

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: P955072

Luminaire Tested: **GALN-SB8A-850-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955072  
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-SB8A-850-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

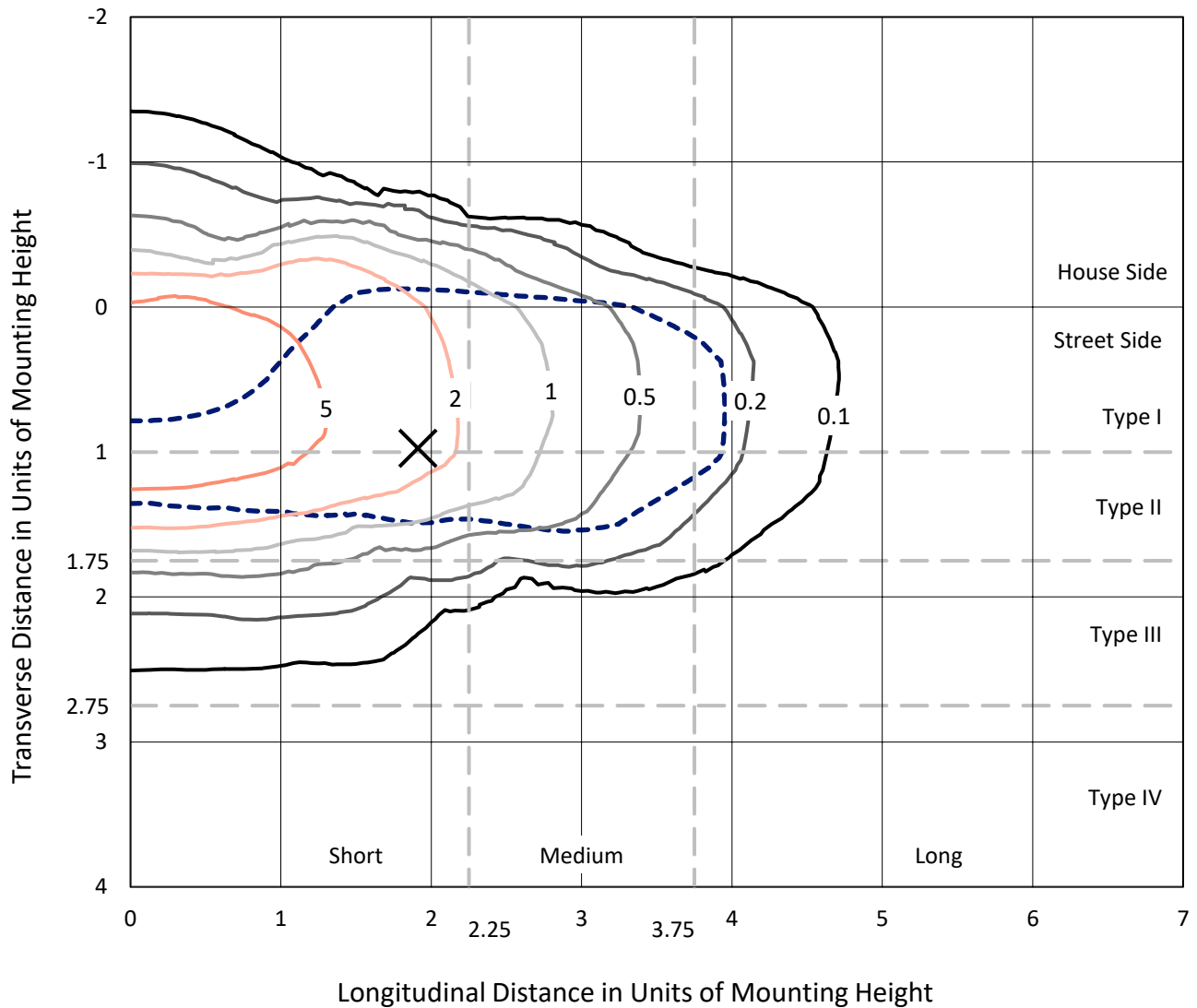
Lumens per Lamp: N/A  
Luminaire Lumens: 26516 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

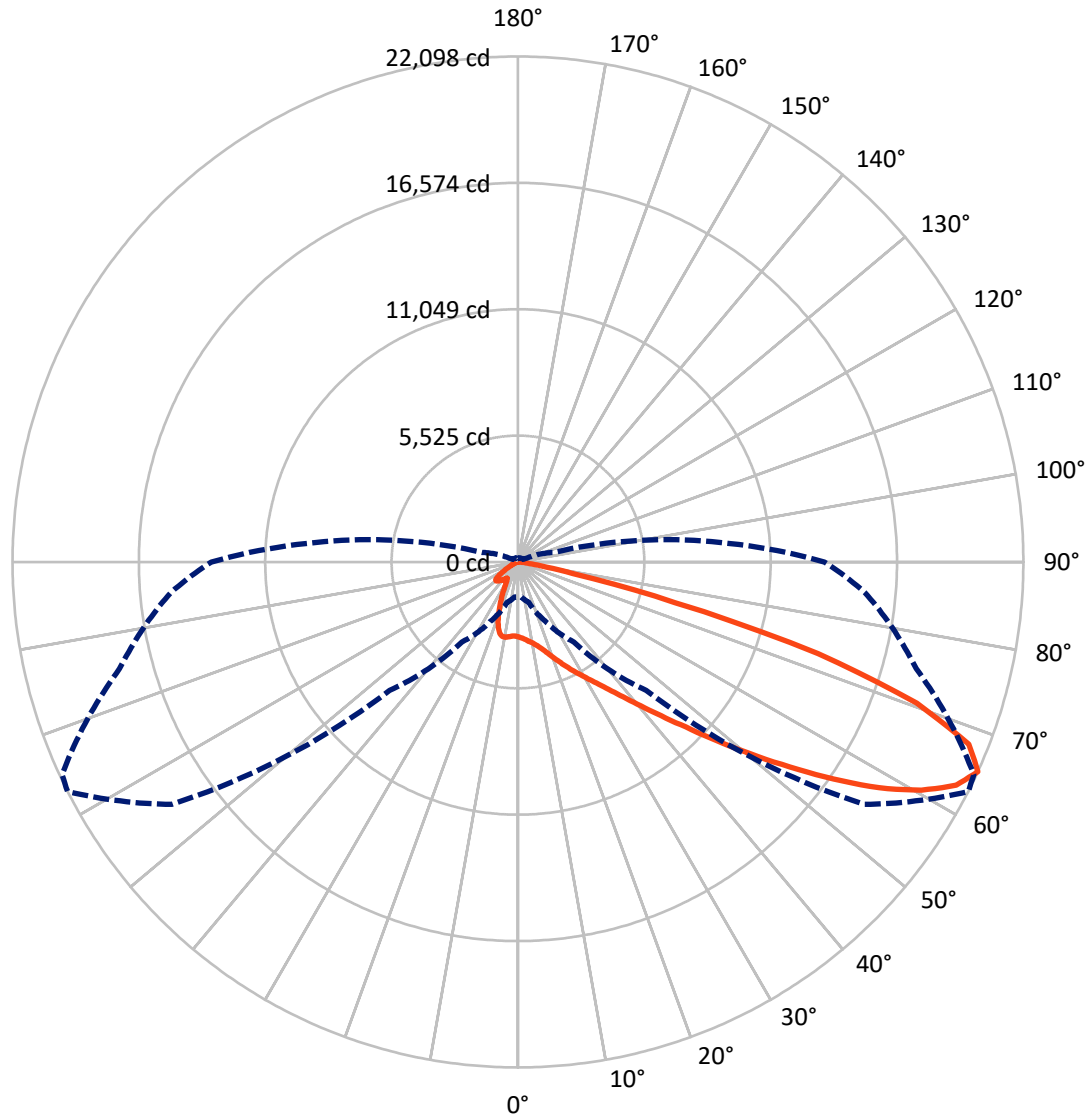
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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
<b>House Side</b>	Lumens	3897.6	0.0	3897.6
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	22618.4	0.0	22618.4
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	26516.0	0.0	26516.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.3	1.2
10°-20°	855.5	3.2
20°-30°	1489.7	5.6
30°-40°	2685.0	10.1
40°-50°	5325.2	20.1
50°-60°	7253.8	27.4
60°-70°	5790.0	21.8
70°-80°	2620.1	9.9
80°-90°	188.3	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°	26516.0	100.0
0°-180°	26516.0	100.0

**Coefficient of Utilization**



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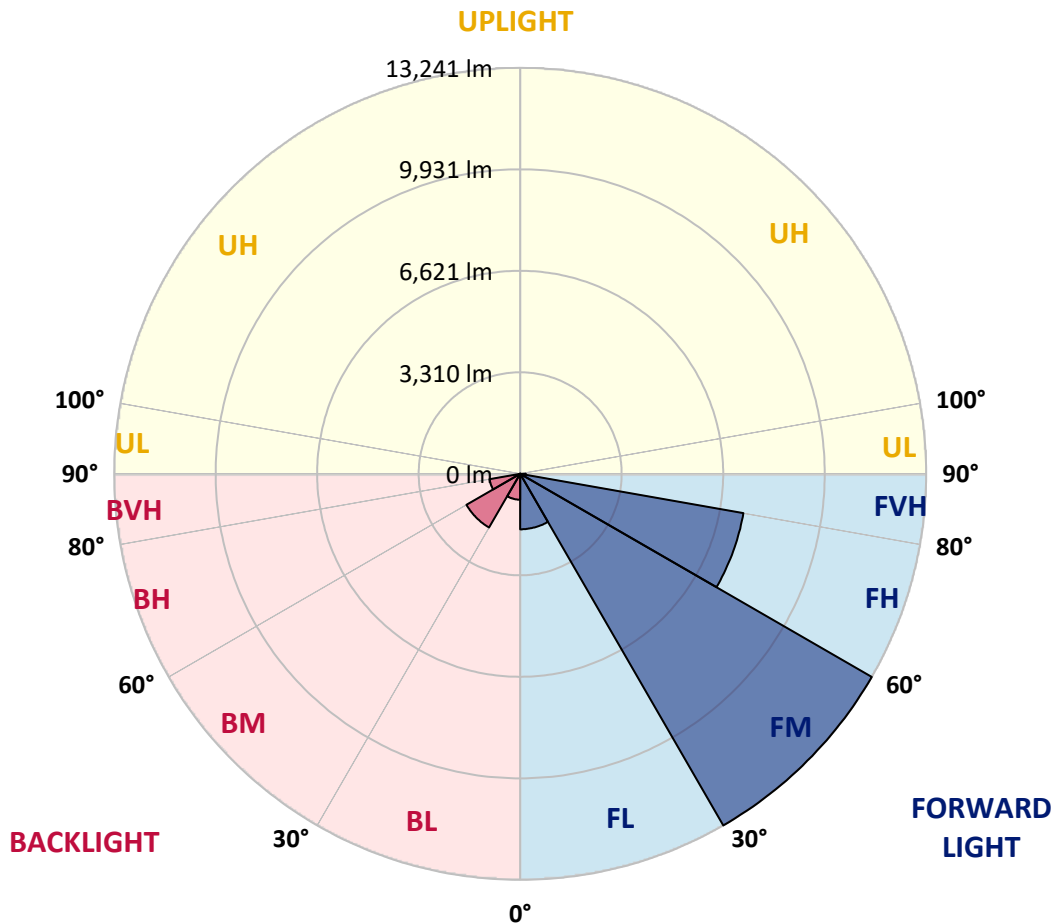
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1810.0	6.8			
FM (30°-60°)	13241.4	49.9			
FH (60°-80°)	7392.5	27.9			G3/7500
FVH (80°-90°)	174.4	0.7			G2/225
BL (0°-30°)	843.5	3.2	B2/1000		
BM (30°-60°)	2022.6	7.6	B2/2500		
BH (60°-80°)	1017.5	3.8	B3/2500		G3/2500
