

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: P954946

Luminaire Tested: **GALN-SB8A-750-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954946  
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-SB8A-750-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

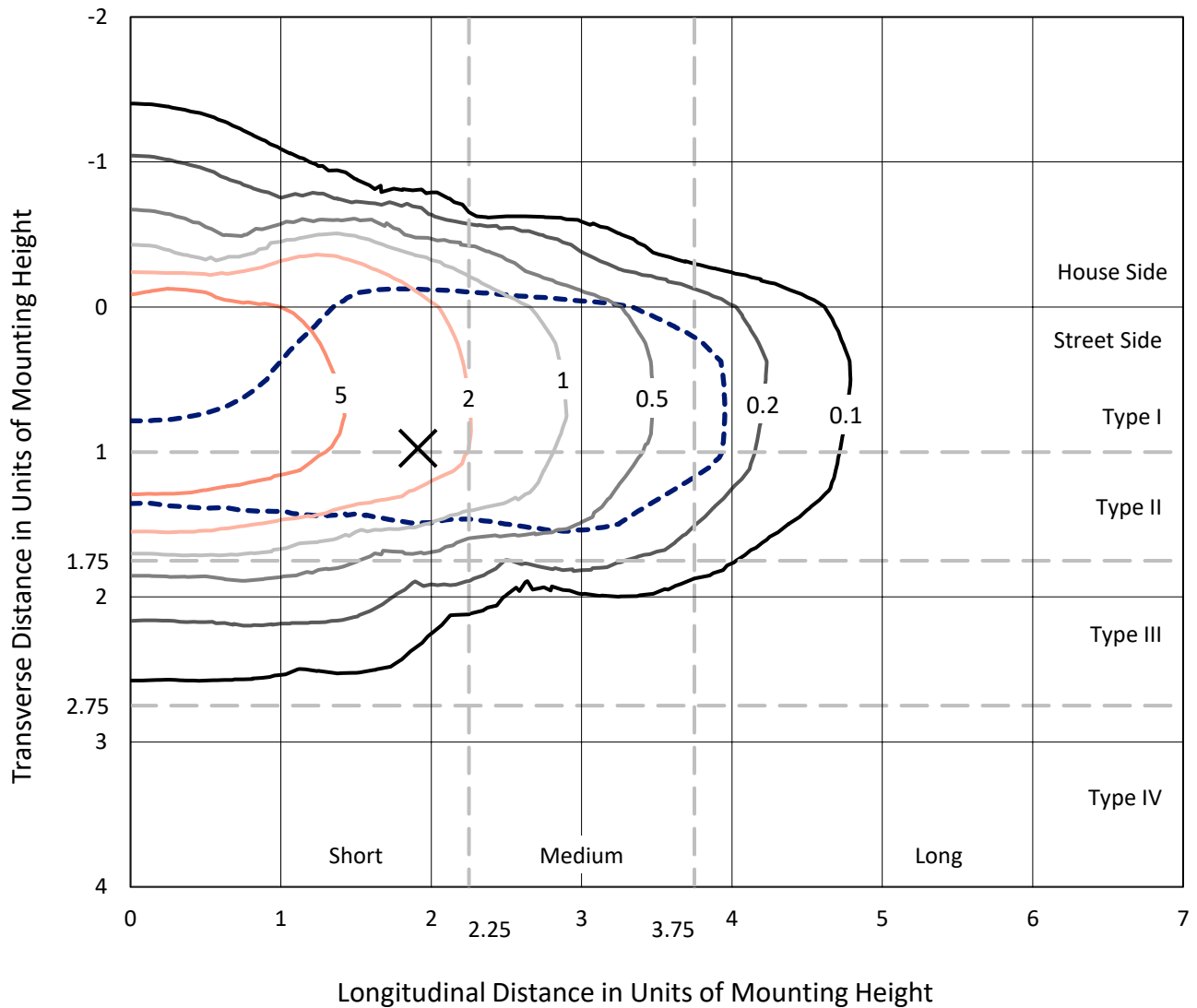
Lumens per Lamp: N/A  
Luminaire Lumens: 29328 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

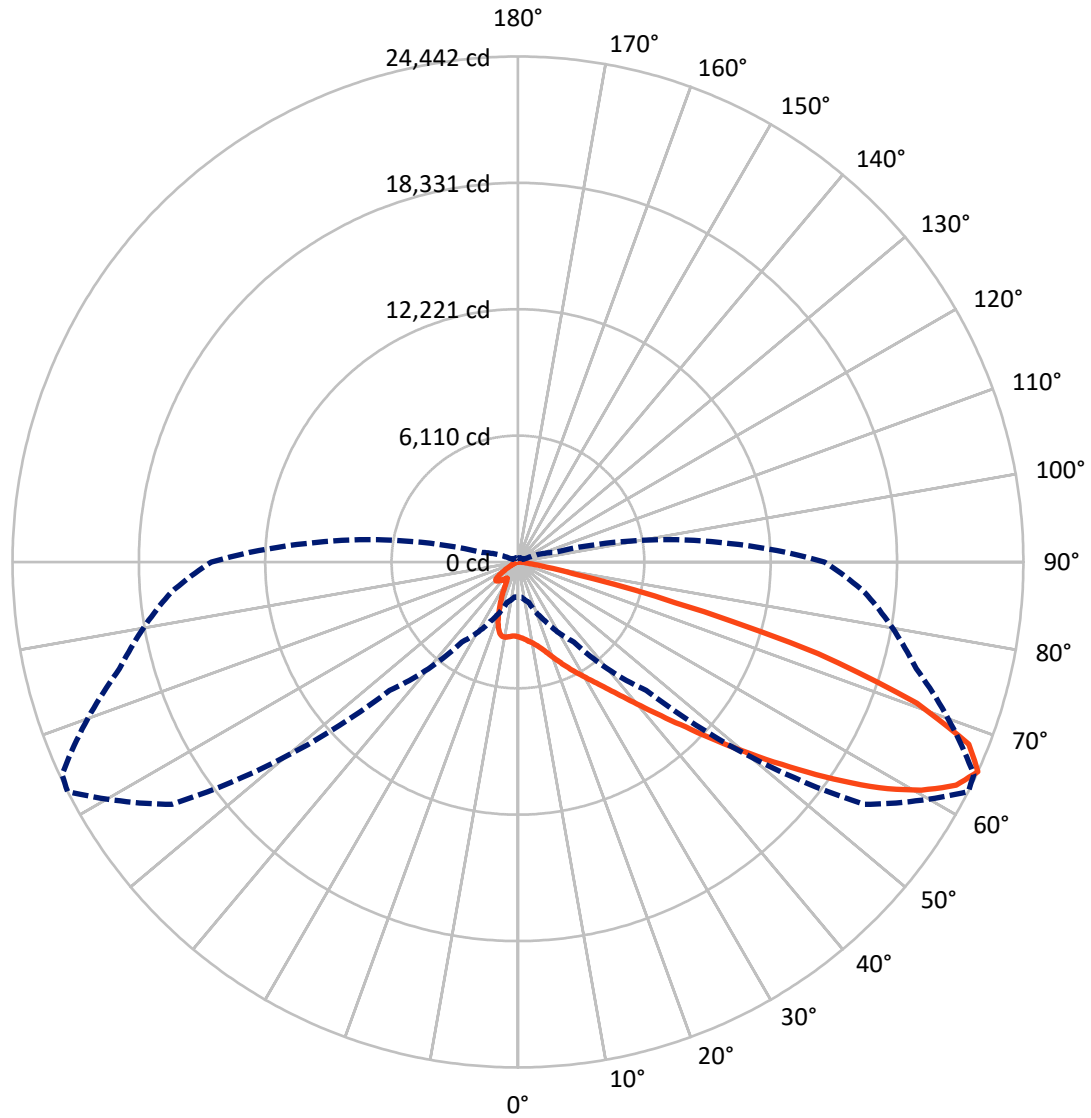
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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
<b>House Side</b>	Lumens	4311.0	0.0	4311.0
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	25017.0	0.0	25017.0
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	29328.0	0.0	29328.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.0	1.2
10°-20°	946.3	3.2
20°-30°	1647.7	5.6
30°-40°	2969.7	10.1
40°-50°	5890.0	20.1
50°-60°	8023.1	27.4
60°-70°	6404.0	21.8
70°-80°	2897.9	9.9
80°-90°	208.3	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°	29328.0	100.0
0°-180°	29328.0	100.0

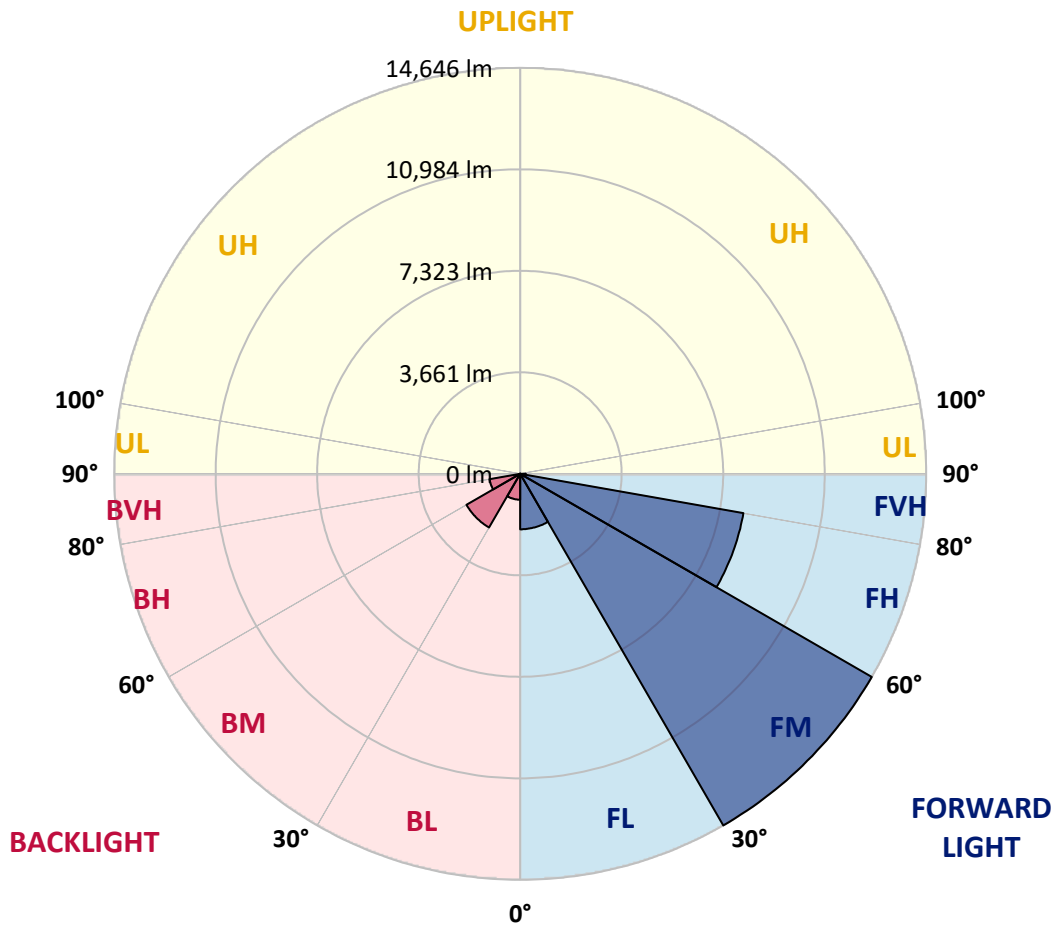


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2002.0	6.8			
FM (30°-60°)	14645.7	49.9			
FH (60°-80°)	8176.5	27.9			G4/12000
FVH (80°-90°)	192.8	0.7			G2/225
BL (0°-30°)	933.0	3.2	B2/1000		
BM (30°-60°)	2237.1	7.6	B2/2500		
BH (60°-80°)	1125.4	3.8	B3/2500		G3/2500
BVH (80°-90°)	15.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	3619.6	3619.6	3619.6	3619.6	3619.6	3619.6	3619.6	3619.6	3619.6	3619.6
