

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: P953835

Luminaire Tested: **GALN-SB7B-735-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953835  
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-SB7B-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

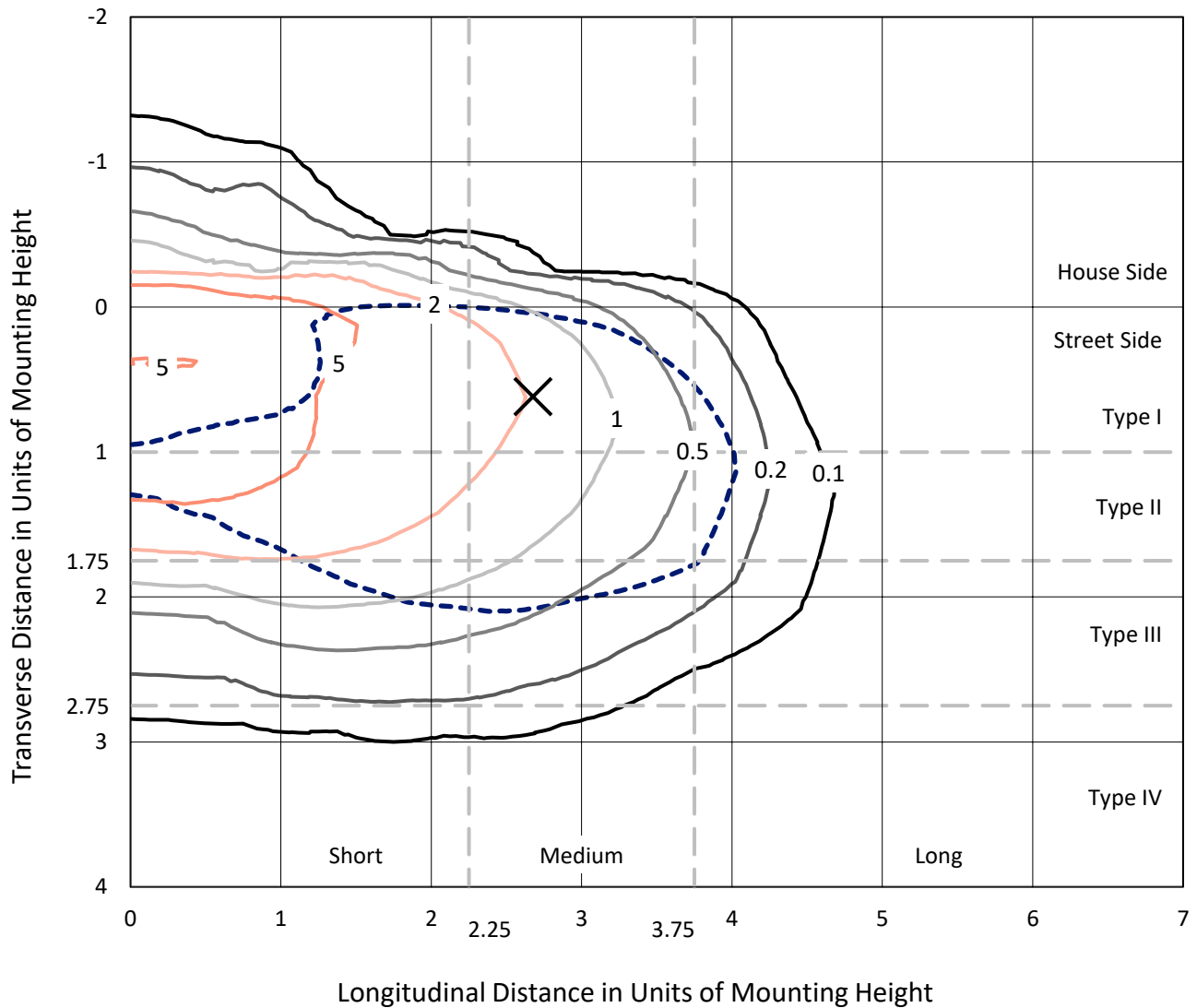
Lumens per Lamp: N/A  
Luminaire Lumens: 33340 lumens  
Efficiency: N/A  
Efficacy: 129.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

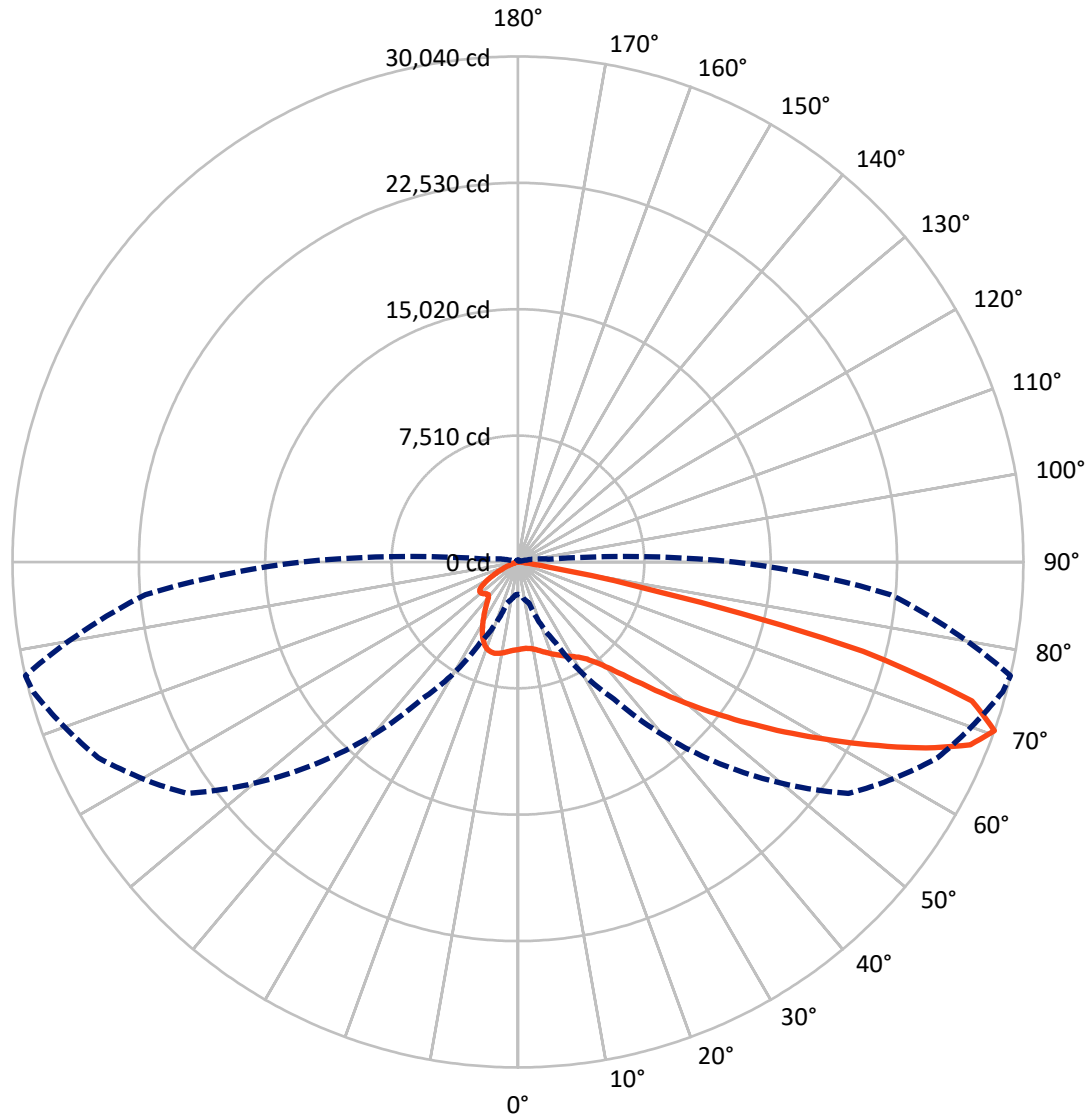
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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
<b>House Side</b>	Lumens	3514.5	0.0	3514.5
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	29825.5	0.0	29825.5
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	33340.0	0.0	33340.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	448.2	1.3
10°-20°	1064.0	3.2
20°-30°	1645.7	4.9
30°-40°	2986.1	9.0
40°-50°	5636.7	16.9
50°-60°	8144.5	24.4
60°-70°	8669.6	26.0
70°-80°	4594.3	13.8
80°-90°	150.8	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°	33340.0	100.0
0°-180°	33340.0	100.0

**Coefficient of Utilization**



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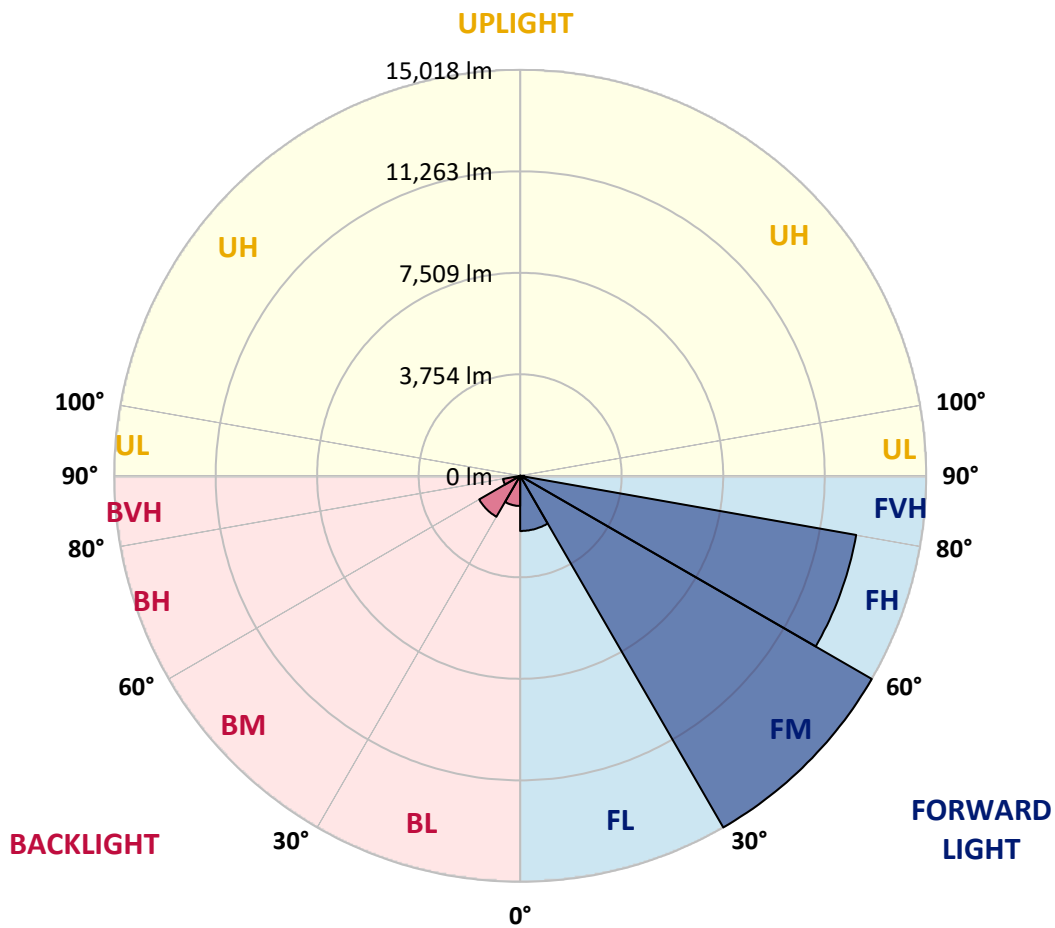
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2041.2	6.1			
FM (30°-60°)	15017.8	45.0			
FH (60°-80°)	12619.7	37.9			G5
FVH (80°-90°)	146.8	0.4			G2/225
BL (0°-30°)	1116.6	3.3	B3/2500		
BM (30°-60°)	1749.5	5.2	B2/2500		
