

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: P954444

Luminaire Tested: **GALN-SB7C-940-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954444
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-SB7C-940-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 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: 32131 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

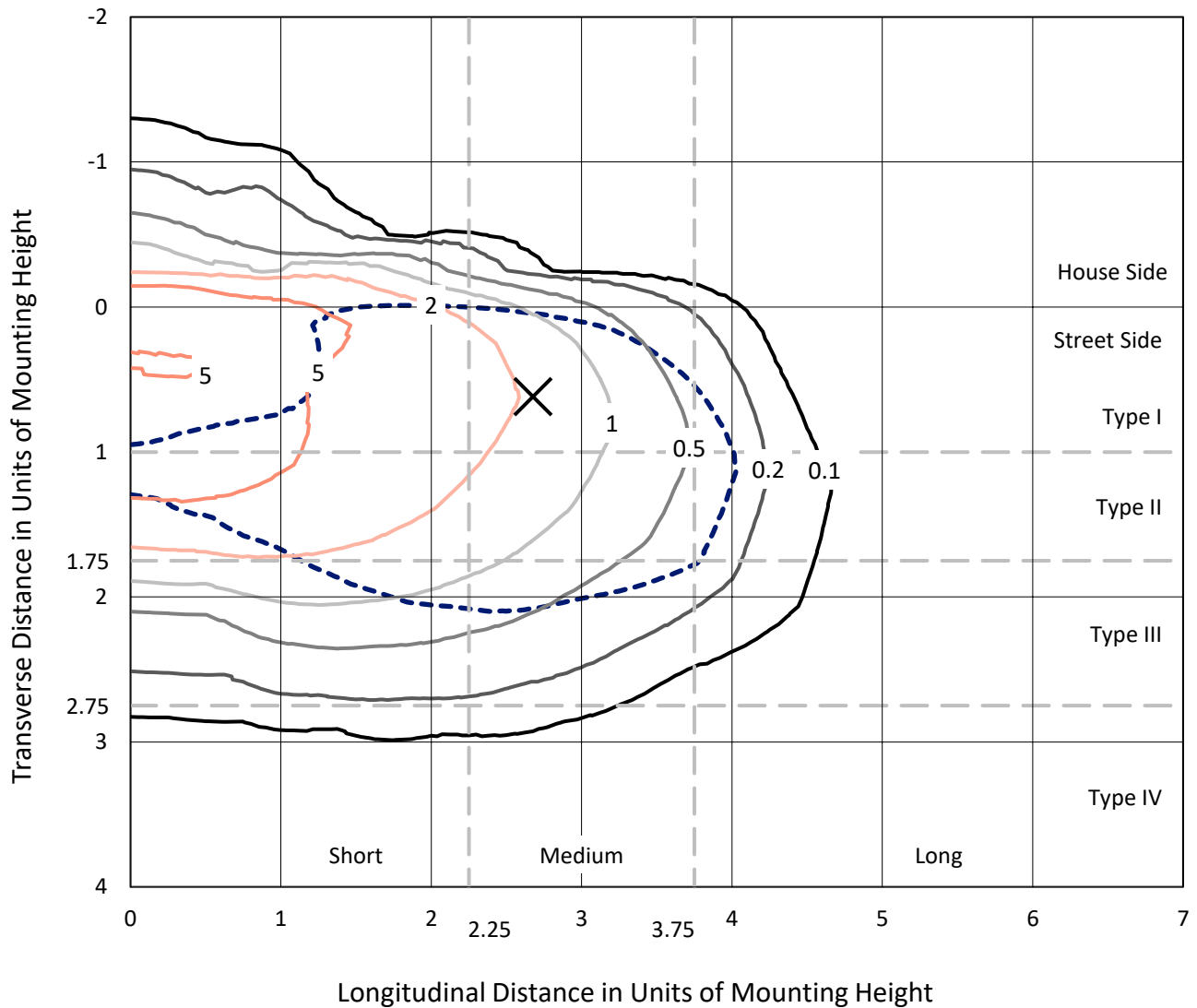
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954444
 CATALOG NUMBER: GALN-SB7C-940-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

