

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: P956357

Luminaire Tested: **GALN-SB9A-740-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956357  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB9A-740-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

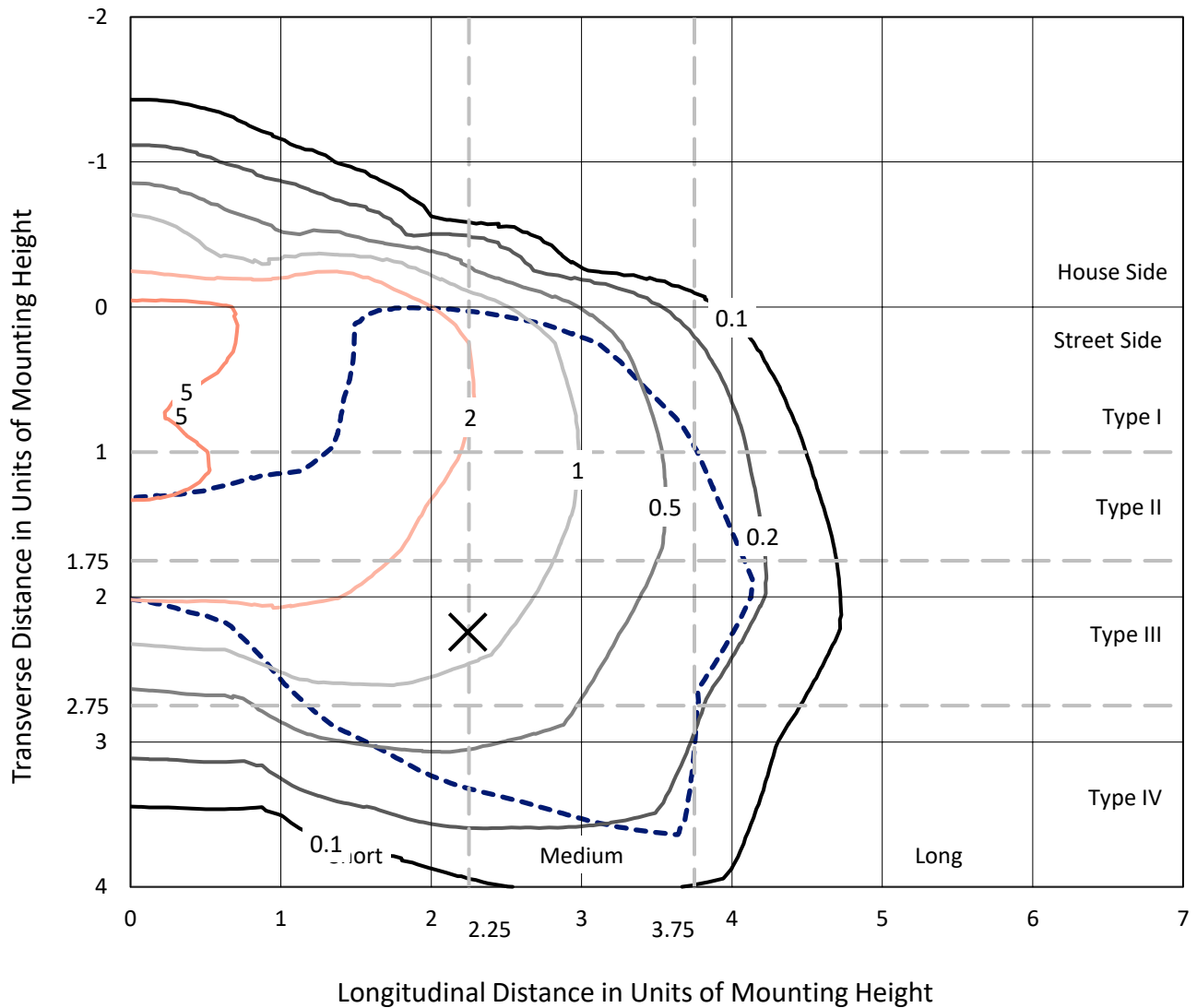
Lumens per Lamp: N/A  
Luminaire Lumens: 33297 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

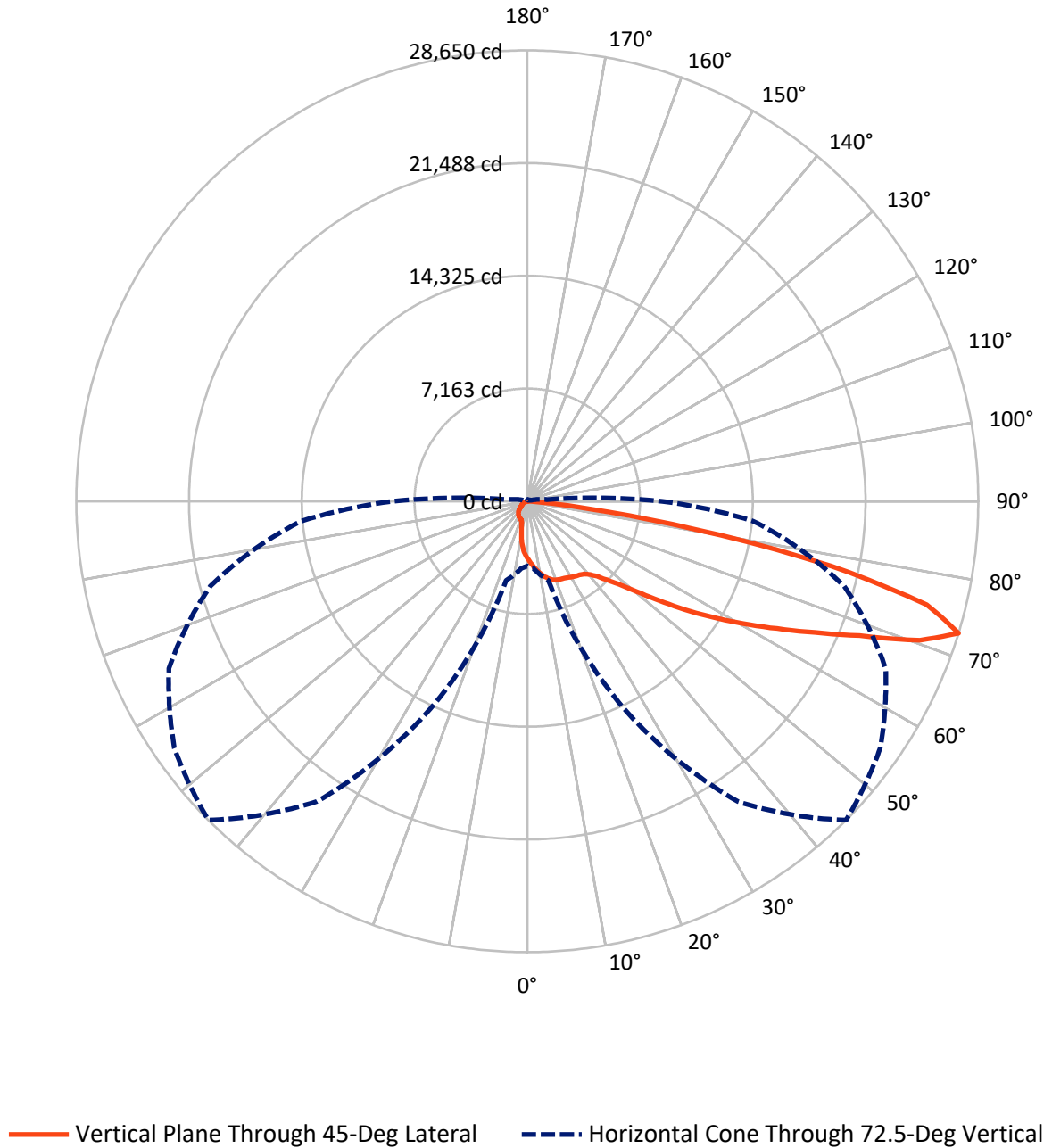
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3498.6	0.0	3498.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	29798.4	0.0	29798.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	33297.0	0.0	33297.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.7	1.0
10°-20°	1004.5	3.0
20°-30°	1649.5	5.0
30°-40°	2339.4	7.0
40°-50°	3866.7	11.6
50°-60°	6946.1	20.9
60°-70°	9645.1	29.0
70°-80°	6996.2	21.0
80°-90°	505.8	1.5
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°	33297.0	100.0
0°-180°	33297.0	100.0

**Coefficient of Utilization**



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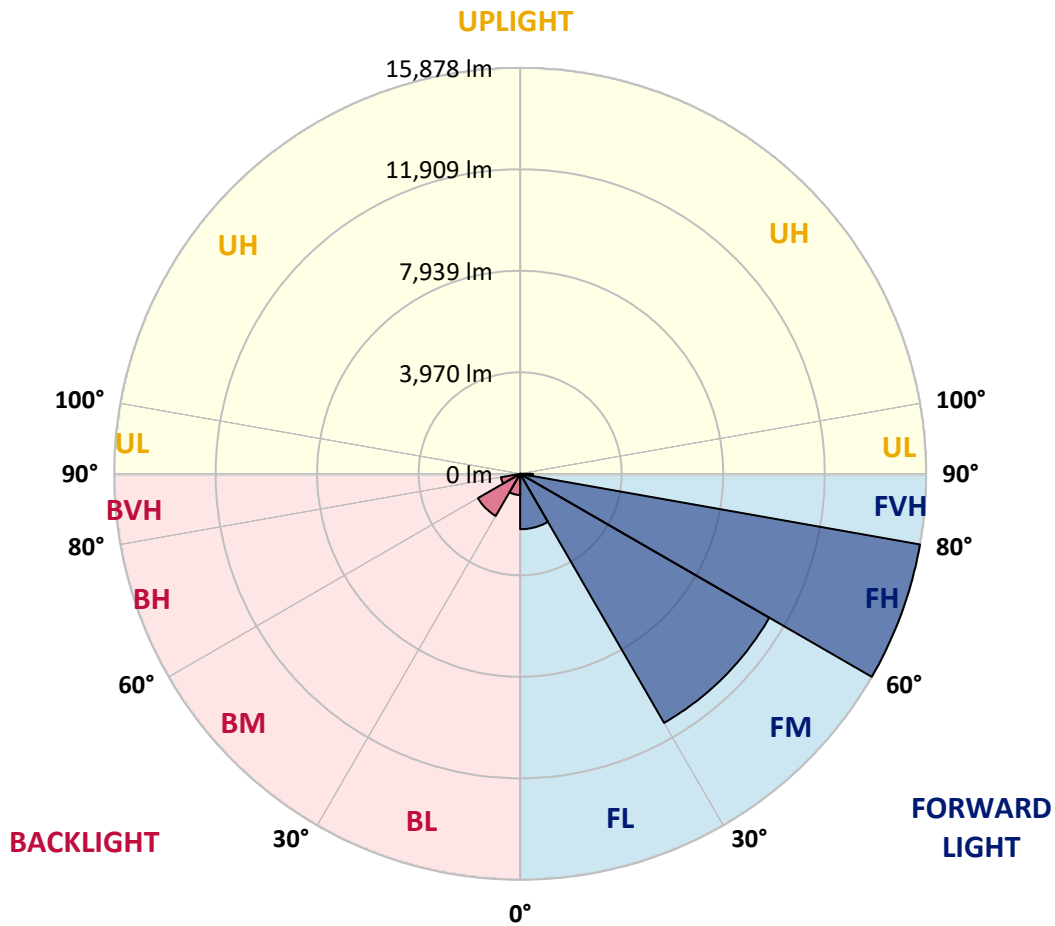
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2169.0	6.5			
FM (30°-60°)	11249.5	33.8			
FH (60°-80°)	15878.4	47.7			G5
FVH (80°-90°)	501.6	1.5			G4/750
BL (0°-30°)	828.7	2.5	B2/1000		
BM (30°-60°)	1902.7	5.7	B2/2500		
BH (60°-80°)	762.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8
