

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: P943456

Luminaire Tested: **GALN-SB7D-940-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-940-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41128 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

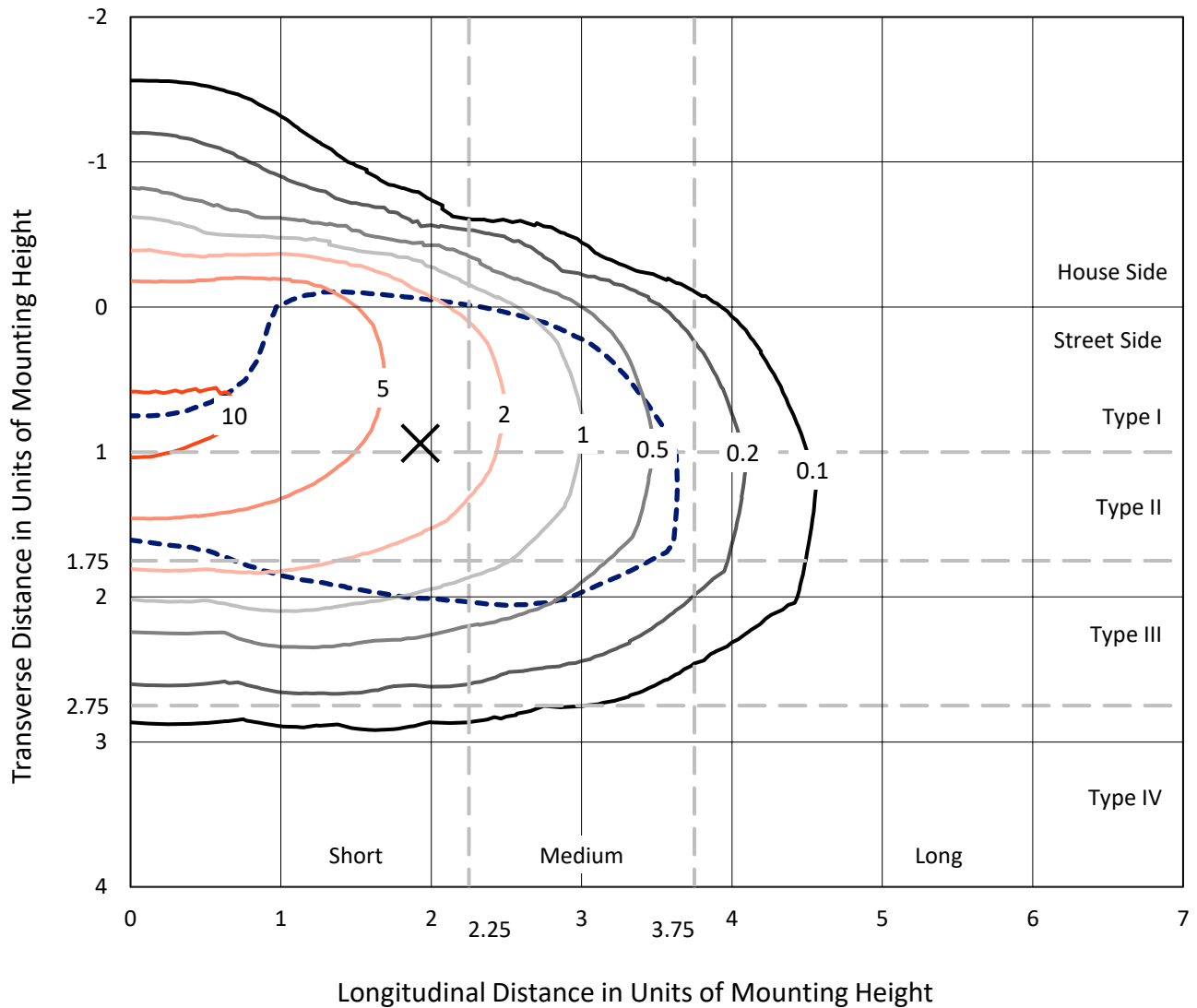
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

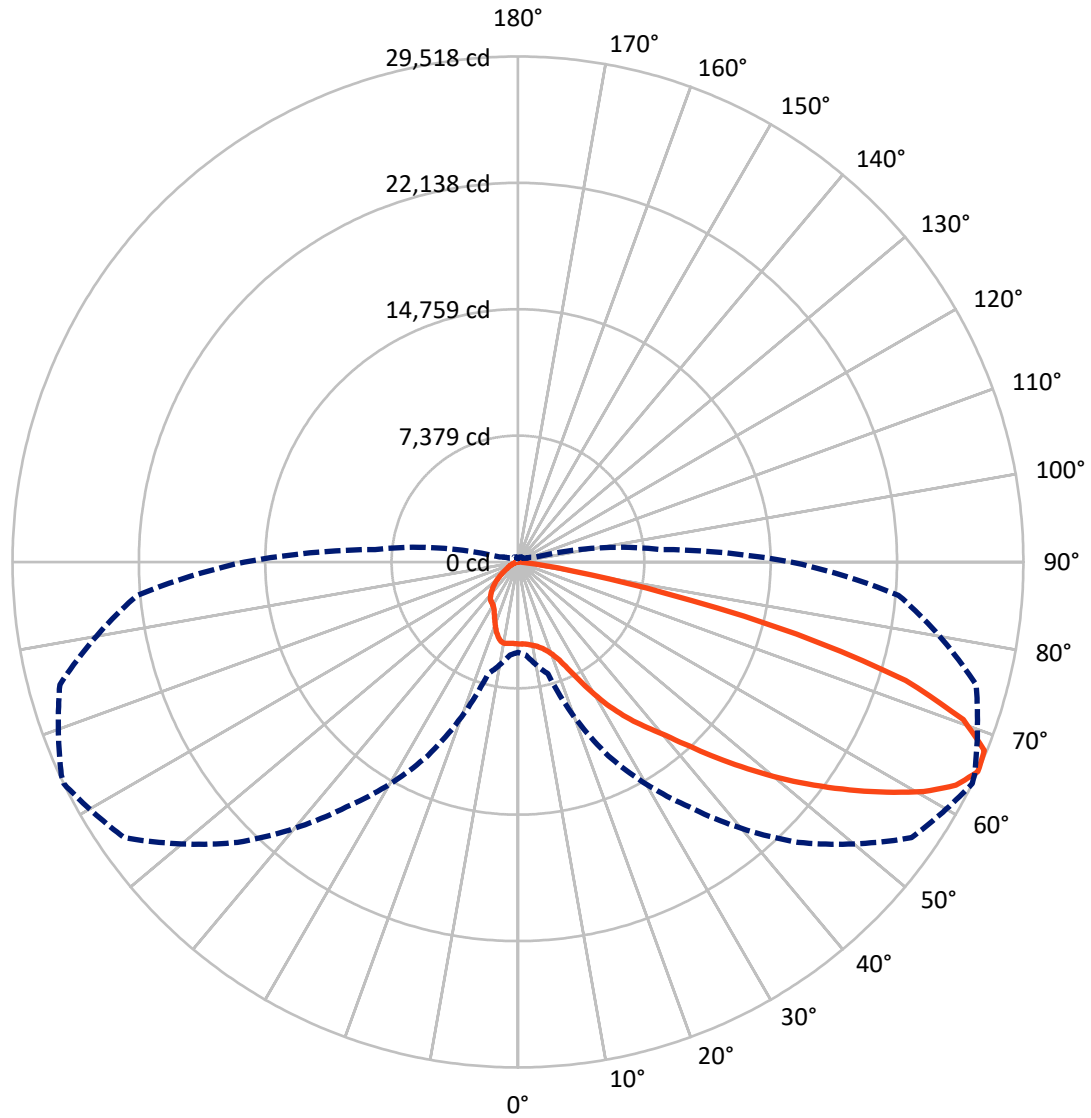
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5500.1	0.0	5500.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	35627.9	0.0	35627.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	41128.0	0.0	41128.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.3	1.1
10°-20°	1197.0	2.9
20°-30°	2268.3	5.5
30°-40°	4589.9	11.2
40°-50°	7819.0	19.0
50°-60°	10633.2	25.9
60°-70°	9985.1	24.3
70°-80°	4000.5	9.7
80°-90°	193.8	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°	41128.0	100.0
0°-180°	41128.0	100.0

Coefficient of Utilization



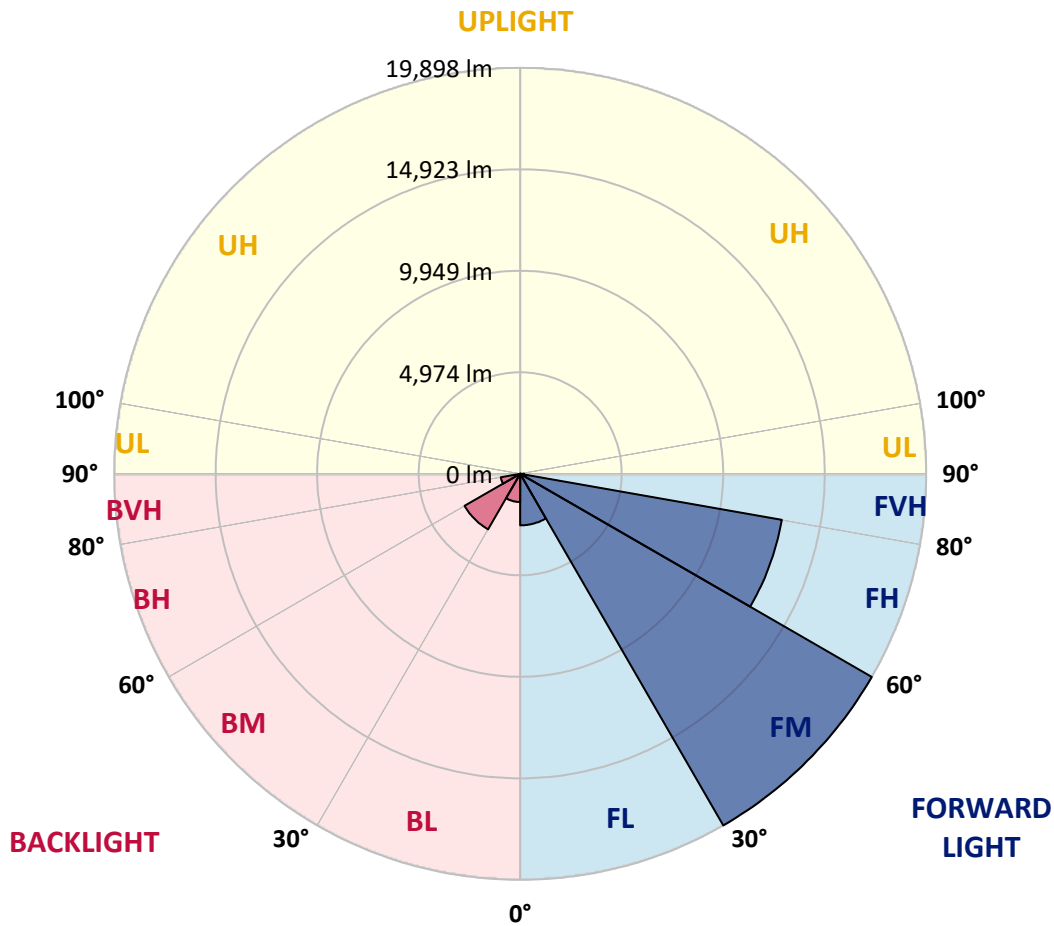
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2525.7	6.1			
FM (30°-60°)	19897.7	48.4			
FH (60°-80°)	13020.2	31.7			G5
FVH (80°-90°)	184.3	0.4			G2/225
BL (0°-30°)	1380.9	3.4	B3/2500		
BM (30°-60°)	3144.3	7.6	B3/5000		
BH (60°-80°)	965.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	9.5	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6
2.5°	4767.1	4800.2	4791.9	4783.6	4780.9	4786.4	4789.1	4786.4	4786.4	4786.4