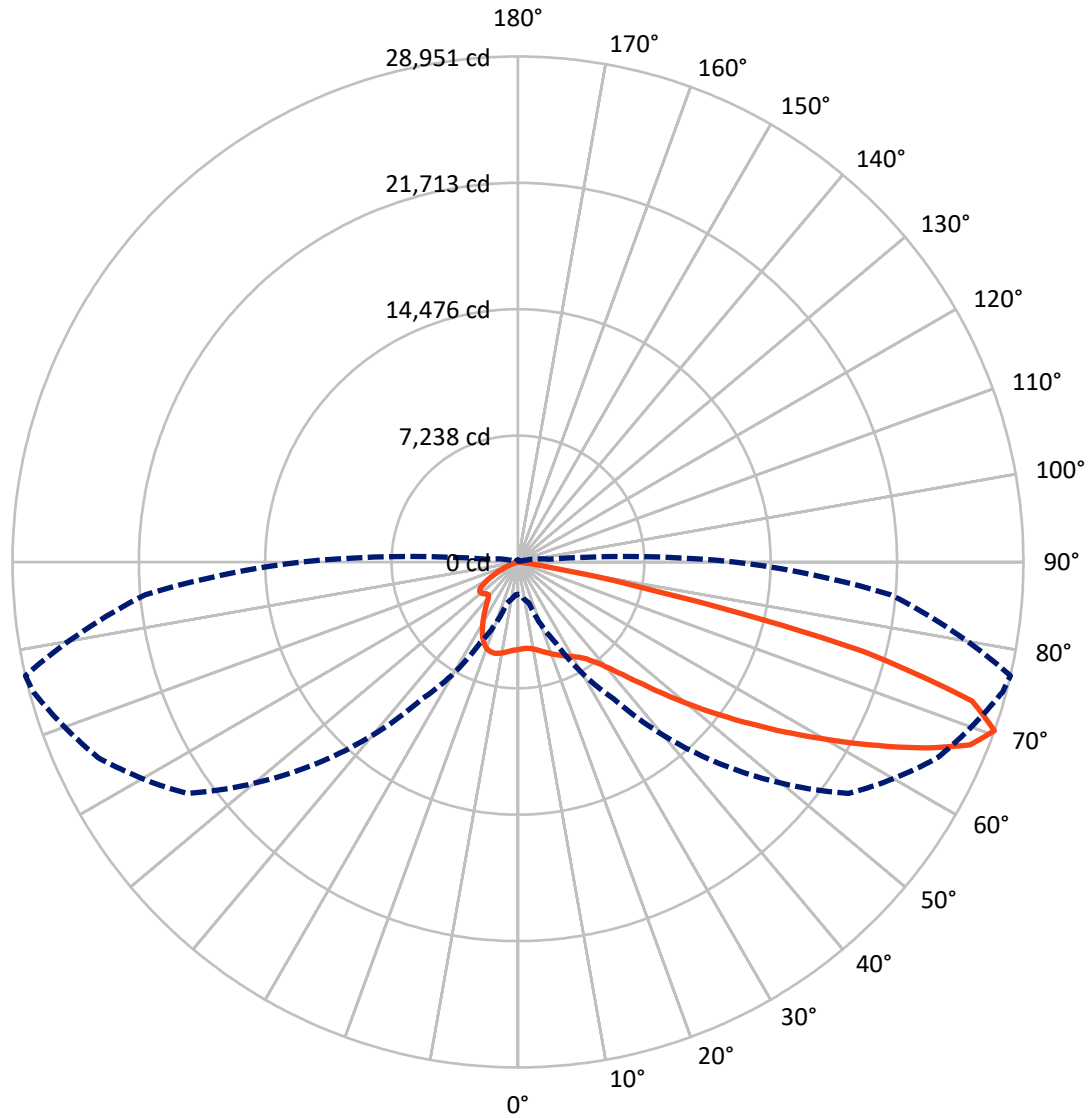
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P954444
CATALOG NUMBER: GALN-SB7C-940-U-T3R-HSS

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	3387.1	0.0	3387.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	28743.9	0.0	28743.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	32131.0	0.0	32131.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.9	1.3
10°-20°	1025.4	3.2
20°-30°	1586.0	4.9
30°-40°	2877.8	9.0
40°-50°	5432.3	16.9
50°-60°	7849.2	24.4
60°-70°	8355.3	26.0
70°-80°	4427.7	13.8
80°-90°	145.4	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°	32131.0	100.0
0°-180°	32131.0	100.0

