

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: P954736

Luminaire Tested: **GALN-SB7D-927-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954736
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-SB7D-927-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 900mA 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: 33665 lumens
Efficiency: N/A
Efficacy: 65.6 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

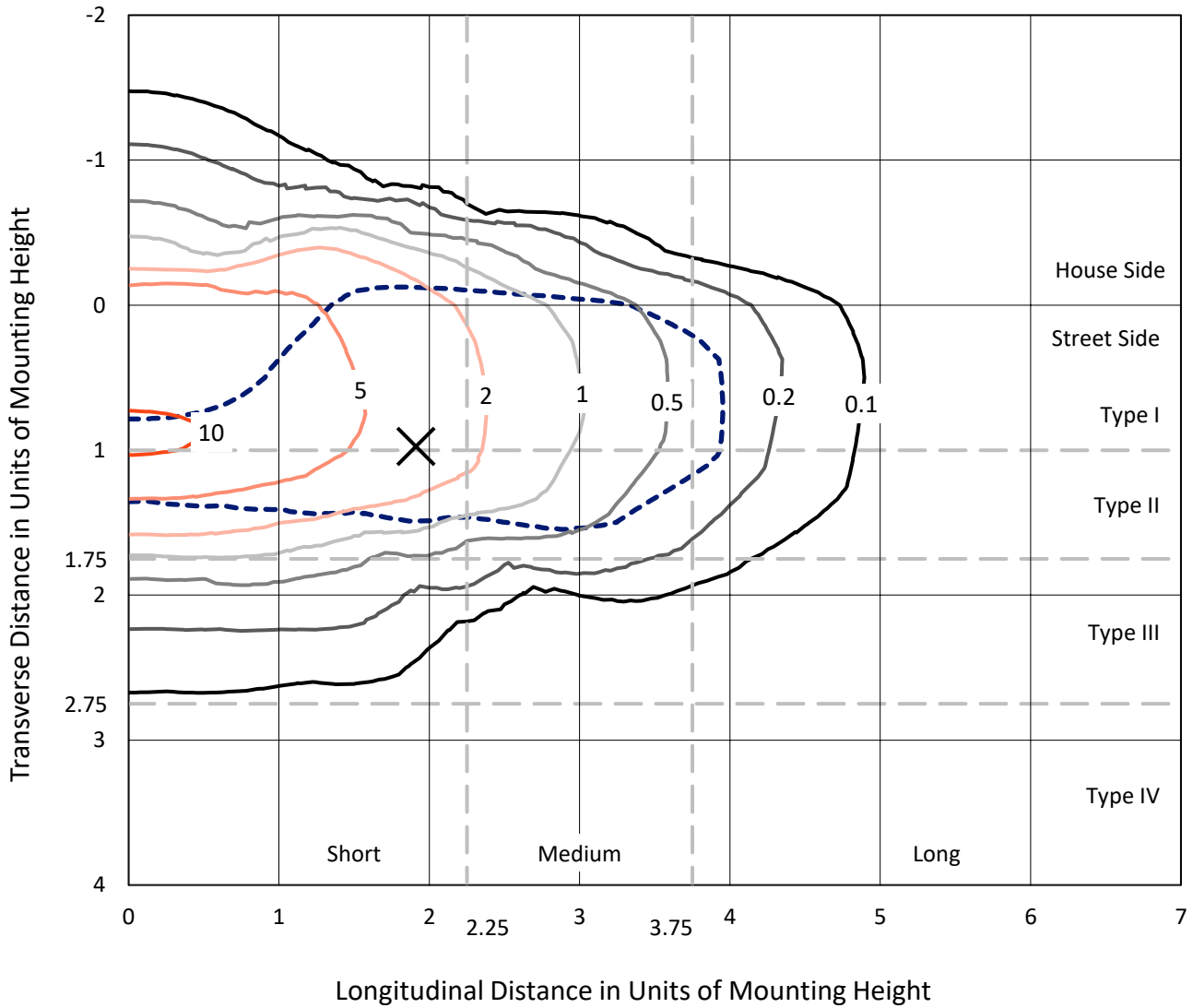
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

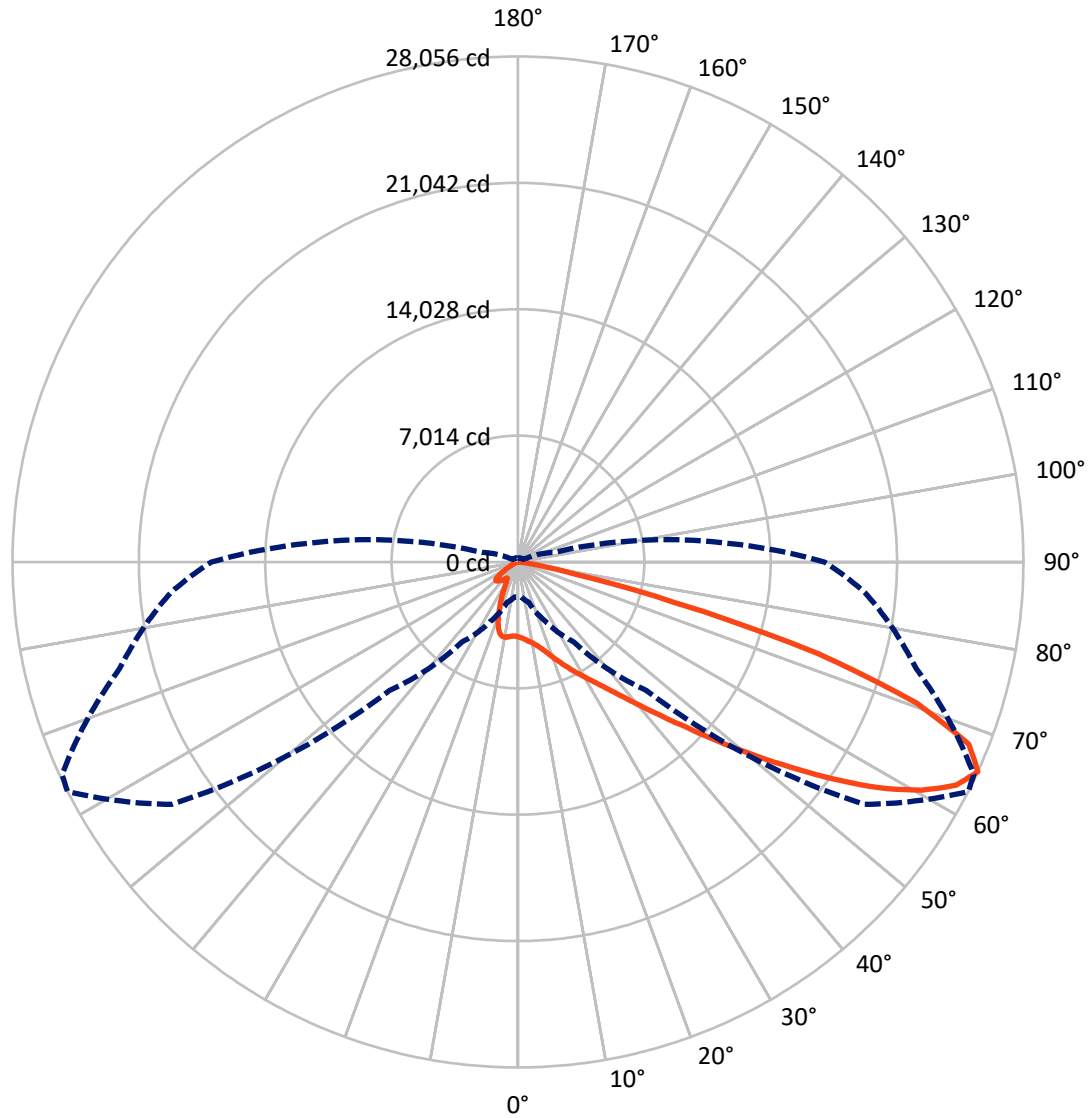
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	4948.5	0.0	4948.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	28716.5	0.0	28716.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	33665.0	0.0	33665.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.5	1.2
10°-20°	1086.2	3.2
20°-30°	1891.3	5.6
30°-40°	3408.9	10.1
40°-50°	6761.0	20.1
50°-60°	9209.6	27.4
60°-70°	7351.0	21.8
70°-80°	3326.5	9.9
80°-90°	239.1	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°	33665.0	100.0
0°-180°	33665.0	100.0

Coefficient of Utilization



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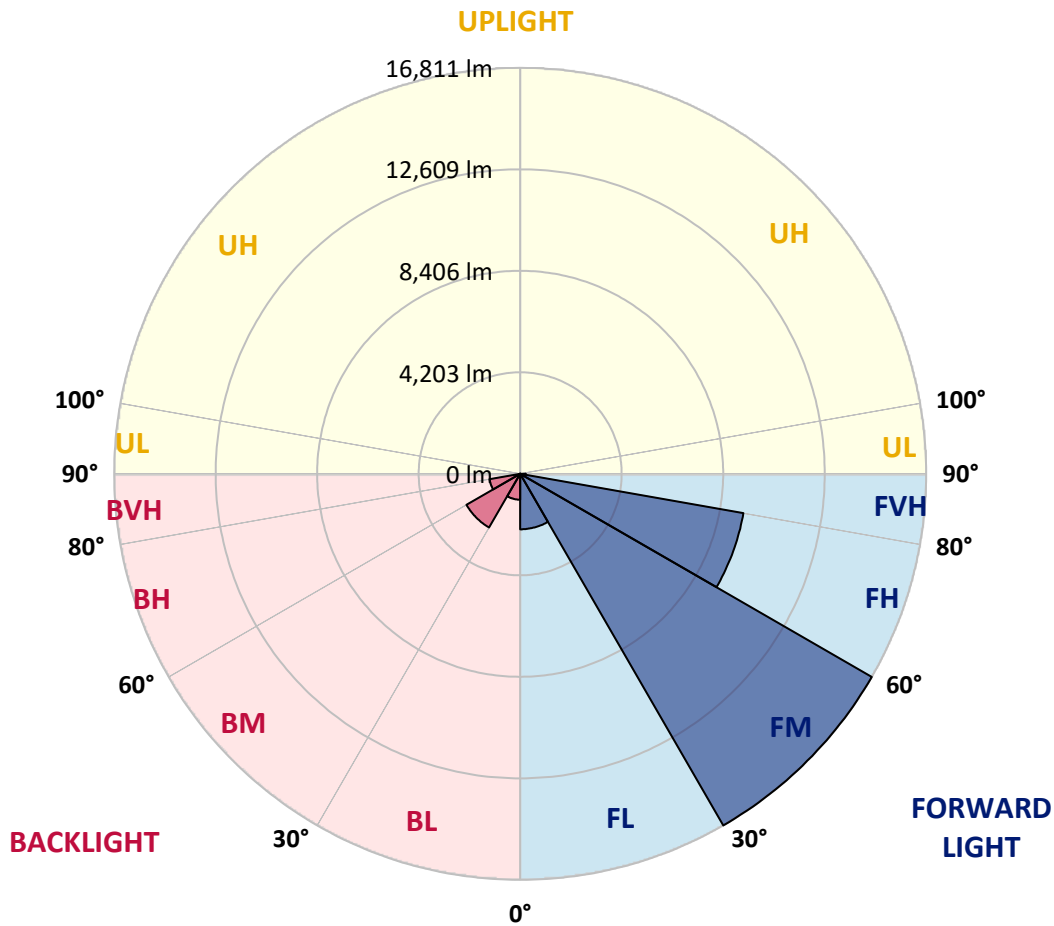
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2298.0	6.8			
FM (30°-60°)	16811.5	49.9			
FH (60°-80°)	9385.6	27.9			G4/12000
FVH (80°-90°)	221.4	0.7			G2/225
BL (0°-30°)	1070.9	3.2	B3/2500		
BM (30°-60°)	2568.0	7.6	B3/5000		
BH (60°-80°)	1291.9	3.8	B3/2500		G3/2500