5°	4676.1	4703.7	4703.7	4723.0	4750.5	4783.6	4808.4	4813.9	4819.5	4827.7
7.5°	4502.4	4524.4	4541.0	4604.4	4673.3	4761.6	4836.0	4874.6	4880.1	4910.4
10°	4383.8	4411.4	4439.0	4505.1	4604.4	4736.7	4863.6	4957.3	4971.1	5042.8
12.5°	4378.3	4405.9	4441.7	4513.4	4629.2	4769.8	4924.2	5059.3	5084.1	5188.9
15°	4436.2	4469.3	4502.4	4590.6	4714.7	4885.6	5051.1	5219.2	5244.1	5392.9
17.5°	4554.8	4598.9	4623.7	4711.9	4844.3	5034.5	5252.3	5445.3	5467.4	5641.1
20°	4789.1	4841.5	4849.8	4921.5	5051.1	5255.1	5514.3	5754.1	5781.7	5980.2
22.5°	5274.4	5348.8	5282.7	5318.5	5434.3	5638.3	5919.5	6222.8	6261.4	6487.5
25°	6129.1	6233.9	6062.9	6002.3	6051.9	6264.2	6617.1	7000.3	7044.5	7226.4
27.5°	7808.2	7673.1	7413.9	7160.3	7011.4	7132.7	7529.7	8003.9	8059.1	8235.5
30°	9652.7	9534.1	9184.0	8621.5	8268.6	8249.3	8616.0	9145.4	9208.8	9377.0
32.5°	11500.0	11386.9	11006.4	10314.4	9702.3	9399.0	9652.7	10240.0	10273.1	10380.6
35°	13316.9	13201.1	12820.6	12112.1	11359.4	10670.1	10620.4	11282.2	11293.2	11406.2
37.5°	15144.9	15048.4	14643.1	13948.3	13206.6	12255.4	11795.0	12269.2	12283.0	12393.3
40°	16449.0	16490.4	16211.9	15674.3	15037.4	13997.9	13112.9	13319.7	13237.0	13421.7
42.5°	17568.4	17651.1	17408.5	17138.3	16768.8	15853.5	14745.1	14709.3	14576.9	14676.2
45°	18536.2	18605.1	18387.3	18323.9	18315.6	17673.2	16529.0	16313.9	16129.2	16109.9
47.5°	18891.8	19024.2	19117.9	19330.2	19743.8	19473.6	18373.5	18039.9	17833.1	17681.4
50°	19026.9	19167.5	19487.4	20105.0	21083.7	21199.5	20209.7	19834.8	19581.1	19305.4
