

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: P957298

Luminaire Tested: **GALN-SB9C-940-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-940-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37777 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

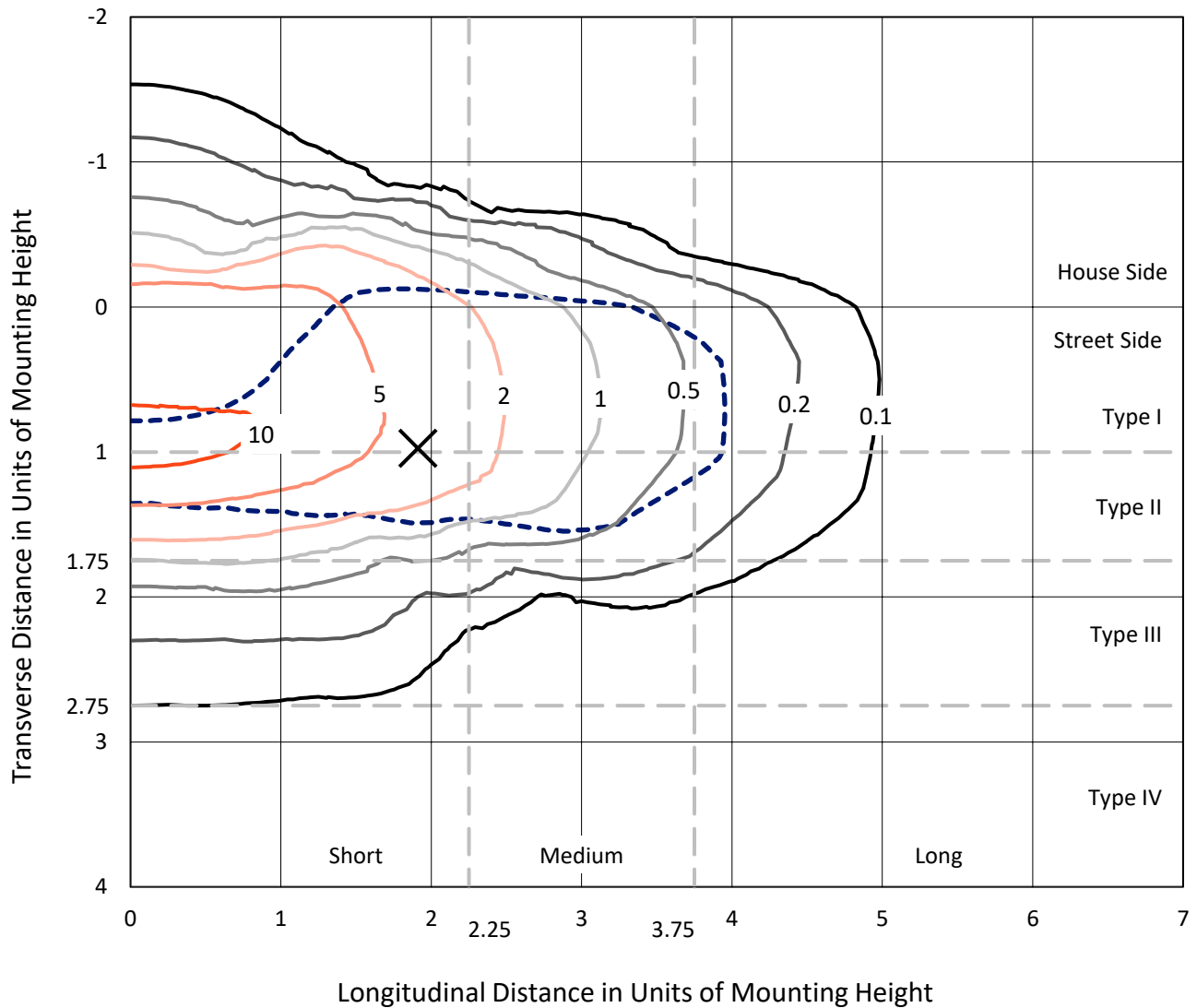
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

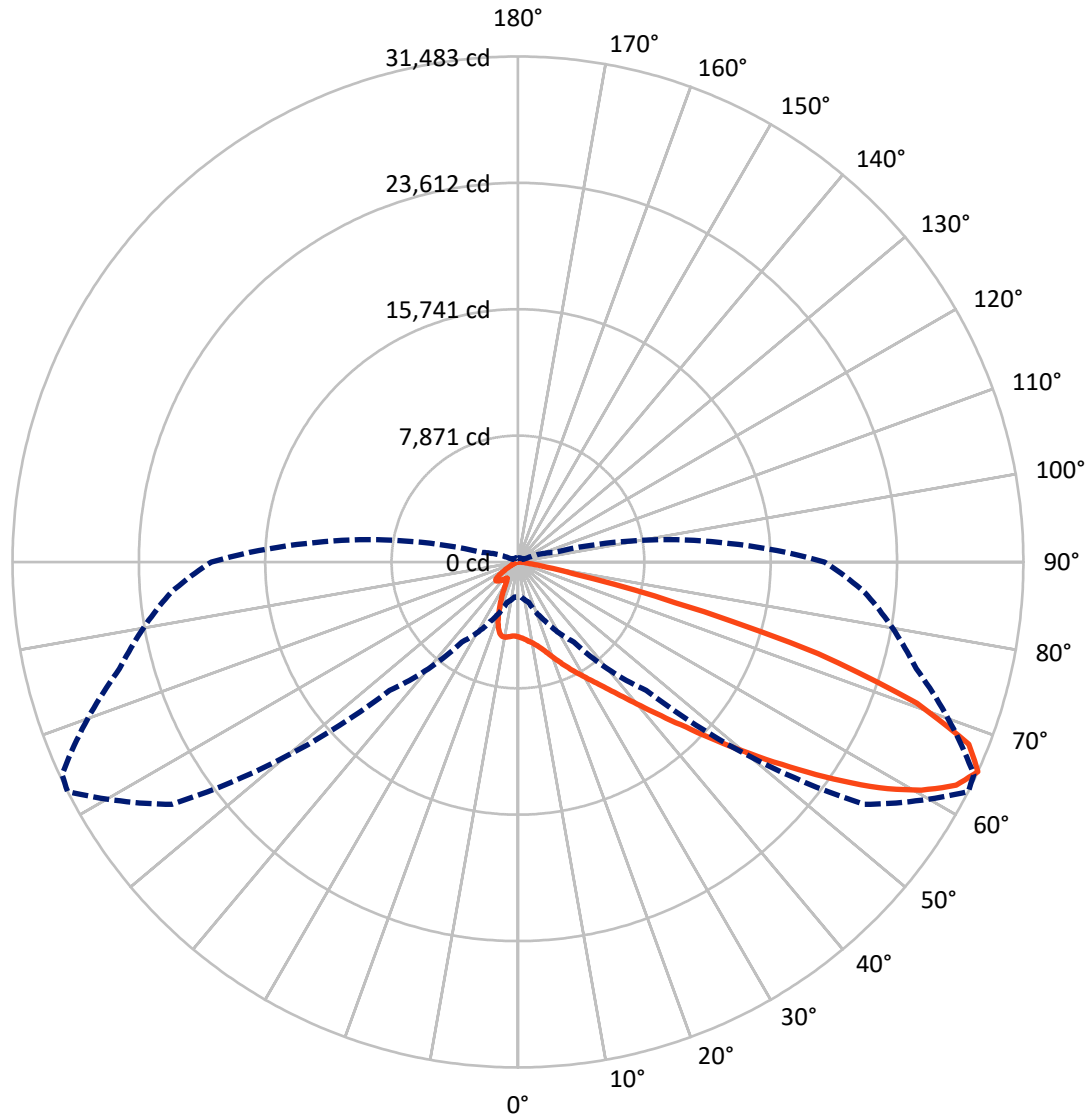
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5552.9	0.0	5552.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	32224.1	0.0	32224.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	37777.0	0.0	37777.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.3	1.2
10°-20°	1218.9	3.2
20°-30°	2122.3	5.6
30°-40°	3825.3	10.1
40°-50°	7586.8	20.1
50°-60°	10334.4	27.4
60°-70°	8248.9	21.8
70°-80°	3732.8	9.9
80°-90°	268.3	0.7
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°	37777.0	100.0
0°-180°	37777.0	100.0

Coefficient of Utilization



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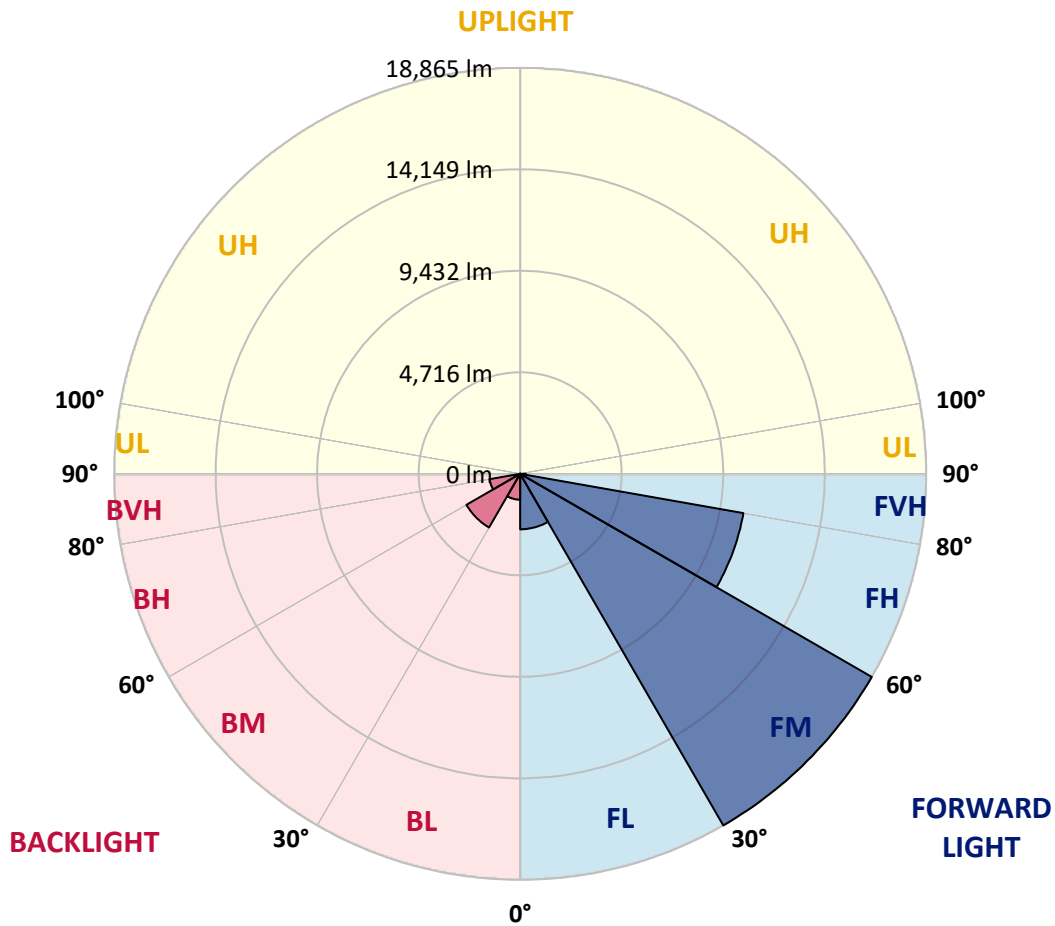
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2578.7	6.8			
FM (30°-60°)	18864.9	49.9			
FH (60°-80°)	10532.0	27.9			G4/12000
FVH (80°-90°)	248.4	0.7			G3/500
BL (0°-30°)	1201.7	3.2	B3/2500		
BM (30°-60°)	2881.6	7.6	B3/5000		
BH (60°-80°)	1449.6	3.8	B3/2500		G3/2500
BVH (80°-90°)	19.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	4662.4	4662.4	4662.4	4662.4	4662.4	4662.4	4662.4	4662.4	4662.4	4662.4
