

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: P952407

Luminaire Tested: **GALN-SB6B-735-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952407  
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-SB6B-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

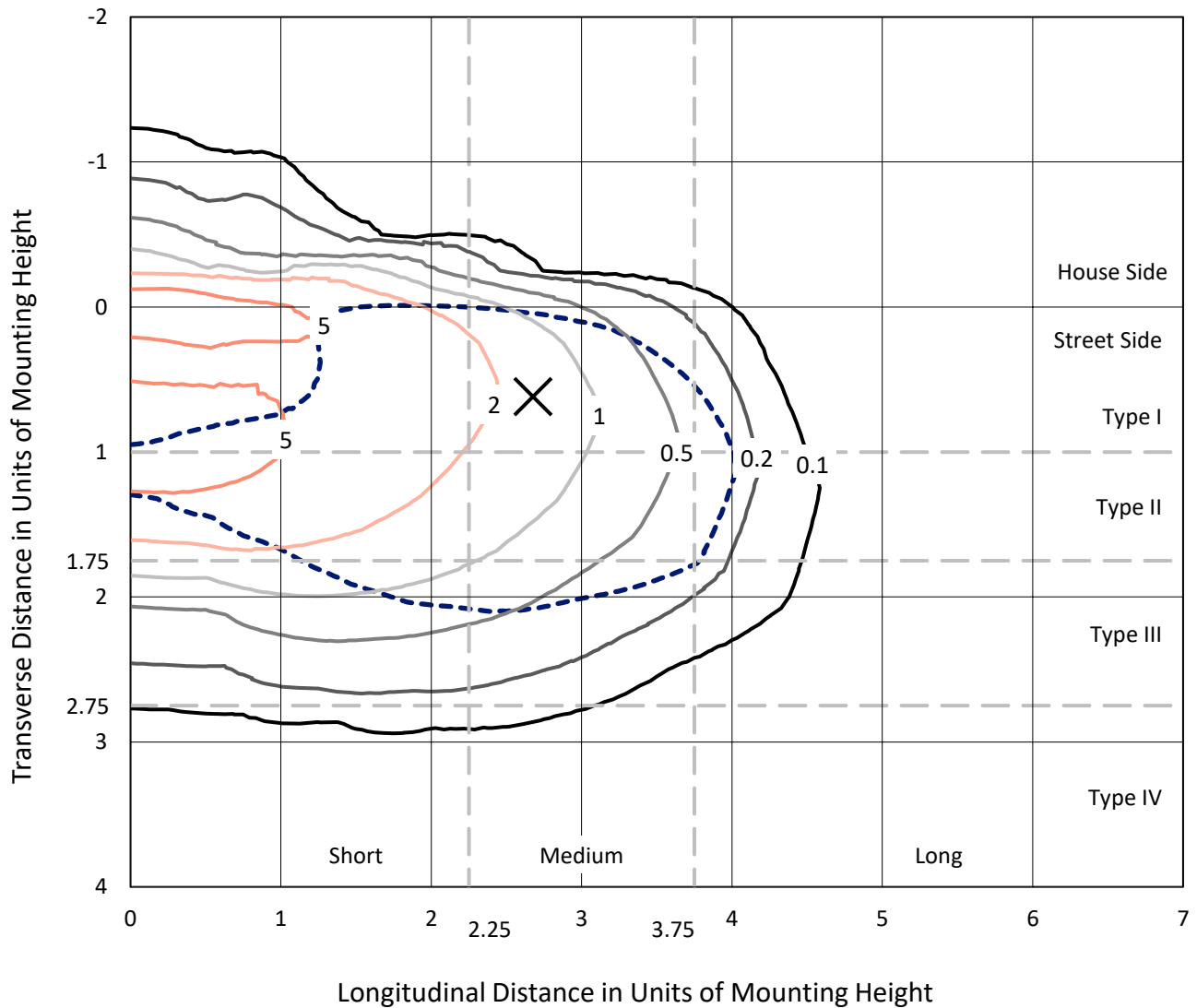
Lumens per Lamp: N/A  
Luminaire Lumens: 28429 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): 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

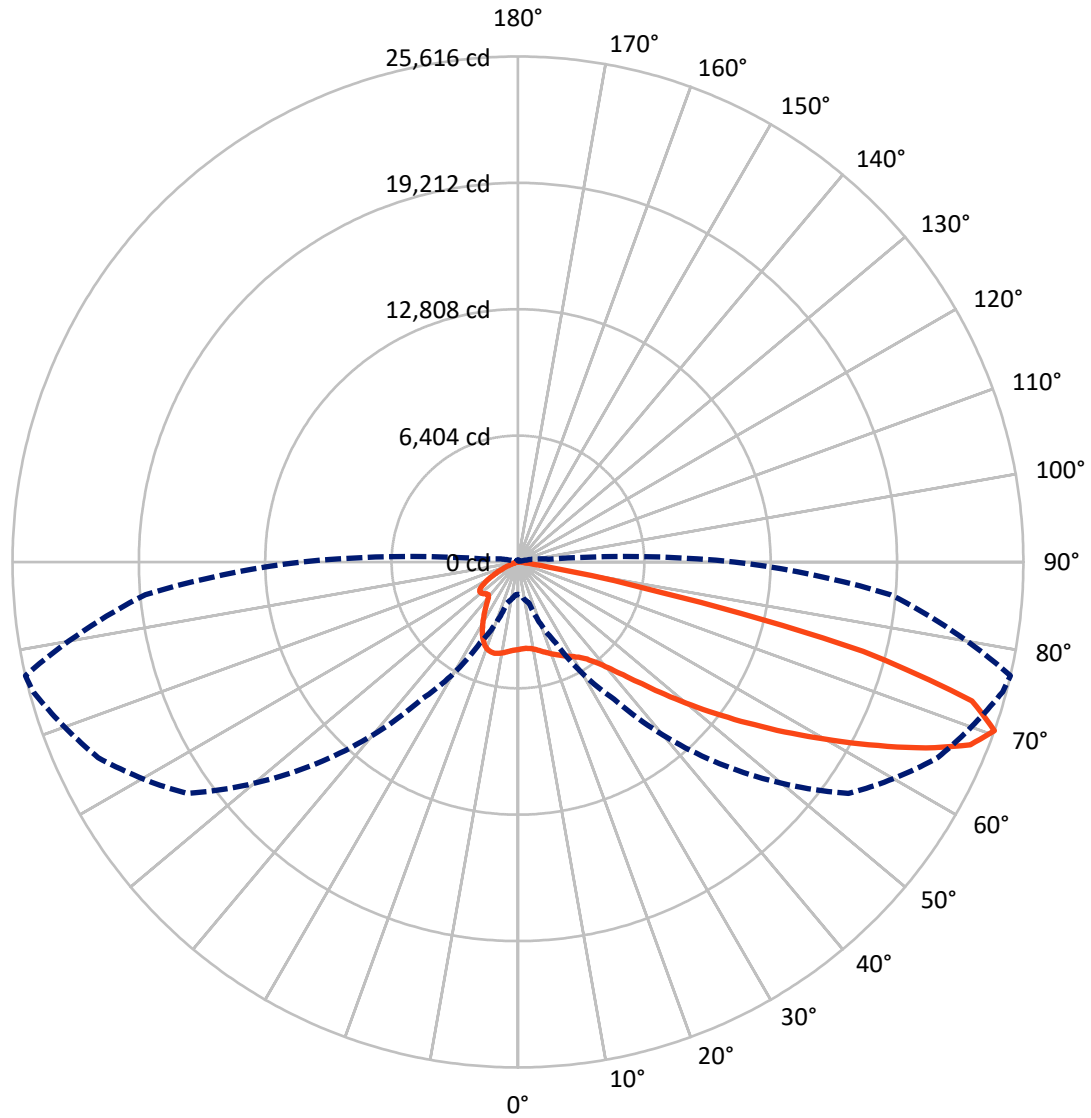
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	2996.8	0.0	2996.8
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	25432.2	0.0	25432.2
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	28429.0	0.0	28429.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	382.2	1.3
10°-20°	907.2	3.2
20°-30°	1403.2	4.9
30°-40°	2546.3	9.0
40°-50°	4806.4	16.9
50°-60°	6944.8	24.4
60°-70°	7392.6	26.0
70°-80°	3917.6	13.8
80°-90°	128.6	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°	28429.0	100.0
0°-180°	28429.0	100.0

**Coefficient of Utilization**



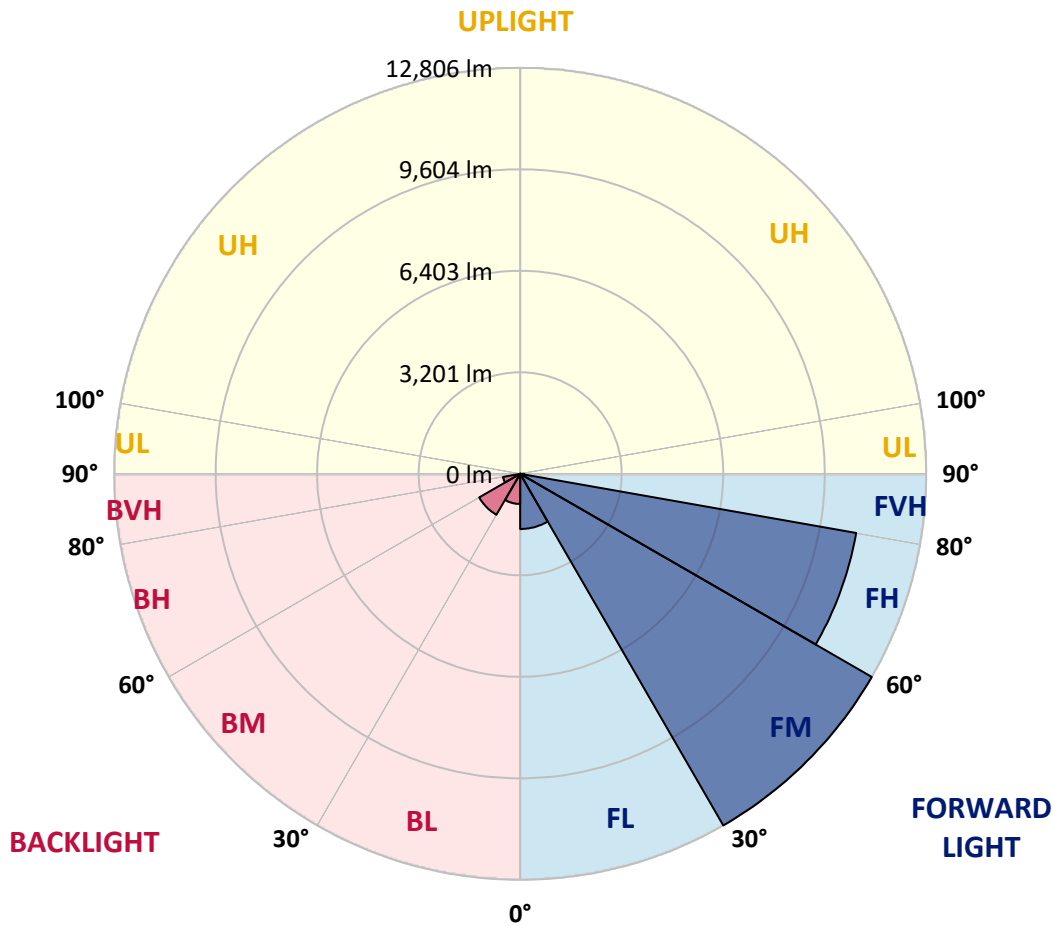
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1740.5	6.1			
FM	(30°-60°)	12805.7	45.0			
FH	(60°-80°)	10760.8	37.9			G4/12000
FVH	(80°-90°)	125.2	0.4			G2/225
BL	(0°-30°)	952.1	3.3	B2/1000		
BM	(30°-60°)	1491.8	5.2	B2/2500		
BH	(60°-80°)	549.4	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.5	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°	4434.4	4434.4	4434.4	4434.4	4434.4	4434.4	4434.4	4434.4	4434.4	4434.4
