

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: P956418

Luminaire Tested: **GALN-SB9A-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956418
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-SB9A-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 350mA 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: 29579 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

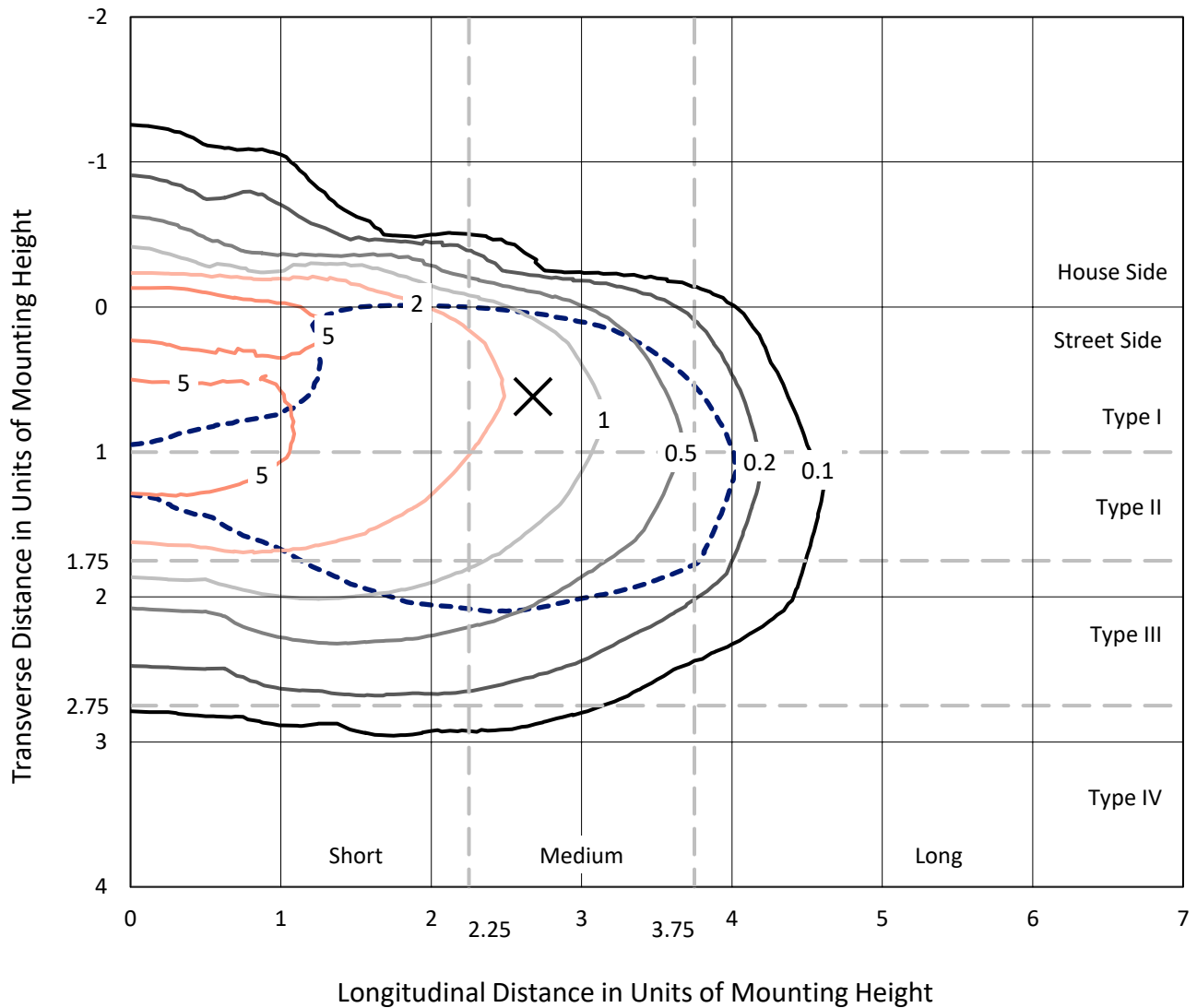
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

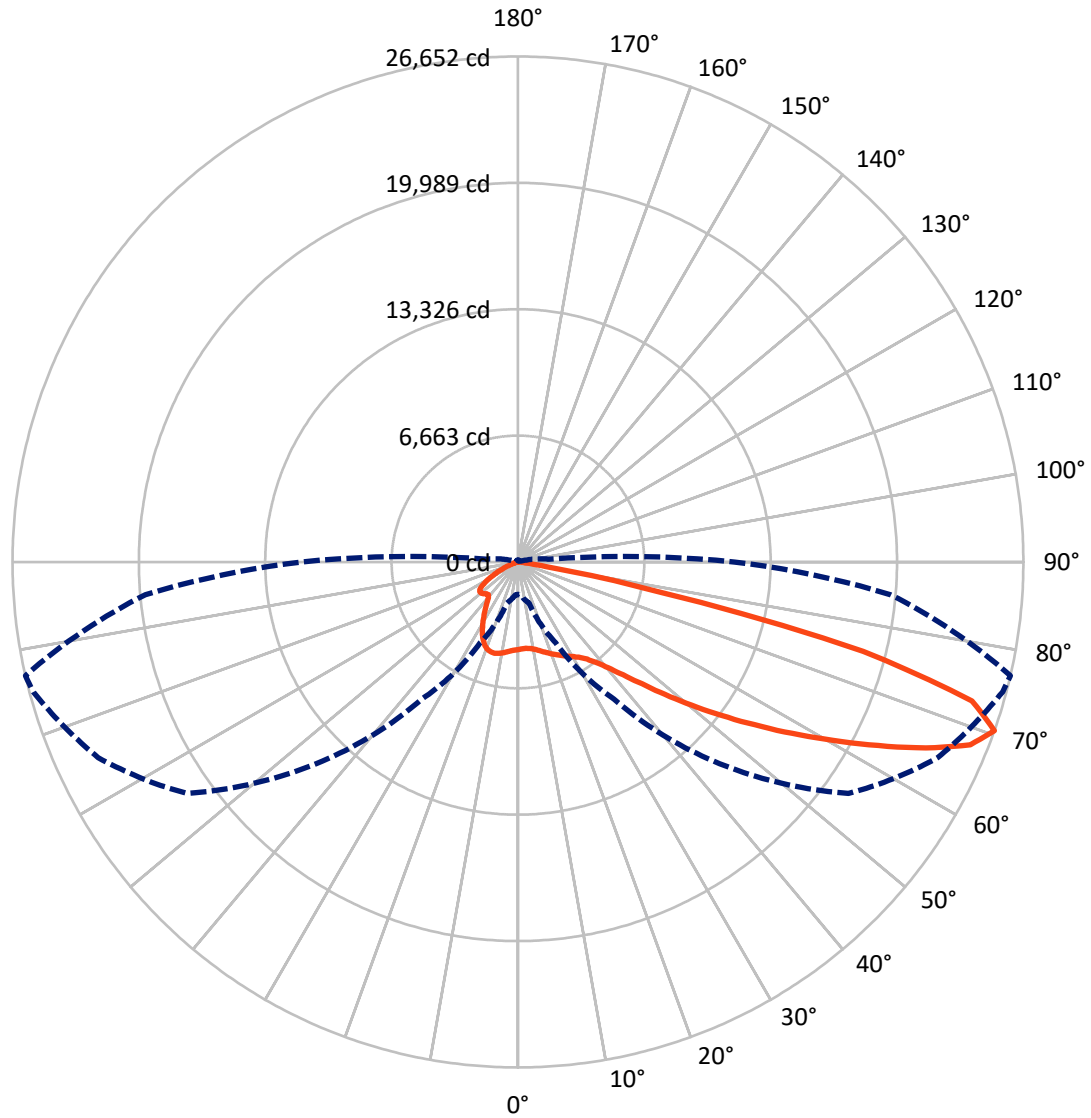
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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
House Side	Lumens	3118.0	0.0	3118.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	26460.9	0.0	26460.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	29579.0	0.0	29579.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.6	1.3
10°-20°	943.9	3.2
20°-30°	1460.0	4.9
30°-40°	2649.3	9.0
40°-50°	5000.8	16.9
50°-60°	7225.8	24.4
60°-70°	7691.7	26.0
70°-80°	4076.0	13.8
80°-90°	133.8	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°	29579.0	100.0
0°-180°	29579.0	100.0

Coefficient of Utilization



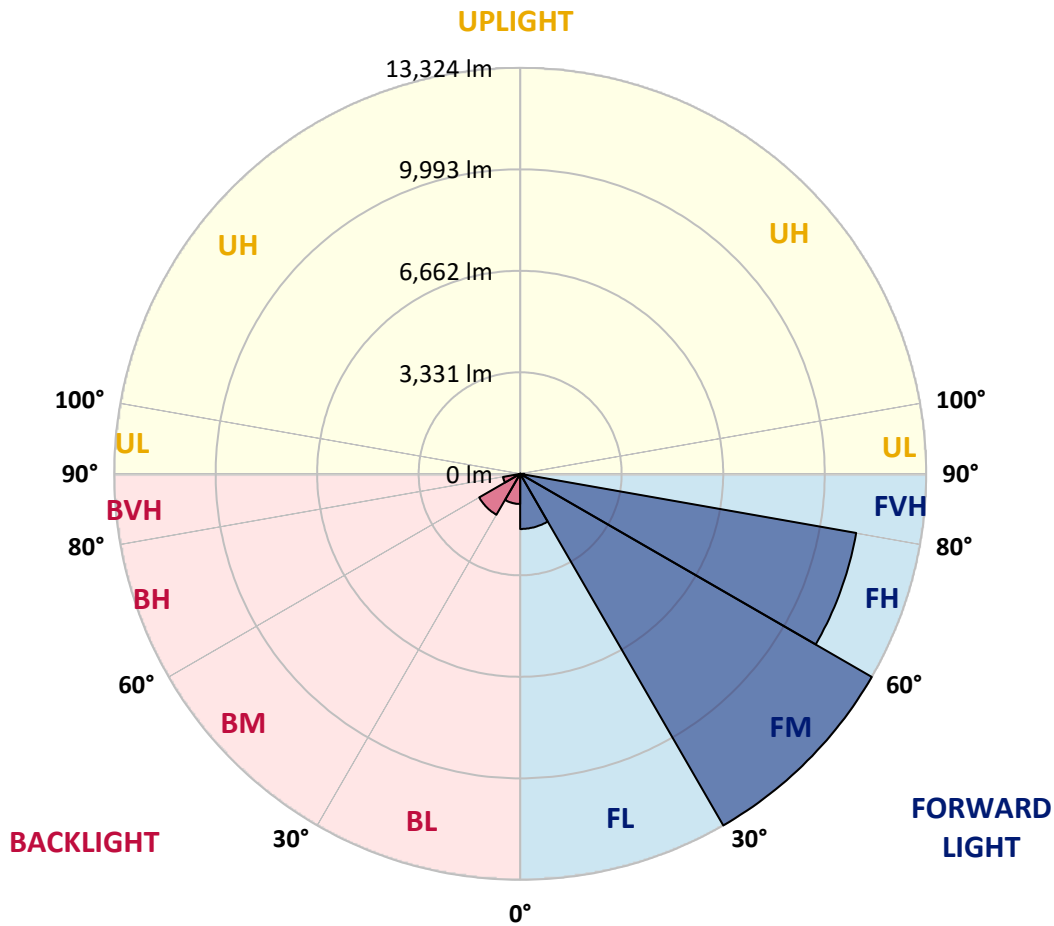
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1810.9	6.1			
FM (30°-60°)	13323.7	45.0			
FH (60°-80°)	11196.1	37.9			G4/12000
FVH (80°-90°)	130.2	0.4			G2/225
BL (0°-30°)	990.7	3.3	B2/1000		
BM (30°-60°)	1552.2	5.2	B2/2500		
