

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: P951420

Luminaire Tested: **GALN-SB5C-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951420
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-SB5C-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 615mA 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: 27387 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

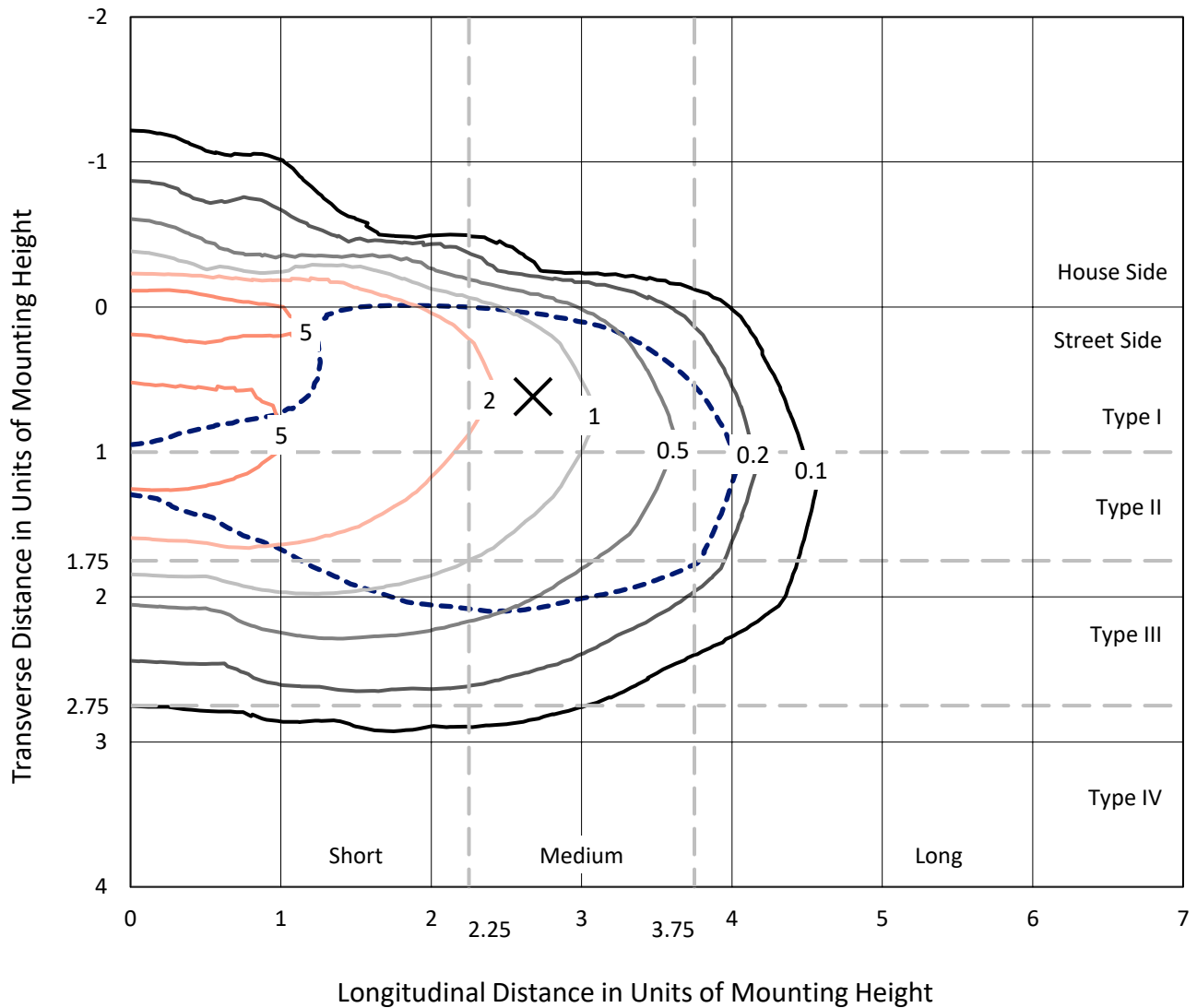
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

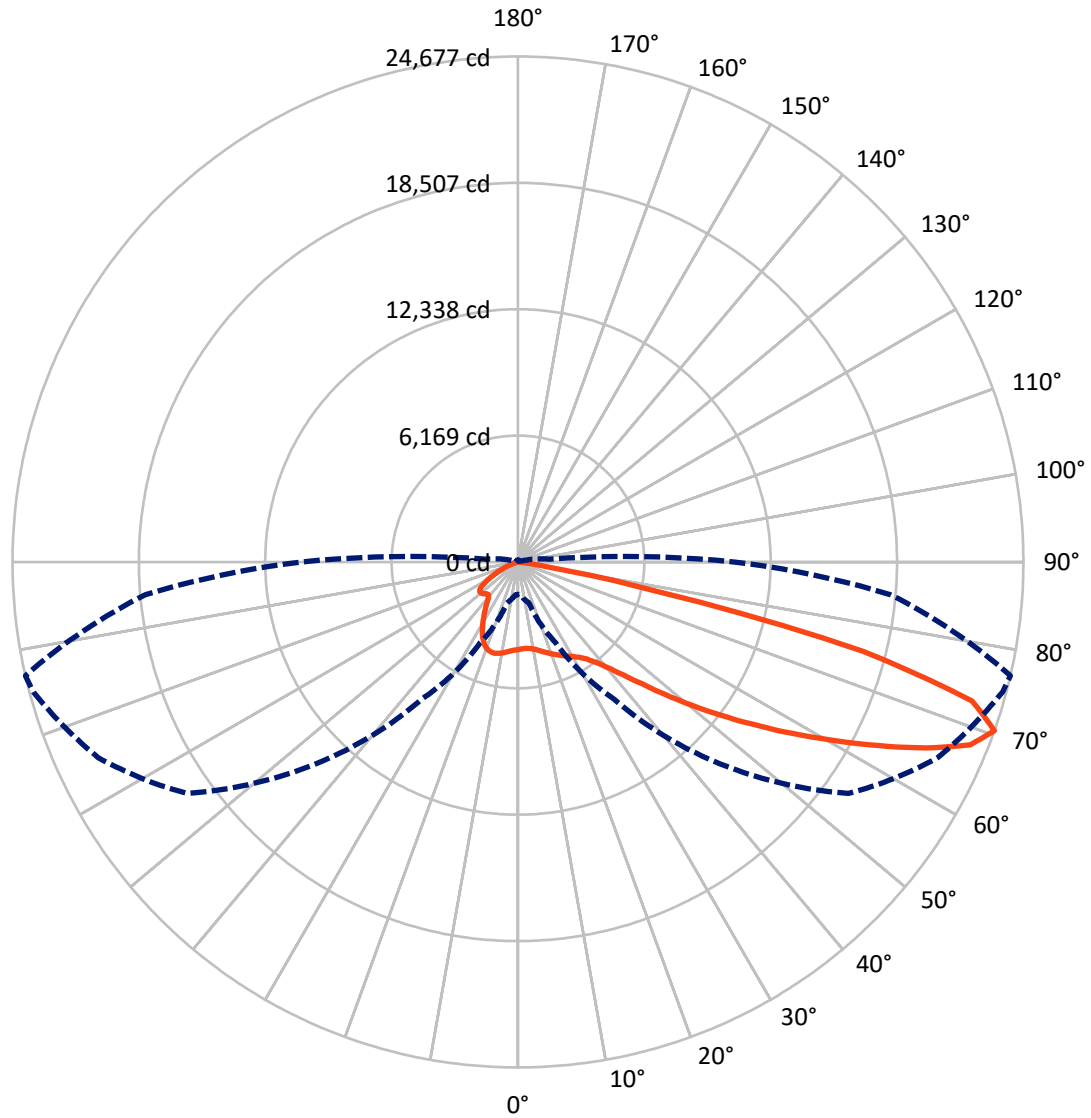
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	2887.0	0.0	2887.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	24500.0	0.0	24500.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	27387.0	0.0	27387.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.2	1.3
10°-20°	874.0	3.2
20°-30°	1351.8	4.9
30°-40°	2452.9	9.0
40°-50°	4630.2	16.9
50°-60°	6690.3	24.4
60°-70°	7121.6	26.0
70°-80°	3774.0	13.8
80°-90°	123.9	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°	27387.0	100.0
0°-180°	27387.0	100.0

Coefficient of Utilization



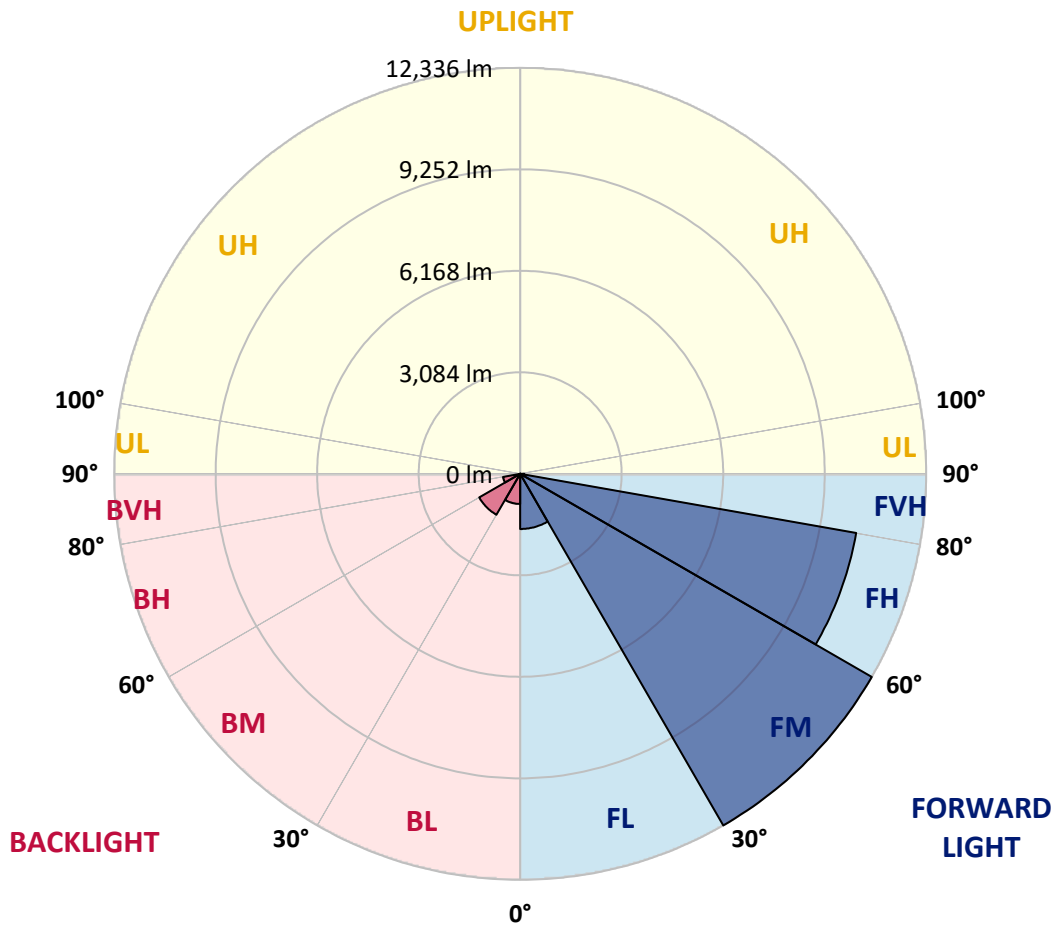
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1676.7	6.1			
FM (30°-60°)	12336.3	45.0			
FH (60°-80°)	10366.4	37.9			G4/12000
FVH (80°-90°)	120.6	0.4			G2/225
BL (0°-30°)	917.2	3.3	B2/1000		
BM (30°-60°)	1437.1	5.2	B2/2500		
BH (60°-80°)	529.3	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°	4271.9	4271.9	4271.9	4271.9	4271.9	4271.9	4271.9	4271.9	4271.9	4271.9