2.5°	4163.3	4201.0	4195.6	4220.8	4229.7	4265.7	4301.6	4350.0	4403.9	4402.1
5°	3928.1	3965.8	3974.8	4008.9	4052.0	4107.7	4181.3	4278.2	4378.8	4394.9
7.5°	3649.9	3689.4	3712.7	3780.9	3859.9	3974.8	4095.1	4236.9	4403.9	4427.2
10°	3371.6	3407.5	3438.0	3535.0	3660.6	3831.2	4026.9	4231.5	4456.0	4490.1
12.5°	3199.2	3233.3	3267.5	3351.8	3508.0	3716.3	3982.0	4256.7	4542.1	4590.6
15°	3138.2	3168.7	3195.6	3271.1	3416.5	3653.5	3973.0	4308.7	4651.6	4716.3
17.5°	3147.2	3163.3	3181.3	3238.7	3380.6	3624.7	3989.2	4398.5	4780.9	4838.4
20°	3199.2	3208.2	3210.0	3249.5	3375.2	3621.1	4021.5	4484.7	4903.0	4980.2
22.5°	3265.7	3269.3	3265.7	3292.6	3409.3	3648.1	4064.6	4588.8	5039.4	5111.2
25°	3576.3	3508.0	3421.9	3369.8	3466.7	3700.1	4129.2	4728.8	5188.4	5258.5
27.5°	4540.3	4344.6	4035.9	3689.4	3585.2	3775.5	4219.0	4870.7	5339.2	5402.1
30°	6105.8	5849.1	5324.9	4543.9	3965.8	3933.5	4335.7	5012.5	5499.0	5567.2
32.5°	7674.9	7612.1	7007.1	5926.3	4822.2	4285.4	4529.6	5204.6	5710.9	5764.7
35°	9262.0	9134.5	8639.0	7570.8	6141.7	5001.7	4852.7	5455.9	5989.1	6050.2
37.5°	10477.4	10400.2	10093.2	9213.5	7707.3	6107.6	5405.7	5845.5	6393.1	6461.3
40°	11551.0	11515.1	11411.0	10831.1	9457.7	7554.7	6265.6	6448.7	6953.2	7034.0
42.5°	12394.8	12479.2	12538.4	12376.9	11262.0	9206.3	7421.8	7296.1	7734.2	7816.8
45°	13258.3	13287.1	13525.8	13759.2	13053.7	10933.4	8725.2	8288.9	8705.4	8807.8
