

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: P956773

Luminaire Tested: **GALN-SB9B-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956773
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-SB9B-827-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 450mA 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: 34085 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

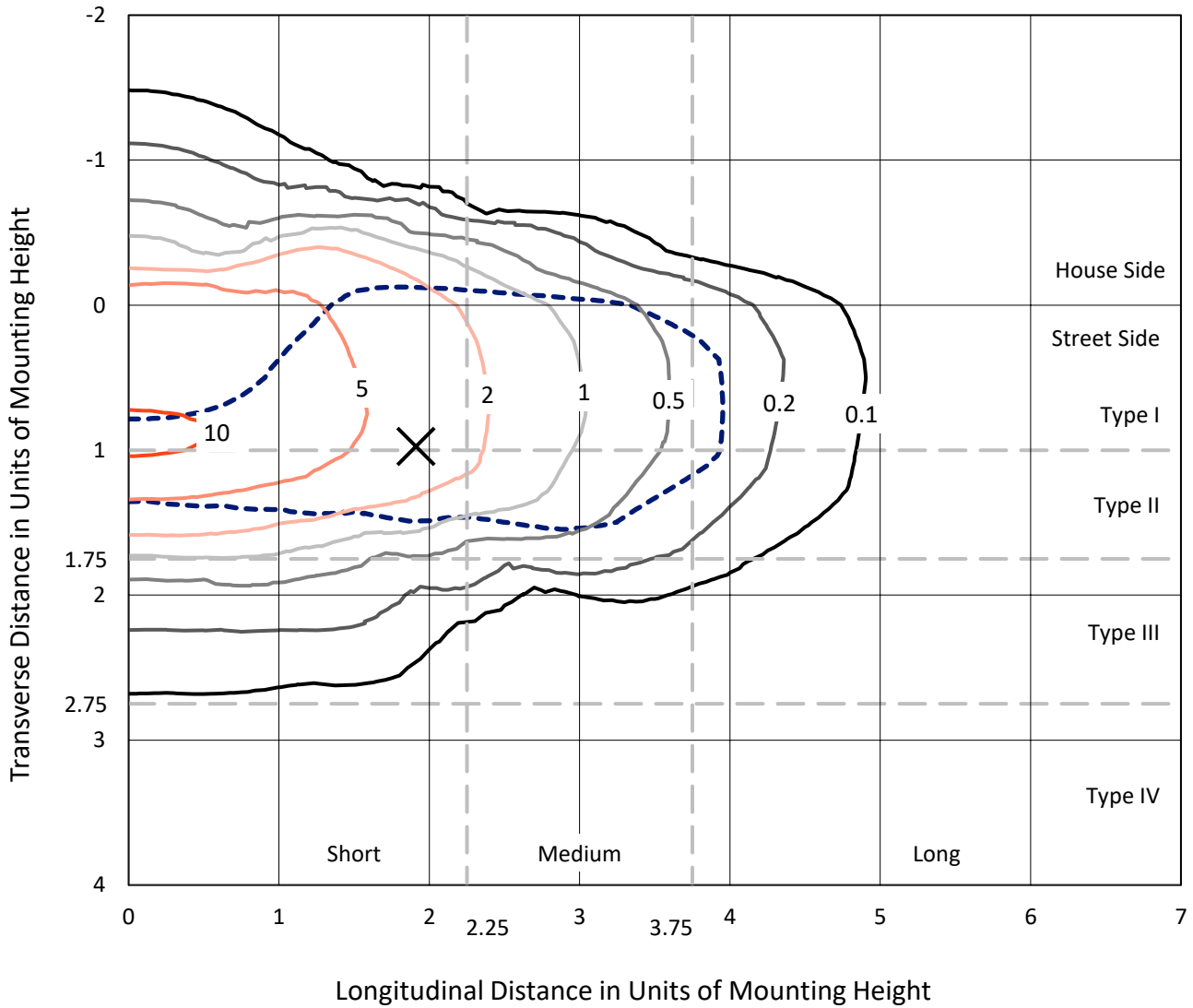
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

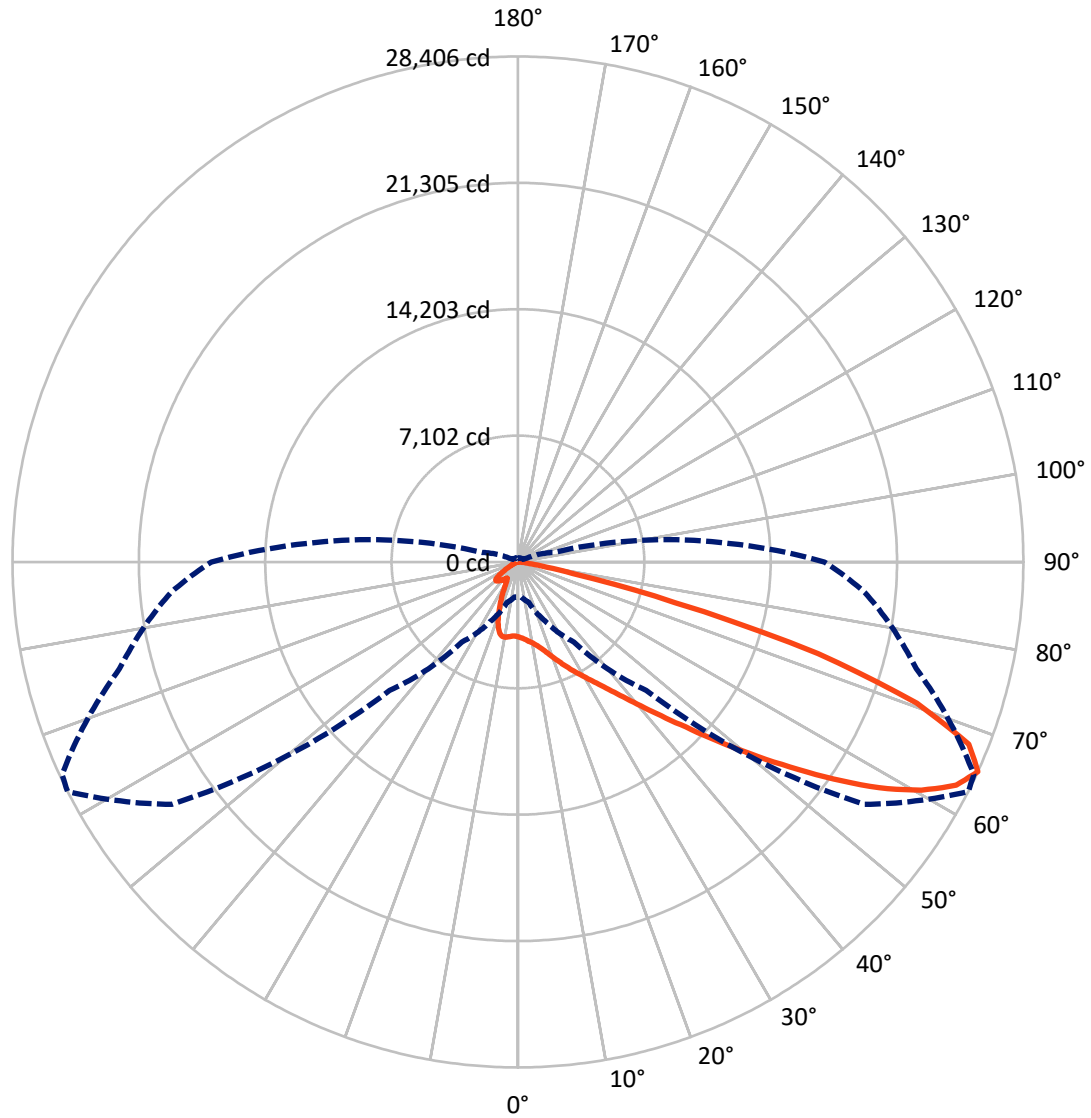
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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
House Side	Lumens	5010.2	0.0	5010.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	29074.8	0.0	29074.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	34085.0	0.0	34085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.4	1.2
10°-20°	1099.7	3.2
20°-30°	1914.9	5.6
30°-40°	3451.4	10.1
40°-50°	6845.3	20.1
50°-60°	9324.5	27.4
60°-70°	7442.7	21.8
70°-80°	3368.0	9.9
80°-90°	242.1	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°	34085.0	100.0
0°-180°	34085.0	100.0

Coefficient of Utilization



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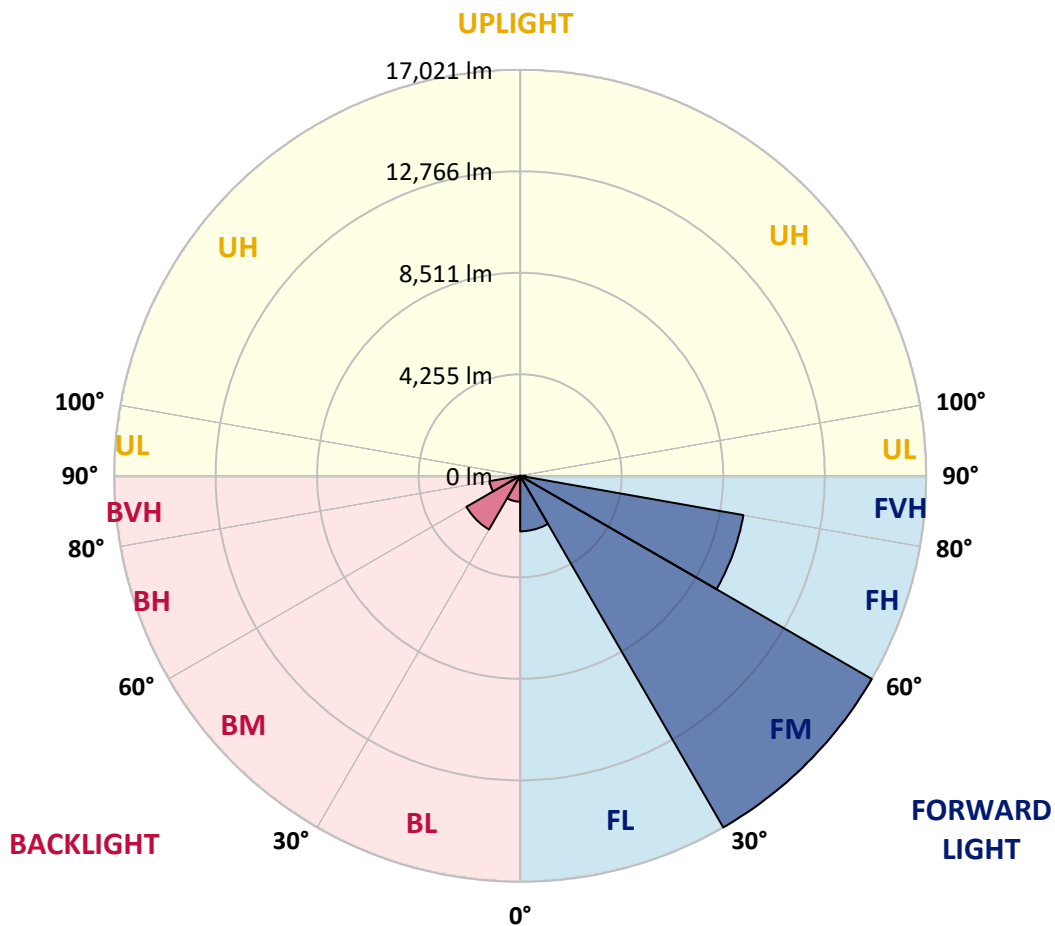
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2326.7	6.8			
FM (30°-60°)	17021.2	49.9			
FH (60°-80°)	9502.7	27.9			G4/12000
FVH (80°-90°)	224.1	0.7			G2/225
BL (0°-30°)	1084.3	3.2	B3/2500		
BM (30°-60°)	2600.0	7.6	B3/5000		
