

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: P951588

Luminaire Tested: **GALN-SB5C-940-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-940-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22823 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

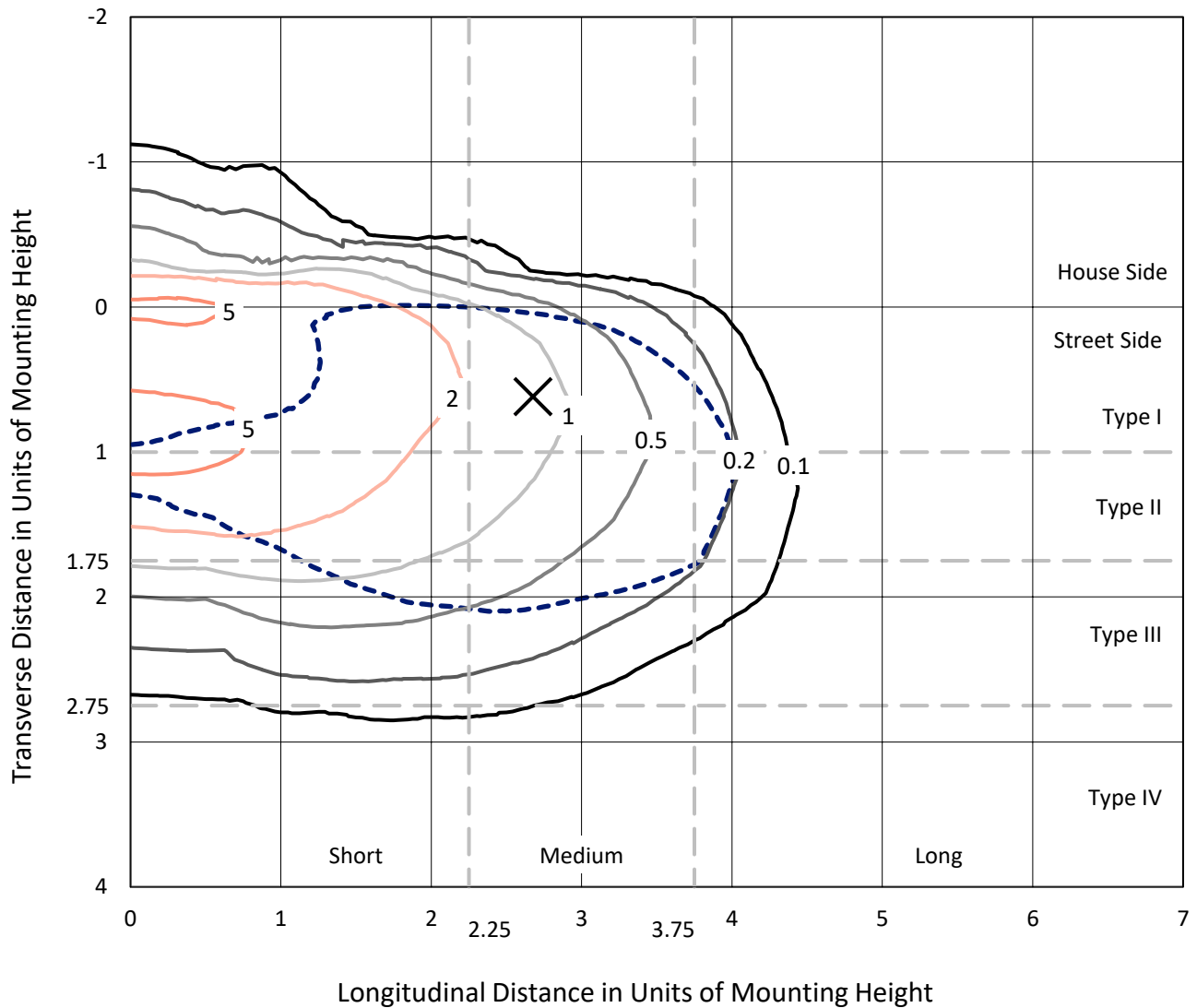
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

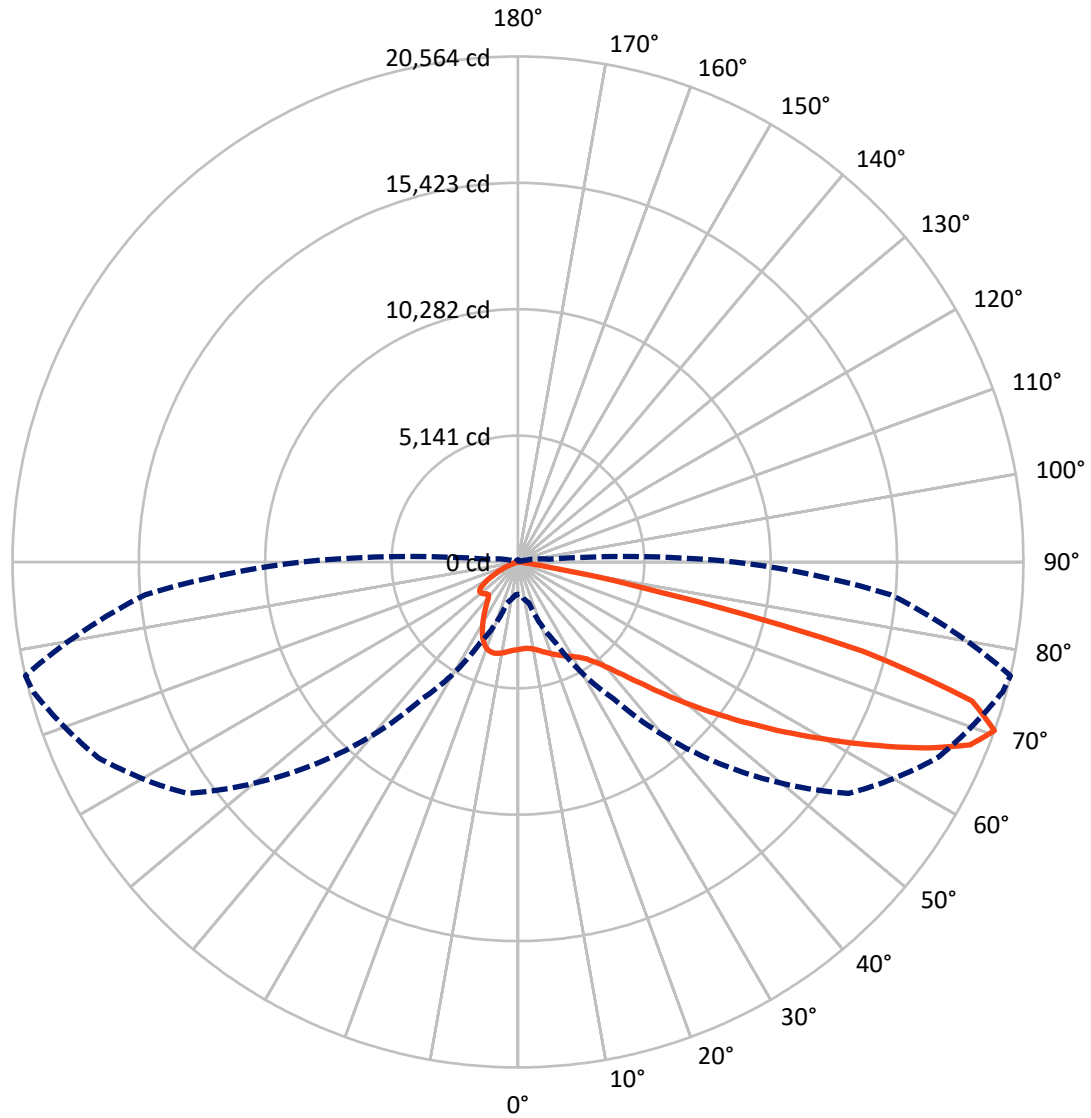
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2405.9	0.0	2405.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	20417.1	0.0	20417.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	22823.0	0.0	22823.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.8	1.3
10°-20°	728.3	3.2
20°-30°	1126.5	4.9
30°-40°	2044.2	9.0
40°-50°	3858.6	16.9
50°-60°	5575.4	24.4
60°-70°	5934.8	26.0
70°-80°	3145.0	13.8
80°-90°	103.3	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°	22823.0	100.0
0°-180°	22823.0	100.0

Coefficient of Utilization



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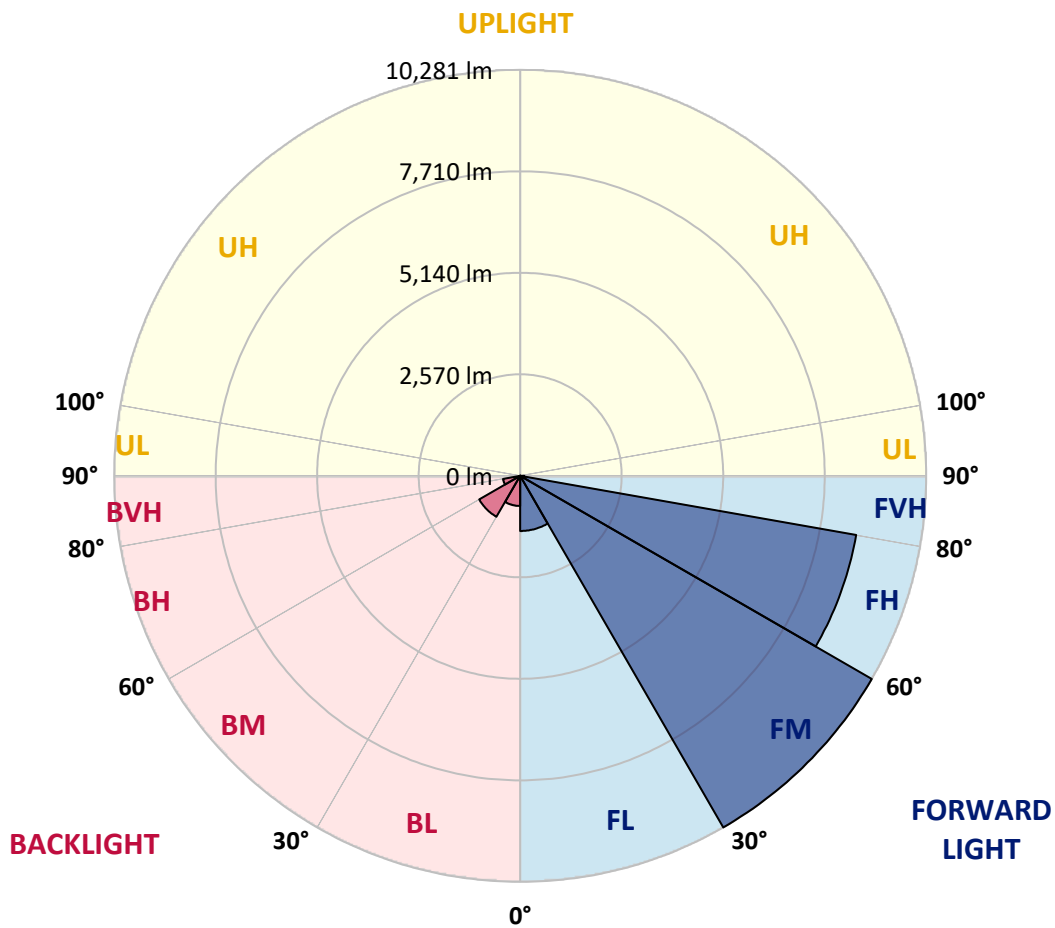
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1397.3	6.1			
FM (30°-60°)	10280.5	45.0			
FH (60°-80°)	8638.8	37.9			G4/12000
FVH (80°-90°)	100.5	0.4			G2/225
BL (0°-30°)	764.4	3.3	B2/1000		
BM (30°-60°)	1197.6	5.2	B2/2500		
BH (60°-80°)	441.1	1.9	B1/500		G1/500
BVH (80°-90°)	2.8	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3560.0	3560.0	3560.0	3560.0	3560.0	3560.0	3560.0	3560.0	3560.0	3560.0
