

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: P956498

Luminaire Tested: **GALN-SB9A-850-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956498  
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-SB9A-850-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

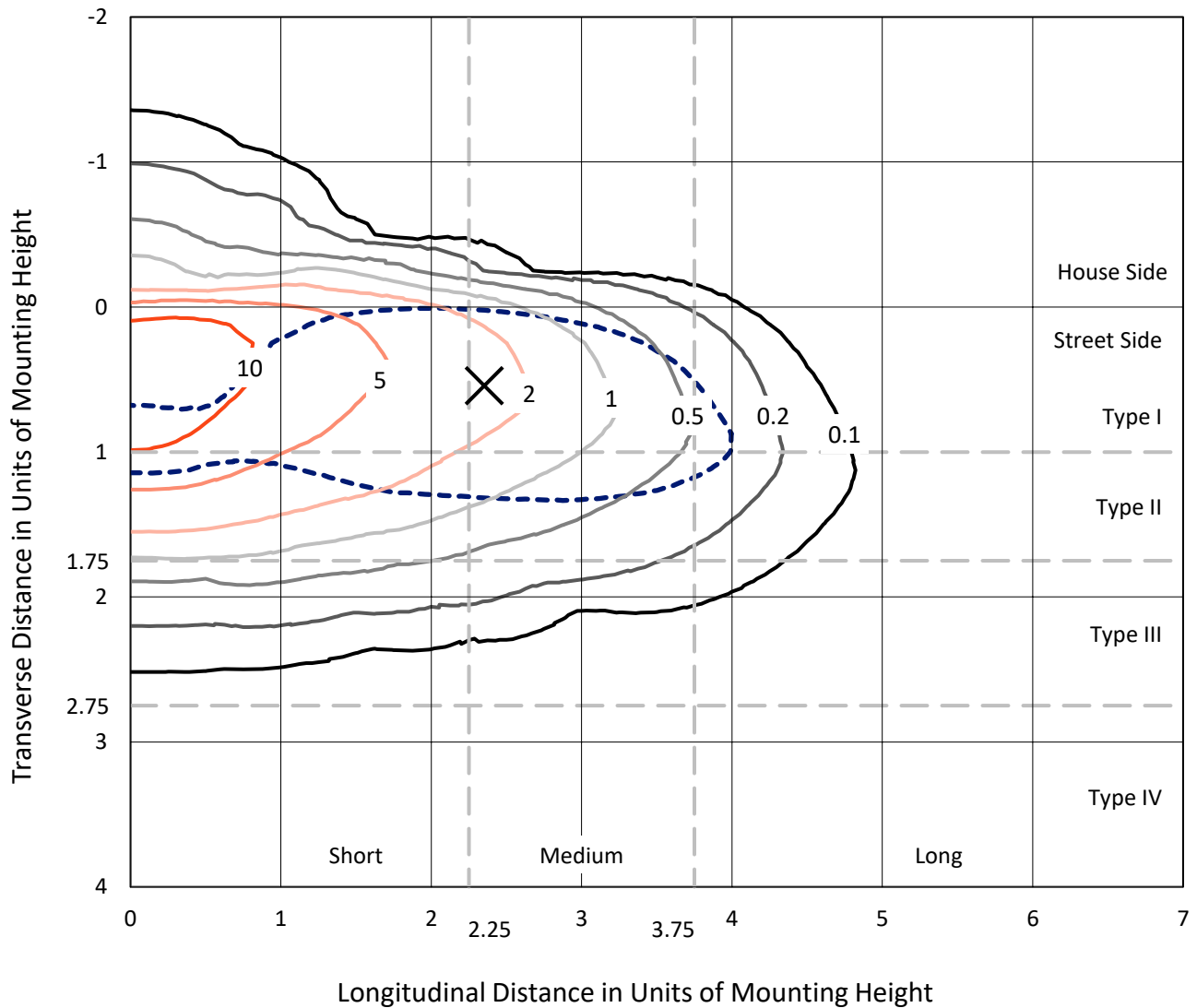
Lumens per Lamp: N/A  
Luminaire Lumens: 33090 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