BH (60°-80°)	1308.0	3.8	B3/2500		G3/2500
BVH (80°-90°)	18.0	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°	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7
2.5°	4305.2	4293.5	4309.9	4302.9	4298.2	4288.8	4284.1	4279.4	4270.0	4263.0
5°	4316.9	4309.9	4326.3	4340.4	4354.5	4368.5	4375.6	4384.9	4375.6	4356.8
7.5°	4218.5	4213.8	4248.9	4291.1	4354.5	4408.4	4467.0	4499.8	4502.2	4495.2
10°	4211.4	4199.7	4234.9	4286.5	4368.5	4464.7	4567.8	4638.2	4647.6	4678.1
12.5°	4321.6	4309.9	4359.2	4415.4	4499.8	4600.7	4727.3	4825.8	4839.9	4882.1
15°	4506.9	4490.5	4546.7	4619.4	4727.3	4842.2	4975.9	5065.0	5076.7	5128.3
17.5°	4722.6	4706.2	4771.9	4849.2	4966.5	5123.6	5278.3	5376.8	5390.9	5423.7
20°	4999.3	4978.2	5029.8	5100.1	5224.4	5412.0	5597.3	5737.9	5735.6	5735.6
22.5°	5320.6	5287.7	5332.3	5388.6	5505.8	5733.3	5979.5	6146.0	6146.0	6080.3
25°	5665.3	5632.4	5681.7	5733.3	5836.4	6094.4	6382.8	6589.1	6598.5	6486.0
27.5°	6096.7	6054.5	6092.0	6153.0	6214.0	6476.6	6818.9	7058.1	7062.8	6889.3
30°	6926.8	6807.2	6690.0	6624.3	6652.5	6912.7	7278.5	7543.5	7567.0	7327.8
32.5°	8446.3	8422.8	8010.1	7470.8	7189.4	7381.7	7792.1	8111.0	8125.0	7817.9
35°	10807.6	10779.5	10115.9	9088.8	8171.9	8010.1	8415.8	8793.3	8784.0	8436.9
37.5°	13626.2	13600.4	12725.7	11351.6	9867.3	8959.8	9220.1	9616.4	9675.0	9220.1
40°	16034.4	15938.2	15384.8	14060.0	12118.4	10535.6	10364.4	10627.0	10688.0	10148.7
42.5°	17858.7	17776.6	17495.2	16667.5	14843.2	12866.4	11712.7	11813.6	11881.6	11234.4
