

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: P955515

Luminaire Tested: **GALN-SB8B-940-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955515
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-SB8B-940-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 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: 27470 lumens
Efficiency: N/A
Efficacy: 93.8 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

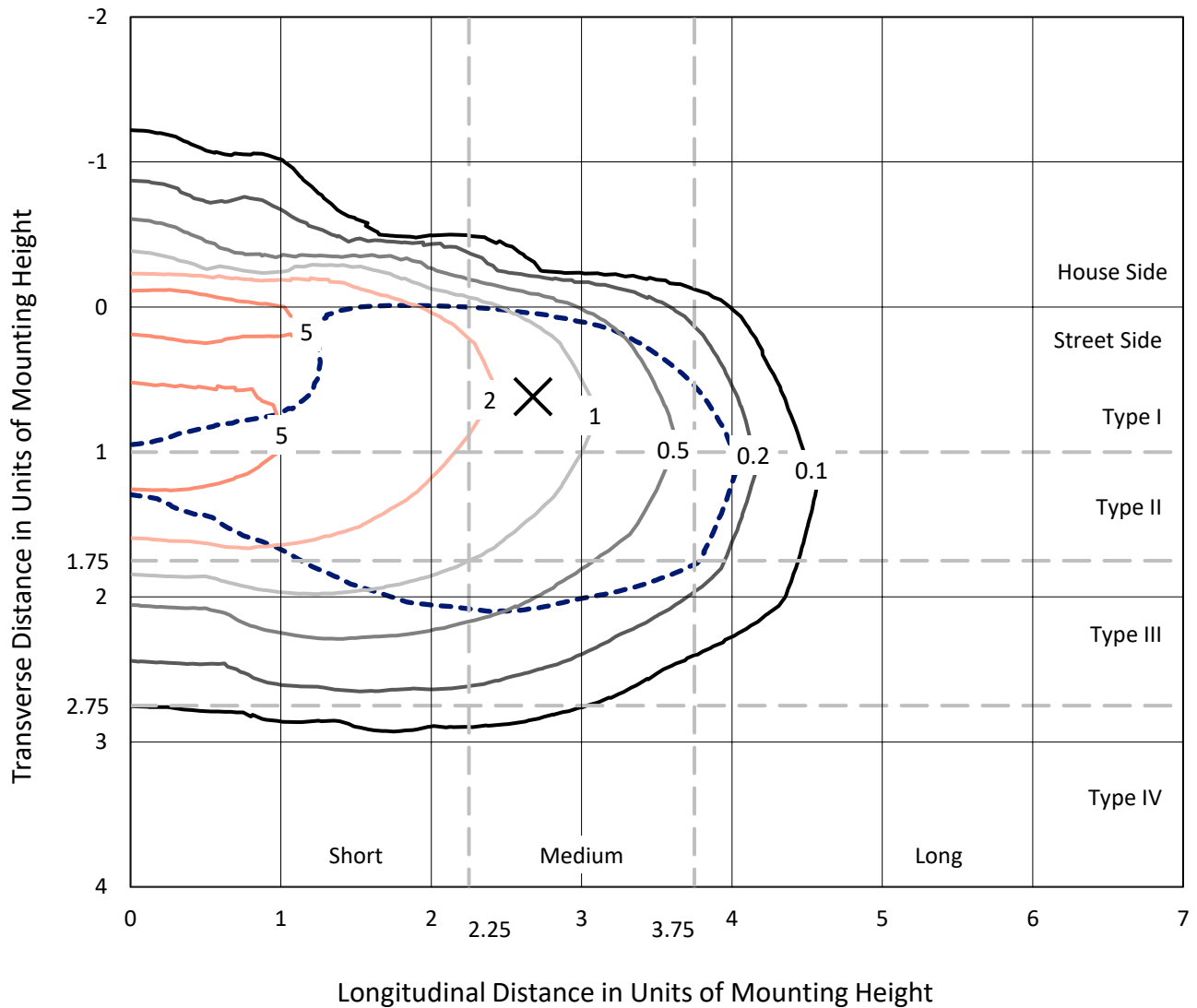
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

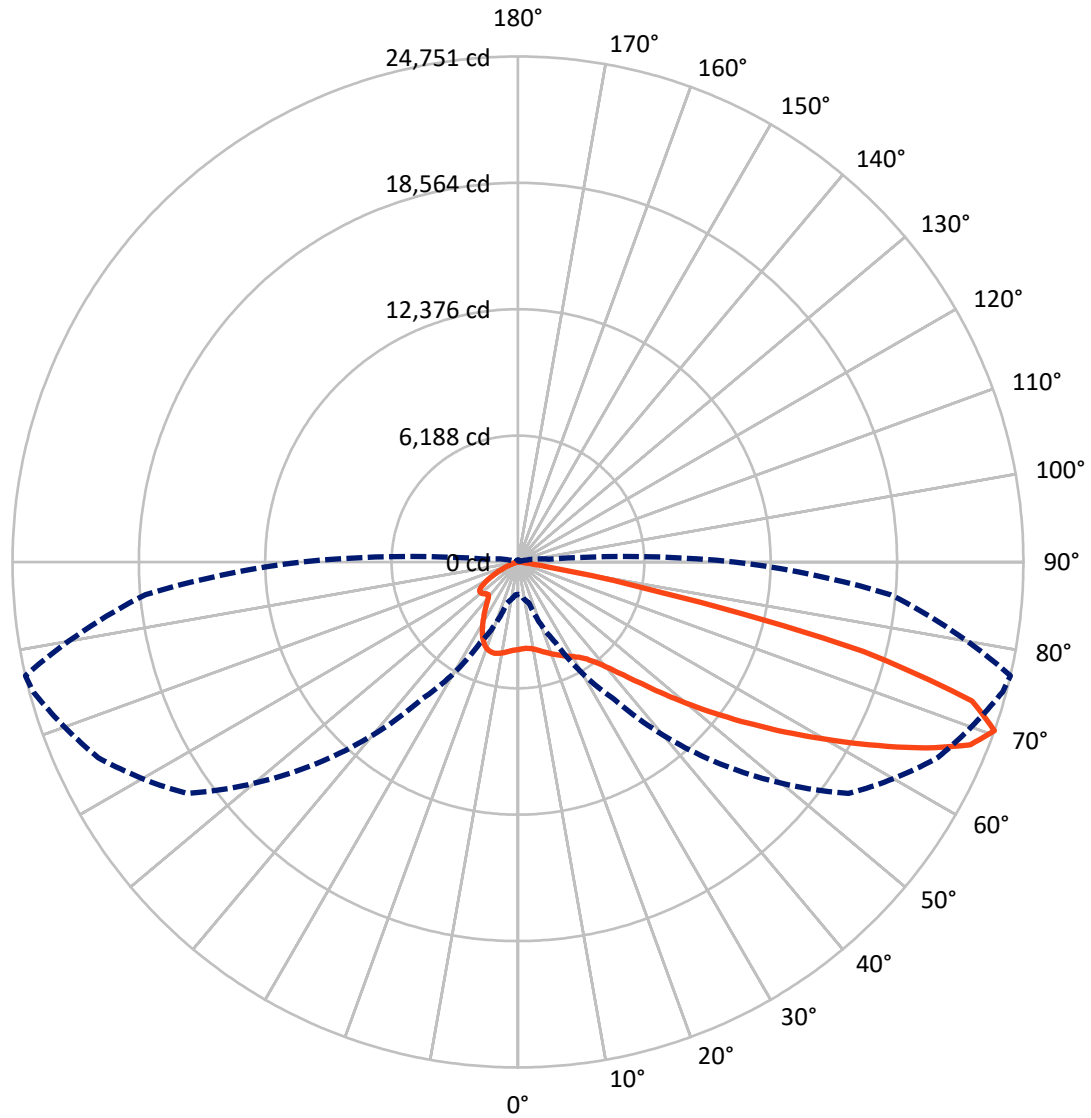
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	2895.7	0.0	2895.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	24574.3	0.0	24574.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	27470.0	0.0	27470.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.3	1.3
10°-20°	876.6	3.2
20°-30°	1355.9	4.9
30°-40°	2460.4	9.0
40°-50°	4644.3	16.9
50°-60°	6710.6	24.4
60°-70°	7143.2	26.0
70°-80°	3785.4	13.8
80°-90°	124.3	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°	27470.0	100.0
0°-180°	27470.0	100.0

Coefficient of Utilization



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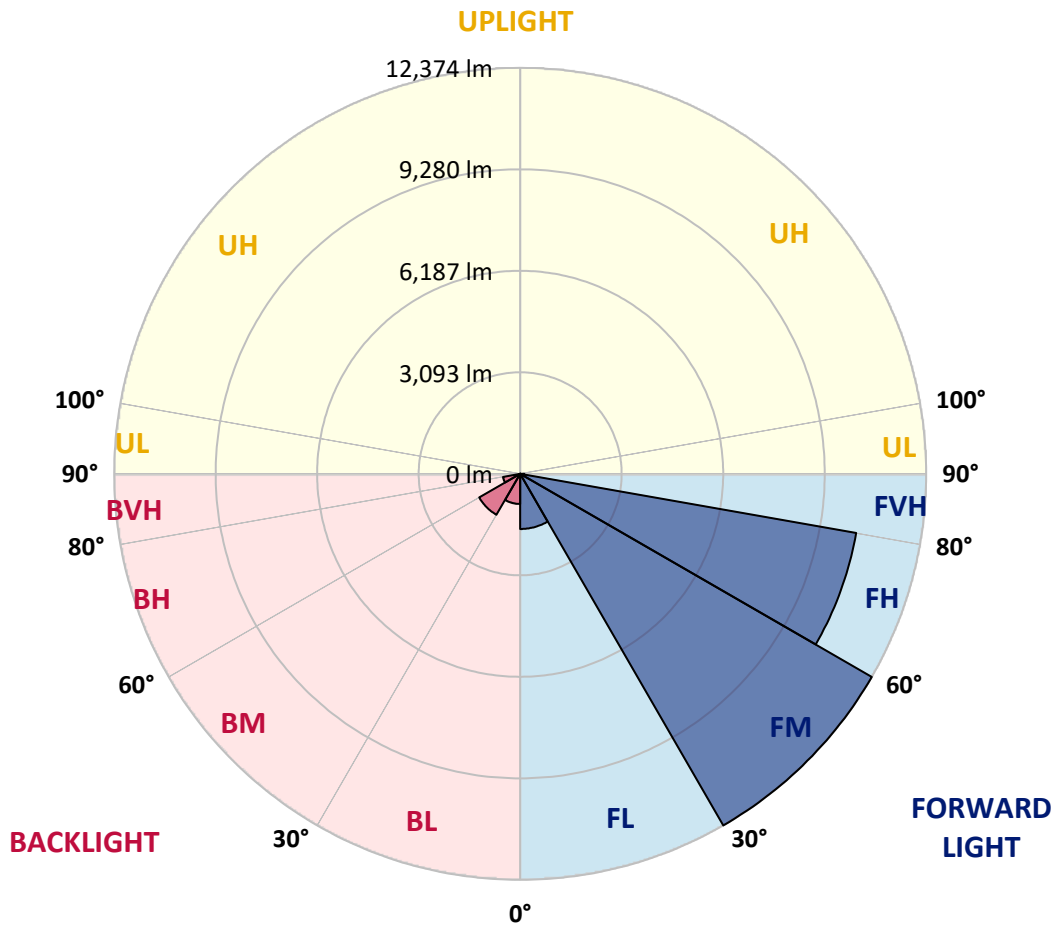
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1681.8	6.1			
FM (30°-60°)	12373.7	45.0			
FH (60°-80°)	10397.8	37.9			G4/12000
FVH (80°-90°)	121.0	0.4			G2/225
BL (0°-30°)	920.0	3.3	B2/1000		
BM (30°-60°)	1441.5	5.2	B2/2500		
