

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: P954988

Luminaire Tested: **GALN-SB8A-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954988
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-SB8A-827-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 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: 24105 lumens
Efficiency: N/A
Efficacy: 106.1 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

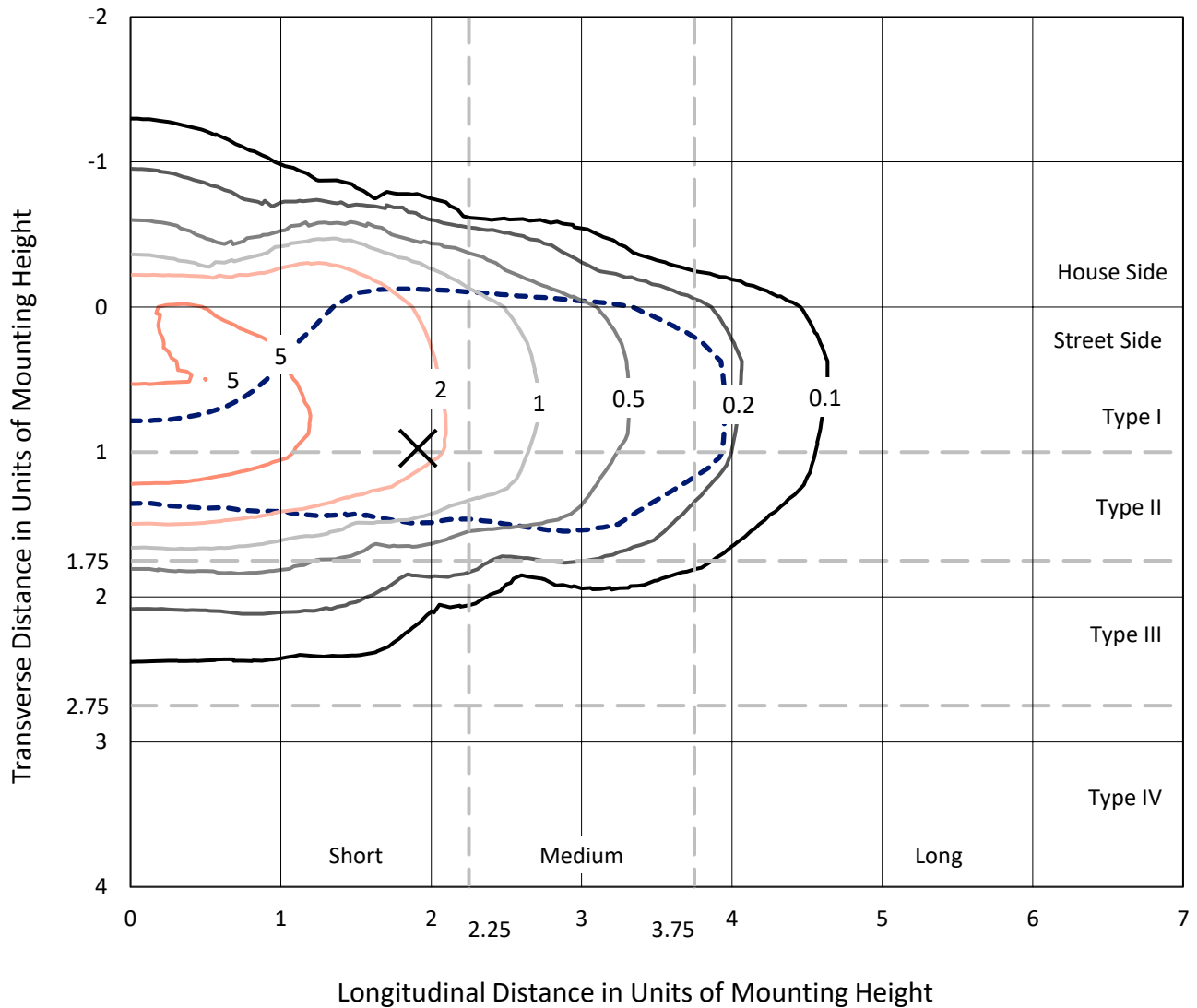
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

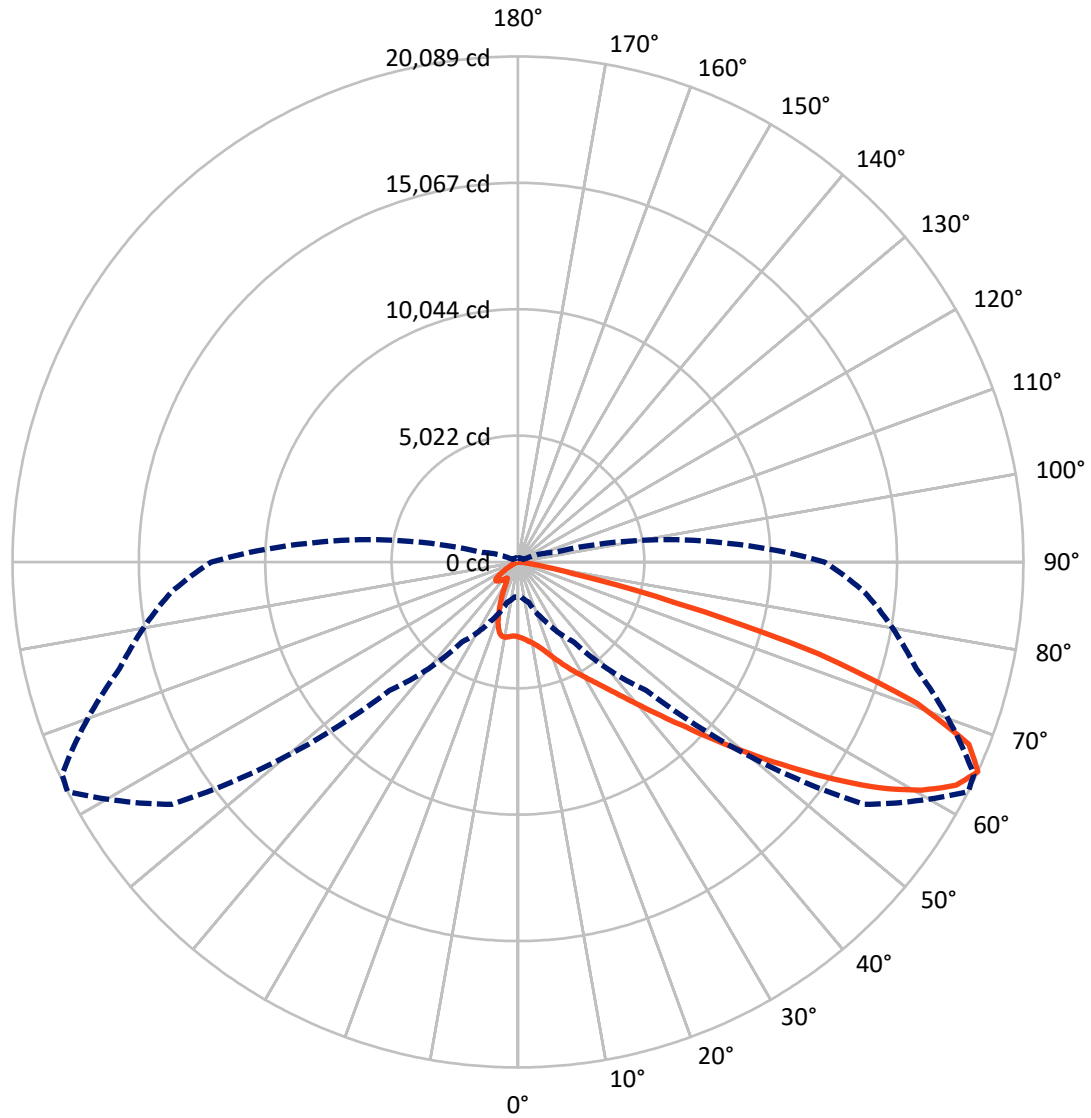
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	3543.2	0.0	3543.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	20561.8	0.0	20561.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	24105.0	0.0	24105.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.3	1.2
10°-20°	777.7	3.2
20°-30°	1354.2	5.6
30°-40°	2440.9	10.1
40°-50°	4841.0	20.1
50°-60°	6594.3	27.4
60°-70°	5263.5	21.8
70°-80°	2381.9	9.9
80°-90°	171.2	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°	24105.0	100.0
0°-180°	24105.0	100.0

Coefficient of Utilization



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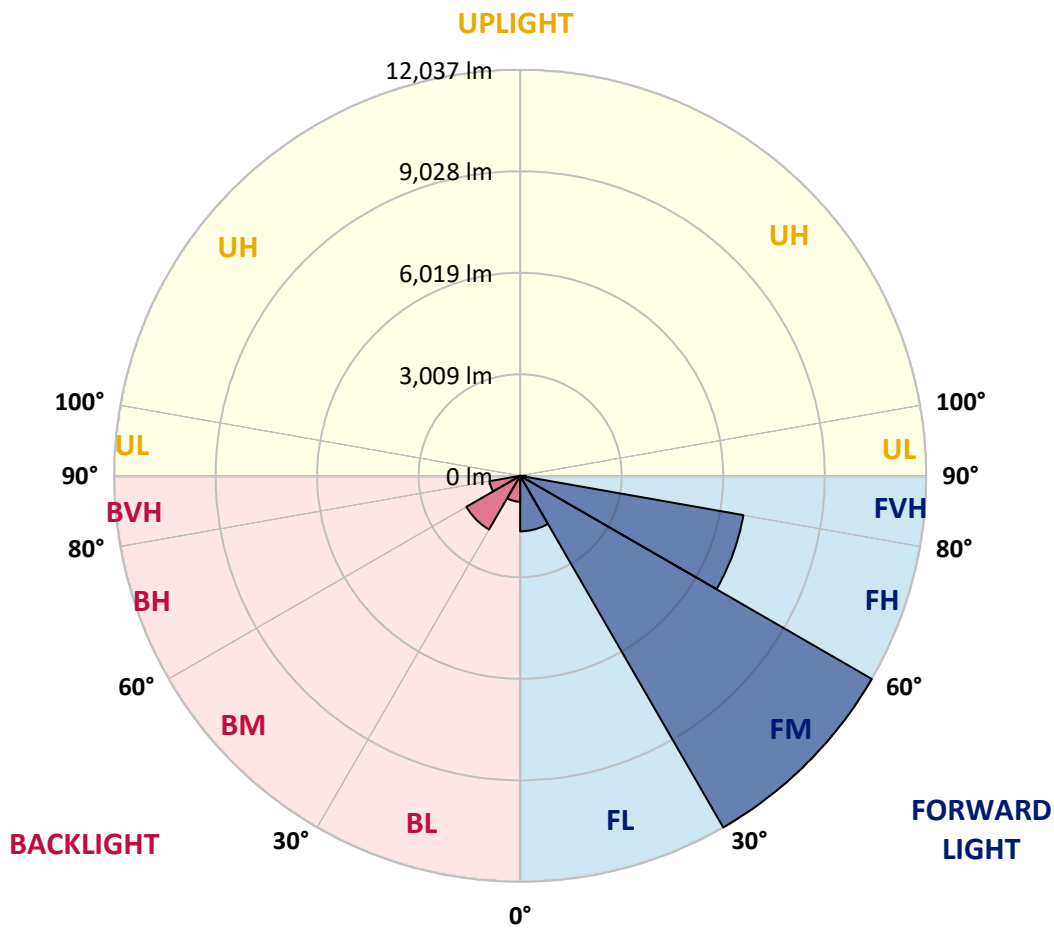
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1645.5	6.8			
FM (30°-60°)	12037.4	49.9			
FH (60°-80°)	6720.4	27.9			G3/7500
FVH (80°-90°)	158.5	0.7			G2/225
BL (0°-30°)	766.8	3.2	B2/1000		
BM (30°-60°)	1838.7	7.6	B2/2500		
BH (60°-80°)	925.0	3.8	B2/1000		G2/1000
