

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: P956416

Luminaire Tested: **GALN-SB9A-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9A-827-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27153 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

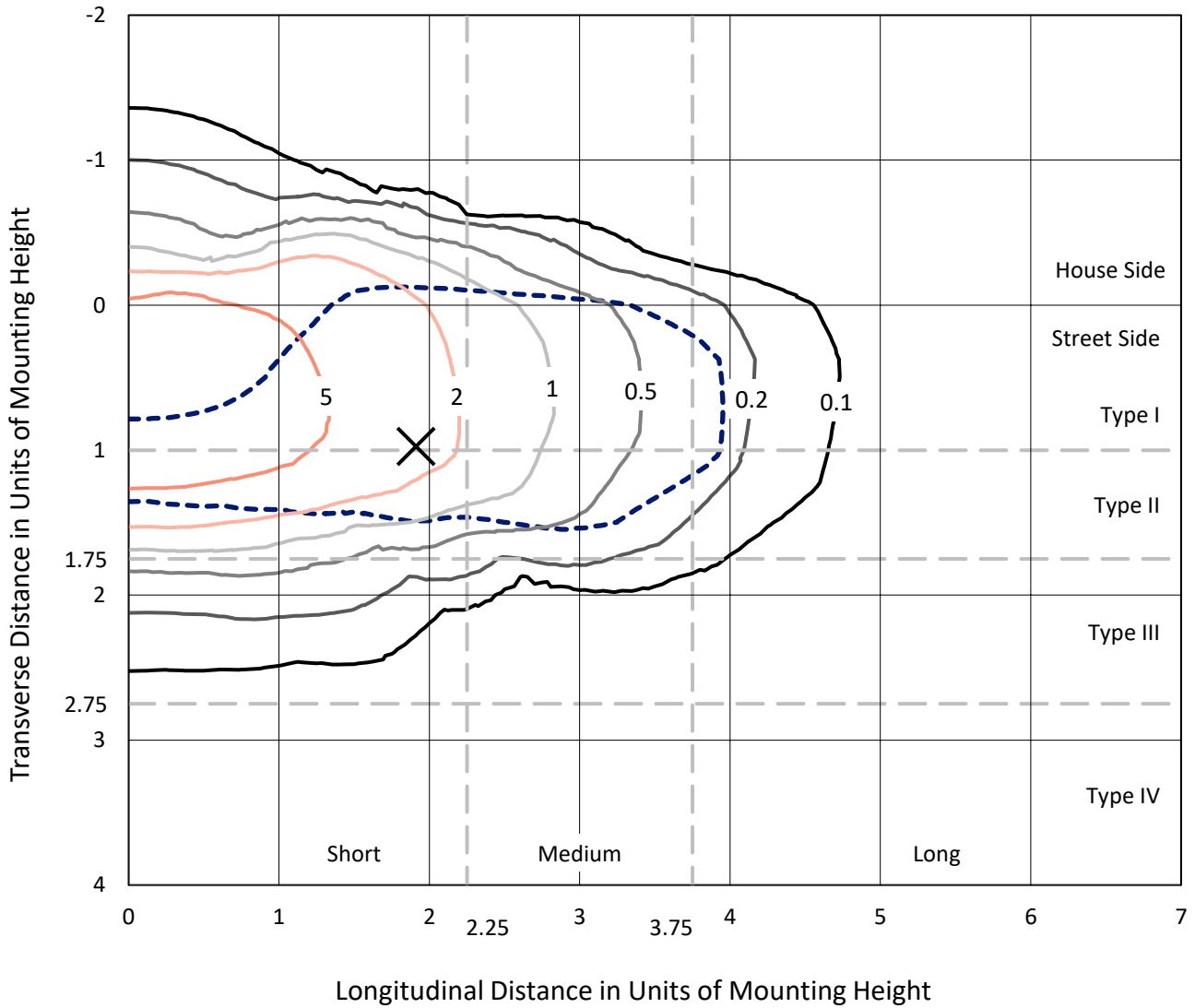
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

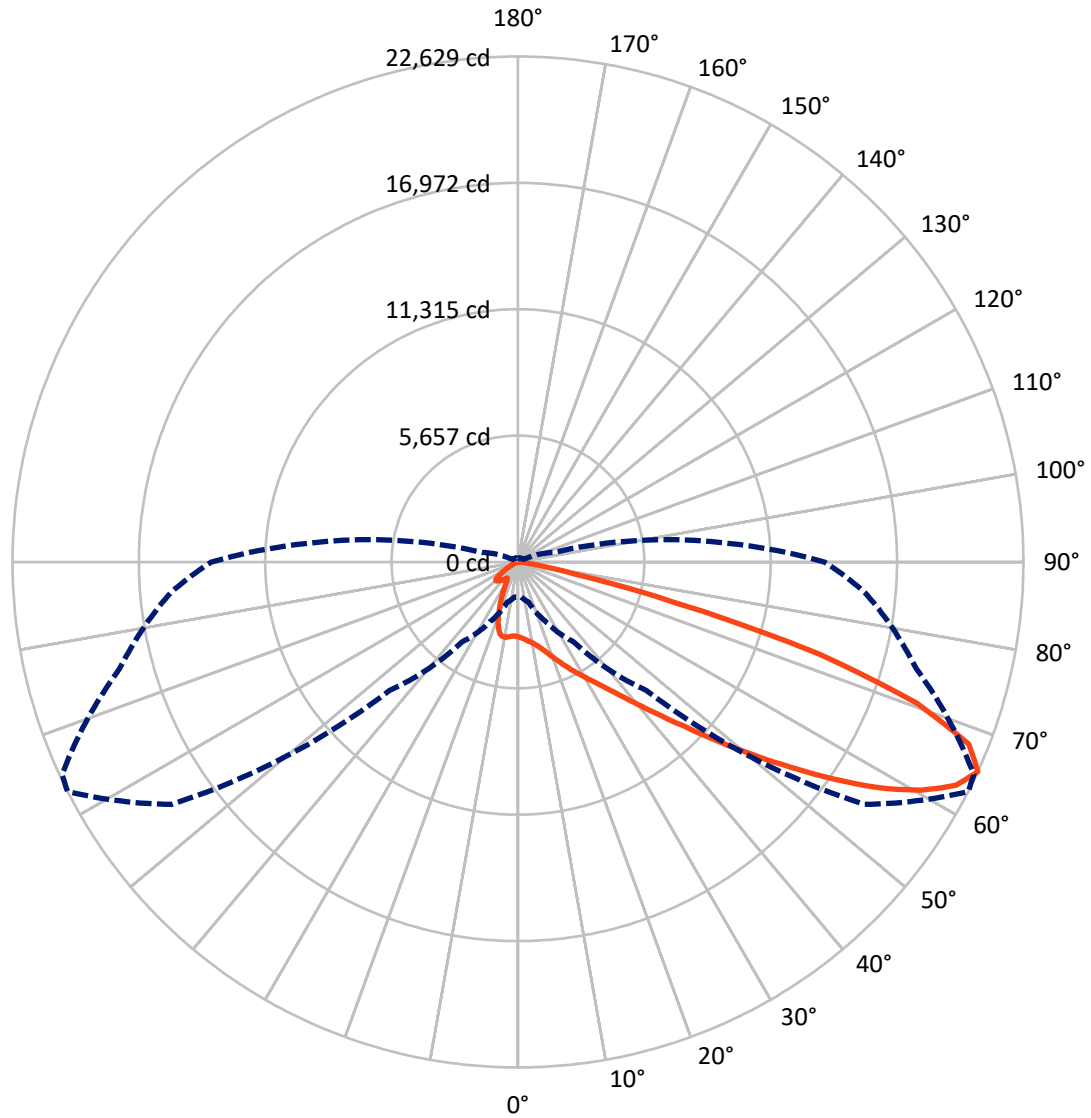
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3991.3	0.0	3991.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	23161.7	0.0	23161.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	27153.0	0.0	27153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.7	1.2
10°-20°	876.1	3.2
20°-30°	1525.5	5.6
30°-40°	2749.5	10.1
40°-50°	5453.2	20.1
50°-60°	7428.1	27.4
60°-70°	5929.1	21.8
70°-80°	2683.0	9.9
80°-90°	192.9	0.7
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°	27153.0	100.0
0°-180°	27153.0	100.0

Coefficient of Utilization



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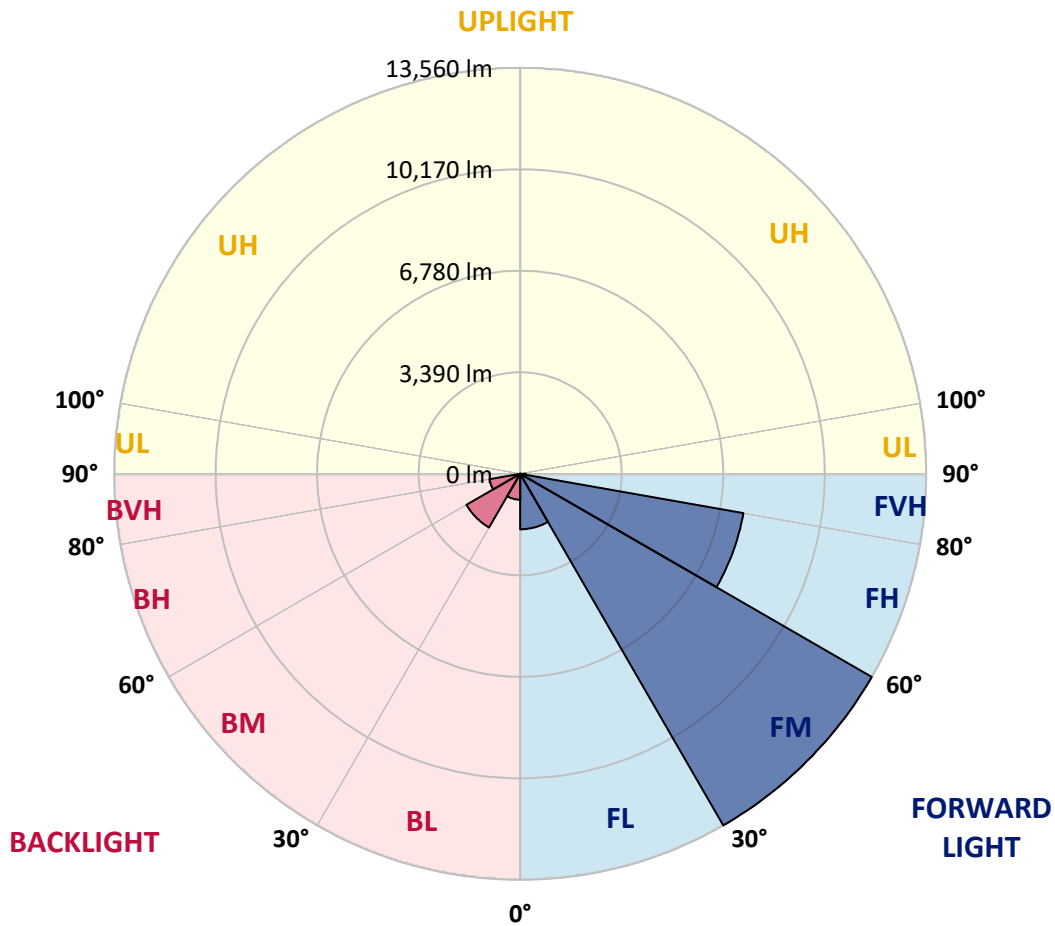
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1853.5	6.8			
FM (30°-60°)	13559.5	49.9			
FH (60°-80°)	7570.1	27.9			G4/12000
FVH (80°-90°)	178.5	0.7			G2/225
BL (0°-30°)	863.8	3.2	B2/1000		
BM (30°-60°)	2071.2	7.6	B2/2500		
BH (60°-80°)	1042.0	3.8	B3/2500		G3/2500
BVH (80°-90°)	14.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	3351.2	3351.2	3351.2	3351.2	3351.2	3351.2	3351.2	3351.2	3351.2	3351.2