BH (60°-80°)	530.9	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.3	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°	4284.8	4284.8	4284.8	4284.8	4284.8	4284.8	4284.8	4284.8	4284.8	4284.8
2.5°	4022.9	4059.3	4054.1	4078.4	4087.1	4121.8	4156.5	4203.3	4255.3	4253.6
5°	3795.6	3832.1	3840.7	3873.7	3915.3	3969.1	4040.2	4133.9	4231.0	4246.7
7.5°	3526.7	3564.9	3587.5	3653.4	3729.7	3840.7	3957.0	4094.0	4255.3	4277.9
10°	3257.9	3292.5	3322.0	3415.7	3537.1	3701.9	3891.0	4088.8	4305.6	4338.6
12.5°	3091.3	3124.3	3157.2	3238.8	3389.7	3590.9	3847.7	4113.1	4388.9	4435.7
15°	3032.3	3061.8	3087.8	3160.7	3301.2	3530.2	3839.0	4163.4	4494.7	4557.2
17.5°	3041.0	3056.6	3074.0	3129.5	3266.5	3502.5	3854.6	4250.1	4619.6	4675.1
20°	3091.3	3100.0	3101.7	3139.9	3261.3	3499.0	3885.8	4333.4	4737.6	4812.2
22.5°	3155.5	3159.0	3155.5	3181.5	3294.3	3525.0	3927.5	4434.0	4869.4	4938.8
25°	3455.6	3389.7	3306.4	3256.1	3349.8	3575.3	3989.9	4569.3	5013.4	5081.1
27.5°	4387.2	4198.1	3899.7	3564.9	3464.3	3648.2	4076.7	4706.4	5159.1	5219.9
30°	5899.9	5651.8	5145.3	4390.6	3832.1	3800.8	4189.4	4843.4	5313.5	5379.4
32.5°	7416.0	7355.3	6770.7	5726.4	4659.5	4140.8	4376.8	5029.0	5518.2	5570.3
35°	8949.6	8826.4	8347.6	7315.4	5934.6	4833.0	4689.0	5271.9	5787.1	5846.1
37.5°	10124.0	10049.4	9752.7	8902.7	7447.3	5901.6	5223.3	5648.3	6177.4	6243.4
40°	11161.4	11126.7	11026.0	10465.7	9138.6	7299.8	6054.3	6231.2	6718.7	6796.7
42.5°	11976.7	12058.2	12115.5	11959.3	10882.1	8895.8	7171.4	7050.0	7473.3	7553.1
