

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: P953919

Luminaire Tested: **GALN-SB7B-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953919
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-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 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: 28991 lumens
Efficiency: N/A
Efficacy: 112.9 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

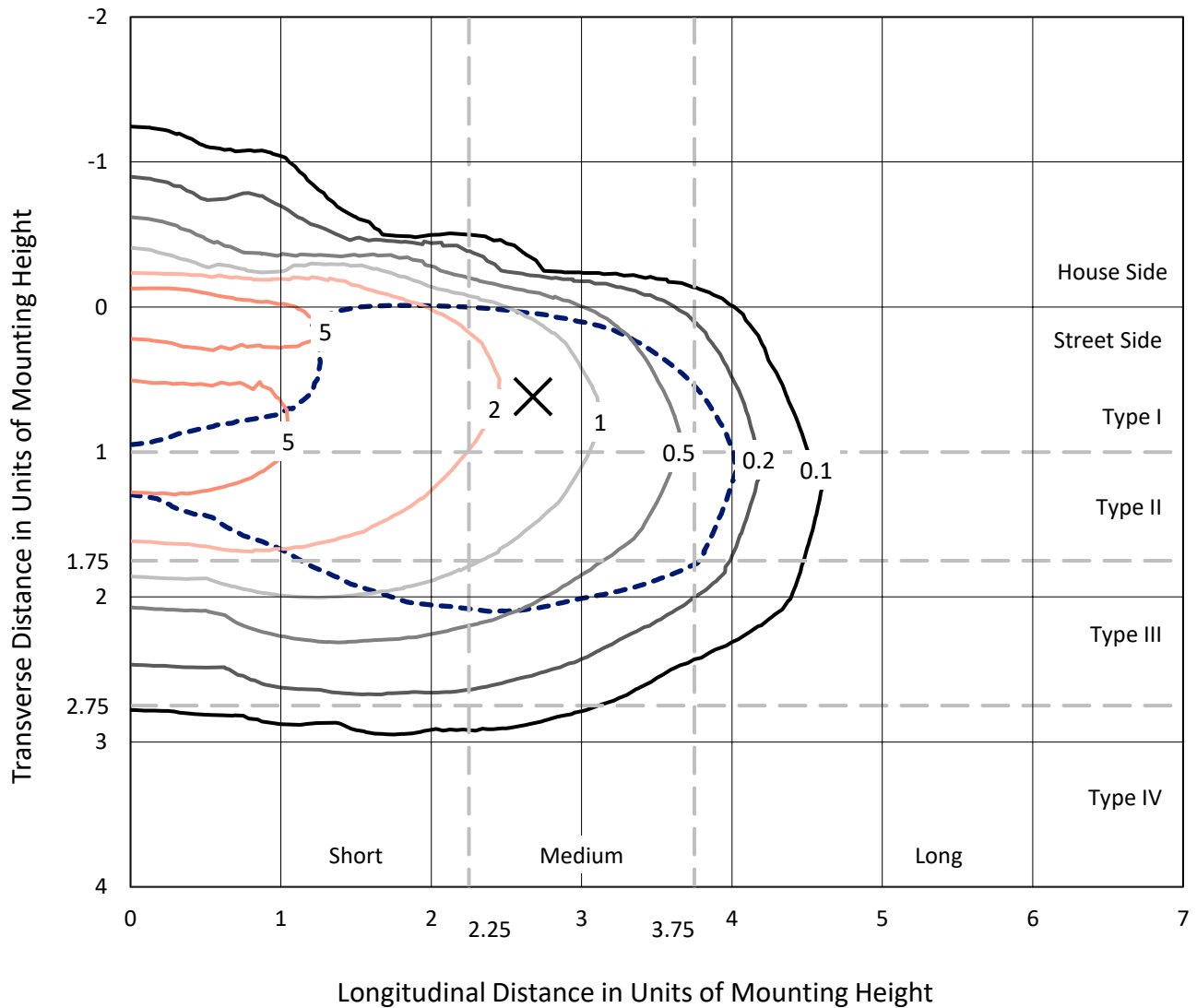
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

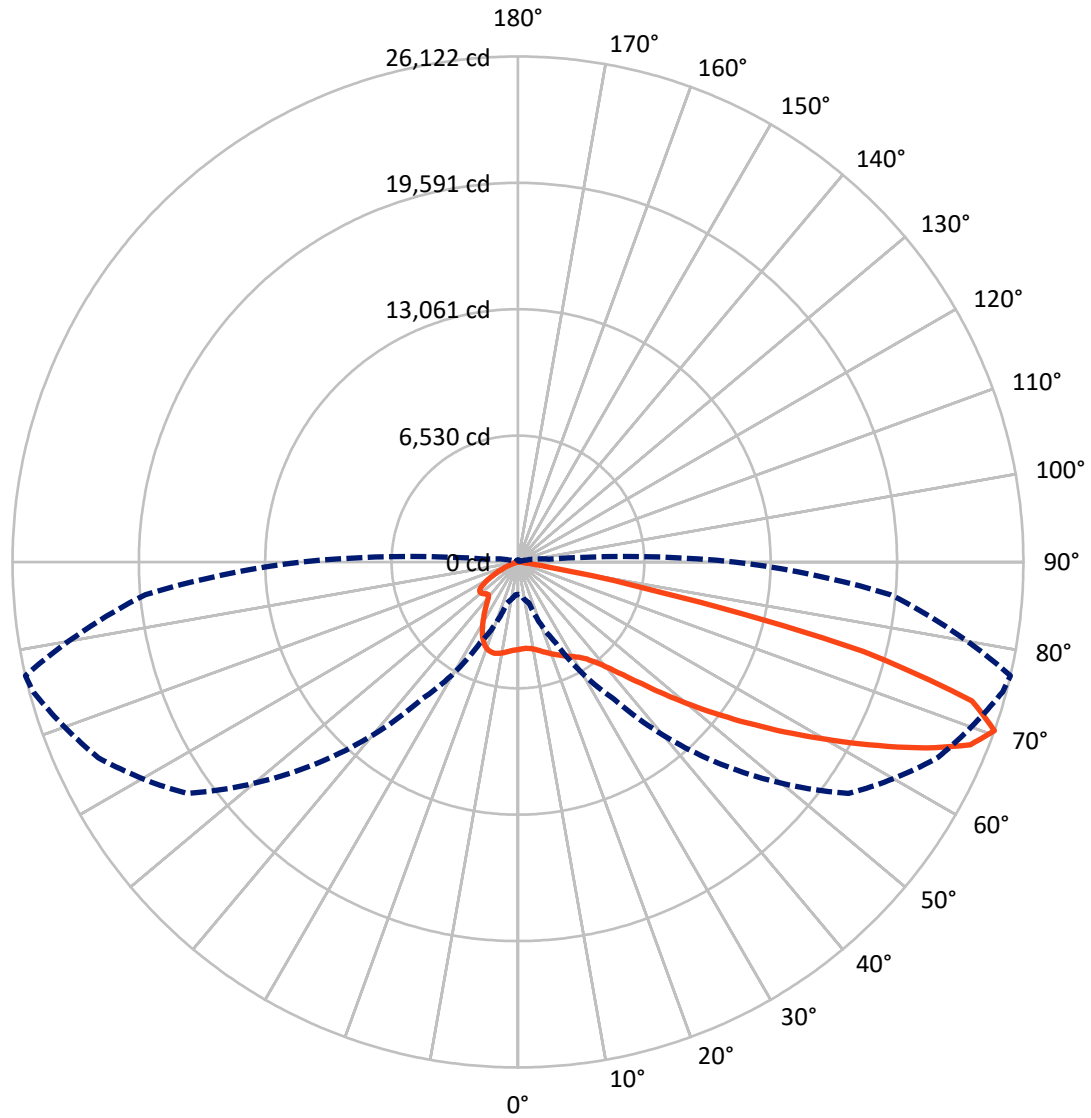
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	3056.1	0.0	3056.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	25934.9	0.0	25934.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	28991.0	0.0	28991.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.7	1.3
10°-20°	925.2	3.2
20°-30°	1431.0	4.9
30°-40°	2596.6	9.0
40°-50°	4901.4	16.9
50°-60°	7082.1	24.4
60°-70°	7538.7	26.0
70°-80°	3995.0	13.8
80°-90°	131.2	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°	28991.0	100.0
0°-180°	28991.0	100.0

Coefficient of Utilization



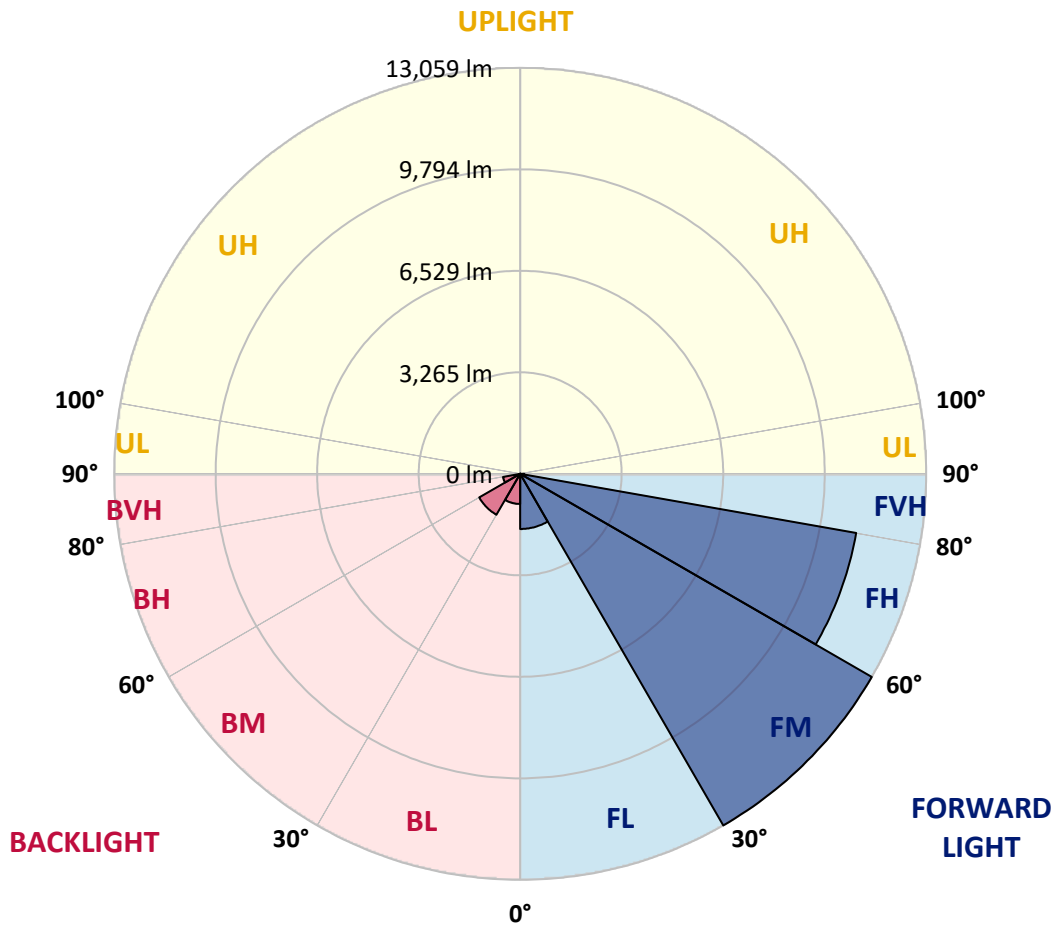
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1774.9	6.1			
FM (30°-60°)	13058.8	45.0			
FH (60°-80°)	10973.5	37.9			G4/12000
FVH (80°-90°)	127.6	0.4			G2/225
BL (0°-30°)	971.0	3.3	B2/1000		
BM (30°-60°)	1521.3	5.2	B2/2500		
