

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: P954801

Luminaire Tested: **GALN-SB7D-940-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954801
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-SB7D-940-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 900mA 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: 43659 lumens
Efficiency: N/A
Efficacy: 85.1 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

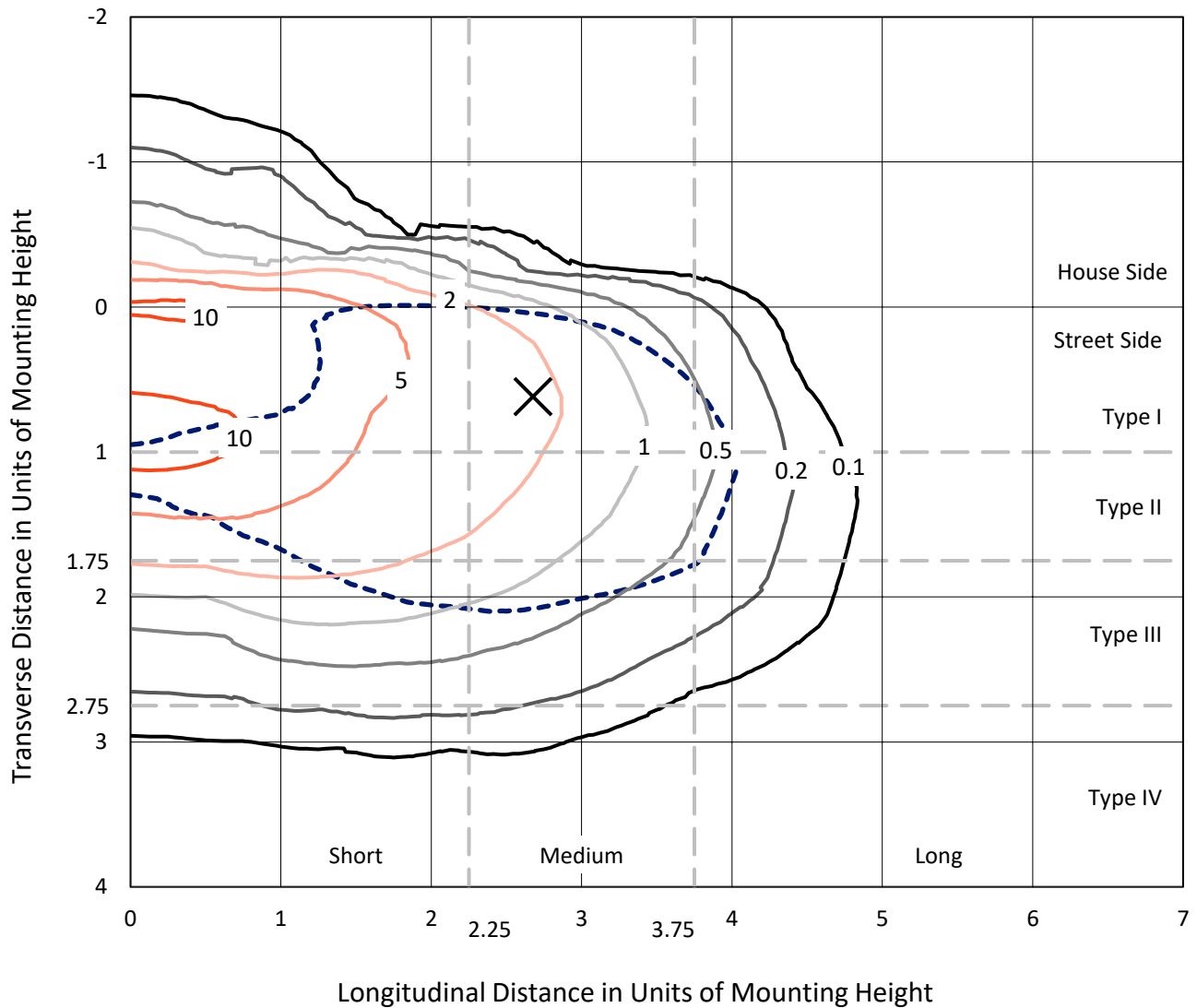
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

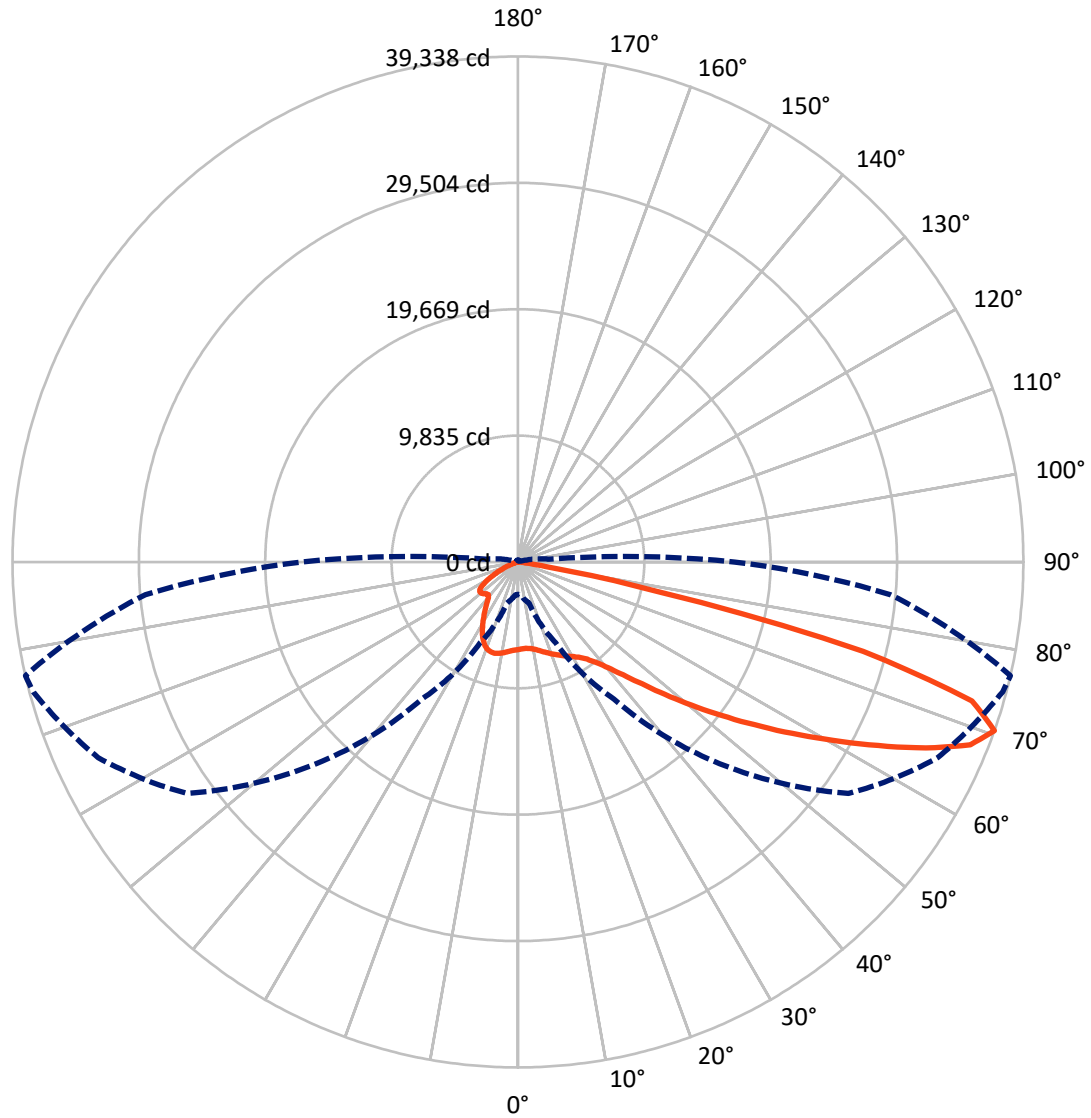
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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	4602.3	0.0	4602.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	39056.7	0.0	39056.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	43659.0	0.0	43659.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.9	1.3
10°-20°	1393.3	3.2
20°-30°	2155.0	4.9
30°-40°	3910.4	9.0
40°-50°	7381.3	16.9
50°-60°	10665.3	24.4
60°-70°	11353.0	26.0
70°-80°	6016.3	13.8
80°-90°	197.5	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°	43659.0	100.0
0°-180°	43659.0	100.0

Coefficient of Utilization



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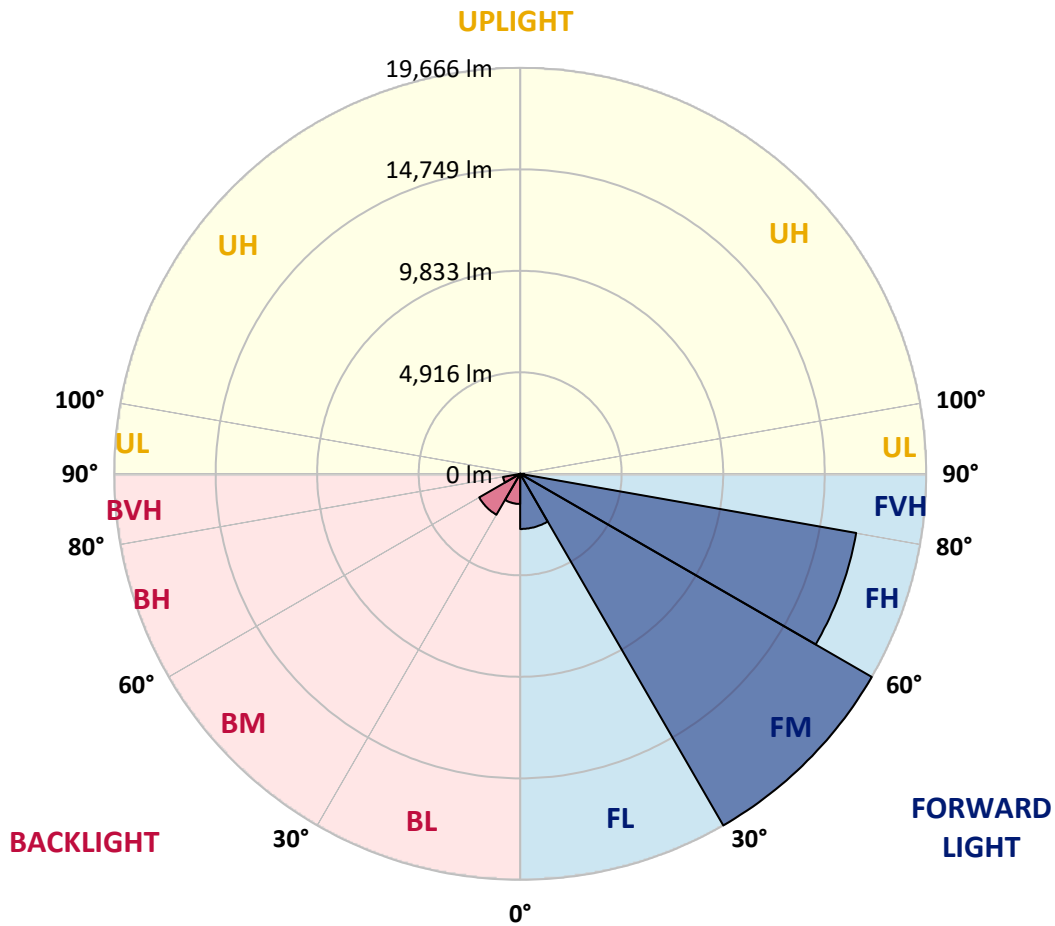
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2673.0	6.1			
FM (30°-60°)	19666.0	45.0			
FH (60°-80°)	16525.5	37.9			G5
FVH (80°-90°)	192.2	0.4			G2/225
BL (0°-30°)	1462.2	3.3	B3/2500		
BM (30°-60°)	2291.0	5.2	B2/2500		