2.5°	3429.6	3420.3	3433.4	3427.8	3424.0	3416.6	3412.8	3409.1	3401.6	3396.0
5°	3439.0	3433.4	3446.5	3457.7	3468.9	3480.1	3485.7	3493.2	3485.7	3470.7
7.5°	3360.5	3356.8	3384.8	3418.4	3468.9	3511.8	3558.5	3584.7	3586.6	3581.0
10°	3354.9	3345.6	3373.6	3414.7	3480.1	3556.7	3638.9	3694.9	3702.4	3726.7
12.5°	3442.7	3433.4	3472.6	3517.4	3584.7	3665.0	3765.9	3844.3	3855.6	3889.2
15°	3590.3	3577.2	3622.1	3680.0	3765.9	3857.4	3963.9	4034.9	4044.2	4085.3
17.5°	3762.2	3749.1	3801.4	3863.0	3956.4	4081.6	4204.9	4283.3	4294.5	4320.7
20°	3982.6	3965.8	4006.9	4062.9	4161.9	4311.3	4458.9	4571.0	4569.1	4569.1
22.5°	4238.5	4212.3	4247.8	4292.7	4386.1	4567.3	4763.4	4896.0	4896.0	4843.7
25°	4513.1	4486.9	4526.2	4567.3	4649.5	4854.9	5084.7	5249.1	5256.6	5166.9
27.5°	4856.8	4823.2	4853.1	4901.6	4950.2	5159.4	5432.1	5622.7	5626.4	5488.2
30°	5518.1	5422.8	5329.4	5277.1	5299.5	5506.9	5798.3	6009.4	6028.0	5837.5
32.5°	6728.5	6709.9	6381.1	5951.5	5727.3	5880.5	6207.4	6461.4	6472.6	6227.9
35°	8609.6	8587.2	8058.6	7240.4	6510.0	6381.1	6704.3	7005.0	6997.5	6721.1
37.5°	10855.0	10834.4	10137.6	9043.0	7860.5	7137.6	7345.0	7660.7	7707.4	7345.0
40°	12773.4	12696.8	12256.0	11200.5	9653.8	8392.9	8256.6	8465.8	8514.3	8084.7
42.5°	14226.7	14161.3	13937.2	13277.7	11824.4	10249.7	9330.7	9411.0	9465.2	8949.6
45°	14979.5	14964.6	15054.2	14992.6	14036.2	12528.7	10866.2	10531.8	10552.3	9907.9