BH (60°-80°)	560.3	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°	4522.1	4522.1	4522.1	4522.1	4522.1	4522.1	4522.1	4522.1	4522.1	4522.1
2.5°	4245.6	4284.1	4278.6	4304.2	4313.4	4350.0	4386.6	4436.0	4490.9	4489.1
5°	4005.8	4044.2	4053.4	4088.2	4132.1	4188.9	4263.9	4362.8	4465.3	4481.8
7.5°	3722.0	3762.3	3786.1	3855.7	3936.2	4053.4	4176.1	4320.7	4490.9	4514.7
10°	3438.2	3474.9	3506.0	3604.8	3733.0	3906.9	4106.5	4315.2	4544.0	4578.8
12.5°	3262.5	3297.3	3332.1	3418.1	3577.4	3789.8	4060.7	4340.8	4631.9	4681.4
15°	3200.2	3231.4	3258.8	3335.7	3484.0	3725.7	4051.6	4393.9	4743.6	4809.5
17.5°	3209.4	3225.9	3244.2	3302.8	3447.4	3696.4	4068.0	4485.5	4875.4	4934.0
20°	3262.5	3271.6	3273.5	3313.7	3441.9	3692.7	4101.0	4573.3	4999.9	5078.6
22.5°	3330.2	3333.9	3330.2	3357.7	3476.7	3720.2	4144.9	4679.5	5139.1	5212.3
25°	3647.0	3577.4	3489.5	3436.4	3535.3	3773.3	4210.8	4822.3	5291.0	5362.4
27.5°	4630.1	4430.5	4115.6	3762.3	3656.1	3850.2	4302.4	4967.0	5444.8	5508.9
30°	6226.5	5964.7	5430.1	4633.8	4044.2	4011.3	4421.4	5111.6	5607.7	5677.3
32.5°	7826.7	7762.6	7145.6	6043.5	4917.5	4370.1	4619.1	5307.5	5823.8	5878.7
35°	9445.1	9315.1	8809.8	7720.5	6263.2	5100.6	4948.6	5563.8	6107.5	6169.8
37.5°	10684.5	10605.8	10292.7	9395.7	7859.6	6228.4	5512.5	5961.1	6519.5	6589.0
40°	11779.4	11742.7	11636.6	11045.2	9644.6	7704.0	6389.5	6576.2	7090.7	7173.1
42.5°	12639.8	12725.9	12786.3	12621.5	11484.6	9388.3	7568.5	7440.4	7887.1	7971.3
45°	13520.4	13549.7	13793.2	14031.2	13311.7	11149.6	8897.7	8452.8	8877.5	8981.9
