

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: P956878

Luminaire Tested: **GALN-SB9B-927-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956878
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-SB9B-927-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 450mA 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: 23860 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

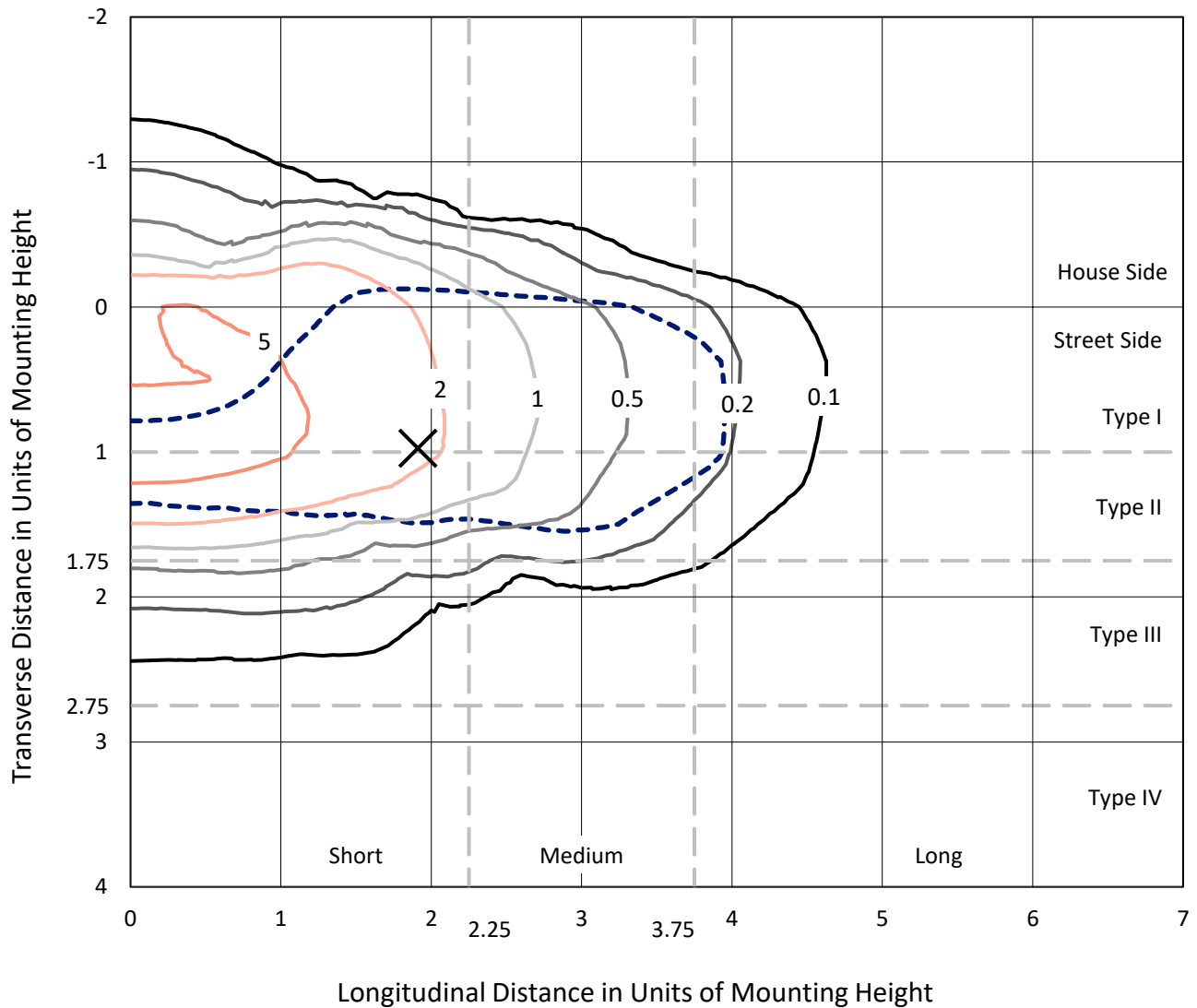
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

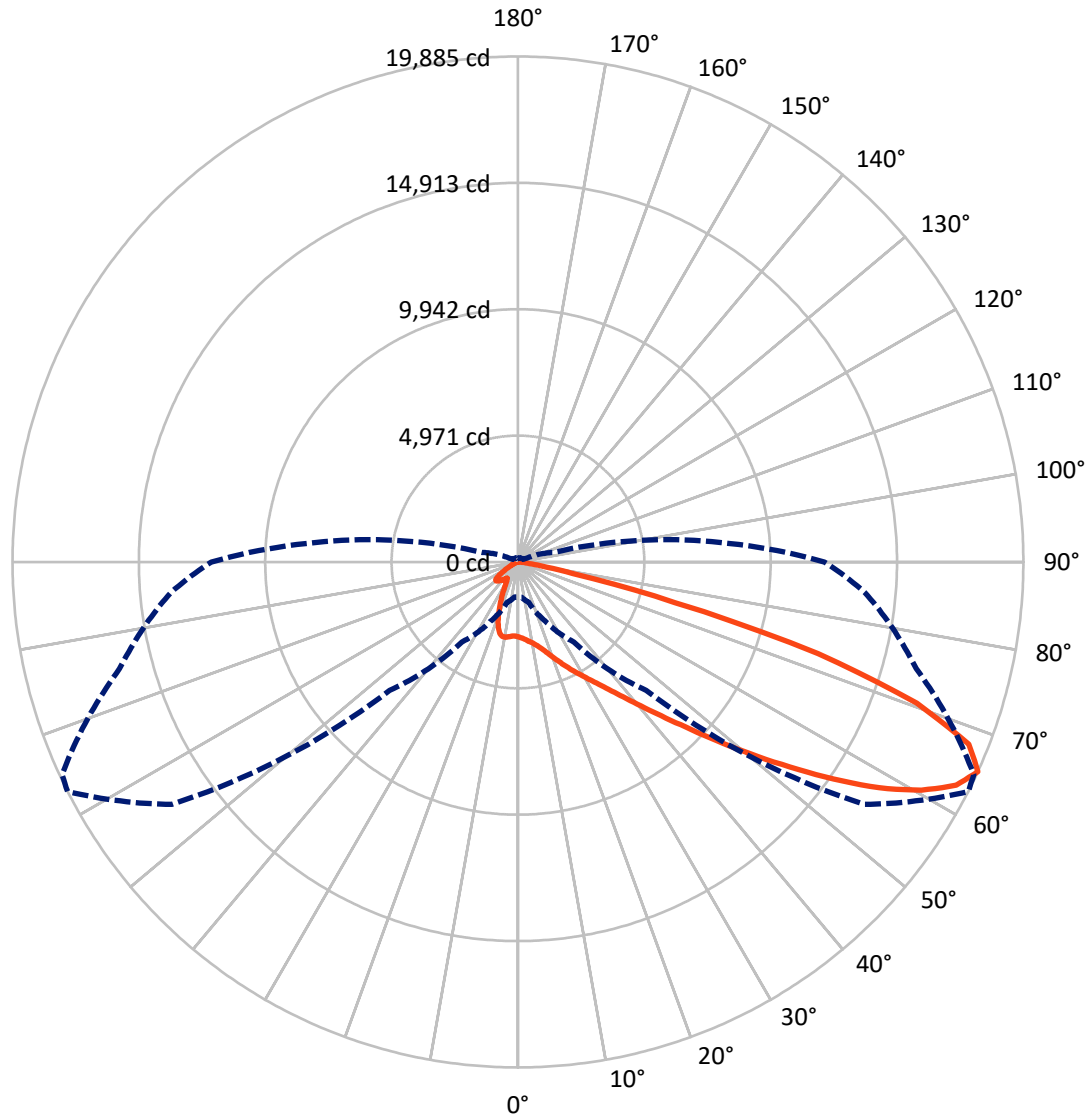
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	3507.2	0.0	3507.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	20352.8	0.0	20352.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	23860.0	0.0	23860.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.5	1.2
10°-20°	769.8	3.2
20°-30°	1340.5	5.6
30°-40°	2416.1	10.1
40°-50°	4791.8	20.1
50°-60°	6527.2	27.4
60°-70°	5210.0	21.8
70°-80°	2357.6	9.9
80°-90°	169.5	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°	23860.0	100.0
0°-180°	23860.0	100.0

Coefficient of Utilization



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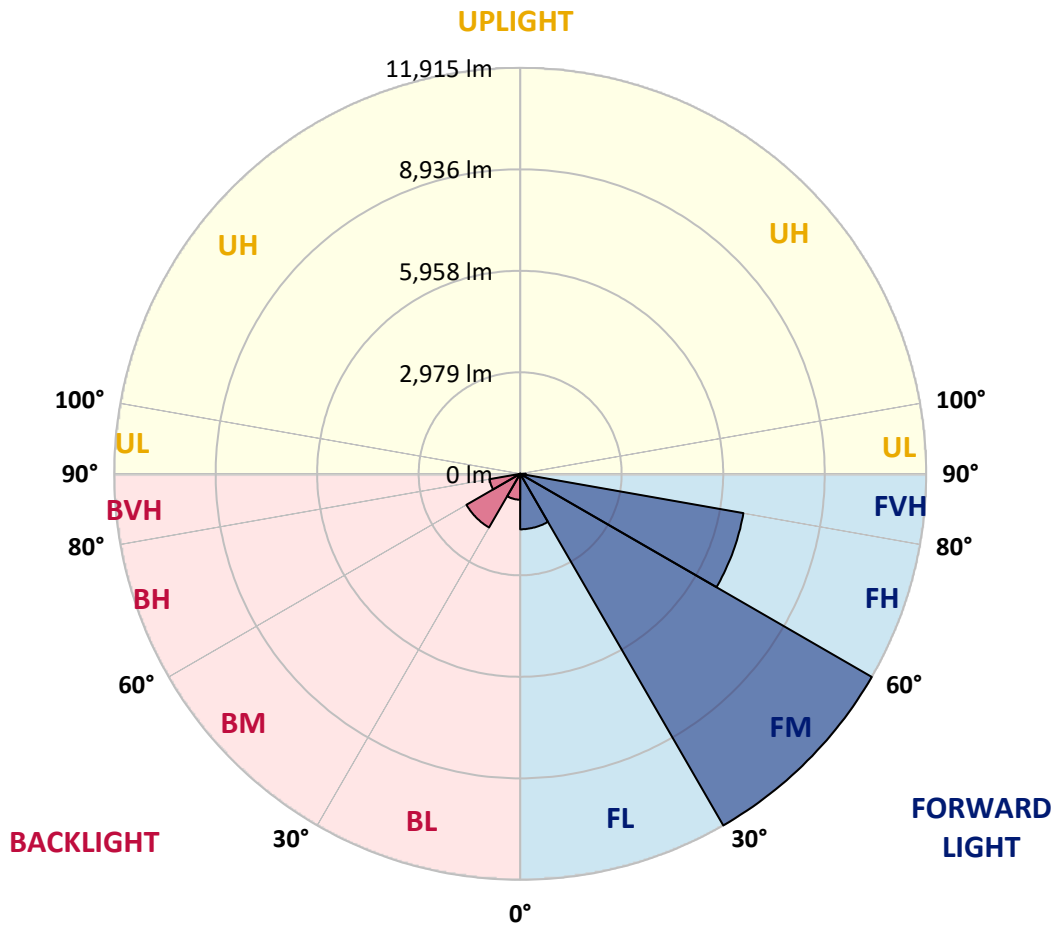
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1628.7	6.8			
FM (30°-60°)	11915.1	49.9			
FH (60°-80°)	6652.0	27.9			G3/7500
FVH (80°-90°)	156.9	0.7			G2/225
BL (0°-30°)	759.0	3.2	B2/1000		
BM (30°-60°)	1820.0	7.6	B2/2500		
BH (60°-80°)	915.6	3.8	B2/1000		G2/1000
