

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: P949948

Luminaire Tested: **GALN-SB4C-750-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949948
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-SB4C-750-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 615mA 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: 24268 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

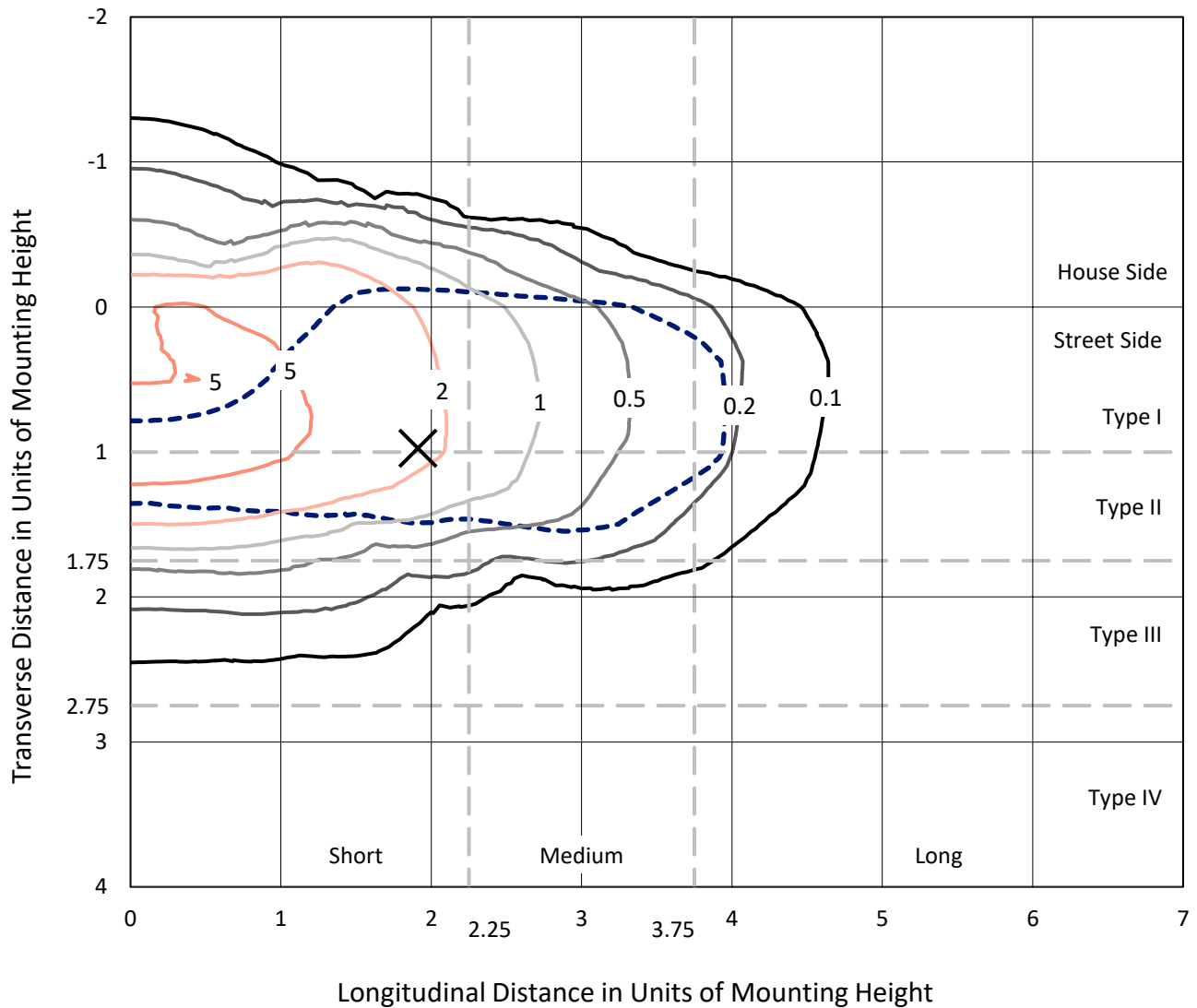
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

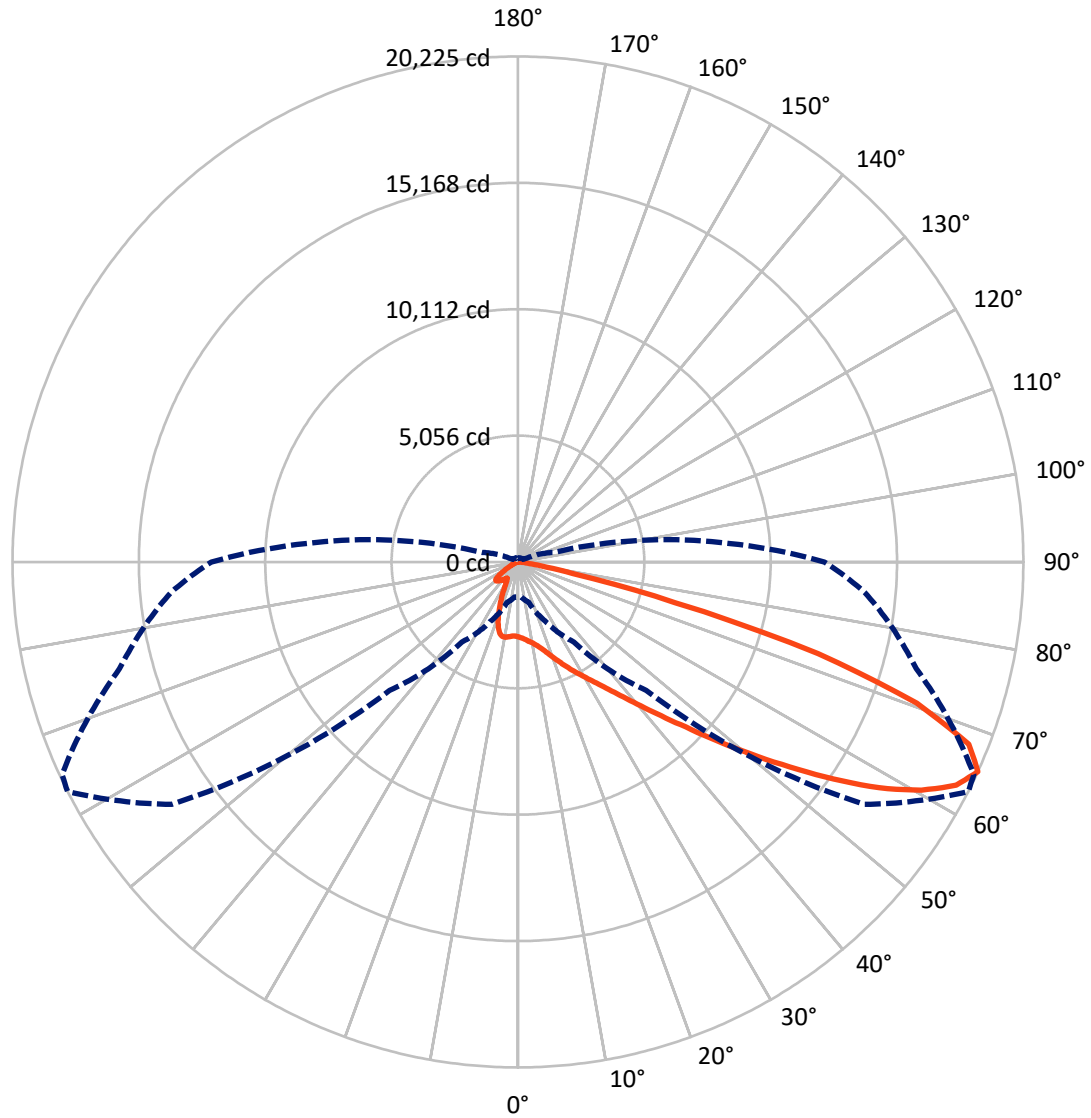
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	3567.2	0.0	3567.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	20700.8	0.0	20700.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	24268.0	0.0	24268.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.2	1.2
10°-20°	783.0	3.2
20°-30°	1363.4	5.6
30°-40°	2457.4	10.1
40°-50°	4873.8	20.1
50°-60°	6638.9	27.4
60°-70°	5299.1	21.8
70°-80°	2398.0	9.9
80°-90°	172.4	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°	24268.0	100.0
0°-180°	24268.0	100.0

Coefficient of Utilization



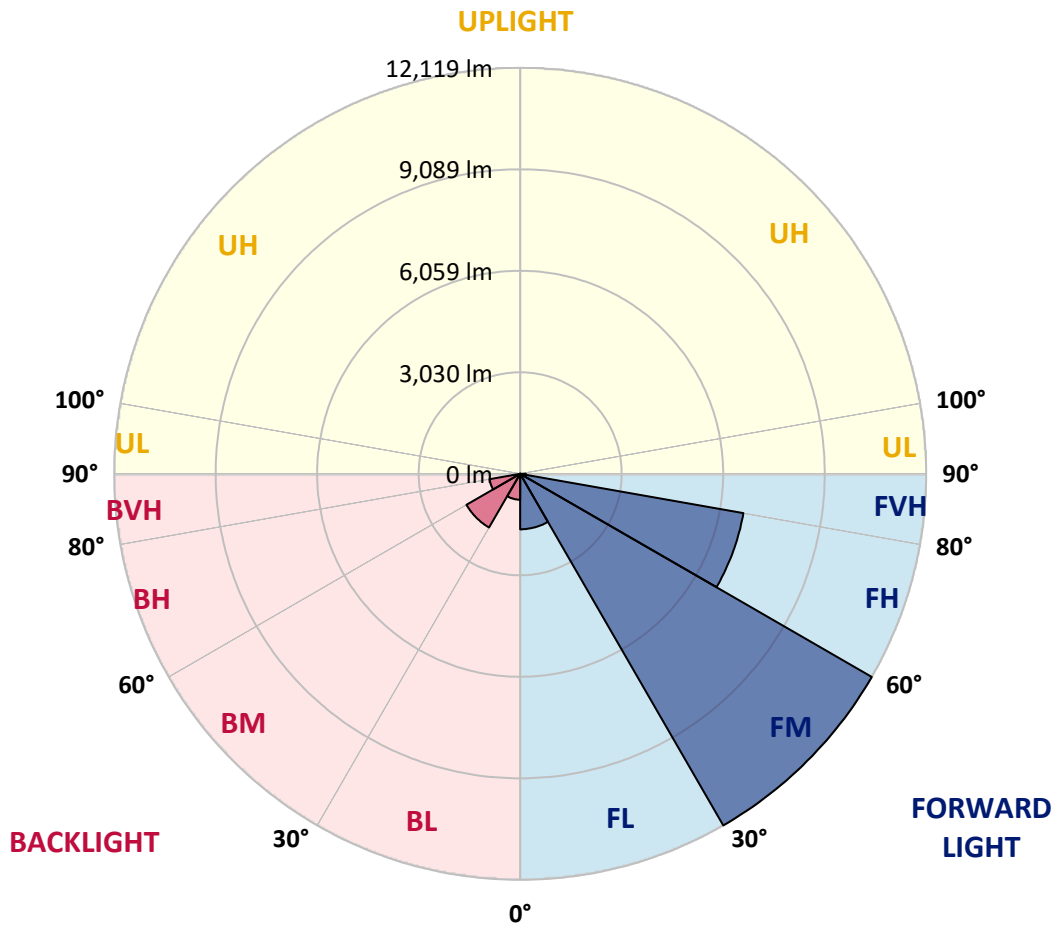
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1656.6	6.8			
FM	(30°-60°)	12118.8	49.9			
FH	(60°-80°)	6765.8	27.9			G3/7500
FVH	(80°-90°)	159.6	0.7			G2/225
BL	(0°-30°)	772.0	3.2	B2/1000		
BM	(30°-60°)	1851.2	7.6	B2/2500		
BH	(60°-80°)	931.3	3.8	B2/1000		G2/1000