BH (60°-80°)	644.3	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5200.4	5200.4	5200.4	5200.4	5200.4	5200.4	5200.4	5200.4	5200.4	5200.4
2.5°	4882.5	4926.7	4920.4	4949.9	4960.4	5002.5	5044.6	5101.5	5164.6	5162.5
5°	4606.7	4650.9	4661.4	4701.4	4752.0	4817.2	4903.6	5017.3	5135.2	5154.1
7.5°	4280.4	4326.7	4354.1	4434.1	4526.7	4661.4	4802.5	4968.8	5164.6	5192.0
10°	3954.0	3996.1	4031.9	4145.6	4293.0	4493.0	4722.5	4962.5	5225.7	5265.7
12.5°	3751.9	3791.9	3831.9	3930.9	4114.0	4358.3	4669.9	4992.0	5326.8	5383.6
15°	3680.3	3716.1	3747.7	3836.1	4006.7	4284.6	4659.3	5053.1	5455.2	5531.0
17.5°	3690.8	3709.8	3730.8	3798.2	3964.5	4250.9	4678.3	5158.3	5606.8	5674.2
20°	3751.9	3762.4	3764.5	3810.8	3958.2	4246.7	4716.2	5259.4	5750.0	5840.5
22.5°	3829.8	3834.0	3829.8	3861.4	3998.2	4278.3	4766.7	5381.5	5910.0	5994.2
25°	4194.0	4114.0	4013.0	3951.9	4065.6	4339.3	4842.5	5545.7	6084.7	6166.8
27.5°	5324.7	5095.2	4733.0	4326.7	4204.6	4427.7	4947.8	5712.1	6261.6	6335.3
30°	7160.6	6859.5	6244.7	5328.9	4650.9	4613.0	5084.6	5878.4	6449.0	6529.0
32.5°	9000.8	8927.1	8217.5	6950.1	5655.2	5025.7	5312.0	6103.7	6697.4	6760.6
35°	10862.0	10712.5	10131.4	8878.6	7202.7	5865.8	5691.0	6398.4	7023.7	7095.3
37.5°	12287.4	12196.8	11836.8	10805.1	9038.7	7162.7	6339.5	6855.3	7497.5	7577.5
40°	13546.4	13504.3	13382.2	12702.1	11091.5	8859.7	7348.0	7562.7	8154.4	8249.1
42.5°	14536.0	14634.9	14704.4	14514.9	13207.4	10796.7	8703.9	8556.5	9070.2	9167.1
