

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: P950452

Luminaire Tested: **GALN-SB4D-927-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950452
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-927-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 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: 18972 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

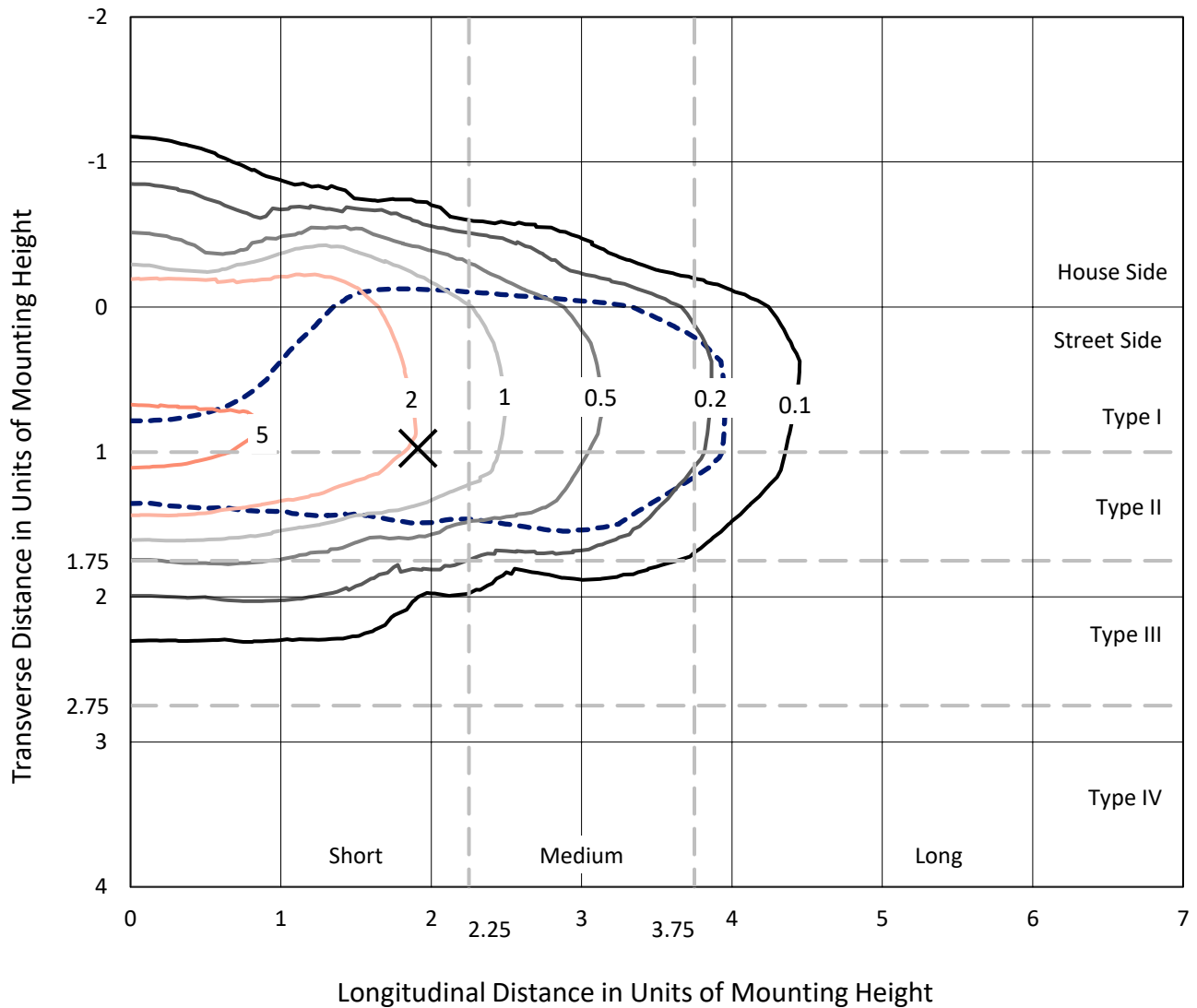
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

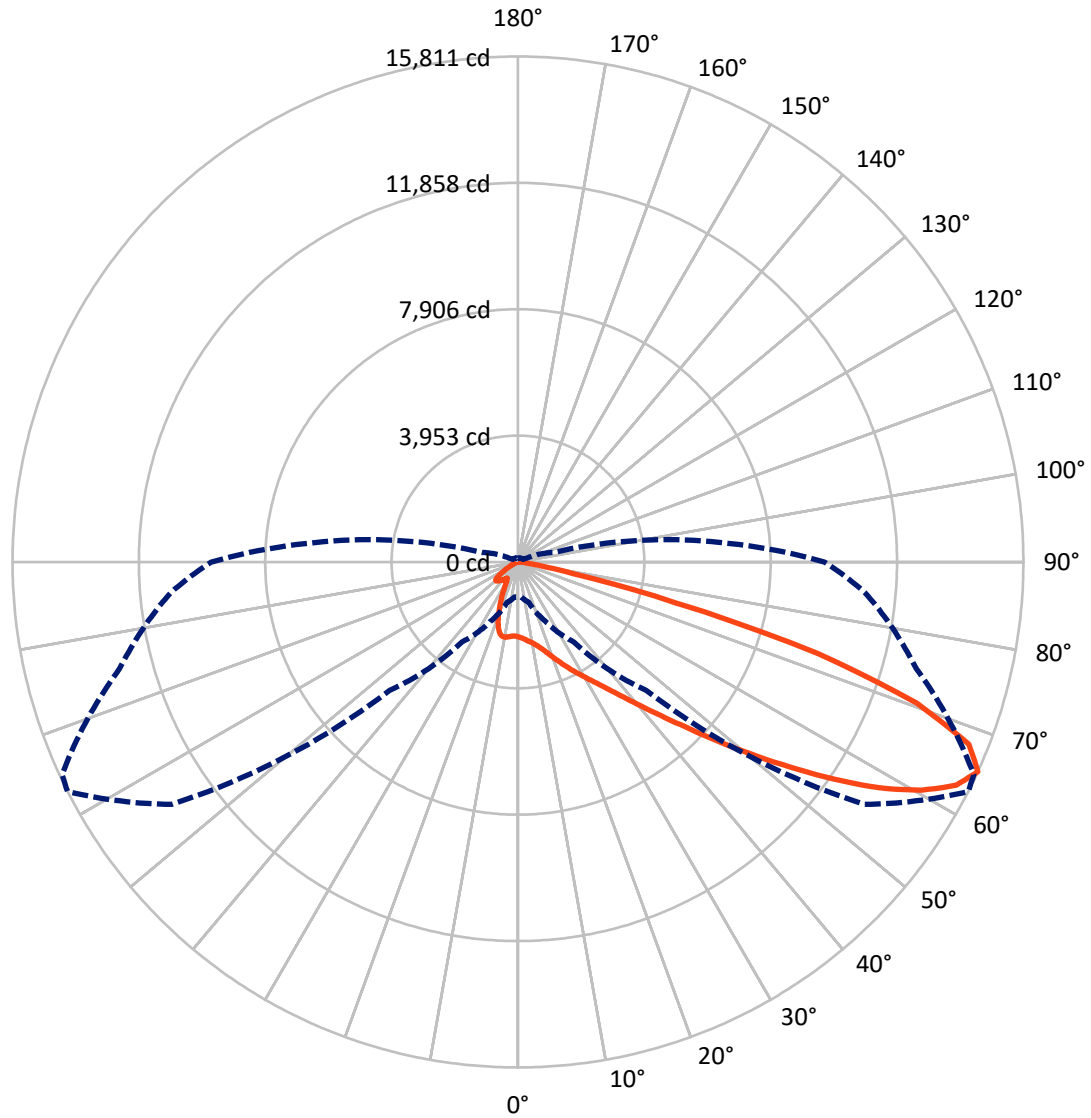
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	2788.7	0.0	2788.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	16183.3	0.0	16183.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	18972.0	0.0	18972.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.6	1.2
10°-20°	612.1	3.2
20°-30°	1065.9	5.6
30°-40°	1921.1	10.1
40°-50°	3810.2	20.1
50°-60°	5190.1	27.4
60°-70°	4142.7	21.8
70°-80°	1874.7	9.9
80°-90°	134.7	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°	18972.0	100.0
0°-180°	18972.0	100.0

Coefficient of Utilization



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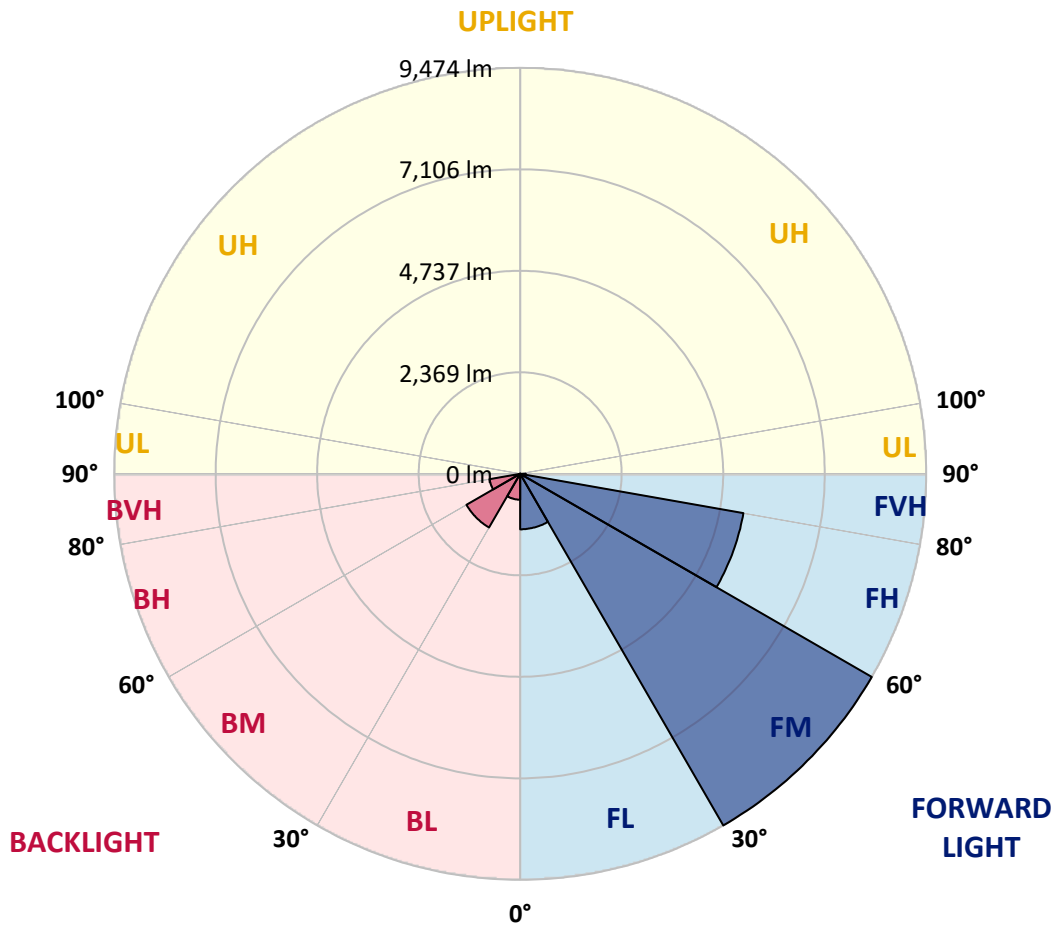
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1295.1	6.8			
FM (30°-60°)	9474.1	49.9			
FH (60°-80°)	5289.3	27.9			G3/7500
FVH (80°-90°)	124.7	0.7			G2/225
BL (0°-30°)	603.5	3.2	B2/1000		
BM (30°-60°)	1447.2	7.6	B2/2500		
BH (60°-80°)	728.0	3.8	B2/1000		G2/1000