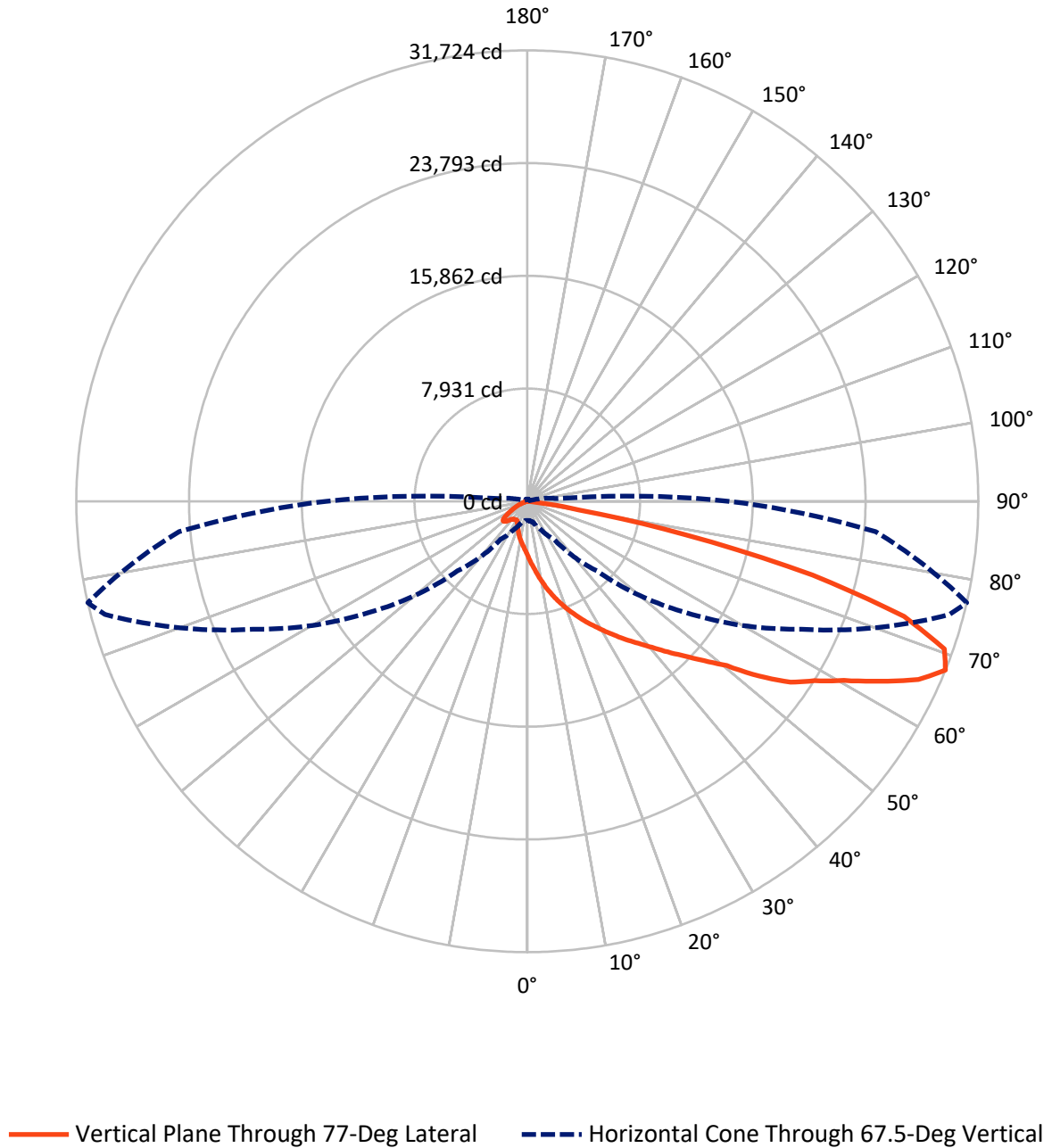
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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	2434.5	0.0	2434.5
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	30655.5	0.0	30655.5
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	33090.0	0.0	33090.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	389.5	1.2
10°-20°	1363.8	4.1
20°-30°	2631.9	8.0
30°-40°	4569.0	13.8
40°-50°	6634.0	20.0
50°-60°	7618.3	23.0
60°-70°	6614.1	20.0
70°-80°	3115.3	9.4
80°-90°	154.1	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°	33090.0	100.0
0°-180°	33090.0	100.0

