

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: P950347

Luminaire Tested: **GALN-SB4D-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950347
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-SB4D-827-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 900mA 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: 27103 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

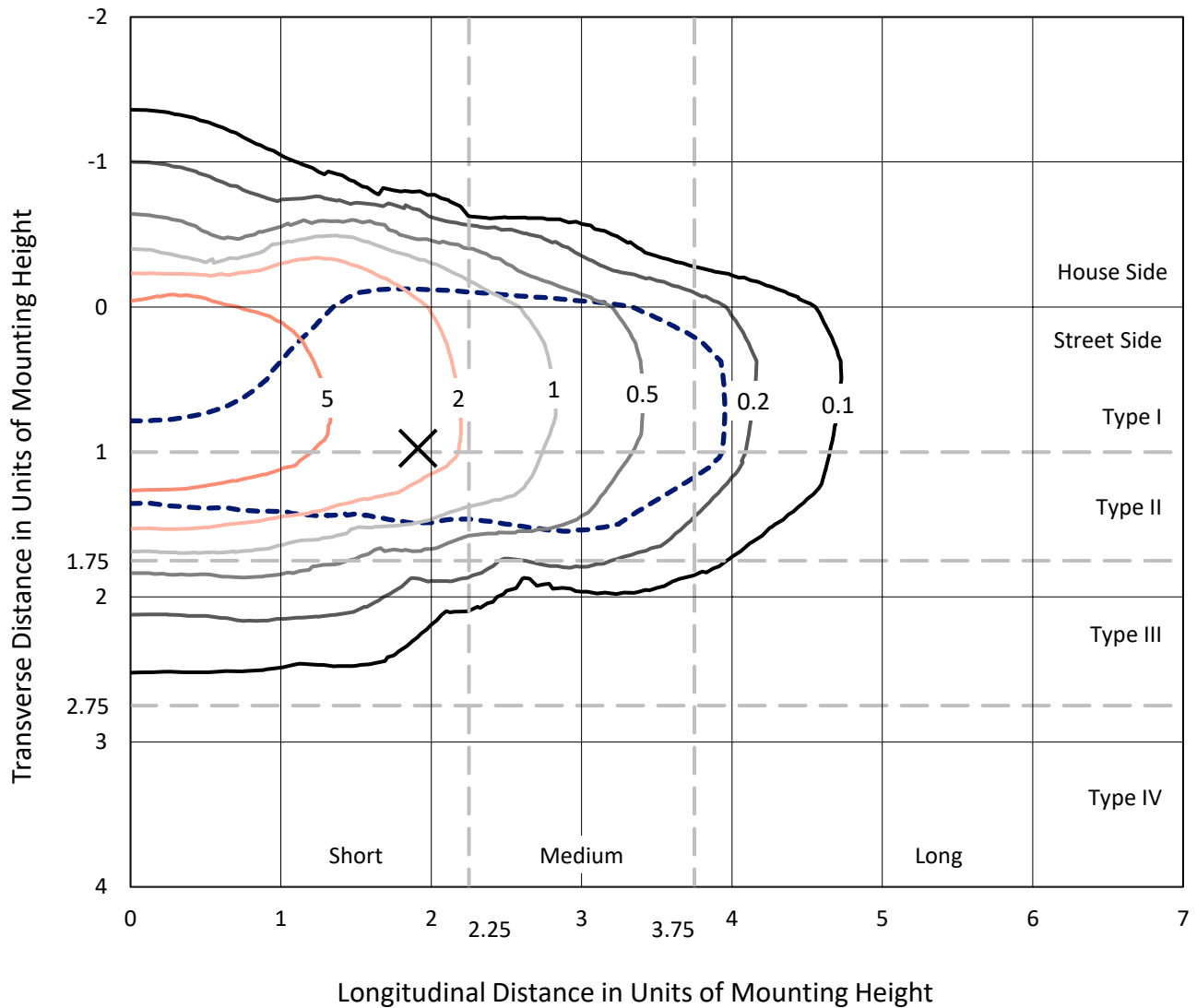
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

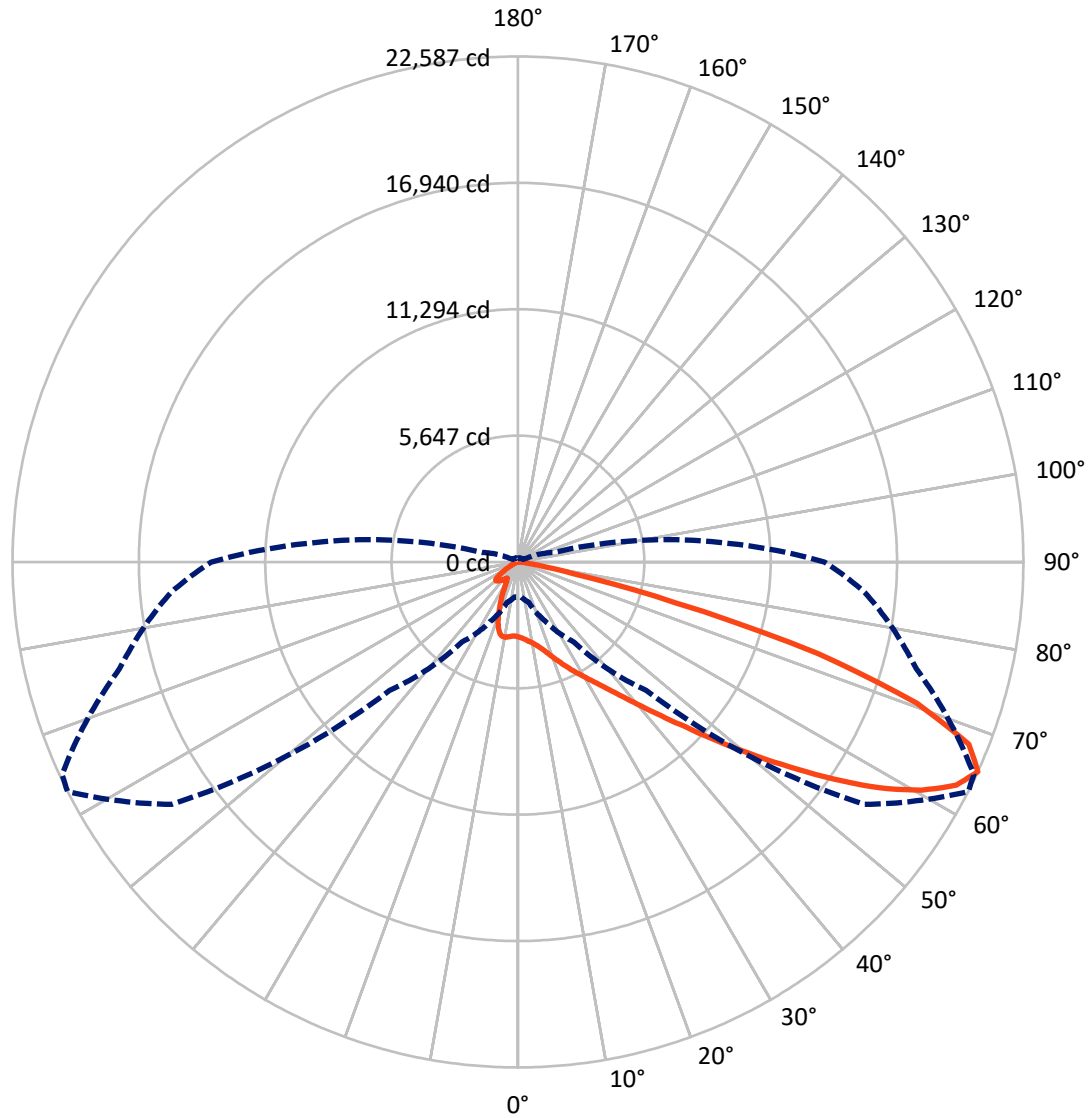
✕ Max cd
 - - - 1/2 Max cd



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	3983.9	0.0	3983.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	23119.1	0.0	23119.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	27103.0	0.0	27103.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.2	1.2
10°-20°	874.5	3.2
20°-30°	1522.7	5.6
30°-40°	2744.4	10.1
40°-50°	5443.1	20.1
50°-60°	7414.4	27.4
60°-70°	5918.1	21.8
70°-80°	2678.1	9.9
80°-90°	192.5	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°	27103.0	100.0
0°-180°	27103.0	100.0

Coefficient of Utilization



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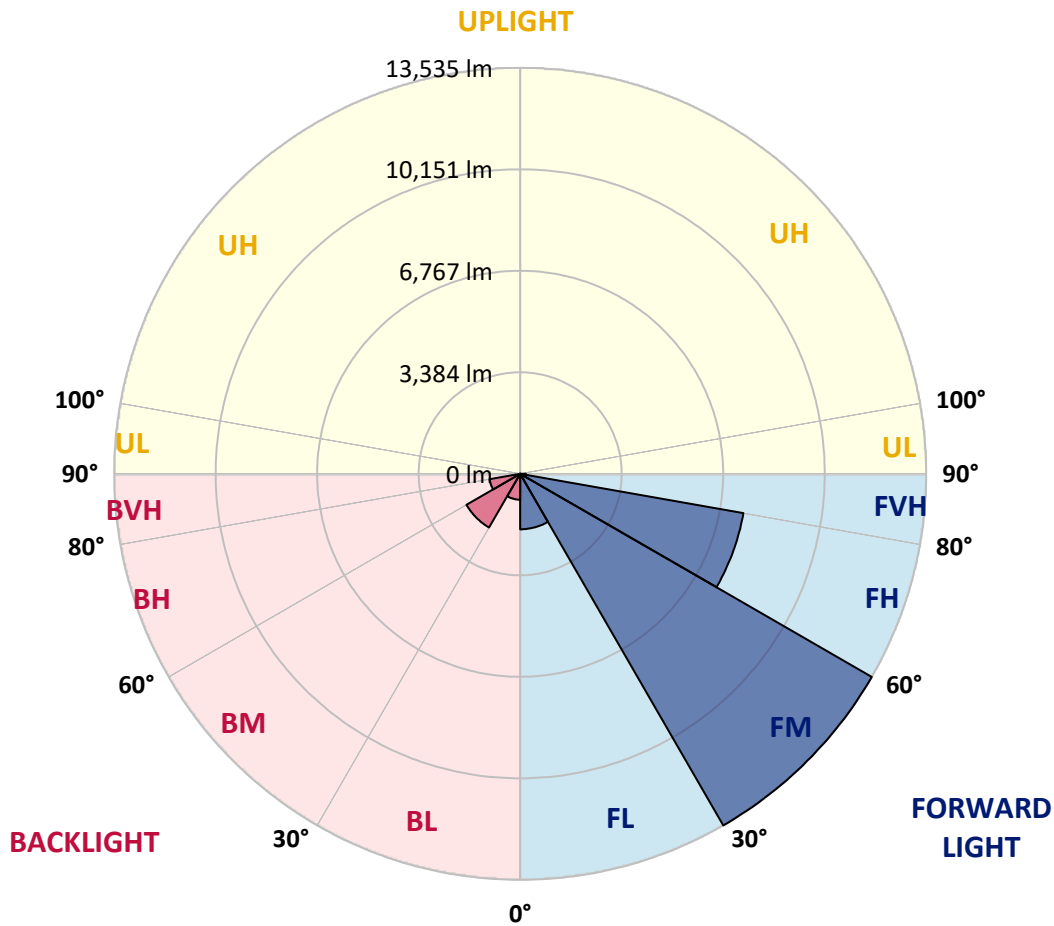
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1850.1	6.8			
FM (30°-60°)	13534.6	49.9			
FH (60°-80°)	7556.2	27.9			G4/12000
FVH (80°-90°)	178.2	0.7			G2/225
BL (0°-30°)	862.2	3.2	B2/1000		
BM (30°-60°)	2067.4	7.6	B2/2500		
