

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: P952216

Luminaire Tested: **GALN-SB6A-850-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952216
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-SB6A-850-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 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: 19885 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

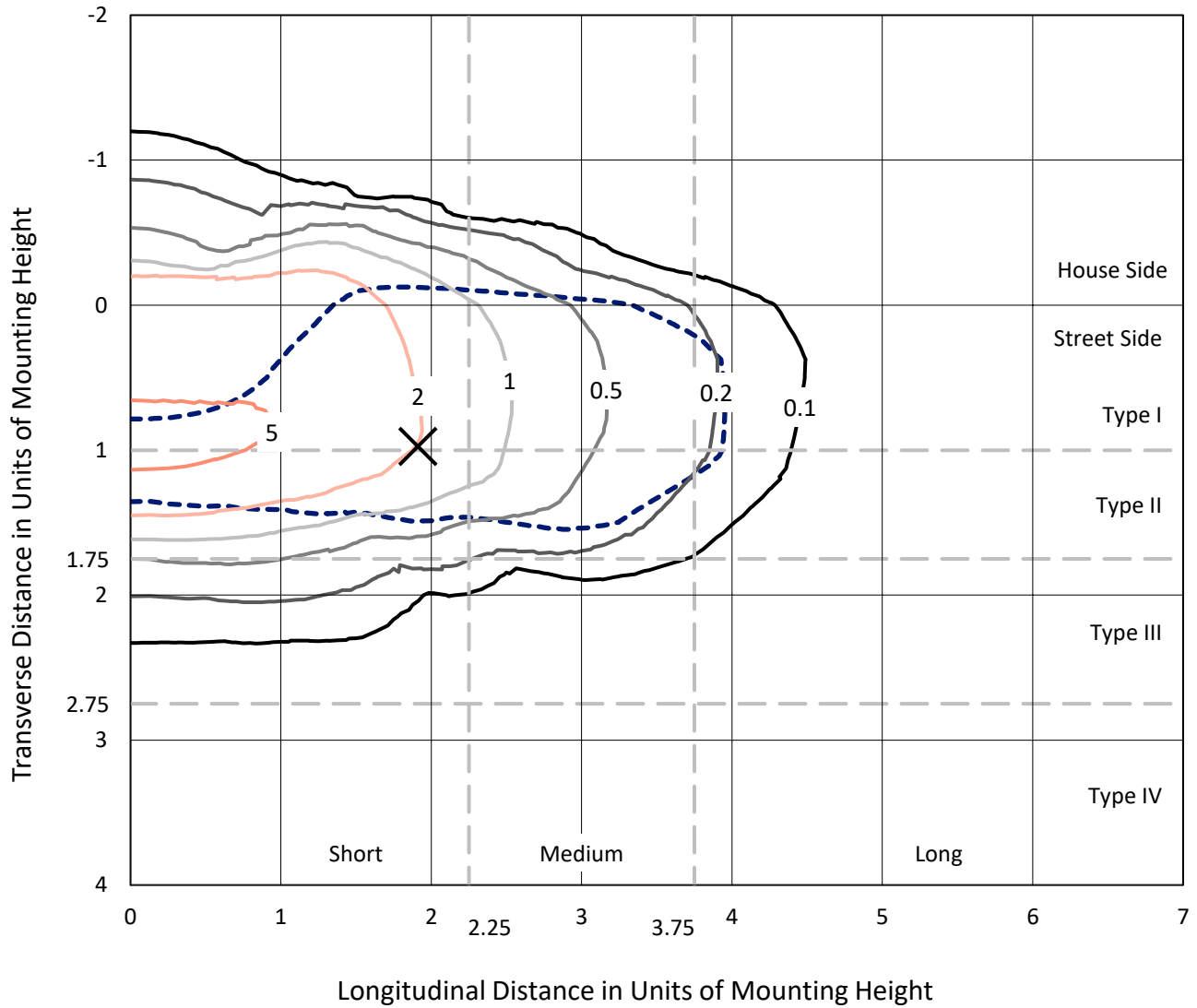
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

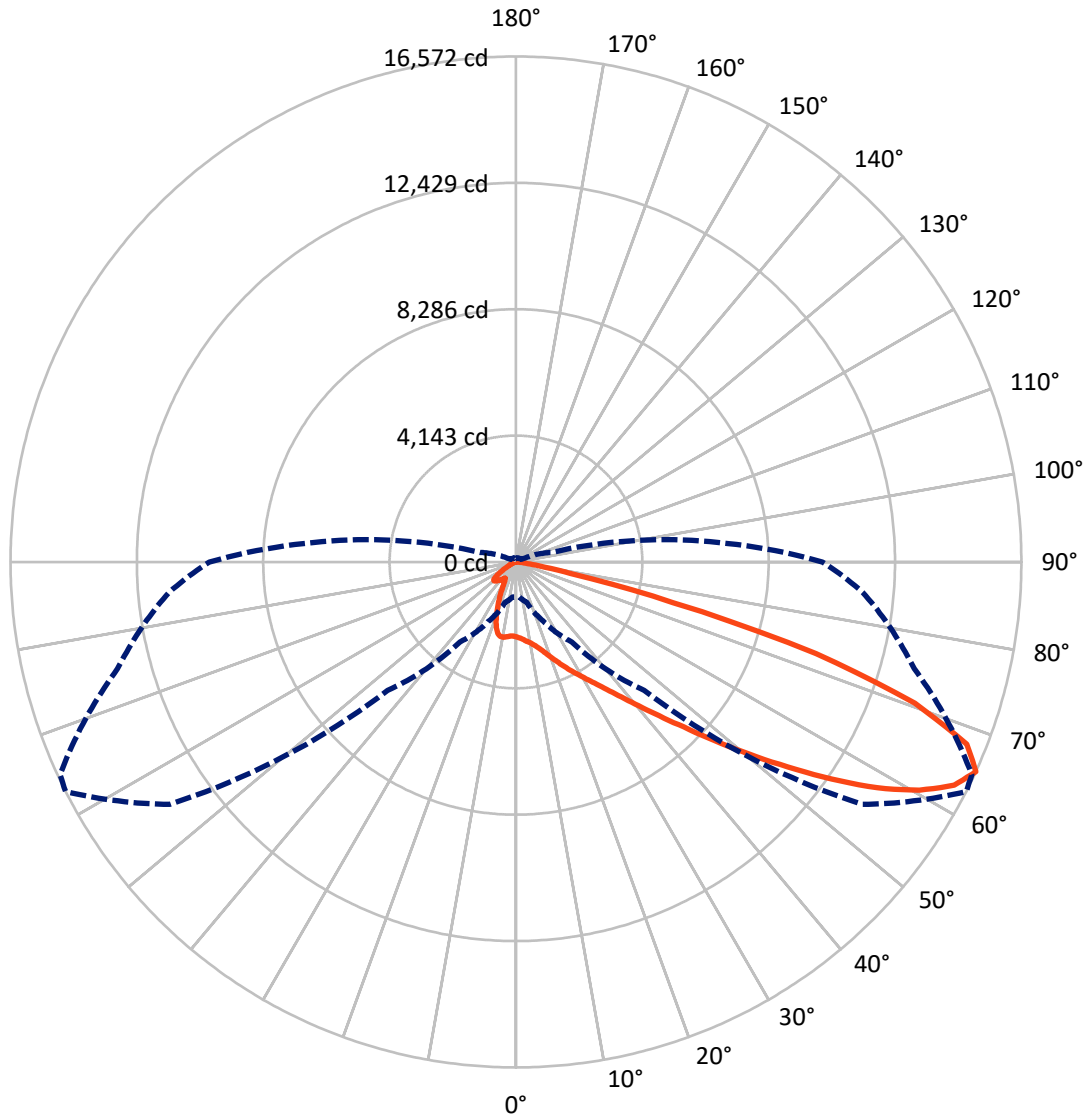
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	2922.9	0.0	2922.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	16962.1	0.0	16962.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	19885.0	0.0	19885.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.2	1.2
10°-20°	641.6	3.2
20°-30°	1117.2	5.6
30°-40°	2013.6	10.1
40°-50°	3993.5	20.1
50°-60°	5439.8	27.4
60°-70°	4342.0	21.8
70°-80°	1964.9	9.9
80°-90°	141.2	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°	19885.0	100.0
0°-180°	19885.0	100.0

Coefficient of Utilization



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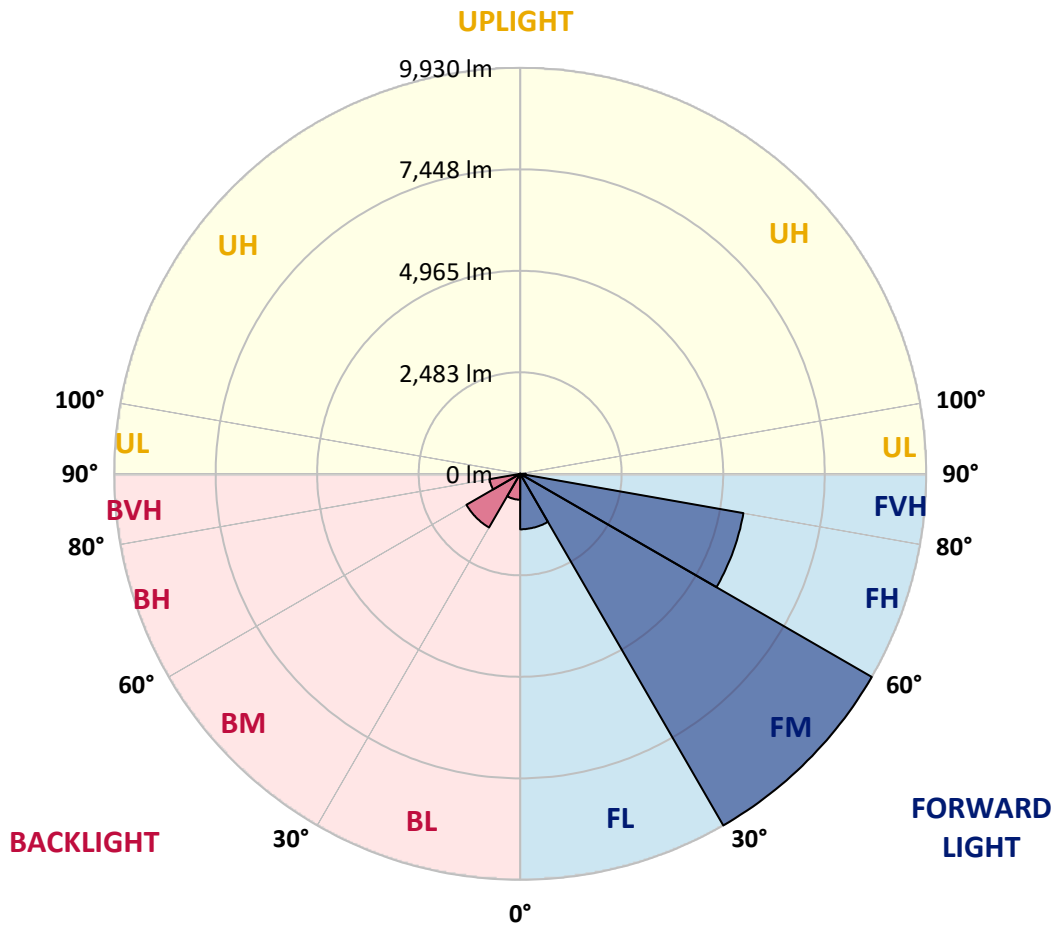
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1357.4	6.8			
FM (30°-60°)	9930.1	49.9			
FH (60°-80°)	5543.8	27.9			G3/7500
FVH (80°-90°)	130.8	0.7			G2/225
BL (0°-30°)	632.6	3.2	B2/1000		
BM (30°-60°)	1516.8	7.6	B2/2500		
BH (60°-80°)	763.1	3.8	B2/1000		G2/1000