**Coefficient of Utilization**



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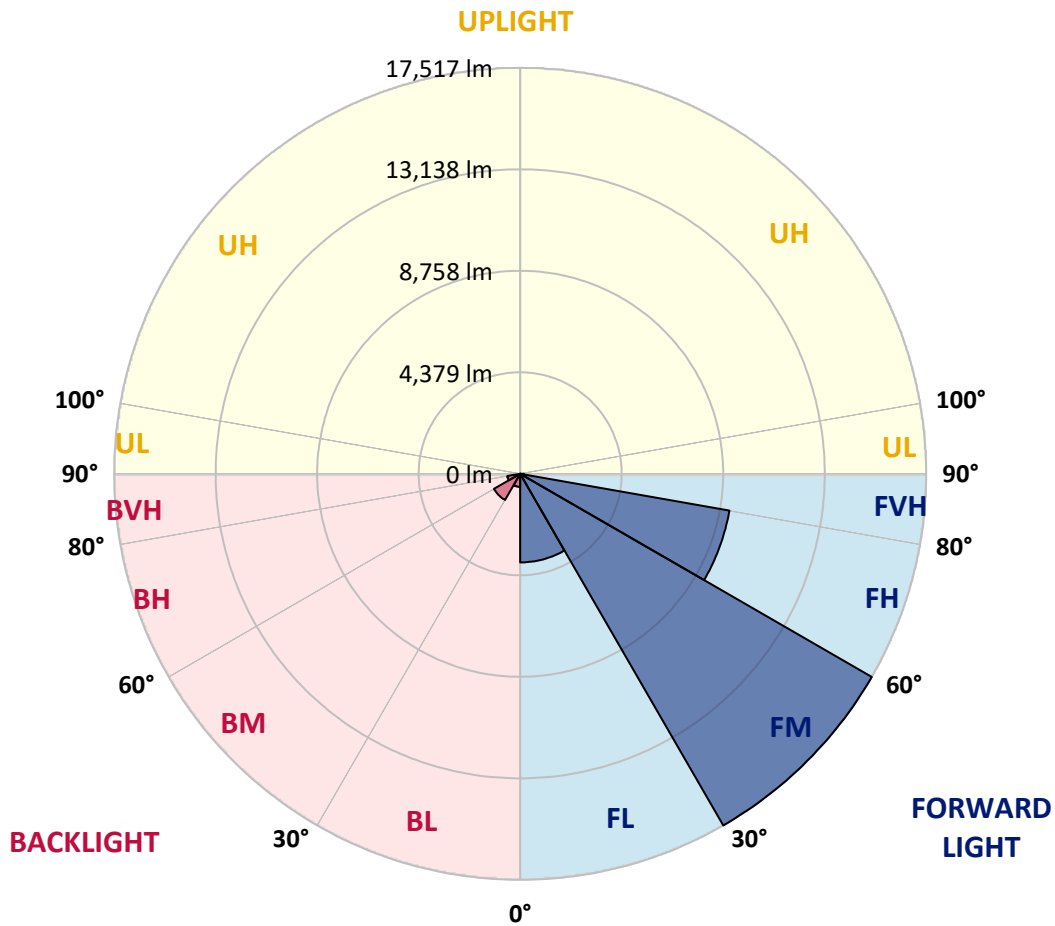
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3821.5	11.5			
FM (30°-60°)	17517.0	52.9			
FH (60°-80°)	9165.8	27.7			G4/12000
FVH (80°-90°)	151.2	0.5			G2/225
BL (0°-30°)	563.6	1.7	B2/1000		
BM (30°-60°)	1304.4	3.9	B2/2500		
BH (60°-80°)	563.6	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.8	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-G4**