BVH	(80°-90°)	12.8	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°	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1
2.5°	3065.2	3056.9	3068.6	3063.6	3060.2	3053.6	3050.2	3046.9	3040.2	3035.2
5°	3073.6	3068.6	3080.3	3090.3	3100.3	3110.3	3115.3	3122.0	3115.3	3102.0
7.5°	3003.5	3000.1	3025.2	3055.2	3100.3	3138.7	3180.4	3203.8	3205.5	3200.5
10°	2998.5	2990.1	3015.2	3051.9	3110.3	3178.8	3252.2	3302.3	3309.0	3330.7
12.5°	3076.9	3068.6	3103.6	3143.7	3203.8	3275.6	3365.8	3435.9	3445.9	3476.0
15°	3208.8	3197.1	3237.2	3289.0	3365.8	3447.6	3542.7	3606.2	3614.5	3651.3
17.5°	3362.4	3350.7	3397.5	3452.6	3536.1	3647.9	3758.1	3828.2	3838.2	3861.6
20°	3559.4	3544.4	3581.1	3631.2	3719.7	3853.3	3985.2	4085.3	4083.7	4083.7
22.5°	3788.2	3764.8	3796.5	3836.6	3920.0	4082.0	4257.3	4375.8	4375.8	4329.1
25°	4033.6	4010.2	4045.3	4082.0	4155.5	4339.1	4544.4	4691.4	4698.0	4617.9
27.5°	4340.8	4310.7	4337.4	4380.8	4424.2	4611.2	4855.0	5025.3	5028.6	4905.1
30°	4931.8	4846.6	4763.2	4716.4	4736.4	4921.8	5182.2	5370.9	5387.6	5217.3
32.5°	6013.6	5996.9	5703.1	5319.1	5118.8	5255.7	5547.8	5774.9	5784.9	5566.2
35°	7694.8	7674.8	7202.3	6471.1	5818.3	5703.1	5991.9	6260.7	6254.0	6007.0
37.5°	9701.6	9683.3	9060.5	8082.2	7025.4	6379.3	6564.6	6846.7	6888.5	6564.6
40°	11416.2	11347.8	10953.8	10010.5	8628.1	7501.2	7379.3	7566.3	7609.7	7225.7
42.5°	12715.1	12656.7	12456.3	11867.0	10568.1	9160.7	8339.3	8411.1	8459.5	7998.7
45°	13387.9	13374.6	13454.7	13399.6	12544.8	11197.5	9711.6	9412.8	9431.2	8855.2