45°	12811.1	12838.9	13069.6	13295.1	12613.3	10564.6	8430.9	8009.3	8411.8	8510.7
47.5°	13347.1	13458.2	13864.1	14261.4	14068.8	12219.6	9784.0	9142.1	9499.5	9685.1
50°	13387.0	13596.9	14155.5	14847.7	15128.7	13794.7	11255.0	10432.8	10812.7	11017.4
52.5°	12722.6	13048.8	13914.4	14927.5	15701.2	15128.7	12776.4	11723.4	12210.9	12478.0
55°	9754.5	10181.2	13007.1	14493.8	15723.7	16140.1	14257.9	13067.8	13768.7	14070.5
57.5°	8498.5	8713.6	10226.3	13740.9	15305.7	16547.7	15597.1	14348.1	15463.5	15838.2
60°	7070.8	7353.6	8576.6	12509.3	14738.4	16587.6	16780.2	15999.6	17300.6	17722.2
62.5°	4805.2	5112.3	6328.4	10392.9	13963.0	16568.6	17749.9	17699.6	19342.4	19795.2
65°	2976.8	3169.4	3970.8	8486.4	12878.8	16589.4	18764.8	19764.0	21497.0	21956.7
67.5°	2352.3	2440.8	2858.9	6515.7	11010.4	16121.0	19777.8	21705.1	23524.9	23889.2
70°	1580.4	1634.1	2080.0	4368.1	8191.5	13959.5	19758.8	22680.1	24569.2	24751.4
72.5°	832.7	874.3	1216.1	2022.7	4947.5	9922.8	16655.3	21514.3	23530.1	23256.0
75°	416.3	485.7	818.8	1027.0	2112.9	5533.8	10342.6	16962.4	18520.2	17458.5
77.5°	315.7	381.6	676.6	676.6	735.5	1863.1	4380.2	9251.4	8533.2	7105.5
80°	201.2	260.2	591.5	511.8	307.1	473.6	1141.5	2591.7	1812.8	1379.1
82.5°	118.0	170.0	492.7	338.3	171.7	175.2	322.7	551.6	470.1	366.0
85°	46.8	111.0	338.3	133.6	67.7	43.4	97.1	118.0	97.1	72.9
87.5°	0.0	26.0	59.0	0.0	5.2	3.5	6.9	8.7	8.7	6.9
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°