BH (60°-80°)	843.7	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6810.0	6810.0	6810.0	6810.0	6810.0	6810.0	6810.0	6810.0	6810.0	6810.0
2.5°	6393.7	6451.6	6443.3	6481.9	6495.7	6550.8	6606.0	6680.4	6763.1	6760.4
5°	6032.5	6090.4	6104.2	6156.6	6222.8	6308.2	6421.3	6570.1	6724.5	6749.4
7.5°	5605.2	5665.8	5701.7	5806.4	5927.7	6104.2	6288.9	6506.7	6763.1	6799.0
10°	5177.8	5233.0	5279.8	5428.7	5621.7	5883.6	6184.2	6498.5	6843.1	6895.5
12.5°	4913.1	4965.5	5017.9	5147.5	5387.4	5707.2	6115.2	6537.1	6975.4	7049.9
15°	4819.4	4866.3	4907.6	5023.4	5246.7	5610.7	6101.4	6617.0	7143.6	7242.9
17.5°	4833.2	4858.0	4885.6	4973.8	5191.6	5566.6	6126.3	6754.9	7342.1	7430.4
20°	4913.1	4926.9	4929.7	4990.3	5183.3	5561.1	6175.9	6887.2	7529.6	7648.2
22.5°	5015.1	5020.7	5015.1	5056.5	5235.7	5602.4	6242.1	7047.1	7739.2	7849.4
25°	5492.1	5387.4	5255.0	5175.1	5323.9	5682.4	6341.3	7262.2	7968.0	8075.5
27.5°	6972.7	6672.2	6197.9	5665.8	5505.9	5798.2	6479.2	7480.0	8199.6	8296.1
30°	9376.9	8982.6	8177.5	6978.2	6090.4	6040.8	6658.4	7697.8	8445.0	8549.7
32.5°	11786.6	11690.1	10760.9	9101.2	7405.5	6581.2	6956.1	7992.8	8770.3	8853.0
35°	14223.8	14028.1	13267.1	11626.7	9432.0	7681.3	7452.4	8378.8	9197.7	9291.4
37.5°	16090.4	15971.8	15500.4	14149.4	11836.2	9379.6	8301.6	8977.1	9818.0	9922.8
40°	17739.1	17684.0	17524.1	16633.5	14524.4	11601.8	9622.2	9903.5	10678.2	10802.3
42.5°	19035.0	19164.5	19255.5	19007.4	17295.2	14138.4	11397.8	11204.8	11877.5	12004.4
45°	20361.1	20405.2	20771.9	21130.3	20046.8	16790.7	13399.5	12729.5	13369.1	13526.3