45°	18803.7	18784.9	18897.5	18820.1	17619.5	15727.2	13640.2	13220.5	13246.3	12437.3
47.5°	18937.3	18928.0	19441.5	20168.4	20006.6	18953.7	16114.1	14974.5	14883.0	13795.0
50°	18149.5	18130.7	19115.5	20477.9	21601.1	21664.4	18923.3	16951.2	16749.6	15199.6
52.5°	15633.4	15628.7	17246.7	19514.2	22161.6	24037.5	21699.6	19122.6	18784.9	16686.2
55°	12029.3	12116.0	13970.9	16651.1	21139.2	25179.4	24192.2	21533.1	21014.9	18182.3
57.5°	8521.3	8648.0	10481.7	12868.8	17968.9	24504.1	25878.2	23948.4	23390.3	19673.6
60°	4577.2	4689.8	6525.8	9374.9	13368.2	21985.7	26766.9	26044.7	25517.1	21089.9
62.5°	2727.1	2764.6	3524.4	6052.2	9041.9	16796.4	26389.4	27641.6	27207.8	22278.8
65°	1958.0	1965.0	2347.2	3695.5	5489.4	10205.0	23742.0	28406.0	28272.3	23174.5
67.5°	1648.5	1643.8	1803.2	2455.1	3740.1	5111.9	18196.3	27325.0	27892.5	23742.0
70°	1414.0	1421.0	1608.6	1798.5	2811.5	2893.6	9046.6	23791.3	25001.2	23892.1
72.5°	1052.9	1076.3	1249.8	1639.1	2122.1	1990.8	3123.4	17640.6	19828.4	22510.9
75°	743.3	755.1	879.3	1378.8	1582.8	1449.1	1594.5	9119.3	11923.8	17258.4
77.5°	572.2	593.3	665.9	963.7	1559.4	1017.7	975.5	3156.2	4849.2	10425.4
80°	309.5	347.0	480.7	696.4	1095.1	719.9	483.0	1256.9	1643.8	4875.0
82.5°	159.5	178.2	335.3	501.8	623.7	628.4	239.2	522.9	677.7	1505.4
85°	63.3	77.4	225.1	276.7	321.2	309.5	107.9	211.0	243.9	417.4
87.5°	14.1	23.4	82.1	63.3	61.0	65.7	25.8	49.2	46.9	49.2
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°
4206.7	0°	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7