2.5°	3984.1	3990.9	3986.4	3959.1	3913.7	3888.7	3875.0	3829.6	3800.0	3747.8
5°	4350.0	4377.3	4361.4	4306.9	4220.5	4159.1	4140.9	4047.8	3963.7	3865.9
7.5°	4738.7	4752.3	4722.8	4652.3	4536.4	4431.9	4415.9	4286.4	4152.3	4002.3
10°	5075.0	5091.0	5045.5	4943.2	4811.4	4681.9	4659.1	4515.9	4356.9	4172.8
12.5°	5356.9	5372.8	5313.7	5191.0	5045.5	4911.4	4888.7	4738.7	4563.7	4359.1
15°	5570.5	5600.0	5520.5	5388.7	5231.9	5097.8	5086.4	4938.7	4768.2	4540.9
17.5°	5695.5	5725.0	5650.0	5491.0	5356.9	5243.2	5229.6	5106.9	4947.8	4729.6
20°	5716.0	5743.2	5663.7	5525.0	5413.7	5322.8	5316.0	5227.3	5111.4	4902.3
22.5°	5654.6	5688.7	5616.0	5504.6	5427.3	5379.6	5370.5	5320.5	5254.6	5077.3
25°	5591.0	5618.2	5563.7	5466.0	5425.0	5420.5	5427.3	5418.2	5404.6	5254.6
27.5°	5586.4	5616.0	5554.6	5461.4	5438.7	5486.4	5493.2	5536.4	5547.8	5416.0
30°	5625.0	5645.5	5586.4	5488.7	5477.3	5586.4	5588.7	5666.0	5684.1	5552.3
32.5°	5709.1	5731.9	5672.8	5529.6	5513.7	5666.0	5672.8	5775.0	5804.6	5697.8
35°	5906.9	5934.1	5866.0	5643.2	5586.4	5741.0	5761.4	5881.9	5941.0	5852.3
37.5°	6400.1	6320.5	6227.3	5872.8	5752.3	5859.1	5893.2	6034.1	6138.7	6036.4
40°	7625.1	7375.1	7084.1	6263.7	6043.2	6111.4	6138.7	6279.6	6422.8	6322.8
42.5°	9463.7	9168.3	8700.1	7163.7	6481.9	6516.0	6536.4	6659.1	6861.4	6781.9
45°	11102.4	10995.5	10518.3	8700.1	7302.3	7134.1	7159.1	7222.8	7520.5	7491.0
47.5°	12361.5	12300.1	11931.9	10463.7	8688.7	7891.0	7961.4	7991.0	8420.5	8525.1