BVH (80°-90°)	10.0	0.1			G0/10
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°	2341.5	2341.5	2341.5	2341.5	2341.5	2341.5	2341.5	2341.5	2341.5	2341.5
2.5°	2396.3	2389.8	2398.9	2395.0	2392.4	2387.2	2384.6	2382.0	2376.7	2372.8
5°	2402.8	2398.9	2408.1	2415.9	2423.7	2431.6	2435.5	2440.7	2435.5	2425.0
7.5°	2348.0	2345.4	2365.0	2388.5	2423.7	2453.7	2486.4	2504.7	2506.0	2502.0
10°	2344.1	2337.6	2357.2	2385.9	2431.6	2485.1	2542.5	2581.7	2586.9	2603.8
12.5°	2405.5	2398.9	2426.3	2457.7	2504.7	2560.8	2631.3	2686.1	2693.9	2717.4
15°	2508.6	2499.4	2530.8	2571.2	2631.3	2695.2	2769.6	2819.2	2825.7	2854.4
17.5°	2628.6	2619.5	2656.1	2699.1	2764.4	2851.8	2938.0	2992.8	3000.6	3018.9
20°	2782.7	2770.9	2799.6	2838.8	2908.0	3012.4	3115.5	3193.8	3192.5	3192.5
22.5°	2961.5	2943.2	2968.0	2999.3	3064.6	3191.2	3328.2	3420.9	3420.9	3384.3
25°	3153.3	3135.1	3162.5	3191.2	3248.6	3392.2	3552.7	3667.6	3672.8	3610.1
27.5°	3393.5	3370.0	3390.9	3424.8	3458.7	3604.9	3795.5	3928.6	3931.2	3834.6
30°	3855.5	3789.0	3723.7	3687.1	3702.8	3847.7	4051.3	4198.8	4211.8	4078.7
32.5°	4701.3	4688.2	4458.5	4158.3	4001.7	4108.7	4337.1	4514.6	4522.5	4351.5
35°	6015.6	5999.9	5630.6	5058.9	4548.6	4458.5	4684.3	4894.4	4889.2	4696.1
37.5°	7584.4	7570.1	7083.2	6318.4	5492.2	4987.1	5132.0	5352.6	5385.2	5132.0
40°	8924.9	8871.3	8563.3	7825.9	6745.2	5864.2	5768.9	5915.1	5949.0	5648.8
42.5°	9940.3	9894.6	9738.0	9277.3	8261.8	7161.6	6519.4	6575.5	6613.4	6253.1
