

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: P954106

Luminaire Tested: **GALN-SB7B-950-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954106
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-SB7B-950-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 450mA 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: 21290 lumens
Efficiency: N/A
Efficacy: 82.9 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

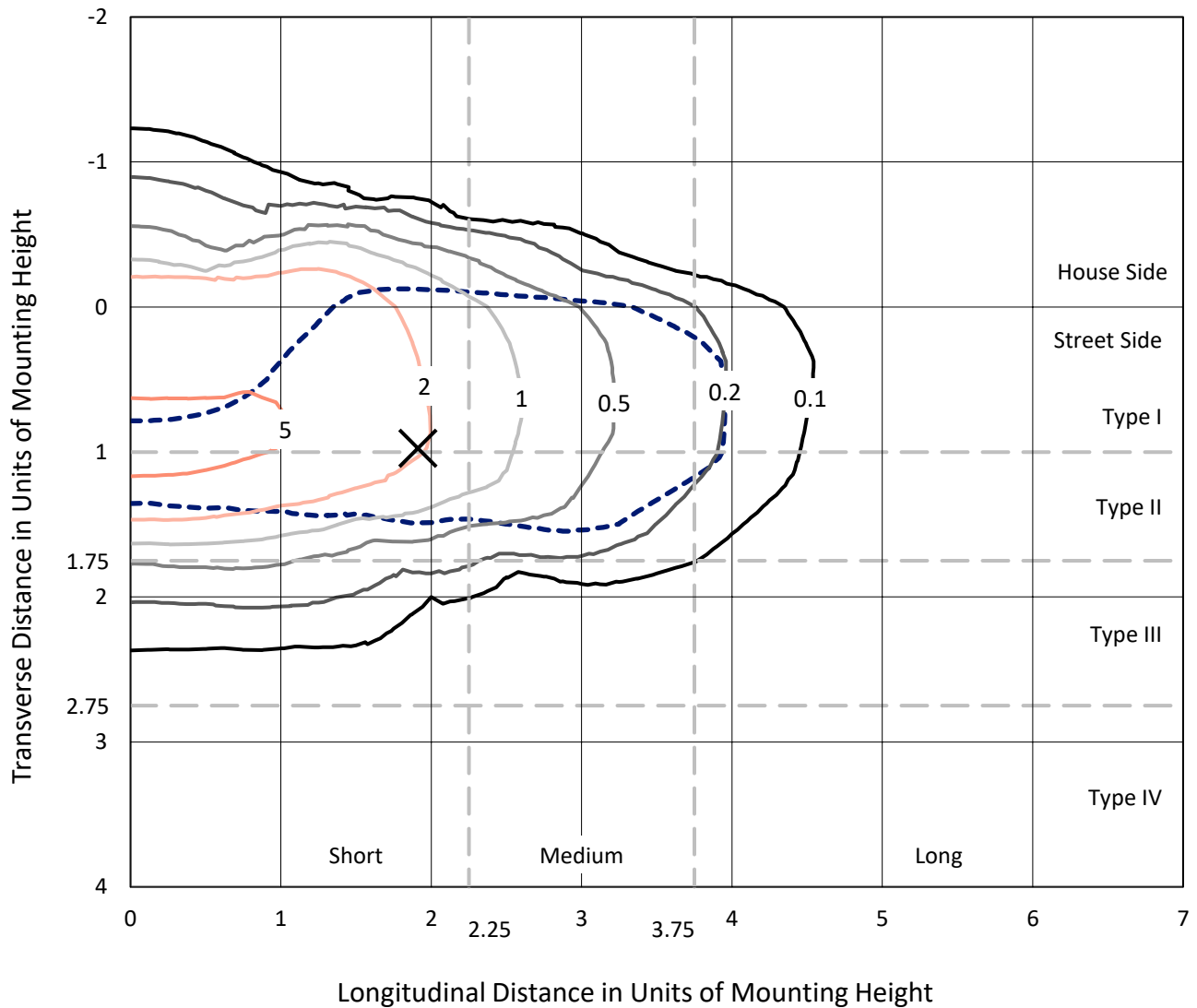
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

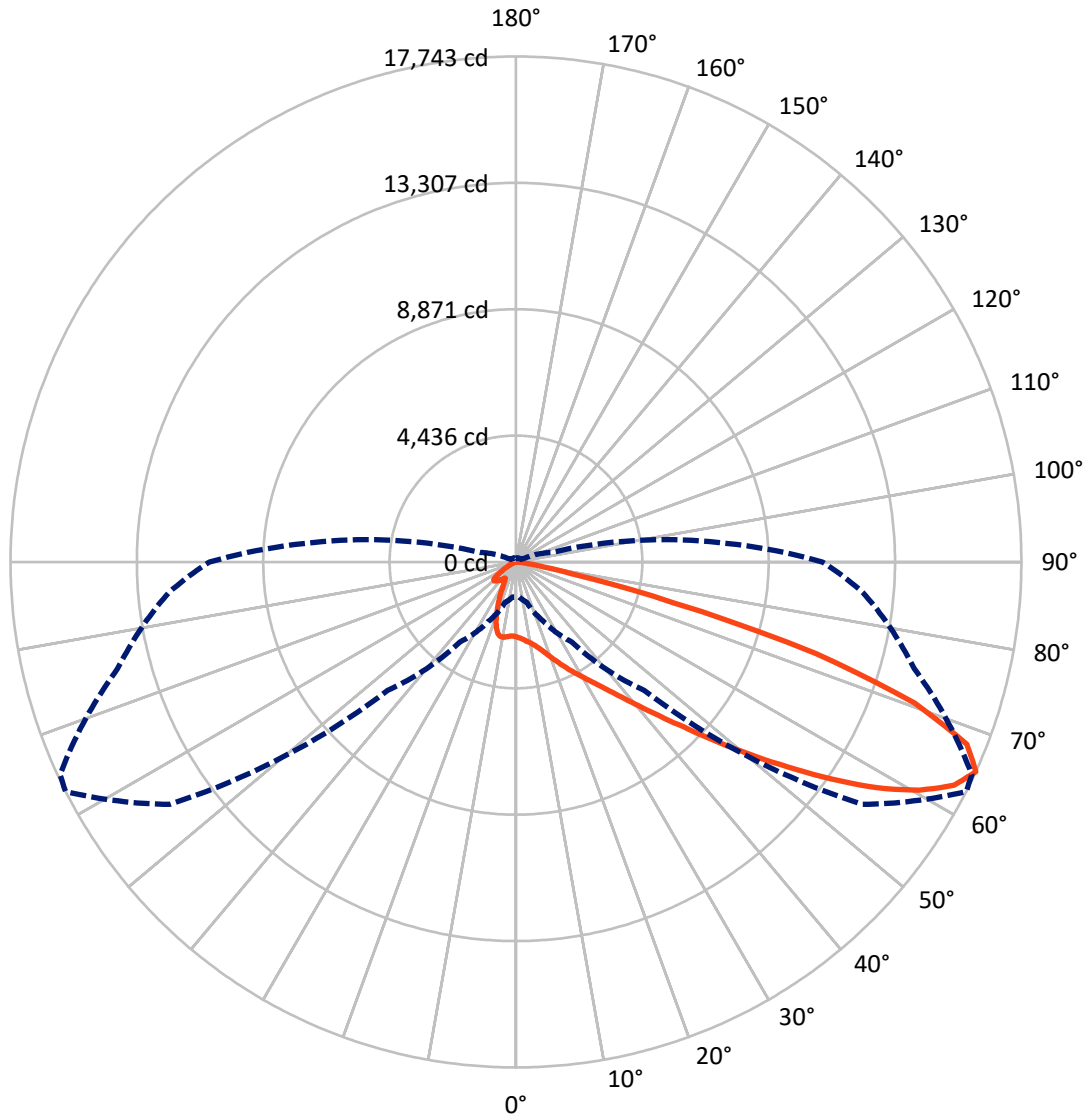
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	3129.5	0.0	3129.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	18160.5	0.0	18160.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	21290.0	0.0	21290.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.6	1.2
10°-20°	686.9	3.2
20°-30°	1196.1	5.6
30°-40°	2155.8	10.1
40°-50°	4275.7	20.1
50°-60°	5824.2	27.4
60°-70°	4648.8	21.8
70°-80°	2103.7	9.9
80°-90°	151.2	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°	21290.0	100.0
0°-180°	21290.0	100.0



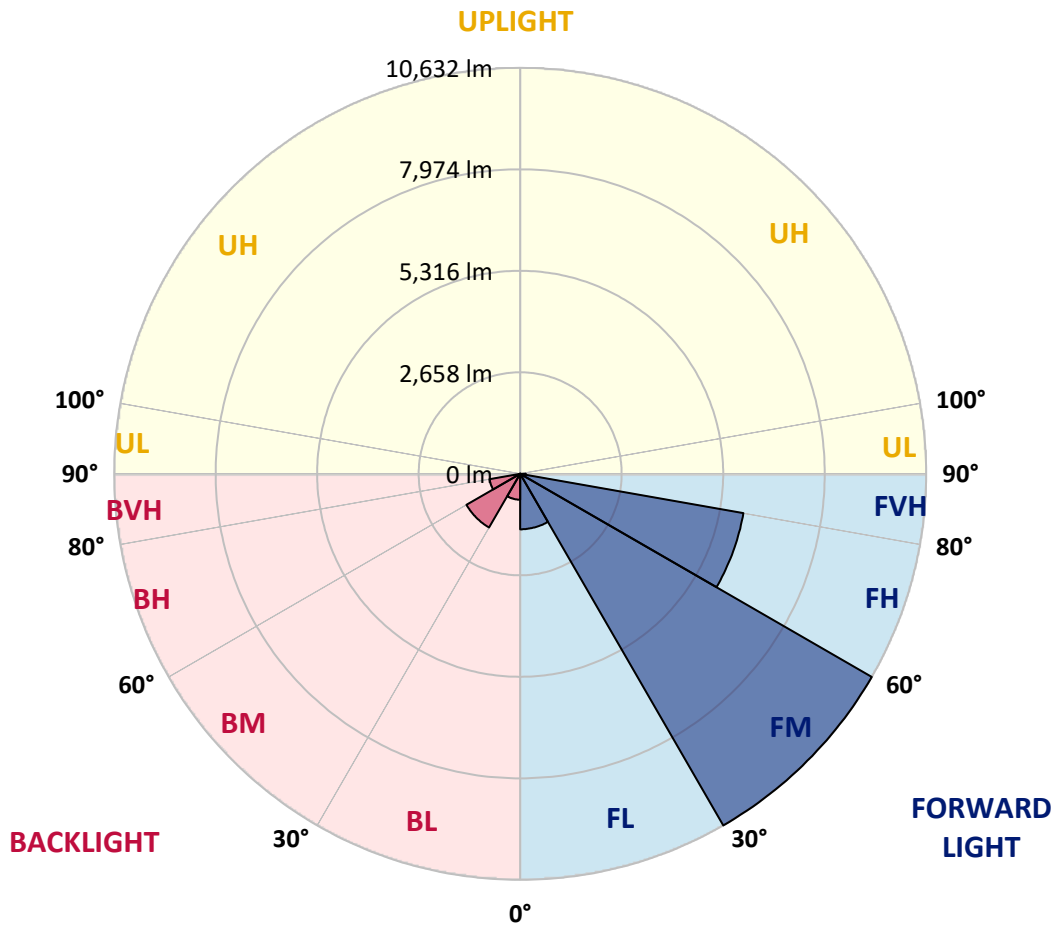
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1453.3	6.8			
FM (30°-60°)	10631.7	49.9			
FH (60°-80°)	5935.6	27.9			G3/7500
FVH (80°-90°)	140.0	0.7			G2/225
BL (0°-30°)	677.3	3.2	B2/1000		
BM (30°-60°)	1624.0	7.6	B2/2500		
BH (60°-80°)	817.0	3.8	B2/1000		G2/1000
