

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: P953917

Luminaire Tested: **GALN-SB7B-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953917
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-SB7B-827-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 26613 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

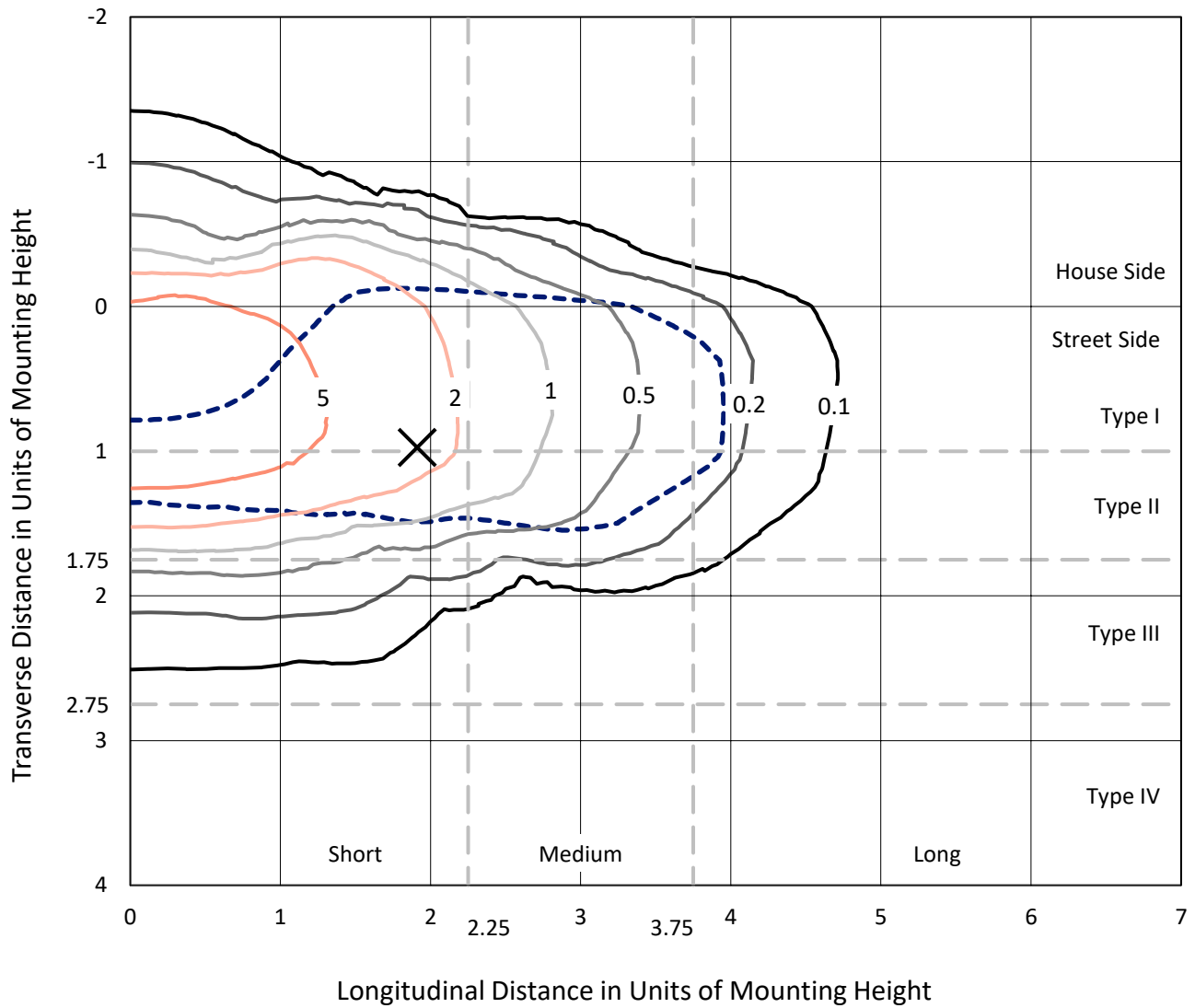
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