2.5°	4771.5	4758.6	4776.7	4768.9	4763.8	4753.4	4748.2	4743.0	4732.6	4724.8
5°	4784.5	4776.7	4794.9	4810.5	4826.1	4841.7	4849.5	4859.9	4849.5	4828.7
7.5°	4675.4	4670.2	4709.2	4756.0	4826.1	4885.9	4950.9	4987.3	4989.9	4982.1
10°	4667.6	4654.6	4693.6	4750.8	4841.7	4948.3	5062.6	5140.6	5151.0	5184.8
12.5°	4789.7	4776.7	4831.3	4893.7	4987.3	5099.0	5239.3	5348.5	5364.1	5410.9
15°	4995.1	4976.9	5039.2	5119.8	5239.3	5366.7	5514.8	5613.6	5626.6	5683.8
17.5°	5234.1	5216.0	5288.7	5374.5	5504.4	5678.6	5850.1	5959.2	5974.8	6011.2
20°	5540.8	5517.4	5574.6	5652.6	5790.3	5998.2	6203.5	6359.5	6356.9	6356.9
22.5°	5896.9	5860.5	5909.9	5972.2	6102.2	6354.3	6627.2	6811.7	6811.7	6738.9
25°	6278.9	6242.5	6297.1	6354.3	6468.6	6754.5	7074.2	7302.9	7313.3	7188.5
27.5°	6757.1	6710.3	6751.9	6819.5	6887.0	7178.1	7557.6	7822.6	7827.8	7635.5
30°	7677.1	7544.6	7414.6	7341.8	7373.0	7661.5	8066.9	8360.6	8386.6	8121.5
32.5°	9361.2	9335.2	8877.8	8280.0	7968.2	8181.3	8636.1	8989.5	9005.1	8664.7
35°	11978.3	11947.1	11211.6	10073.3	9057.1	8877.8	9327.4	9745.8	9735.4	9350.8
37.5°	15102.1	15073.5	14104.1	12581.2	10936.1	9930.3	10218.8	10658.0	10723.0	10218.8
40°	17771.2	17664.6	17051.3	15582.9	13431.0	11676.8	11487.1	11778.1	11845.7	11248.0
42.5°	19793.1	19702.1	19390.3	18472.9	16450.9	14260.1	12981.4	13093.2	13168.5	12451.2
45°	20840.4	20819.6	20944.4	20858.6	19528.0	17430.7	15117.7	14652.5	14681.1	13784.5