BH (60°-80°)	571.6	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.6	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°	4613.8	4613.8	4613.8	4613.8	4613.8	4613.8	4613.8	4613.8	4613.8	4613.8
2.5°	4331.7	4371.0	4365.4	4391.5	4400.8	4438.2	4475.6	4526.0	4582.0	4580.2
5°	4087.0	4126.3	4135.6	4171.1	4215.9	4273.8	4350.4	4451.3	4555.9	4572.7
7.5°	3797.5	3838.6	3862.9	3933.9	4016.1	4135.6	4260.8	4408.3	4582.0	4606.3
10°	3508.0	3545.3	3577.1	3678.0	3808.7	3986.2	4189.8	4402.7	4636.2	4671.7
12.5°	3328.7	3364.1	3399.6	3487.4	3649.9	3866.6	4143.1	4428.9	4725.9	4776.3
15°	3265.1	3296.9	3324.9	3403.4	3554.7	3801.2	4133.7	4483.0	4839.8	4907.1
17.5°	3274.5	3291.3	3310.0	3369.7	3517.3	3771.4	4150.5	4576.4	4974.3	5034.1
20°	3328.7	3338.0	3339.9	3381.0	3511.7	3767.6	4184.2	4666.1	5101.3	5181.6
22.5°	3397.8	3401.5	3397.8	3425.8	3547.2	3795.6	4229.0	4774.4	5243.3	5318.0
25°	3720.9	3649.9	3560.3	3506.1	3607.0	3849.8	4296.2	4920.1	5398.3	5471.2
27.5°	4724.0	4520.4	4199.1	3838.6	3730.3	3928.3	4389.6	5067.7	5555.2	5620.6
30°	6352.8	6085.7	5540.3	4727.7	4126.3	4092.6	4511.1	5215.3	5721.5	5792.5
32.5°	7985.4	7920.0	7290.5	6166.0	5017.3	4458.8	4712.8	5415.1	5941.9	5997.9
35°	9636.7	9504.0	8988.5	7877.1	6390.2	5204.1	5049.0	5676.6	6231.4	6294.9
37.5°	10901.2	10820.9	10501.5	9586.2	8019.0	6354.7	5624.3	6082.0	6651.7	6722.7
40°	12018.3	11980.9	11872.6	11269.2	9840.3	7860.3	6519.1	6709.6	7234.5	7318.6
42.5°	12896.2	12984.0	13045.6	12877.5	11717.5	9578.8	7722.0	7591.3	8047.0	8133.0