BVH (80°-90°)	14.0	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-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	3272.6	3272.6	3272.6	3272.6	3272.6	3272.6	3272.6	3272.6	3272.6	3272.6
2.5°	3349.2	3340.1	3352.8	3347.4	3343.7	3336.4	3332.8	3329.1	3321.8	3316.4
5°	3358.3	3352.8	3365.6	3376.6	3387.5	3398.4	3403.9	3411.2	3403.9	3389.3
7.5°	3281.7	3278.0	3305.4	3338.2	3387.5	3429.5	3475.1	3500.6	3502.4	3496.9
10°	3276.2	3267.1	3294.5	3334.6	3398.4	3473.2	3553.5	3608.2	3615.5	3639.2
12.5°	3362.0	3352.8	3391.1	3434.9	3500.6	3579.0	3677.5	3754.2	3765.1	3797.9
15°	3506.1	3493.3	3537.1	3593.6	3677.5	3766.9	3870.9	3940.2	3949.3	3989.5
17.5°	3673.9	3661.1	3712.2	3772.4	3863.6	3985.8	4106.2	4182.8	4193.8	4219.3
20°	3889.1	3872.7	3912.9	3967.6	4064.3	4210.2	4354.3	4463.8	4461.9	4461.9
22.5°	4139.1	4113.5	4148.2	4192.0	4283.2	4460.1	4651.7	4781.2	4781.2	4730.1
25°	4407.2	4381.7	4420.0	4460.1	4540.4	4741.0	4965.4	5125.9	5133.2	5045.7
27.5°	4742.9	4710.0	4739.2	4786.6	4834.1	5038.4	5304.7	5490.8	5494.4	5359.4
30°	5388.6	5295.6	5204.4	5153.3	5175.2	5377.7	5662.2	5868.4	5886.6	5700.6
32.5°	6570.7	6552.4	6231.4	5811.8	5592.9	5742.5	6061.7	6309.8	6320.8	6081.8
35°	8407.6	8385.7	7869.5	7070.5	6357.3	6231.4	6547.0	6840.7	6833.4	6563.4
37.5°	10600.3	10580.2	9899.8	8830.8	7676.1	6970.2	7172.7	7481.0	7526.6	7172.7
40°	12473.7	12398.9	11968.4	10937.8	9427.4	8196.0	8062.9	8267.2	8314.6	7895.0
42.5°	13892.9	13829.1	13610.2	12966.3	11547.0	10009.3	9111.8	9190.2	9243.1	8739.6