47.5°	15086.0	15078.5	15487.6	16066.7	15937.8	15099.0	12836.9	11929.1	11856.2	10989.4
50°	14458.3	14443.4	15227.9	16313.3	17208.0	17258.5	15074.8	13503.8	13343.1	12108.4
52.5°	12454.0	12450.2	13739.1	15545.5	17654.5	19148.9	17286.5	15233.5	14964.6	13292.7
55°	9582.8	9652.0	11129.5	13264.7	16840.0	20058.6	19272.2	17153.9	16741.0	14484.5
57.5°	6788.3	6889.2	8350.0	10251.6	14314.5	19520.6	20615.3	19077.9	18633.3	15672.5
60°	3646.3	3736.0	5198.6	7468.3	10649.5	17514.4	21323.2	20747.9	20327.6	16800.8
62.5°	2172.5	2202.4	2807.6	4821.3	7203.0	13380.5	21022.5	22020.0	21674.4	17747.9
65°	1559.8	1565.4	1869.9	2944.0	4373.0	8129.5	18913.5	22629.0	22522.5	18461.5
67.5°	1313.2	1309.5	1436.5	1955.8	2979.5	4072.2	14495.7	21767.8	22219.9	18913.5
70°	1126.4	1132.0	1281.4	1432.8	2239.7	2305.1	7206.7	18952.7	19916.6	19033.1
72.5°	838.7	857.4	995.6	1305.7	1690.5	1585.9	2488.2	14053.0	15795.8	17932.8
75°	592.2	601.5	700.5	1098.4	1260.9	1154.4	1270.2	7264.7	9498.8	13748.5
77.5°	455.8	472.6	530.5	767.7	1242.2	810.7	777.1	2514.3	3863.0	8305.1
80°	246.6	276.5	382.9	554.8	872.4	573.5	384.8	1001.2	1309.5	3883.6
82.5°	127.0	142.0	267.1	399.8	496.9	500.6	190.5	416.6	539.9	1199.3
85°	50.4	61.6	179.3	220.4	255.9	246.6	85.9	168.1	194.3	332.5
87.5°	11.2	18.7	65.4	50.4	48.6	52.3	20.5	39.2	37.4	39.2
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°
3351.2	0°	3351.2	3351.2	3351.2	3351.2	3351.2	3351.2	3351.2	3351.2	3351.2	3351.2
3373.6	2.5°	3371.7	3364.3	3343.7	3321.3	3295.2	3280.2	3270.9	3269.0	3255.9	3246.6