45°	13794.7	13824.6	14073.0	14315.8	13581.7	11375.7	9078.1	8624.2	9057.6	9164.1
47.5°	14371.9	14491.4	14928.5	15356.3	15148.9	13157.7	10535.1	9844.0	10228.8	10428.7
50°	14414.8	14640.8	15242.3	15987.6	16290.2	14853.8	12119.1	11233.7	11642.8	11863.2
52.5°	13699.4	14050.6	14982.7	16073.5	16906.6	16290.2	13757.3	12623.5	13148.4	13436.0
55°	10503.4	10962.9	14005.7	15606.6	16930.9	17379.2	15352.5	14071.1	14825.8	15150.8
57.5°	9151.0	9382.6	11011.5	14795.9	16480.8	17818.2	16794.6	15449.7	16650.7	17054.2
60°	7613.7	7918.2	9235.1	13469.7	15869.9	17861.2	18068.5	17227.9	18628.9	19082.8
62.5°	5174.2	5504.8	6814.2	11190.8	15035.0	17840.6	19112.7	19058.5	20827.4	21315.0
65°	3205.4	3412.7	4275.7	9137.9	13867.5	17863.0	20205.4	21281.3	23147.4	23642.4
67.5°	2532.9	2628.2	3078.4	7015.9	11855.8	17358.7	21296.3	23371.6	25331.0	25723.3
70°	1701.7	1759.6	2239.6	4703.5	8820.4	15031.2	21275.7	24421.3	26455.5	26651.6
72.5°	896.6	941.4	1309.4	2178.0	5327.3	10684.6	17934.0	23166.1	25336.6	25041.5
75°	448.3	523.0	881.7	1105.8	2275.1	5958.7	11136.6	18264.6	19942.0	18798.9
77.5°	340.0	410.9	728.5	728.5	792.0	2006.2	4716.5	9961.7	9188.4	7651.0
80°	216.7	280.2	637.0	551.0	330.6	509.9	1229.1	2790.7	1952.0	1485.0
82.5°	127.0	183.1	530.5	364.2	184.9	188.7	347.4	594.0	506.2	394.1
85°	50.4	119.5	364.2	143.8	72.8	46.7	104.6	127.0	104.6	78.5
87.5°	0.0	28.0	63.5	0.0	5.6	3.7	7.5	9.3	9.3	7.5
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°
4613.8	0°	4613.8	4613.8	4613.8	4613.8	4613.8	4613.8	4613.8	4613.8	4613.8	4613.8