47.5°	21213.1	21389.5	22034.7	22666.0	22360.0	19421.0	15550.0	14529.9	15097.8	15392.8
50°	21276.5	21610.1	22497.9	23597.9	24044.6	21924.4	17888.0	16581.1	17185.0	17510.3
52.5°	20220.5	20738.8	22114.6	23724.8	24954.4	24044.6	20306.0	18632.4	19407.2	19831.8
55°	15503.1	16181.4	20672.7	23035.5	24990.3	25652.0	22660.5	20769.2	21883.0	22362.8
57.5°	13507.0	13848.9	16253.1	21838.9	24325.8	26299.9	24789.0	22803.9	24576.7	25172.2
60°	11237.9	11687.3	13631.1	19881.4	23424.2	26363.3	26669.3	25428.7	27496.5	28166.4
62.5°	7637.1	8125.1	10057.9	16517.7	22191.8	26333.0	28210.6	28130.6	30741.6	31461.2
65°	4731.2	5037.2	6311.0	13487.7	20468.6	26366.1	29823.5	31411.5	34165.9	34896.5
67.5°	3738.6	3879.2	4543.7	10355.6	17499.3	25621.6	31433.6	34496.7	37388.9	37967.9
70°	2511.7	2597.2	3305.8	6942.4	13019.0	22186.3	31403.3	36046.2	39048.7	39338.2
72.5°	1323.4	1389.6	1932.7	3214.8	7863.2	15770.6	26470.8	34193.4	37397.2	36961.6
75°	661.7	772.0	1301.3	1632.2	3358.1	8795.1	16437.8	26958.8	29434.7	27747.4
77.5°	501.8	606.6	1075.3	1075.3	1169.0	2961.1	6961.7	14703.6	13562.1	11293.0
80°	319.8	413.6	940.2	813.3	488.0	752.7	1814.2	4119.1	2881.2	2191.9
82.5°	187.5	270.2	783.0	537.6	273.0	278.5	512.8	876.8	747.2	581.7
85°	74.4	176.5	537.6	212.3	107.5	68.9	154.4	187.5	154.4	115.8
87.5°	0.0	41.4	93.7	0.0	8.3	5.5	11.0	13.8	13.8	11.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6810.0	0°	6810.0	6810.0	6810.0	6810.0	6810.0	6810.0	6810.0	6810.0	6810.0	6810.0