47.5°	13483.1	13476.4	13842.0	14359.6	14244.4	13494.8	11473.0	10661.6	10596.5	9821.8
50°	12922.1	12908.8	13610.0	14580.0	15379.7	15424.8	13473.1	12069.0	11925.4	10821.9
52.5°	11130.7	11127.4	12279.4	13893.8	15778.7	17114.3	15449.8	13615.0	13374.6	11880.3
55°	8564.7	8626.4	9947.0	11855.3	15050.8	17927.4	17224.5	15331.3	14962.3	12945.5
57.5°	6067.1	6157.2	7462.8	9162.4	12793.6	17446.5	18424.9	17050.9	16653.5	14007.3
60°	3258.9	3339.1	4646.3	6674.8	9518.0	15653.5	19057.6	18543.4	18167.8	15015.7
62.5°	1941.7	1968.4	2509.3	4309.0	6437.7	11958.8	18788.8	19680.4	19371.5	15862.2
65°	1394.1	1399.1	1671.2	2631.2	3908.4	7265.8	16904.0	20224.6	20129.5	16499.9
67.5°	1173.7	1170.3	1283.9	1748.0	2662.9	3639.6	12955.5	19455.0	19859.0	16904.0
70°	1006.7	1011.7	1145.3	1280.5	2001.8	2060.2	6441.0	16939.0	17800.5	17010.8
72.5°	749.6	766.3	889.9	1167.0	1510.9	1417.4	2223.8	12559.8	14117.5	16027.5
75°	529.2	537.6	626.1	981.7	1126.9	1031.8	1135.3	6492.8	8489.5	12287.7
77.5°	407.4	422.4	474.1	686.2	1110.2	724.6	694.5	2247.2	3452.6	7422.7
80°	220.4	247.1	342.3	495.8	779.7	512.5	343.9	894.9	1170.3	3470.9
82.5°	113.5	126.9	238.7	357.3	444.1	447.4	170.3	372.3	482.5	1071.8
85°	45.1	55.1	160.3	197.0	228.7	220.4	76.8	150.3	173.6	297.2
87.5°	10.0	16.7	58.4	45.1	43.4	46.7	18.4	35.1	33.4	35.1
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°
2995.1	0°	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1