2.5°	4010.7	4047.0	4041.9	4066.1	4074.7	4109.3	4143.9	4190.6	4242.5	4240.7
5°	3784.2	3820.5	3829.1	3862.0	3903.5	3957.1	4028.0	4121.4	4218.3	4233.8
7.5°	3516.1	3554.1	3576.6	3642.3	3718.4	3829.1	3945.0	4081.6	4242.5	4265.0
10°	3248.0	3282.6	3312.0	3405.4	3526.5	3690.8	3879.3	4076.4	4292.6	4325.5
12.5°	3082.0	3114.8	3147.7	3229.0	3379.5	3580.1	3836.0	4100.7	4375.6	4422.3
15°	3023.2	3052.6	3078.5	3151.2	3291.2	3519.5	3827.4	4150.8	4481.1	4543.4
17.5°	3031.8	3047.4	3064.7	3120.0	3256.7	3491.9	3843.0	4237.3	4605.7	4661.0
20°	3082.0	3090.6	3092.4	3130.4	3251.5	3488.4	3874.1	4320.3	4723.3	4797.6
22.5°	3146.0	3149.4	3146.0	3171.9	3284.3	3514.4	3915.6	4420.6	4854.7	4923.9
25°	3445.2	3379.5	3296.4	3246.3	3339.7	3564.5	3977.9	4555.5	4998.3	5065.7
27.5°	4373.9	4185.4	3887.9	3554.1	3453.8	3637.1	4064.3	4692.1	5143.5	5204.1
30°	5882.0	5634.7	5129.7	4377.4	3820.5	3789.3	4176.8	4828.8	5297.5	5363.2
32.5°	7393.6	7333.1	6750.3	5709.1	4645.5	4128.3	4363.5	5013.8	5501.6	5553.4
35°	8922.5	8799.7	8322.4	7293.3	5916.6	4818.4	4674.9	5256.0	5769.6	5828.4
37.5°	10093.4	10019.0	9723.3	8875.8	7424.8	5883.8	5207.5	5631.3	6158.8	6224.5
40°	11127.6	11093.0	10992.7	10434.1	9111.0	7277.8	6036.0	6212.4	6698.4	6776.2
42.5°	11940.5	12021.8	12078.9	11923.2	10849.2	8868.9	7149.8	7028.7	7450.7	7530.3
45°	12772.4	12800.1	13030.1	13254.9	12575.2	10532.7	8405.4	7985.1	8386.4	8485.0