45°	14628.1	14613.5	14701.1	14640.9	13706.9	12234.8	10611.2	10284.7	10304.8	9675.4
47.5°	14732.1	14724.8	15124.3	15689.8	15563.9	14744.8	12535.8	11649.2	11578.1	10731.6
50°	14119.1	14104.5	14870.7	15930.5	16804.3	16853.6	14721.1	13187.0	13030.1	11824.3
52.5°	12161.8	12158.1	13416.8	15180.8	17240.3	18699.6	16880.9	14876.2	14613.5	12980.9
55°	9358.0	9425.5	10868.5	12953.5	16445.0	19588.0	18820.0	16751.4	16348.3	14144.7
57.5°	6629.1	6727.6	8154.1	10011.1	13978.7	19062.7	20131.6	18630.3	18196.2	15304.9
60°	3560.8	3648.4	5076.7	7293.1	10399.6	17103.5	20823.0	20261.1	19850.7	16406.7
62.5°	2121.5	2150.7	2741.7	4708.2	7034.0	13066.6	20529.3	21503.4	21165.9	17331.5
65°	1523.2	1528.7	1826.0	2874.9	4270.4	7938.8	18469.8	22098.1	21994.1	18028.4
67.5°	1282.4	1278.7	1402.8	1909.9	2909.6	3976.7	14155.6	21257.1	21698.6	18469.8
70°	1100.0	1105.5	1251.4	1399.1	2187.2	2251.0	7037.7	18508.1	19449.4	18586.6
72.5°	819.1	837.3	972.3	1275.1	1650.9	1548.7	2429.8	13723.3	15425.2	17512.1
75°	578.3	587.4	684.1	1072.6	1231.3	1127.3	1240.4	7094.2	9275.9	13426.0
77.5°	445.1	461.5	518.1	749.7	1213.1	791.7	758.9	2455.3	3772.4	8110.3
80°	240.8	270.0	374.0	541.8	851.9	560.0	375.8	977.8	1278.7	3792.5
82.5°	124.0	138.6	260.9	390.4	485.2	488.9	186.1	406.8	527.2	1171.1
85°	49.3	60.2	175.1	215.3	249.9	240.8	83.9	164.2	189.7	324.7
87.5°	10.9	18.2	63.8	49.3	47.4	51.1	20.1	38.3	36.5	38.3
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°
