

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: P956336

Luminaire Tested: **GALN-SB9A-735-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956336  
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-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

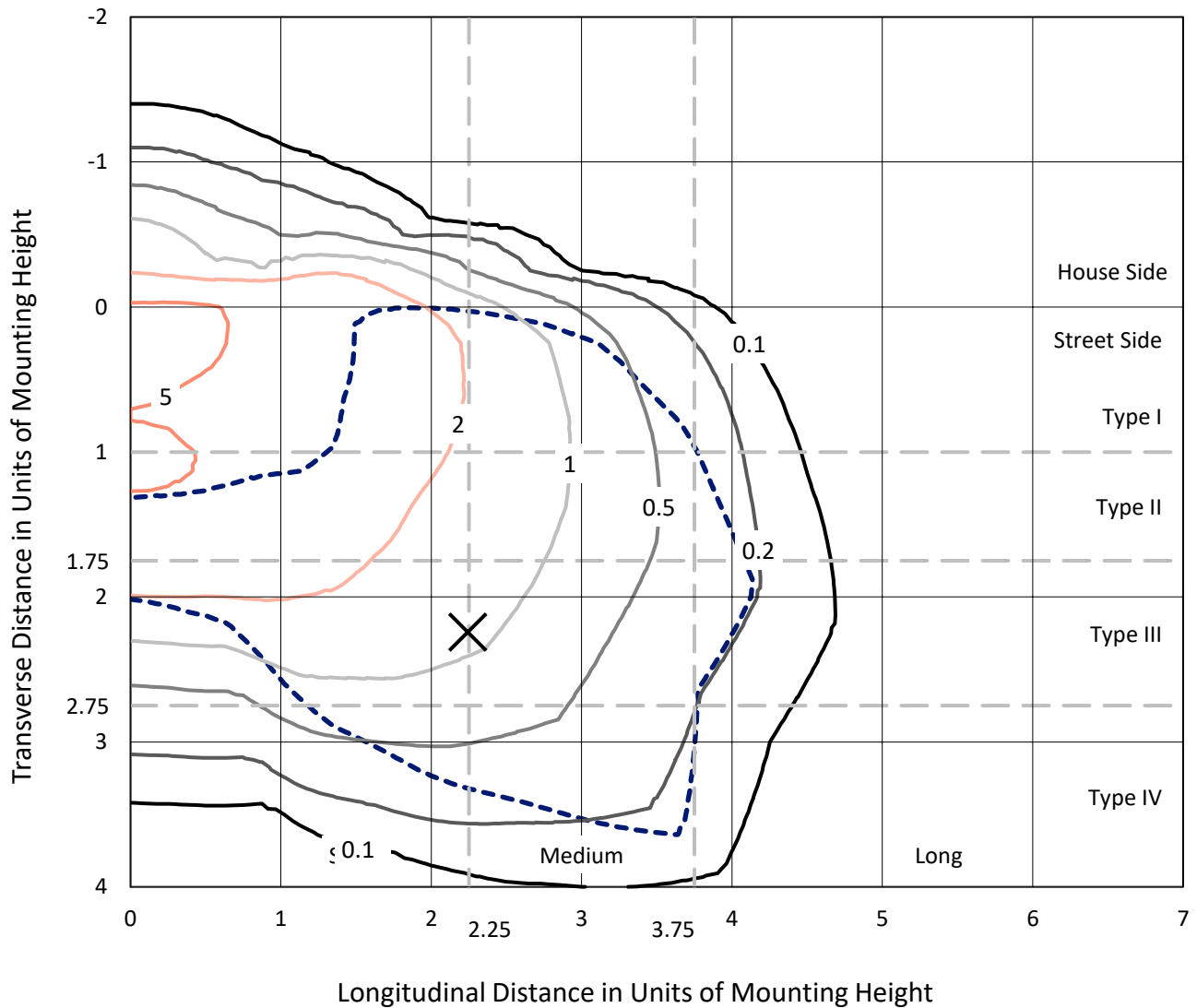
Lumens per Lamp: N/A  
Luminaire Lumens: 31472 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

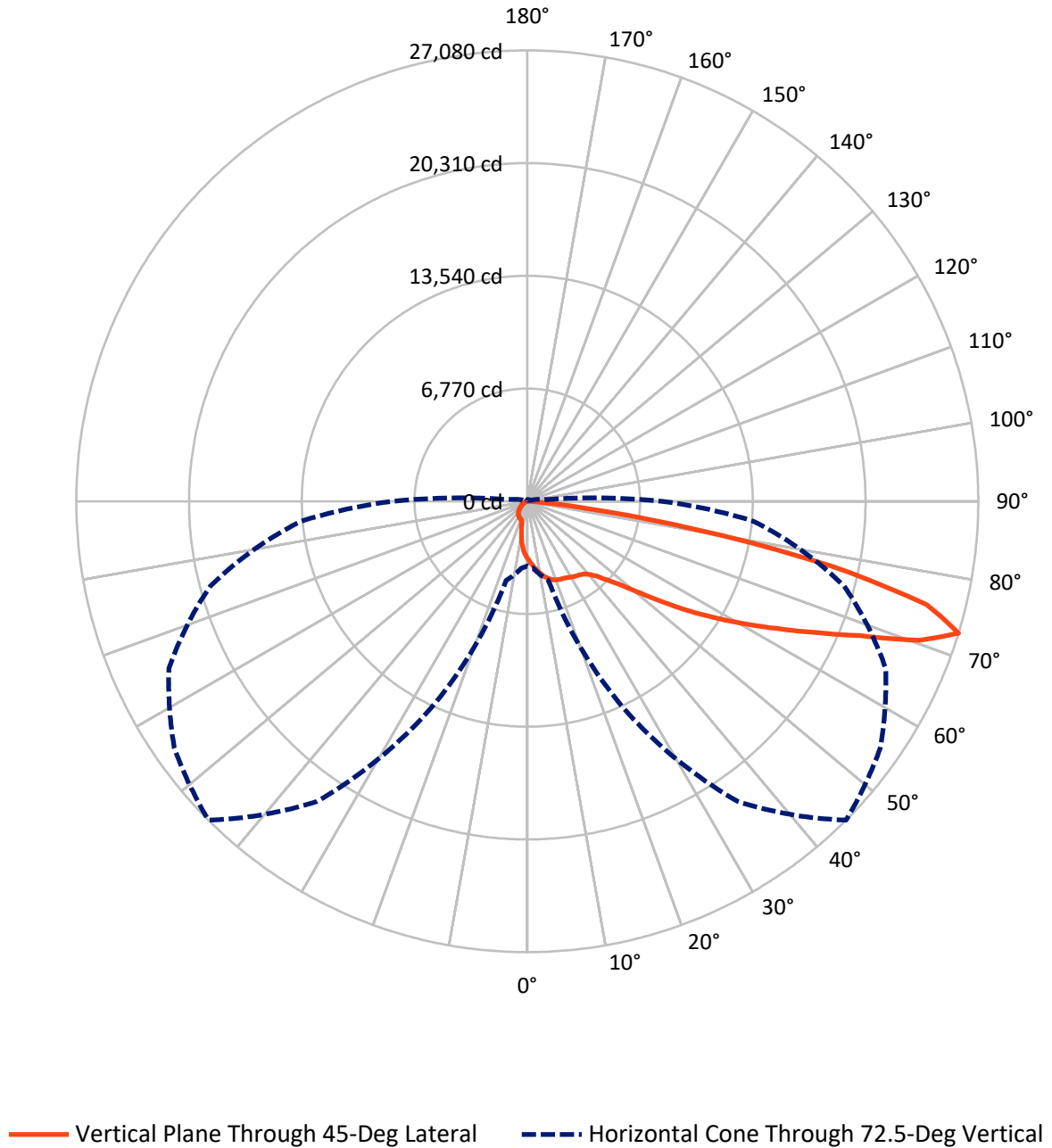
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	3306.8	0.0	3306.8
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	28165.2	0.0	28165.2
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	31472.0	0.0	31472.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.8	1.0
10°-20°	949.4	3.0
20°-30°	1559.1	5.0
30°-40°	2211.1	7.0
40°-50°	3654.8	11.6
50°-60°	6565.4	20.9
60°-70°	9116.4	29.0
70°-80°	6612.8	21.0
80°-90°	478.1	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°	31472.0	100.0
0°-180°	31472.0	100.0

**Coefficient of Utilization**



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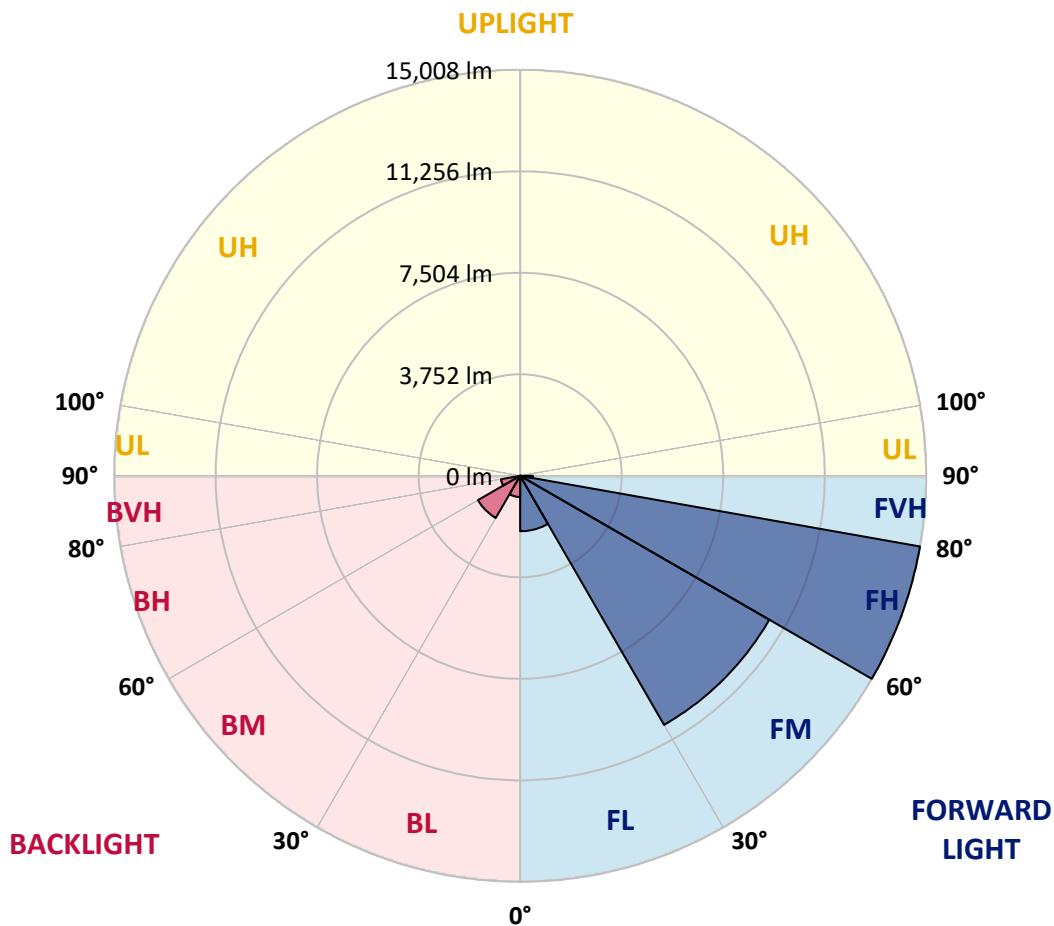
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2050.1	6.5			
FM (30°-60°)	10632.9	33.8			
FH (60°-80°)	15008.1	47.7			G5
FVH (80°-90°)	474.1	1.5			G3/500
BL (0°-30°)	783.3	2.5	B2/1000		
BM (30°-60°)	1798.4	5.7	B2/2500		
BH (60°-80°)	721.1	2.3	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: B2-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3447.8	3447.8	3447.8	3447.8	3447.8	3447.8	3447.8	3447.8	3447.8	3447.8