47.5°	13306.8	13417.5	13822.2	14218.3	14026.3	12182.6	9754.4	9114.5	9470.8	9655.8
50°	13346.6	13555.9	14112.8	14802.8	15083.0	13753.0	11221.0	10401.2	10780.0	10984.1
52.5°	12684.2	13009.3	13872.4	14882.4	15653.7	15083.0	12737.8	11688.0	12174.0	12440.3
55°	9725.0	10150.5	12967.8	14450.0	15676.2	16091.3	14214.8	13028.4	13727.1	14028.0
57.5°	8472.8	8687.3	10195.4	13699.4	15259.4	16497.7	15550.0	14304.7	15416.8	15790.4
60°	7049.5	7331.4	8550.7	12471.5	14693.9	16537.5	16729.5	15951.2	17248.4	17668.6
62.5°	4790.7	5096.9	6309.2	10361.5	13920.8	16518.5	17696.3	17646.1	19284.0	19735.4
65°	2967.8	3159.8	3958.8	8460.7	12839.8	16539.3	18708.1	19704.3	21432.0	21890.3
67.5°	2345.2	2433.4	2850.2	6496.0	10977.2	16072.3	19718.1	21639.6	23453.8	23817.0
70°	1575.6	1629.2	2073.7	4354.9	8166.7	13917.3	19699.1	22611.5	24495.0	24676.6
72.5°	830.2	871.7	1212.4	2016.6	4932.5	9892.8	16605.0	21449.3	23459.0	23185.7
75°	415.1	484.3	816.3	1023.9	2106.5	5517.1	10311.3	16911.1	18464.2	17405.7
77.5°	314.8	380.5	674.5	674.5	733.3	1857.5	4367.0	9223.5	8507.4	7084.1
80°	200.6	259.4	589.8	510.2	306.1	472.2	1138.0	2583.9	1807.3	1375.0
82.5°	117.6	169.5	491.2	337.3	171.2	174.7	321.7	550.0	468.7	364.9
85°	46.7	110.7	337.3	133.2	67.5	43.2	96.9	117.6	96.9	72.6
87.5°	0.0	25.9	58.8	0.0	5.2	3.5	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°
4271.9	0°	4271.9	4271.9	4271.9	4271.9	4271.9	4271.9	4271.9	4271.9	4271.9	4271.9