Coefficient of Utilization



REPORT NUMBER: P954444

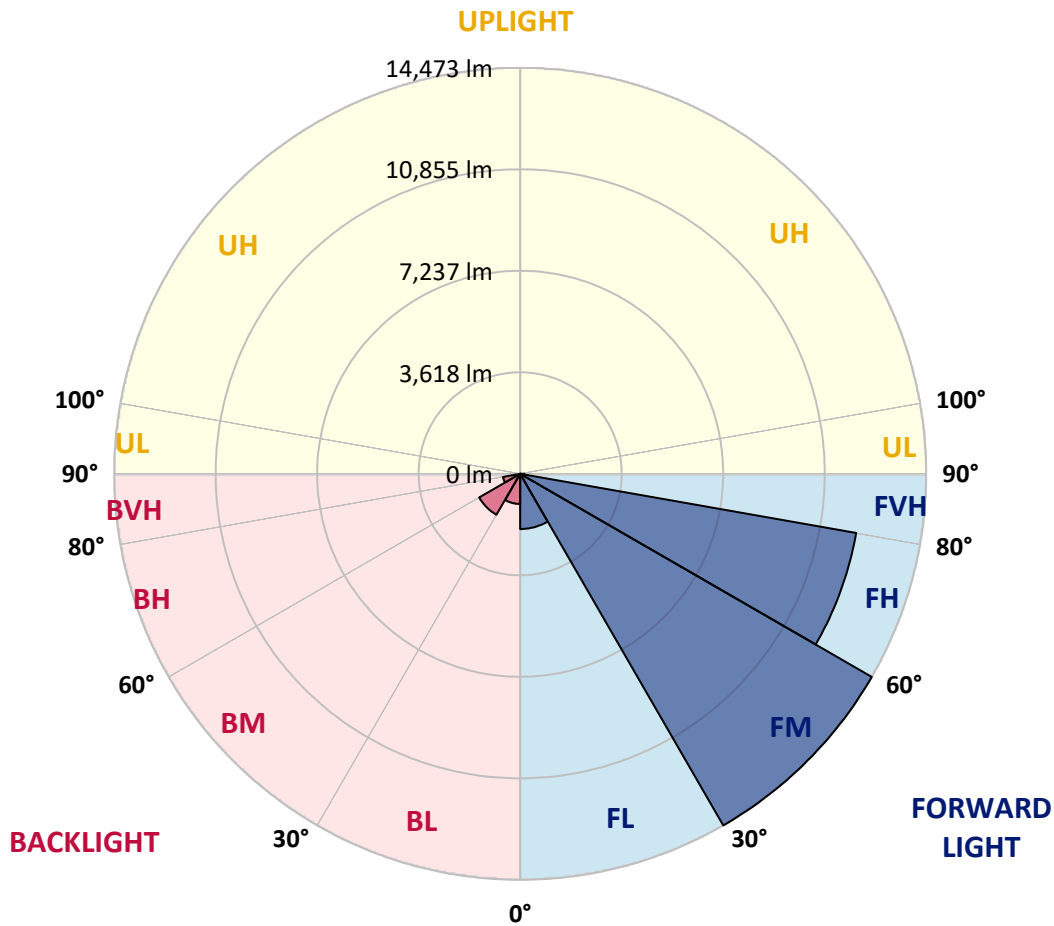
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1967.2	6.1			
FM (30°-60°)	14473.2	45.0			
FH (60°-80°)	12162.0	37.9			G5
FVH (80°-90°)	141.5	0.4			G2/225
BL (0°-30°)	1076.1	3.3	B3/2500		
BM (30°-60°)	1686.1	5.2	B2/2500		
BH (60°-80°)	620.9	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.9	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



