

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: P941846

Luminaire Tested: **GALN-SB5C-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5C-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25800 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

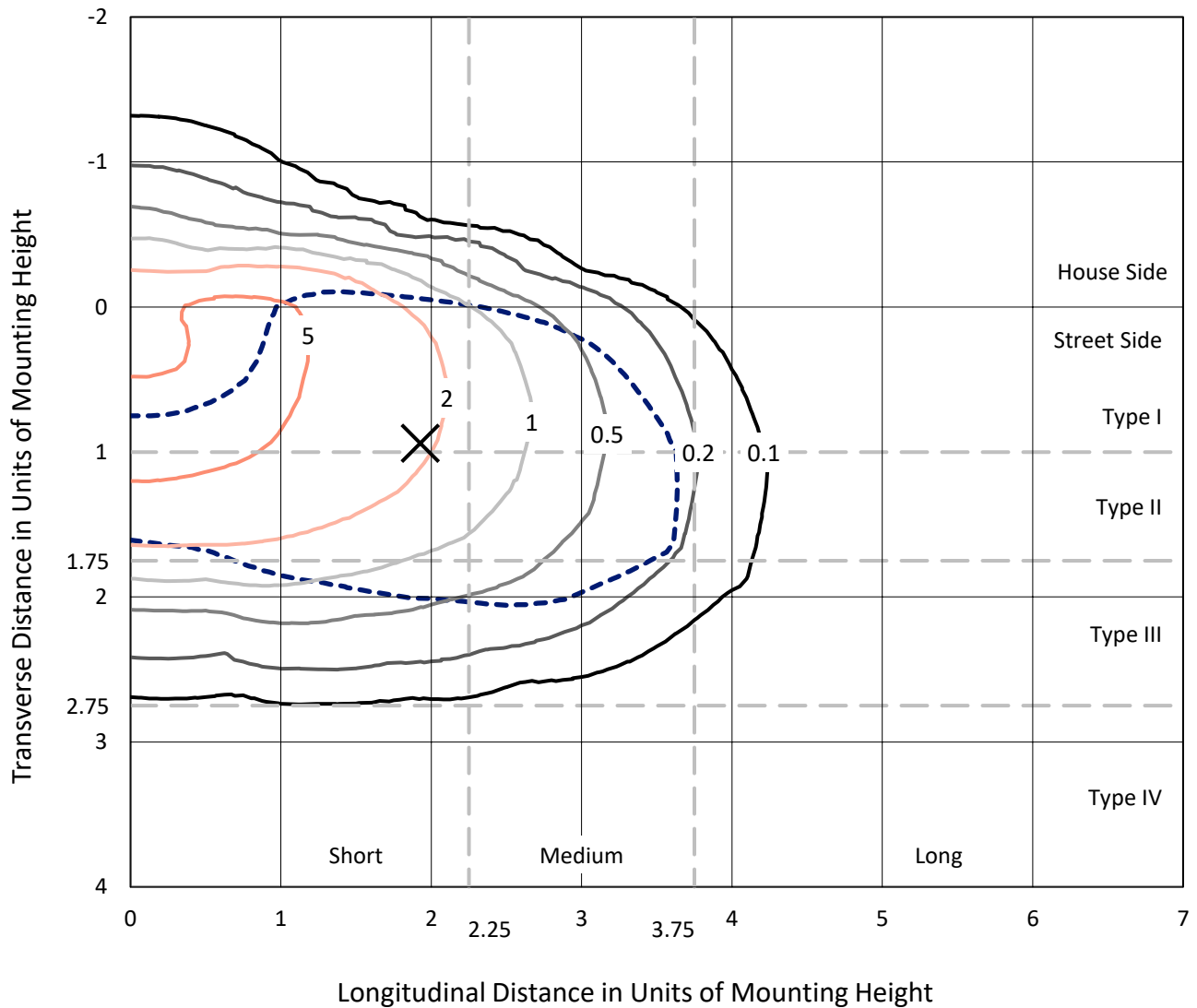
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

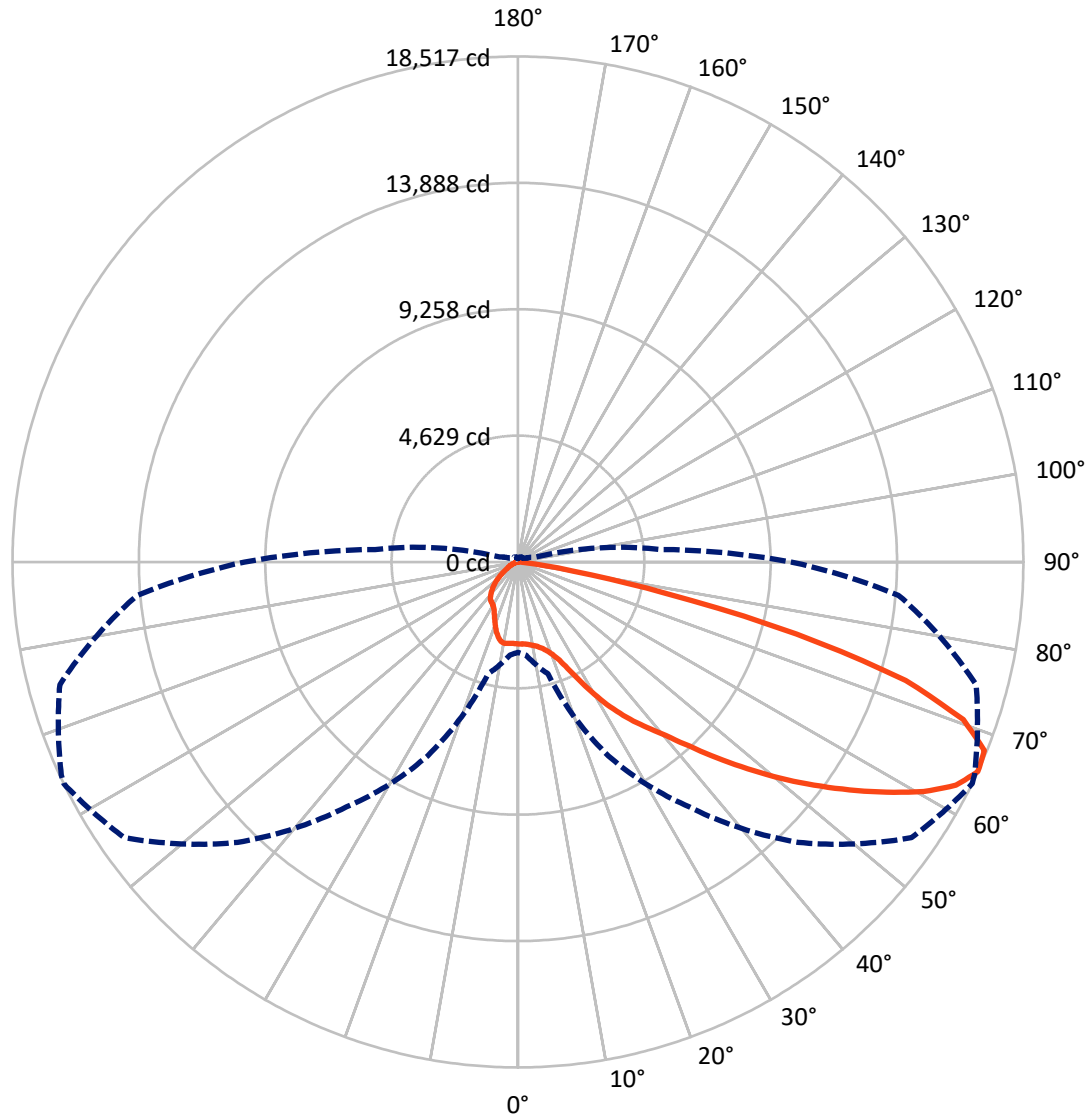
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3450.3	0.0	3450.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	22349.8	0.0	22349.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	25800.0	0.0	25800.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.9	1.1
10°-20°	750.9	2.9
20°-30°	1422.9	5.5
30°-40°	2879.3	11.2
40°-50°	4904.9	19.0
50°-60°	6670.3	25.9
60°-70°	6263.7	24.3
70°-80°	2509.5	9.7
80°-90°	121.6	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°	25800.0	100.0
0°-180°	25800.0	100.0

Coefficient of Utilization



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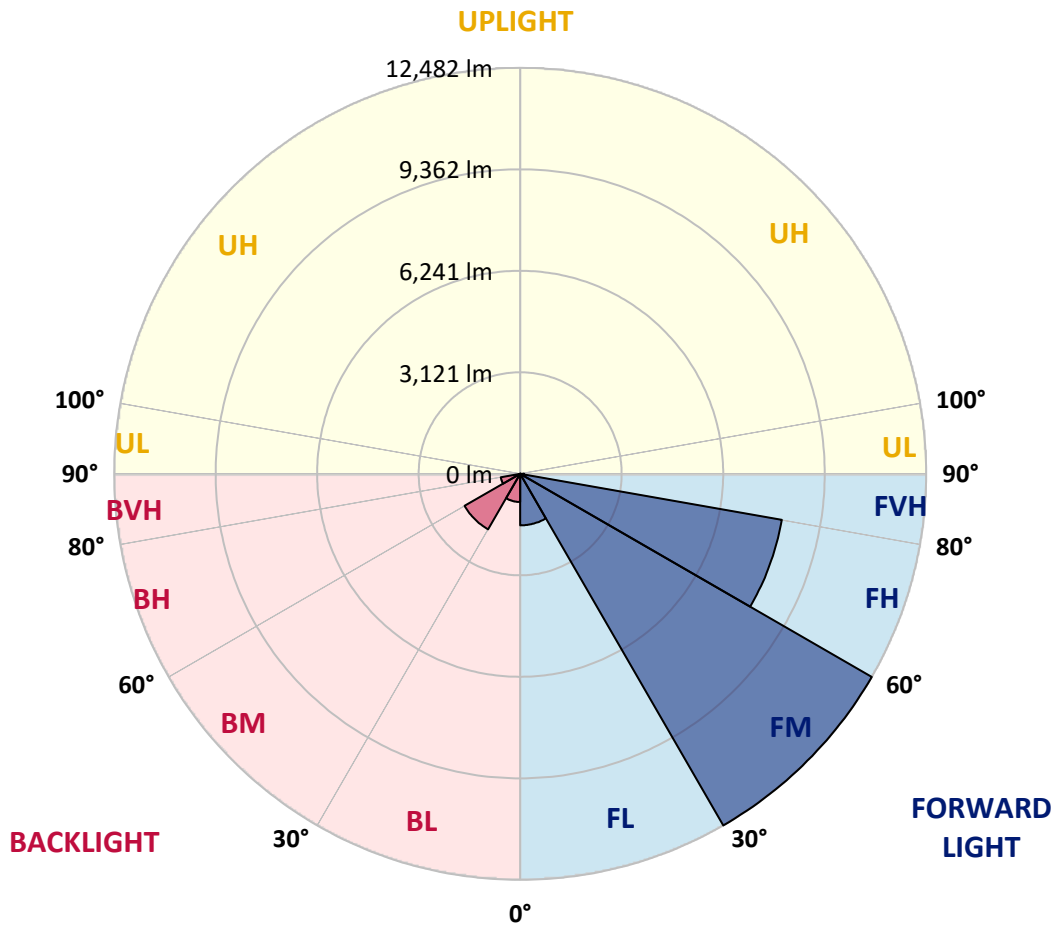
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1584.4	6.1			
FM (30°-60°)	12482.0	48.4			
FH (60°-80°)	8167.7	31.7			G4/12000
FVH (80°-90°)	115.6	0.4			G2/225
BL (0°-30°)	866.3	3.4	B2/1000		
BM (30°-60°)	1972.5	7.6	B2/2500		
BH (60°-80°)	605.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.9	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8