BVH (80°-90°)	17.7	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°	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9
2.5°	4252.2	4240.6	4256.8	4249.9	4245.2	4236.0	4231.3	4226.7	4217.4	4210.5
5°	4263.7	4256.8	4273.0	4286.9	4300.8	4314.7	4321.6	4330.9	4321.6	4303.1
7.5°	4166.5	4161.8	4196.6	4238.3	4300.8	4354.1	4412.0	4444.4	4446.7	4439.8
10°	4159.5	4147.9	4182.7	4233.6	4314.7	4409.7	4511.6	4581.0	4590.3	4620.4
12.5°	4268.4	4256.8	4305.4	4361.0	4444.4	4544.0	4669.0	4766.3	4780.2	4821.9
15°	4451.3	4435.1	4490.7	4562.5	4669.0	4782.5	4914.5	5002.6	5014.1	5065.1
17.5°	4664.4	4648.2	4713.1	4789.5	4905.3	5060.5	5213.3	5310.6	5324.5	5356.9
20°	4937.7	4916.9	4967.8	5037.3	5160.0	5345.3	5528.3	5667.2	5664.9	5664.9
22.5°	5255.0	5222.6	5266.6	5322.2	5438.0	5662.6	5905.8	6070.2	6070.2	6005.4
25°	5595.4	5563.0	5611.7	5662.6	5764.5	6019.3	6304.1	6507.9	6517.2	6406.0
27.5°	6021.6	5979.9	6017.0	6077.2	6137.4	6396.8	6734.9	6971.1	6975.8	6804.4
30°	6841.5	6723.3	6607.5	6542.7	6570.5	6827.6	7188.9	7450.6	7473.7	7237.5
32.5°	8342.2	8319.1	7911.4	7378.8	7100.8	7290.8	7696.1	8011.0	8024.9	7721.5
35°	10674.4	10646.6	9991.2	8976.8	8071.2	7911.4	8312.1	8685.0	8675.7	8333.0
37.5°	13458.3	13432.8	12568.9	11211.7	9745.7	8849.4	9106.5	9497.9	9555.8	9106.5
40°	15836.8	15741.8	15195.3	13886.7	11969.1	10405.8	10236.7	10496.1	10556.3	10023.6
42.5°	17638.6	17557.6	17279.6	16462.1	14660.3	12707.9	11568.4	11668.0	11735.2	11095.9
45°	18572.0	18553.4	18664.6	18588.2	17402.4	15533.4	13472.1	13057.6	13083.1	12284.0