BVH (80°-90°)	11.2	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°	2627.6	2627.6	2627.6	2627.6	2627.6	2627.6	2627.6	2627.6	2627.6	2627.6
2.5°	2689.1	2681.8	2692.0	2687.6	2684.7	2678.9	2675.9	2673.0	2667.1	2662.7
5°	2696.4	2692.0	2702.3	2711.1	2719.9	2728.6	2733.0	2738.9	2733.0	2721.3
7.5°	2634.9	2632.0	2654.0	2680.3	2719.9	2753.5	2790.2	2810.7	2812.1	2807.7
10°	2630.5	2623.2	2645.2	2677.4	2728.6	2788.7	2853.1	2897.1	2902.9	2922.0
12.5°	2699.4	2692.0	2722.8	2757.9	2810.7	2873.7	2952.7	3014.3	3023.0	3049.4
15°	2815.1	2804.8	2840.0	2885.4	2952.7	3024.5	3108.0	3163.7	3171.0	3203.2
17.5°	2949.8	2939.6	2980.6	3028.9	3102.1	3200.3	3296.9	3358.5	3367.2	3387.7
20°	3122.6	3109.5	3141.7	3185.6	3263.2	3380.4	3496.1	3584.0	3582.5	3582.5
22.5°	3323.3	3302.8	3330.6	3365.8	3439.0	3581.1	3734.9	3838.9	3838.9	3797.8
25°	3538.6	3518.1	3548.9	3581.1	3645.5	3806.6	3986.8	4115.7	4121.5	4051.2
27.5°	3808.1	3781.7	3805.2	3843.3	3881.3	4045.4	4259.2	4408.6	4411.5	4303.2
30°	4326.6	4251.9	4178.7	4137.6	4155.2	4317.8	4546.3	4711.8	4726.4	4577.0
32.5°	5275.7	5261.0	5003.3	4666.4	4490.6	4610.7	4867.0	5066.2	5075.0	4883.2
35°	6750.6	6733.0	6318.5	5677.0	5104.3	5003.3	5256.6	5492.5	5486.6	5269.8
37.5°	8511.1	8495.0	7948.7	7090.4	6163.3	5596.4	5759.0	6006.5	6043.2	5759.0
40°	10015.3	9955.2	9609.6	8782.1	7569.3	6580.7	6473.8	6637.8	6675.9	6339.0
42.5°	11154.8	11103.5	10927.8	10410.8	9271.3	8036.6	7315.9	7378.9	7421.4	7017.2
