

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: P953663

Luminaire Tested: **GALN-SB7A-927-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953663  
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-927-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

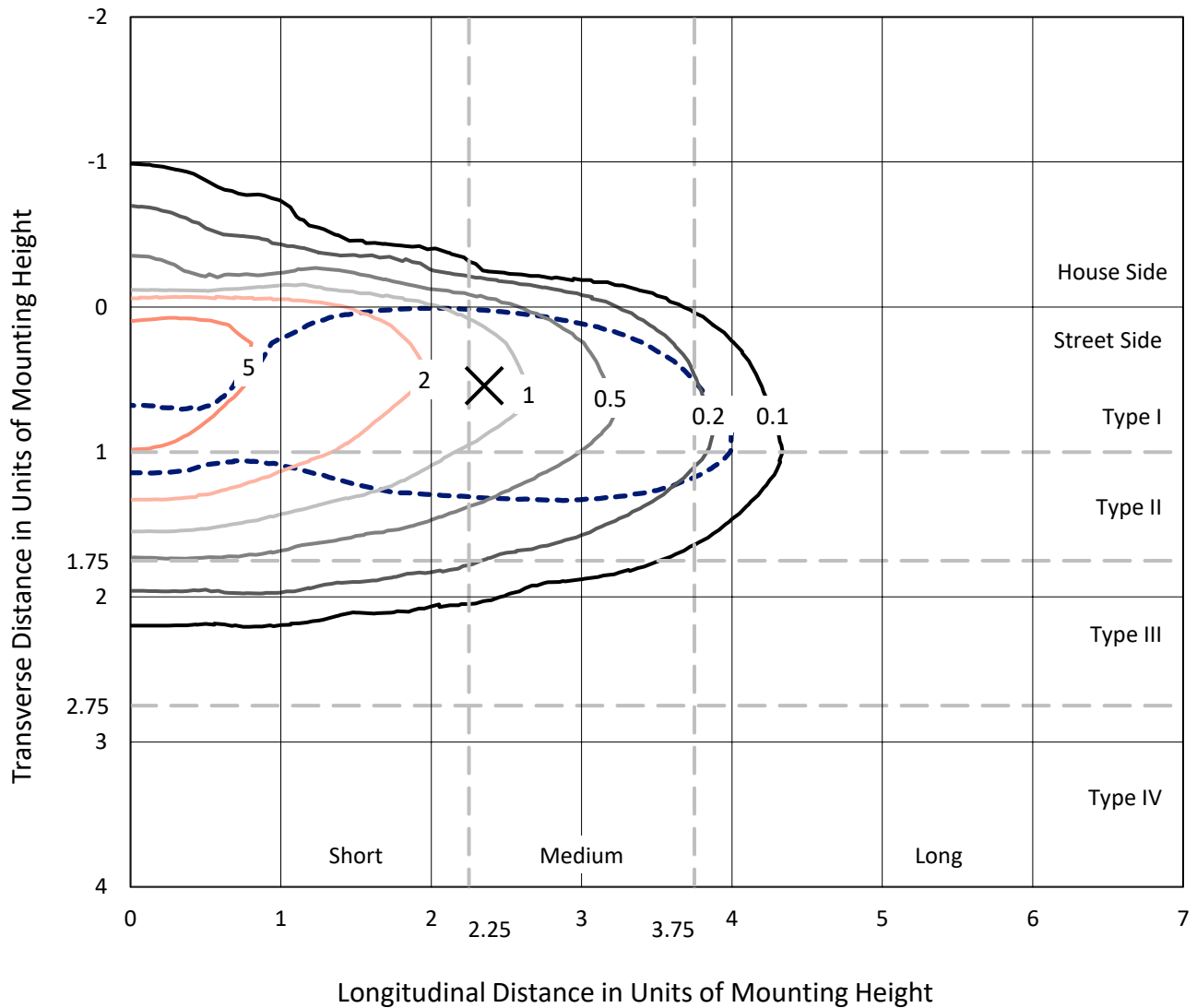
Lumens per Lamp: N/A  
Luminaire Lumens: 16441 lumens  
Efficiency: N/A  
Efficacy: 82.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

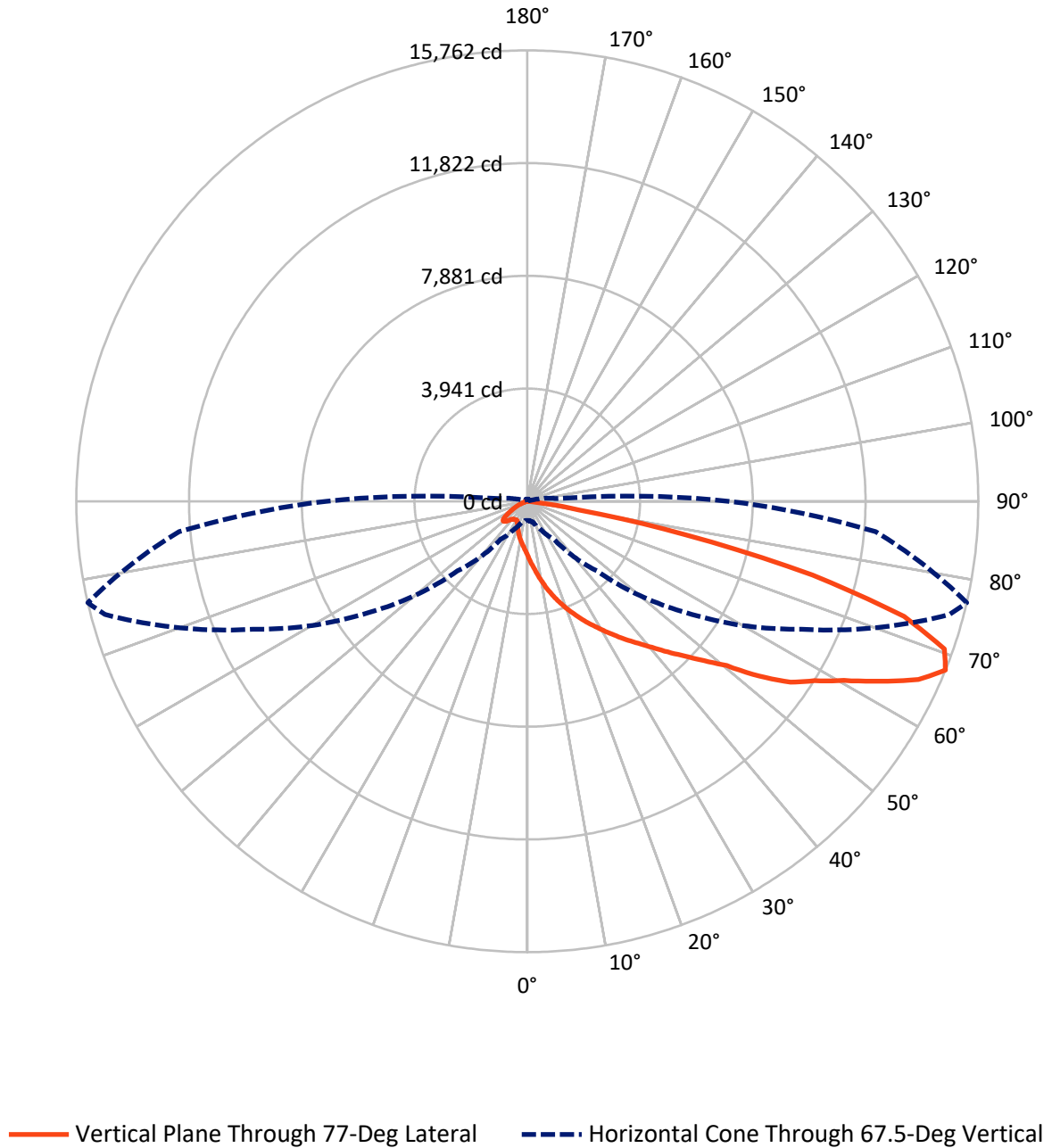
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	1209.6	0.0	1209.6
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	15231.4	0.0	15231.4
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	16441.0	0.0	16441.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.5	1.2
10°-20°	677.6	4.1
20°-30°	1307.7	8.0
30°-40°	2270.2	13.8
40°-50°	3296.1	20.0
50°-60°	3785.2	23.0
60°-70°	3286.3	20.0
70°-80°	1547.9	9.4
80°-90°	76.5	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°	16441.0	100.0
0°-180°	16441.0	100.0

**Coefficient of Utilization**



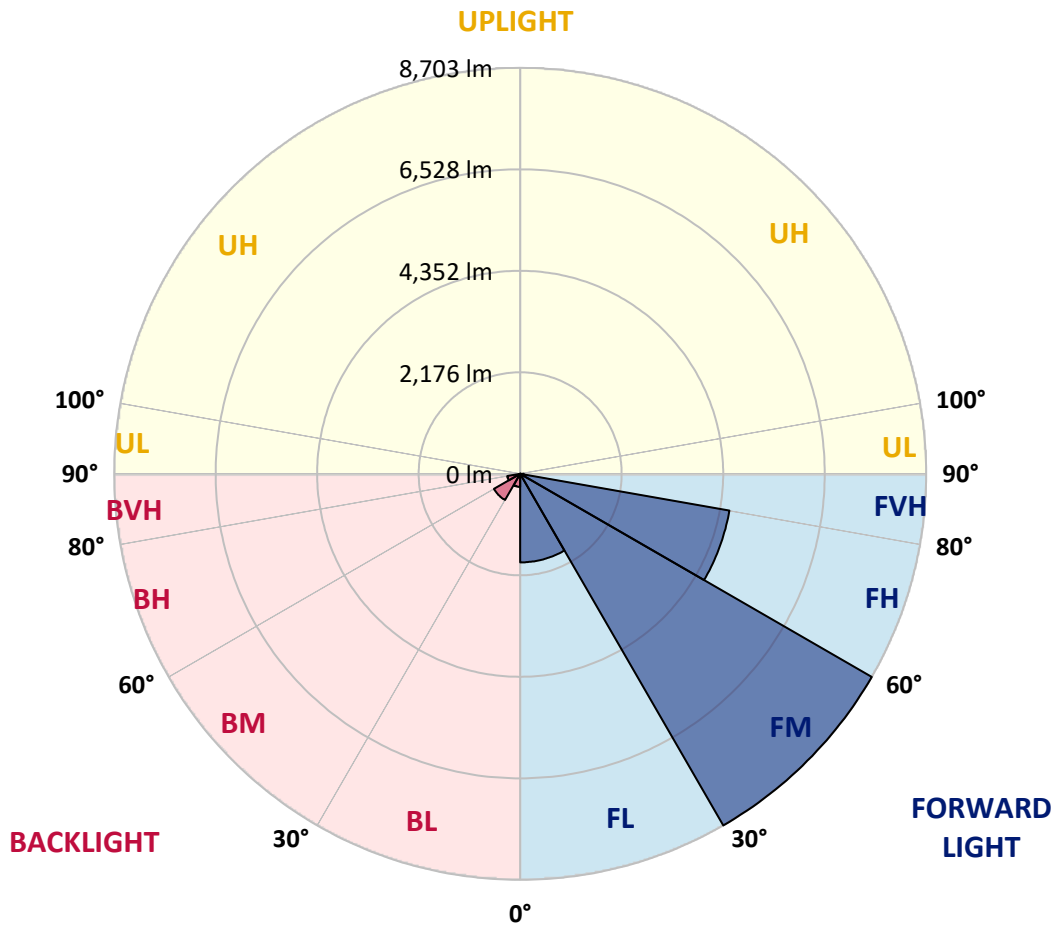
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1898.8	11.5			
FM (30°-60°)	8703.4	52.9			
FH (60°-80°)	4554.1	27.7			G2/5000
FVH (80°-90°)	75.1	0.5			G1/100
BL (0°-30°)	280.0	1.7	B1/500		
BM (30°-60°)	648.1	3.9	B1/1000		
BH (60°-80°)	280.0	1.7	B1/500		G1/500