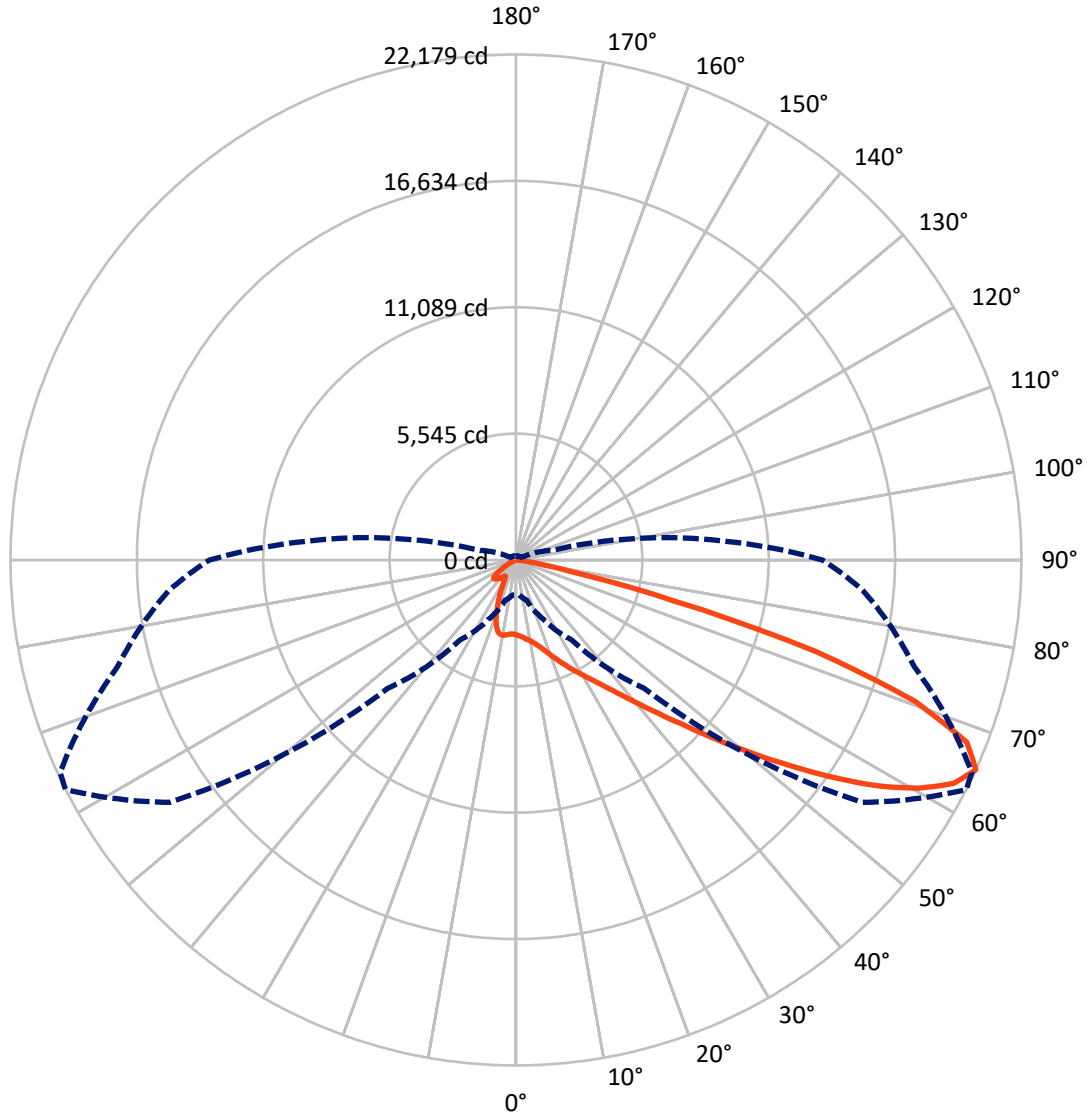
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - N/A

REPORT NUMBER: P953917
CATALOG NUMBER: GALN-SB7B-827-U-T2U-HSS

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	3911.9	0.0	3911.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	22701.1	0.0	22701.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	26613.0	0.0	26613.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.5	1.2
10°-20°	858.7	3.2
20°-30°	1495.1	5.6
30°-40°	2694.8	10.1
40°-50°	5344.7	20.1
50°-60°	7280.4	27.4
60°-70°	5811.1	21.8
70°-80°	2629.7	9.9
80°-90°	189.0	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°	26613.0	100.0
0°-180°	26613.0	100.0