4234.9	2.5°	4232.5	4223.1	4197.4	4169.2	4136.4	4117.6	4105.9	4103.6	4087.1	4075.4
4328.7	5°	4302.9	4293.5	4244.3	4185.6	4122.3	4073.1	4026.2	3984.0	3923.0	3911.3
4464.7	7.5°	4443.6	4417.8	4338.0	4258.3	4138.7	3995.7	3822.2	3622.9	3444.6	3390.7
4645.2	10°	4617.1	4581.9	4481.1	4340.4	4075.4	3686.2	3266.4	2877.2	2567.7	2480.9
4858.6	12.5°	4814.1	4783.6	4649.9	4389.6	3810.4	3104.6	2462.1	1979.1	1678.9	1603.9
5086.1	15°	5048.5	5004.0	4818.7	4314.6	3336.8	2359.0	1690.7	1404.6	1296.7	1282.7
5346.3	17.5°	5297.1	5224.4	4968.8	4044.9	2699.0	1676.6	1306.1	1224.0	1177.1	1163.1
5609.0	20°	5524.6	5430.8	5057.9	3636.9	2016.6	1306.1	1170.1	1116.2	1074.0	1057.5
5871.6	22.5°	5752.0	5618.4	5057.9	3081.2	1512.5	1158.4	1074.0	1024.7	975.5	954.4
6153.0	25°	5988.8	5810.6	4968.8	2462.1	1217.0	1062.2	982.5	928.6	886.4	860.6
6420.3	27.5°	6218.6	5972.4	4764.8	1875.9	1083.3	977.8	898.1	846.5	806.6	787.9
6711.1	30°	6436.7	6131.9	4478.7	1423.3	996.6	895.7	820.7	776.2	736.3	717.5
7088.6	32.5°	6732.2	6333.5	4173.9	1167.8	921.5	818.4	750.4	708.2	673.0	658.9
7578.7	35°	7142.5	6631.3	3911.3	1146.7	858.2	755.1	687.1	647.2	612.0	600.3
8211.8	37.5°	7724.1	7112.1	3772.9	1287.3	806.6	698.8	635.5	593.3	560.4	551.0
9016.1	40°	8441.6	7763.9	3848.0	1428.0	771.5	649.5	588.6	546.4	518.2	506.5
9940.0	42.5°	9292.8	8568.2	4263.0	1535.9	748.0	607.3	544.0	497.1	478.4	473.7
10988.2	45°	10270.6	9452.3	4898.5	1650.8	710.5	567.5	499.5	464.3	450.2	447.9
12127.8	47.5°	11382.1	10423.0	5634.8	1793.8	673.0	529.9	464.3	440.8	429.1	424.4
