

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: P943084

Luminaire Tested: **GALN-SB7B-927-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943084
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-SB7B-927-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 450mA 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: 17800 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

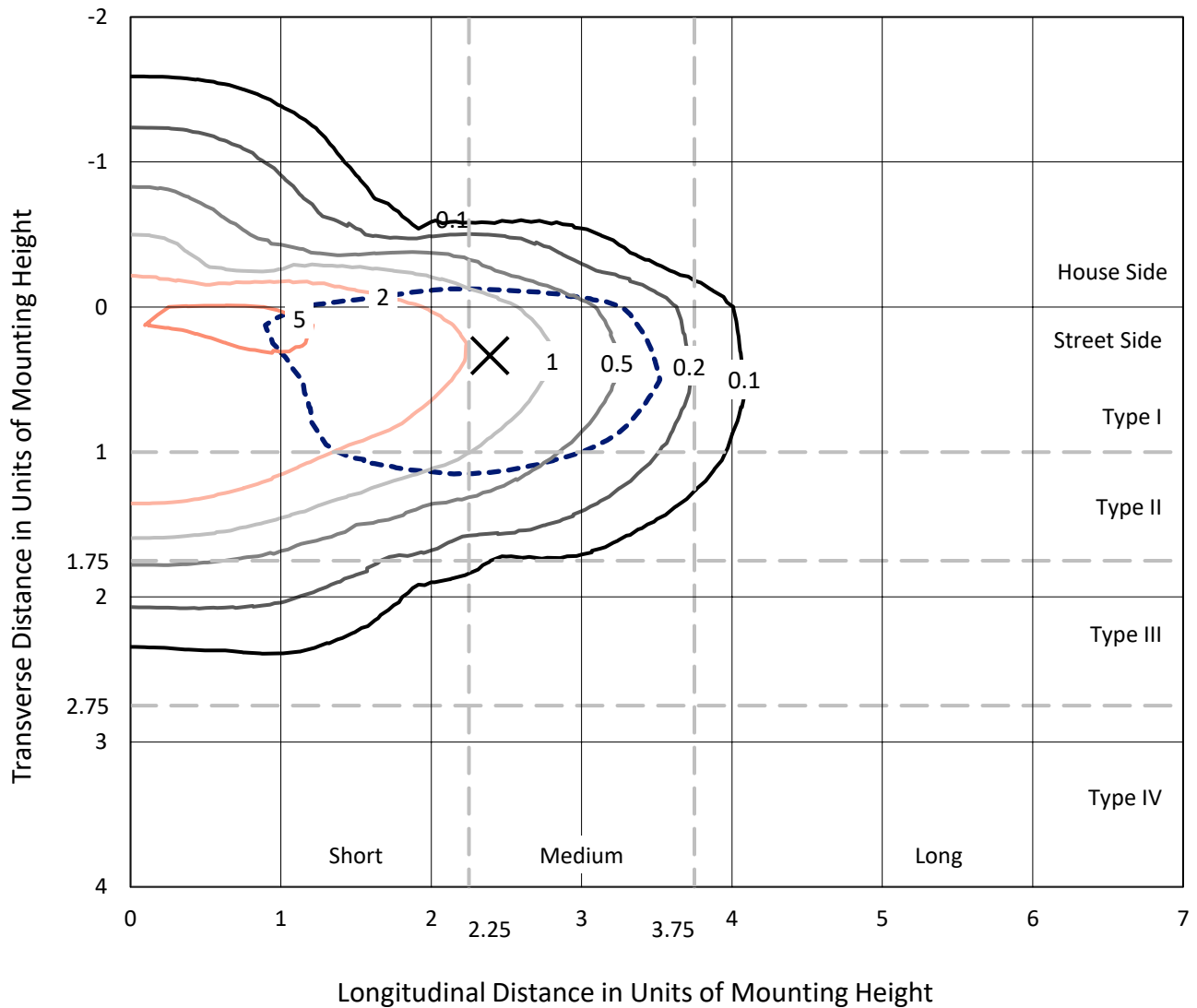
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

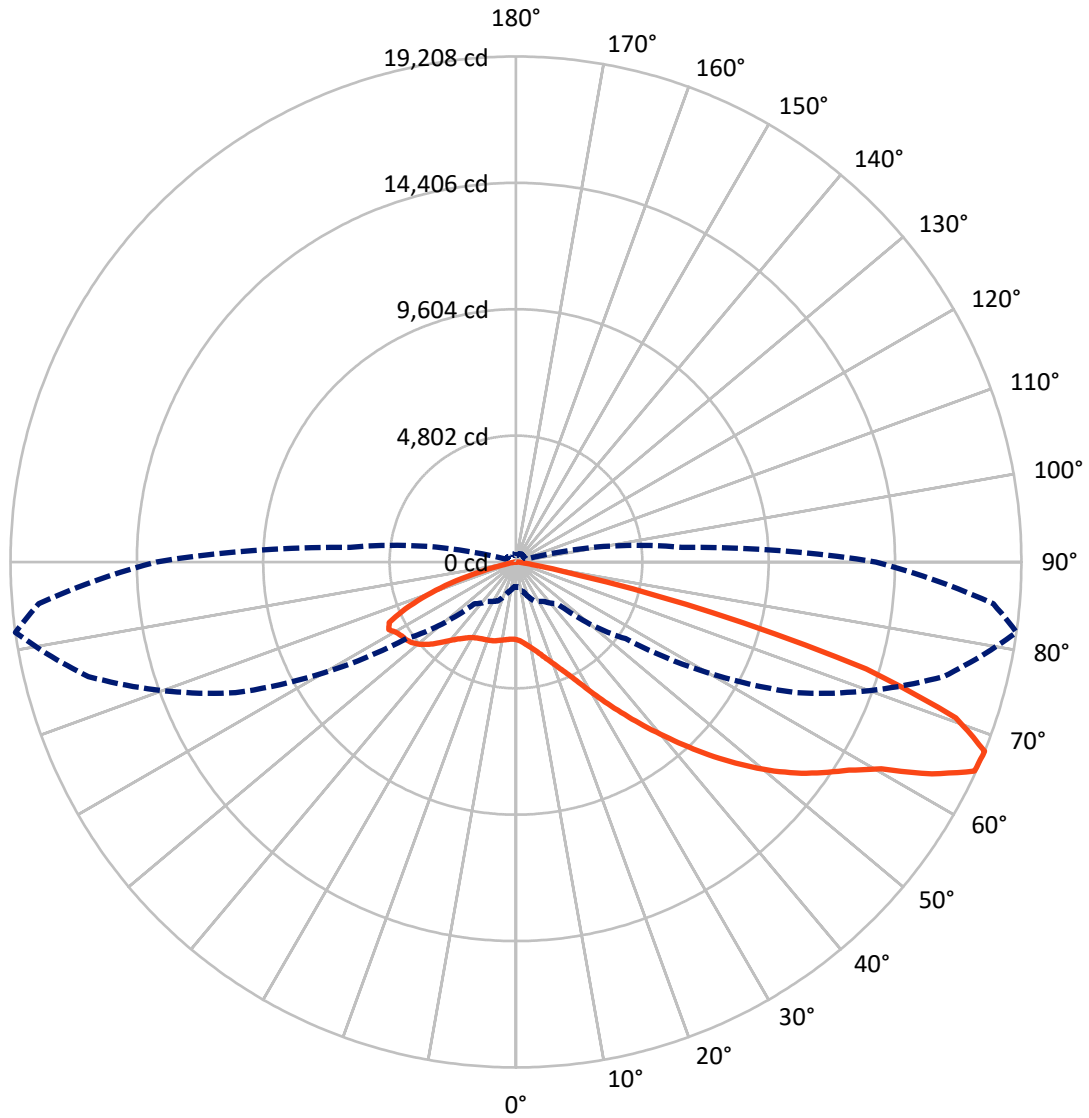
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	3224.3	0.0	3224.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	14575.7	0.0	14575.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	17800.0	0.0	17800.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.7	1.5
10°-20°	682.7	3.8
20°-30°	1093.5	6.1
30°-40°	1933.6	10.9
40°-50°	3387.9	19.0
50°-60°	4518.5	25.4
60°-70°	4206.4	23.6
70°-80°	1614.4	9.1
80°-90°	100.3	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°	17800.0	100.0
0°-180°	17800.0	100.0

Coefficient of Utilization



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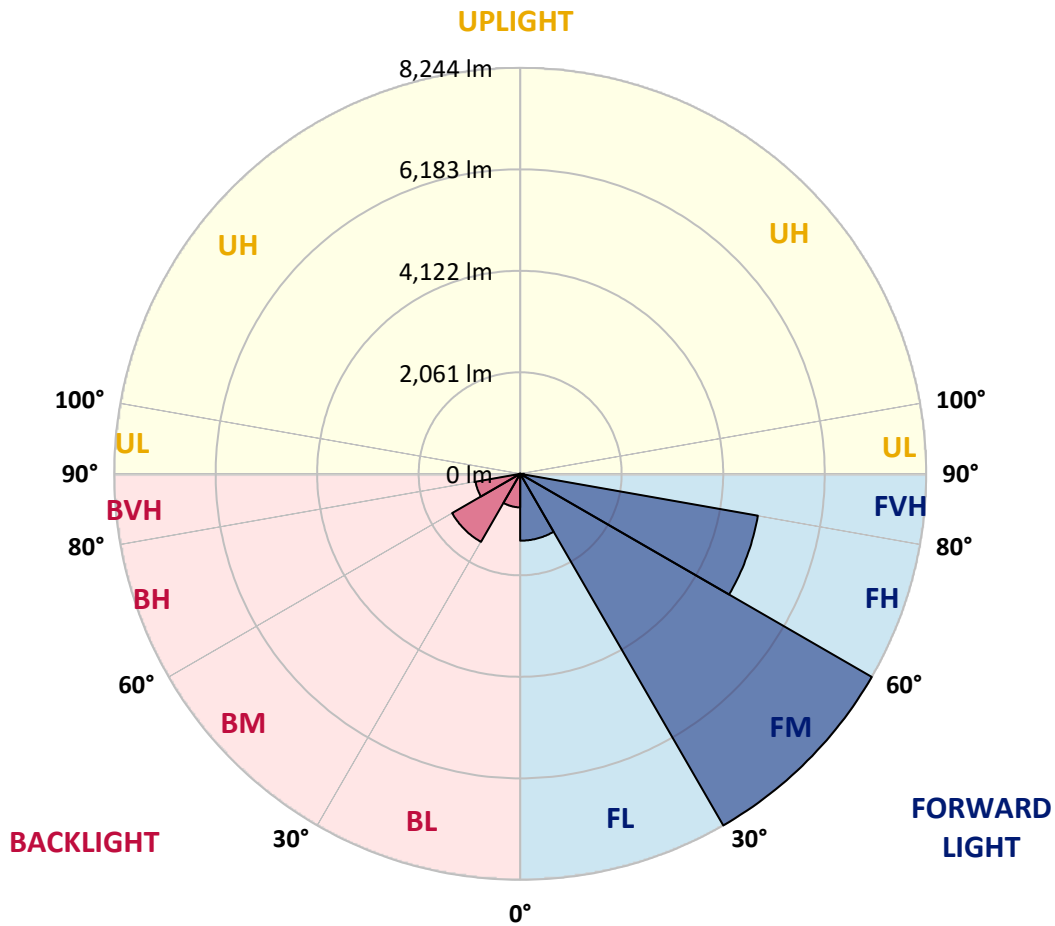
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1357.9	7.6			
FM (30°-60°)	8244.2	46.3			
FH (60°-80°)	4900.6	27.5			G2/5000
FVH (80°-90°)	72.9	0.4			G1/100
BL (0°-30°)	681.0	3.8	B2/1000		
BM (30°-60°)	1595.7	9.0	B2/2500		
BH (60°-80°)	920.3	5.2	B2/1000		G2/1000
