

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: P954799

Luminaire Tested: **GALN-SB7D-940-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954799
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-SB7D-940-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 900mA 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: 40078 lumens
Efficiency: N/A
Efficacy: 78.2 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

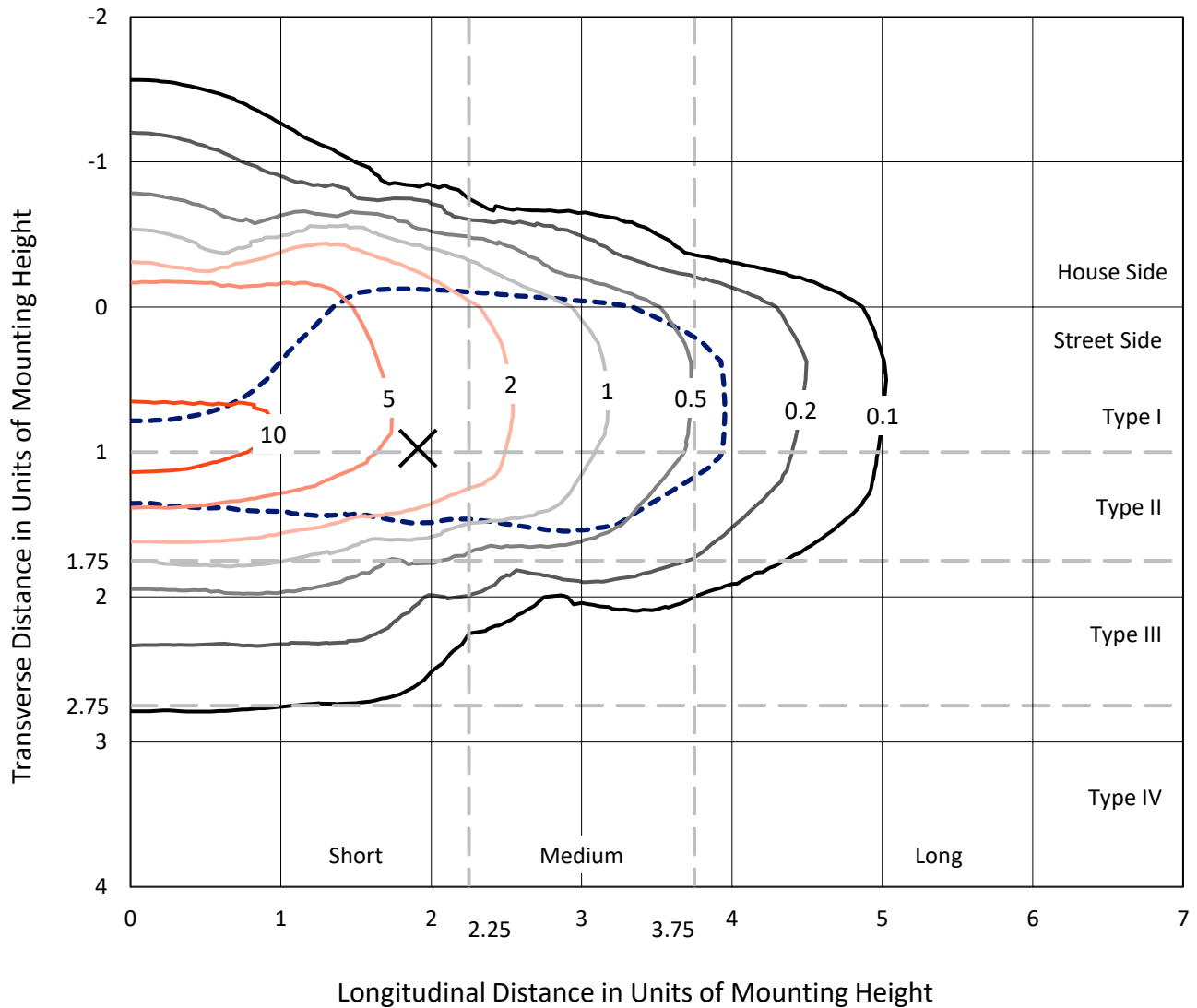
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

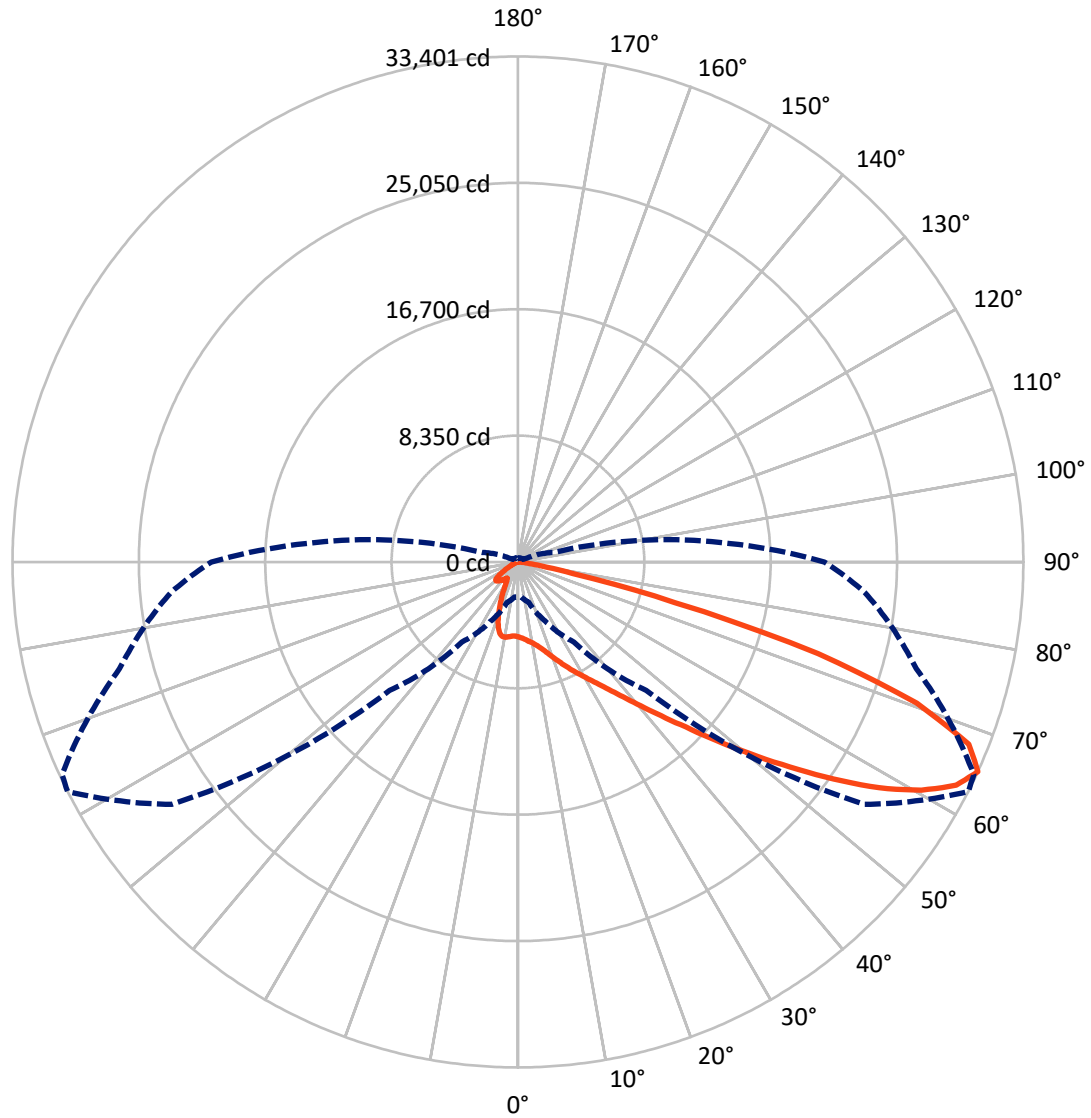
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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	5891.1	0.0	5891.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	34186.8	0.0	34186.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	40078.0	0.0	40078.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.0	1.2
10°-20°	1293.1	3.2
20°-30°	2251.6	5.6
30°-40°	4058.3	10.1
40°-50°	8048.9	20.1
50°-60°	10963.9	27.4
60°-70°	8751.3	21.8
70°-80°	3960.2	9.9
80°-90°	284.7	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°	40078.0	100.0
0°-180°	40078.0	100.0

Coefficient of Utilization



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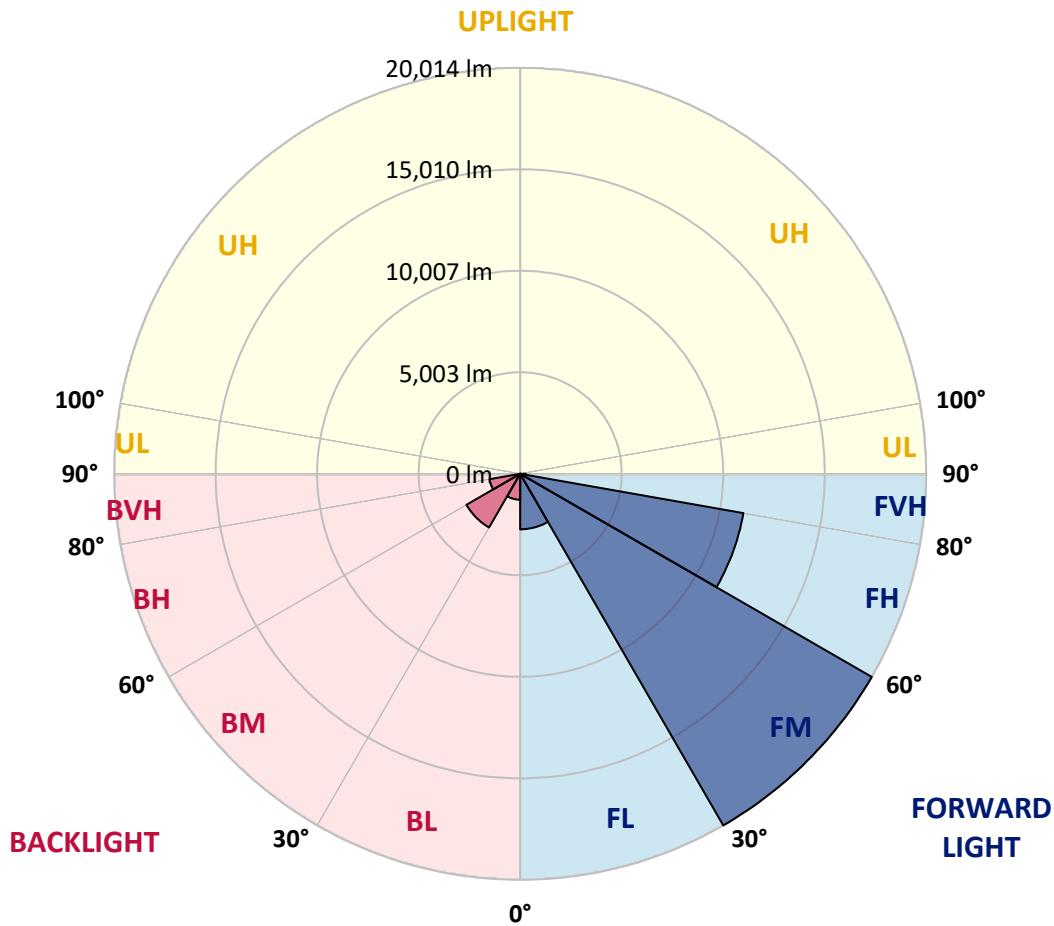
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2735.8	6.8			
FM (30°-60°)	20013.9	49.9			
FH (60°-80°)	11173.6	27.9			G4/12000
FVH (80°-90°)	263.5	0.7			G3/500
BL (0°-30°)	1274.9	3.2	B3/2500		
BM (30°-60°)	3057.2	7.6	B3/5000		