45°	11745.1	11733.3	11803.6	11755.3	11005.4	9823.4	8519.9	8257.7	8273.8	7768.5
47.5°	11828.5	11822.7	12143.4	12597.5	12496.4	11838.8	10065.1	9353.3	9296.2	8616.6
50°	11336.4	11324.7	11939.9	12790.8	13492.4	13531.9	11819.8	10588.0	10462.0	9493.9
52.5°	9764.8	9761.9	10772.5	12188.8	13842.4	15014.2	13553.9	11944.2	11733.3	10422.5
55°	7513.7	7567.9	8726.4	10400.5	13203.9	15727.4	15110.8	13449.9	13126.2	11356.9
57.5°	5322.6	5401.6	6547.0	8038.0	11223.6	15305.6	16163.9	14958.5	14609.9	12288.4
60°	2859.0	2929.3	4076.1	5855.7	8350.0	13732.6	16719.0	16267.9	15938.4	13173.1
62.5°	1703.4	1726.8	2201.4	3780.3	5647.7	10491.3	16483.2	17265.3	16994.4	13915.7
65°	1223.0	1227.4	1466.1	2308.3	3428.8	6374.2	14829.6	17742.8	17659.3	14475.2
67.5°	1029.7	1026.7	1126.3	1533.5	2336.1	3192.9	11365.7	17067.6	17422.1	14829.6
70°	883.2	887.6	1004.8	1123.4	1756.1	1807.4	5650.6	14860.4	15616.1	14923.4
72.5°	657.6	672.3	780.7	1023.8	1325.5	1243.5	1950.9	11018.6	12385.1	14060.7
75°	464.3	471.6	549.2	861.2	988.6	905.2	996.0	5696.0	7447.8	10779.8
77.5°	357.4	370.6	416.0	602.0	974.0	635.7	609.3	1971.4	3028.9	6511.8
80°	193.3	216.8	300.3	435.0	684.0	449.6	301.7	785.1	1026.7	3045.0
82.5°	99.6	111.3	209.4	313.4	389.6	392.5	149.4	326.6	423.3	940.3
85°	39.5	48.3	140.6	172.8	200.7	193.3	67.4	131.8	152.3	260.7
87.5°	8.8	14.6	51.3	39.5	38.1	41.0	16.1	30.8	29.3	30.8
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°
2627.6	0°	2627.6	2627.6	2627.6	2627.6	2627.6	2627.6	2627.6	2627.6	2627.6	2627.6