4284.8	0°	4284.8	4284.8	4284.8	4284.8	4284.8	4284.8	4284.8	4284.8	4284.8	4284.8
4288.3	2.5°	4303.9	4307.4	4317.8	4319.5	4295.2	4264.0	4251.9	4246.7	4225.8	4224.1
4316.0	5°	4355.9	4371.6	4355.9	4310.8	4203.3	4052.4	3937.9	3844.2	3759.2	3733.2
4411.5	7.5°	4460.0	4475.6	4428.8	4251.9	3981.2	3681.1	3410.5	3219.7	3047.9	2983.8
4527.7	10°	4609.2	4630.0	4482.6	4125.2	3646.4	3164.2	2706.2	2383.5	2132.0	2029.7
4685.6	12.5°	4796.6	4805.2	4512.1	3932.7	3211.0	2522.3	1873.5	1528.3	1304.5	1221.3
4876.4	15°	5003.0	4990.9	4515.5	3670.7	2617.7	1783.3	1223.0	1004.4	914.2	886.5
5067.2	17.5°	5219.9	5169.5	4446.2	3292.5	1967.2	1219.5	907.3	855.2	839.6	832.7
5256.3	20°	5433.2	5320.5	4319.5	2798.1	1412.1	910.7	824.0	808.4	799.7	796.2
5447.1	22.5°	5627.5	5435.0	4102.7	2223.9	1025.2	804.9	778.9	765.0	749.4	742.5
5632.7	25°	5816.6	5500.9	3797.4	1687.9	820.5	752.9	732.1	706.0	685.2	676.6
5832.2	27.5°	6000.5	5542.5	3415.7	1249.0	732.1	704.3	666.1	629.7	614.1	610.6
6045.6	30°	6196.5	5556.4	2982.0	931.6	678.3	643.6	588.1	546.4	537.8	539.5
6333.6	32.5°	6435.9	5577.2	2544.9	763.3	633.2	570.7	504.8	461.4	454.5	461.4
6753.4	35°	6722.1	5618.8	2123.3	702.6	593.3	496.1	425.0	388.6	381.6	386.8
7291.1	37.5°	7110.7	5686.5	1729.5	690.4	560.3	433.7	357.4	327.9	327.9	329.6
7950.3	40°	7627.7	5866.9	1377.4	681.8	543.0	386.8	301.8	289.7	294.9	298.4
8790.0	42.5°	8257.4	6250.3	1139.7	671.3	523.9	366.0	274.1	268.9	277.6	281.0
9796.1	45°	8963.4	6736.0	1056.5	654.0	506.5	379.9	261.9	255.0	265.4	267.2