47.5°	20988.6	20978.2	21547.3	22353.0	22173.7	21006.8	17859.5	16596.5	16495.1	15289.2
50°	20115.4	20094.6	21186.1	22696.0	23940.9	24011.1	20973.0	18787.3	18563.8	16846.0
52.5°	17326.8	17321.6	19114.8	21627.9	24562.0	26641.1	24050.1	21193.9	20819.6	18493.6
55°	13332.3	13428.4	15484.1	18454.7	23428.9	27906.8	26812.7	23865.5	23291.2	20151.7
57.5°	9444.3	9584.7	11617.0	14262.7	19915.2	27158.3	28681.3	26542.4	25923.9	21804.6
60°	5073.0	5197.8	7232.7	10390.3	14816.2	24367.1	29666.2	28865.8	28281.0	23374.4
62.5°	3022.5	3064.1	3906.1	6707.7	10021.3	18615.8	29247.8	30635.6	30154.8	24692.0
65°	2170.1	2177.9	2601.5	4095.8	6084.0	11310.3	26313.7	31482.9	31334.7	25684.8
67.5°	1827.0	1821.8	1998.5	2721.0	4145.2	5665.6	20167.3	30284.8	30913.7	26313.7
70°	1567.1	1574.9	1782.8	1993.3	3116.1	3207.0	10026.5	26368.3	27709.3	26480.0
72.5°	1166.9	1192.9	1385.2	1816.6	2352.0	2206.5	3461.7	19551.4	21976.2	24949.3
75°	823.8	836.8	974.6	1528.1	1754.2	1606.1	1767.2	10107.1	13215.3	19127.8
77.5°	634.1	657.5	738.1	1068.1	1728.3	1127.9	1081.1	3498.1	5374.5	11554.6
80°	343.1	384.6	532.8	771.9	1213.7	797.9	535.4	1393.0	1821.8	5403.1
82.5°	176.7	197.5	371.6	556.2	691.3	696.5	265.1	579.6	751.1	1668.5
85°	70.2	85.8	249.5	306.7	356.0	343.1	119.5	233.9	270.3	462.6
87.5°	15.6	26.0	91.0	70.2	67.6	72.8	28.6	54.6	52.0	54.6
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°
4662.4	0°	4662.4	4662.4	4662.4	4662.4	4662.4	4662.4	4662.4	4662.4	4662.4	4662.4
4693.6	2.5°	4691.0	4680.6	4652.0	4620.8	4584.4	4563.6	4550.6	4548.0	4529.9	4516.9
