

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: P955011

Luminaire Tested: **GALN-SB8A-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955011
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-SB8A-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 350mA 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: 27135 lumens
Efficiency: N/A
Efficacy: 119.5 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

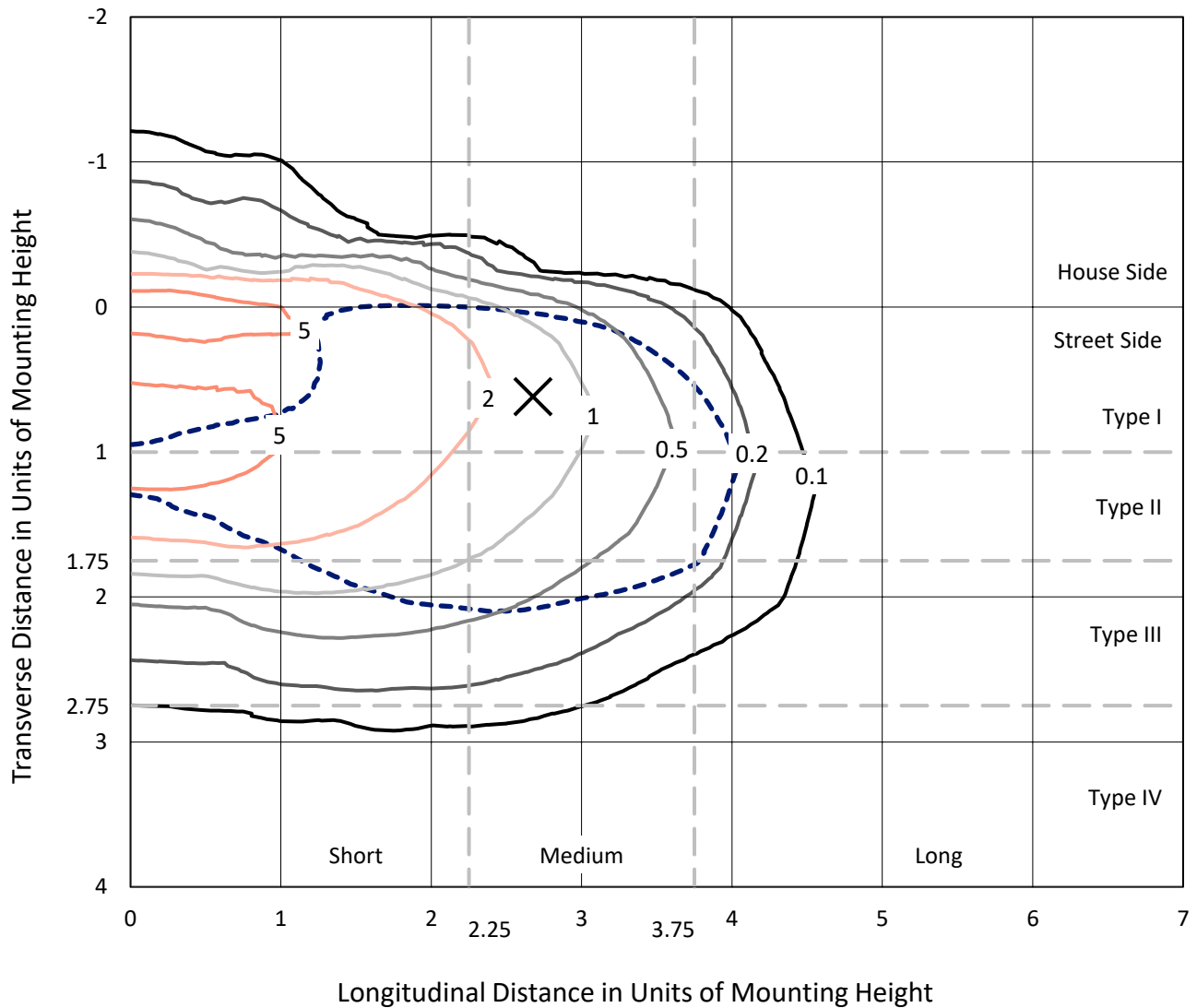
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

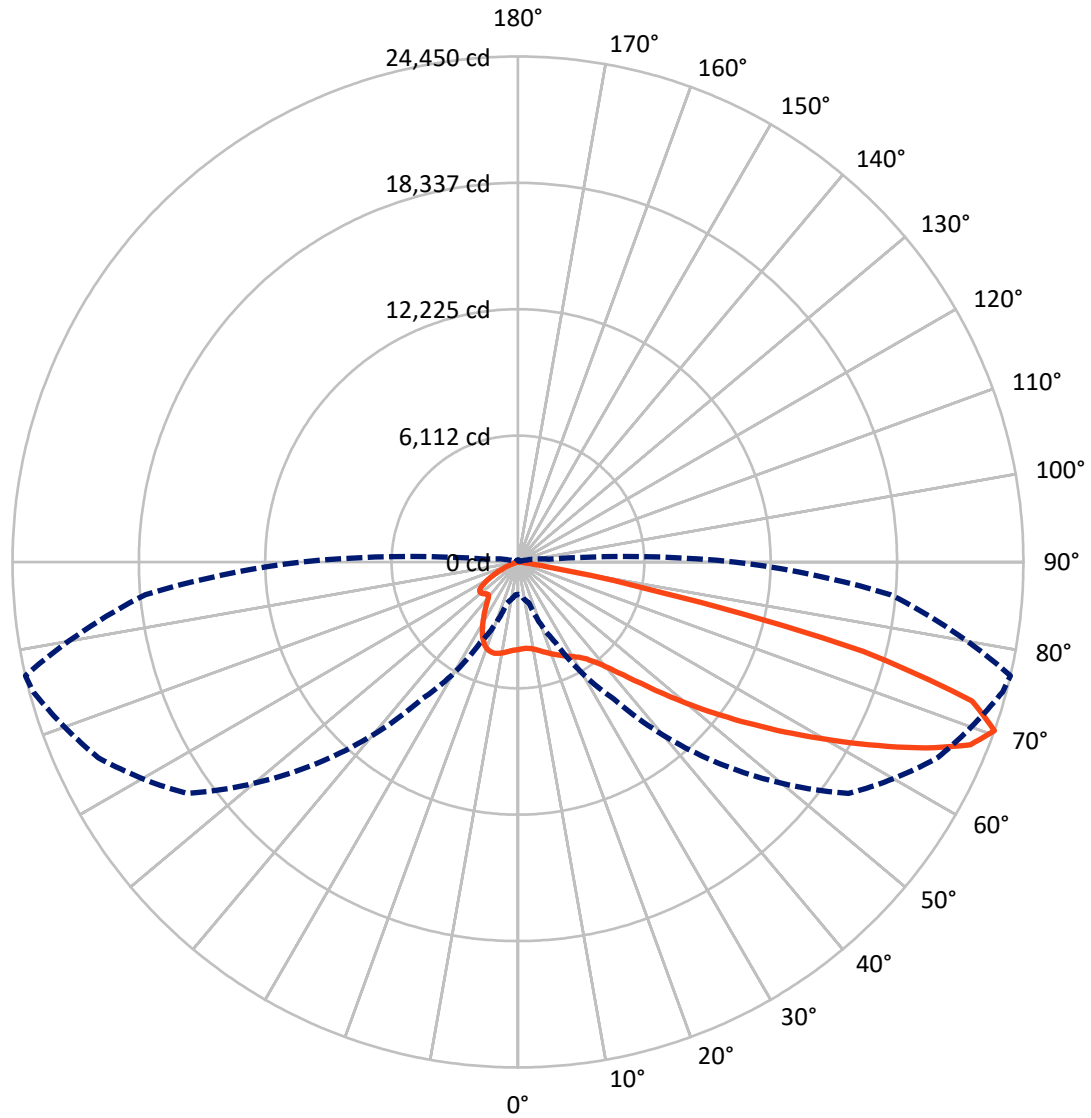
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	2860.4	0.0	2860.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	24274.6	0.0	24274.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	27135.0	0.0	27135.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.8	1.3
10°-20°	865.9	3.2
20°-30°	1339.4	4.9
30°-40°	2430.4	9.0
40°-50°	4587.6	16.9
50°-60°	6628.7	24.4
60°-70°	7056.1	26.0
70°-80°	3739.3	13.8
80°-90°	122.8	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°	27135.0	100.0
0°-180°	27135.0	100.0

Coefficient of Utilization



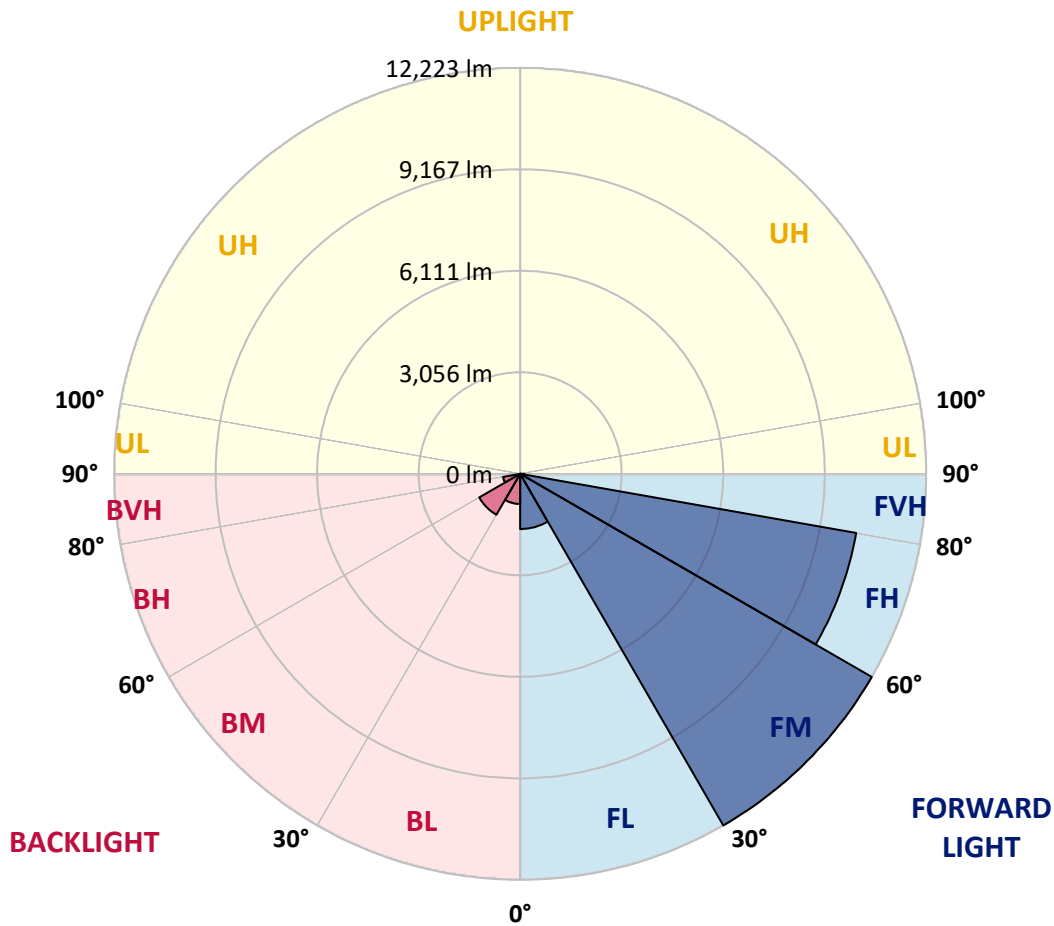
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1661.3	6.1			
FM (30°-60°)	12222.8	45.0			
FH (60°-80°)	10271.0	37.9			G4/12000
FVH (80°-90°)	119.5	0.4			G2/225
BL (0°-30°)	908.8	3.3	B2/1000		
BM (30°-60°)	1423.9	5.2	B2/2500		
