

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: P952867

Luminaire Tested: **GALN-SB6C-830-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952867  
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-SB6C-830-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

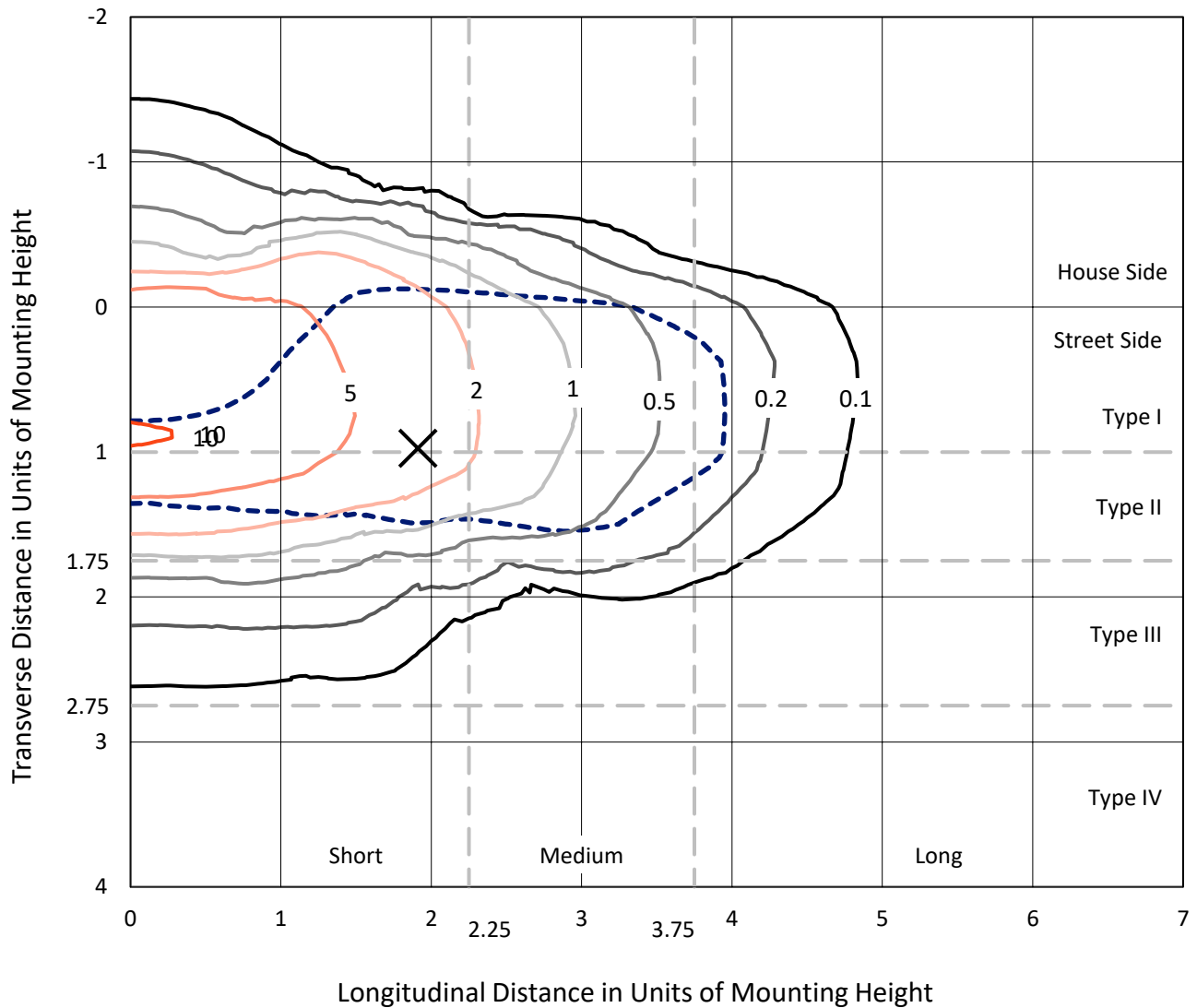
Lumens per Lamp: N/A  
Luminaire Lumens: 31186 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

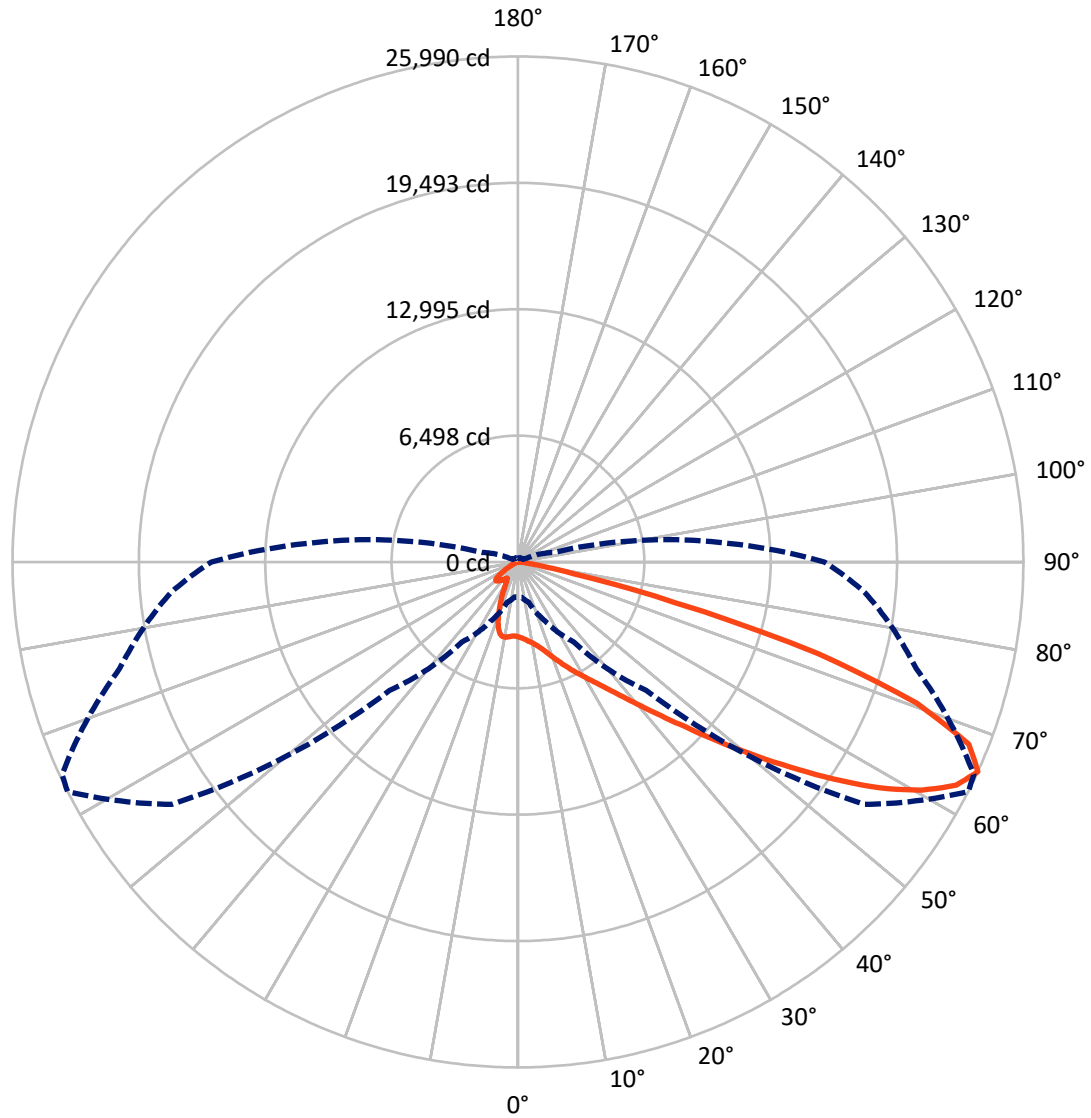
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	4584.1	0.0	4584.1
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	26601.9	0.0	26601.9
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	31186.0	0.0	31186.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	362.6	1.2
10°-20°	1006.2	3.2
20°-30°	1752.1	5.6
30°-40°	3157.9	10.1
40°-50°	6263.1	20.1
50°-60°	8531.4	27.4
60°-70°	6809.7	21.8
70°-80°	3081.5	9.9
80°-90°	221.5	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°	31186.0	100.0
0°-180°	31186.0	100.0

**Coefficient of Utilization**



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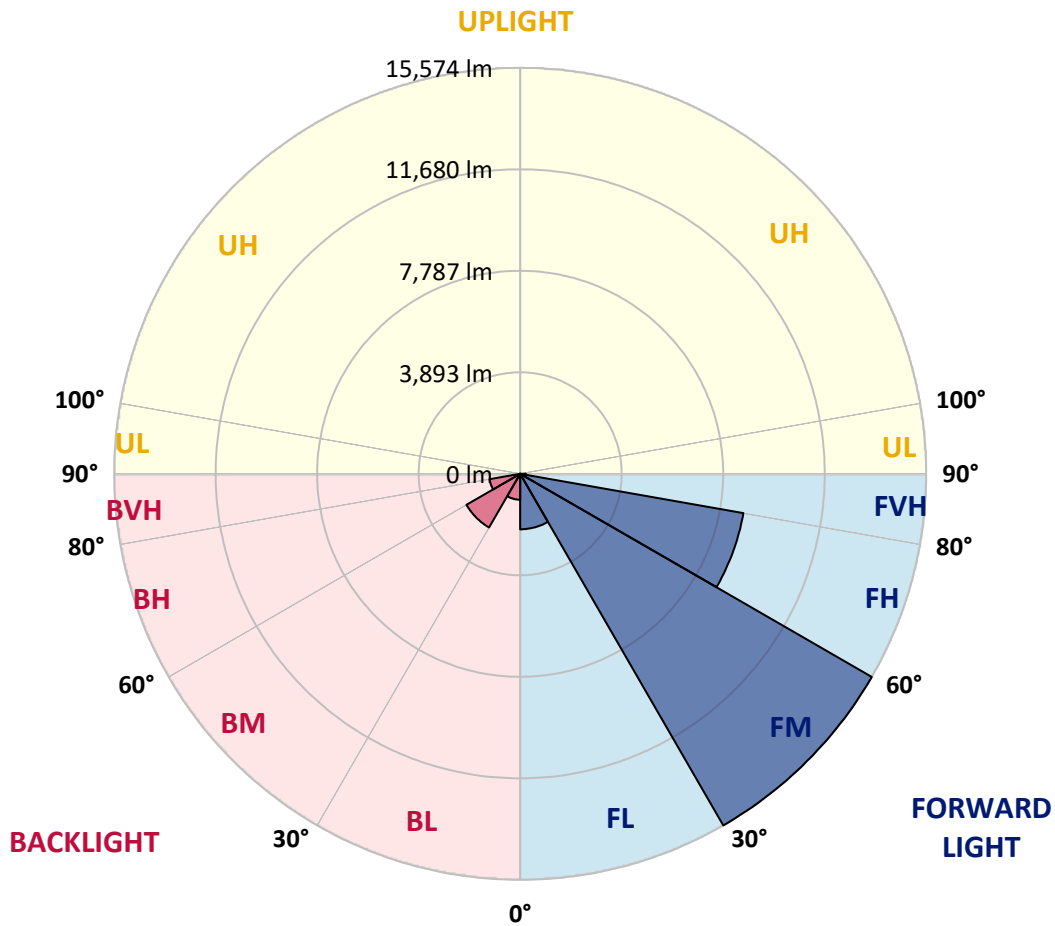
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2128.8	6.8			
FM (30°-60°)	15573.5	49.9			
FH (60°-80°)	8694.5	27.9			G4/12000
FVH (80°-90°)	205.1	0.7			G2/225
BL (0°-30°)	992.1	3.2	B2/1000		
BM (30°-60°)	2378.9	7.6	B2/2500		
BH (60°-80°)	1196.7	3.8	B3/2500		G3/2500