BVH (80°-90°)	1.4	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-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9
2.5°	2624.8	2641.2	2617.7	2572.8	2505.4	2461.5	2354.3	2253.2	2140.9	2105.2
5°	3199.6	3213.9	3187.4	3138.4	3048.5	2962.8	2821.9	2610.5	2391.0	2320.6
7.5°	3625.4	3633.5	3623.3	3578.4	3492.6	3395.7	3238.4	2988.3	2662.6	2585.0
10°	3931.6	3958.2	3955.1	3937.8	3880.6	3802.0	3634.6	3349.7	2966.9	2866.8
12.5°	4134.8	4164.4	4181.8	4220.6	4217.5	4167.5	4020.5	3719.3	3270.1	3152.7
15°	4194.0	4225.7	4292.0	4381.9	4461.5	4487.0	4383.9	4081.7	3603.9	3453.8
17.5°	4160.3	4209.3	4289.0	4430.9	4605.5	4720.8	4709.6	4431.9	3907.1	3735.6
20°	4234.9	4281.8	4344.1	4463.6	4666.7	4876.0	4959.7	4766.8	4208.3	4028.6
22.5°	4647.3	4639.2	4645.3	4664.7	4786.2	4993.4	5166.0	5071.0	4506.4	4322.7
25°	5300.7	5264.0	5201.7	5096.5	5065.9	5166.0	5345.7	5340.5	4820.9	4623.8
27.5°	6050.1	6044.0	5898.0	5644.8	5501.9	5463.1	5548.8	5602.9	5132.3	4922.0
30°	6767.8	6784.2	6587.1	6305.3	6043.0	5890.8	5813.2	5852.0	5448.8	5243.6
32.5°	7392.6	7410.0	7195.6	6865.8	6541.2	6357.4	6194.1	6098.1	5793.8	5570.3
35°	7920.5	7937.8	7691.8	7327.3	6981.2	6814.8	6630.0	6367.6	6141.0	5932.7
37.5°	8392.1	8387.0	8057.3	7689.7	7349.8	7218.1	7121.1	6699.4	6498.3	6297.2
40°	8670.9	8692.3	8410.5	8005.2	7675.4	7579.5	7573.3	7110.9	6910.8	6715.8
42.5°	8752.5	8790.3	8586.1	8253.3	7954.2	7850.0	8010.3	7556.0	7390.6	7200.7