BVH (80°-90°)	12.7	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°	2975.0	2975.0	2975.0	2975.0	2975.0	2975.0	2975.0	2975.0	2975.0	2975.0
2.5°	3044.7	3036.4	3048.0	3043.0	3039.7	3033.1	3029.7	3026.4	3019.8	3014.8
5°	3053.0	3048.0	3059.6	3069.5	3079.5	3089.4	3094.4	3101.0	3094.4	3081.1
7.5°	2983.3	2980.0	3004.9	3034.7	3079.5	3117.6	3159.1	3182.3	3184.0	3179.0
10°	2978.3	2970.0	2994.9	3031.4	3089.4	3157.4	3230.4	3280.1	3286.8	3308.3
12.5°	3056.3	3048.0	3082.8	3122.6	3182.3	3253.6	3343.2	3412.8	3422.8	3452.6
15°	3187.3	3175.7	3215.5	3266.9	3343.2	3424.4	3518.9	3582.0	3590.2	3626.7
17.5°	3339.8	3328.2	3374.7	3429.4	3512.3	3623.4	3732.9	3802.5	3812.5	3835.7
20°	3535.5	3520.6	3557.1	3606.8	3694.7	3827.4	3958.4	4057.9	4056.2	4056.2
22.5°	3762.7	3739.5	3771.0	3810.8	3893.7	4054.6	4228.7	4346.4	4346.4	4300.0
25°	4006.5	3983.3	4018.1	4054.6	4127.5	4310.0	4513.9	4659.9	4666.5	4586.9
27.5°	4311.6	4281.8	4308.3	4351.4	4394.5	4580.3	4822.4	4991.5	4994.8	4872.1
30°	4898.7	4814.1	4731.2	4684.7	4704.6	4888.7	5147.4	5334.8	5351.4	5182.2
32.5°	5973.2	5956.7	5664.8	5283.4	5084.4	5220.4	5510.6	5736.1	5746.1	5528.8
35°	7643.2	7623.3	7154.0	6427.6	5779.2	5664.8	5951.7	6218.7	6212.0	5966.6
37.5°	9636.5	9618.2	8999.7	8027.9	6978.2	6336.4	6520.5	6800.7	6842.2	6520.5
40°	11339.5	11271.5	10880.2	9943.2	8570.2	7450.8	7329.7	7515.5	7558.6	7177.2
42.5°	12629.7	12571.7	12372.7	11787.3	10497.1	9099.2	8283.3	8354.6	8402.7	7945.0