50°	13329.7	13306.9	12977.4	12031.9	10500.1	9006.9	9031.9	8968.3	9611.4	9870.5
52.5°	14243.3	14320.6	14077.4	13488.7	12434.2	10468.3	10463.7	10163.7	11031.9	11422.8
55°	15068.3	15095.6	15120.6	14975.1	14379.7	12131.9	12088.7	11597.8	12679.6	13084.2
57.5°	15843.3	15854.7	16077.4	16375.1	16404.7	13918.3	13838.7	13250.1	14479.7	14768.3
60°	16363.8	16416.0	16886.5	17713.8	18075.1	15761.5	15718.3	15118.3	16311.5	16445.6
62.5°	15613.8	15931.9	17118.3	18759.2	19652.4	17804.7	17784.2	17220.6	18238.8	18129.7
65°	12638.7	13177.4	15263.8	19466.1	21200.2	20086.5	20116.1	19516.1	20218.3	19863.8
67.5°	8841.0	9409.2	11877.4	19522.9	22929.7	22766.1	22936.6	21995.6	22320.6	21525.2
70°	6113.7	6406.9	8013.7	18300.2	24277.5	26457.0	26452.5	25041.1	24411.6	22282.0
72.5°	4111.4	4263.7	5204.6	14518.3	23286.6	28650.2	28518.4	27368.4	25116.1	20838.8
75°	1734.1	1845.5	2409.1	8159.2	18422.9	26211.6	25854.8	24186.6	22316.1	16409.2
77.5°	550.0	597.7	950.0	2920.5	10147.8	19702.4	19325.2	15104.7	14956.9	8231.9
80°	261.4	304.5	534.1	1172.7	3993.2	10716.0	10663.7	6852.3	6434.1	2222.7
82.5°	113.6	134.1	295.5	627.3	1786.4	3822.8	3900.0	2331.8	1929.6	843.2
85°	36.4	47.7	136.4	288.6	754.6	950.0	938.6	554.6	777.3	459.1
87.5°	0.0	0.0	45.5	65.9	77.3	54.5	61.4	47.7	215.9	127.3
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°
3647.8	0°	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8
3693.2	2.5°	3665.9	3629.6	3565.9	3506.8	3454.6	3402.3	3370.5	3325.0	3320.5	3320.5