BH (60°-80°)	1537.9	3.8	B3/2500		G3/2500
BVH (80°-90°)	21.1	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°	4946.4	4946.4	4946.4	4946.4	4946.4	4946.4	4946.4	4946.4	4946.4	4946.4
2.5°	5062.2	5048.4	5067.7	5059.4	5053.9	5042.9	5037.4	5031.9	5020.8	5012.6
5°	5076.0	5067.7	5087.0	5103.5	5120.1	5136.6	5144.9	5155.9	5144.9	5122.8
7.5°	4960.2	4954.7	4996.0	5045.6	5120.1	5183.5	5252.4	5291.0	5293.8	5285.5
10°	4951.9	4938.1	4979.5	5040.1	5136.6	5249.7	5371.0	5453.7	5464.7	5500.6
12.5°	5081.5	5067.7	5125.6	5191.8	5291.0	5409.6	5558.5	5674.3	5690.8	5740.5
15°	5299.3	5280.0	5346.2	5431.6	5558.5	5693.6	5850.7	5955.5	5969.3	6030.0
17.5°	5553.0	5533.7	5610.9	5701.9	5839.7	6024.4	6206.4	6322.2	6338.8	6377.4
20°	5878.3	5853.5	5914.2	5996.9	6143.0	6363.6	6581.4	6746.8	6744.1	6744.1
22.5°	6256.0	6217.4	6269.8	6336.0	6473.9	6741.3	7030.8	7226.6	7226.6	7149.4
25°	6661.3	6622.7	6680.6	6741.3	6862.6	7165.9	7505.0	7747.7	7758.7	7626.4
27.5°	7168.7	7119.0	7163.2	7234.8	7306.5	7615.3	8017.9	8299.1	8304.6	8100.6
30°	8144.7	8004.1	7866.2	7789.0	7822.1	8128.2	8558.3	8869.9	8897.4	8616.2
32.5°	9931.4	9903.8	9418.5	8784.4	8453.5	8679.6	9162.1	9537.1	9553.6	9192.4
35°	12707.8	12674.8	11894.5	10686.8	9608.8	9418.5	9895.5	10339.4	10328.4	9920.3
37.5°	16022.0	15991.6	14963.2	13347.5	11602.2	10535.2	10841.2	11307.2	11376.1	10841.2
40°	18853.6	18740.6	18089.9	16532.1	14249.1	12388.0	12186.7	12495.5	12567.2	11933.1
42.5°	20998.7	20902.2	20571.3	19598.0	17453.0	15128.7	13772.1	13890.7	13970.6	13209.7
