

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: P956943

Luminaire Tested: **GALN-SB9B-940-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956943
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-SB9B-940-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 450mA 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: 30942 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

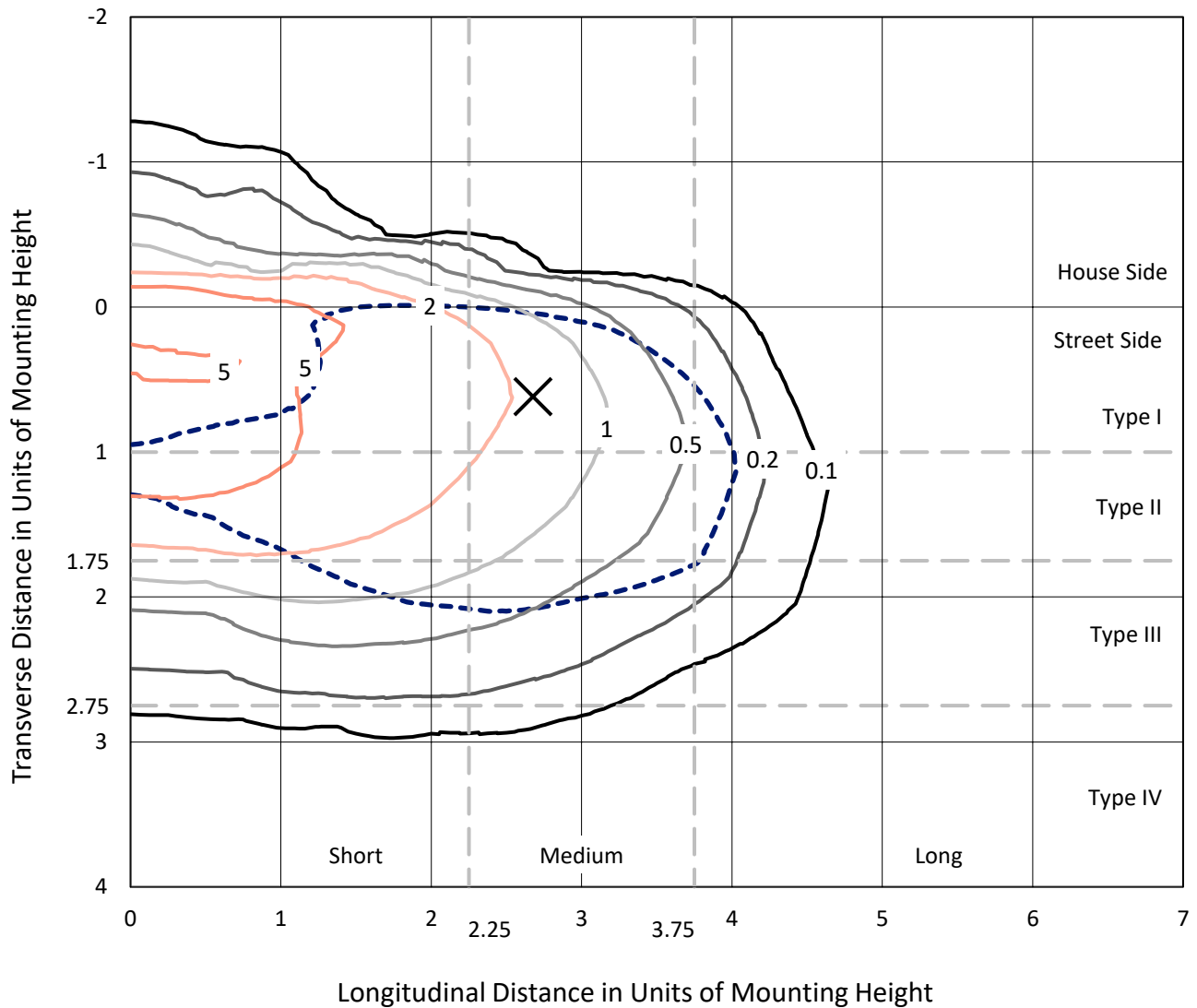
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

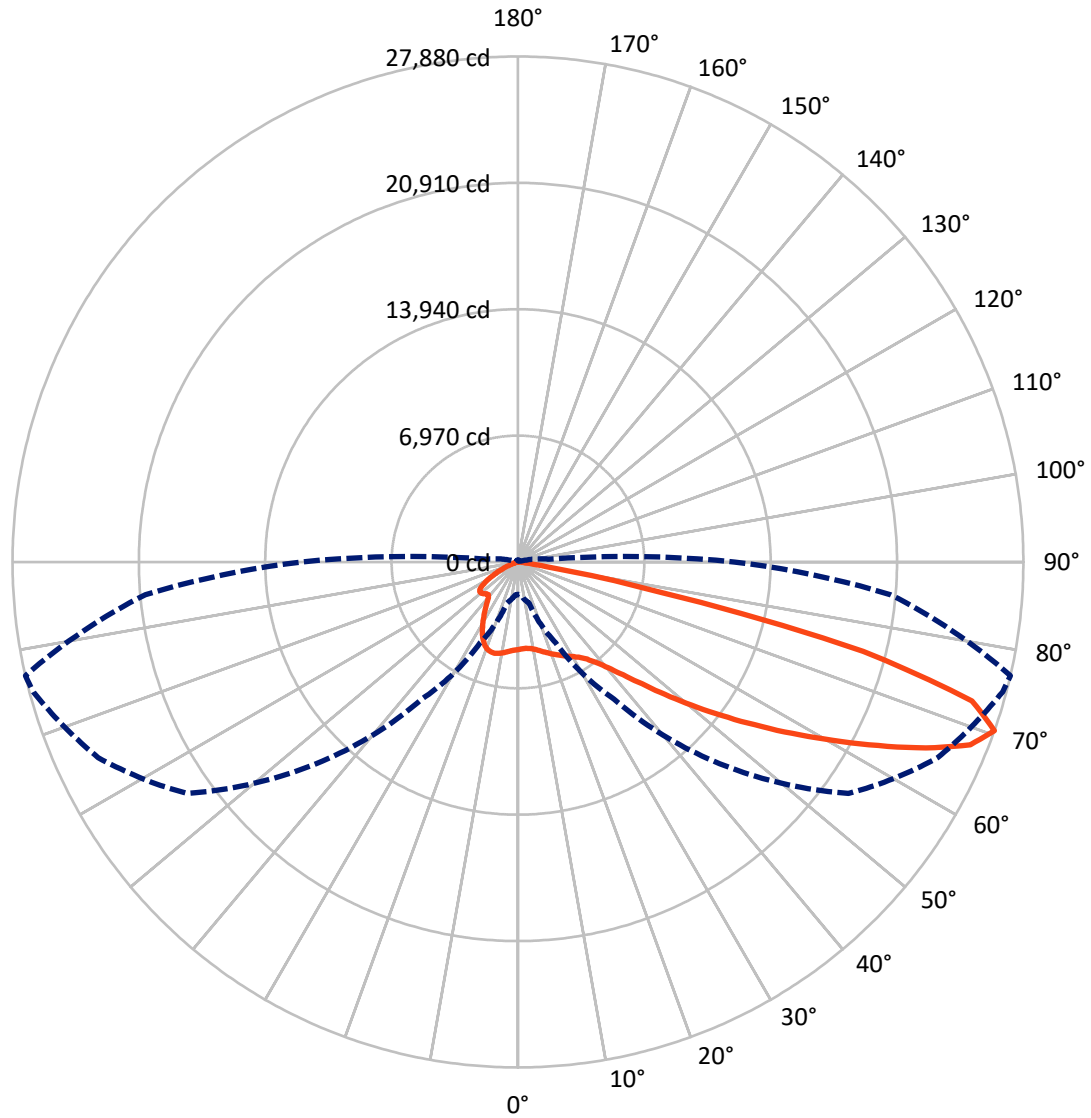
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	3261.7	0.0	3261.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	27680.3	0.0	27680.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	30942.0	0.0	30942.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.0	1.3
10°-20°	987.4	3.2
20°-30°	1527.3	4.9
30°-40°	2771.4	9.0
40°-50°	5231.3	16.9
50°-60°	7558.7	24.4
60°-70°	8046.1	26.0
70°-80°	4263.9	13.8
80°-90°	140.0	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°	30942.0	100.0
0°-180°	30942.0	100.0

Coefficient of Utilization



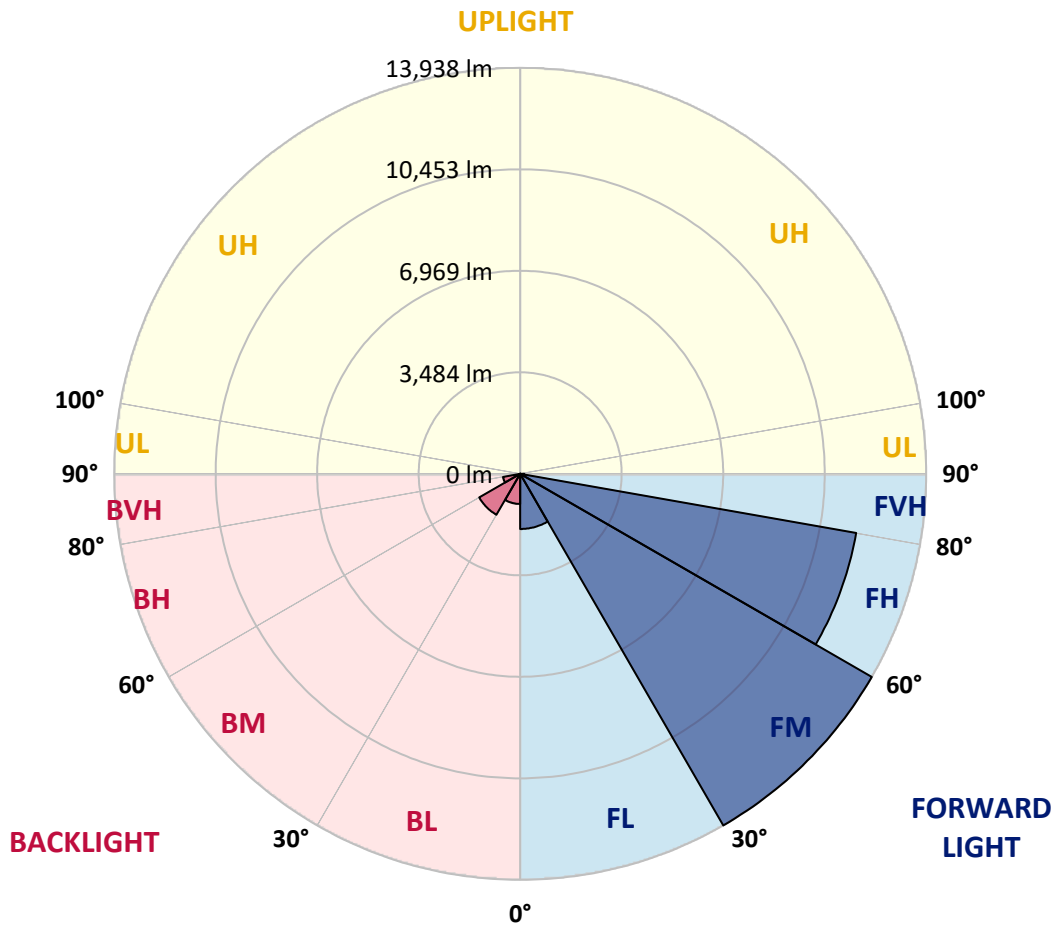
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1894.4	6.1			
FM (30°-60°)	13937.7	45.0			
FH (60°-80°)	11712.0	37.9			G4/12000
FVH (80°-90°)	136.2	0.4			G2/225
BL (0°-30°)	1036.3	3.3	B3/2500		
BM (30°-60°)	1623.7	5.2	B2/2500		