2.5°	2990.4	3011.2	3006.0	3000.8	2999.1	3002.5	3004.3	3002.5	3002.5	3002.5
5°	2933.4	2950.7	2950.7	2962.8	2980.1	3000.8	3016.4	3019.8	3023.3	3028.5
7.5°	2824.4	2838.2	2848.6	2888.4	2931.6	2987.0	3033.7	3057.9	3061.3	3080.4
10°	2750.0	2767.3	2784.6	2826.1	2888.4	2971.4	3051.0	3109.8	3118.4	3163.4
12.5°	2746.6	2763.9	2786.3	2831.3	2904.0	2992.2	3089.0	3173.8	3189.3	3255.1
15°	2782.9	2803.6	2824.4	2879.7	2957.6	3064.8	3168.6	3274.1	3289.6	3383.0
17.5°	2857.3	2884.9	2900.5	2955.8	3038.9	3158.2	3294.8	3415.9	3429.7	3538.7
20°	3004.3	3037.1	3042.3	3087.3	3168.6	3296.6	3459.1	3609.6	3626.9	3751.4
22.5°	3308.7	3355.4	3313.9	3336.3	3409.0	3537.0	3713.4	3903.6	3927.9	4069.7
25°	3844.8	3910.6	3803.3	3765.3	3796.4	3929.6	4151.0	4391.4	4419.1	4533.2
27.5°	4898.1	4813.4	4650.8	4491.7	4398.3	4474.4	4723.5	5020.9	5055.5	5166.2
30°	6055.2	5980.9	5761.2	5408.4	5187.0	5174.9	5404.9	5737.0	5776.8	5882.3
32.5°	7214.0	7143.1	6904.5	6470.3	6086.4	5896.1	6055.2	6423.6	6444.4	6511.8
35°	8353.8	8281.2	8042.5	7598.0	7125.8	6693.4	6662.3	7077.4	7084.3	7155.2
37.5°	9500.5	9440.0	9185.8	8749.9	8284.7	7687.9	7399.1	7696.6	7705.2	7774.4
40°	10318.6	10344.6	10169.9	9832.6	9433.1	8781.0	8225.8	8355.6	8303.7	8419.6
42.5°	11020.8	11072.7	10920.5	10751.0	10519.3	9945.0	9249.8	9227.3	9144.2	9206.5
45°	11627.9	11671.2	11534.5	11494.7	11489.5	11086.6	10368.8	10233.9	10118.0	10105.9
47.5°	11851.0	11934.0	11992.9	12126.0	12385.5	12216.0	11525.9	11316.6	11186.9	11091.7