2.5°	3704.4	3694.3	3708.4	3702.4	3698.3	3690.2	3686.2	3682.2	3674.1	3668.1
5°	3714.5	3708.4	3722.5	3734.6	3746.7	3758.8	3764.9	3773.0	3764.9	3748.8
7.5°	3629.7	3625.7	3655.9	3692.3	3746.7	3793.1	3843.6	3871.8	3873.9	3867.8
10°	3623.7	3613.6	3643.8	3688.2	3758.8	3841.6	3930.3	3990.9	3998.9	4025.2
12.5°	3718.5	3708.4	3750.8	3799.2	3871.8	3958.6	4067.5	4152.3	4164.4	4200.7
15°	3877.9	3863.8	3912.2	3974.7	4067.5	4166.4	4281.4	4358.1	4368.2	4412.6
17.5°	4063.5	4049.4	4105.9	4172.5	4273.3	4408.5	4541.7	4626.4	4638.5	4666.8
20°	4301.6	4283.4	4327.8	4388.3	4495.3	4656.7	4816.1	4937.1	4935.1	4935.1
22.5°	4578.0	4549.8	4588.1	4636.5	4737.4	4933.1	5145.0	5288.2	5288.2	5231.7
25°	4874.6	4846.3	4888.7	4933.1	5021.9	5243.8	5492.0	5669.5	5677.6	5580.8
27.5°	5245.8	5209.5	5241.8	5294.3	5346.7	5572.7	5867.3	6073.1	6077.1	5927.8
30°	5960.1	5857.2	5756.3	5699.8	5724.0	5948.0	6262.7	6490.7	6510.9	6305.1
32.5°	7267.5	7247.3	6892.2	6428.2	6186.1	6351.5	6704.6	6979.0	6991.1	6726.8
35°	9299.3	9275.0	8704.1	7820.3	7031.4	6892.2	7241.3	7566.1	7558.0	7259.4
37.5°	11724.5	11702.3	10949.7	9767.3	8490.2	7709.4	7933.3	8274.3	8324.7	7933.3
40°	13796.6	13713.8	13237.7	12097.7	10427.1	9065.2	8917.9	9143.9	9196.4	8732.3
42.5°	15366.3	15295.7	15053.5	14341.3	12771.6	11070.7	10078.1	10164.8	10223.3	9666.5
45°	16179.4	16163.2	16260.1	16193.5	15160.5	13532.2	11736.6	11375.4	11397.6	10701.5