4617.5	2.5°	4634.3	4638.1	4649.3	4651.1	4625.0	4591.4	4578.3	4572.7	4550.3	4548.4
4647.4	5°	4690.4	4707.2	4690.4	4641.8	4526.0	4363.5	4240.2	4139.3	4047.8	4019.8
4750.1	7.5°	4802.5	4819.3	4768.8	4578.3	4286.9	3963.7	3672.4	3466.9	3282.0	3212.8
4875.3	10°	4963.1	4985.5	4826.7	4441.9	3926.4	3407.1	2914.0	2566.5	2295.7	2185.5
5045.3	12.5°	5164.8	5174.2	4858.5	4234.6	3457.5	2716.0	2017.4	1645.6	1404.7	1315.0
5250.8	15°	5387.1	5374.0	4862.2	3952.5	2818.7	1920.2	1316.9	1081.5	984.4	954.5
5456.2	17.5°	5620.6	5566.4	4787.5	3545.3	2118.2	1313.2	976.9	920.9	904.1	896.6
5659.8	20°	5850.4	5728.9	4651.1	3013.0	1520.5	980.7	887.3	870.5	861.1	857.4
5865.3	22.5°	6059.6	5852.2	4417.7	2394.7	1103.9	866.7	838.7	823.8	806.9	799.5
6065.2	25°	6263.2	5923.2	4088.9	1817.5	883.5	810.7	788.3	760.2	737.8	728.5
6280.0	27.5°	6461.2	5968.0	3678.0	1344.9	788.3	758.4	717.3	678.1	661.2	657.5
6509.7	30°	6672.2	5983.0	3211.0	1003.1	730.4	693.0	633.2	588.4	579.1	580.9
6819.8	32.5°	6930.0	6005.4	2740.3	821.9	681.8	614.5	543.6	496.9	489.4	496.9
7271.9	35°	7238.2	6050.2	2286.3	756.5	638.8	534.2	457.6	418.4	410.9	416.5
7850.9	37.5°	7656.6	6123.1	1862.3	743.4	603.3	467.0	384.8	353.0	353.0	354.9
8560.7	40°	8213.3	6317.3	1483.1	734.1	584.7	416.5	325.0	311.9	317.5	321.3
9464.8	42.5°	8891.4	6730.2	1227.2	722.9	564.1	394.1	295.1	289.5	298.9	302.6
10548.2	45°	9651.6	7253.2	1137.6	704.2	545.4	409.1	282.1	274.6	285.8	287.7
