

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: P952848

Luminaire Tested: **GALN-SB6C-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952848
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-SB6C-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 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: 32878 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

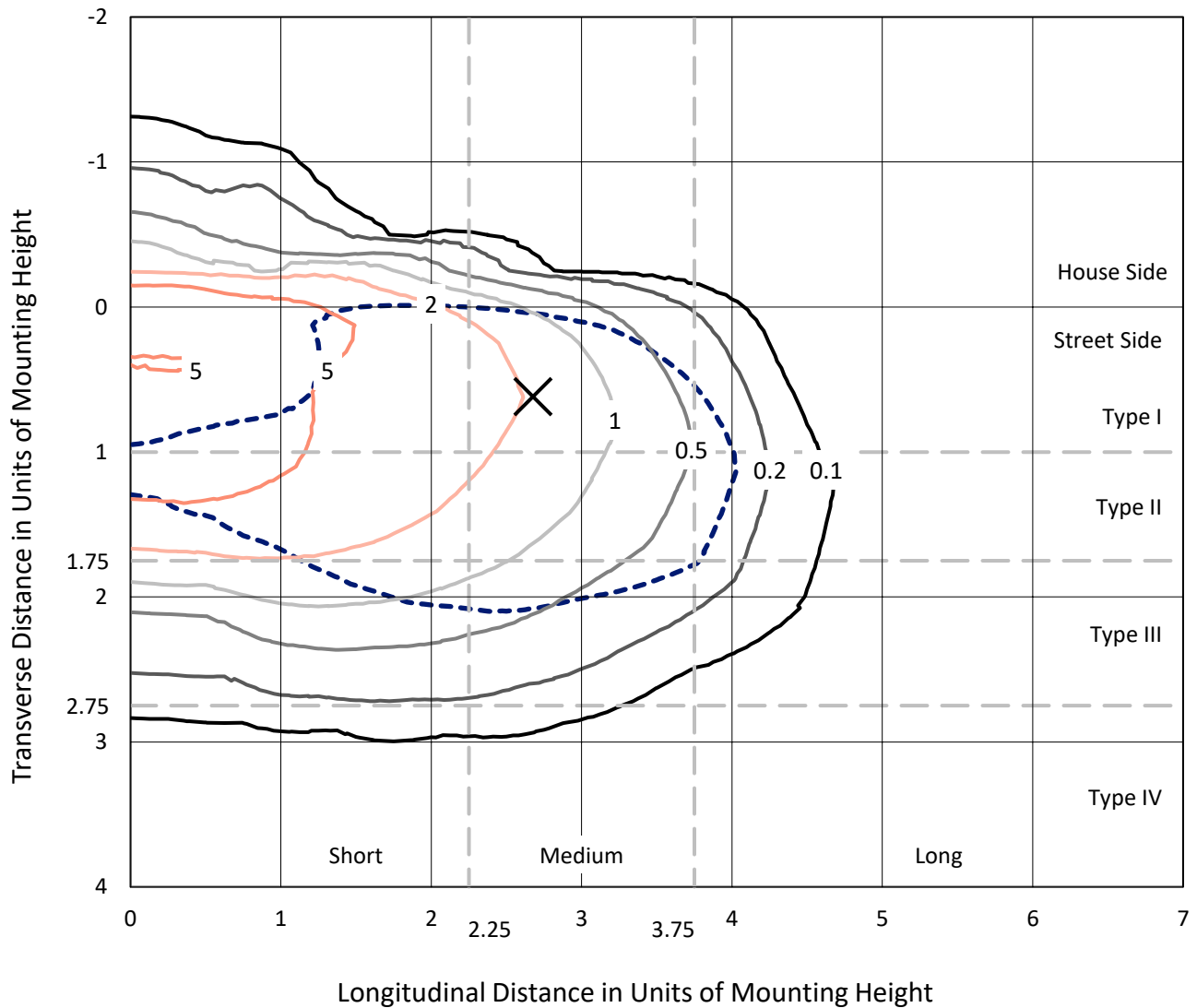
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

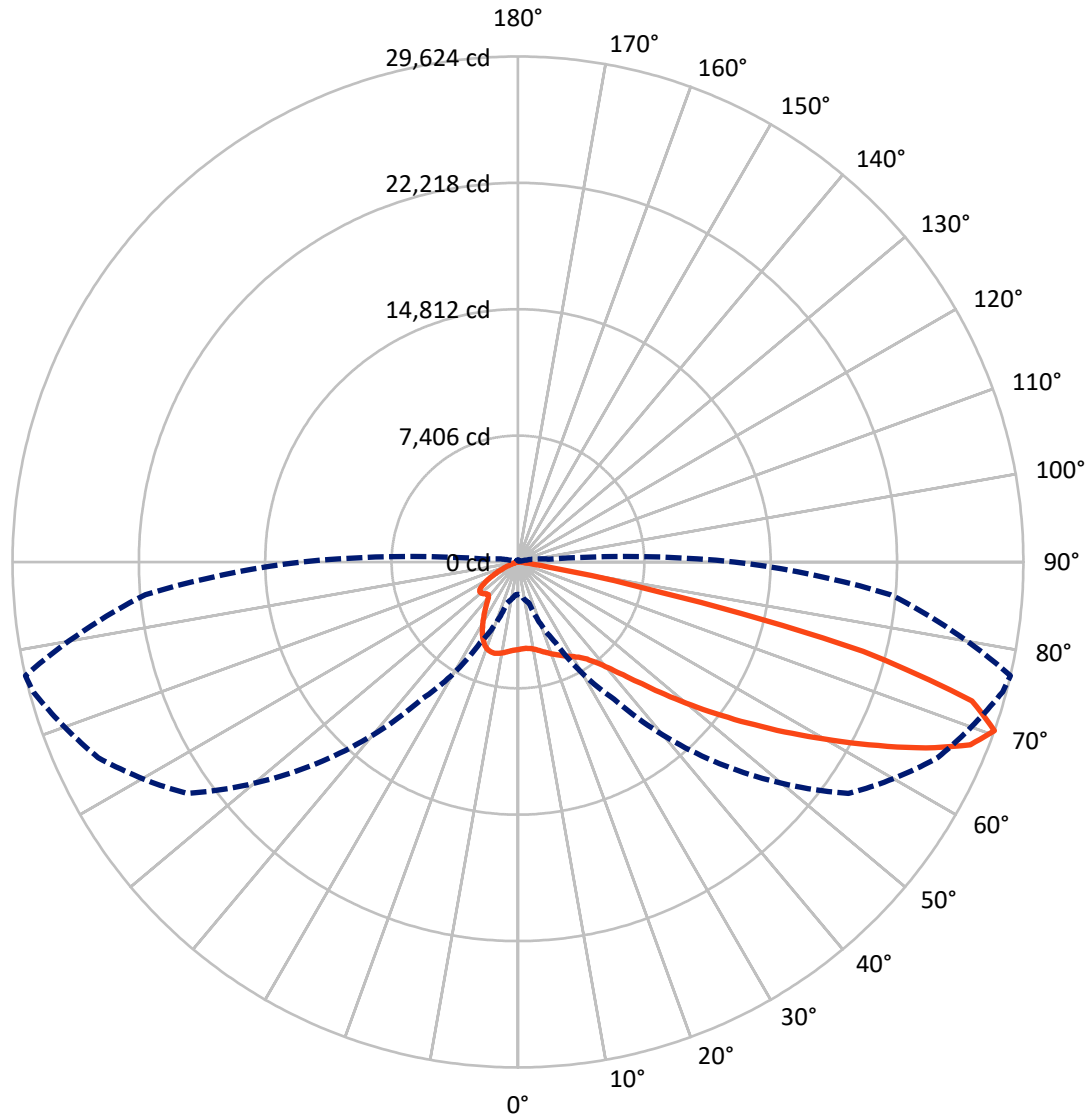
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	3465.8	0.0	3465.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	29412.2	0.0	29412.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	32878.0	0.0	32878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.0	1.3
10°-20°	1049.2	3.2
20°-30°	1622.9	4.9
30°-40°	2944.8	9.0
40°-50°	5558.6	16.9
50°-60°	8031.7	24.4
60°-70°	8549.5	26.0
70°-80°	4530.6	13.8
80°-90°	148.8	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°	32878.0	100.0
0°-180°	32878.0	100.0

Coefficient of Utilization



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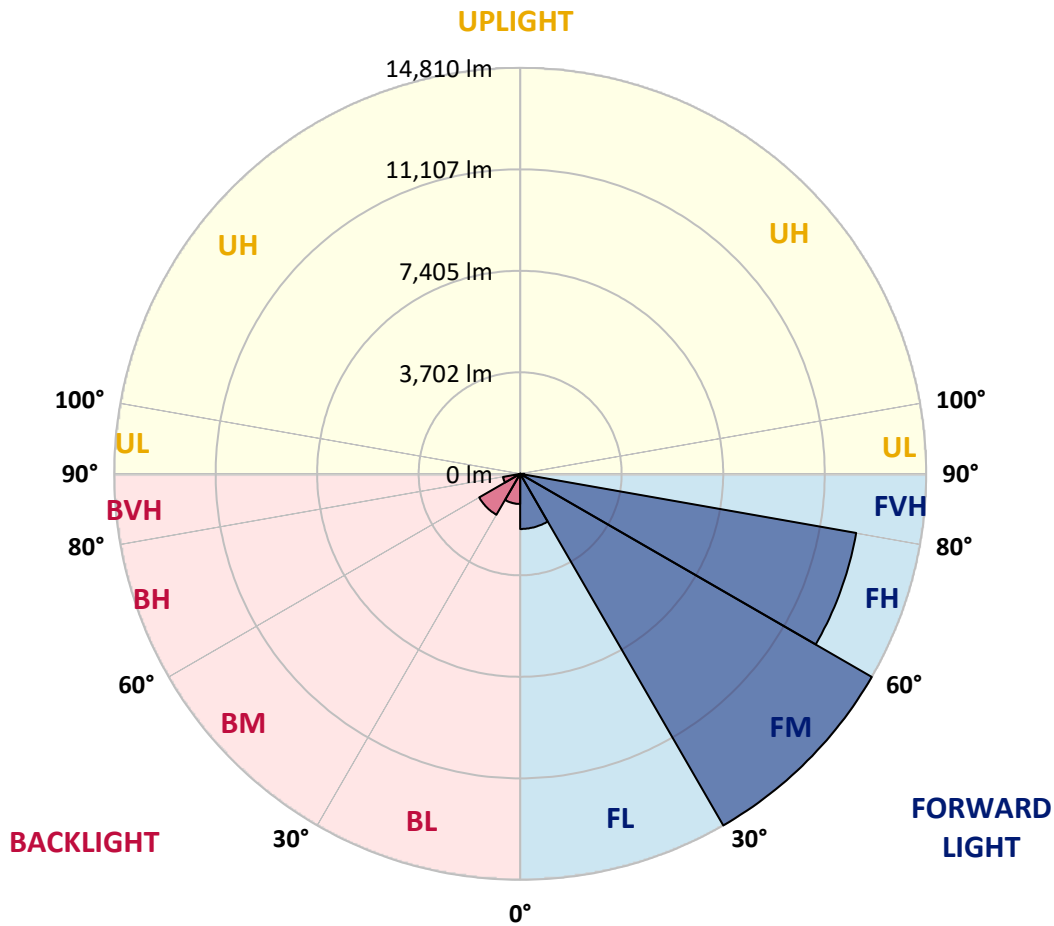
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2012.9	6.1			
FM (30°-60°)	14809.7	45.0			
FH (60°-80°)	12444.8	37.9			G5
FVH (80°-90°)	144.8	0.4			G2/225
BL (0°-30°)	1101.1	3.3	B3/2500		
BM (30°-60°)	1725.3	5.2	B2/2500		