45°	15548.7	15582.4	15862.4	16136.1	15308.7	12822.1	10232.4	9720.8	10209.3	10329.3
47.5°	16199.3	16334.0	16826.7	17308.8	17075.1	14830.7	11874.7	11095.7	11529.4	11754.7
50°	16247.7	16502.4	17180.4	18020.5	18361.5	16742.5	13660.1	12662.1	13123.2	13371.7
52.5°	15441.3	15837.1	16887.7	18117.3	19056.3	18361.5	15506.6	14228.6	14820.2	15144.4
55°	11838.9	12356.8	15786.6	17591.0	19083.7	19589.0	17304.6	15860.3	16710.9	17077.2
57.5°	10314.6	10575.6	12411.6	16677.2	18576.3	20083.8	18930.0	17414.1	18767.9	19222.7
60°	8581.8	8925.0	10409.3	15182.3	17887.8	20132.2	20365.9	19418.5	20997.6	21509.2
62.5°	5832.1	6204.7	7680.6	12613.7	16946.7	20109.1	21542.9	21481.8	23475.7	24025.2
65°	3612.9	3846.6	4819.4	10299.8	15630.8	20134.3	22774.5	23987.3	26090.6	26648.6
67.5°	2855.0	2962.4	3469.8	7908.0	13363.2	19565.9	24004.1	26343.3	28551.9	28994.0
70°	1918.1	1983.3	2524.4	5301.5	9941.9	16942.5	23981.0	27526.5	29819.4	30040.4
72.5°	1010.6	1061.1	1475.9	2454.9	6004.7	12043.1	20214.3	26111.7	28558.2	28225.5
75°	505.3	589.5	993.8	1246.4	2564.4	6716.4	12552.6	20587.0	22477.7	21189.2
77.5°	383.2	463.2	821.1	821.1	892.7	2261.2	5316.2	11228.3	10356.7	8623.9
80°	244.2	315.8	718.0	621.1	372.7	574.8	1385.4	3145.5	2200.2	1673.8
82.5°	143.2	206.3	597.9	410.6	208.4	212.6	391.6	669.5	570.6	444.2
85°	56.8	134.7	410.6	162.1	82.1	52.6	117.9	143.2	117.9	88.4
87.5°	0.0	31.6	71.6	0.0	6.3	4.2	8.4	10.5	10.5	8.4
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°
5200.4	0°	5200.4	5200.4	5200.4	5200.4	5200.4	5200.4	5200.4	5200.4	5200.4	5200.4