47.5°	18704.0	18694.7	19201.9	19919.9	19760.1	18720.2	15915.5	14790.0	14699.6	13625.0
50°	17925.8	17907.3	18880.0	20225.6	21335.0	21397.5	18690.1	16742.3	16543.2	15012.3
52.5°	15440.7	15436.1	17034.2	19273.7	21888.5	23741.3	21432.2	18886.9	18553.4	16480.6
55°	11881.1	11966.8	13798.7	16445.9	20878.7	24869.2	23894.1	21267.8	20756.0	17958.2
57.5°	8416.3	8541.4	10352.5	12710.2	17747.5	24202.2	25559.3	23653.3	23102.1	19431.2
60°	4520.8	4632.0	6445.4	9259.4	13203.5	21714.8	26437.1	25723.8	25202.7	20830.1
62.5°	2693.5	2730.6	3480.9	5977.6	8930.5	16589.5	26064.2	27301.0	26872.5	22004.3
65°	1933.9	1940.8	2318.3	3650.0	5421.7	10079.2	23449.5	28056.0	27924.0	22889.0
67.5°	1628.1	1623.5	1781.0	2424.8	3694.0	5048.9	17972.1	26988.3	27548.8	23449.5
70°	1396.5	1403.5	1588.8	1776.4	2776.9	2857.9	8935.1	23498.1	24693.2	23597.7
72.5°	1039.9	1063.0	1234.4	1618.9	2096.0	1966.3	3084.9	17423.2	19584.1	22233.6
75°	734.2	745.8	868.5	1361.8	1563.3	1431.3	1574.9	9006.9	11776.8	17045.7
77.5°	565.1	585.9	657.7	951.9	1540.1	1005.1	963.5	3117.3	4789.5	10296.9
80°	305.7	342.8	474.8	687.9	1081.6	711.0	477.1	1241.4	1623.5	4815.0
82.5°	157.5	176.0	331.2	495.6	616.1	620.7	236.2	516.5	669.3	1486.9
85°	62.5	76.4	222.3	273.3	317.3	305.7	106.5	208.4	240.9	412.2
87.5°	13.9	23.2	81.1	62.5	60.2	64.8	25.5	48.6	46.3	48.6
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°
4154.9	0°	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9	4154.9