45°	8605.5	8642.3	8549.4	8318.6	8144.1	8076.7	8386.0	8017.5	7903.1	7715.3
47.5°	8176.7	8222.7	8245.1	8196.1	8194.1	8262.5	8722.9	8503.4	8511.6	8319.7
50°	7346.7	7424.3	7630.5	7804.1	8072.6	8409.5	9050.6	9030.2	9197.7	9032.3
52.5°	5837.7	5948.0	6658.6	7133.3	7736.7	8381.9	9411.0	9875.6	10401.4	10159.4
55°	4691.2	4691.2	5269.1	6157.3	7081.3	8200.2	9568.3	10424.8	11221.2	11164.0
57.5°	3824.4	3870.4	4239.0	5024.1	6132.8	7767.3	9665.3	10769.9	11881.7	11839.9
60°	2360.4	2459.4	3155.7	3930.6	5053.7	6996.5	9604.0	11119.1	12683.2	12716.9
62.5°	1329.3	1366.0	1676.4	2828.0	3929.6	5960.3	9135.4	11314.1	13708.2	13851.1
65°	917.8	936.2	1055.7	1760.1	2723.9	4745.3	8219.6	11192.6	14735.3	15024.2
67.5°	666.7	675.9	750.4	1075.1	1616.2	3440.6	6784.2	10580.0	15279.4	15762.3
70°	512.5	518.6	572.7	706.5	954.6	2123.6	4927.1	9362.0	14885.3	15462.2
72.5°	416.5	422.7	464.5	522.7	633.0	1255.8	2986.3	7603.0	13145.6	13768.4
75°	351.2	359.4	397.1	434.9	496.2	806.5	1400.7	5294.6	9885.8	10294.2
77.5°	195.0	179.7	322.6	360.4	418.6	510.5	655.4	3115.9	5536.6	5649.9
80°	121.5	125.6	256.3	289.9	321.6	257.3	300.2	1199.6	1919.4	1823.4
82.5°	7.1	16.3	197.0	209.3	220.5	110.3	113.3	407.4	462.5	424.7
85°	0.0	0.0	89.8	72.5	76.6	31.6	32.7	94.9	62.3	67.4
87.5°	0.0	0.0	0.0	2.0	0.0	3.1	6.1	8.2	3.1	4.1
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°
1895.9	0°	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9