3448.3	5°	3427.8	3420.3	3381.1	3334.4	3283.9	3244.7	3207.4	3173.7	3125.2	3115.8
3556.7	7.5°	3539.9	3519.3	3455.8	3392.3	3297.0	3183.1	3044.8	2886.1	2744.1	2701.1
3700.5	10°	3678.1	3650.1	3569.7	3457.7	3246.6	2936.5	2602.1	2292.0	2045.5	1976.3
3870.5	12.5°	3835.0	3810.7	3704.2	3496.9	3035.5	2473.2	1961.4	1576.6	1337.5	1277.7
4051.7	15°	4021.8	3986.3	3838.7	3437.1	2658.2	1879.2	1346.8	1118.9	1033.0	1021.8
4259.0	17.5°	4219.8	4161.9	3958.3	3222.3	2150.1	1335.6	1040.5	975.1	937.7	926.5
4468.3	20°	4401.0	4326.3	4029.3	2897.3	1606.5	1040.5	932.1	889.2	855.5	842.5
4677.5	22.5°	4582.2	4475.7	4029.3	2454.6	1204.9	922.8	855.5	816.3	777.1	760.3
4901.6	25°	4770.9	4628.9	3958.3	1961.4	969.5	846.2	782.7	739.7	706.1	685.6
5114.6	27.5°	4953.9	4757.8	3795.8	1494.4	863.0	779.0	715.4	674.3	642.6	627.6
5346.2	30°	5127.7	4884.8	3567.9	1133.9	793.9	713.6	653.8	618.3	586.6	571.6
5647.0	32.5°	5363.0	5045.5	3325.0	930.3	734.1	651.9	597.8	564.1	536.1	524.9
6037.4	35°	5689.9	5282.7	3115.8	913.5	683.7	601.5	547.3	515.6	487.5	478.2
6541.7	37.5°	6153.2	5665.6	3005.6	1025.5	642.6	556.7	506.2	472.6	446.5	439.0
7182.5	40°	6724.8	6185.0	3065.4	1137.6	614.6	517.4	468.9	435.2	412.8	403.5
7918.5	42.5°	7402.9	6825.7	3396.0	1223.5	595.9	483.8	433.4	396.0	381.1	377.3
8753.5	45°	8181.8	7529.9	3902.3	1315.1	566.0	452.1	397.9	369.9	358.7	356.8
9661.3	47.5°	9067.3	8303.3	4488.8	1429.0	536.1	422.2	369.9	351.2	341.8	338.1