BH (60°-80°)	597.9	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.8	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-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4826.4	4826.4	4826.4	4826.4	4826.4	4826.4	4826.4	4826.4	4826.4	4826.4
2.5°	4531.3	4572.4	4566.5	4593.9	4603.6	4642.7	4681.8	4734.6	4793.2	4791.2
5°	4275.4	4316.4	4326.2	4363.3	4410.2	4470.8	4550.9	4656.4	4765.8	4783.4
7.5°	3972.5	4015.5	4040.9	4115.1	4201.1	4326.2	4457.1	4611.5	4793.2	4818.6
10°	3669.6	3708.7	3741.9	3847.4	3984.2	4169.8	4382.8	4605.6	4849.8	4887.0
12.5°	3482.0	3519.2	3556.3	3648.1	3818.1	4044.8	4334.0	4632.9	4943.6	4996.4
15°	3415.6	3448.8	3478.1	3560.2	3718.5	3976.4	4324.2	4689.6	5062.8	5133.2
17.5°	3425.4	3443.0	3462.5	3525.0	3679.4	3945.1	4341.8	4787.3	5203.5	5266.0
20°	3482.0	3491.8	3493.8	3536.7	3673.5	3941.2	4377.0	4881.1	5336.4	5420.4
22.5°	3554.3	3558.2	3554.3	3583.6	3710.7	3970.5	4423.9	4994.4	5484.9	5563.1
25°	3892.4	3818.1	3724.3	3667.7	3773.2	4027.2	4494.2	5146.9	5647.1	5723.3
27.5°	4941.7	4728.7	4392.6	4015.5	3902.1	4109.3	4591.9	5301.2	5811.2	5879.6
30°	6645.6	6366.1	5795.6	4945.6	4316.4	4281.2	4718.9	5455.6	5985.1	6059.4
32.5°	8353.4	8285.0	7626.5	6450.2	5248.5	4664.2	4930.0	5664.7	6215.7	6274.3
35°	10080.7	9942.0	9402.7	8240.0	6684.7	5443.9	5281.7	5938.2	6518.6	6585.0
37.5°	11403.6	11319.6	10985.4	10028.0	8388.5	6647.5	5883.5	6362.2	6958.2	7032.5
40°	12572.1	12533.0	12419.7	11788.5	10293.7	8222.5	6819.5	7018.8	7567.9	7655.8
42.5°	13490.5	13582.3	13646.8	13470.9	12257.5	10020.1	8077.9	7941.1	8417.9	8507.7