11762.4	47.5°	10438.0	7765.0	1126.4	683.7	526.8	431.5	278.3	261.5	274.6	276.5
13058.7	50°	11233.7	8099.3	1137.6	651.9	496.9	431.5	280.2	248.4	259.6	265.2
14403.6	52.5°	12035.1	8252.5	1130.1	582.8	444.6	405.3	280.2	237.2	248.4	252.2
15856.9	55°	12812.1	8222.6	1016.2	480.1	377.3	358.6	272.7	227.9	235.4	237.2
17229.8	57.5°	13426.7	7806.1	805.1	373.6	306.3	298.9	248.4	216.7	222.3	220.4
18488.8	60°	13748.0	6890.8	575.3	287.7	241.0	235.4	218.5	201.7	205.5	196.1
19555.4	62.5°	13751.7	5680.4	384.8	227.9	192.4	186.8	186.8	181.2	177.5	158.8
20381.0	65°	13458.4	4337.3	255.9	181.2	155.0	145.7	156.9	155.0	142.0	115.8
20633.2	67.5°	12793.5	2843.0	194.3	142.0	119.5	113.9	125.2	130.8	121.4	97.1
19714.1	70°	11426.1	1655.0	160.6	110.2	89.7	84.1	100.9	112.1	100.9	78.5
16850.6	72.5°	9491.0	892.9	130.8	82.2	61.6	56.0	80.3	91.5	80.3	57.9
10811.6	75°	6158.6	478.2	100.9	54.2	31.8	35.5	59.8	67.2	56.0	37.4
3173.6	77.5°	2067.8	211.1	63.5	26.2	14.9	14.9	35.5	41.1	26.2	13.1
577.2	80°	461.4	87.8	26.2	11.2	5.6	5.6	7.5	7.5	3.7	0.0
177.5	82.5°	151.3	35.5	11.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0
44.8	85°	57.9	13.1	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.9	87.5°	22.4	1.9	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>
4613.8
4552.1
4003.0
3184.8
2138.8
1287.0
954.5
894.7
853.6
797.6
724.8
653.8
580.9
495.0
414.7
353.0
321.3
302.6
289.5
278.3
267.1
252.2
237.2
220.4
194.3
153.2
112.1
95.3
74.7
56.0
33.6
11.2
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