50°	11935.8	12024.0	12224.6	12612.0	13226.0	13298.7	12677.8	12442.5	12283.4	12110.5
52.5°	11821.6	11979.0	12248.8	12900.9	13791.6	14166.9	13783.0	13577.1	13395.5	13113.6
55°	11148.8	11306.2	11857.9	12897.4	14073.5	14775.7	14827.6	14736.0	14531.9	14087.4
57.5°	9730.6	9964.1	10837.5	12458.1	14068.3	15299.8	15851.5	15917.3	15689.0	15052.5
60°	7765.8	8082.3	9147.7	11484.4	13634.2	15583.4	16749.2	17077.8	16835.7	16003.7
62.5°	5418.7	5785.4	6793.8	9958.9	12641.4	15379.4	17404.7	18011.8	17828.4	16854.7
65°	3305.2	3422.8	4235.7	7836.7	10953.4	14524.9	17607.0	18516.8	18456.3	17375.3
67.5°	2201.7	2300.3	2533.8	5373.8	8502.6	12817.9	17122.8	18428.6	18445.9	17290.5
70°	1326.6	1411.3	1563.5	3125.3	5510.4	10145.7	15623.2	17304.4	17404.7	16157.7
72.5°	546.5	603.6	742.0	1416.5	2853.8	6439.2	12440.8	14857.0	15090.5	13585.8
75°	309.6	339.0	435.9	710.9	1238.4	3000.8	7535.7	10546.9	10891.1	9363.9
77.5°	205.8	219.7	281.9	460.1	697.0	1023.9	3220.5	5494.9	6152.1	5114.3
80°	138.4	150.5	193.7	307.9	453.1	439.3	1025.6	2035.7	2504.4	1757.2
82.5°	93.4	95.1	138.4	202.4	287.1	212.7	302.7	633.0	795.6	508.5
85°	53.6	51.9	102.0	117.6	128.0	88.2	91.7	190.3	249.1	214.5
87.5°	6.9	10.4	39.8	31.1	17.3	19.0	19.0	32.9	48.4	51.9
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°
3000.8	0°	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8
3004.3	2.5°	3004.3	3002.5	2997.3	2992.2	2980.1	2973.1	2976.6	2973.1	2971.4	2973.1