BVH (80°-90°)	12.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2944.8	2944.8	2944.8	2944.8	2944.8	2944.8	2944.8	2944.8	2944.8	2944.8
2.5°	3013.7	3005.5	3017.0	3012.1	3008.8	3002.2	2998.9	2995.7	2989.1	2984.2
5°	3021.9	3017.0	3028.5	3038.3	3048.2	3058.0	3063.0	3069.5	3063.0	3049.8
7.5°	2953.0	2949.7	2974.3	3003.9	3048.2	3085.9	3127.0	3150.0	3151.6	3146.7
10°	2948.1	2939.9	2964.5	3000.6	3058.0	3125.3	3197.6	3246.8	3253.4	3274.7
12.5°	3025.2	3017.0	3051.5	3090.9	3150.0	3220.5	3309.2	3378.1	3388.0	3417.5
15°	3154.9	3143.4	3182.8	3233.7	3309.2	3389.6	3483.2	3545.5	3553.8	3589.9
17.5°	3305.9	3294.4	3340.4	3394.5	3476.6	3586.6	3694.9	3763.9	3773.7	3796.7
20°	3499.6	3484.8	3520.9	3570.2	3657.2	3788.5	3918.2	4016.6	4015.0	4015.0
22.5°	3724.5	3701.5	3732.7	3772.1	3854.1	4013.4	4185.7	4302.3	4302.3	4256.3
25°	3965.8	3942.8	3977.3	4013.4	4085.6	4266.1	4468.0	4612.5	4619.1	4540.3
27.5°	4267.8	4238.2	4264.5	4307.2	4349.9	4533.7	4773.4	4940.8	4944.1	4822.6
30°	4848.9	4765.2	4683.1	4637.1	4656.8	4839.0	5095.1	5280.6	5297.0	5129.6
32.5°	5912.5	5896.1	5607.2	5229.7	5032.7	5167.3	5454.6	5677.8	5687.7	5472.6
35°	7565.5	7545.8	7081.2	6362.3	5720.5	5607.2	5891.2	6155.5	6148.9	5906.0
37.5°	9538.5	9520.5	8908.2	7946.3	6907.3	6272.0	6454.2	6731.6	6772.7	6454.2
40°	11224.3	11157.0	10769.6	9842.2	8483.1	7375.1	7255.2	7439.1	7481.8	7104.2
42.5°	12501.3	12443.9	12246.9	11667.5	10390.4	9006.7	8199.1	8269.7	8317.3	7864.2