Type II Medium



REPORT NUMBER: P956498

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3815.8	3815.8	3815.8	3815.8	3815.8	3815.8	3815.8	3815.8	3815.8	3815.8
2.5°	5282.9	5315.8	5268.5	5178.1	5042.5	4954.1	4738.4	4534.9	4308.9	4237.0
5°	6439.7	6468.5	6415.1	6316.5	6135.6	5963.0	5679.5	5254.1	4812.3	4670.6
7.5°	7296.6	7313.0	7292.5	7202.1	7029.5	6834.3	6517.8	6014.4	5358.9	5202.8
10°	7913.0	7966.5	7960.3	7925.4	7810.3	7652.1	7315.1	6741.8	5971.2	5769.9
12.5°	8321.9	8381.5	8416.5	8494.5	8488.4	8387.7	8091.8	7485.6	6581.5	6345.2
15°	8441.1	8504.8	8638.4	8819.2	8979.5	9030.8	8823.3	8215.1	7253.4	6951.4
17.5°	8373.3	8471.9	8632.2	8917.8	9269.2	9501.4	9478.8	8919.9	7863.7	7518.5
20°	8523.3	8617.8	8743.2	8983.6	9392.5	9813.7	9982.2	9593.9	8469.9	8108.2
22.5°	9353.4	9337.0	9349.3	9388.4	9632.9	10050.0	10397.3	10206.2	9069.9	8700.0
25°	10668.5	10594.5	10469.2	10257.6	10195.9	10397.3	10758.9	10748.7	9702.8	9306.2
27.5°	12176.7	12164.4	11870.6	11361.0	11073.3	10995.2	11167.8	11276.7	10329.5	9906.2
30°	13621.3	13654.1	13257.6	12690.4	12162.4	11856.2	11700.0	11778.1	10966.5	10553.5
32.5°	14878.8	14913.7	14482.2	13818.5	13165.1	12795.2	12466.5	12273.3	11661.0	11211.0
35°	15941.1	15976.1	15480.9	14747.3	14050.7	13715.8	13343.9	12815.8	12359.6	11940.4
37.5°	16890.5	16880.2	16216.5	15476.8	14792.5	14527.4	14332.2	13483.6	13078.8	12674.0
40°	17451.4	17494.6	16927.4	16111.7	15448.0	15254.8	15242.5	14311.7	13908.9	13516.5
42.5°	17615.8	17691.8	17280.9	16611.0	16008.9	15799.4	16122.0	15207.6	14874.7	14492.5
45°	17319.9	17393.9	17206.9	16742.5	16391.1	16255.5	16878.1	16136.3	15906.2	15528.1
47.5°	16456.9	16549.4	16594.6	16495.9	16491.8	16629.5	17556.2	17114.4	17130.9	16744.6
50°	14786.3	14942.5	15357.6	15706.9	16247.3	16925.4	18215.8	18174.7	18511.7	18178.8
52.5°	11749.3	11971.3	13401.4	14356.9	15571.3	16869.9	18941.1	19876.1	20934.3	20447.3
55°	9441.8	9441.8	10604.8	12392.5	14252.1	16504.2	19257.6	20981.6	22584.3	22469.2
57.5°	7697.3	7789.7	8531.5	10111.7	12343.2	15632.9	19452.8	21676.1	23913.8	23829.5
60°	4750.7	4950.0	6351.4	7911.0	10171.3	14081.5	19329.5	22378.8	25526.8	25594.6
62.5°	2675.3	2749.3	3374.0	5691.8	7908.9	11995.9	18386.3	22771.3	27589.8	27877.5
65°	1847.3	1884.3	2124.7	3542.5	5482.2	9550.7	16543.2	22526.8	29656.9	30238.4
67.5°	1341.8	1360.3	1510.3	2163.7	3252.7	6924.7	13654.1	21293.9	30752.1	31724.1
70°	1031.5	1043.8	1152.7	1421.9	1921.2	4274.0	9916.5	18842.5	29959.0	31119.9
72.5°	838.4	850.7	934.9	1052.1	1274.0	2527.4	6010.3	15302.1	26457.6	27711.0
75°	706.9	723.3	799.3	875.3	998.6	1623.3	2819.2	10656.2	19896.6	20718.5
77.5°	392.5	361.6	649.3	725.3	842.5	1027.4	1319.2	6271.2	11143.2	11371.3
80°	244.5	252.7	515.8	583.6	647.3	517.8	604.1	2414.4	3863.0	3669.9
82.5°	14.4	32.9	396.6	421.2	443.8	221.9	228.1	819.9	930.8	854.8
85°	0.0	0.0	180.8	145.9	154.1	63.7	65.8	191.1	125.3	135.6
87.5°	0.0	0.0	0.0	4.1	0.0	6.2	12.3	16.4	6.2	8.2
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°