45°	10466.3	10455.8	10518.5	10475.4	9807.2	8753.9	7592.3	7358.6	7373.0	6922.7
47.5°	10540.7	10535.5	10821.3	11225.9	11135.8	10549.8	8969.2	8334.9	8284.0	7678.4
50°	10102.1	10091.7	10639.9	11398.2	12023.4	12058.6	10532.8	9435.2	9322.9	8460.2
52.5°	8701.7	8699.1	9599.6	10861.8	12335.3	13379.5	12078.2	10643.8	10455.8	9287.7
55°	6695.6	6743.9	7776.3	9268.1	11766.2	14015.1	13465.6	11985.5	11697.1	10120.4
57.5°	4743.0	4813.5	5834.2	7162.9	10001.6	13639.2	14404.0	13329.9	13019.2	10950.5
60°	2547.7	2610.4	3632.3	5218.1	7440.9	12237.4	14898.7	14496.7	14203.0	11738.8
62.5°	1517.9	1538.8	1961.7	3368.7	5032.8	9349.0	14688.6	15385.5	15144.1	12400.6
65°	1089.8	1093.7	1306.5	2057.0	3055.4	5680.2	13215.0	15811.0	15736.6	12899.2
67.5°	917.5	914.9	1003.7	1366.5	2081.8	2845.3	10128.2	15209.3	15525.2	13215.0
70°	787.0	790.9	895.4	1001.1	1564.9	1610.6	5035.4	13242.4	13915.9	13298.5
72.5°	586.0	599.1	695.7	912.3	1181.2	1108.1	1738.5	9818.9	11036.7	12529.8
75°	413.7	420.3	489.4	767.4	881.0	806.6	887.5	5075.9	6636.9	9606.2
77.5°	318.5	330.2	370.7	536.4	867.9	566.5	543.0	1756.8	2699.1	5802.9
80°	172.3	193.2	267.6	387.6	609.5	400.7	268.9	699.6	914.9	2713.5
82.5°	88.8	99.2	186.6	279.3	347.2	349.8	133.1	291.1	377.2	837.9
85°	35.2	43.1	125.3	154.0	178.8	172.3	60.0	117.5	135.7	232.3
87.5°	7.8	13.1	45.7	35.2	33.9	36.5	14.4	27.4	26.1	27.4
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°
2341.5	0°	2341.5	2341.5	2341.5	2341.5	2341.5	2341.5	2341.5	2341.5	2341.5	2341.5