BVH (80°-90°)	16.4	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°	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9
2.5°	3939.1	3928.3	3943.3	3936.9	3932.6	3924.0	3919.7	3915.5	3906.9	3900.4
5°	3949.8	3943.3	3958.4	3971.2	3984.1	3997.0	4003.4	4012.0	4003.4	3986.3
7.5°	3859.7	3855.4	3887.6	3926.2	3984.1	4033.5	4087.1	4117.1	4119.3	4112.8
10°	3853.2	3842.5	3874.7	3921.9	3997.0	4084.9	4179.3	4243.7	4252.3	4280.2
12.5°	3954.1	3943.3	3988.4	4039.9	4117.1	4209.4	4325.2	4415.3	4428.2	4466.8
15°	4123.6	4108.5	4160.0	4226.5	4325.2	4430.4	4552.7	4634.2	4644.9	4692.1
17.5°	4320.9	4305.9	4366.0	4436.8	4544.1	4687.8	4829.4	4919.5	4932.4	4962.4
20°	4574.1	4554.8	4602.0	4666.4	4780.1	4951.7	5121.2	5249.9	5247.8	5247.8
22.5°	4868.0	4838.0	4878.8	4930.2	5037.5	5245.6	5470.9	5623.2	5623.2	5563.2
25°	5183.4	5153.4	5198.4	5245.6	5340.0	5576.0	5839.9	6028.7	6037.3	5934.3
27.5°	5578.2	5539.6	5573.9	5629.7	5685.4	5925.7	6239.0	6457.8	6462.1	6303.3
30°	6337.7	6228.2	6121.0	6060.9	6086.6	6324.8	6659.5	6901.9	6923.4	6704.5
32.5°	7727.9	7706.5	7328.9	6835.4	6578.0	6753.9	7129.3	7421.1	7434.0	7152.9
35°	9888.4	9862.6	9255.5	8315.8	7476.9	7328.9	7700.0	8045.4	8036.9	7719.3
37.5°	12467.2	12443.6	11643.4	10386.1	9028.1	8197.8	8435.9	8798.5	8852.1	8435.9
40°	14670.6	14582.6	14076.3	12864.1	11087.7	9639.5	9482.9	9723.2	9779.0	9285.5
42.5°	16339.8	16264.7	16007.2	15249.9	13580.7	11772.1	10716.5	10808.8	10871.0	10278.9
45°	17204.4	17187.2	17290.2	17219.4	16120.9	14389.5	12480.1	12096.1	12119.7	11379.5