BH (60°-80°)	635.4	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5128.4	5128.4	5128.4	5128.4	5128.4	5128.4	5128.4	5128.4	5128.4	5128.4
2.5°	4814.9	4858.5	4852.2	4881.3	4891.7	4933.2	4974.7	5030.8	5093.1	5091.0
5°	4542.9	4586.5	4596.9	4636.3	4686.1	4750.5	4835.6	4947.7	5064.0	5082.7
7.5°	4221.0	4266.7	4293.7	4372.6	4464.0	4596.9	4736.0	4900.0	5093.1	5120.1
10°	3899.2	3940.8	3976.0	4088.2	4233.5	4430.7	4657.1	4893.8	5153.3	5192.7
12.5°	3699.9	3739.4	3778.8	3876.4	4057.0	4297.9	4605.2	4922.8	5253.0	5309.0
15°	3629.3	3664.6	3695.8	3783.0	3951.1	4225.2	4594.8	4983.0	5379.6	5454.3
17.5°	3639.7	3658.4	3679.1	3745.6	3909.6	4192.0	4613.5	5086.8	5529.1	5595.5
20°	3699.9	3710.3	3712.4	3758.0	3903.4	4187.8	4650.8	5186.5	5670.3	5759.6
22.5°	3776.7	3780.9	3776.7	3807.9	3942.8	4219.0	4700.7	5306.9	5828.1	5911.1
25°	4135.9	4057.0	3957.4	3897.1	4009.3	4279.2	4775.4	5468.9	6000.4	6081.4
27.5°	5250.9	5024.6	4667.4	4266.7	4146.3	4366.4	4879.2	5632.9	6174.8	6247.5
30°	7061.4	6764.5	6158.2	5255.0	4586.5	4549.1	5014.2	5796.9	6359.6	6438.5
32.5°	8876.0	8803.4	8103.7	6853.8	5576.8	4956.0	5238.4	6019.1	6604.6	6666.9
35°	10711.5	10564.0	9991.0	8755.6	7102.9	5784.5	5612.1	6309.8	6926.4	6997.0
37.5°	12117.1	12027.8	11672.8	10655.4	8913.4	7063.5	6251.6	6760.3	7393.6	7472.5
40°	13358.7	13317.2	13196.7	12526.1	10937.8	8736.9	7246.2	7457.9	8041.4	8134.8
42.5°	14334.5	14432.1	14500.6	14313.8	13024.4	10647.1	8583.3	8437.9	8944.5	9040.1
45°	15333.2	15366.4	15642.6	15912.5	15096.5	12644.5	10090.6	9586.1	10067.8	10186.2