10608.4	50°	9945.2	9082.2	5092.2	1492.5	511.8	394.1	347.4	332.5	325.0	323.2
11609.6	52.5°	10864.3	9883.6	5579.7	1432.8	491.3	371.7	328.8	317.6	310.1	308.2
12532.4	55°	11740.4	10531.8	5663.8	1216.1	450.2	349.3	308.2	302.6	293.3	293.3
13468.3	57.5°	12495.1	10856.8	5069.8	892.9	409.1	315.7	287.7	282.1	274.6	272.7
14312.6	60°	13188.1	10763.4	3913.5	601.5	364.3	282.1	261.5	257.8	250.3	241.0
15046.7	62.5°	13578.5	10352.5	2676.8	392.3	319.4	246.6	231.6	229.8	213.0	194.3
15590.3	65°	13726.1	9508.1	1670.0	285.8	267.1	211.1	199.9	196.1	171.9	151.3
15898.6	67.5°	13597.2	8118.3	842.5	226.0	211.1	175.6	164.4	164.4	147.6	128.9
15879.9	70°	13081.6	6085.9	354.9	181.2	162.5	134.5	134.5	142.0	125.2	104.6
15056.1	72.5°	11962.7	4094.7	188.7	138.2	121.4	95.3	110.2	115.8	99.0	78.5
12323.2	75°	9510.0	2497.5	130.8	102.7	76.6	67.2	84.1	87.8	67.2	52.3
8449.0	77.5°	6504.4	1434.6	87.8	65.4	48.6	39.2	57.9	54.2	35.5	24.3
3257.8	80°	2856.2	597.8	50.4	29.9	18.7	14.9	20.5	14.9	11.2	7.5
446.5	82.5°	334.4	140.1	18.7	11.2	7.5	3.7	1.9	0.0	0.0	0.0
136.4	85°	69.1	16.8	9.3	3.7	1.9	0.0	0.0	0.0	0.0	0.0
24.3	87.5°	13.1	3.7	1.9	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>
3351.2
3255.9
3112.1
2680.6
1950.2
1260.9
1010.6
920.9
835.0
750.9
678.1
627.6
573.5
524.9
478.2
437.1
401.6
377.3
354.9
338.1
323.2
308.2
291.4
270.9
239.1
190.5
149.4
127.0
102.7
78.5
50.4
26.2
7.5
0.0
0.0
0.0
0.0

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