47.5°	17326.7	17318.1	17787.9	18453.0	18305.0	17341.7	14743.5	13700.9	13617.2	12621.7
50°	16605.8	16588.6	17489.7	18736.2	19763.9	19821.8	17313.8	15509.5	15325.0	13906.8
52.5°	14303.7	14299.4	15779.8	17854.5	20276.7	21993.0	19854.0	17496.2	17187.2	15267.0
55°	11006.2	11085.6	12782.6	15234.9	19341.3	23037.9	22134.6	19701.7	19227.5	16635.8
57.5°	7796.6	7912.4	9590.2	11774.2	16440.6	22420.0	23677.2	21911.5	21400.9	18000.3
60°	4187.9	4290.9	5970.8	8577.5	12231.2	20115.8	24490.3	23829.5	23346.8	19296.2
62.5°	2495.2	2529.5	3224.6	5537.4	8272.9	15367.9	24144.9	25290.6	24893.7	20383.9
65°	1791.5	1797.9	2147.6	3381.2	5022.5	9337.0	21722.7	25990.0	25867.7	21203.5
67.5°	1508.3	1504.0	1649.9	2246.3	3422.0	4677.1	16648.7	25001.0	25520.2	21722.7
70°	1293.7	1300.1	1471.8	1645.6	2572.4	2647.5	8277.2	21767.8	22874.8	21860.0
72.5°	963.3	984.8	1143.5	1499.7	1941.6	1821.5	2857.7	16140.2	18141.9	20596.3
75°	680.1	690.8	804.5	1261.5	1448.2	1325.9	1458.9	8343.7	10909.6	15790.5
77.5°	523.5	542.8	609.3	881.8	1426.7	931.1	892.5	2887.8	4436.8	9538.7
80°	283.2	317.5	439.8	637.2	1001.9	658.7	442.0	1150.0	1504.0	4460.4
82.5°	145.9	163.1	306.8	459.1	570.7	575.0	218.8	478.4	620.0	1377.4
85°	57.9	70.8	206.0	253.2	293.9	283.2	98.7	193.1	223.1	381.9
87.5°	12.9	21.5	75.1	57.9	55.8	60.1	23.6	45.1	42.9	45.1
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°
3848.9	0°	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9