BH (60°-80°)	524.4	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°	4232.6	4232.6	4232.6	4232.6	4232.6	4232.6	4232.6	4232.6	4232.6	4232.6
2.5°	3973.8	4009.8	4004.7	4028.7	4037.2	4071.5	4105.8	4152.0	4203.4	4201.7
5°	3749.3	3785.3	3793.9	3826.4	3867.6	3920.7	3991.0	4083.5	4179.4	4194.9
7.5°	3483.7	3521.4	3543.7	3608.8	3684.2	3793.9	3908.7	4044.1	4203.4	4225.7
10°	3218.1	3252.4	3281.5	3374.1	3494.0	3656.8	3843.6	4038.9	4253.1	4285.7
12.5°	3053.6	3086.2	3118.7	3199.3	3348.4	3547.1	3800.7	4062.9	4335.4	4381.7
15°	2995.4	3024.5	3050.2	3122.2	3261.0	3487.2	3792.2	4112.6	4439.9	4501.6
17.5°	3003.9	3019.3	3036.5	3091.3	3226.7	3459.7	3807.6	4198.3	4563.3	4618.1
20°	3053.6	3062.2	3063.9	3101.6	3221.6	3456.3	3838.4	4280.6	4679.8	4753.5
22.5°	3117.0	3120.4	3117.0	3142.7	3254.1	3482.0	3879.6	4379.9	4810.1	4878.6
25°	3413.5	3348.4	3266.1	3216.4	3308.9	3531.7	3941.3	4513.6	4952.3	5019.1
27.5°	4333.7	4146.9	3852.2	3521.4	3422.0	3603.7	4026.9	4649.0	5096.2	5156.2
30°	5827.9	5582.9	5082.5	4337.1	3785.3	3754.5	4138.3	4784.3	5248.7	5313.8
32.5°	7325.6	7265.6	6688.1	5656.6	4602.7	4090.3	4323.4	4967.7	5450.9	5502.3
35°	8840.4	8718.8	8245.8	7226.2	5862.2	4774.1	4631.8	5207.6	5716.5	5774.8
37.5°	10000.5	9926.8	9633.8	8794.1	7356.4	5829.6	5159.6	5579.5	6102.1	6167.2
40°	11025.2	10991.0	10891.6	10338.1	9027.2	7210.8	5980.4	6155.2	6636.7	6713.8
42.5°	11830.6	11911.2	11967.7	11813.5	10749.4	8787.3	7084.0	6964.0	7382.2	7461.0
45°	12654.9	12682.3	12910.2	13133.0	12459.5	10435.8	8328.1	7911.6	8309.2	8406.9