BH (60°-80°)	1040.0	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°	3345.0	3345.0	3345.0	3345.0	3345.0	3345.0	3345.0	3345.0	3345.0	3345.0
2.5°	3423.3	3414.0	3427.1	3421.5	3417.7	3410.3	3406.6	3402.8	3395.4	3389.8
5°	3432.7	3427.1	3440.1	3451.3	3462.5	3473.7	3479.3	3486.7	3479.3	3464.4
7.5°	3354.3	3350.6	3378.6	3412.1	3462.5	3505.4	3552.0	3578.1	3580.0	3574.4
10°	3348.8	3339.4	3367.4	3408.4	3473.7	3550.1	3632.2	3688.1	3695.6	3719.8
12.5°	3436.4	3427.1	3466.2	3511.0	3578.1	3658.3	3759.0	3837.3	3848.5	3882.0
15°	3583.7	3570.6	3615.4	3673.2	3759.0	3850.3	3956.6	4027.5	4036.8	4077.8
17.5°	3755.2	3742.2	3794.4	3855.9	3949.1	4074.1	4197.1	4275.4	4286.6	4312.7
20°	3975.2	3958.5	3999.5	4055.4	4154.2	4303.4	4450.7	4562.6	4560.7	4560.7
22.5°	4230.7	4204.6	4240.0	4284.8	4378.0	4558.9	4754.6	4887.0	4887.0	4834.8
25°	4504.8	4478.7	4517.8	4558.9	4640.9	4846.0	5075.3	5239.4	5246.9	5157.4
27.5°	4847.9	4814.3	4844.1	4892.6	4941.1	5149.9	5422.1	5612.3	5616.1	5478.1
30°	5507.9	5412.8	5319.6	5267.4	5289.8	5496.7	5787.6	5998.3	6016.9	5826.8
32.5°	6716.1	6697.5	6369.3	5940.5	5716.7	5869.6	6195.9	6449.5	6460.7	6216.4
35°	8593.8	8571.4	8043.7	7227.0	6498.0	6369.3	6691.9	6992.1	6984.6	6708.7
37.5°	10835.0	10814.5	10119.0	9026.3	7846.1	7124.5	7331.5	7646.6	7693.2	7331.5
40°	12749.9	12673.4	12233.4	11179.9	9636.1	8377.5	8241.4	8450.2	8498.7	8069.8
42.5°	14200.5	14135.2	13911.5	13253.3	11802.7	10230.8	9313.5	9393.7	9447.7	8933.1