3272.6	0°	3272.6	3272.6	3272.6	3272.6	3272.6	3272.6	3272.6	3272.6	3272.6	3272.6
3294.5	2.5°	3292.6	3285.3	3265.3	3243.4	3217.9	3203.3	3194.1	3192.3	3179.5	3170.4
3367.4	5°	3347.4	3340.1	3301.8	3256.2	3206.9	3168.6	3132.1	3099.3	3051.8	3042.7
3473.2	7.5°	3456.8	3436.8	3374.7	3312.7	3219.7	3108.4	2973.4	2818.4	2679.7	2637.8
3613.7	10°	3591.8	3564.4	3486.0	3376.6	3170.4	2867.6	2541.1	2238.3	1997.5	1930.0
3779.7	12.5°	3745.0	3721.3	3617.3	3414.9	2964.3	2415.2	1915.4	1539.6	1306.1	1247.7
3956.6	15°	3927.5	3892.8	3748.7	3356.5	2595.8	1835.1	1315.2	1092.7	1008.8	997.8
4159.1	17.5°	4120.8	4064.3	3865.4	3146.7	2099.6	1304.3	1016.1	952.2	915.7	904.8
4363.4	20°	4297.8	4224.8	3934.8	2829.3	1568.8	1016.1	910.3	868.3	835.5	822.7
4567.7	22.5°	4474.7	4370.7	3934.8	2397.0	1176.6	901.1	835.5	797.2	758.9	742.4
4786.6	25°	4659.0	4520.3	3865.4	1915.4	946.7	826.4	764.3	722.4	689.5	669.5
4994.6	27.5°	4837.7	4646.2	3706.7	1459.3	842.8	760.7	698.7	658.5	627.5	612.9
5220.8	30°	5007.4	4770.2	3484.2	1107.3	775.3	696.8	638.5	603.8	572.8	558.2
5514.5	32.5°	5237.2	4927.1	3247.0	908.4	716.9	636.6	583.7	550.9	523.5	512.6
5895.7	35°	5556.4	5158.8	3042.7	892.0	667.6	587.4	534.5	503.5	476.1	467.0
6388.3	37.5°	6008.8	5532.7	2935.1	1001.5	627.5	543.6	494.4	461.5	436.0	428.7
7014.0	40°	6567.0	6039.9	2993.5	1110.9	600.2	505.3	457.9	425.0	403.1	394.0
7732.7	42.5°	7229.2	6665.5	3316.4	1194.8	581.9	472.5	423.2	386.7	372.1	368.5
8548.1	45°	7989.9	7353.3	3810.7	1284.2	552.7	441.5	388.5	361.2	350.2	348.4