45°	13298.0	13284.7	13364.3	13309.6	12460.6	11122.3	9646.4	9349.6	9367.8	8795.7
47.5°	13392.5	13385.9	13749.1	14263.1	14148.7	13404.1	11395.9	10590.0	10525.3	9755.9
50°	12835.3	12822.1	13518.6	14482.0	15276.4	15321.1	13382.6	11987.9	11845.3	10749.2
52.5°	11056.0	11052.7	12196.9	13800.5	15672.7	16999.4	15346.0	13523.5	13284.7	11800.6
55°	8507.1	8568.5	9880.2	11775.7	14949.7	17807.0	17108.8	15228.3	14861.8	12858.6
57.5°	6026.3	6115.9	7412.7	9100.8	12707.6	17329.4	18301.1	16936.3	16541.7	13913.2
60°	3237.0	3316.6	4615.1	6629.9	9454.0	15548.3	18929.6	18418.9	18045.8	14914.9
62.5°	1928.6	1955.2	2492.4	4280.1	6394.5	11878.5	18662.6	19548.2	19241.4	15755.6
65°	1384.7	1389.7	1660.0	2613.5	3882.1	7217.0	16790.4	20088.8	19994.3	16389.1
67.5°	1165.8	1162.5	1275.2	1736.3	2645.0	3615.1	12868.5	19324.3	19725.6	16790.4
70°	1000.0	1004.9	1137.6	1271.9	1988.3	2046.4	6397.8	16825.2	17680.9	16896.5
72.5°	744.6	761.2	883.9	1159.2	1500.8	1407.9	2208.9	12475.5	14022.7	15919.8
75°	525.7	534.0	621.9	975.1	1119.4	1024.8	1127.7	6449.2	8432.5	12205.2
77.5°	404.6	419.6	471.0	681.6	1102.8	719.7	689.9	2232.1	3429.4	7372.9
80°	218.9	245.4	340.0	492.5	774.4	509.1	341.6	888.9	1162.5	3447.6
82.5°	112.8	126.0	237.1	354.9	441.1	444.4	169.1	369.8	479.3	1064.6
85°	44.8	54.7	159.2	195.7	227.2	218.9	76.3	149.2	172.5	295.2
87.5°	9.9	16.6	58.0	44.8	43.1	46.4	18.2	34.8	33.2	34.8
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°
2975.0	0°	2975.0	2975.0	2975.0	2975.0	2975.0	2975.0	2975.0	2975.0	2975.0	2975.0