2.5°	3342.3	3372.6	3368.3	3388.5	3395.7	3424.5	3453.3	3492.2	3535.5	3534.0
5°	3153.5	3183.8	3191.0	3218.4	3253.0	3297.7	3356.8	3434.6	3515.3	3528.3
7.5°	2930.1	2961.8	2980.6	3035.3	3098.8	3191.0	3287.6	3401.4	3535.5	3554.2
10°	2706.7	2735.6	2760.1	2837.9	2938.8	3075.7	3232.8	3397.1	3577.3	3604.7
12.5°	2568.4	2595.8	2623.1	2690.9	2816.3	2983.5	3196.8	3417.3	3646.5	3685.4
15°	2519.4	2543.9	2565.5	2626.0	2742.8	2933.0	3189.6	3459.1	3734.4	3786.3
17.5°	2526.6	2539.5	2554.0	2600.1	2713.9	2910.0	3202.5	3531.2	3838.1	3884.3
20°	2568.4	2575.6	2577.0	2608.7	2709.6	2907.1	3228.5	3600.3	3936.2	3998.1
22.5°	2621.7	2624.6	2621.7	2643.3	2737.0	2928.7	3263.1	3683.9	4045.7	4103.3
25°	2871.0	2816.3	2747.1	2705.3	2783.1	2970.5	3315.0	3796.3	4165.3	4221.5
27.5°	3645.0	3487.9	3240.0	2961.8	2878.2	3031.0	3387.0	3910.2	4286.4	4336.8
30°	4901.8	4695.7	4274.9	3647.9	3183.8	3157.9	3480.7	4024.1	4414.7	4469.4
32.5°	6161.5	6111.1	5625.3	4757.7	3871.3	3440.3	3636.4	4178.3	4584.7	4628.0
35°	7435.6	7333.3	6935.5	6077.9	4930.6	4015.4	3895.8	4380.1	4808.1	4857.1
37.5°	8411.3	8349.4	8102.9	7396.7	6187.4	4903.3	4339.7	4692.8	5132.4	5187.2
40°	9273.2	9244.4	9160.8	8695.3	7592.7	6064.9	5030.1	5177.1	5582.1	5647.0
42.5°	9950.6	10018.4	10065.9	9936.2	9041.2	7390.9	5958.3	5857.4	6209.1	6275.4
45°	10643.9	10667.0	10858.6	11046.0	10479.6	8777.4	7004.6	6654.4	6988.8	7070.9