Coefficient of Utilization



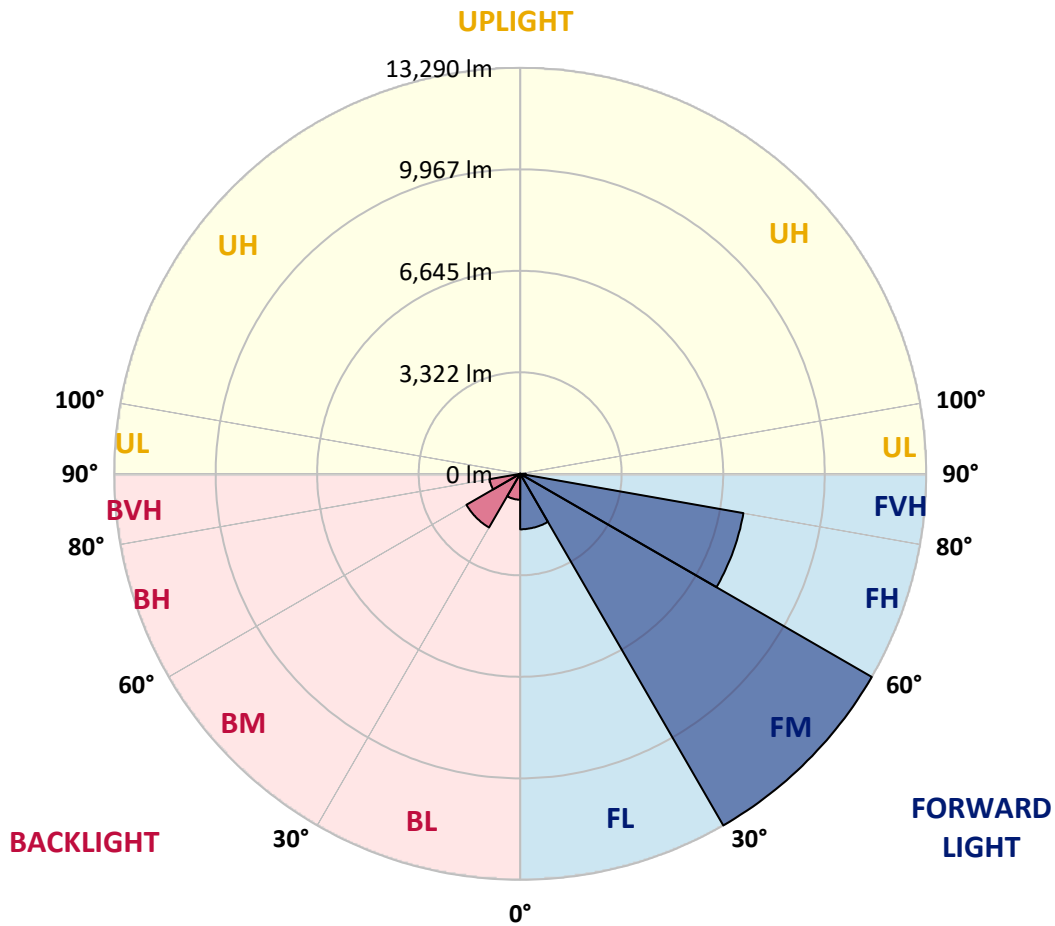
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1816.7	6.8			
FM (30°-60°)	13289.9	49.9			
FH (60°-80°)	7419.6	27.9			G3/7500
FVH (80°-90°)	175.0	0.7			G2/225
BL (0°-30°)	846.6	3.2	B2/1000		
BM (30°-60°)	2030.0	7.6	B2/2500		
BH (60°-80°)	1021.2	3.8	B3/2500		G3/2500
BVH (80°-90°)	14.0	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-G3