2994.9	2.5°	2993.3	2986.6	2968.4	2948.5	2925.3	2912.0	2903.7	2902.0	2890.4	2882.1
3061.2	5°	3043.0	3036.4	3001.5	2960.1	2915.3	2880.5	2847.3	2817.5	2774.4	2766.1
3157.4	7.5°	3142.5	3124.3	3067.9	3011.5	2926.9	2825.8	2703.0	2562.1	2436.1	2397.9
3285.1	10°	3265.2	3240.3	3169.0	3069.5	2882.1	2606.9	2310.0	2034.7	1815.9	1754.5
3436.0	12.5°	3404.5	3383.0	3288.4	3104.4	2694.8	2195.6	1741.2	1399.6	1187.4	1134.3
3596.9	15°	3570.3	3538.8	3407.8	3051.3	2359.8	1668.3	1195.6	993.3	917.0	907.1
3781.0	17.5°	3746.1	3694.7	3514.0	2860.6	1908.7	1185.7	923.7	865.6	832.5	822.5
3966.7	20°	3907.0	3840.7	3577.0	2572.0	1426.1	923.7	827.5	789.4	759.5	747.9
4152.4	22.5°	4067.8	3973.3	3577.0	2179.0	1069.6	819.2	759.5	724.7	689.9	674.9
4351.4	25°	4235.3	4109.3	3514.0	1741.2	860.7	751.2	694.8	656.7	626.8	608.6
4540.5	27.5°	4397.8	4223.7	3369.7	1326.6	766.1	691.5	635.1	598.7	570.5	557.2
4746.1	30°	4552.1	4336.5	3167.4	1006.6	704.8	633.5	580.4	548.9	520.7	507.4
5013.1	32.5°	4761.0	4479.1	2951.8	825.8	651.7	578.8	530.7	500.8	475.9	466.0
5359.7	35°	5051.2	4689.7	2766.1	810.9	606.9	534.0	485.9	457.7	432.8	424.5
5807.4	37.5°	5462.5	5029.7	2668.2	910.4	570.5	494.2	449.4	419.6	396.3	389.7
6376.2	40°	5969.9	5490.7	2721.3	1009.9	545.6	459.4	416.2	386.4	366.5	358.2
7029.6	42.5°	6571.9	6059.5	3014.8	1086.2	529.0	429.5	384.7	351.6	338.3	335.0
7770.9	45°	7263.4	6684.7	3464.2	1167.5	502.5	401.3	353.2	328.3	318.4	316.7
