

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: P941544

Luminaire Tested: **GALN-SB5A-850-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-850-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15827 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

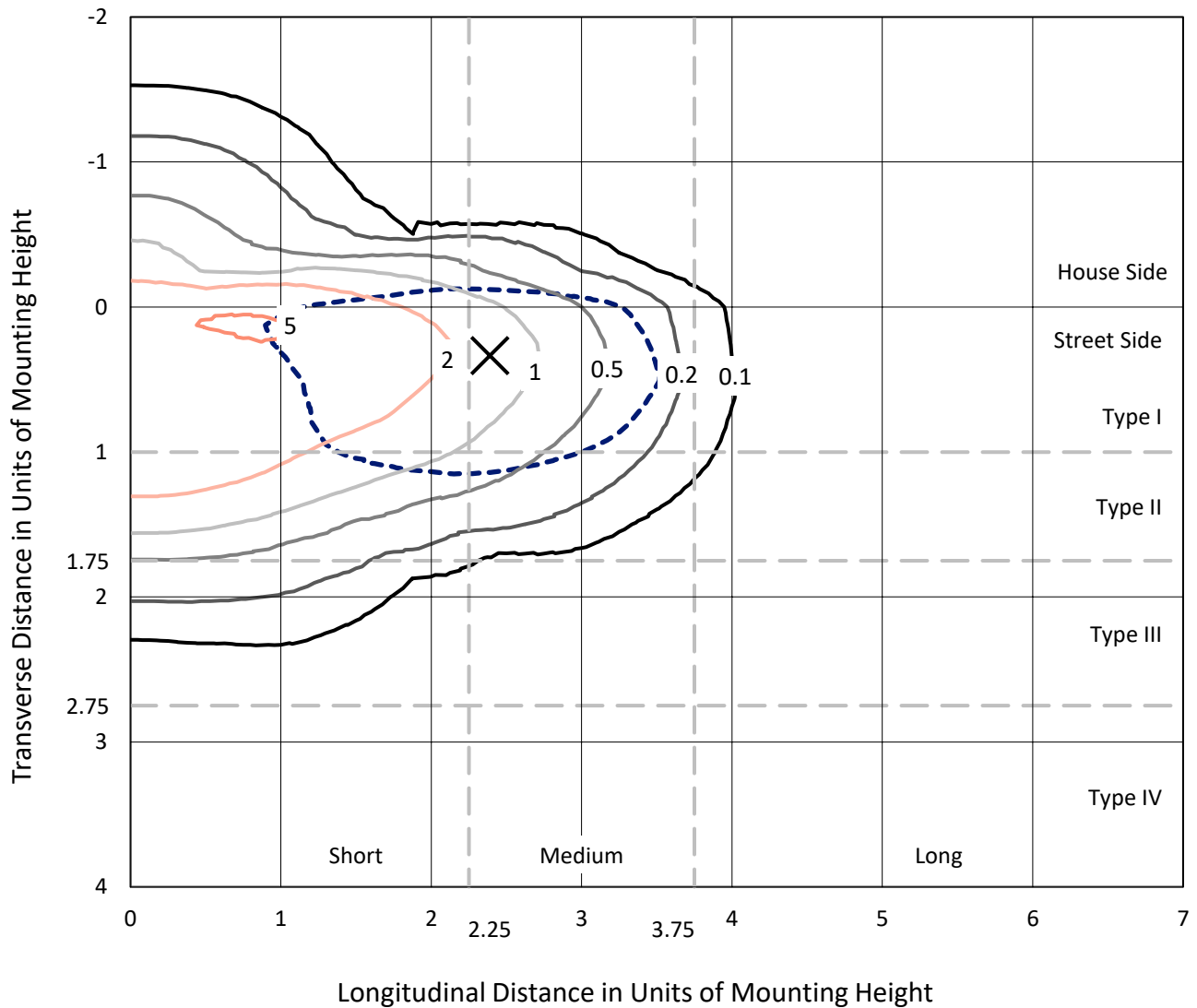
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

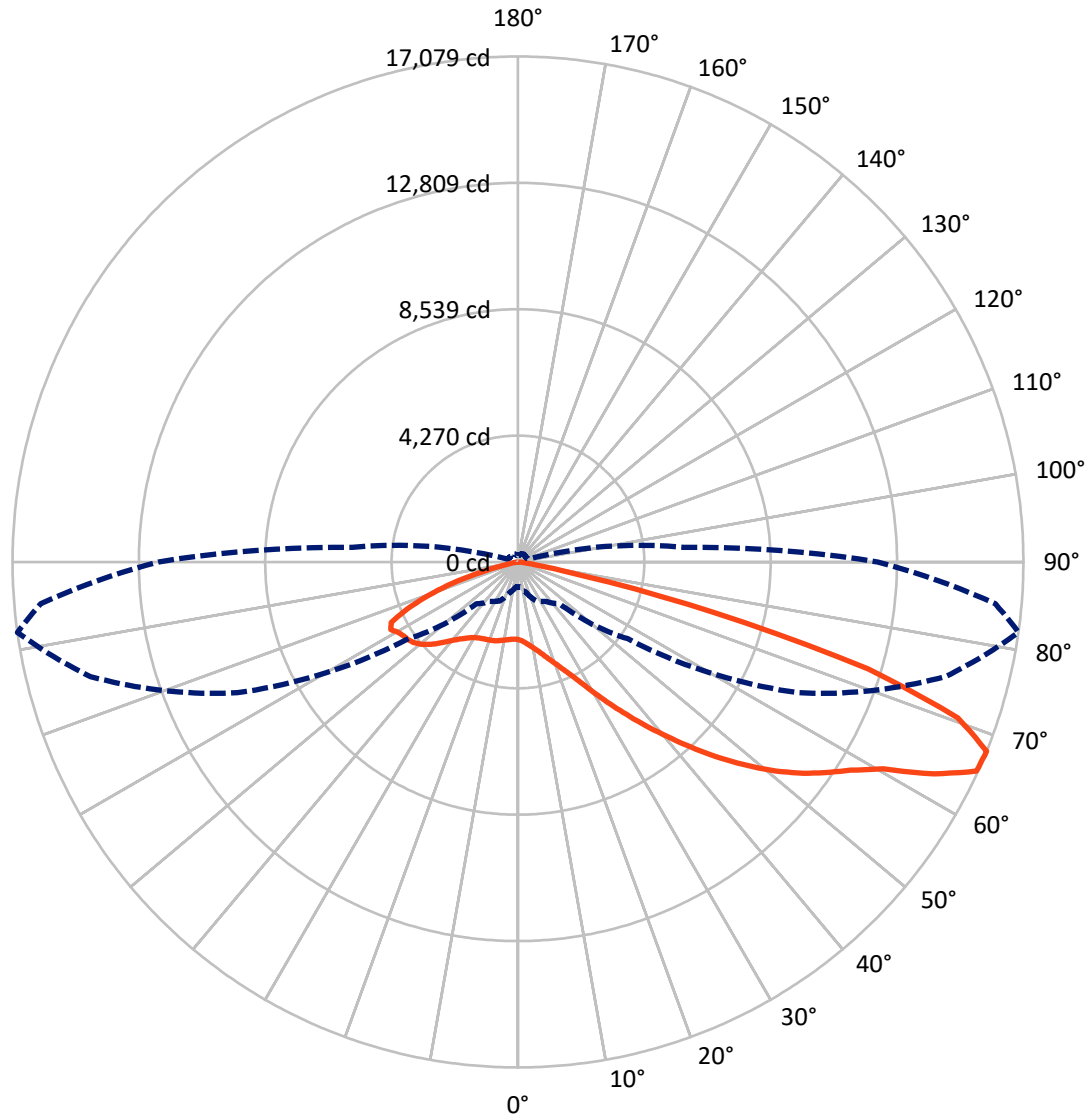
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2866.9	0.0	2866.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	12960.1	0.0	12960.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	15827.0	0.0	15827.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.6	1.5
10°-20°	607.0	3.8
20°-30°	972.3	6.1
30°-40°	1719.3	10.9
40°-50°	3012.3	19.0
50°-60°	4017.6	25.4
60°-70°	3740.2	23.6
70°-80°	1435.5	9.1
80°-90°	89.2	0.6
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°	15827.0	100.0
0°-180°	15827.0	100.0

Coefficient of Utilization



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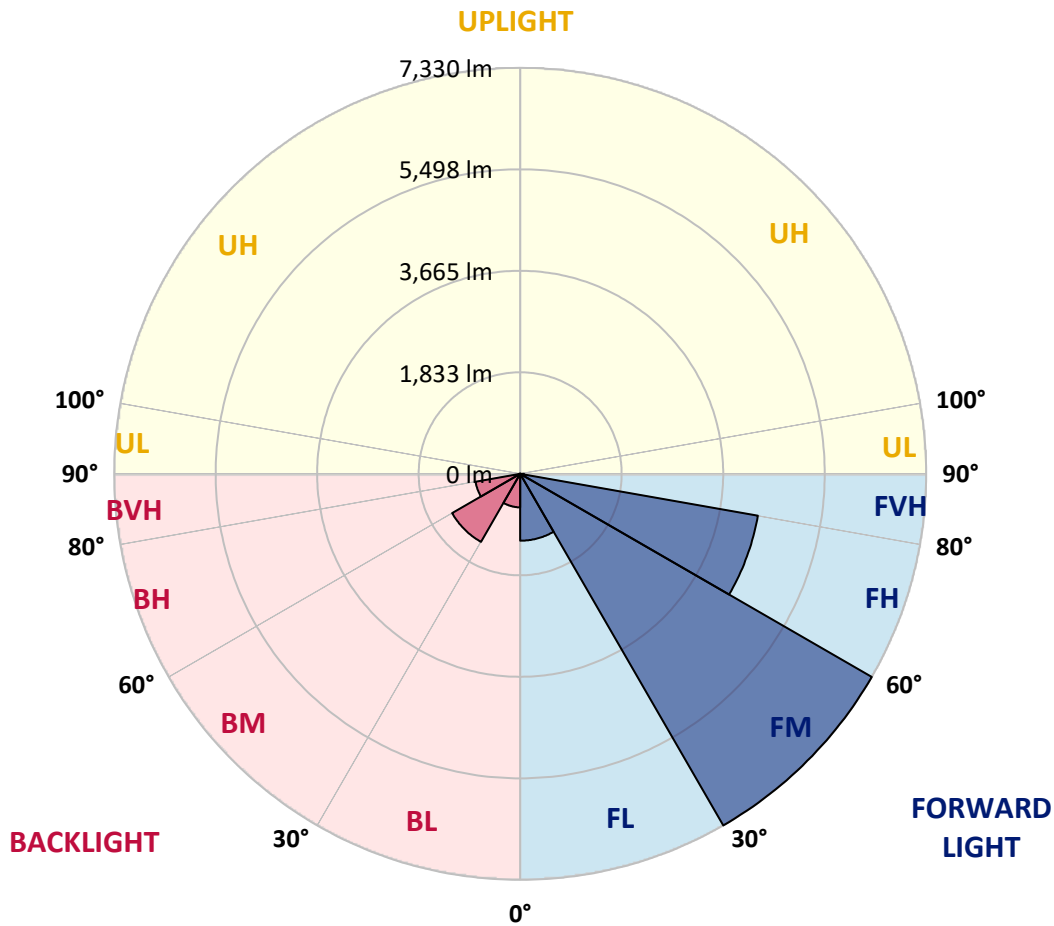
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1207.4	7.6			
FM (30°-60°)	7330.4	46.3			
FH (60°-80°)	4357.4	27.5			G2/5000
FVH (80°-90°)	64.8	0.4			G1/100
BL (0°-30°)	605.5	3.8	B2/1000		
BM (30°-60°)	1418.8	9.0	B2/2500		
BH (60°-80°)	818.3	5.2	B2/1000		G2/1000
BVH (80°-90°)	24.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0