2645.2	2.5°	2643.7	2637.8	2621.7	2604.2	2583.6	2571.9	2564.6	2563.1	2552.9	2545.6
2703.8	5°	2687.6	2681.8	2651.0	2614.4	2574.9	2544.1	2514.8	2488.4	2450.4	2443.0
2788.7	7.5°	2775.5	2759.4	2709.6	2659.8	2585.1	2495.8	2387.4	2262.9	2151.6	2117.9
2901.5	10°	2883.9	2861.9	2799.0	2711.1	2545.6	2302.4	2040.3	1797.1	1603.8	1549.6
3034.8	12.5°	3006.9	2987.9	2904.4	2741.8	2380.1	1939.2	1537.9	1236.2	1048.7	1001.8
3176.8	15°	3153.4	3125.6	3009.9	2695.0	2084.2	1473.4	1056.0	877.3	810.0	801.2
3339.4	17.5°	3308.7	3263.2	3103.6	2526.5	1685.8	1047.2	815.8	764.5	735.3	726.5
3503.5	20°	3450.7	3392.1	3159.3	2271.7	1259.6	815.8	730.9	697.2	670.8	660.6
3667.5	22.5°	3592.8	3509.3	3159.3	1924.6	944.7	723.5	670.8	640.1	609.3	596.1
3843.3	25°	3740.7	3629.4	3103.6	1537.9	760.2	663.5	613.7	580.0	553.6	537.5
4010.2	27.5°	3884.3	3730.5	2976.2	1171.7	676.7	610.8	561.0	528.7	503.8	492.1
4191.8	30°	4020.5	3830.1	2797.5	889.0	622.5	559.5	512.6	484.8	459.9	448.2
4427.6	32.5°	4205.0	3956.0	2607.1	729.4	575.6	511.2	468.7	442.3	420.4	411.6
4733.8	35°	4461.3	4142.0	2443.0	716.2	536.1	471.6	429.1	404.2	382.3	375.0
5129.2	37.5°	4824.6	4442.3	2356.6	804.1	503.8	436.5	396.9	370.6	350.1	344.2
5631.6	40°	5272.8	4849.5	2403.5	892.0	481.9	405.7	367.6	341.3	323.7	316.4
6208.7	42.5°	5804.4	5351.8	2662.7	959.3	467.2	379.3	339.8	310.5	298.8	295.9
6863.4	45°	6415.2	5904.0	3059.7	1031.1	443.8	354.4	312.0	290.0	281.2	279.7