47.5°	15974.8	16107.7	16593.5	17069.0	16838.5	14625.2	11710.1	10941.9	11369.6	11591.8
50°	16022.5	16273.8	16942.3	17770.8	18107.1	16510.5	13470.8	12486.7	12941.4	13186.4
52.5°	15227.3	15617.7	16653.7	17866.3	18792.3	18107.1	15291.7	14031.4	14614.8	14934.6
55°	11674.8	12185.6	15567.8	17347.2	18819.3	19317.6	17064.8	15640.5	16479.3	16840.6
57.5°	10171.6	10429.1	12239.6	16446.1	18318.9	19805.5	18667.7	17172.8	18507.8	18956.3
60°	8462.9	8801.3	10265.1	14971.9	17639.9	19853.2	20083.7	19149.4	20706.6	21211.1
62.5°	5751.3	6118.8	7574.2	12438.9	16711.9	19830.4	21244.3	21184.1	23150.4	23692.3
65°	3562.9	3793.3	4752.6	10157.1	15414.2	19855.3	22459.0	23654.9	25729.1	26279.3
67.5°	2815.4	2921.3	3421.7	7798.5	13178.1	19294.7	23671.5	25978.2	28156.2	28592.2
70°	1891.5	1955.8	2489.4	5228.0	9804.1	16707.7	23648.7	27145.1	29406.1	29624.1
72.5°	996.6	1046.4	1455.5	2420.9	5921.5	11876.2	19934.2	25749.8	28162.5	27834.4
75°	498.3	581.4	980.0	1229.1	2528.9	6623.3	12378.7	20301.7	22166.2	20895.5
77.5°	377.9	456.8	809.7	809.7	880.3	2229.9	5242.6	11072.7	10213.1	8504.4
80°	240.8	311.4	708.0	612.5	367.5	566.8	1366.2	3101.9	2169.7	1650.6
82.5°	141.2	203.5	589.7	404.9	205.6	209.7	386.2	660.3	562.7	438.1
85°	56.1	132.9	404.9	159.9	81.0	51.9	116.3	141.2	116.3	87.2
87.5°	0.0	31.1	70.6	0.0	6.2	4.2	8.3	10.4	10.4	8.3
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°