3026.8	5°	3026.8	3021.6	3007.7	2990.4	2966.2	2936.8	2917.8	2890.1	2864.2	2848.6
3087.3	7.5°	3087.3	3082.1	3063.1	3014.6	2936.8	2814.0	2701.6	2603.0	2528.6	2485.4
3184.1	10°	3184.1	3175.5	3146.1	3038.9	2834.8	2566.7	2343.6	2158.5	2037.4	1980.4
3298.3	12.5°	3298.3	3287.9	3236.0	3016.4	2641.1	2222.5	1914.6	1708.8	1596.4	1546.2
3429.7	15°	3433.2	3419.4	3317.3	2909.1	2359.1	1842.0	1560.1	1406.1	1333.5	1288.5
3597.5	17.5°	3601.0	3576.8	3377.9	2748.3	2053.0	1551.4	1342.1	1226.3	1162.3	1119.0
3817.2	20°	3818.9	3779.1	3426.3	2556.3	1771.1	1368.1	1195.1	1098.3	1049.9	1011.8
4128.5	22.5°	4123.3	4066.2	3485.1	2348.8	1572.2	1241.8	1086.2	1015.3	975.5	932.2
4562.6	25°	4500.3	4432.9	3557.7	2156.8	1435.5	1132.9	1006.6	947.8	901.1	850.9
5131.6	27.5°	5027.9	4906.8	3644.2	1999.4	1317.9	1039.5	934.0	868.2	814.6	773.1
5776.8	30°	5615.9	5417.0	3720.3	1904.3	1210.7	953.0	838.8	773.1	723.0	693.6
6356.2	32.5°	6172.8	5903.0	3770.5	1862.7	1113.8	854.4	735.1	664.2	626.1	617.5
6923.5	35°	6698.6	6342.3	3765.3	1823.0	1027.4	755.8	633.0	560.4	531.0	536.2
7534.0	37.5°	7304.0	6811.1	3729.0	1760.7	956.5	665.9	544.8	480.8	454.9	456.6
8276.0	40°	8007.9	7352.4	3706.5	1643.1	878.6	582.9	472.2	420.3	401.3	394.3
9057.8	42.5°	8758.6	7876.5	3709.9	1509.9	781.8	508.5	422.0	378.8	361.5	356.3
9927.7	45°	9512.6	8376.3	3715.1	1371.6	679.7	451.4	385.7	349.4	339.0	332.1
10809.8	47.5°	10221.8	8801.8	3618.3	1222.8	579.4	408.2	356.3	332.1	323.4	314.8