47.5°	13813.1	13928.0	14348.1	14759.2	14559.9	12646.1	10125.5	9461.3	9831.1	10023.2
50°	13854.4	14071.6	14649.7	15366.0	15656.9	14276.3	11648.0	10797.0	11190.2	11402.0
52.5°	13166.8	13504.3	14400.2	15448.6	16249.3	15656.9	13222.4	12132.7	12637.2	12913.6
55°	10095.0	10536.7	13461.2	14999.8	16272.7	16703.5	14755.6	13524.1	14249.4	14561.7
57.5°	8795.2	9017.8	10583.3	14220.6	15840.0	17125.4	16141.6	14849.0	16003.4	16391.2
60°	7317.7	7610.3	8876.0	12946.0	15252.9	17166.7	17366.0	16558.1	17904.6	18340.9
62.5°	4973.0	5290.8	6549.3	10755.7	14450.4	17147.0	18369.6	18317.5	20017.7	20486.3
65°	3080.7	3280.0	4109.5	8782.6	13328.4	17168.5	19419.8	20453.9	22247.5	22723.2
67.5°	2434.4	2526.0	2958.7	6743.2	11394.8	16683.8	20468.3	22462.9	24346.2	24723.2
70°	1635.5	1691.2	2152.6	4520.6	8477.4	14446.8	20448.6	23471.9	25426.9	25615.5
72.5°	861.7	904.8	1258.5	2093.3	5120.2	10269.2	17236.8	22265.4	24351.6	24067.9
75°	430.9	502.7	847.4	1062.8	2186.7	5727.0	10703.6	17554.5	19166.7	18068.0
77.5°	326.7	395.0	700.2	700.2	761.2	1928.2	4533.2	9574.4	8831.1	7353.6
80°	208.3	269.3	612.2	529.6	317.8	490.1	1181.3	2682.2	1876.1	1427.3
82.5°	122.1	175.9	509.9	350.1	177.7	181.3	333.9	570.9	486.5	378.8
85°	48.5	114.9	350.1	138.2	70.0	44.9	100.5	122.1	100.5	75.4
87.5°	0.0	26.9	61.0	0.0	5.4	3.6	7.2	9.0	9.0	7.2
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°
4434.4	0°	4434.4	4434.4	4434.4	4434.4	4434.4	4434.4	4434.4	4434.4	4434.4	4434.4
4438.0	2.5°	4454.2	4457.7	4468.5	4470.3	4445.2	4412.9	4400.3	4394.9	4373.4	4371.6