45°	13162.8	13149.7	13228.5	13174.3	12333.9	11009.3	9548.4	9254.5	9272.6	8706.3
47.5°	13256.4	13249.8	13609.3	14118.2	14004.9	13267.9	11280.1	10482.3	10418.3	9656.7
50°	12704.9	12691.7	13381.2	14334.8	15121.1	15165.4	13246.6	11866.1	11724.9	10639.9
52.5°	10943.6	10940.3	12072.9	13660.2	15513.4	16826.6	15190.0	13386.1	13149.7	11680.6
55°	8420.7	8481.4	9779.8	11656.0	14797.7	17626.0	16934.9	15073.5	14710.7	12727.9
57.5°	5965.1	6053.7	7337.3	9008.3	12578.5	17153.2	18115.1	16764.2	16373.5	13771.8
60°	3204.1	3282.9	4568.2	6562.5	9357.9	15390.3	18737.2	18231.7	17862.3	14763.3
62.5°	1909.0	1935.3	2467.1	4236.6	6329.5	11757.8	18473.0	19349.5	19045.8	15595.5
65°	1370.6	1375.5	1643.1	2586.9	3842.7	7143.6	16619.8	19884.6	19791.1	16222.5
67.5°	1153.9	1150.7	1262.3	1718.6	2618.1	3578.4	12737.7	19127.9	19525.1	16619.8
70°	989.8	994.7	1126.0	1259.0	1968.1	2025.6	6332.7	16654.2	17501.2	16724.8
72.5°	737.0	753.4	874.9	1147.4	1485.5	1393.6	2186.4	12348.7	13880.2	15758.0
75°	520.3	528.5	615.5	965.2	1108.0	1014.4	1116.2	6383.6	8346.8	12081.1
77.5°	400.5	415.3	466.2	674.6	1091.6	712.4	682.8	2209.4	3394.5	7297.9
80°	216.7	242.9	336.5	487.5	766.6	503.9	338.1	879.8	1150.7	3412.6
82.5°	111.6	124.8	234.7	351.3	436.6	439.9	167.4	366.0	474.4	1053.8
85°	44.3	54.2	157.6	193.7	224.9	216.7	75.5	147.7	170.7	292.2
87.5°	9.8	16.4	57.5	44.3	42.7	46.0	18.1	34.5	32.8	34.5
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°
2944.8	0°	2944.8	2944.8	2944.8	2944.8	2944.8	2944.8	2944.8	2944.8	2944.8	2944.8