2.5°	3765.8	3772.2	3767.9	3742.1	3699.2	3675.5	3662.6	3619.7	3591.8	3542.3
5°	4111.6	4137.4	4122.4	4070.8	3989.2	3931.2	3914.0	3825.9	3746.4	3654.0
7.5°	4478.9	4491.8	4463.9	4397.3	4287.8	4188.9	4173.9	4051.5	3924.7	3782.9
10°	4796.9	4811.9	4769.0	4672.3	4547.7	4425.2	4403.8	4268.4	4118.1	3944.1
12.5°	5063.3	5078.3	5022.4	4906.4	4769.0	4642.2	4620.7	4478.9	4313.5	4120.2
15°	5265.2	5293.1	5217.9	5093.3	4945.1	4818.4	4807.6	4668.0	4506.9	4292.1
17.5°	5383.3	5411.3	5340.4	5190.0	5063.3	4955.8	4943.0	4827.0	4676.6	4470.4
20°	5402.7	5428.4	5353.3	5222.2	5117.0	5031.0	5024.6	4940.8	4831.3	4633.6
22.5°	5344.7	5376.9	5308.1	5202.9	5129.8	5084.7	5076.1	5028.9	4966.6	4799.0
25°	5284.5	5310.3	5258.7	5166.4	5127.7	5123.4	5129.8	5121.3	5108.4	4966.6
27.5°	5280.2	5308.1	5250.1	5162.1	5140.6	5185.7	5192.1	5233.0	5243.7	5119.1
30°	5316.7	5336.1	5280.2	5187.8	5177.1	5280.2	5282.4	5355.4	5372.6	5248.0
32.5°	5396.2	5417.7	5361.9	5226.5	5211.5	5355.4	5361.9	5458.5	5486.4	5385.5
35°	5583.1	5608.9	5544.4	5333.9	5280.2	5426.3	5445.6	5559.5	5615.3	5531.6
37.5°	6049.3	5974.1	5886.0	5550.9	5437.0	5538.0	5570.2	5703.4	5802.2	5705.6
40°	7207.1	6970.8	6695.9	5920.4	5712.0	5776.4	5802.2	5935.4	6070.7	5976.2
42.5°	8945.0	8665.7	8223.2	6771.1	6126.6	6158.8	6178.2	6294.2	6485.3	6410.2
45°	10493.8	10392.9	9941.8	8223.2	6902.1	6743.1	6766.8	6826.9	7108.3	7080.4
47.5°	11683.9	11625.9	11277.9	9890.2	8212.5	7458.5	7525.1	7553.0	7959.0	8057.8