47.5°	11089.3	11181.5	11518.8	11848.8	11688.8	10152.4	8128.9	7595.6	7892.5	8046.7
50°	11122.4	11296.8	11760.9	12336.0	12569.5	11461.1	9351.1	8667.9	8983.5	9153.6
52.5°	10570.4	10841.4	11560.6	12402.3	13045.1	12569.5	10615.1	9740.2	10145.2	10367.2
55°	8104.3	8458.9	10806.8	12041.9	13063.8	13409.7	11845.9	10857.2	11439.5	11690.3
57.5°	7060.9	7239.6	8496.4	11416.4	12716.5	13748.4	12958.6	11920.9	12847.6	13158.9
60°	5874.7	6109.6	7125.7	10393.1	12245.2	13781.6	13941.6	13293.0	14373.9	14724.2
62.5°	3992.4	4247.5	5257.8	8634.7	11600.9	13765.7	14747.2	14705.4	16070.3	16446.5
65°	2473.2	2633.2	3299.1	7050.8	10700.1	13783.0	15590.4	16420.6	17860.4	18242.4
67.5°	1954.4	2027.9	2375.2	5413.5	9147.8	13393.9	16432.1	18033.4	19545.3	19847.9
70°	1313.0	1357.7	1728.1	3629.2	6805.8	11598.0	16416.2	18843.4	20412.9	20564.3
72.5°	691.8	726.4	1010.3	1680.5	4110.5	8244.2	13837.8	17874.8	19549.6	19321.9
75°	345.9	403.6	680.3	853.2	1755.5	4597.7	8592.9	14092.9	15387.2	14505.1
77.5°	262.3	317.1	562.1	562.1	611.1	1547.9	3639.2	7686.4	7089.7	5903.5
80°	167.2	216.2	491.5	425.2	255.1	393.5	948.4	2153.3	1506.1	1145.8
82.5°	98.0	141.2	409.3	281.1	142.7	145.6	268.1	458.3	390.6	304.1
85°	38.9	92.2	281.1	111.0	56.2	36.0	80.7	98.0	80.7	60.5
87.5°	0.0	21.6	49.0	0.0	4.3	2.9	5.8	7.2	7.2	5.8
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°
3560.0	0°	3560.0	3560.0	3560.0	3560.0	3560.0	3560.0	3560.0	3560.0	3560.0	3560.0