4275.3	2.5°	4290.9	4294.4	4304.7	4306.5	4282.3	4251.1	4239.0	4233.8	4213.1	4211.3
4303.0	5°	4342.8	4358.4	4342.8	4297.8	4190.6	4040.1	3926.0	3832.6	3747.8	3721.9
4398.1	7.5°	4446.6	4462.1	4415.4	4239.0	3969.2	3670.0	3400.2	3210.0	3038.7	2974.7
4514.0	10°	4595.3	4616.0	4469.0	4112.8	3635.4	3154.6	2698.0	2376.3	2125.6	2023.5
4671.4	12.5°	4782.1	4790.7	4498.4	3920.8	3201.3	2514.7	1867.9	1523.7	1300.6	1217.6
4861.6	15°	4987.9	4975.8	4501.9	3659.6	2609.8	1777.9	1219.3	1001.4	911.4	883.8
5051.9	17.5°	5204.1	5153.9	4432.7	3282.6	1961.3	1215.8	904.5	852.6	837.1	830.2
5240.4	20°	5416.8	5304.4	4306.5	2789.7	1407.8	908.0	821.5	805.9	797.3	793.8
5430.6	22.5°	5610.5	5418.5	4090.3	2217.2	1022.1	802.5	776.5	762.7	747.1	740.2
5615.7	25°	5799.0	5484.3	3785.9	1682.8	818.1	750.6	729.9	703.9	683.2	674.5
5814.6	27.5°	5982.4	5525.8	3405.4	1245.2	729.9	702.2	664.1	627.8	612.2	608.8
6027.3	30°	6177.8	5539.6	2973.0	928.7	676.2	641.6	586.3	544.8	536.1	537.9
6314.4	32.5°	6416.5	5560.4	2537.2	761.0	631.3	569.0	503.3	460.0	453.1	460.0
6733.0	35°	6701.8	5601.9	2116.9	700.4	591.5	494.6	423.7	387.4	380.5	385.7
7269.1	37.5°	7089.2	5669.3	1724.3	688.3	558.6	432.4	356.3	326.9	326.9	328.6
7926.3	40°	7604.6	5849.2	1373.2	679.7	541.3	385.7	300.9	288.8	294.0	297.5
8763.4	42.5°	8232.4	6231.4	1136.3	669.3	522.3	364.9	273.3	268.1	276.7	280.2
9766.5	45°	8936.4	6715.7	1053.3	652.0	505.0	378.8	261.2	254.2	264.6	266.3
10890.7	47.5°	9664.5	7189.6	1042.9	633.0	487.7	399.5	257.7	242.1	254.2	256.0