45°	14951.9	14937.0	15026.5	14965.0	14010.3	12505.6	10846.2	10512.4	10532.9	9889.6
47.5°	15058.2	15050.7	15459.1	16037.1	15908.4	15071.2	12813.3	11907.1	11834.4	10969.2
50°	14431.7	14416.8	15199.9	16283.2	17176.3	17226.7	15047.0	13478.9	13318.6	12086.1
52.5°	12431.0	12427.3	13713.8	15516.9	17622.0	19113.6	17254.6	15205.5	14937.0	13268.2
55°	9565.2	9634.2	11109.1	13240.2	16809.0	20021.7	19236.7	17122.3	16710.2	14457.8
57.5°	6775.8	6876.5	8334.6	10232.7	14288.1	19484.7	20577.3	19042.8	18599.0	15643.7
60°	3639.6	3729.1	5189.1	7454.5	10629.9	17482.1	21284.0	20709.7	20290.2	16769.9
62.5°	2168.5	2198.3	2802.4	4812.4	7189.7	13355.8	20983.8	21979.4	21634.5	17715.2
65°	1556.9	1562.5	1866.4	2938.5	4364.9	8114.6	18878.7	22587.3	22481.0	18427.5
67.5°	1310.8	1307.1	1433.8	1952.2	2974.0	4064.7	14469.0	21727.7	22179.0	18878.7
70°	1124.3	1129.9	1279.1	1430.1	2235.6	2300.9	7193.5	18917.8	19879.9	18998.0
72.5°	837.2	855.8	993.8	1303.3	1687.4	1583.0	2483.6	14027.1	15766.7	17899.8
75°	591.1	600.4	699.2	1096.4	1258.6	1152.3	1267.9	7251.3	9481.3	13723.2
77.5°	455.0	471.7	529.5	766.3	1239.9	809.2	775.7	2509.7	3855.9	8289.8
80°	246.1	276.0	382.2	553.8	870.7	572.4	384.1	999.4	1307.1	3876.4
82.5°	126.8	141.7	266.6	399.0	496.0	499.7	190.2	415.8	538.9	1197.0
85°	50.3	61.5	179.0	220.0	255.4	246.1	85.8	167.8	193.9	331.9
87.5°	11.2	18.6	65.3	50.3	48.5	52.2	20.5	39.2	37.3	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°
3345.0	0°	3345.0	3345.0	3345.0	3345.0	3345.0	3345.0	3345.0	3345.0	3345.0	3345.0