5204.6	2.5°	5223.6	5227.8	5240.4	5242.5	5213.1	5175.2	5160.4	5154.1	5128.9	5126.7
5238.3	5°	5286.8	5305.7	5286.8	5232.0	5101.5	4918.3	4779.3	4665.7	4562.5	4530.9
5354.1	7.5°	5413.1	5432.0	5375.2	5160.4	4832.0	4467.7	4139.3	3907.7	3699.3	3621.4
5495.2	10°	5594.2	5619.4	5440.5	5006.7	4425.6	3840.3	3284.5	2892.9	2587.6	2463.4
5686.8	12.5°	5821.5	5832.1	5476.3	4773.0	3897.2	3061.3	2273.9	1854.9	1583.3	1482.2
5918.4	15°	6072.1	6057.4	5480.5	4455.1	3177.1	2164.4	1484.3	1219.1	1109.6	1075.9
6150.0	17.5°	6335.3	6274.2	5396.2	3996.1	2387.6	1480.1	1101.1	1038.0	1019.0	1010.6
6379.5	20°	6594.2	6457.4	5242.5	3396.1	1713.8	1105.4	1000.1	981.1	970.6	966.4
6611.1	22.5°	6830.0	6596.3	4979.4	2699.2	1244.3	976.9	945.3	928.5	909.6	901.1
6836.4	25°	7059.5	6676.4	4608.8	2048.6	995.9	913.8	888.5	856.9	831.6	821.1
7078.5	27.5°	7282.7	6726.9	4145.6	1515.9	888.5	854.8	808.5	764.3	745.3	741.1
7337.5	30°	7520.6	6743.7	3619.3	1130.6	823.2	781.1	713.7	663.2	652.7	654.8
7687.0	32.5°	7811.2	6769.0	3088.7	926.4	768.5	692.7	612.7	560.0	551.6	560.0
8196.5	35°	8158.6	6819.5	2577.1	852.7	720.1	602.2	515.8	471.6	463.2	469.5
8849.2	37.5°	8630.2	6901.6	2099.1	838.0	680.1	526.4	433.7	397.9	397.9	400.0
9649.2	40°	9257.6	7120.6	1671.7	827.4	659.0	469.5	366.3	351.6	357.9	362.1
10668.3	42.5°	10021.9	7585.9	1383.3	814.8	635.8	444.2	332.7	326.3	336.9	341.1
11889.4	45°	10878.8	8175.4	1282.2	793.8	614.8	461.1	317.9	309.5	322.1	324.2