BVH (80°-90°)	27.4	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°	2948.9	2948.9	2948.9	2948.9	2948.9	2948.9	2948.9	2948.9	2948.9	2948.9
2.5°	3116.7	3134.7	3124.4	3119.3	3110.3	3097.5	3087.3	3055.2	3021.9	3000.1
5°	3179.5	3197.5	3196.2	3201.3	3207.7	3211.6	3209.0	3173.1	3125.7	3088.5
7.5°	3125.7	3146.2	3162.9	3188.5	3233.4	3280.8	3303.8	3296.2	3247.5	3196.2
10°	2973.2	2995.0	3034.7	3095.0	3189.8	3292.3	3378.2	3417.9	3387.1	3330.8
12.5°	2693.8	2715.6	2793.8	2924.5	3083.4	3261.6	3425.6	3532.0	3539.7	3483.3
15°	2379.8	2401.6	2484.9	2649.0	2891.2	3177.0	3451.2	3652.4	3720.4	3671.7
17.5°	2185.1	2204.3	2267.1	2399.1	2651.5	3007.8	3442.3	3780.6	3935.7	3897.2
20°	2126.1	2142.8	2172.2	2264.5	2474.7	2832.2	3383.3	3901.1	4167.6	4145.8
22.5°	2188.9	2204.3	2213.2	2254.3	2386.3	2716.9	3309.0	4024.1	4436.7	4439.3
25°	2333.7	2349.1	2338.8	2364.5	2422.1	2681.0	3280.8	4168.9	4775.1	4803.3
27.5°	2572.1	2573.4	2549.0	2547.7	2556.7	2734.8	3310.3	4324.0	5201.8	5254.4
30°	3050.1	3030.9	2937.3	2836.1	2789.9	2896.3	3392.3	4507.2	5705.5	5799.0
32.5°	3787.0	3758.8	3587.1	3344.9	3101.4	3156.5	3539.7	4716.1	6254.0	6423.2
35°	4586.7	4579.0	4399.6	4039.5	3614.0	3526.8	3779.3	4990.4	6852.5	7121.6
37.5°	5330.0	5326.1	5223.6	4799.4	4281.7	4043.3	4163.8	5349.2	7493.3	7882.8
40°	6009.2	6020.7	5918.2	5538.9	5017.3	4705.9	4686.6	5792.6	8205.8	8712.0
42.5°	6596.2	6609.0	6505.2	6224.5	5743.9	5438.9	5328.7	6336.0	8901.7	9602.7
45°	6994.7	7074.2	7058.8	6834.5	6489.8	6173.2	6100.2	7017.8	9695.0	10547.2