9434.6	47.5°	8854.6	8108.5	4383.5	1395.5	523.5	412.3	361.2	342.9	333.8	330.2
10359.5	50°	9711.9	8869.2	4972.7	1457.5	499.8	384.9	339.3	324.7	317.4	315.6
11337.3	52.5°	10609.4	9651.7	5448.8	1399.1	479.8	363.0	321.1	310.1	302.8	301.0
12238.4	55°	11465.0	10284.7	5530.9	1187.5	439.6	341.1	301.0	295.5	286.4	286.4
13152.3	57.5°	12201.9	10602.1	4950.8	872.0	399.5	308.3	280.9	275.5	268.2	266.3
13976.9	60°	12878.7	10510.9	3821.7	587.4	355.7	275.5	255.4	251.7	244.4	235.3
14693.8	62.5°	13260.0	10109.6	2614.0	383.1	311.9	240.8	226.2	224.4	208.0	189.7
15224.6	65°	13404.1	9285.1	1630.8	279.1	260.9	206.1	195.2	191.5	167.8	147.8
15525.6	67.5°	13278.2	7927.9	822.7	220.7	206.1	171.5	160.5	160.5	144.1	125.9
15507.3	70°	12774.7	5943.2	346.6	176.9	158.7	131.3	131.3	138.6	122.2	102.2
14702.9	72.5°	11682.0	3998.6	184.2	135.0	118.6	93.0	107.6	113.1	96.7	76.6
12034.1	75°	9286.9	2438.9	127.7	100.3	74.8	65.7	82.1	85.7	65.7	51.1
8250.8	77.5°	6351.8	1401.0	85.7	63.8	47.4	38.3	56.5	52.9	34.7	23.7
3181.4	80°	2789.2	583.7	49.3	29.2	18.2	14.6	20.1	14.6	10.9	7.3
436.0	82.5°	326.5	136.8	18.2	10.9	7.3	3.6	1.8	0.0	0.0	0.0
133.2	85°	67.5	16.4	9.1	3.6	1.8	0.0	0.0	0.0	0.0	0.0
23.7	87.5°	12.8	3.6	1.8	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>
3272.6
3179.5
3039.1
2617.7
1904.4
1231.3
986.9
899.3
815.4
733.3
662.2
612.9
560.0
512.6
467.0
426.9
392.2
368.5
346.6
330.2
315.6
301.0
284.6
264.5
233.5
186.1
145.9
124.0
100.3
76.6
49.3
25.5
7.3
0.0
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