3752.3	5°	3690.9	3631.8	3518.2	3397.8	3259.1	3127.3	2995.5	2868.2	2827.3	2797.8
3847.8	7.5°	3763.7	3670.5	3490.9	3261.4	2997.8	2709.1	2506.8	2288.7	2204.6	2159.1
3975.0	10°	3868.2	3740.9	3468.2	3065.9	2638.7	2245.5	1956.8	1720.5	1629.6	1590.9
4113.7	12.5°	3984.1	3827.3	3427.3	2822.8	2245.5	1775.0	1493.2	1384.1	1370.5	1370.5
4279.6	15°	4122.8	3931.9	3356.8	2536.4	1834.1	1404.6	1304.6	1309.1	1322.7	1331.8
4440.9	17.5°	4265.9	4043.2	3245.5	2215.9	1470.5	1263.6	1265.9	1272.7	1284.1	1293.2
4615.9	20°	4420.5	4154.6	3097.8	1875.0	1261.4	1222.7	1229.6	1236.4	1245.5	1250.0
4779.6	22.5°	4586.4	4259.1	2922.8	1540.9	1190.9	1188.6	1190.9	1197.7	1209.1	1209.1
4970.5	25°	4763.7	4375.0	2722.7	1297.7	1154.6	1154.6	1159.1	1163.6	1172.7	1172.7
5154.6	27.5°	4945.5	4481.9	2511.4	1170.5	1122.7	1120.5	1120.5	1127.3	1131.8	1134.1
5336.4	30°	5145.5	4606.9	2300.0	1143.2	1097.7	1086.4	1079.6	1084.1	1088.6	1090.9
5527.3	32.5°	5350.0	4727.3	2111.4	1154.6	1072.7	1052.3	1029.6	1025.0	1025.0	1034.1
5725.0	35°	5577.3	4859.1	1965.9	1193.2	1059.1	1002.3	965.9	945.5	947.7	961.4
5961.4	37.5°	5850.0	5018.2	1859.1	1227.3	1050.0	945.5	886.4	861.4	845.5	861.4
6286.4	40°	6206.9	5252.3	1781.8	1254.6	1038.6	879.6	800.0	759.1	729.6	738.6
6791.0	42.5°	6731.9	5620.5	1752.3	1256.8	1013.6	802.3	711.4	656.8	613.6	615.9
7550.1	45°	7468.2	6202.3	1904.6	1227.3	959.1	718.2	618.2	545.5	518.2	511.4
8684.2	47.5°	8477.3	7050.1	2256.8	1165.9	879.6	636.4	527.3	465.9	445.5	434.1