47.5°	7107.5	7180.6	7295.9	7326.6	7116.5	6805.1	6892.2	7839.3	10497.2	11493.0
50°	6829.4	6897.3	7137.0	7456.1	7602.2	7506.1	7662.4	8719.7	11318.7	12436.2
52.5°	6280.9	6350.1	6652.6	7157.5	7753.4	8055.9	8435.2	9587.3	12114.5	13329.5
55°	5487.6	5560.7	5949.0	6520.6	7465.1	8282.7	9079.8	10453.6	12843.7	14133.0
57.5°	4408.5	4462.4	4866.1	5665.8	6739.7	8057.1	9555.3	11399.4	13530.7	14922.4
60°	2873.2	2920.7	3389.7	4281.7	5537.6	7303.6	9650.1	12454.1	14443.1	15948.9
62.5°	1910.8	1942.8	2220.9	2875.8	3899.8	5856.7	9095.2	13296.1	15781.1	17735.4
65°	1311.0	1343.1	1621.2	2077.4	2519.5	3874.1	7499.7	13184.6	16993.4	19154.1
67.5°	935.5	962.4	1198.3	1628.9	1823.7	2250.4	5083.9	11759.5	16819.1	19207.9
70°	670.3	685.6	880.4	1268.7	1449.4	1352.0	2827.1	8994.0	14726.3	17736.7
72.5°	469.0	474.2	611.3	966.3	1167.5	986.8	1345.6	5996.4	11138.0	13921.5
75°	317.8	324.2	411.4	708.7	936.8	753.6	712.5	3215.4	6538.5	7706.0
77.5°	194.8	197.4	265.3	484.4	701.0	574.1	458.8	1362.3	2529.8	2483.7
80°	110.2	110.2	169.2	301.2	478.0	370.4	321.7	579.3	801.0	703.6
82.5°	61.5	62.8	123.0	187.1	316.5	219.1	176.9	267.8	346.0	306.3
85°	25.6	28.2	75.6	88.4	151.2	108.9	71.8	112.8	128.2	114.1
87.5°	2.6	3.8	23.1	16.7	17.9	21.8	10.3	21.8	17.9	17.9
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°
2948.9	0°	2948.9	2948.9	2948.9	2948.9	2948.9	2948.9	2948.9	2948.9	2948.9	2948.9
2992.4	2.5°	2968.1	2948.9	2900.2	2843.8	2769.4	2733.6	2684.9	2651.5	2623.3	2625.9