50°	12599.1	12577.6	12266.1	11372.5	9924.6	8513.2	8536.9	8476.7	9084.6	9329.5
52.5°	13462.6	13535.7	13305.8	12749.4	11752.7	9894.5	9890.2	9606.6	10427.3	10796.7
55°	14242.4	14268.2	14291.8	14154.3	13591.5	11467.0	11426.2	10962.1	11984.7	12367.1
57.5°	14974.9	14985.7	15196.2	15477.6	15505.5	13155.4	13080.3	12523.9	13686.0	13958.9
60°	15466.9	15516.3	15961.0	16742.9	17084.5	14897.6	14856.8	14289.7	15417.5	15544.2
62.5°	14758.0	15058.7	16180.1	17731.1	18575.3	16828.8	16809.5	16276.7	17239.1	17136.0
65°	11946.0	12455.1	14427.2	18399.1	20038.2	18985.6	19013.5	18446.4	19110.2	18775.1
67.5°	8356.4	8893.5	11226.4	18452.8	21673.0	21518.3	21679.4	20790.1	21097.2	20345.4
70°	5778.6	6055.7	7574.5	17297.1	22946.8	25006.9	25002.6	23668.6	23073.6	21060.7
72.5°	3886.1	4030.0	4919.3	13722.6	22010.2	27079.9	26955.3	25868.4	23739.5	19696.6
75°	1639.1	1744.3	2277.1	7712.0	17413.1	24774.9	24437.7	22860.9	21093.0	15509.8
77.5°	519.9	565.0	897.9	2760.4	9591.6	18622.5	18266.0	14276.8	14137.2	7780.7
80°	247.0	287.9	504.8	1108.5	3774.3	10128.7	10079.2	6476.8	6081.5	2100.9
82.5°	107.4	126.7	279.3	592.9	1688.5	3613.2	3686.3	2204.0	1823.8	797.0
85°	34.4	45.1	128.9	272.8	713.2	897.9	887.2	524.2	734.7	433.9
87.5°	0.0	0.0	43.0	62.3	73.0	51.6	58.0	45.1	204.1	120.3
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°
3447.8	0°	3447.8	3447.8	3447.8	3447.8	3447.8	3447.8	3447.8	3447.8	3447.8	3447.8
3490.8	2.5°	3465.0	3430.6	3370.5	3314.6	3265.2	3215.8	3185.7	3142.8	3138.5	3138.5