10172.8	50°	9829.6	8138.7	2647.7	1097.7	800.0	559.1	452.3	413.6	400.0	388.6
11938.7	52.5°	11397.8	9243.3	2968.2	1029.6	720.5	490.9	404.5	381.8	370.5	361.4
13643.3	55°	12836.5	10004.6	2950.0	956.8	643.2	436.4	370.5	356.8	343.2	334.1
15111.5	57.5°	13731.9	10111.4	2431.8	877.3	554.6	393.2	338.6	329.5	313.6	302.3
16382.0	60°	14143.3	9502.4	1704.6	772.7	465.9	352.3	304.5	300.0	279.5	263.6
17584.2	62.5°	14218.3	8370.5	1136.4	643.2	388.6	313.6	270.5	263.6	236.4	209.1
18561.5	65°	13913.8	6752.3	786.4	502.3	331.8	272.7	231.8	218.2	188.6	161.4
18793.3	67.5°	12950.1	4740.9	547.7	361.4	281.8	215.9	184.1	179.5	156.8	134.1
17611.5	70°	11184.2	2702.3	365.9	270.5	222.7	147.7	145.5	150.0	127.3	109.1
14388.8	72.5°	8575.1	1236.4	227.3	197.7	152.3	100.0	115.9	118.2	97.7	81.8
8977.3	75°	5047.8	529.5	143.2	127.3	77.3	65.9	84.1	86.4	65.9	52.3
3281.8	77.5°	1718.2	200.0	90.9	75.0	38.6	36.4	54.5	54.5	36.4	20.5
659.1	80°	390.9	75.0	45.5	29.5	18.2	15.9	18.2	15.9	9.1	2.3
202.3	82.5°	111.4	29.5	18.2	11.4	6.8	6.8	2.3	0.0	0.0	0.0
70.5	85°	31.8	13.6	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
25.0	87.5°	13.6	2.3	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

<u>180°</u>
3647.8
3331.8
2811.4
2165.9
1590.9
1370.5
1331.8
1293.2
1252.3
1213.6
1175.0
1136.4
1095.5
1040.9
968.2
856.8
734.1
606.8
502.3
427.3
386.4
359.1
329.5
300.0
259.1
195.5
152.3
127.3
100.0
72.7
45.5
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