4182.7	2.5°	4180.4	4171.1	4145.6	4117.8	4085.4	4066.9	4055.3	4053.0	4036.8	4025.2
4275.3	5°	4249.9	4240.6	4192.0	4134.1	4071.5	4022.9	3976.6	3934.9	3874.7	3863.1
4409.7	7.5°	4388.8	4363.3	4284.6	4205.8	4087.7	3946.5	3775.1	3578.2	3402.2	3348.9
4588.0	10°	4560.2	4525.5	4425.9	4286.9	4025.2	3640.7	3226.2	2841.7	2536.0	2450.3
4798.7	12.5°	4754.7	4724.6	4592.6	4335.5	3763.5	3066.4	2431.8	1954.7	1658.3	1584.1
5023.4	15°	4986.3	4942.3	4759.4	4261.4	3295.7	2329.9	1669.8	1387.3	1280.7	1266.8
5280.5	17.5°	5231.8	5160.0	4907.6	3995.1	2665.7	1655.9	1290.0	1208.9	1162.6	1148.7
5539.9	20°	5456.5	5363.8	4995.6	3592.1	1991.8	1290.0	1155.7	1102.4	1060.7	1044.5
5799.3	22.5°	5681.1	5549.1	4995.6	3043.2	1493.8	1144.1	1060.7	1012.1	963.5	942.6
6077.2	25°	5915.1	5739.0	4907.6	2431.8	1202.0	1049.1	970.4	917.1	875.4	850.0
6341.2	27.5°	6142.0	5898.8	4706.1	1852.8	1070.0	965.8	887.0	836.1	796.7	778.2
6628.4	30°	6357.4	6056.3	4423.6	1405.8	984.3	884.7	810.6	766.6	727.2	708.7
7001.3	32.5°	6649.2	6255.5	4122.5	1153.4	910.2	808.3	741.1	699.4	664.7	650.8
7485.3	35°	7054.5	6549.6	3863.1	1132.5	847.7	745.8	678.6	639.2	604.5	592.9
8110.6	37.5°	7628.9	7024.4	3726.4	1271.5	796.7	690.2	627.6	585.9	553.5	544.3
8905.0	40°	8337.6	7668.3	3800.5	1410.4	762.0	641.5	581.3	539.6	511.8	500.3
9817.5	42.5°	9178.3	8462.6	4210.5	1517.0	738.8	599.8	537.3	491.0	472.5	467.8
10852.8	45°	10144.1	9335.8	4838.1	1630.5	701.7	560.5	493.3	458.6	444.7	442.4
11978.3	47.5°	11241.8	10294.6	5565.3	1771.7	664.7	523.4	458.6	435.4	423.8	419.2