7575.2	47.5°	7109.4	6510.4	3519.6	1120.5	420.4	331.0	290.0	275.4	268.0	265.1
8317.8	50°	7797.8	7121.1	3992.6	1170.3	401.3	309.0	272.4	260.7	254.8	253.4
9102.8	52.5°	8518.4	7749.5	4374.9	1123.4	385.2	291.5	257.8	249.0	243.1	241.7
9826.4	55°	9205.3	8257.7	4440.8	953.5	353.0	273.9	241.7	237.3	230.0	230.0
10560.2	57.5°	9797.1	8512.6	3975.1	700.1	320.8	247.5	225.6	221.2	215.3	213.8
11222.2	60°	10340.5	8439.3	3068.4	471.6	285.6	221.2	205.1	202.1	196.3	188.9
11797.8	62.5°	10646.6	8117.1	2098.8	307.6	250.5	193.3	181.6	180.2	167.0	152.3
12224.0	65°	10762.3	7455.1	1309.4	224.1	209.4	165.5	156.7	153.8	134.7	118.6
12465.7	67.5°	10661.2	6365.4	660.6	177.2	165.5	137.7	128.9	128.9	115.7	101.1
12451.0	70°	10257.0	4771.8	278.3	142.1	127.4	105.5	105.5	111.3	98.1	82.0
11805.1	72.5°	9379.6	3210.5	147.9	108.4	95.2	74.7	86.4	90.8	77.6	61.5
9662.3	75°	7456.6	1958.2	102.5	80.6	60.1	52.7	65.9	68.8	52.7	41.0
6624.6	77.5°	5099.9	1124.9	68.8	51.3	38.1	30.8	45.4	42.5	27.8	19.0
2554.4	80°	2239.5	468.7	39.5	23.4	14.6	11.7	16.1	11.7	8.8	5.9
350.1	82.5°	262.2	109.8	14.6	8.8	5.9	2.9	1.5	0.0	0.0	0.0
106.9	85°	54.2	13.2	7.3	2.9	1.5	0.0	0.0	0.0	0.0	0.0
19.0	87.5°	10.3	2.9	1.5	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>
2627.6
2552.9
2440.1
2101.8
1529.1
988.6
792.4
722.1
654.7
588.8
531.7
492.1
449.6
411.6
375.0
342.7
314.9
295.9
278.3
265.1
253.4
241.7
228.5
212.4
187.5
149.4
117.2
99.6
80.6
61.5
39.5
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