3546.6	5°	3488.6	3432.8	3325.4	3211.5	3080.5	2955.9	2831.3	2711.0	2672.3	2644.4
3636.9	7.5°	3557.4	3469.3	3299.6	3082.6	2833.4	2560.6	2369.4	2163.2	2083.7	2040.8
3757.2	10°	3656.2	3535.9	3278.1	2897.9	2494.0	2122.4	1849.6	1626.2	1540.2	1503.7
3888.2	12.5°	3765.8	3617.5	3239.5	2668.0	2122.4	1677.7	1411.4	1308.2	1295.4	1295.4
4045.0	15°	3896.8	3716.3	3172.9	2397.4	1733.6	1327.6	1233.1	1237.4	1250.2	1258.8
4197.5	17.5°	4032.1	3821.6	3067.6	2094.5	1389.9	1194.4	1196.5	1203.0	1213.7	1222.3
4362.9	20°	4178.2	3926.9	2928.0	1772.2	1192.2	1155.7	1162.2	1168.6	1177.2	1181.5
4517.6	22.5°	4335.0	4025.7	2762.6	1456.5	1125.6	1123.5	1125.6	1132.1	1142.8	1142.8
4698.1	25°	4502.6	4135.2	2573.5	1226.6	1091.3	1091.3	1095.6	1099.9	1108.5	1108.5
4872.1	27.5°	4674.4	4236.2	2373.7	1106.3	1061.2	1059.1	1059.1	1065.5	1069.8	1071.9
5043.9	30°	4863.5	4354.4	2174.0	1080.5	1037.6	1026.8	1020.4	1024.7	1029.0	1031.1
5224.4	32.5°	5056.8	4468.2	1995.7	1091.3	1013.9	994.6	973.1	968.8	968.8	977.4
5411.3	35°	5271.6	4592.8	1858.2	1127.8	1001.1	947.3	913.0	893.6	895.8	908.7
5634.7	37.5°	5529.4	4743.2	1757.2	1160.0	992.5	893.6	837.8	814.2	799.1	814.2
5941.9	40°	5866.7	4964.4	1684.2	1185.8	981.7	831.3	756.2	717.5	689.6	698.2
6418.8	42.5°	6362.9	5312.4	1656.2	1187.9	958.1	758.3	672.4	620.8	580.0	582.2
7136.2	45°	7058.9	5862.4	1800.2	1160.0	906.5	678.8	584.3	515.6	489.8	483.3
8208.2	47.5°	8012.7	6663.6	2133.1	1102.0	831.3	601.5	498.4	440.4	421.0	410.3