13152.5	50°	12330.4	11260.4	6313.4	1850.5	634.6	488.7	430.8	412.2	403.0	400.7
14393.9	52.5°	13469.8	12253.9	6917.9	1776.4	609.1	460.9	407.6	393.7	384.5	382.1
15538.0	55°	14556.0	13057.6	7022.1	1507.7	558.2	433.1	382.1	375.2	363.6	363.6
16698.3	57.5°	15491.7	13460.6	6285.6	1107.0	507.2	391.4	356.7	349.7	340.5	338.1
17745.2	60°	16350.9	13344.8	4852.0	745.8	451.6	349.7	324.2	319.6	310.3	298.8
18655.3	62.5°	16835.0	12835.3	3318.8	486.4	396.0	305.7	287.2	284.9	264.0	240.9
19329.3	65°	17017.9	11788.4	2070.5	354.3	331.2	261.7	247.8	243.2	213.1	187.6
19711.4	67.5°	16858.1	10065.3	1044.5	280.2	261.7	217.7	203.8	203.8	183.0	159.8
19688.3	70°	16218.9	7545.5	440.0	224.7	201.5	166.8	166.8	176.0	155.2	129.7
18666.9	72.5°	14831.6	5076.7	233.9	171.4	150.5	118.1	136.6	143.6	122.7	97.3
15278.6	75°	11790.7	3096.5	162.1	127.4	95.0	83.4	104.2	108.9	83.4	64.8
10475.3	77.5°	8064.3	1778.7	108.9	81.1	60.2	48.6	71.8	67.2	44.0	30.1
4039.1	80°	3541.2	741.1	62.5	37.1	23.2	18.5	25.5	18.5	13.9	9.3
553.5	82.5°	414.6	173.7	23.2	13.9	9.3	4.6	2.3	0.0	0.0	0.0
169.1	85°	85.7	20.8	11.6	4.6	2.3	0.0	0.0	0.0	0.0	0.0
30.1	87.5°	16.2	4.6	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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<u>180°</u>
4154.9
4036.8
3858.4
3323.5
2417.9
1563.3
1253.0
1141.8
1035.3
931.0
840.7
778.2
711.0
650.8
592.9
541.9
497.9
467.8
440.0
419.2
400.7
382.1
361.3
335.8
296.4
236.2
185.3
157.5
127.4
97.3
62.5
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