8576.8	47.5°	8049.4	7371.2	3984.9	1268.6	475.9	374.8	328.3	311.8	303.5	300.2
9417.6	50°	8828.9	8062.7	4520.6	1325.0	454.4	349.9	308.4	295.2	288.5	286.9
10306.4	52.5°	9644.7	8774.1	4953.4	1271.9	436.1	330.0	291.9	281.9	275.3	273.6
11125.6	55°	10422.5	9349.6	5028.0	1079.6	399.7	310.1	273.6	268.6	260.4	260.4
11956.4	57.5°	11092.5	9638.1	4500.7	792.7	363.2	280.3	255.4	250.4	243.8	242.1
12706.0	60°	11707.7	9555.2	3474.2	534.0	323.4	250.4	232.2	228.8	222.2	213.9
13357.7	62.5°	12054.3	9190.4	2376.4	348.2	283.6	218.9	205.6	204.0	189.0	172.5
13840.3	65°	12185.3	8440.8	1482.5	253.7	237.1	187.4	177.4	174.1	152.6	134.3
14113.9	67.5°	12070.9	7207.0	747.9	200.7	187.4	155.9	145.9	145.9	131.0	114.4
14097.3	70°	11613.2	5402.8	315.1	160.9	144.3	119.4	119.4	126.0	111.1	92.9
13366.0	72.5°	10619.8	3635.0	167.5	122.7	107.8	84.6	97.8	102.8	87.9	69.6
10939.9	75°	8442.5	2217.2	116.1	91.2	68.0	59.7	74.6	77.9	59.7	46.4
7500.5	77.5°	5774.2	1273.6	77.9	58.0	43.1	34.8	51.4	48.1	31.5	21.6
2892.1	80°	2535.6	530.7	44.8	26.5	16.6	13.3	18.2	13.3	9.9	6.6
396.3	82.5°	296.8	124.4	16.6	9.9	6.6	3.3	1.7	0.0	0.0	0.0
121.1	85°	61.4	14.9	8.3	3.3	1.7	0.0	0.0	0.0	0.0	0.0
21.6	87.5°	11.6	3.3	1.7	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>
2975.0
2890.4
2762.7
2379.7
1731.3
1119.4
897.1
817.5
741.3
666.6
602.0
557.2
509.1
466.0
424.5
388.0
356.5
335.0
315.1
300.2
286.9
273.6
258.7
240.5
212.3
169.1
132.7
112.8
91.2
69.6
44.8
23.2
6.6
0.0
0.0
0.0
0.0

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