Type II Short



REPORT NUMBER: P953917

CATALOG NUMBER: GALN-SB7B-827-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5
2.5°	3361.4	3352.3	3365.1	3359.6	3356.0	3348.6	3345.0	3341.3	3334.0	3328.5
5°	3370.6	3365.1	3377.9	3388.9	3399.9	3410.9	3416.4	3423.7	3416.4	3401.7
7.5°	3293.7	3290.0	3317.5	3350.5	3399.9	3442.0	3487.8	3513.4	3515.2	3509.7
10°	3288.2	3279.1	3306.5	3346.8	3410.9	3485.9	3566.5	3621.4	3628.7	3652.5
12.5°	3374.3	3365.1	3403.6	3447.5	3513.4	3592.1	3691.0	3767.9	3778.9	3811.8
15°	3518.9	3506.1	3550.0	3606.8	3691.0	3780.7	3885.1	3954.6	3963.8	4004.1
17.5°	3687.3	3674.5	3725.8	3786.2	3877.7	4000.4	4121.2	4198.1	4209.1	4234.8
20°	3903.4	3886.9	3927.2	3982.1	4079.1	4225.6	4370.2	4480.1	4478.3	4478.3
22.5°	4154.2	4128.6	4163.4	4207.3	4298.8	4476.4	4668.7	4798.7	4798.7	4747.4
25°	4423.3	4397.7	4436.2	4476.4	4557.0	4758.4	4983.6	5144.7	5152.0	5064.1
27.5°	4760.2	4727.3	4756.6	4804.2	4851.8	5056.8	5324.1	5510.9	5514.5	5379.0
30°	5408.3	5315.0	5223.4	5172.2	5194.1	5397.3	5683.0	5889.8	5908.2	5721.4
32.5°	6594.7	6576.4	6254.2	5833.1	5613.4	5763.5	6083.9	6332.9	6343.9	6104.1
35°	8438.4	8416.4	7898.3	7096.4	6380.5	6254.2	6570.9	6865.7	6858.4	6587.4
37.5°	10639.1	10618.9	9936.0	8863.2	7704.2	6995.7	7198.9	7508.3	7554.1	7198.9
40°	12519.4	12444.3	12012.2	10977.8	9461.8	8226.0	8092.4	8297.4	8345.0	7923.9
42.5°	13943.8	13879.7	13660.0	13013.7	11589.3	10045.9	9145.1	9223.8	9276.9	8771.6
45°	14681.6	14666.9	14754.8	14694.4	13757.0	12279.5	10650.1	10322.3	10342.5	9710.8
47.5°	14786.0	14778.6	15179.6	15747.2	15620.8	14798.8	12581.6	11691.8	11620.4	10770.9
50°	14170.8	14156.1	14925.1	15988.8	16865.8	16915.2	14775.0	13235.2	13077.8	11867.6
52.5°	12206.3	12202.6	13465.9	15236.3	17303.4	18768.1	16942.7	14930.6	14666.9	13028.3
55°	9392.3	9460.0	10908.2	13000.9	16505.1	19659.7	18888.9	16812.7	16408.1	14196.4
57.5°	6653.3	6752.2	8183.9	10047.7	14029.8	19132.4	20205.3	18698.5	18262.7	15360.8
60°	3573.8	3661.7	5095.3	7319.7	10437.7	17166.1	20899.2	20335.3	19923.3	16466.7
62.5°	2129.3	2158.6	2751.8	4725.4	7059.8	13114.4	20604.4	21582.1	21243.4	17394.9
65°	1528.8	1534.3	1832.7	2885.4	4286.0	7967.9	18537.4	22178.9	22074.6	18094.3
67.5°	1287.1	1283.4	1407.9	1916.9	2920.2	3991.3	14207.4	21334.9	21778.0	18537.4
70°	1104.0	1109.5	1256.0	1404.3	2195.2	2259.3	7063.4	18575.8	19520.5	18654.5
72.5°	822.1	840.4	975.8	1279.8	1656.9	1554.4	2438.7	13773.5	15481.7	17576.2
75°	580.4	589.5	686.6	1076.5	1235.8	1131.5	1245.0	7120.2	9309.9	13475.1
77.5°	446.7	463.2	520.0	752.5	1217.5	794.6	761.6	2464.3	3786.2	8140.0
80°	241.7	271.0	375.3	543.8	855.0	562.1	377.2	981.3	1283.4	3806.3
82.5°	124.5	139.1	261.8	391.8	487.0	490.7	186.7	408.3	529.1	1175.4
85°	49.4	60.4	175.8	216.0	250.8	241.7	84.2	164.8	190.4	325.9
87.5°	11.0	18.3	64.1	49.4	47.6	51.3	20.1	38.4	36.6	38.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953917
 CATALOG NUMBER: GALN-SB7B-827-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3284.5	0°	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5