11695.4	50°	10882.5	9085.4	3384.8	1049.9	499.8	373.6	333.8	316.5	307.9	299.2
12497.9	52.5°	11396.2	9130.4	2999.1	871.7	444.5	347.6	320.0	304.4	294.0	285.4
13146.5	55°	11624.5	8848.5	2450.8	705.7	401.3	325.2	306.1	290.6	278.5	269.8
13656.7	57.5°	11565.6	8255.2	1911.2	567.3	359.8	302.7	288.8	278.5	264.6	250.8
14070.1	60°	11276.8	7461.4	1440.7	472.2	321.7	278.5	269.8	261.2	242.1	221.4
14229.2	62.5°	10777.0	6463.4	1027.4	390.9	280.2	250.8	247.3	240.4	212.7	174.7
13994.0	65°	10012.5	5251.0	691.8	325.2	240.4	219.7	221.4	209.3	173.0	129.7
13132.6	67.5°	8895.2	3839.7	442.8	266.4	200.6	183.3	185.1	178.1	147.0	110.7
11499.9	70°	7471.8	2542.5	288.8	202.4	160.9	141.8	152.2	153.9	124.5	89.9
8826.0	72.5°	5477.6	1501.3	202.4	150.5	117.6	98.6	124.5	128.0	100.3	67.5
5309.8	75°	3121.9	712.6	152.2	109.0	72.6	69.2	96.9	96.9	69.2	45.0
2298.6	77.5°	1311.0	297.5	107.2	70.9	41.5	39.8	65.7	60.5	34.6	20.8
560.4	80°	378.8	133.2	57.1	34.6	17.3	15.6	25.9	19.0	8.6	3.5
212.7	82.5°	148.7	58.8	22.5	13.8	6.9	6.9	3.5	0.0	0.0	0.0
121.1	85°	88.2	24.2	10.4	5.2	1.7	0.0	0.0	0.0	0.0	0.0
25.9	87.5°	22.5	5.2	3.5	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>
3000.8
2980.1
2852.1
2487.1
1975.2
1541.0
1290.3
1115.6
1004.9
925.3
845.8
764.5
688.4
622.6
536.2
463.5
392.6
354.6
332.1
314.8
299.2
283.6
268.1
249.1
217.9
171.2
126.3
105.5
86.5
64.0
41.5
20.8
3.5
0.0
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