47.5°	14086.2	14203.3	14631.7	15051.0	14847.8	12896.1	10325.7	9648.3	10025.5	10221.3
50°	14128.3	14349.8	14939.3	15669.8	15966.4	14558.5	11878.2	11010.4	11411.4	11627.4
52.5°	13427.1	13771.3	14684.8	15754.0	16570.6	15966.4	13483.8	12372.5	12887.0	13168.9
55°	10294.6	10745.0	13727.3	15296.3	16594.4	17033.7	15047.3	13791.4	14531.0	14849.6
57.5°	8969.1	9196.1	10792.6	14501.8	16153.1	17464.0	16460.7	15142.5	16319.7	16715.2
60°	7462.3	7760.8	9051.5	13201.9	15554.5	17506.1	17709.3	16885.5	18258.6	18703.4
62.5°	5071.3	5395.4	6678.8	10968.3	14736.1	17486.0	18732.7	18679.6	20413.4	20891.2
65°	3141.7	3344.9	4190.7	8956.3	13591.8	17507.9	19803.7	20858.3	22687.3	23172.4
67.5°	2482.6	2575.9	3017.2	6876.5	11620.1	17013.6	20872.9	22907.0	24827.5	25211.9
70°	1667.9	1724.6	2195.1	4610.0	8645.0	14732.4	20852.8	23935.9	25929.6	26121.8
72.5°	878.8	922.7	1283.4	2134.7	5221.4	10472.2	17577.5	22705.6	24833.0	24543.7
75°	439.4	512.6	864.1	1083.8	2229.9	5840.2	10915.2	17901.5	19545.6	18425.2
77.5°	333.2	402.8	714.0	714.0	776.3	1966.3	4622.8	9763.6	9005.7	7499.0
80°	212.4	274.6	624.3	540.1	324.1	499.8	1204.7	2735.2	1913.2	1455.5
82.5°	124.5	179.4	519.9	357.0	181.2	184.9	340.5	582.2	496.1	386.3
85°	49.4	117.2	357.0	141.0	71.4	45.8	102.5	124.5	102.5	76.9
87.5°	0.0	27.5	62.2	0.0	5.5	3.7	7.3	9.2	9.2	7.3
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°
4522.1	0°	4522.1	4522.1	4522.1	4522.1	4522.1	4522.1	4522.1	4522.1	4522.1	4522.1