BVH (80°-90°)	10.5	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°	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2
2.5°	2511.6	2504.8	2514.4	2510.3	2507.5	2502.1	2499.3	2496.6	2491.1	2487.0
5°	2518.5	2514.4	2524.0	2532.2	2540.4	2548.6	2552.7	2558.2	2552.7	2541.7
7.5°	2461.0	2458.3	2478.8	2503.4	2540.4	2571.8	2606.0	2625.2	2626.6	2622.4
10°	2456.9	2450.1	2470.6	2500.7	2548.6	2604.7	2664.9	2705.9	2711.4	2729.2
12.5°	2521.2	2514.4	2543.1	2575.9	2625.2	2684.0	2757.9	2815.3	2823.5	2848.2
15°	2629.3	2619.7	2652.5	2695.0	2757.9	2824.9	2902.9	2954.9	2961.7	2991.8
17.5°	2755.1	2745.6	2783.9	2829.0	2897.4	2989.1	3079.4	3136.8	3145.0	3164.2
20°	2916.6	2904.3	2934.4	2975.4	3047.9	3157.3	3265.4	3347.5	3346.1	3346.1
22.5°	3104.0	3084.8	3110.8	3143.7	3212.1	3344.8	3488.4	3585.5	3585.5	3547.2
25°	3305.1	3285.9	3314.7	3344.8	3404.9	3555.4	3723.7	3844.1	3849.5	3783.9
27.5°	3556.8	3532.2	3554.1	3589.6	3625.2	3778.4	3978.1	4117.7	4120.4	4019.2
30°	4041.1	3971.3	3902.9	3864.6	3881.0	4032.9	4246.3	4400.8	4414.5	4275.0
32.5°	4927.5	4913.8	4673.1	4358.4	4194.3	4306.5	4545.9	4731.9	4740.1	4560.9
35°	6305.1	6288.7	5901.5	5302.4	4767.5	4673.1	4909.7	5130.0	5124.5	4922.0
37.5°	7949.4	7934.4	7424.1	6622.5	5756.5	5227.1	5379.0	5610.2	5644.4	5379.0
40°	9354.4	9298.3	8975.4	8202.5	7069.8	6146.4	6046.5	6199.8	6235.3	5920.7
42.5°	10418.7	10370.8	10206.6	9723.7	8659.4	7506.2	6833.1	6892.0	6931.6	6554.1