47.5°	13184.4	13294.0	13695.0	14087.4	13897.2	12070.5	9664.7	9030.6	9383.6	9567.0
50°	13223.8	13431.1	13982.9	14666.6	14944.2	13626.5	11117.8	10305.5	10680.8	10883.0
52.5°	12567.5	12889.6	13744.7	14745.5	15509.7	14944.2	12620.6	11580.4	12062.0	12325.9
55°	9635.5	10057.1	12848.5	14317.1	15532.0	15943.3	14084.0	12908.5	13600.8	13898.9
57.5°	8394.9	8607.4	10101.6	13573.4	15119.0	16345.9	15406.9	14173.1	15275.0	15645.1
60°	6984.6	7263.9	8472.0	12356.7	14558.7	16385.4	16575.6	15804.5	17089.6	17506.0
62.5°	4746.6	5050.0	6251.2	10266.1	13792.7	16366.5	17533.5	17483.8	19106.5	19553.8
65°	2940.5	3130.7	3922.4	8382.9	12721.7	16387.1	18535.9	19522.9	21234.8	21688.9
67.5°	2323.6	2411.0	2824.0	6436.2	10876.2	15924.4	19536.7	21440.5	23238.0	23597.9
70°	1561.1	1614.2	2054.6	4314.8	8091.6	13789.3	19517.8	22403.5	24269.6	24449.5
72.5°	822.5	863.6	1201.2	1998.0	4887.2	9801.7	16452.2	21252.0	23243.1	22972.4
75°	411.3	479.8	808.8	1014.4	2087.2	5466.4	10216.4	16755.5	18294.3	17245.6
77.5°	311.9	377.0	668.3	668.3	726.6	1840.4	4326.8	9138.6	8429.2	7018.9
80°	198.8	257.0	584.3	505.5	303.3	467.8	1127.5	2560.1	1790.7	1362.3
82.5°	116.5	167.9	486.7	334.2	169.6	173.1	318.7	544.9	464.4	361.6
85°	46.3	109.7	334.2	131.9	66.8	42.8	96.0	116.5	96.0	72.0
87.5°	0.0	25.7	58.3	0.0	5.1	3.4	6.9	8.6	8.6	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°
4232.6	0°	4232.6	4232.6	4232.6	4232.6	4232.6	4232.6	4232.6	4232.6	4232.6	4232.6