47.5°	16294.4	16286.3	16728.2	17353.6	17214.4	16308.5	13865.2	12884.6	12805.9	11869.7
50°	15616.5	15600.3	16447.7	17620.0	18586.4	18640.9	16282.3	14585.5	14411.9	13078.3
52.5°	13451.5	13447.5	14839.7	16790.7	19068.6	20682.7	18671.2	16453.8	16163.2	14357.5
55°	10350.4	10425.1	12021.0	14327.2	18188.9	21665.3	20815.9	18527.9	18082.0	15644.7
57.5°	7332.1	7441.0	9018.8	11072.8	15461.1	21084.2	22266.6	20606.1	20125.9	16927.9
60°	3938.4	4035.3	5615.1	8066.5	11502.5	18917.3	23031.3	22409.8	21955.9	18146.6
62.5°	2346.5	2378.8	3032.5	5207.5	7780.0	14452.3	22706.4	23783.8	23410.6	19169.5
65°	1684.7	1690.8	2019.6	3179.8	4723.3	8780.7	20428.5	24441.6	24326.6	19940.2
67.5°	1418.4	1414.4	1551.6	2112.5	3218.1	4398.4	15656.8	23511.4	23999.7	20428.5
70°	1216.6	1222.7	1384.1	1547.5	2419.1	2489.8	7784.0	20470.9	21512.0	20557.6
72.5°	905.9	926.1	1075.4	1410.3	1826.0	1713.0	2687.5	15178.6	17061.1	19369.3
75°	639.6	649.7	756.6	1186.4	1361.9	1246.9	1372.0	7846.6	10259.7	14849.8
77.5°	492.3	510.5	573.0	829.2	1341.7	875.7	839.3	2715.7	4172.5	8970.4
80°	266.3	298.6	413.6	599.2	942.2	619.4	415.6	1081.5	1414.4	4194.7
82.5°	137.2	153.3	288.5	431.8	536.7	540.7	205.8	449.9	583.1	1295.3
85°	54.5	66.6	193.7	238.1	276.4	266.3	92.8	181.6	209.8	359.1
87.5°	12.1	20.2	70.6	54.5	52.5	56.5	22.2	42.4	40.4	42.4
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°
3619.6	0°	3619.6	3619.6	3619.6	3619.6	3619.6	3619.6	3619.6	3619.6	3619.6	3619.6