6815.5	2.5°	6840.3	6845.9	6862.4	6865.2	6826.6	6776.9	6757.6	6749.4	6716.3	6713.5
6859.6	5°	6923.1	6947.9	6923.1	6851.4	6680.4	6440.6	6258.6	6109.7	5974.6	5933.3
7011.3	7.5°	7088.5	7113.3	7038.9	6757.6	6327.5	5850.5	5420.4	5117.2	4844.2	4742.2
7196.0	10°	7325.6	7358.7	7124.3	6556.4	5795.4	5028.9	4301.1	3788.2	3388.5	3225.8
7446.9	12.5°	7623.4	7637.1	7171.2	6250.3	5103.4	4008.8	2977.7	2429.0	2073.3	1941.0
7750.2	15°	7951.5	7932.2	7176.7	5834.0	4160.5	2834.3	1943.7	1596.4	1453.0	1408.9
8053.5	17.5°	8296.1	8216.1	7066.4	5233.0	3126.5	1938.2	1442.0	1359.2	1334.4	1323.4
8354.0	20°	8635.2	8456.0	6865.2	4447.2	2244.3	1447.5	1309.6	1284.8	1271.0	1265.5
8657.3	22.5°	8944.0	8638.0	6520.5	3534.6	1629.4	1279.3	1237.9	1215.9	1191.1	1180.0
8952.3	25°	9244.5	8742.7	6035.3	2682.6	1304.1	1196.6	1163.5	1122.1	1089.1	1075.3
9269.3	27.5°	9536.8	8808.9	5428.7	1985.1	1163.5	1119.4	1058.7	1000.8	976.0	970.5
9608.5	30°	9848.3	8831.0	4739.4	1480.6	1078.0	1022.9	934.7	868.5	854.7	857.5
10066.1	32.5°	10228.8	8864.0	4044.7	1213.1	1006.3	907.1	802.3	733.4	722.4	733.4
10733.4	35°	10683.7	8930.2	3374.7	1116.6	942.9	788.5	675.5	617.6	606.6	614.8
11588.1	37.5°	11301.3	9037.7	2748.8	1097.3	890.5	689.3	568.0	521.1	521.1	523.8
12635.7	40°	12122.9	9324.5	2189.1	1083.5	863.0	614.8	479.7	460.4	468.7	474.2
13970.2	42.5°	13123.8	9933.8	1811.4	1067.0	832.6	581.7	435.6	427.3	441.1	446.6
15569.3	45°	14245.9	10705.8	1679.1	1039.4	805.1	603.8	416.3	405.3	421.8	424.6
17361.4	47.5°	15406.6	11461.2	1662.5	1009.1	777.5	636.9	410.8	386.0	405.3	408.0