3066.8	5°	3025.8	2977.1	2868.1	2732.3	2563.1	2442.6	2314.5	2226.1	2154.3	2138.9
3169.3	7.5°	3105.2	3028.3	2837.4	2592.6	2306.8	2090.2	1896.7	1772.4	1684.0	1655.8
3293.6	10°	3207.7	3096.2	2797.6	2417.0	2005.6	1730.1	1522.5	1425.1	1364.9	1344.4
3439.7	12.5°	3326.9	3174.4	2745.1	2203.0	1695.5	1430.2	1298.2	1249.5	1230.3	1223.9
3619.1	15°	3476.9	3271.8	2665.6	1949.2	1432.8	1247.0	1190.6	1184.2	1186.7	1184.2
3834.4	17.5°	3655.0	3378.2	2536.2	1687.8	1255.9	1153.4	1132.9	1138.0	1144.4	1143.1
4075.3	20°	3849.8	3483.3	2370.9	1455.8	1135.5	1086.8	1075.2	1080.4	1085.5	1082.9
4353.4	22.5°	4071.5	3596.0	2187.6	1275.1	1054.7	1025.2	1012.4	1013.7	1013.7	1008.6
4705.9	25°	4336.8	3720.4	1995.4	1147.0	993.2	970.1	954.8	949.6	941.9	926.6
5133.9	27.5°	4653.3	3852.4	1810.8	1057.3	944.5	922.7	904.8	892.0	872.7	847.1
5647.8	30°	5009.6	4012.5	1654.5	1000.9	906.1	884.3	863.8	844.5	816.4	784.3
6238.6	32.5°	5428.7	4184.3	1540.4	963.7	871.5	848.4	824.0	801.0	770.2	738.2
6902.5	35°	5928.5	4391.9	1473.8	938.1	844.5	813.8	786.9	761.2	738.2	710.0
7624.0	37.5°	6470.6	4612.3	1453.3	925.3	826.6	779.2	748.4	730.5	727.9	711.3
8404.4	40°	7063.9	4873.8	1468.7	917.6	807.4	745.9	712.5	708.7	715.1	685.6
9238.7	42.5°	7691.9	5183.9	1494.3	908.6	780.5	712.5	680.5	680.5	675.4	634.4
10120.4	45°	8371.1	5541.4	1519.9	886.8	748.4	679.2	654.9	645.9	624.1	584.4
11007.3	47.5°	9055.5	5905.4	1539.1	847.1	710.0	651.0	629.2	608.7	576.7	540.8