3643.8	2.5°	3641.8	3633.8	3611.6	3587.3	3559.1	3543.0	3532.9	3530.9	3516.7	3506.6
3724.5	5°	3702.4	3694.3	3651.9	3601.5	3547.0	3504.6	3464.3	3428.0	3375.5	3365.4
3841.6	7.5°	3823.4	3801.2	3732.6	3664.0	3561.1	3438.0	3288.7	3117.2	2963.9	2917.5
3996.9	10°	3972.7	3942.5	3855.7	3734.6	3506.6	3171.7	2810.6	2475.6	2209.3	2134.7
4180.5	12.5°	4142.2	4116.0	4001.0	3777.0	3278.6	2671.3	2118.5	1702.9	1444.6	1380.1
4376.2	15°	4344.0	4305.6	4146.2	3712.4	2871.1	2029.7	1454.7	1208.6	1115.7	1103.6
4600.2	17.5°	4557.8	4495.3	4275.4	3480.4	2322.3	1442.6	1123.8	1053.2	1012.9	1000.7
4826.2	20°	4753.5	4672.8	4352.0	3129.3	1735.2	1123.8	1006.8	960.4	924.1	910.0
5052.1	22.5°	4949.2	4834.2	4352.0	2651.2	1301.4	996.7	924.1	881.7	839.3	821.2
5294.3	25°	5153.0	4999.7	4275.4	2118.5	1047.2	914.0	845.4	799.0	762.7	740.5
5524.3	27.5°	5350.8	5138.9	4099.8	1614.1	932.1	841.4	772.8	728.4	694.1	677.9
5774.5	30°	5538.4	5276.1	3853.7	1224.7	857.5	770.7	706.2	667.8	633.5	617.4
6099.3	32.5°	5792.6	5449.6	3591.4	1004.8	792.9	704.2	645.6	609.3	579.1	567.0
6521.0	35°	6145.7	5705.9	3365.4	986.6	738.5	649.7	591.2	556.9	526.6	516.5
7065.7	37.5°	6646.1	6119.5	3246.4	1107.7	694.1	601.3	546.8	510.5	482.2	474.1
7757.8	40°	7263.5	6680.4	3310.9	1228.7	663.8	558.9	506.4	470.1	445.9	435.8
8552.7	42.5°	7995.9	7372.4	3668.1	1321.5	643.6	522.6	468.1	427.7	411.6	407.6
9454.6	45°	8837.2	8133.1	4214.8	1420.4	611.3	488.3	429.8	399.5	387.4	385.4
10435.2	47.5°	9793.6	8968.4	4848.4	1543.5	579.1	456.0	399.5	379.3	369.2	365.2