1992.9	2.5°	1921.4	1849.9	1705.0	1563.1	1447.7	1340.5	1263.9	1191.4	1154.7	1152.6
2121.5	5°	1979.6	1829.5	1539.6	1283.3	1077.1	911.7	804.5	727.9	689.1	675.9
2279.8	7.5°	2061.3	1835.7	1394.6	1038.3	795.3	653.4	592.1	567.6	559.5	550.3
2458.4	10°	2164.4	1849.9	1264.9	836.2	626.9	555.4	530.9	520.7	514.6	508.4
2659.6	12.5°	2279.8	1863.2	1136.3	694.2	551.3	514.6	497.2	484.9	476.8	469.6
2865.8	15°	2392.1	1871.4	1002.6	595.2	512.5	482.9	464.5	451.3	440.0	431.9
3067.9	17.5°	2503.3	1882.6	877.0	536.0	480.9	451.3	432.9	416.5	407.4	398.2
3280.3	20°	2626.9	1880.6	758.6	494.1	449.2	419.6	400.2	384.9	375.7	365.5
3504.9	22.5°	2741.2	1870.4	654.4	458.4	416.5	388.0	366.5	351.2	342.0	333.8
3734.6	25°	2872.9	1862.2	567.6	425.7	385.9	357.3	333.8	319.6	309.3	302.2
3965.3	27.5°	2999.5	1849.9	504.3	396.1	356.3	328.7	306.3	289.9	280.8	275.7
4203.2	30°	3124.1	1846.9	480.9	367.5	329.8	302.2	279.7	264.4	257.3	255.2
4464.6	32.5°	3274.2	1855.1	491.1	357.3	305.3	277.7	256.3	245.0	237.9	237.9
4755.5	35°	3434.4	1853.0	506.4	366.5	288.9	253.2	236.9	229.7	222.6	222.6
5078.2	37.5°	3635.6	1856.1	518.6	381.8	282.8	232.8	223.6	214.4	210.3	210.3
5431.4	40°	3935.7	1957.1	512.5	395.1	280.8	218.5	200.1	197.0	194.0	194.0
5830.6	42.5°	4303.3	2176.6	520.7	396.1	279.7	208.3	183.8	189.9	182.7	181.7
6280.8	45°	4705.5	2416.6	572.7	374.7	278.7	203.2	175.6	182.7	171.5	171.5