45°	10970.0	10959.0	11024.7	10979.5	10279.1	9175.1	7957.6	7712.8	7727.8	7255.9
47.5°	11047.9	11042.5	11342.1	11766.1	11671.7	11057.5	9400.9	8736.0	8682.7	8047.9
50°	10588.3	10577.3	11151.9	11946.7	12602.0	12638.9	11039.7	9889.2	9771.6	8867.3
52.5°	9120.4	9117.7	10061.6	11384.5	12928.9	14023.3	12659.4	11156.0	10959.0	9734.7
55°	7017.8	7068.4	8150.5	9714.1	12332.5	14689.5	14113.6	12562.3	12260.0	10607.4
57.5°	4971.3	5045.2	6114.9	7507.6	10483.0	14295.6	15097.2	13971.3	13645.8	11477.5
60°	2670.3	2736.0	3807.1	5469.2	7798.9	12826.3	15615.7	15194.3	14886.5	12303.8
62.5°	1591.0	1612.9	2056.1	3530.8	5275.0	9799.0	15395.4	16125.9	15872.9	12997.3
65°	1142.3	1146.4	1369.4	2156.0	3202.5	5953.5	13851.0	16571.9	16493.9	13519.9
67.5°	961.7	959.0	1052.0	1432.3	2182.0	2982.2	10615.6	15941.3	16272.3	13851.0
70°	824.9	829.0	938.4	1049.3	1640.2	1688.1	5277.7	13879.7	14585.6	13938.5
72.5°	614.2	627.9	729.1	956.2	1238.0	1161.4	1822.2	10291.4	11567.8	13132.8
75°	433.7	440.5	513.0	804.4	923.4	845.4	930.2	5320.1	6956.3	10068.5
77.5°	333.8	346.1	388.5	562.2	909.7	593.7	569.1	1841.3	2829.0	6082.1
80°	180.6	202.5	280.4	406.3	638.9	420.0	281.8	733.2	959.0	2844.1
82.5°	93.0	104.0	195.6	292.8	363.9	366.6	139.5	305.1	395.4	878.3
85°	36.9	45.1	131.3	161.4	187.4	180.6	62.9	123.1	142.3	243.5
87.5°	8.2	13.7	47.9	36.9	35.6	38.3	15.0	28.7	27.4	28.7
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°
2454.2	0°	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2