45°	14430.3	14461.6	14721.5	14975.5	14207.6	11899.9	9496.5	9021.6	9475.0	9586.4
47.5°	15034.1	15159.2	15616.4	16063.9	15847.0	13764.0	11020.6	10297.6	10700.1	10909.2
50°	15079.1	15315.5	15944.7	16724.3	17040.9	15538.3	12677.6	11751.4	12179.3	12409.9
52.5°	14330.7	14698.0	15673.1	16814.2	17685.7	17040.9	14391.2	13205.2	13754.2	14055.2
55°	10987.4	11468.1	14651.1	16325.7	17711.1	18180.1	16060.0	14719.5	15508.9	15848.9
57.5°	9572.7	9815.0	11518.9	15477.7	17240.2	18639.3	17568.5	16161.6	17418.0	17840.1
60°	7964.5	8283.0	9660.6	14090.3	16601.2	18684.2	18901.1	18021.8	19487.3	19962.1
62.5°	5412.6	5758.5	7128.2	11706.4	15727.8	18662.7	19993.4	19936.7	21787.2	22297.2
65°	3353.1	3570.0	4472.7	9559.0	14506.5	18686.2	21136.5	22262.0	24214.0	24731.8
67.5°	2649.6	2749.3	3220.2	7339.2	12402.1	18158.6	22277.6	24448.5	26498.3	26908.6
70°	1780.1	1840.7	2342.9	4920.2	9226.8	15723.9	22256.1	25546.7	27674.6	27879.7
72.5°	937.9	984.8	1369.8	2278.4	5572.8	11176.9	18760.4	24233.6	26504.1	26195.4
75°	469.0	547.1	922.3	1156.8	2380.0	6233.3	11649.8	19106.3	20861.0	19665.1
77.5°	355.6	429.9	762.1	762.1	828.5	2098.6	4933.9	10420.7	9611.8	8003.6
80°	226.7	293.1	666.3	576.4	345.9	533.4	1285.7	2919.3	2041.9	1553.4
82.5°	132.9	191.5	554.9	381.0	193.4	197.4	363.4	621.4	529.5	412.3
85°	52.8	125.1	381.0	150.5	76.2	48.9	109.4	132.9	109.4	82.1
87.5°	0.0	29.3	66.4	0.0	5.9	3.9	7.8	9.8	9.8	7.8
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°
4826.4	0°	4826.4	4826.4	4826.4	4826.4	4826.4	4826.4	4826.4	4826.4	4826.4	4826.4