45°	22109.8	22087.8	22220.1	22129.1	20717.5	18492.4	16038.5	15545.0	15575.3	14624.1
47.5°	22267.0	22256.0	22859.8	23714.5	23524.3	22286.3	18947.3	17607.4	17499.8	16220.5
50°	21340.6	21318.5	22476.5	24078.5	25399.2	25473.6	22250.4	19931.7	19694.5	17872.0
52.5°	18382.1	18376.6	20279.1	22945.3	26058.1	28263.9	25515.0	22484.8	22087.8	19620.1
55°	14144.3	14246.4	16427.3	19578.7	24856.0	29606.6	28445.8	25319.2	24709.9	21379.2
57.5°	10019.6	10168.5	12324.6	15131.4	21128.3	28812.5	30428.2	28159.1	27502.9	23132.7
60°	5382.0	5514.4	7673.2	11023.2	15718.7	25851.3	31473.2	30624.0	30003.6	24798.1
62.5°	3206.6	3250.7	4144.0	7116.3	10631.7	19749.7	31029.3	32501.6	31991.6	26196.0
65°	2302.2	2310.5	2759.9	4345.3	6454.6	11999.3	27916.5	33400.5	33243.3	27249.2
67.5°	1938.3	1932.8	2120.3	2886.8	4397.7	6010.7	21395.7	32129.4	32796.7	27916.5
70°	1662.6	1670.9	1891.4	2114.8	3305.9	3402.4	10637.2	27974.4	29397.1	28092.9
72.5°	1238.0	1265.5	1469.6	1927.3	2495.2	2340.8	3672.6	20742.3	23314.7	26468.9
75°	874.0	887.8	1033.9	1621.2	1861.1	1703.9	1874.9	10722.7	14020.3	20292.9
77.5°	672.8	697.6	783.0	1133.2	1833.5	1196.6	1147.0	3711.2	5701.9	12258.4
80°	363.9	408.1	565.2	818.9	1287.6	846.5	568.0	1477.8	1932.8	5732.2
82.5°	187.5	209.5	394.3	590.0	733.4	738.9	281.2	614.9	796.8	1770.1
85°	74.4	91.0	264.7	325.3	377.7	363.9	126.8	248.1	286.7	490.8
87.5°	16.5	27.6	96.5	74.4	71.7	77.2	30.3	57.9	55.1	57.9
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°
4946.4	0°	4946.4	4946.4	4946.4	4946.4	4946.4	4946.4	4946.4	4946.4	4946.4	4946.4