3874.7	2.5°	3872.5	3864.0	3840.4	3814.6	3784.6	3767.4	3756.7	3754.5	3739.5	3728.8
3960.5	5°	3936.9	3928.3	3883.3	3829.6	3771.7	3726.7	3683.7	3645.1	3589.3	3578.6
4084.9	7.5°	4065.6	4042.0	3969.1	3896.1	3786.7	3655.9	3497.1	3314.7	3151.7	3102.3
4250.1	10°	4224.4	4192.2	4100.0	3971.2	3728.8	3372.7	2988.6	2632.5	2349.3	2269.9
4445.4	12.5°	4404.6	4376.7	4254.4	4016.3	3486.4	2840.6	2252.7	1810.8	1536.1	1467.5
4653.5	15°	4619.2	4578.4	4408.9	3947.6	3053.0	2158.3	1546.9	1285.1	1186.4	1173.6
4891.6	17.5°	4846.6	4780.1	4546.2	3700.9	2469.4	1534.0	1195.0	1119.9	1077.0	1064.1
5131.9	20°	5054.7	4968.9	4627.7	3327.6	1845.1	1195.0	1070.6	1021.2	982.6	967.6
5372.2	22.5°	5262.8	5140.5	4627.7	2819.1	1383.8	1059.9	982.6	937.6	892.5	873.2
5629.7	25°	5479.5	5316.4	4546.2	2252.7	1113.5	971.9	898.9	849.6	811.0	787.4
5874.2	27.5°	5689.7	5464.5	4359.6	1716.4	991.2	894.7	821.7	774.5	738.0	720.9
6140.3	30°	5889.3	5610.4	4097.8	1302.3	911.8	819.6	750.9	710.1	673.7	656.5
6485.7	32.5°	6159.6	5794.9	3818.9	1068.4	843.2	748.8	686.5	647.9	615.7	602.9
6934.1	35°	6535.0	6067.3	3578.6	1049.1	785.2	690.8	628.6	592.1	560.0	549.2
7513.4	37.5°	7067.1	6507.2	3452.0	1177.9	738.0	639.3	581.4	542.8	512.8	504.2
8249.3	40°	7723.6	7103.6	3520.7	1306.6	705.9	594.3	538.5	499.9	474.1	463.4
9094.6	42.5°	8502.4	7839.5	3900.4	1405.3	684.4	555.7	497.7	454.8	437.7	433.4
10053.6	45°	9397.1	8648.3	4481.9	1510.4	650.1	519.2	457.0	424.8	411.9	409.8
11096.3	47.5°	10414.0	9536.5	5155.5	1641.3	615.7	484.9	424.8	403.3	392.6	388.3
