228.7	225.2	221.7	221.7
6663.6	42.5°	4918.1	2487.6	595.1	452.7	319.7	238.0	210.0	217.0	208.9	207.7
7178.2	45°	5377.8	2761.8	654.6	428.2	318.5	232.2	200.7	208.9	196.0	196.0
7774.4	47.5°	5834.0	3033.7	715.3	393.2	315.0	231.0	192.5	187.9	184.4	185.5
8551.5	50°	6463.0	3255.4	738.6	345.4	306.9	228.7	177.4	178.5	176.2	178.5
9647.2	52.5°	7147.9	3302.1	710.6	291.7	283.5	221.7	166.9	171.5	170.4	172.7
10418.4	55°	7574.9	3251.9	586.9	242.7	247.4	193.7	156.4	165.7	165.7	165.7
11172.2	57.5°	8016.0	3038.4	416.6	197.2	205.4	158.7	147.0	159.9	158.7	157.5
12080.0	60°	8333.3	2693.0	274.2	162.2	163.4	130.7	136.5	150.5	149.4	143.5
13015.7	62.5°	8570.2	2311.4	176.2	137.7	124.8	117.8	124.8	136.5	131.8	119.0
13809.2	65°	8543.4	1782.9	135.3	117.8	102.7	102.7	108.5	119.0	105.0	84.0
13960.9	67.5°	8045.1	1206.5	112.0	99.2	86.3	85.2	89.8	99.2	89.8	71.2
13183.8	70°	7154.9	788.8	89.8	77.0	68.8	63.0	72.3	85.2	75.8	57.2
11223.5	72.5°	5807.2	480.7	67.7	56.0	50.2	40.8	57.2	70.0	60.7	42.0
7804.8	75°	3757.1	245.0	46.7	36.2	26.8	24.5	42.0	52.5	42.0	25.7
3463.1	77.5°	1437.5	102.7	25.7	16.3	14.0	11.7	23.3	31.5	17.5	5.8
670.9	80°	276.5	43.2	12.8	8.2	7.0	4.7	3.5	2.3	0.0	0.0
119.0	82.5°	47.8	14.0	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
23.3	85°	16.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.2	87.5°	5.8	0.0	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°
2166.8
1315.0
770.1
626.6
578.7
534.4
492.4
453.9
416.6
380.4
344.2
315.0
290.5
271.9
254.4
240.4
221.7
206.5
196.0
185.5
178.5
172.7
165.7
157.5
143.5
116.7
81.7
68.8
54.8
39.7
22.2
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