

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: P954108

Luminaire Tested: **GALN-SB7B-950-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-950-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23193 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

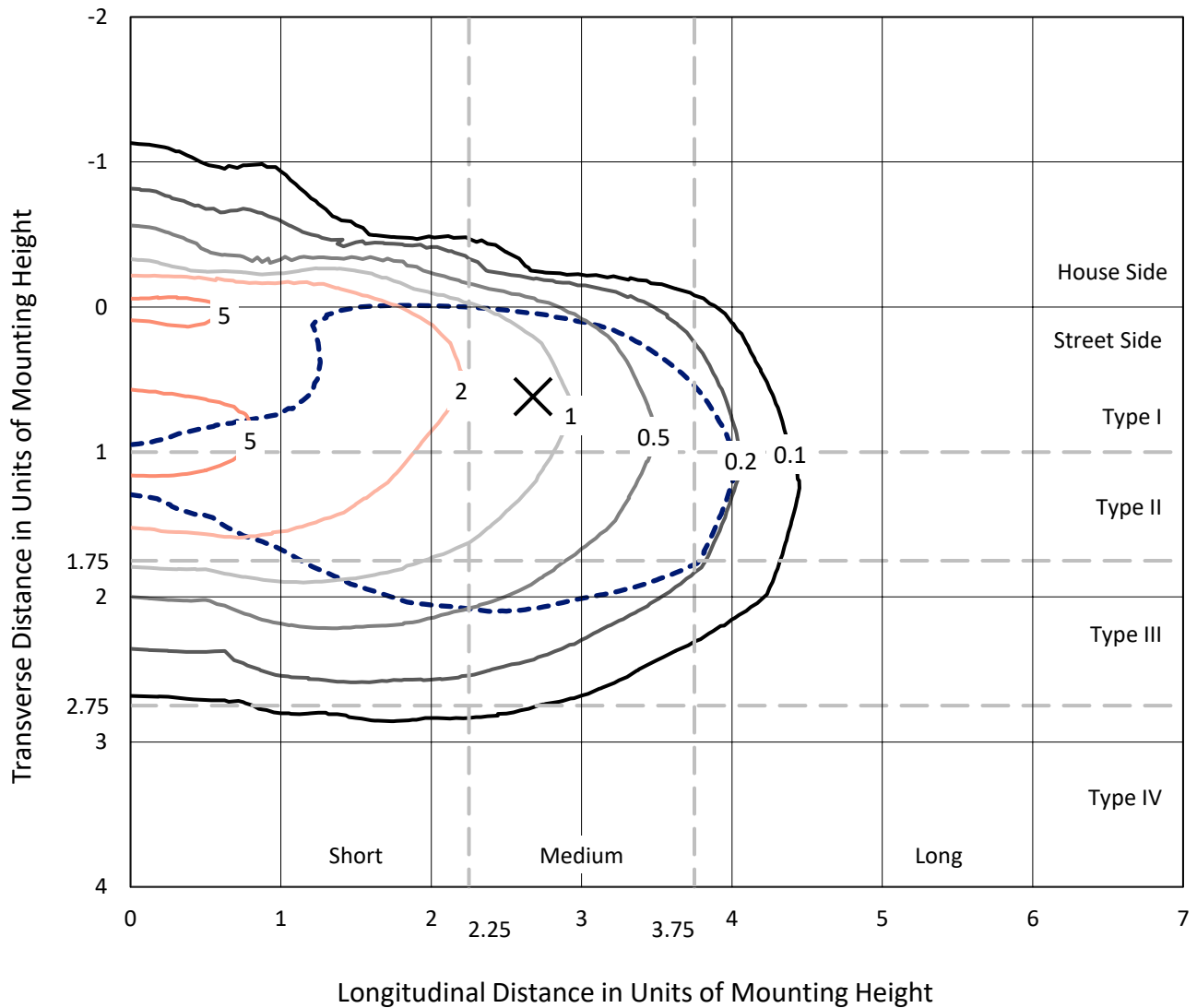
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

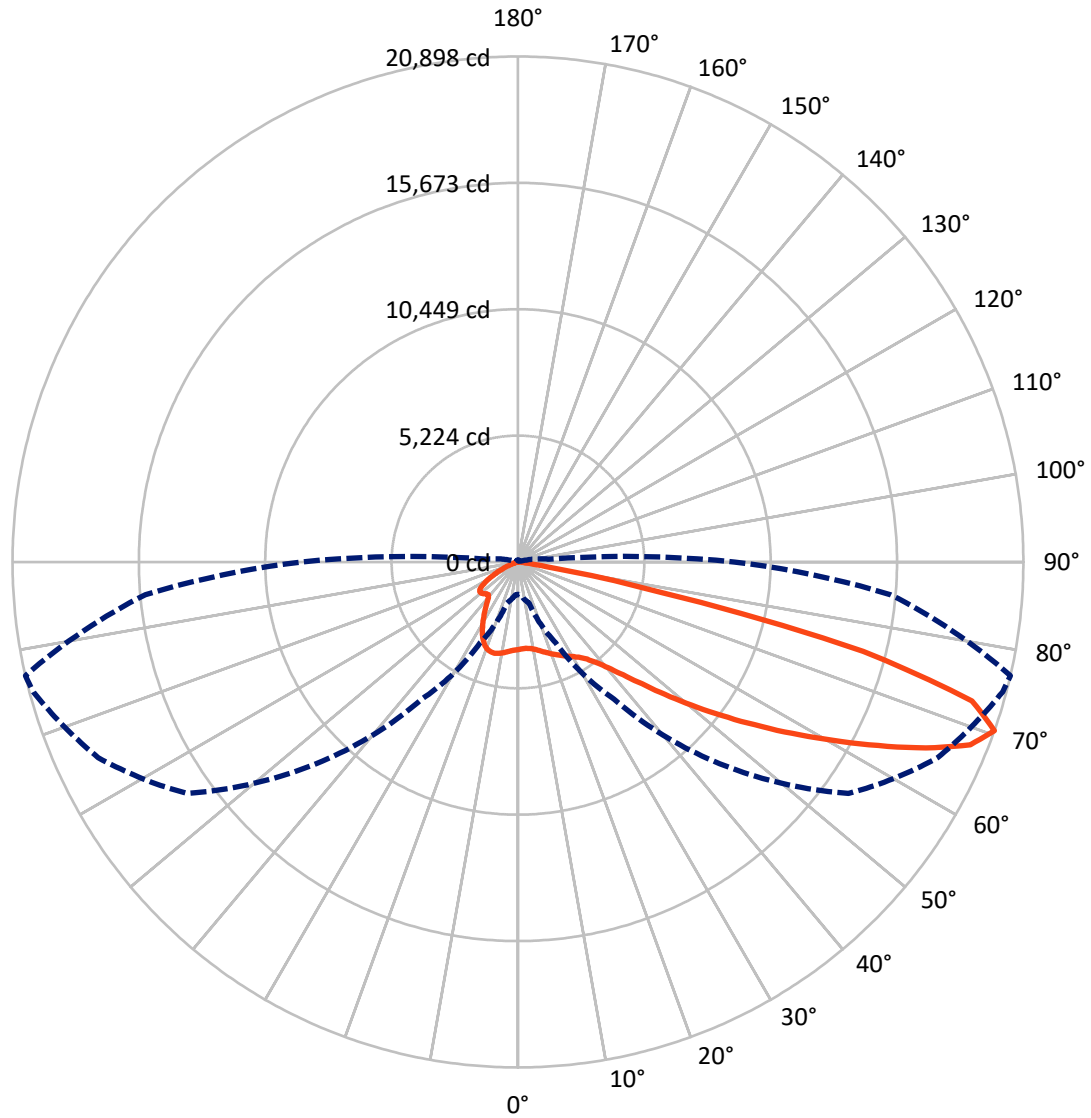
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2444.9	0.0	2444.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	20748.1	0.0	20748.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	23193.0	0.0	23193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.8	1.3
10°-20°	740.1	3.2
20°-30°	1144.8	4.9
30°-40°	2077.3	9.0
40°-50°	3921.2	16.9
50°-60°	5665.8	24.4
60°-70°	6031.0	26.0
70°-80°	3196.0	13.8
80°-90°	104.9	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°	23193.0	100.0
0°-180°	23193.0	100.0

Coefficient of Utilization



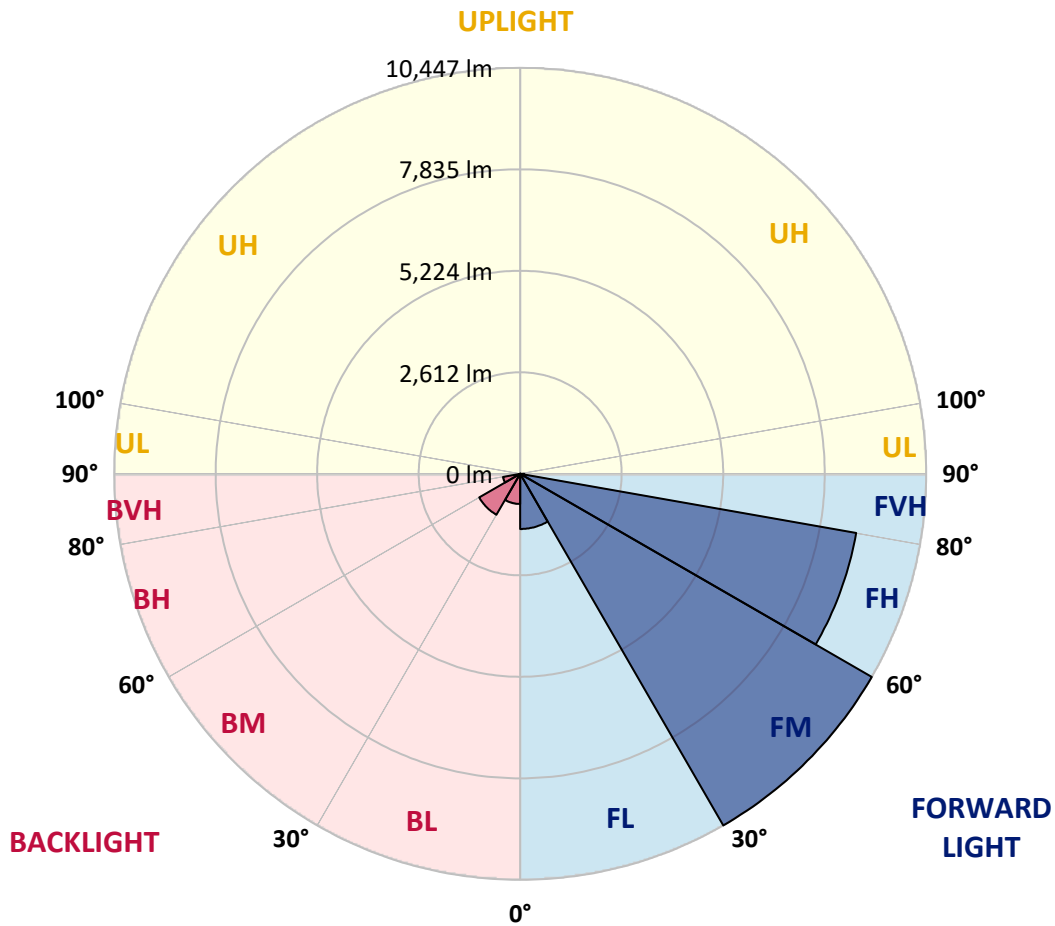
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1420.0	6.1			
FM (30°-60°)	10447.2	45.0			
FH (60°-80°)	8778.9	37.9			G4/12000
FVH (80°-90°)	102.1	0.4			G2/225
BL (0°-30°)	776.8	3.3	B2/1000		
BM (30°-60°)	1217.1	5.2	B2/2500		
BH (60°-80°)	448.2	1.9	B1/500		G1/500
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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3617.7	3617.7	3617.7	3617.7	3617.7	3617.7	3617.7	3617.7	3617.7	3617.7