4979.5	2.5°	4976.7	4965.7	4935.4	4902.3	4863.7	4841.6	4827.8	4825.1	4805.8	4792.0
5089.8	5°	5059.4	5048.4	4990.5	4921.6	4847.1	4789.2	4734.1	4684.5	4612.8	4599.0
5249.7	7.5°	5224.9	5194.5	5100.8	5007.0	4866.4	4698.2	4494.2	4259.8	4050.3	3986.9
5462.0	10°	5428.9	5387.5	5269.0	5103.5	4792.0	4334.3	3840.8	3383.1	3019.1	2917.1
5712.9	12.5°	5660.5	5624.6	5467.5	5161.4	4480.4	3650.5	2895.0	2327.1	1974.1	1885.9
5980.3	15°	5936.2	5883.8	5666.0	5073.2	3923.5	2773.7	1987.9	1651.6	1524.7	1508.2
6286.4	17.5°	6228.5	6143.0	5842.5	4756.1	3173.5	1971.4	1535.7	1439.2	1384.1	1367.6
6595.2	20°	6495.9	6385.6	5947.2	4276.4	2371.2	1535.7	1375.8	1312.4	1262.8	1243.5
6904.0	22.5°	6763.4	6606.2	5947.2	3622.9	1778.4	1362.0	1262.8	1204.9	1147.0	1122.2
7234.8	25°	7041.8	6832.3	5842.5	2895.0	1431.0	1249.0	1155.3	1091.8	1042.2	1011.9
7549.2	27.5°	7312.0	7022.5	5602.6	2205.7	1273.8	1149.7	1056.0	995.3	948.5	926.4
7891.1	30°	7568.5	7210.0	5266.2	1673.6	1171.8	1053.2	965.0	912.6	865.8	843.7
8335.0	32.5°	7915.9	7447.1	4907.8	1373.1	1083.6	962.3	882.3	832.7	791.3	774.8
8911.2	35°	8398.4	7797.3	4599.0	1348.3	1009.1	887.8	807.9	761.0	719.6	705.8
9655.6	37.5°	9082.2	8362.5	4436.3	1513.7	948.5	821.6	747.2	697.6	659.0	647.9
10601.4	40°	9925.9	9129.0	4524.5	1679.1	907.1	763.7	692.1	642.4	609.3	595.6
11687.7	42.5°	10926.7	10074.7	5012.6	1806.0	879.5	714.1	639.7	584.5	562.5	557.0
12920.1	45°	12076.5	11114.2	5759.8	1941.1	835.4	667.2	587.3	545.9	529.4	526.6