2964.5	2.5°	2962.8	2956.3	2938.2	2918.5	2895.5	2882.4	2874.2	2872.6	2861.1	2852.9
3030.1	5°	3012.1	3005.5	2971.0	2930.0	2885.7	2851.2	2818.4	2788.8	2746.2	2738.0
3125.3	7.5°	3110.6	3092.5	3036.7	2980.9	2897.2	2797.0	2675.6	2536.1	2411.3	2373.5
3251.7	10°	3232.0	3207.4	3136.8	3038.3	2852.9	2580.4	2286.6	2014.1	1797.4	1736.7
3401.1	12.5°	3369.9	3348.6	3255.0	3072.8	2667.4	2173.3	1723.5	1385.4	1175.3	1122.8
3560.3	15°	3534.1	3502.9	3373.2	3020.3	2335.8	1651.3	1183.5	983.2	907.7	897.9
3742.5	17.5°	3708.1	3657.2	3478.2	2831.5	1889.3	1173.6	914.3	856.8	824.0	814.2
3926.4	20°	3867.3	3801.6	3540.6	2545.9	1411.7	914.3	819.1	781.3	751.8	740.3
4110.2	22.5°	4026.5	3932.9	3540.6	2156.9	1058.7	810.9	751.8	717.3	682.8	668.1
4307.2	25°	4192.3	4067.5	3478.2	1723.5	851.9	743.6	687.8	650.0	620.5	602.4
4494.3	27.5°	4353.1	4180.8	3335.4	1313.2	758.4	684.5	628.7	592.6	564.7	551.5
4697.9	30°	4505.8	4292.4	3135.2	996.4	697.6	627.0	574.5	543.3	515.4	502.3
4962.1	32.5°	4712.6	4433.6	2921.8	817.4	645.1	572.9	525.3	495.7	471.1	461.2
5305.2	35°	4999.9	4642.0	2738.0	802.7	600.8	528.5	480.9	453.0	428.4	420.2
5748.4	37.5°	5407.0	4978.5	2641.1	901.2	564.7	489.2	444.8	415.3	392.3	385.7
6311.4	40°	5909.2	5434.9	2693.6	999.6	540.0	454.7	412.0	382.5	362.8	354.6
6958.1	42.5°	6505.1	5997.9	2984.2	1075.2	523.6	425.1	380.8	348.0	334.9	331.6
7691.9	45°	7189.6	6616.7	3429.0	1155.6	497.4	397.2	349.6	325.0	315.2	313.5