2.5°	2771.3	2787.2	2778.1	2773.6	2765.6	2754.2	2745.1	2716.6	2687.0	2667.6
5°	2827.1	2843.1	2841.9	2846.5	2852.2	2855.6	2853.3	2821.4	2779.2	2746.2
7.5°	2779.2	2797.5	2812.3	2835.1	2875.0	2917.1	2937.6	2930.8	2887.5	2841.9
10°	2643.6	2663.0	2698.3	2751.9	2836.2	2927.4	3003.7	3039.1	3011.7	2961.6
12.5°	2395.2	2414.6	2484.1	2600.3	2741.6	2900.0	3045.9	3140.5	3147.3	3097.2
15°	2116.1	2135.4	2209.5	2355.4	2570.7	2824.8	3068.7	3247.6	3308.0	3264.7
17.5°	1942.9	1959.9	2015.8	2133.2	2357.6	2674.4	3060.7	3361.5	3499.4	3465.2
20°	1890.4	1905.3	1931.5	2013.5	2200.4	2518.3	3008.3	3468.6	3705.7	3686.3
22.5°	1946.3	1959.9	1967.9	2004.4	2121.8	2415.7	2942.2	3578.0	3945.0	3947.2
25°	2075.0	2088.7	2079.6	2102.4	2153.7	2383.8	2917.1	3706.8	4245.8	4270.9
27.5°	2287.0	2288.1	2266.5	2265.3	2273.3	2431.7	2943.3	3844.7	4625.2	4672.0
30°	2712.0	2694.9	2611.7	2521.7	2480.7	2575.3	3016.3	4007.6	5073.1	5156.3
32.5°	3367.2	3342.2	3189.5	2974.1	2757.6	2806.6	3147.3	4193.4	5560.8	5711.2
35°	4078.3	4071.4	3911.9	3591.7	3213.4	3135.9	3360.4	4437.2	6092.9	6332.2
37.5°	4739.2	4735.8	4644.6	4267.4	3807.1	3595.1	3702.2	4756.3	6662.7	7009.1
40°	5343.1	5353.4	5262.2	4924.9	4461.2	4184.3	4167.2	5150.6	7296.2	7746.3
42.5°	5865.0	5876.4	5784.1	5534.6	5107.3	4836.1	4738.1	5633.7	7915.0	8538.3
45°	6219.4	6290.1	6276.4	6077.0	5770.4	5489.0	5424.0	6239.9	8620.3	9378.1
47.5°	6319.7	6384.6	6487.2	6514.5	6327.7	6050.8	6128.3	6970.3	9333.7	10219.1