4830.3	2.5°	4847.9	4851.8	4863.5	4865.5	4838.1	4802.9	4789.3	4783.4	4760.0	4758.0
4861.6	5°	4906.5	4924.1	4906.5	4855.7	4734.6	4564.6	4435.6	4330.1	4234.3	4205.0
4969.0	7.5°	5023.7	5041.3	4988.6	4789.3	4484.4	4146.4	3841.6	3626.6	3433.2	3360.9
5100.0	10°	5191.8	5215.2	5049.1	4646.6	4107.3	3564.1	3048.2	2684.8	2401.5	2286.2
5277.8	12.5°	5402.8	5412.6	5082.4	4429.7	3616.9	2841.1	2110.3	1721.5	1469.4	1375.6
5492.7	15°	5635.4	5621.7	5086.3	4134.7	2948.6	2008.7	1377.6	1131.4	1029.8	998.5
5707.6	17.5°	5879.6	5822.9	5008.1	3708.7	2215.8	1373.7	1021.9	963.3	945.7	937.9
5920.6	20°	6119.9	5992.9	4865.5	3151.8	1590.6	1025.9	928.2	910.6	900.8	896.9
6135.6	22.5°	6338.8	6121.9	4621.2	2505.0	1154.8	906.7	877.3	861.7	844.1	836.3
6344.7	25°	6551.8	6196.2	4277.3	1901.2	924.2	848.0	824.6	795.3	771.8	762.1
6569.4	27.5°	6758.9	6243.0	3847.4	1406.9	824.6	793.3	750.3	709.3	691.7	687.8
6809.7	30°	6979.7	6258.7	3358.9	1049.3	764.0	724.9	662.4	615.5	605.7	607.7
7134.1	32.5°	7249.4	6282.1	2866.5	859.8	713.2	642.9	568.6	519.8	511.9	519.8
7606.9	35°	7571.8	6329.0	2391.7	791.4	668.3	558.8	478.7	437.7	429.9	435.7
8212.7	37.5°	8009.5	6405.2	1948.1	777.7	631.1	488.5	402.5	369.3	369.3	371.3
8955.2	40°	8591.8	6608.4	1551.5	767.9	611.6	435.7	340.0	326.3	332.2	336.1
9900.9	42.5°	9301.1	7040.3	1283.8	756.2	590.1	412.3	308.7	302.9	312.6	316.5
11034.3	45°	10096.3	7587.4	1190.0	736.7	570.6	427.9	295.1	287.2	299.0	300.9