2357.2	2.5°	2355.9	2350.6	2336.3	2320.6	2302.3	2291.9	2285.4	2284.1	2274.9	2268.4
2409.4	5°	2395.0	2389.8	2362.4	2329.8	2294.5	2267.1	2241.0	2217.5	2183.6	2177.0
2485.1	7.5°	2473.3	2459.0	2414.6	2370.2	2303.7	2224.0	2127.5	2016.5	1917.3	1887.3
2585.6	10°	2569.9	2550.3	2494.2	2415.9	2268.4	2051.8	1818.1	1601.5	1429.2	1380.9
2704.3	12.5°	2679.5	2662.6	2588.2	2443.3	2120.9	1728.1	1370.4	1101.6	934.5	892.7
2830.9	15°	2810.1	2785.3	2682.2	2401.5	1857.3	1313.0	941.0	781.8	721.8	713.9
2975.8	17.5°	2948.4	2908.0	2765.7	2251.4	1502.3	933.2	727.0	681.3	655.2	647.4
3122.0	20°	3075.0	3022.8	2815.3	2024.3	1122.5	727.0	651.3	621.3	597.8	588.6
3268.2	22.5°	3201.6	3127.2	2815.3	1715.0	841.8	644.8	597.8	570.4	543.0	531.2
3424.8	25°	3333.4	3234.3	2765.7	1370.4	677.4	591.2	546.9	516.9	493.4	479.0
3573.6	27.5°	3461.4	3324.3	2652.1	1044.1	603.0	544.3	499.9	471.2	449.0	438.5
3735.4	30°	3582.7	3413.1	2492.9	792.2	554.7	498.6	456.8	432.0	409.8	399.4
3945.6	32.5°	3747.2	3525.3	2323.2	650.0	512.9	455.5	417.7	394.2	374.6	366.8
4218.4	35°	3975.6	3691.1	2177.0	638.2	477.7	420.3	382.4	360.2	340.7	334.1
4570.8	37.5°	4299.3	3958.6	2100.0	716.5	449.0	388.9	353.7	330.2	311.9	306.7
5018.4	40°	4698.7	4321.5	2141.8	794.9	429.4	361.5	327.6	304.1	288.4	281.9
5532.7	42.5°	5172.5	4769.1	2372.8	854.9	416.4	338.0	302.8	276.7	266.3	263.6
6116.1	45°	5716.7	5261.2	2726.5	918.9	395.5	315.9	278.0	258.4	250.6	249.3