12184.0	50°	11422.4	10431.2	5848.5	1714.2	587.9	452.7	399.1	381.9	373.3	371.2
13334.0	52.5°	12478.0	11351.6	6408.5	1645.6	564.3	426.9	377.6	364.7	356.1	354.0
14393.8	55°	13484.2	12096.1	6505.0	1396.7	517.1	401.2	354.0	347.6	336.8	336.8
15468.7	57.5°	14350.9	12469.4	5822.8	1025.5	469.9	362.6	330.4	324.0	315.4	313.2
16438.5	60°	15146.9	12362.1	4494.7	690.8	418.4	324.0	300.4	296.1	287.5	276.8
17281.6	62.5°	15595.3	11890.1	3074.4	450.5	366.9	283.2	266.0	263.9	244.6	223.1
17905.9	65°	15764.8	10920.4	1918.0	328.3	306.8	242.4	229.6	225.3	197.4	173.8
18259.9	67.5°	15616.7	9324.1	967.6	259.6	242.4	201.7	188.8	188.8	169.5	148.0
18238.5	70°	15024.6	6989.9	407.6	208.1	186.7	154.5	154.5	163.1	143.7	120.1
17292.3	72.5°	13739.5	4702.8	216.7	158.8	139.5	109.4	126.6	133.0	113.7	90.1
14153.5	75°	10922.5	2868.5	150.2	118.0	88.0	77.2	96.5	100.8	77.2	60.1
9703.9	77.5°	7470.5	1647.7	100.8	75.1	55.8	45.1	66.5	62.2	40.8	27.9
3741.7	80°	3280.4	686.5	57.9	34.3	21.5	17.2	23.6	17.2	12.9	8.6
512.8	82.5°	384.0	160.9	21.5	12.9	8.6	4.3	2.1	0.0	0.0	0.0
156.6	85°	79.4	19.3	10.7	4.3	2.1	0.0	0.0	0.0	0.0	0.0
27.9	87.5°	15.0	4.3	2.1	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>
3848.9
3739.5
3574.3
3078.7
2239.9
1448.2
1160.7
1057.7
959.0
862.5
778.8
720.9
658.7
602.9
549.2
502.0
461.3
433.4
407.6
388.3
371.2
354.0
334.7
311.1
274.6
218.8
171.6
145.9
118.0
90.1
57.9
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