14260.1	47.5°	13383.4	12255.7	6625.5	2109.2	791.3	623.1	545.9	518.4	504.6	499.0
15658.0	50°	14679.2	13405.4	7516.1	2203.0	755.5	581.8	512.8	490.8	479.7	477.0
17135.9	52.5°	16035.8	14588.2	8235.7	2114.8	725.1	548.7	485.3	468.7	457.7	454.9
18497.9	55°	17328.9	15545.0	8359.8	1794.9	664.5	515.6	454.9	446.7	432.9	432.9
19879.3	57.5°	18442.8	16024.7	7483.0	1317.9	603.8	466.0	424.6	416.3	405.3	402.5
21125.5	60°	19465.7	15886.9	5776.3	887.8	537.7	416.3	386.0	380.5	369.5	355.7
22209.1	62.5°	20041.9	15280.3	3951.0	579.0	471.5	363.9	341.9	339.1	314.3	286.7
23011.4	65°	20259.8	14034.1	2464.9	421.8	394.3	311.6	295.0	289.5	253.7	223.3
23466.4	67.5°	20069.5	11982.7	1243.5	333.6	311.6	259.2	242.6	242.6	217.8	190.2
23438.8	70°	19308.5	8982.9	523.9	267.4	239.9	198.5	198.5	209.5	184.7	154.4
22222.9	72.5°	17657.0	6043.7	278.5	204.0	179.2	140.6	162.7	170.9	146.1	115.8
18189.1	75°	14036.8	3686.4	193.0	151.6	113.0	99.3	124.1	129.6	99.3	77.2
12470.7	77.5°	9600.5	2117.5	129.6	96.5	71.7	57.9	85.5	80.0	52.4	35.8
4808.5	80°	4215.7	882.3	74.4	44.1	27.6	22.1	30.3	22.1	16.5	11.0
659.0	82.5°	493.5	206.8	27.6	16.5	11.0	5.5	2.8	0.0	0.0	0.0
201.3	85°	102.0	24.8	13.8	5.5	2.8	0.0	0.0	0.0	0.0	0.0
35.8	87.5°	19.3	5.5	2.8	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>
4946.4
4805.8
4593.5
3956.6
2878.5
1861.1
1491.6
1359.3
1232.5
1108.4
1000.9
926.4
846.5
774.8
705.8
645.2
592.8
557.0
523.9
499.0
477.0
454.9
430.1
399.8
352.9
281.2
220.6
187.5
151.6
115.8
74.4
38.6
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