4236.0	2.5°	4251.4	4254.8	4265.1	4266.8	4242.9	4212.0	4200.0	4194.9	4174.3	4172.6
4263.4	5°	4302.8	4318.2	4302.8	4258.3	4152.0	4002.9	3889.9	3797.3	3713.4	3687.6
4357.7	7.5°	4405.6	4421.1	4374.8	4200.0	3932.7	3636.2	3368.9	3180.4	3010.8	2947.4
4472.5	10°	4553.0	4573.6	4427.9	4074.9	3602.0	3125.6	2673.2	2354.5	2106.0	2004.9
4628.4	12.5°	4738.1	4746.6	4457.1	3884.7	3171.9	2491.6	1850.7	1509.7	1288.6	1206.4
4816.9	15°	4942.0	4930.0	4460.5	3626.0	2585.8	1761.6	1208.1	992.2	903.1	875.6
5005.4	17.5°	5156.2	5106.5	4391.9	3252.4	1943.2	1204.7	896.2	844.8	829.4	822.5
5192.2	20°	5367.0	5255.6	4266.8	2764.0	1394.9	899.6	814.0	798.5	790.0	786.5
5380.7	22.5°	5558.9	5368.7	4052.6	2196.8	1012.7	795.1	769.4	755.7	740.3	733.4
5564.0	25°	5745.7	5433.8	3751.1	1667.3	810.5	743.7	723.1	697.4	676.9	668.3
5761.1	27.5°	5927.3	5474.9	3374.1	1233.8	723.1	695.7	658.0	622.0	606.6	603.2
5971.9	30°	6120.9	5488.6	2945.7	920.2	670.0	635.7	580.9	539.8	531.2	532.9
6256.3	32.5°	6357.4	5509.2	2513.8	754.0	625.5	563.8	498.7	455.8	449.0	455.8
6671.0	35°	6640.2	5550.3	2097.4	694.0	586.0	490.1	419.8	383.8	377.0	382.1
7202.2	37.5°	7024.0	5617.2	1708.5	682.0	553.5	428.4	353.0	323.9	323.9	325.6
7853.4	40°	7534.7	5795.4	1360.6	673.4	536.4	382.1	298.2	286.2	291.3	294.7
8682.8	42.5°	8156.7	6174.1	1125.8	663.2	517.5	361.6	270.7	265.6	274.2	277.6
9676.6	45°	8854.1	6653.9	1043.6	646.0	500.4	375.3	258.8	251.9	262.2	263.9