2.5°	3396.5	3427.3	3422.9	3443.4	3450.7	3480.0	3509.3	3548.9	3592.8	3591.3
5°	3204.7	3235.4	3242.7	3270.6	3305.7	3351.1	3411.2	3490.3	3572.3	3585.5
7.5°	2977.6	3009.9	3028.9	3084.6	3149.0	3242.7	3340.9	3456.6	3592.8	3611.8
10°	2750.6	2779.9	2804.8	2883.9	2986.4	3125.6	3285.2	3452.2	3635.3	3663.1
12.5°	2610.0	2637.8	2665.7	2734.5	2861.9	3031.8	3248.6	3472.7	3705.6	3745.1
15°	2560.2	2585.1	2607.1	2668.6	2787.2	2980.6	3241.3	3515.2	3794.9	3847.6
17.5°	2567.5	2580.7	2595.4	2642.2	2757.9	2957.1	3254.5	3588.4	3900.4	3947.2
20°	2610.0	2617.3	2618.8	2651.0	2753.5	2954.2	3280.8	3658.7	4000.0	4062.9
22.5°	2664.2	2667.1	2664.2	2686.2	2781.4	2976.2	3316.0	3743.6	4111.3	4169.9
25°	2917.6	2861.9	2791.6	2749.2	2828.2	3018.6	3368.7	3857.9	4232.8	4290.0
27.5°	3704.1	3544.5	3292.5	3009.9	2924.9	3080.2	3441.9	3973.6	4355.9	4407.1
30°	4981.3	4771.8	4344.2	3707.0	3235.4	3209.1	3537.1	4089.3	4486.2	4541.9
32.5°	6261.4	6210.1	5716.5	4834.8	3934.1	3496.1	3695.3	4246.0	4659.1	4703.0
35°	7556.1	7452.1	7047.9	6176.4	5010.6	4080.5	3959.0	4451.1	4886.1	4935.9
37.5°	8547.7	8484.7	8234.3	7516.6	6287.7	4982.7	4410.1	4768.9	5215.6	5271.3
40°	9423.6	9394.3	9309.3	8836.2	7715.8	6163.3	5111.6	5261.0	5672.6	5738.5
42.5°	10112.0	10180.8	10229.1	10097.3	9187.8	7510.7	6054.9	5952.3	6309.7	6377.1
45°	10816.5	10839.9	11034.7	11225.1	10649.5	8919.7	7118.2	6762.3	7102.1	7185.6