52.5°	18845.0	19095.9	19526.0	20565.4	21985.3	22583.6	21971.5	21643.4	21353.9	20904.5
55°	17772.4	18023.3	18902.9	20559.9	22434.7	23554.1	23636.8	23490.7	23165.4	22456.8
57.5°	15511.6	15883.8	17276.2	19859.6	22426.5	24389.5	25269.1	25373.8	25009.9	23995.3
60°	12379.5	12884.0	14582.4	18307.3	21734.4	24841.7	26700.0	27223.9	26837.9	25511.7
62.5°	8638.1	9222.6	10830.0	15875.5	20151.8	24516.4	27745.0	28712.7	28420.5	26868.2
65°	5268.9	5456.4	6752.2	12492.5	17460.9	23154.3	28067.5	29517.8	29421.3	27698.1
67.5°	3509.8	3667.0	4039.2	8566.4	13554.0	20433.1	27295.5	29377.2	29404.7	27563.0
70°	2114.7	2249.8	2492.4	4982.1	8784.2	16173.3	24905.1	27585.0	27745.0	25757.1
72.5°	871.3	962.2	1182.8	2258.1	4549.3	10264.8	19832.0	23683.7	24055.9	21657.2
75°	493.5	540.4	694.8	1133.2	1974.1	4783.6	12012.8	16813.0	17361.6	14927.1
77.5°	328.1	350.2	449.4	733.4	1111.1	1632.2	5133.8	8759.4	9807.1	8152.8
80°	220.6	239.9	308.8	490.8	722.4	700.3	1635.0	3245.1	3992.3	2801.2
82.5°	148.9	151.6	220.6	322.6	457.7	339.1	482.5	1009.1	1268.3	810.6
85°	85.5	82.7	162.7	187.5	204.0	140.6	146.1	303.3	397.0	341.9
87.5°	11.0	16.5	63.4	49.6	27.6	30.3	30.3	52.4	77.2	82.7
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°
4783.6	0°	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6	4783.6
4789.1	2.5°	4789.1	4786.4	4778.1	4769.8	4750.5	4739.5	4745.0	4739.5	4736.7	4739.5
4825.0	5°	4825.0	4816.7	4794.6	4767.1	4728.5	4681.6	4651.3	4607.2	4565.8	4541.0