5128.4	0°	5128.4	5128.4	5128.4	5128.4	5128.4	5128.4	5128.4	5128.4	5128.4	5128.4
5132.5	2.5°	5151.2	5155.4	5167.8	5169.9	5140.8	5103.5	5088.9	5082.7	5057.8	5055.7
5165.7	5°	5213.5	5232.2	5213.5	5159.5	5030.8	4850.2	4713.1	4601.0	4499.3	4468.1
5279.9	7.5°	5338.1	5356.8	5300.7	5088.9	4765.0	4405.8	4081.9	3853.5	3648.0	3571.2
5419.1	10°	5516.6	5541.6	5365.1	4937.4	4364.3	3787.1	3239.0	2852.8	2551.7	2429.2
5608.0	12.5°	5740.9	5751.3	5400.4	4706.9	3843.2	3018.9	2242.4	1829.2	1561.4	1461.7
5836.4	15°	5987.9	5973.4	5404.5	4393.4	3133.1	2134.4	1463.8	1202.2	1094.2	1061.0
6064.8	17.5°	6247.5	6187.3	5321.5	3940.8	2354.5	1459.6	1085.9	1023.6	1004.9	996.6
6291.1	20°	6502.9	6367.9	5169.9	3349.0	1690.1	1090.0	986.2	967.5	957.2	953.0
6519.5	22.5°	6735.4	6504.9	4910.4	2661.8	1227.1	963.4	932.2	915.6	896.9	888.6
6741.6	25°	6961.7	6583.8	4544.9	2020.2	982.1	901.1	876.2	845.0	820.1	809.7
6980.4	27.5°	7181.8	6633.7	4088.2	1494.9	876.2	843.0	797.3	753.7	735.0	730.8
7235.8	30°	7416.4	6650.3	3569.1	1115.0	811.8	770.3	703.9	654.0	643.6	645.7
7580.4	32.5°	7702.9	6675.2	3045.9	913.6	757.8	683.1	604.2	552.3	544.0	552.3
8082.9	35°	8045.5	6725.0	2541.3	840.9	710.1	593.8	508.7	465.1	456.8	463.0
8726.5	37.5°	8510.6	6806.0	2070.0	826.4	670.6	519.1	427.7	392.4	392.4	394.5
9515.5	40°	9129.3	7021.9	1648.6	816.0	649.9	463.0	361.3	346.7	353.0	357.1
10520.4	42.5°	9883.0	7480.8	1364.1	803.5	627.0	438.1	328.0	321.8	332.2	336.4
11724.7	45°	10728.1	8062.1	1264.4	782.8	606.3	454.7	313.5	305.2	317.7	319.7