47.5°	11269.0	11362.8	11705.5	12040.9	11878.3	10317.0	8260.6	7718.7	8020.4	8177.1
50°	11302.7	11479.9	11951.6	12536.0	12773.2	11646.9	9502.7	8808.4	9129.2	9302.0
52.5°	10741.8	11017.1	11748.0	12603.3	13256.6	12773.2	10787.2	9898.1	10309.7	10535.2
55°	8235.7	8596.0	10982.0	12237.2	13275.6	13627.1	12038.0	11033.2	11624.9	11879.8
57.5°	7175.3	7356.9	8634.1	11601.5	12922.6	13971.3	13168.7	12114.1	13055.9	13372.3
60°	5969.9	6208.7	7241.2	10561.6	12443.7	14005.0	14167.6	13508.5	14607.0	14962.9
62.5°	4057.1	4316.3	5343.0	8774.7	11789.0	13988.9	14986.3	14943.8	16330.9	16713.1
65°	2513.3	2675.9	3352.6	7165.1	10873.6	14006.5	15843.1	16686.8	18150.0	18538.1
67.5°	1986.1	2060.8	2413.7	5501.2	9296.1	13611.0	16698.5	18325.7	19862.1	20169.7
70°	1334.3	1379.7	1756.1	3688.0	6916.1	11786.1	16682.4	19148.9	20743.9	20897.6
72.5°	703.0	738.2	1026.7	1707.8	4177.2	8377.8	14062.1	18164.6	19866.5	19635.1
75°	351.5	410.1	691.3	867.1	1783.9	4672.2	8732.3	14321.4	15636.6	14740.3
77.5°	266.6	322.2	571.2	571.2	621.0	1573.0	3698.2	7811.0	7204.6	5999.2
80°	169.9	219.7	499.4	432.1	259.2	399.8	963.7	2188.2	1530.6	1164.4
82.5°	99.6	143.5	416.0	285.6	145.0	147.9	272.4	465.8	396.9	309.0
85°	39.5	93.7	285.6	112.8	57.1	36.6	82.0	99.6	82.0	61.5
87.5°	0.0	22.0	49.8	0.0	4.4	2.9	5.9	7.3	7.3	5.9
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°
3617.7	0°	3617.7	3617.7	3617.7	3617.7	3617.7	3617.7	3617.7	3617.7	3617.7	3617.7