3562.9	2.5°	3575.8	3578.7	3587.4	3588.8	3568.6	3542.7	3532.6	3528.3	3511.0	3509.5
3585.9	5°	3619.1	3632.0	3619.1	3581.6	3492.2	3366.8	3271.7	3193.9	3123.3	3101.6
3665.2	7.5°	3705.5	3718.5	3679.6	3532.6	3307.8	3058.4	2833.6	2675.0	2532.3	2479.0
3761.8	10°	3829.5	3846.8	3724.3	3427.4	3029.6	2628.9	2248.4	1980.3	1771.3	1686.3
3892.9	12.5°	3985.2	3992.4	3748.8	3267.4	2667.8	2095.6	1556.6	1269.8	1083.8	1014.7
4051.5	15°	4156.7	4146.6	3751.7	3049.8	2174.9	1481.6	1016.1	834.5	759.6	736.5
4210.0	17.5°	4336.8	4295.0	3694.0	2735.6	1634.4	1013.2	753.8	710.6	697.6	691.8
4367.1	20°	4514.1	4420.4	3588.8	2324.8	1173.2	756.7	684.6	671.6	664.4	661.6
4525.6	22.5°	4675.5	4515.5	3408.6	1847.7	851.8	668.8	647.1	635.6	622.6	616.9
4679.9	25°	4832.6	4570.3	3155.0	1402.4	681.7	625.5	608.2	586.6	569.3	562.1
4845.6	27.5°	4985.4	4604.9	2837.9	1037.7	608.2	585.2	553.5	523.2	510.2	507.3
5022.9	30°	5148.3	4616.4	2477.6	774.0	563.5	534.7	488.6	454.0	446.8	448.2
5262.1	32.5°	5347.2	4633.7	2114.4	634.2	526.1	474.2	419.4	383.4	377.6	383.4
5610.9	35°	5585.0	4668.3	1764.1	583.7	492.9	412.2	353.1	322.8	317.1	321.4
6057.7	37.5°	5907.8	4724.5	1437.0	573.6	465.5	360.3	296.9	272.4	272.4	273.8
6605.4	40°	6337.3	4874.4	1144.4	566.4	451.1	321.4	250.8	240.7	245.0	247.9
7303.0	42.5°	6860.5	5193.0	946.9	557.8	435.3	304.1	227.7	223.4	230.6	233.5
8138.9	45°	7447.1	5596.5	877.7	543.4	420.9	315.6	217.6	211.9	220.5	222.0
9075.8	47.5°	8053.9	5991.4	869.1	527.5	406.4	332.9	214.8	201.8	211.9	213.3