13074.2	47.5°	11602.2	8631.0	1252.0	759.9	585.5	479.6	309.4	290.7	305.2	307.3
14515.2	50°	12486.7	9002.7	1264.4	724.6	552.3	479.6	311.4	276.1	288.6	294.8
16010.1	52.5°	13377.4	9172.9	1256.1	647.8	494.2	450.5	311.4	263.7	276.1	280.3
17625.4	55°	14241.1	9139.7	1129.5	533.6	419.4	398.6	303.1	253.3	261.6	263.7
19151.5	57.5°	14924.2	8676.7	894.9	415.3	340.5	332.2	276.1	240.8	247.1	245.0
20550.9	60°	15281.3	7659.3	639.5	319.7	267.8	261.6	242.9	224.2	228.4	218.0
21736.4	62.5°	15285.5	6313.9	427.7	253.3	213.9	207.6	207.6	201.4	197.2	176.5
22654.1	65°	14959.5	4821.1	284.4	201.4	172.3	161.9	174.4	172.3	157.8	128.7
22934.4	67.5°	14220.3	3160.1	215.9	157.8	132.9	126.7	139.1	145.3	135.0	108.0
21912.9	70°	12700.5	1839.6	178.6	122.5	99.7	93.4	112.1	124.6	112.1	87.2
18730.0	72.5°	10549.5	992.5	145.3	91.4	68.5	62.3	89.3	101.7	89.3	64.4
12017.4	75°	6845.4	531.5	112.1	60.2	35.3	39.4	66.4	74.7	62.3	41.5
3527.6	77.5°	2298.4	234.6	70.6	29.1	16.6	16.6	39.4	45.7	29.1	14.5
641.6	80°	512.8	97.6	29.1	12.5	6.2	6.2	8.3	8.3	4.2	0.0
197.2	82.5°	168.2	39.4	12.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0
49.8	85°	64.4	14.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.6	87.5°	24.9	2.1	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>
5128.4
5059.9
4449.4
3540.0
2377.3
1430.5
1061.0
994.5
948.9
886.6
805.6
726.7
645.7
550.2
460.9
392.4
357.1
336.4
321.8
309.4
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