2470.6	2.5°	2469.2	2463.8	2448.7	2432.3	2413.1	2402.2	2395.4	2394.0	2384.4	2377.6
2525.3	5°	2510.3	2504.8	2476.1	2441.9	2404.9	2376.2	2348.8	2324.2	2288.7	2281.8
2604.7	7.5°	2592.4	2577.3	2530.8	2484.3	2414.5	2331.1	2229.8	2113.6	2009.6	1978.1
2710.0	10°	2693.6	2673.1	2614.2	2532.2	2377.6	2150.5	1905.6	1678.5	1498.0	1447.3
2834.5	12.5°	2808.5	2790.7	2712.7	2560.9	2223.0	1811.2	1436.4	1154.6	979.5	935.7
2967.2	15°	2945.3	2919.3	2811.2	2517.1	1946.7	1376.2	986.3	819.4	756.5	748.3
3119.0	17.5°	3090.3	3047.9	2898.8	2359.8	1574.6	978.1	762.0	714.1	686.7	678.5
3272.2	20°	3223.0	3168.3	2950.8	2121.8	1176.5	762.0	682.6	651.2	626.5	617.0
3425.5	22.5°	3355.7	3277.7	2950.8	1797.5	882.4	675.8	626.5	597.8	569.1	556.8
3589.6	25°	3493.9	3389.9	2898.8	1436.4	710.0	619.7	573.2	541.7	517.1	502.1
3745.6	27.5°	3627.9	3484.3	2779.8	1094.4	632.0	570.5	523.9	493.8	470.6	459.6
3915.2	30°	3755.1	3577.3	2612.9	830.4	581.4	522.6	478.8	452.8	429.6	418.6
4135.5	32.5°	3927.5	3695.0	2435.0	681.3	537.6	477.4	437.8	413.1	392.6	384.4
4421.4	35°	4166.9	3868.7	2281.8	669.0	500.7	440.5	400.8	377.6	357.0	350.2
4790.7	37.5°	4506.2	4149.1	2201.1	751.0	470.6	407.7	370.7	346.1	327.0	321.5
5259.9	40°	4924.8	4529.4	2244.9	833.1	450.1	378.9	343.4	318.7	302.3	295.5
5798.9	42.5°	5421.4	4998.7	2487.0	896.0	436.4	354.3	317.4	290.0	279.1	276.3
6410.4	45°	5991.8	5514.4	2857.7	963.1	414.5	331.1	291.4	270.9	262.7	261.3