4525.7	2.5°	4542.2	4545.9	4556.9	4558.7	4533.1	4500.1	4487.3	4481.8	4459.8	4458.0
4555.0	5°	4597.1	4613.6	4597.1	4549.5	4436.0	4276.7	4155.9	4057.0	3967.3	3939.9
4655.7	7.5°	4707.0	4723.5	4674.0	4487.3	4201.7	3885.0	3599.3	3398.0	3216.7	3149.0
4778.4	10°	4864.4	4886.4	4730.8	4353.6	3848.3	3339.4	2856.0	2515.5	2250.1	2142.0
4945.0	12.5°	5062.2	5071.3	4761.9	4150.4	3388.8	2662.0	1977.3	1612.9	1376.8	1288.9
5146.4	15°	5280.0	5267.2	4765.6	3874.0	2762.7	1882.1	1290.7	1060.0	964.8	935.5
5347.8	17.5°	5508.9	5455.8	4692.3	3474.9	2076.1	1287.1	957.5	902.6	886.1	878.8
5547.3	20°	5734.1	5615.1	4558.7	2953.1	1490.3	961.2	869.6	853.2	844.0	840.3
5748.7	22.5°	5939.1	5735.9	4329.8	2347.1	1082.0	849.5	822.0	807.4	790.9	783.6
5944.6	25°	6138.7	5805.5	4007.6	1781.4	866.0	794.6	772.6	745.1	723.2	714.0
6155.1	27.5°	6332.7	5849.4	3604.8	1318.2	772.6	743.3	703.0	664.6	648.1	644.4
6380.3	30°	6539.6	5864.0	3147.1	983.1	715.8	679.2	620.6	576.7	567.5	569.4
6684.2	32.5°	6792.3	5886.0	2685.8	805.6	668.2	602.3	532.8	487.0	479.7	487.0
7127.3	35°	7094.3	5930.0	2240.9	741.5	626.1	523.6	448.5	410.1	402.8	408.3
7694.8	37.5°	7504.4	6001.4	1825.3	728.7	591.3	457.7	377.1	346.0	346.0	347.9
8390.5	40°	8050.0	6191.8	1453.7	719.5	573.0	408.3	318.6	305.7	311.2	314.9
9276.7	42.5°	8714.6	6596.4	1202.8	708.5	552.9	386.3	289.3	283.8	292.9	296.6
10338.5	45°	9459.7	7109.0	1115.0	690.2	534.6	400.9	276.5	269.1	280.1	281.9
11528.5	47.5°	10230.5	7610.6	1104.0	670.1	516.3	422.9	272.8	256.3	269.1	271.0