3015.2	2.5°	3013.5	3006.8	2988.5	2968.4	2945.0	2931.7	2923.3	2921.7	2910.0	2901.6
3081.9	5°	3063.6	3056.9	3021.8	2980.1	2935.0	2900.0	2866.6	2836.5	2793.1	2784.8
3178.8	7.5°	3163.8	3145.4	3088.6	3031.9	2946.7	2844.9	2721.3	2579.4	2452.5	2414.1
3307.3	10°	3287.3	3262.3	3190.5	3090.3	2901.6	2624.5	2325.6	2048.5	1828.1	1766.4
3459.3	12.5°	3427.5	3405.8	3310.7	3125.4	2713.0	2210.5	1753.0	1409.1	1195.4	1142.0
3621.2	15°	3594.5	3562.8	3430.9	3071.9	2375.7	1679.5	1203.7	1000.0	923.2	913.2
3806.5	17.5°	3771.5	3719.7	3537.7	2879.9	1921.6	1193.7	929.9	871.5	838.1	828.1
3993.5	20°	3933.4	3866.6	3601.2	2589.4	1435.8	929.9	833.1	794.7	764.6	753.0
4180.5	22.5°	4095.3	4000.2	3601.2	2193.8	1076.8	824.7	764.6	729.6	694.5	679.5
4380.8	25°	4264.0	4137.1	3537.7	1753.0	866.5	756.3	699.5	661.1	631.1	612.7
4571.2	27.5°	4427.6	4252.3	3392.5	1335.6	771.3	696.2	639.4	602.7	574.3	561.0
4778.2	30°	4582.8	4365.8	3188.8	1013.4	709.5	637.8	584.3	552.6	524.2	510.9
5047.0	32.5°	4793.2	4509.4	2971.8	831.4	656.1	582.7	534.2	504.2	479.2	469.1
5395.9	35°	5085.4	4721.4	2784.8	816.4	611.0	537.6	489.2	460.8	435.7	427.4
5846.7	37.5°	5499.4	5063.7	2686.3	916.6	574.3	497.5	452.4	422.4	399.0	392.3
6419.3	40°	6010.3	5527.8	2739.7	1016.7	549.3	462.5	419.1	389.0	369.0	360.6
7077.1	42.5°	6616.3	6100.4	3035.2	1093.5	532.6	432.4	387.3	353.9	340.6	337.2
7823.4	45°	7312.5	6729.9	3487.6	1175.3	505.9	404.0	355.6	330.6	320.5	318.9