10790.5	47.5°	9575.5	7123.4	1033.3	627.2	483.2	395.8	255.3	239.9	251.9	253.6
11979.7	50°	10305.5	7430.1	1043.6	598.0	455.8	395.8	257.0	227.9	238.2	243.3
13213.5	52.5°	11040.7	7570.6	1036.7	534.6	407.8	371.8	257.0	217.6	227.9	231.3
14546.7	55°	11753.5	7543.2	932.2	440.4	346.1	329.0	250.2	209.1	215.9	217.6
15806.2	57.5°	12317.3	7161.1	738.6	342.7	281.0	274.2	227.9	198.8	203.9	202.2
16961.1	60°	12612.0	6321.4	527.8	263.9	221.1	215.9	200.5	185.1	188.5	179.9
17939.6	62.5°	12615.5	5211.0	353.0	209.1	176.5	171.4	171.4	166.2	162.8	145.7
18697.0	65°	12346.4	3979.0	234.8	166.2	142.2	133.7	143.9	142.2	130.2	106.2
18928.3	67.5°	11736.4	2608.1	178.2	130.2	109.7	104.5	114.8	120.0	111.4	89.1
18085.2	70°	10482.0	1518.2	147.4	101.1	82.3	77.1	92.5	102.8	92.5	72.0
15458.3	72.5°	8706.8	819.1	120.0	75.4	56.5	51.4	73.7	84.0	73.7	53.1
9918.3	75°	5649.7	438.7	92.5	49.7	29.1	32.6	54.8	61.7	51.4	34.3
2911.4	77.5°	1896.9	193.6	58.3	24.0	13.7	13.7	32.6	37.7	24.0	12.0
529.5	80°	423.3	80.5	24.0	10.3	5.1	5.1	6.9	6.9	3.4	0.0
162.8	82.5°	138.8	32.6	10.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0
41.1	85°	53.1	12.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.7	87.5°	20.6	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>
4232.6
4176.0
3672.2
2921.7
1962.1
1180.7
875.6
820.8
783.1
731.7
664.9
599.8
532.9
454.1
380.4
323.9
294.7
277.6
265.6
255.3
245.0
231.3
217.6
202.2
178.2
140.5
102.8
87.4
68.5
51.4
30.8
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