3367.4	2.5°	3365.5	3358.1	3337.6	3315.2	3289.1	3274.2	3264.8	3263.0	3249.9	3240.6
3442.0	5°	3421.5	3414.0	3374.9	3328.2	3277.9	3238.7	3201.5	3167.9	3119.4	3110.1
3550.1	7.5°	3533.3	3512.8	3449.4	3386.0	3291.0	3177.2	3039.2	2880.7	2739.0	2696.2
3693.7	10°	3671.3	3643.4	3563.2	3451.3	3240.6	2931.1	2597.3	2287.8	2041.7	1972.7
3863.4	12.5°	3827.9	3803.7	3697.4	3490.5	3029.9	2468.7	1957.8	1573.7	1335.0	1275.4
4044.2	15°	4014.4	3979.0	3831.7	3430.8	2653.3	1875.7	1344.3	1116.9	1031.1	1019.9
4251.2	17.5°	4212.0	4154.2	3951.0	3216.4	2146.1	1333.2	1038.6	973.3	936.0	924.8
4460.0	20°	4392.9	4318.3	4021.9	2891.9	1603.5	1038.6	930.4	887.5	854.0	840.9
4668.9	22.5°	4573.8	4467.5	4021.9	2450.0	1202.6	921.1	854.0	814.8	775.7	758.9
4892.6	25°	4762.1	4620.4	3951.0	1957.8	967.7	844.6	781.3	738.4	704.8	684.3
5105.2	27.5°	4944.8	4749.0	3788.8	1491.6	861.4	777.5	714.1	673.1	641.4	626.5
5336.4	30°	5118.2	4875.8	3561.3	1131.8	792.4	712.3	652.6	617.2	585.5	570.6
5636.6	32.5°	5353.2	5036.2	3318.9	928.6	732.8	650.7	596.7	563.1	535.1	523.9
6026.3	35°	5679.5	5273.0	3110.1	911.8	682.4	600.4	546.3	514.6	486.7	477.3
6529.7	37.5°	6141.9	5655.2	3000.1	1023.6	641.4	555.6	505.3	471.7	445.6	438.2
7169.2	40°	6712.4	6173.6	3059.7	1135.5	613.4	516.5	468.0	434.4	412.1	402.7
7903.9	42.5°	7389.3	6813.1	3389.8	1221.3	594.8	482.9	432.6	395.3	380.4	376.6
8737.3	45°	8166.8	7516.0	3895.1	1312.7	565.0	451.2	397.2	369.2	358.0	356.1