12091.0	50°	10401.2	7499.1	1053.3	603.6	460.0	399.5	259.4	230.0	240.4	245.6
13336.2	52.5°	11143.2	7641.0	1046.4	539.6	411.6	375.3	259.4	219.6	230.0	233.5
14681.8	55°	11862.7	7613.3	940.9	444.5	349.4	332.1	252.5	211.0	217.9	219.6
15953.0	57.5°	12431.7	7227.6	745.4	345.9	283.6	276.7	230.0	200.6	205.8	204.1
17118.6	60°	12729.2	6380.1	532.7	266.3	223.1	217.9	202.4	186.8	190.2	181.6
18106.2	62.5°	12732.6	5259.4	356.3	211.0	178.1	173.0	173.0	167.8	164.3	147.0
18870.6	65°	12461.1	4015.9	236.9	167.8	143.5	134.9	145.3	143.5	131.4	107.2
19104.1	67.5°	11845.4	2632.3	179.9	131.4	110.7	105.5	115.9	121.1	112.4	89.9
18253.2	70°	10579.4	1532.3	148.7	102.0	83.0	77.8	93.4	103.8	93.4	72.6
15601.9	72.5°	8787.6	826.7	121.1	76.1	57.1	51.9	74.4	84.7	74.4	53.6
10010.4	75°	5702.2	442.8	93.4	50.2	29.4	32.9	55.3	62.3	51.9	34.6
2938.4	77.5°	1914.6	195.4	58.8	24.2	13.8	13.8	32.9	38.0	24.2	12.1
534.4	80°	427.2	81.3	24.2	10.4	5.2	5.2	6.9	6.9	3.5	0.0
164.3	82.5°	140.1	32.9	10.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0
41.5	85°	53.6	12.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.8	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>
4271.9
4214.8
3706.3
2948.8
1980.3
1191.6
883.8
828.4
790.4
738.5
671.0
605.3
537.9
458.3
384.0
326.9
297.5
280.2
268.1
257.7
247.3
233.5
219.6
204.1
179.9
141.8
103.8
88.2
69.2
51.9
31.1
10.4
0.0
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