4921.5	7.5°	4921.5	4913.2	4882.9	4805.7	4681.6	4485.8	4306.6	4149.5	4030.9	3962.0
5075.9	10°	5075.9	5062.1	5015.2	4844.3	4518.9	4091.6	3735.9	3440.9	3247.9	3156.9
5257.8	12.5°	5257.8	5241.3	5158.6	4808.4	4210.1	3542.9	3052.1	2724.0	2544.8	2464.9
5467.4	15°	5472.9	5450.8	5288.2	4637.5	3760.7	2936.3	2486.9	2241.5	2125.7	2054.1
5734.8	17.5°	5740.3	5701.7	5384.7	4381.1	3272.7	2473.1	2139.5	1954.8	1852.8	1783.9
6085.0	20°	6087.7	6024.3	5461.9	4075.0	2823.3	2180.9	1905.2	1750.8	1673.6	1612.9
6581.3	22.5°	6573.0	6482.0	5555.6	3744.2	2506.2	1979.6	1731.5	1618.4	1555.0	1486.1
7273.3	25°	7174.0	7066.5	5671.4	3438.1	2288.4	1805.9	1604.6	1510.9	1436.5	1356.5
8180.4	27.5°	8015.0	7822.0	5809.3	3187.2	2100.9	1657.0	1488.8	1384.1	1298.6	1232.4
9208.8	30°	8952.4	8635.3	5930.6	3035.6	1930.0	1519.2	1337.2	1232.4	1152.5	1105.6
10132.4	32.5°	9840.2	9410.1	6010.5	2969.4	1775.6	1362.0	1171.8	1058.7	998.1	984.3
11036.8	35°	10678.3	10110.4	6002.3	2906.0	1637.7	1204.9	1009.1	893.3	846.4	854.7
12010.0	37.5°	11643.3	10857.6	5944.4	2806.8	1524.7	1061.5	868.5	766.5	725.1	727.9
13192.8	40°	12765.5	11720.5	5908.5	2619.3	1400.6	929.2	752.7	670.0	639.7	628.6
14439.1	42.5°	13962.1	12556.0	5914.0	2407.0	1246.2	810.6	672.7	603.8	576.2	568.0
15825.9	45°	15164.2	13352.8	5922.3	2186.4	1083.6	719.6	614.8	556.9	540.4	529.4
17232.0	47.5°	16294.6	14031.0	5767.9	1949.3	923.6	650.7	568.0	529.4	515.6	501.8