8489.6	47.5°	7967.6	7296.3	3944.4	1255.7	471.1	371.0	325.0	308.6	300.4	297.1
9321.8	50°	8739.1	7980.8	4474.6	1311.5	449.8	346.3	305.3	292.2	285.6	284.0
10201.7	52.5°	9546.7	8685.0	4903.0	1259.0	431.7	326.7	288.9	279.0	272.5	270.8
11012.5	55°	10316.6	9254.5	4976.9	1068.6	395.6	307.0	270.8	265.9	257.7	257.7
11834.9	57.5°	10979.7	9540.2	4454.9	784.6	359.5	277.4	252.8	247.9	241.3	239.7
12576.8	60°	11588.7	9458.1	3438.9	528.5	320.1	247.9	229.8	226.5	220.0	211.7
13221.9	62.5°	11931.8	9097.0	2352.2	344.7	280.7	216.7	203.5	201.9	187.1	170.7
13699.6	65°	12061.4	8355.0	1467.5	251.1	234.7	185.5	175.6	172.4	151.0	133.0
13970.4	67.5°	11948.2	7133.8	740.3	198.6	185.5	154.3	144.4	144.4	129.7	113.3
13954.0	70°	11495.1	5347.9	311.9	159.2	142.8	118.2	118.2	124.8	110.0	91.9
13230.1	72.5°	10511.9	3598.1	165.8	121.5	106.7	83.7	96.8	101.8	87.0	68.9
10828.7	75°	8356.7	2194.6	114.9	90.3	67.3	59.1	73.9	77.1	59.1	46.0
7424.3	77.5°	5715.6	1260.6	77.1	57.5	42.7	34.5	50.9	47.6	31.2	21.3
2862.7	80°	2509.8	525.3	44.3	26.3	16.4	13.1	18.1	13.1	9.8	6.6
392.3	82.5°	293.8	123.1	16.4	9.8	6.6	3.3	1.6	0.0	0.0	0.0
119.8	85°	60.7	14.8	8.2	3.3	1.6	0.0	0.0	0.0	0.0	0.0
21.3	87.5°	11.5	3.3	1.6	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>
2944.8
2861.1
2734.7
2355.5
1713.7
1108.0
888.0
809.2
733.7
659.9
595.8
551.5
503.9
461.2
420.2
384.1
352.9
331.6
311.9
297.1
284.0
270.8
256.1
238.0
210.1
167.4
131.3
111.6
90.3
68.9
44.3
23.0
6.6
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