4466.7	5°	4508.0	4524.2	4508.0	4461.3	4350.0	4193.8	4075.3	3978.4	3890.4	3863.5
4565.5	7.5°	4615.7	4631.9	4583.4	4400.3	4120.2	3809.6	3529.6	3332.1	3154.4	3087.9
4685.8	10°	4770.1	4791.7	4639.1	4269.2	3773.7	3274.6	2800.7	2466.8	2206.4	2100.5
4849.1	12.5°	4964.0	4973.0	4669.6	4070.0	3323.1	2610.4	1938.9	1581.7	1350.1	1263.9
5046.6	15°	5177.7	5165.1	4673.2	3798.9	2709.1	1845.6	1265.7	1039.5	946.1	917.4
5244.1	17.5°	5402.1	5350.0	4601.4	3407.5	2035.9	1262.1	938.9	885.1	868.9	861.7
5439.8	20°	5622.9	5506.2	4470.3	2895.8	1461.4	942.5	852.8	836.6	827.6	824.0
5637.3	22.5°	5824.0	5624.7	4245.9	2301.6	1061.0	833.0	806.1	791.7	775.6	768.4
5829.4	25°	6019.7	5692.9	3929.9	1746.8	849.2	779.2	757.6	730.7	709.1	700.2
6035.8	27.5°	6210.0	5736.0	3535.0	1292.6	757.6	728.9	689.4	651.7	635.5	631.9
6256.6	30°	6412.8	5750.4	3086.1	964.1	702.0	666.1	608.6	565.5	556.5	558.3
6554.7	32.5°	6660.6	5771.9	2633.7	789.9	655.3	590.7	522.4	477.6	470.4	477.6
6989.1	35°	6956.8	5815.0	2197.5	727.1	614.0	513.5	439.9	402.1	395.0	400.4
7545.7	37.5°	7359.0	5885.0	1789.9	714.5	579.9	448.8	369.8	339.3	339.3	341.1
8227.9	40°	7894.0	6071.7	1425.5	705.6	561.9	400.4	312.4	299.8	305.2	308.8
9096.8	42.5°	8545.7	6468.5	1179.5	694.8	542.2	378.8	283.7	278.3	287.2	290.8
10138.1	45°	9276.4	6971.2	1093.3	676.8	524.2	393.2	271.1	263.9	274.7	276.5
11305.1	47.5°	10032.2	7463.1	1082.6	657.1	506.3	414.7	267.5	251.3	263.9	265.7