19274.8	50°	16581.1	11954.7	1679.1	962.2	733.4	636.9	413.6	366.7	383.2	391.5
21259.9	52.5°	17763.9	12180.8	1668.0	860.2	656.2	598.3	413.6	350.2	366.7	372.2
23404.9	55°	18910.9	12136.7	1499.9	708.6	556.9	529.4	402.5	336.4	347.4	350.2
25431.4	57.5°	19818.0	11521.9	1188.3	551.4	452.2	441.1	366.7	319.8	328.1	325.3
27289.7	60°	20292.2	10170.9	849.2	424.6	355.7	347.4	322.6	297.8	303.3	289.5
28864.0	62.5°	20297.7	8384.3	568.0	336.4	284.0	275.7	275.7	267.4	261.9	234.4
30082.6	65°	19864.8	6402.0	377.7	267.4	228.8	215.1	231.6	228.8	209.5	170.9
30454.8	67.5°	18883.3	4196.3	286.7	209.5	176.5	168.2	184.7	193.0	179.2	143.4
29098.3	70°	16865.1	2442.8	237.1	162.7	132.3	124.1	148.9	165.4	148.9	115.8
24871.7	72.5°	14008.8	1317.9	193.0	121.3	91.0	82.7	118.6	135.1	118.6	85.5
15958.0	75°	9090.1	705.8	148.9	80.0	46.9	52.4	88.2	99.3	82.7	55.1
4684.3	77.5°	3052.1	311.6	93.7	38.6	22.1	22.1	52.4	60.7	38.6	19.3
851.9	80°	681.0	129.6	38.6	16.5	8.3	8.3	11.0	11.0	5.5	0.0
261.9	82.5°	223.3	52.4	16.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
66.2	85°	85.5	19.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.1	87.5°	33.1	2.8	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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180°
6810.0
6719.0
5908.4
4700.8
3156.9
1899.6
1408.9
1320.6
1260.0
1177.3
1069.8
965.0
857.5
730.6
612.1
521.1
474.2
446.6
427.3
410.8
394.3
372.2
350.2
325.3
286.7
226.1
165.4
140.6
110.3
82.7
49.6
16.5
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