9615.2	50°	9290.9	7692.6	2502.6	1037.6	756.2	528.5	427.5	391.0	378.1	367.3
11284.4	52.5°	10773.1	8736.6	2805.5	973.1	681.0	464.0	382.4	360.9	350.2	341.6
12895.5	55°	12132.9	9456.3	2788.3	904.4	607.9	412.5	350.2	337.3	324.4	315.8
14283.2	57.5°	12979.3	9557.2	2298.5	829.2	524.2	371.6	320.1	311.5	296.4	285.7
15484.1	60°	13368.1	8981.5	1611.1	730.4	440.4	333.0	287.9	283.6	264.2	249.2
16620.4	62.5°	13439.0	7911.7	1074.1	607.9	367.3	296.4	255.6	249.2	223.4	197.6
17544.2	65°	13151.1	6382.2	743.3	474.7	313.6	257.8	219.1	206.2	178.3	152.5
17763.3	67.5°	12240.3	4481.1	517.7	341.6	266.4	204.1	174.0	169.7	148.2	126.7
16646.2	70°	10571.2	2554.2	345.9	255.6	210.5	139.6	137.5	141.8	120.3	103.1
13600.1	72.5°	8105.1	1168.6	214.8	186.9	143.9	94.5	109.6	111.7	92.4	77.3
8485.3	75°	4771.1	500.5	135.3	120.3	73.0	62.3	79.5	81.6	62.3	49.4
3102.0	77.5°	1624.0	189.0	85.9	70.9	36.5	34.4	51.6	51.6	34.4	19.3
623.0	80°	369.5	70.9	43.0	27.9	17.2	15.0	17.2	15.0	8.6	2.1
191.2	82.5°	105.3	27.9	17.2	10.7	6.4	6.4	2.1	0.0	0.0	0.0
66.6	85°	30.1	12.9	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0
23.6	87.5°	12.9	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

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<u>180°</u>
3447.8
3149.2
2657.3
2047.2
1503.7
1295.4
1258.8
1222.3
1183.6
1147.1
1110.6
1074.1
1035.4
983.9
915.1
809.9
693.9
573.6
474.7
403.9
365.2
339.4
311.5
283.6
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120.3
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