3620.6	2.5°	3633.8	3636.7	3645.5	3647.0	3626.5	3600.1	3589.9	3585.5	3567.9	3566.4
3644.1	5°	3677.7	3690.9	3677.7	3639.7	3548.9	3421.4	3324.8	3245.7	3173.9	3151.9
3724.6	7.5°	3765.6	3778.8	3739.3	3589.9	3361.4	3108.0	2879.5	2718.4	2573.4	2519.2
3822.7	10°	3891.6	3909.2	3784.7	3482.9	3078.7	2671.5	2284.9	2012.4	1800.1	1713.6
3956.0	12.5°	4049.8	4057.1	3809.6	3320.4	2711.1	2129.6	1581.8	1290.4	1101.4	1031.1
4117.1	15°	4224.1	4213.8	3812.5	3099.2	2210.2	1505.7	1032.6	848.0	771.9	748.4
4278.2	17.5°	4407.1	4364.7	3753.9	2779.9	1660.9	1029.6	766.0	722.1	708.9	703.0
4437.9	20°	4587.3	4492.1	3647.0	2362.5	1192.2	768.9	695.7	682.5	675.2	672.3
4599.0	22.5°	4751.3	4588.8	3463.9	1877.7	865.6	679.6	657.6	645.9	632.7	626.9
4755.7	25°	4911.0	4644.4	3206.1	1425.1	692.8	635.7	618.1	596.1	578.5	571.2
4924.2	27.5°	5066.2	4679.6	2883.9	1054.5	618.1	594.6	562.4	531.7	518.5	515.6
5104.3	30°	5231.7	4691.3	2517.7	786.5	572.7	543.4	496.5	461.4	454.0	455.5
5347.4	32.5°	5433.9	4708.9	2148.6	644.4	534.6	481.9	426.2	389.6	383.7	389.6
5701.9	35°	5675.5	4744.0	1792.7	593.2	500.9	418.9	358.8	328.1	322.2	326.6
6155.9	37.5°	6003.6	4801.1	1460.3	582.9	473.1	366.2	301.7	276.8	276.8	278.3
6712.5	40°	6440.1	4953.5	1162.9	575.6	458.4	326.6	254.8	244.6	249.0	251.9
7421.4	42.5°	6971.7	5277.1	962.3	566.8	442.3	309.0	231.4	227.0	234.3	237.3
8270.9	45°	7567.9	5687.2	892.0	552.2	427.7	320.8	221.2	215.3	224.1	225.6
9222.9	47.5°	8184.5	6088.6	883.2	536.1	413.0	338.3	218.2	205.1	215.3	216.8