10076.0	50°	8667.9	6249.4	877.7	503.0	383.4	332.9	216.2	191.7	200.3	204.7
11113.8	52.5°	9286.2	6367.6	872.0	449.7	343.0	312.8	216.2	183.0	191.7	194.6
12235.1	55°	9885.8	6344.5	784.1	370.4	291.1	276.7	210.4	175.8	181.6	183.0
13294.4	57.5°	10360.0	6023.1	621.2	288.3	236.4	230.6	191.7	167.2	171.5	170.1
14265.8	60°	10607.9	5316.9	443.9	222.0	185.9	181.6	168.6	155.7	158.5	151.3
15088.8	62.5°	10610.7	4382.9	296.9	175.8	148.5	144.1	144.1	139.8	136.9	122.5
15725.9	65°	10384.5	3346.7	197.5	139.8	119.6	112.4	121.1	119.6	109.5	89.4
15920.4	67.5°	9871.4	2193.6	149.9	109.5	92.2	87.9	96.6	100.9	93.7	74.9
15211.3	70°	8816.3	1277.0	124.0	85.0	69.2	64.9	77.8	86.5	77.8	60.5
13001.8	72.5°	7323.2	688.9	100.9	63.4	47.6	43.2	62.0	70.6	62.0	44.7
8342.2	75°	4751.9	369.0	77.8	41.8	24.5	27.4	46.1	51.9	43.2	28.8
2448.7	77.5°	1595.5	162.9	49.0	20.2	11.5	11.5	27.4	31.7	20.2	10.1
445.4	80°	356.0	67.7	20.2	8.6	4.3	4.3	5.8	5.8	2.9	0.0
136.9	82.5°	116.7	27.4	8.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0
34.6	85°	44.7	10.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.5	87.5°	17.3	1.4	0.0	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>
3560.0
3512.4
3088.7
2457.4
1650.3
993.0
736.5
690.4
658.7
615.4
559.2
504.5
448.2
381.9
320.0
272.4
247.9
233.5
223.4
214.8
206.1
194.6
183.0
170.1
149.9
118.2
86.5
73.5
57.7
43.2
25.9
8.6
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