4797.5	5°	4768.9	4758.6	4704.0	4639.0	4568.8	4514.3	4462.3	4415.5	4347.9	4334.9
4948.3	7.5°	4924.9	4896.3	4807.9	4719.6	4587.0	4428.5	4236.2	4015.3	3817.8	3758.0
5148.4	10°	5117.2	5078.2	4966.5	4810.5	4516.9	4085.4	3620.2	3188.8	2845.8	2749.6
5384.9	12.5°	5335.5	5301.7	5153.6	4865.1	4223.2	3440.9	2728.8	2193.5	1860.8	1777.6
5637.0	15°	5595.4	5546.0	5340.7	4781.9	3698.2	2614.5	1873.8	1556.7	1437.2	1421.6
5925.5	17.5°	5870.9	5790.3	5507.0	4483.1	2991.3	1858.2	1447.6	1356.6	1304.6	1289.0
6216.5	20°	6123.0	6019.0	5605.8	4030.9	2235.0	1447.6	1296.8	1237.1	1190.3	1172.1
6507.6	22.5°	6375.1	6226.9	5605.8	3414.9	1676.3	1283.8	1190.3	1135.7	1081.1	1057.7
6819.5	25°	6637.5	6440.0	5507.0	2728.8	1348.8	1177.3	1088.9	1029.2	982.4	953.8
7115.7	27.5°	6892.2	6619.4	5280.9	2079.1	1200.7	1083.7	995.4	938.2	894.0	873.2
7438.0	30°	7133.9	6796.1	4963.9	1577.5	1104.5	992.8	909.6	860.2	816.0	795.3
7856.4	32.5°	7461.4	7019.6	4626.0	1294.2	1021.4	907.0	831.6	784.9	745.9	730.3
8399.6	35°	7916.2	7349.6	4334.9	1270.9	951.2	836.8	761.5	717.3	678.3	665.3
9101.3	37.5°	8560.7	7882.4	4181.6	1426.8	894.0	774.5	704.3	657.5	621.1	610.7
9992.7	40°	9356.0	8604.9	4264.8	1582.7	855.0	719.9	652.3	605.5	574.4	561.4
11016.7	42.5°	10299.4	9496.3	4724.8	1702.3	829.0	673.1	602.9	551.0	530.2	525.0
12178.4	45°	11383.1	10476.1	5429.1	1829.6	787.5	628.9	553.6	514.6	499.0	496.4
13441.4	47.5°	12615.0	11552.0	6245.1	1988.1	745.9	587.3	514.6	488.6	475.6	470.4