11877.5	50°	9705.2	6232.2	1518.6	788.2	666.4	624.1	601.0	572.9	538.3	513.9
12701.5	52.5°	10285.8	6515.4	1431.5	719.0	620.3	595.9	575.4	545.9	517.7	492.1
13444.8	55°	10790.7	6744.8	1277.7	653.6	579.3	571.6	551.1	513.9	475.5	453.7
14181.7	57.5°	11275.1	6919.1	1085.5	599.8	542.1	544.7	513.9	480.6	444.7	421.6
15174.9	60°	11919.7	7152.4	890.7	549.8	502.4	510.1	476.7	452.4	407.5	378.1
16878.1	62.5°	12950.1	7515.0	707.4	488.3	456.2	458.8	444.7	415.2	361.4	326.8
18140.4	65°	13767.7	7381.8	557.5	421.6	403.7	407.5	407.5	375.5	317.8	278.1
18208.3	67.5°	13675.5	6320.6	444.7	356.3	353.7	356.3	365.2	338.3	281.9	249.9
16821.7	70°	12597.7	5027.5	356.3	296.0	307.6	301.2	326.8	308.9	253.7	221.7
13041.1	72.5°	10279.4	3621.7	271.7	244.8	235.8	246.1	294.8	278.1	211.5	175.6
6907.6	75°	6006.6	1932.6	202.5	193.5	170.4	205.0	261.4	237.1	161.5	129.4
2117.1	77.5°	1955.7	674.1	148.7	142.3	126.9	165.3	223.0	199.9	132.0	102.5
620.3	80°	524.2	203.8	101.2	93.6	82.0	123.0	176.9	158.9	94.8	66.6
266.6	82.5°	210.2	85.9	59.0	52.5	44.9	84.6	139.7	128.2	70.5	42.3
83.3	85°	67.9	28.2	21.8	16.7	20.5	52.5	83.3	87.1	50.0	21.8
12.8	87.5°	9.0	3.8	3.8	5.1	3.8	9.0	25.6	24.3	14.1	2.6
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°
2948.9
2600.3
2104.3
1627.6
1329.0
1220.0
1182.9
1140.6
1081.6
1006.0
924.0
844.5
781.7
739.5
707.4
710.0
686.9
634.4
583.1
539.5
510.1
489.6
451.1
419.1
374.2
324.2
274.3
244.8
217.9
171.7
125.6
98.7
65.4
42.3
16.7
0.0
0.0

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