3815.8	0°	3815.8	3815.8	3815.8	3815.8	3815.8	3815.8	3815.8	3815.8	3815.8	3815.8
4011.0	2.5°	3867.1	3723.3	3431.5	3145.9	2913.7	2698.0	2543.8	2398.0	2324.0	2319.9
4269.9	5°	3984.3	3682.2	3098.6	2582.9	2167.8	1834.9	1619.2	1465.1	1387.0	1360.3
4588.4	7.5°	4148.6	3694.5	2806.9	2089.7	1600.7	1315.1	1191.8	1142.5	1126.0	1107.5
4948.0	10°	4356.2	3723.3	2545.9	1682.9	1261.6	1117.8	1068.5	1047.9	1035.6	1023.3
5352.8	12.5°	4588.4	3750.0	2287.0	1397.3	1109.6	1035.6	1000.7	976.0	959.6	945.2
5767.8	15°	4814.4	3766.4	2017.8	1197.9	1031.5	971.9	934.9	908.2	885.6	869.2
6174.7	17.5°	5038.4	3789.1	1765.1	1078.8	967.8	908.2	871.2	838.4	819.9	801.4
6602.1	20°	5287.0	3784.9	1526.7	994.5	904.1	844.5	805.5	774.7	756.2	735.6
7054.1	22.5°	5517.1	3764.4	1317.1	922.6	838.4	780.8	737.7	706.9	688.4	671.9
7516.5	25°	5782.2	3748.0	1142.5	856.9	776.7	719.2	671.9	643.2	622.6	608.2
7980.8	27.5°	6037.0	3723.3	1015.1	797.3	717.1	661.6	616.4	583.6	565.1	554.8
8459.6	30°	6287.7	3717.1	967.8	739.7	663.7	608.2	563.0	532.2	517.8	513.7
8985.6	32.5°	6589.7	3733.6	988.4	719.2	614.4	558.9	515.8	493.2	478.8	478.8
9571.3	35°	6912.3	3729.5	1019.2	737.7	581.5	509.6	476.7	462.3	447.9	447.9
10220.6	37.5°	7317.1	3735.6	1043.8	768.5	569.2	468.5	450.0	431.5	423.3	423.3
10931.5	40°	7921.3	3939.1	1031.5	795.2	565.1	439.7	402.7	396.6	390.4	390.4
11735.0	42.5°	8661.0	4380.8	1047.9	797.3	563.0	419.2	369.9	382.2	367.8	365.8
12641.1	45°	9470.6	4863.7	1152.7	754.1	561.0	408.9	353.4	367.8	345.2	345.2
13691.1	47.5°	10274.0	5342.5	1259.6	692.5	554.8	406.9	339.0	330.8	324.7	326.7
15059.6	50°	11381.5	5732.9	1300.7	608.2	540.4	402.7	312.3	314.4	310.3	314.4
16989.1	52.5°	12587.7	5815.1	1251.4	513.7	499.3	390.4	293.8	302.1	300.0	304.1
18347.3	55°	13339.8	5726.7	1033.6	427.4	435.6	341.1	275.3	291.8	291.8	291.8
19674.7	57.5°	14116.5	5350.7	733.6	347.3	361.6	279.5	258.9	281.5	279.5	277.4
21273.3	60°	14675.4	4742.5	482.9	285.6	287.7	230.1	240.4	265.1	263.0	252.7
22921.3	62.5°	15092.5	4070.6	310.3	242.5	219.9	207.5	219.9	240.4	232.2	209.6
24318.6	65°	15045.2	3139.7	238.4	207.5	180.8	180.8	191.1	209.6	184.9	147.9
24585.7	67.5°	14167.8	2124.7	197.3	174.7	152.1	150.0	158.2	174.7	158.2	125.3
23217.2	70°	12600.0	1389.0	158.2	135.6	121.2	111.0	127.4	150.0	133.6	100.7
19765.1	72.5°	10226.7	846.6	119.2	98.6	88.4	71.9	100.7	123.3	106.8	74.0
13744.6	75°	6616.5	431.5	82.2	63.7	47.3	43.2	74.0	92.5	74.0	45.2
6098.6	77.5°	2531.5	180.8	45.2	28.8	24.7	20.5	41.1	55.5	30.8	10.3
1181.5	80°	487.0	76.0	22.6	14.4	12.3	8.2	6.2	4.1	0.0	0.0
209.6	82.5°	84.2	24.7	8.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
41.1	85°	28.8	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.4	87.5°	10.3	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

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<u>180°</u>
3815.8
2315.8
1356.2
1103.4
1019.2
941.1
867.1
799.3
733.6
669.9
606.2
554.8
511.6
478.8
447.9
423.3
390.4
363.7
345.2
326.7
314.4
304.1
291.8
277.4
252.7
205.5
143.8
121.2
96.6
69.9
39.0
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