8634.8	47.5°	8103.9	7421.0	4011.9	1277.2	479.2	377.3	330.6	313.9	305.5	302.2
9481.2	50°	8888.6	8117.2	4551.1	1334.0	457.5	352.3	310.5	297.2	290.5	288.8
10376.1	52.5°	9710.0	8833.5	4986.9	1280.5	439.1	332.2	293.8	283.8	277.1	275.5
11200.9	55°	10493.0	9412.8	5062.0	1086.9	402.4	312.2	275.5	270.5	262.1	262.1
12037.3	57.5°	11167.5	9703.3	4531.1	798.0	365.6	282.1	257.1	252.1	245.4	243.8
12791.9	60°	11786.9	9619.8	3497.7	537.6	325.6	252.1	233.7	230.4	223.7	215.4
13448.0	62.5°	12135.8	9252.5	2392.4	350.6	285.5	220.4	207.0	205.4	190.3	173.6
13933.9	65°	12267.7	8497.9	1492.6	255.4	238.7	188.7	178.6	175.3	153.6	135.2
14209.3	67.5°	12152.5	7255.8	753.0	202.0	188.7	156.9	146.9	146.9	131.9	115.2
14192.6	70°	11691.7	5439.3	317.2	161.9	145.2	120.2	120.2	126.9	111.9	93.5
13456.4	72.5°	10691.6	3659.6	168.6	123.5	108.5	85.1	98.5	103.5	88.5	70.1
11013.9	75°	8499.6	2232.2	116.9	91.8	68.5	60.1	75.1	78.5	60.1	46.7
7551.3	77.5°	5813.3	1282.2	78.5	58.4	43.4	35.1	51.8	48.4	31.7	21.7
2911.7	80°	2552.7	534.2	45.1	26.7	16.7	13.4	18.4	13.4	10.0	6.7
399.0	82.5°	298.8	125.2	16.7	10.0	6.7	3.3	1.7	0.0	0.0	0.0
121.9	85°	61.8	15.0	8.3	3.3	1.7	0.0	0.0	0.0	0.0	0.0
21.7	87.5°	11.7	3.3	1.7	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>
2995.1
2910.0
2781.4
2395.8
1743.0
1126.9
903.2
823.1
746.3
671.1
606.0
561.0
512.5
469.1
427.4
390.7
358.9
337.2
317.2
302.2
288.8
275.5
260.4
242.1
213.7
170.3
133.6
113.5
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