10923.7	47.5°	9693.8	7211.3	1046.1	634.9	489.2	400.7	258.5	242.9	255.0	256.7
12127.6	50°	10432.8	7521.9	1056.5	605.4	461.4	400.7	260.2	230.7	241.1	246.3
13376.6	52.5°	11177.0	7664.1	1049.5	541.2	412.9	376.4	260.2	220.3	230.7	234.2
14726.3	55°	11898.6	7636.4	943.7	445.8	350.4	333.1	253.3	211.6	218.6	220.3
16001.3	57.5°	12469.4	7249.5	747.7	346.9	284.5	277.6	230.7	201.2	206.4	204.7
17170.5	60°	12767.7	6399.5	534.3	267.2	223.8	218.6	203.0	187.4	190.8	182.1
18161.1	62.5°	12771.2	5275.4	357.4	211.6	178.7	173.5	173.5	168.3	164.8	147.5
18927.8	65°	12498.8	4028.1	237.7	168.3	144.0	135.3	145.7	144.0	131.8	107.6
19162.0	67.5°	11881.3	2640.3	180.4	131.8	111.0	105.8	116.2	121.4	112.8	90.2
18308.5	70°	10611.4	1537.0	149.2	102.4	83.3	78.1	93.7	104.1	93.7	72.9
15649.1	72.5°	8814.2	829.2	121.4	76.3	57.2	52.0	74.6	85.0	74.6	53.8
10040.7	75°	5719.5	444.1	93.7	50.3	29.5	33.0	55.5	62.5	52.0	34.7
2947.3	77.5°	1920.4	196.0	59.0	24.3	13.9	13.9	33.0	38.2	24.3	12.1
536.0	80°	428.5	81.5	24.3	10.4	5.2	5.2	6.9	6.9	3.5	0.0
164.8	82.5°	140.5	33.0	10.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0
41.6	85°	53.8	12.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.9	87.5°	20.8	1.7	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>
4284.8
4227.6
3717.6
2957.7
1986.3
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792.8
740.7
673.1
607.2
539.5
459.7
385.1
327.9
298.4
281.0
268.9
258.5
248.1
234.2
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