50°	6072.4	6132.8	6345.9	6629.6	6759.5	6674.1	6813.1	7753.2	10064.1	11057.7
52.5°	5584.7	5646.2	5915.2	6364.1	6894.0	7162.9	7500.2	8524.6	10771.7	11852.0
55°	4879.4	4944.3	5289.6	5797.8	6637.6	7364.6	8073.4	9294.9	11420.1	12566.4
57.5°	3919.9	3967.8	4326.7	5037.7	5992.7	7164.1	8496.1	10135.9	12030.9	13268.4
60°	2554.8	2596.9	3014.0	3807.1	4923.8	6494.0	8580.5	11073.7	12842.2	14181.1
62.5°	1699.0	1727.5	1974.8	2557.0	3467.5	5207.5	8087.1	11822.4	14031.9	15769.6
65°	1165.7	1194.2	1441.5	1847.1	2240.3	3444.7	6668.4	11723.2	15109.8	17031.0
67.5°	831.8	855.8	1065.4	1448.3	1621.5	2001.0	4520.4	10456.1	14954.8	17078.9
70°	596.0	609.6	782.8	1128.1	1288.8	1202.2	2513.7	7997.0	13094.0	15770.7
72.5°	417.1	421.6	543.5	859.2	1038.1	877.4	1196.5	5331.7	9903.4	12378.4
75°	282.6	288.3	365.8	630.1	833.0	670.0	633.6	2859.0	5813.7	6851.8
77.5°	173.2	175.5	235.9	430.7	623.3	510.5	407.9	1211.3	2249.4	2208.4
80°	98.0	98.0	150.4	267.8	425.0	329.3	286.0	515.1	712.2	625.6
82.5°	54.7	55.8	109.4	166.4	281.5	194.9	157.3	238.2	307.7	272.3
85°	22.8	25.1	67.2	78.6	134.5	96.9	63.8	100.3	114.0	101.4
87.5°	2.3	3.4	20.5	14.8	16.0	19.4	9.1	19.4	16.0	16.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2622.0	0°	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0
2660.7	2.5°	2639.1	2622.0	2578.7	2528.6	2462.5	2430.6	2387.3	2357.6	2332.6	2334.8
2726.8	5°	2690.4	2647.1	2550.2	2429.4	2279.0	2171.9	2057.9	1979.3	1915.5	1901.8