14759.1	50°	13836.5	12635.8	7084.6	2076.5	712.1	548.4	483.4	462.6	452.2	449.6
16152.1	52.5°	15115.1	13750.7	7762.9	1993.3	683.5	517.2	457.4	441.8	431.4	428.8
17435.9	55°	16334.0	14652.5	7879.8	1691.9	626.3	486.0	428.8	421.0	408.0	408.0
18737.9	57.5°	17383.9	15104.7	7053.4	1242.3	569.2	439.2	400.2	392.4	382.0	379.4
19912.6	60°	18348.1	14974.8	5444.7	836.8	506.8	392.4	363.8	358.6	348.3	335.3
20934.0	62.5°	18891.3	14403.0	3724.2	545.8	444.4	343.1	322.3	319.7	296.3	270.3
21690.3	65°	19096.6	13228.3	2323.4	397.6	371.6	293.7	278.1	272.9	239.1	210.5
22119.1	67.5°	18917.3	11294.7	1172.1	314.5	293.7	244.3	228.7	228.7	205.3	179.3
22093.1	70°	18200.0	8467.2	493.8	252.1	226.1	187.1	187.1	197.5	174.1	145.5
20947.0	72.5°	16643.2	5696.8	262.5	192.3	168.9	132.5	153.3	161.1	137.7	109.2
17144.8	75°	13230.9	3474.7	181.9	142.9	106.6	93.6	116.9	122.1	93.6	72.8
11754.7	77.5°	9049.3	1995.9	122.1	91.0	67.6	54.6	80.6	75.4	49.4	33.8
4532.5	80°	3973.7	831.6	70.2	41.6	26.0	20.8	28.6	20.8	15.6	10.4
621.1	82.5°	465.2	194.9	26.0	15.6	10.4	5.2	2.6	0.0	0.0	0.0
189.7	85°	96.2	23.4	13.0	5.2	2.6	0.0	0.0	0.0	0.0	0.0
33.8	87.5°	18.2	5.2	2.6	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>
4662.4
4529.9
4329.7
3729.4
2713.2
1754.2
1406.0
1281.2
1161.7
1044.8
943.4
873.2
797.9
730.3
665.3
608.1
558.8
525.0
493.8
470.4
449.6
428.8
405.4
376.8
332.7
265.1
207.9
176.7
142.9
109.2
70.2
36.4
10.4
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