REPORT NUMBER: P954444

CATALOG NUMBER: GALN-SB7C-940-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5011.9	5011.9	5011.9	5011.9	5011.9	5011.9	5011.9	5011.9	5011.9	5011.9
2.5°	4705.5	4748.1	4742.0	4770.4	4780.5	4821.1	4861.7	4916.5	4977.4	4975.3
5°	4439.7	4482.3	4492.4	4531.0	4579.7	4642.6	4725.8	4835.3	4949.0	4967.2
7.5°	4125.1	4169.8	4196.2	4273.3	4362.5	4492.4	4628.4	4788.7	4977.4	5003.7
10°	3810.6	3851.2	3885.7	3995.3	4137.3	4330.1	4551.3	4782.6	5036.2	5074.8
12.5°	3615.8	3654.4	3692.9	3788.3	3964.8	4200.2	4500.5	4811.0	5133.6	5188.4
15°	3546.9	3581.3	3611.8	3697.0	3861.4	4129.2	4490.4	4869.8	5257.4	5330.4
17.5°	3557.0	3575.3	3595.5	3660.5	3820.8	4096.7	4508.6	4971.3	5403.5	5468.4
20°	3615.8	3626.0	3628.0	3672.7	3814.7	4092.7	4545.2	5068.7	5541.4	5628.7
22.5°	3690.9	3695.0	3690.9	3721.4	3853.2	4123.1	4593.9	5186.4	5695.7	5776.8
25°	4042.0	3964.8	3867.4	3808.6	3918.2	4182.0	4666.9	5344.6	5864.1	5943.2
27.5°	5131.6	4910.4	4561.4	4169.8	4052.1	4267.2	4768.4	5504.9	6034.5	6105.5
30°	6900.9	6610.8	6018.3	5135.6	4482.3	4445.7	4900.3	5665.2	6215.1	6292.2
32.5°	8674.4	8603.3	7919.5	6698.0	5450.1	4843.4	5119.4	5882.3	6454.5	6515.4
35°	10468.1	10324.0	9764.0	8556.7	6941.5	5653.0	5484.6	6166.4	6769.0	6838.0
37.5°	11841.8	11754.5	11407.6	10413.3	8710.9	6903.0	6109.6	6606.7	7225.6	7302.7
40°	13055.2	13014.6	12896.9	12241.5	10689.3	8538.4	7081.5	7288.5	7858.7	7950.0
42.5°	14008.8	14104.2	14171.2	13988.6	12728.5	10405.2	8388.3	8246.2	8741.3	8834.7
45°	14984.8	15017.3	15287.2	15551.0	14753.5	12357.2	9861.4	9368.3	9839.1	9954.7
47.5°	15611.8	15741.7	16216.5	16681.2	16455.9	14292.9	11444.1	10693.3	11111.3	11328.4
50°	15658.5	15904.0	16557.4	17367.0	17695.7	16135.3	13164.7	12203.0	12647.3	12886.8
52.5°	14881.4	15262.8	16275.3	17460.3	18365.3	17695.7	14944.3	13712.6	14282.8	14595.3
55°	11409.6	11908.7	15214.1	16953.1	18391.7	18878.7	16677.1	15285.1	16104.9	16458.0
57.5°	9940.5	10192.1	11961.5	16072.4	17902.7	19355.5	18243.6	16782.6	18087.3	18525.6
60°	8270.6	8601.3	10031.8	14631.8	17239.2	19402.2	19627.4	18714.3	20236.1	20729.2
62.5°	5620.6	5979.7	7402.1	12156.3	16332.2	19379.9	20761.7	20702.8	22624.4	23154.0
65°	3481.9	3707.1	4644.6	9926.3	15064.0	19404.2	21948.7	23117.4	25144.5	25682.2
67.5°	2751.4	2854.9	3343.9	7621.3	12878.6	18856.3	23133.7	25388.0	27516.5	27942.6
70°	1848.5	1911.4	2432.9	5109.3	9581.4	16328.1	23111.4	26528.3	28738.0	28951.1
72.5°	974.0	1022.7	1422.4	2365.9	5787.0	11606.4	19481.3	25164.8	27522.6	27202.0
75°	487.0	568.1	957.7	1201.2	2471.4	6472.8	12097.4	19840.5	21662.6	20420.8
77.5°	369.3	446.4	791.3	791.3	860.3	2179.2	5123.5	10821.1	9981.1	8311.2
80°	235.4	304.4	691.9	598.6	359.1	553.9	1335.1	3031.5	2120.4	1613.1
82.5°	138.0	198.9	576.3	395.7	200.9	204.9	377.4	645.3	549.9	428.1
85°	54.8	129.9	395.7	156.2	79.1	50.7	113.6	138.0	113.6	85.2
87.5°	0.0	30.4	69.0	0.0	6.1	4.1	8.1	10.1	10.1	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954444