2818.0	7.5°	2761.0	2692.6	2522.9	2305.2	2051.1	1858.5	1686.5	1575.9	1497.3	1472.2
2928.5	10°	2852.2	2753.0	2487.5	2149.1	1783.3	1538.3	1353.7	1267.1	1213.6	1195.3
3058.4	12.5°	2958.2	2822.6	2440.8	1958.8	1507.6	1271.7	1154.3	1111.0	1093.9	1088.2
3218.0	15°	3091.5	2909.2	2370.2	1733.2	1274.0	1108.7	1058.6	1052.9	1055.2	1052.9
3409.4	17.5°	3249.9	3003.7	2255.1	1500.7	1116.7	1025.6	1007.3	1011.9	1017.6	1016.4
3623.6	20°	3423.1	3097.2	2108.1	1294.5	1009.6	966.3	956.0	960.6	965.2	962.9
3870.9	22.5°	3620.2	3197.4	1945.1	1133.8	937.8	911.6	900.2	901.3	901.3	896.8
4184.3	25°	3856.1	3308.0	1774.2	1019.9	883.1	862.6	848.9	844.4	837.5	823.9
4564.9	27.5°	4137.5	3425.3	1610.1	940.1	839.8	820.4	804.5	793.1	776.0	753.2
5021.8	30°	4454.3	3567.8	1471.1	890.0	805.6	786.3	768.0	750.9	725.9	697.4
5547.1	32.5°	4826.9	3720.5	1369.7	856.9	774.9	754.4	732.7	712.2	684.8	656.4
6137.4	35°	5271.3	3905.1	1310.4	834.1	750.9	723.6	699.7	676.9	656.4	631.3
6778.9	37.5°	5753.4	4101.1	1292.2	822.7	735.0	692.8	665.5	649.5	647.2	632.4
7472.9	40°	6280.9	4333.5	1305.9	815.9	717.9	663.2	633.6	630.1	635.8	609.6
8214.7	42.5°	6839.3	4609.3	1328.7	807.9	694.0	633.6	605.1	605.1	600.5	564.1
8998.7	45°	7443.2	4927.2	1351.5	788.5	665.5	603.9	582.3	574.3	554.9	519.6
9787.2	47.5°	8051.7	5250.8	1368.5	753.2	631.3	578.9	559.5	541.3	512.8	480.9
10560.9	50°	8629.5	5541.4	1350.3	700.8	592.5	554.9	534.4	509.4	478.6	456.9