18643.7	50°	17347.8	14483.2	5395.7	1673.6	796.8	595.5	532.1	504.6	490.8	477.0
19923.0	52.5°	18166.7	14554.9	4780.9	1389.6	708.6	554.2	510.1	485.3	468.7	454.9
20956.9	55°	18530.6	14105.5	3906.8	1124.9	639.7	518.3	488.0	463.2	443.9	430.1
21770.3	57.5°	18436.9	13159.8	3046.6	904.3	573.5	482.5	460.4	443.9	421.8	399.8
22429.2	60°	17976.5	11894.2	2296.7	752.7	512.8	443.9	430.1	416.3	386.0	352.9
22682.9	62.5°	17179.7	10303.4	1637.7	623.1	446.7	399.8	394.3	383.2	339.1	278.5
22307.9	65°	15961.0	8370.6	1102.9	518.3	383.2	350.2	352.9	333.6	275.7	206.8
20934.9	67.5°	14179.9	6120.8	705.8	424.6	319.8	292.3	295.0	284.0	234.4	176.5
18332.1	70°	11910.8	4053.0	460.4	322.6	256.4	226.1	242.6	245.4	198.5	143.4
14069.6	72.5°	8731.8	2393.2	322.6	239.9	187.5	157.2	198.5	204.0	159.9	107.5
8464.4	75°	4976.6	1135.9	242.6	173.7	115.8	110.3	154.4	154.4	110.3	71.7
3664.2	77.5°	2089.9	474.2	170.9	113.0	66.2	63.4	104.8	96.5	55.1	33.1
893.3	80°	603.8	212.3	91.0	55.1	27.6	24.8	41.4	30.3	13.8	5.5
339.1	82.5°	237.1	93.7	35.8	22.1	11.0	11.0	5.5	0.0	0.0	0.0
193.0	85°	140.6	38.6	16.5	8.3	2.8	0.0	0.0	0.0	0.0	0.0
41.4	87.5°	35.8	8.3	5.5	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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180°
4783.6
4750.5
4546.5
3964.7
3148.6
2456.6
2056.8
1778.3
1601.9
1475.1
1348.2
1218.6
1097.3
992.6
854.7
738.9
625.9
565.2
529.4
501.8
477.0
452.2
427.4
397.0
347.4
273.0
201.3
168.2
137.9
102.0
66.2
33.1
5.5
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