12304.4	47.5°	10919.0	8122.8	1178.3	715.2	551.0	451.4	291.1	273.6	287.2	289.2
13660.5	50°	11751.4	8472.6	1190.0	681.9	519.8	451.4	293.1	259.9	271.6	277.5
15067.3	52.5°	12589.7	8632.8	1182.2	609.6	465.1	424.0	293.1	248.2	259.9	263.8
16587.6	55°	13402.5	8601.5	1063.0	502.2	394.7	375.2	285.3	238.4	246.2	248.2
18023.7	57.5°	14045.4	8165.8	842.2	390.8	320.5	312.6	259.9	226.7	232.5	230.6
19340.7	60°	14381.5	7208.3	601.8	300.9	252.1	246.2	228.6	211.0	214.9	205.2
20456.5	62.5°	14385.4	5942.1	402.5	238.4	201.3	195.4	195.4	189.5	185.6	166.1
21320.2	65°	14078.6	4537.2	267.7	189.5	162.2	152.4	164.1	162.2	148.5	121.1
21583.9	67.5°	13383.0	2974.0	203.2	148.5	125.1	119.2	130.9	136.8	127.0	101.6
20622.6	70°	11952.7	1731.2	168.0	115.3	93.8	87.9	105.5	117.2	105.5	82.1
17627.1	72.5°	9928.3	934.0	136.8	86.0	64.5	58.6	84.0	95.7	84.0	60.6
11309.8	75°	6442.4	500.2	105.5	56.7	33.2	37.1	62.5	70.3	58.6	39.1
3319.9	77.5°	2163.1	220.8	66.4	27.4	15.6	15.6	37.1	43.0	27.4	13.7
603.8	80°	482.6	91.8	27.4	11.7	5.9	5.9	7.8	7.8	3.9	0.0
185.6	82.5°	158.3	37.1	11.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0
46.9	85°	60.6	13.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.6	87.5°	23.4	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>
4826.4
4761.9
4187.4
3331.6
2237.3
1346.3
998.5
936.0
893.0
834.4
758.2
683.9
607.7
517.8
433.8
369.3
336.1
316.5
302.9
291.1
279.4
263.8
248.2
230.6
203.2
160.2
117.2
99.7
78.2
58.6
35.2
11.7
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