6750.4	47.5°	6335.4	5801.6	3136.4	998.5	374.6	295.0	258.4	245.4	238.8	236.2
7412.1	50°	6948.8	6345.8	3557.9	1042.8	357.6	275.4	242.8	232.3	227.1	225.8
8111.7	52.5°	7591.0	6905.7	3898.6	1001.1	343.3	259.7	229.7	221.9	216.7	215.4
8756.5	55°	8203.1	7358.6	3957.3	849.7	314.5	244.1	215.4	211.4	204.9	204.9
9410.4	57.5°	8730.4	7585.7	3542.3	623.9	285.8	220.6	201.0	197.1	191.9	190.6
10000.3	60°	9214.6	7520.5	2734.4	420.3	254.5	197.1	182.7	180.1	174.9	168.4
10513.3	62.5°	9487.4	7233.3	1870.3	274.1	223.2	172.3	161.8	160.5	148.8	135.7
10893.1	65°	9590.5	6643.4	1166.8	199.7	186.6	147.5	139.7	137.0	120.1	105.7
11108.4	67.5°	9500.4	5672.3	588.6	157.9	147.5	122.7	114.9	114.9	103.1	90.1
11095.4	70°	9140.2	4252.3	248.0	126.6	113.6	94.0	94.0	99.2	87.4	73.1
10519.8	72.5°	8358.4	2861.0	131.8	96.6	84.8	66.6	77.0	80.9	69.2	54.8
8610.3	75°	6644.7	1745.0	91.4	71.8	53.5	47.0	58.7	61.3	47.0	36.5
5903.4	77.5°	4544.7	1002.4	61.3	45.7	33.9	27.4	40.5	37.9	24.8	17.0
2276.2	80°	1995.6	417.7	35.2	20.9	13.1	10.4	14.4	10.4	7.8	5.2
311.9	82.5°	233.6	97.9	13.1	7.8	5.2	2.6	1.3	0.0	0.0	0.0
95.3	85°	48.3	11.7	6.5	2.6	1.3	0.0	0.0	0.0	0.0	0.0
17.0	87.5°	9.1	2.6	1.3	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>
2341.5
2274.9
2174.4
1872.9
1362.6
881.0
706.1
643.5
583.4
524.7
473.8
438.5
400.7
366.8
334.1
305.4
280.6
263.6
248.0
236.2
225.8
215.4
203.6
189.3
167.1
133.1
104.4
88.8
71.8
54.8
35.2
18.3
5.2
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