7075.3	47.5°	6640.3	6080.7	3287.3	1046.5	392.6	309.2	270.9	257.2	250.3	247.6
7768.8	50°	7283.2	6651.2	3729.2	1093.0	374.8	288.6	254.4	243.5	238.0	236.7
8502.1	52.5°	7956.3	7238.1	4086.2	1049.3	359.8	272.2	240.8	232.6	227.1	225.7
9177.9	55°	8597.9	7712.8	4147.8	890.6	329.7	255.8	225.7	221.6	214.8	214.8
9863.3	57.5°	9150.5	7950.8	3712.7	653.9	299.6	231.2	210.7	206.6	201.1	199.7
10481.6	60°	9658.1	7882.4	2866.0	440.5	266.8	206.6	191.5	188.8	183.3	176.5
11019.2	62.5°	9944.0	7581.4	1960.3	287.3	233.9	180.6	169.6	168.3	156.0	142.3
11417.3	65°	10052.0	6963.1	1223.0	209.3	195.6	154.6	146.4	143.6	125.9	110.8
11643.0	67.5°	9957.6	5945.3	617.0	165.5	154.6	128.6	120.4	120.4	108.1	94.4
11629.3	70°	9580.1	4456.9	259.9	132.7	119.0	98.5	98.5	104.0	91.7	76.6
11026.0	72.5°	8760.6	2998.6	138.2	101.2	88.9	69.8	80.7	84.8	72.5	57.5
9024.7	75°	6964.5	1829.0	95.8	75.2	56.1	49.2	61.6	64.3	49.2	38.3
6187.4	77.5°	4763.4	1050.6	64.3	47.9	35.6	28.7	42.4	39.7	26.0	17.8
2385.8	80°	2091.7	437.8	36.9	21.9	13.7	10.9	15.0	10.9	8.2	5.5
327.0	82.5°	244.9	102.6	13.7	8.2	5.5	2.7	1.4	0.0	0.0	0.0
99.9	85°	50.6	12.3	6.8	2.7	1.4	0.0	0.0	0.0	0.0	0.0
17.8	87.5°	9.6	2.7	1.4	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>
2454.2
2384.4
2279.1
1963.1
1428.2
923.4
740.1
674.4
611.5
549.9
496.6
459.6
420.0
384.4
350.2
320.1
294.1
276.3
259.9
247.6
236.7
225.7
213.4
198.4
175.1
139.5
109.4
93.0
75.2
57.5
36.9
19.2
5.5
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