6802.5	47.5°	5104.7	2654.4	625.8	344.1	275.7	202.1	168.5	164.4	161.3	162.3
7482.5	50°	5655.0	2848.4	646.3	302.2	268.5	200.1	155.2	156.2	154.2	156.2
8441.1	52.5°	6254.3	2889.3	621.8	255.2	248.1	194.0	146.0	150.1	149.1	151.1
9116.0	55°	6628.0	2845.4	513.5	212.4	216.4	169.5	136.8	145.0	145.0	145.0
9775.5	57.5°	7013.9	2658.5	364.5	172.5	179.7	138.8	128.6	139.9	138.8	137.8
10569.8	60°	7291.6	2356.3	239.9	141.9	142.9	114.3	119.5	131.7	130.7	125.6
11388.6	62.5°	7498.8	2022.5	154.2	120.5	109.2	103.1	109.2	119.5	115.4	104.1
12082.8	65°	7475.3	1560.0	118.4	103.1	89.8	89.8	94.9	104.1	91.9	73.5
12215.6	67.5°	7039.4	1055.7	98.0	86.8	75.5	74.5	78.6	86.8	78.6	62.3
11535.6	70°	6260.4	690.2	78.6	67.4	60.2	55.1	63.3	74.5	66.4	50.0
9820.4	72.5°	5081.2	420.6	59.2	49.0	43.9	35.7	50.0	61.3	53.1	36.8
6829.1	75°	3287.4	214.4	40.8	31.6	23.5	21.4	36.8	45.9	36.8	22.5
3030.2	77.5°	1257.8	89.8	22.5	14.3	12.3	10.2	20.4	27.6	15.3	5.1
587.0	80°	242.0	37.8	11.2	7.1	6.1	4.1	3.1	2.0	0.0	0.0
104.1	82.5°	41.9	12.3	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
20.4	85°	14.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.1	87.5°	5.1	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°
1895.9
1150.6
673.8
548.2
506.4
467.6
430.8
397.1
364.5
332.8
301.2
275.7
254.2
237.9
222.6
210.3
194.0
180.7
171.5
162.3
156.2
151.1
145.0
137.8
125.6
102.1
71.5
60.2
48.0
34.7
19.4
4.1
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