12799.1	50°	11010.4	7938.3	1115.0	638.9	487.0	422.9	274.6	243.5	254.5	260.0
14117.3	52.5°	11795.8	8088.5	1107.6	571.2	435.7	397.3	274.6	232.5	243.5	247.2
15541.6	55°	12557.4	8059.2	996.0	470.5	369.8	351.5	267.3	223.4	230.7	232.5
16887.3	57.5°	13159.8	7650.9	789.1	366.2	300.3	292.9	243.5	212.4	217.9	216.0
18121.2	60°	13474.7	6753.8	563.9	281.9	236.2	230.7	214.2	197.7	201.4	192.2
19166.6	62.5°	13478.3	5567.5	377.1	223.4	188.6	183.1	183.1	177.6	173.9	155.6
19975.8	65°	13190.9	4251.1	250.8	177.6	152.0	142.8	153.8	152.0	139.1	113.5
20223.0	67.5°	12539.1	2786.5	190.4	139.1	117.2	111.7	122.7	128.2	119.0	95.2
19322.2	70°	11199.0	1622.1	157.4	108.0	87.9	82.4	98.9	109.8	98.9	76.9
16515.6	72.5°	9302.3	875.1	128.2	80.6	60.4	54.9	78.7	89.7	78.7	56.8
10596.7	75°	6036.1	468.7	98.9	53.1	31.1	34.8	58.6	65.9	54.9	36.6
3110.5	77.5°	2026.7	206.9	62.2	25.6	14.6	14.6	34.8	40.3	25.6	12.8
565.7	80°	452.2	86.0	25.6	11.0	5.5	5.5	7.3	7.3	3.7	0.0
173.9	82.5°	148.3	34.8	11.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0
43.9	85°	56.8	12.8	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.6	87.5°	22.0	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>
4522.1
4461.7
3923.4
3121.5
2096.3
1261.4
935.5
877.0
836.7
781.8
710.3
640.8
569.4
485.2
406.4
346.0
314.9
296.6
283.8
272.8
261.8
247.2
232.5
216.0
190.4
150.1
109.8
93.4
73.2
54.9
33.0
11.0
0.0
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