10239.4	50°	8808.4	6350.7	892.0	511.2	389.6	338.3	219.7	194.8	203.6	208.0
11293.9	52.5°	9436.7	6470.8	886.1	457.0	348.6	317.8	219.7	186.0	194.8	197.7
12433.4	55°	10046.0	6447.4	796.8	376.4	295.9	281.2	213.8	178.7	184.5	186.0
13509.9	57.5°	10527.9	6120.8	631.3	292.9	240.2	234.3	194.8	169.9	174.3	172.8
14497.1	60°	10779.8	5403.1	451.1	225.6	188.9	184.5	171.4	158.2	161.1	153.8
15333.4	62.5°	10782.8	4454.0	301.7	178.7	150.9	146.5	146.5	142.1	139.1	124.5
15980.8	65°	10552.8	3400.9	200.7	142.1	121.6	114.2	123.0	121.6	111.3	90.8
16178.5	67.5°	10031.4	2229.2	152.3	111.3	93.7	89.3	98.1	102.5	95.2	76.2
15457.9	70°	8959.3	1297.7	126.0	86.4	70.3	65.9	79.1	87.9	79.1	61.5
13212.6	72.5°	7441.9	700.1	102.5	64.4	48.3	43.9	63.0	71.8	63.0	45.4
8477.4	75°	4829.0	375.0	79.1	42.5	24.9	27.8	46.9	52.7	43.9	29.3
2488.4	77.5°	1621.4	165.5	49.8	20.5	11.7	11.7	27.8	32.2	20.5	10.3
452.6	80°	361.8	68.8	20.5	8.8	4.4	4.4	5.9	5.9	2.9	0.0
139.1	82.5°	118.6	27.8	8.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
35.2	85°	45.4	10.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.7	87.5°	17.6	1.5	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>
3617.7
3569.4
3138.7
2497.2
1677.0
1009.1
748.4
701.6
669.3
625.4
568.3
512.6
455.5
388.1
325.2
276.8
251.9
237.3
227.0
218.2
209.4
197.7
186.0
172.8
152.3
120.1
87.9
74.7
58.6
43.9
26.4
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