3306.5	2.5°	3304.7	3297.4	3277.2	3255.3	3229.6	3215.0	3205.8	3204.0	3191.2	3182.0
3379.8	5°	3359.6	3352.3	3313.8	3268.1	3218.6	3180.2	3143.6	3110.6	3063.0	3053.9
3485.9	7.5°	3469.5	3449.3	3387.1	3324.8	3231.5	3119.8	2984.3	2828.7	2689.5	2647.4
3626.9	10°	3604.9	3577.5	3498.8	3388.9	3182.0	2878.1	2550.4	2246.5	2004.8	1937.0
3793.5	12.5°	3758.7	3734.9	3630.6	3427.4	2975.1	2424.0	1922.4	1545.2	1310.9	1252.3
3971.1	15°	3941.8	3907.0	3762.4	3368.8	2605.3	1841.8	1320.0	1096.7	1012.5	1001.5
4174.3	17.5°	4135.9	4079.1	3879.6	3158.2	2107.3	1309.1	1019.8	955.7	919.1	908.1
4379.4	20°	4313.5	4240.3	3949.1	2839.7	1574.5	1019.8	913.6	871.5	838.5	825.7
4584.5	22.5°	4491.1	4386.7	3949.1	2405.7	1180.9	904.4	838.5	800.1	761.6	745.2
4804.2	25°	4676.0	4536.8	3879.6	1922.4	950.2	829.4	767.1	725.0	692.1	671.9
5012.9	27.5°	4855.4	4663.2	3720.3	1464.7	845.9	763.5	701.2	660.9	629.8	615.2
5239.9	30°	5025.7	4787.7	3496.9	1111.3	778.1	699.4	640.8	606.0	574.9	560.2
5534.7	32.5°	5256.4	4945.1	3258.9	911.8	719.5	639.0	585.9	552.9	525.5	514.5
5917.3	35°	5576.8	5177.6	3053.9	895.3	670.1	589.5	536.4	505.3	477.9	468.7
6411.6	37.5°	6030.8	5553.0	2945.8	1005.1	629.8	545.6	496.2	463.2	437.6	430.3
7039.6	40°	6591.1	6061.9	3004.4	1115.0	602.4	507.1	459.5	426.6	404.6	395.5
7761.0	42.5°	7255.7	6689.9	3328.5	1199.2	584.0	474.2	424.8	388.1	373.5	369.8
8579.4	45°	8019.1	7380.2	3824.6	1288.9	554.7	443.1	390.0	362.5	351.5	349.7
9469.2	47.5°	8887.0	8138.1	4399.5	1400.6	525.5	413.8	362.5	344.2	335.0	331.4
10397.4	50°	9747.5	8901.6	4990.9	1462.9	501.7	386.3	340.5	325.9	318.6	316.7
11378.7	52.5°	10648.2	9687.0	5468.8	1404.3	481.5	364.3	322.2	311.2	303.9	302.1
12283.2	55°	11506.9	10322.3	5551.1	1191.9	441.2	342.4	302.1	296.6	287.4	287.4
13200.4	57.5°	12246.6	10640.9	4968.9	875.1	401.0	309.4	282.0	276.5	269.1	267.3
14028.0	60°	12925.8	10549.4	3835.6	589.5	357.0	276.5	256.3	252.7	245.3	236.2
14747.5	62.5°	13308.5	10146.6	2623.6	384.5	313.1	241.7	227.0	225.2	208.7	190.4
15280.3	65°	13453.1	9319.0	1636.8	280.1	261.8	206.9	195.9	192.2	168.4	148.3
15582.4	67.5°	13326.8	7956.9	825.7	221.5	206.9	172.1	161.1	161.1	144.6	126.3
15564.1	70°	12821.5	5964.9	347.9	177.6	159.3	131.8	131.8	139.1	122.7	102.5
14756.7	72.5°	11724.8	4013.2	184.9	135.5	119.0	93.4	108.0	113.5	97.0	76.9
12078.1	75°	9320.9	2447.8	128.2	100.7	75.1	65.9	82.4	86.1	65.9	51.3
8280.9	77.5°	6375.0	1406.1	86.1	64.1	47.6	38.4	56.8	53.1	34.8	23.8
3193.0	80°	2799.4	585.9	49.4	29.3	18.3	14.6	20.1	14.6	11.0	7.3
437.6	82.5°	327.7	137.3	18.3	11.0	7.3	3.7	1.8	0.0	0.0	0.0
133.7	85°	67.7	16.5	9.2	3.7	1.8	0.0	0.0	0.0	0.0	0.0
23.8	87.5°	12.8	3.7	1.8	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>
3284.5
3191.2
3050.2
2627.3
1911.4
1235.8
990.5
902.6
818.4
736.0
664.6
615.2
562.1
514.5
468.7
428.4
393.6
369.8
347.9
331.4
316.7
302.1
285.6
265.5
234.3
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146.5
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