13316.6	50°	12484.2	11400.9	6392.2	1873.6	642.5	494.8	436.1	417.4	408.0	405.7
14573.5	52.5°	13637.9	12406.8	7004.2	1798.5	616.7	466.6	412.7	398.6	389.3	386.9
15731.9	55°	14737.6	13220.5	7109.7	1526.5	565.1	438.5	386.9	379.9	368.1	368.1
16906.7	57.5°	15685.0	13628.5	6364.0	1120.9	513.5	396.3	361.1	354.1	344.7	342.4
17966.5	60°	16554.9	13511.3	4912.5	755.1	457.3	354.1	328.3	323.6	314.2	302.5
18888.1	62.5°	17045.0	12995.4	3360.2	492.4	401.0	309.5	290.8	288.4	267.3	243.9
19570.5	65°	17230.3	11935.5	2096.3	358.8	335.3	265.0	250.9	246.2	215.7	189.9
19957.4	67.5°	17068.5	10190.9	1057.5	283.7	265.0	220.4	206.4	206.4	185.2	161.8
19933.9	70°	16421.3	7639.7	445.5	227.5	204.0	168.8	168.8	178.2	157.1	131.3
18899.8	72.5°	15016.7	5140.0	236.8	173.5	152.4	119.6	138.3	145.4	124.3	98.5
15469.2	75°	11937.8	3135.1	164.1	129.0	96.1	84.4	105.5	110.2	84.4	65.7
10605.9	77.5°	8164.9	1800.9	110.2	82.1	61.0	49.2	72.7	68.0	44.6	30.5
4089.5	80°	3585.3	750.4	63.3	37.5	23.4	18.8	25.8	18.8	14.1	9.4
560.4	82.5°	419.7	175.9	23.4	14.1	9.4	4.7	2.3	0.0	0.0	0.0
171.2	85°	86.8	21.1	11.7	4.7	2.3	0.0	0.0	0.0	0.0	0.0
30.5	87.5°	16.4	4.7	2.3	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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180°
4206.7
4087.1
3906.6
3364.9
2448.1
1582.8
1268.6
1156.0
1048.2
942.6
851.2
787.9
719.9
658.9
600.3
548.7
504.2
473.7
445.5
424.4
405.7
386.9
365.8
340.0
300.1
239.2
187.6
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129.0
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