11458.1	50°	10741.9	9809.7	5500.1	1612.1	552.8	425.7	375.3	359.1	351.1	349.1
12539.6	52.5°	11734.5	10675.3	6026.7	1547.5	530.6	401.5	355.1	343.0	334.9	332.9
13536.3	55°	12680.8	11375.4	6117.5	1313.5	486.2	377.3	332.9	326.9	316.8	316.8
14547.1	57.5°	13495.9	11726.5	5475.8	964.4	441.9	341.0	310.7	304.7	296.6	294.6
15459.1	60°	14244.5	11625.6	4226.9	649.7	393.4	304.7	282.5	278.4	270.4	260.3
16252.0	62.5°	14666.2	11181.7	2891.3	423.7	345.0	266.3	250.2	248.2	230.0	209.8
16839.1	65°	14825.5	10269.7	1803.8	308.7	288.5	228.0	215.9	211.9	185.6	163.4
17172.1	67.5°	14686.3	8768.6	910.0	244.1	228.0	189.7	177.6	177.6	159.4	139.2
17151.9	70°	14129.5	6573.4	383.3	195.7	175.5	145.3	145.3	153.3	135.2	113.0
16262.1	72.5°	12920.9	4422.6	203.8	149.3	131.1	102.9	119.0	125.1	106.9	84.7
13310.3	75°	10271.8	2697.6	141.2	111.0	82.7	72.6	90.8	94.8	72.6	56.5
9125.7	77.5°	7025.4	1549.5	94.8	70.6	52.5	42.4	62.5	58.5	38.3	26.2
3518.7	80°	3085.0	645.6	54.5	32.3	20.2	16.1	22.2	16.1	12.1	8.1
482.2	82.5°	361.2	151.3	20.2	12.1	8.1	4.0	2.0	0.0	0.0	0.0
147.3	85°	74.7	18.2	10.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0
26.2	87.5°	14.1	4.0	2.0	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>
3619.6
3516.7
3361.4
2895.3
2106.4
1361.9
1091.5
994.7
901.9
811.1
732.4
677.9
619.4
567.0
516.5
472.1
433.8
407.6
383.3
365.2
349.1
332.9
314.8
292.6
258.3
205.8
161.4
137.2
111.0
84.7
54.5
28.2
8.1
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