11293.6	52.5°	9145.7	5793.2	1272.8	639.3	551.5	529.9	511.6	485.4	460.4	437.6
11954.5	55°	9594.6	5997.2	1136.1	581.1	515.1	508.2	490.0	456.9	422.8	403.4
12609.7	57.5°	10025.4	6152.2	965.2	533.3	482.0	484.3	456.9	427.3	395.4	374.9
13492.9	60°	10598.5	6359.6	792.0	488.8	446.7	453.5	423.9	402.2	362.4	336.2
15007.3	62.5°	11514.7	6682.1	629.0	434.2	405.7	407.9	395.4	369.2	321.3	290.6
16129.7	65°	12241.7	6563.5	495.7	374.9	358.9	362.4	362.4	333.9	282.6	247.3
16190.1	67.5°	12159.6	5620.0	395.4	316.8	314.5	316.8	324.8	300.8	250.7	222.2
14957.1	70°	11201.3	4470.3	316.8	263.2	273.5	267.8	290.6	274.6	225.6	197.1
11595.6	72.5°	9140.0	3220.2	241.6	217.6	209.7	218.8	262.1	247.3	188.0	156.1
6141.9	75°	5340.9	1718.4	180.0	172.1	151.6	182.3	232.5	210.8	143.6	115.1
1882.5	77.5°	1738.9	599.4	132.2	126.5	112.8	147.0	198.3	177.8	117.4	91.2
551.5	80°	466.1	181.2	90.0	83.2	72.9	109.4	157.3	141.3	84.3	59.3
237.0	82.5°	186.9	76.3	52.4	46.7	39.9	75.2	124.2	114.0	62.7	37.6
74.1	85°	60.4	25.1	19.4	14.8	18.2	46.7	74.1	77.5	44.4	19.4
11.4	87.5°	8.0	3.4	3.4	4.6	3.4	8.0	22.8	21.7	12.5	2.3
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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180°
2622.0
2312.1
1871.1
1447.2
1181.7
1084.8
1051.8
1014.2
961.7
894.5
821.6
750.9
695.1
657.5
629.0
631.3
610.8
564.1
518.5
479.7
453.5
435.3
401.1
372.6
332.7
288.3
243.9
217.6
193.7
152.7
111.7
87.7
58.1
37.6
14.8
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