9643.5	47.5°	9050.6	8288.0	4480.5	1426.4	535.1	421.4	369.2	350.5	341.2	337.5
10588.8	50°	9926.9	9065.5	5082.8	1489.8	510.9	393.4	346.8	331.9	324.4	322.6
11588.2	52.5°	10844.3	9865.4	5569.4	1430.1	490.4	371.0	328.2	317.0	309.5	307.7
12509.3	55°	11718.8	10512.4	5653.3	1213.8	449.4	348.7	307.7	302.1	292.7	292.7
13443.5	57.5°	12472.0	10836.8	5060.4	891.3	408.3	315.1	287.1	281.5	274.1	272.2
14286.3	60°	13163.8	10743.6	3906.3	600.4	363.6	281.5	261.0	257.3	249.9	240.5
15019.0	62.5°	13553.5	10333.4	2671.9	391.6	318.8	246.1	231.2	229.3	212.6	193.9
15561.6	65°	13700.8	9490.6	1666.9	285.3	266.6	210.7	199.5	195.8	171.5	151.0
15869.3	67.5°	13572.1	8103.4	840.9	225.6	210.7	175.3	164.1	164.1	147.3	128.7
15850.6	70°	13057.5	6074.7	354.3	180.9	162.2	134.2	134.2	141.7	124.9	104.4
15028.4	72.5°	11940.6	4087.1	188.3	138.0	121.2	95.1	110.0	115.6	98.8	78.3
12300.5	75°	9492.5	2492.9	130.5	102.6	76.4	67.1	83.9	87.6	67.1	52.2
8433.4	77.5°	6492.4	1432.0	87.6	65.3	48.5	39.2	57.8	54.1	35.4	24.2
3251.8	80°	2850.9	596.7	50.3	29.8	18.6	14.9	20.5	14.9	11.2	7.5
445.6	82.5°	333.8	139.8	18.6	11.2	7.5	3.7	1.9	0.0	0.0	0.0
136.1	85°	69.0	16.8	9.3	3.7	1.9	0.0	0.0	0.0	0.0	0.0
24.2	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>
3345.0
3249.9
3106.4
2675.6
1946.6
1258.6
1008.7
919.2
833.5
749.6
676.8
626.5
572.4
523.9
477.3
436.3
400.9
376.6
354.3
337.5
322.6
307.7
290.9
270.4
238.7
190.2
149.2
126.8
102.6
78.3
50.3
26.1
7.5
0.0
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