12551.0	50°	10797.0	7784.5	1093.3	626.6	477.6	414.7	269.3	238.8	249.5	254.9
13843.6	52.5°	11567.2	7931.7	1086.2	560.1	427.3	389.6	269.3	228.0	238.8	242.4
15240.4	55°	12314.0	7902.9	976.6	461.4	362.7	344.7	262.1	219.0	226.2	228.0
16559.9	57.5°	12904.7	7502.6	773.8	359.1	294.4	287.2	238.8	208.3	213.6	211.8
17770.0	60°	13213.5	6622.9	553.0	276.5	231.6	226.2	210.1	193.9	197.5	188.5
18795.1	62.5°	13217.1	5459.5	369.8	219.0	184.9	179.5	179.5	174.1	170.6	152.6
19588.6	65°	12935.2	4168.7	246.0	174.1	149.0	140.0	150.8	149.0	136.4	111.3
19831.0	67.5°	12296.1	2732.5	186.7	136.4	114.9	109.5	120.3	125.7	116.7	93.4
18947.7	70°	10981.9	1590.6	154.4	105.9	86.2	80.8	96.9	107.7	96.9	75.4
16195.5	72.5°	9122.0	858.2	125.7	79.0	59.2	53.9	77.2	88.0	77.2	55.7
10391.2	75°	5919.1	459.6	96.9	52.1	30.5	34.1	57.4	64.6	53.9	35.9
3050.2	77.5°	1987.4	202.9	61.0	25.1	14.4	14.4	34.1	39.5	25.1	12.6
554.8	80°	443.4	84.4	25.1	10.8	5.4	5.4	7.2	7.2	3.6	0.0
170.6	82.5°	145.4	34.1	10.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0
43.1	85°	55.7	12.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.4	87.5°	21.5	1.8	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>
4434.4
4375.2
3847.3
3061.0
2055.6
1237.0
917.4
860.0
820.5
766.6
696.6
628.4
558.3
475.8
398.6
339.3
308.8
290.8
278.3
267.5
256.7
242.4
228.0
211.8
186.7
147.2
107.7
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71.8
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32.3
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