13258.0	47.5°	11765.2	8752.3	1269.6	770.6	593.7	486.4	313.7	294.8	309.5	311.6
14719.1	50°	12662.1	9129.2	1282.2	734.8	560.0	486.4	315.8	280.0	292.7	299.0
16235.1	52.5°	13565.4	9301.8	1273.8	656.9	501.1	456.9	315.8	267.4	280.0	284.2
17873.1	55°	14441.2	9268.1	1145.4	541.1	425.3	404.2	307.4	256.9	265.3	267.4
19420.6	57.5°	15133.9	8798.6	907.4	421.1	345.3	336.9	280.0	244.2	250.5	248.4
20839.6	60°	15496.0	7767.0	648.5	324.2	271.6	265.3	246.3	227.4	231.6	221.1
22041.9	62.5°	15500.3	6402.6	433.7	256.9	216.9	210.5	210.5	204.2	200.0	179.0
22972.5	65°	15169.7	4888.8	288.4	204.2	174.8	164.2	176.9	174.8	160.0	130.5
23256.7	67.5°	14420.2	3204.5	219.0	160.0	134.7	128.4	141.1	147.4	136.9	109.5
22220.8	70°	12879.0	1865.4	181.1	124.2	101.1	94.7	113.7	126.3	113.7	88.4
18993.2	72.5°	10697.7	1006.4	147.4	92.6	69.5	63.2	90.5	103.2	90.5	65.3
12186.3	75°	6941.6	539.0	113.7	61.1	35.8	40.0	67.4	75.8	63.2	42.1
3577.1	77.5°	2330.7	237.9	71.6	29.5	16.8	16.8	40.0	46.3	29.5	14.7
650.6	80°	520.0	99.0	29.5	12.6	6.3	6.3	8.4	8.4	4.2	0.0
200.0	82.5°	170.5	40.0	12.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0
50.5	85°	65.3	14.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.8	87.5°	25.3	2.1	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>
5200.4
5131.0
4512.0
3589.8
2410.7
1450.6
1075.9
1008.5
962.2
899.0
816.9
736.9
654.8
557.9
467.4
397.9
362.1
341.1
326.3
313.7
301.1
284.2
267.4
248.4
219.0
172.6
126.3
107.4
84.2
63.2
37.9
12.6
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