 CATALOG NUMBER: GALN-SB7C-940-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5011.9	0°	5011.9	5011.9	5011.9	5011.9	5011.9	5011.9	5011.9	5011.9	5011.9	5011.9
5015.9	2.5°	5034.2	5038.2	5050.4	5052.4	5024.0	4987.5	4973.3	4967.2	4942.9	4940.8
5048.4	5°	5095.0	5113.3	5095.0	5042.3	4916.5	4740.0	4606.0	4496.5	4397.0	4366.6
5160.0	7.5°	5216.8	5235.1	5180.3	4973.3	4656.8	4305.7	3989.2	3766.0	3565.1	3490.0
5295.9	10°	5391.3	5415.6	5243.2	4825.2	4265.2	3701.1	3165.4	2788.0	2493.8	2374.0
5480.6	12.5°	5610.4	5620.6	5277.7	4600.0	3755.8	2950.3	2191.4	1787.6	1525.9	1428.5
5703.8	15°	5851.9	5837.7	5281.7	4293.6	3061.9	2085.9	1430.5	1174.8	1069.3	1036.9
5927.0	17.5°	6105.5	6046.7	5200.6	3851.2	2301.0	1426.5	1061.2	1000.3	982.1	974.0
6148.1	20°	6355.1	6223.2	5052.4	3272.9	1651.7	1065.3	963.8	945.6	935.4	931.4
6371.3	22.5°	6582.4	6357.1	4798.8	2601.3	1199.2	941.5	911.1	894.8	876.6	868.5
6588.5	25°	6803.5	6434.2	4441.7	1974.3	959.8	880.6	856.3	825.8	801.5	791.3
6821.8	27.5°	7018.6	6482.9	3995.3	1460.9	856.3	823.8	779.2	736.6	718.3	714.2
7071.4	30°	7247.9	6499.2	3488.0	1089.6	793.4	752.8	687.9	639.2	629.0	631.0
7408.2	32.5°	7527.9	6523.5	2976.7	892.8	740.6	667.6	590.5	539.7	531.6	539.7
7899.3	35°	7862.7	6572.2	2483.6	821.8	693.9	580.3	497.1	454.5	446.4	452.5
8528.3	37.5°	8317.2	6651.4	2023.0	807.6	655.4	507.3	418.0	383.5	383.5	385.5
9299.3	40°	8921.9	6862.4	1611.1	797.4	635.1	452.5	353.1	338.9	344.9	349.0
10281.4	42.5°	9658.5	7310.8	1333.1	785.3	612.8	428.1	320.6	314.5	324.7	328.7
11458.3	45°	10484.3	7879.0	1235.7	765.0	592.5	444.4	306.4	298.3	310.5	312.5
12777.2	47.5°	11338.6	8434.9	1223.5	742.6	572.2	468.7	302.3	284.1	298.3	300.3
14185.4	50°	12203.0	8798.1	1235.7	708.2	539.7	468.7	304.4	269.9	282.0	288.1
15646.3	52.5°	13073.4	8964.5	1227.6	633.1	482.9	440.3	304.4	257.7	269.9	273.9
17225.0	55°	13917.5	8932.1	1103.8	521.5	409.9	389.6	296.2	247.5	255.7	257.7
18716.3	57.5°	14585.1	8479.6	874.5	405.8	332.8	324.7	269.9	235.4	241.5	239.4
20083.9	60°	14934.1	7485.3	625.0	312.5	261.8	255.7	237.4	219.1	223.2	213.1
21242.6	62.5°	14938.2	6170.5	418.0	247.5	209.0	202.9	202.9	196.8	192.8	172.5
22139.4	65°	14619.6	4711.6	278.0	196.8	168.4	158.3	170.4	168.4	154.2	125.8
22413.3	67.5°	13897.2	3088.3	211.0	154.2	129.9	123.8	135.9	142.0	131.9	105.5
21415.0	70°	12412.0	1797.8	174.5	119.7	97.4	91.3	109.6	121.7	109.6	85.2
18304.4	72.5°	10309.8	969.9	142.0	89.3	67.0	60.9	87.3	99.4	87.3	62.9
11744.4	75°	6689.9	519.4	109.6	58.8	34.5	38.6	64.9	73.0	60.9	40.6
3447.4	77.5°	2246.2	229.3	69.0	28.4	16.2	16.2	38.6	44.6	28.4	14.2
627.0	80°	501.2	95.4	28.4	12.2	6.1	6.1	8.1	8.1	4.1	0.0
192.8	82.5°	164.4	38.6	12.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
48.7	85°	62.9	14.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.2	87.5°	24.3	2.0	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>
5011.9
4944.9
4348.3
3459.6
2323.3
1398.0
1036.9
971.9
927.3
866.4
787.3
710.2
631.0
537.7
450.5
383.5
349.0
328.7
314.5
302.3
290.2
273.9
257.7
239.4
211.0
166.4
121.7
103.5
81.2
60.9
36.5
12.2
0.0
0.0
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