

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: P957300

Luminaire Tested: **GALN-SB9C-940-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957300
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-SB9C-940-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 615mA 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: 41152 lumens
Efficiency: N/A
Efficacy: 91.5 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

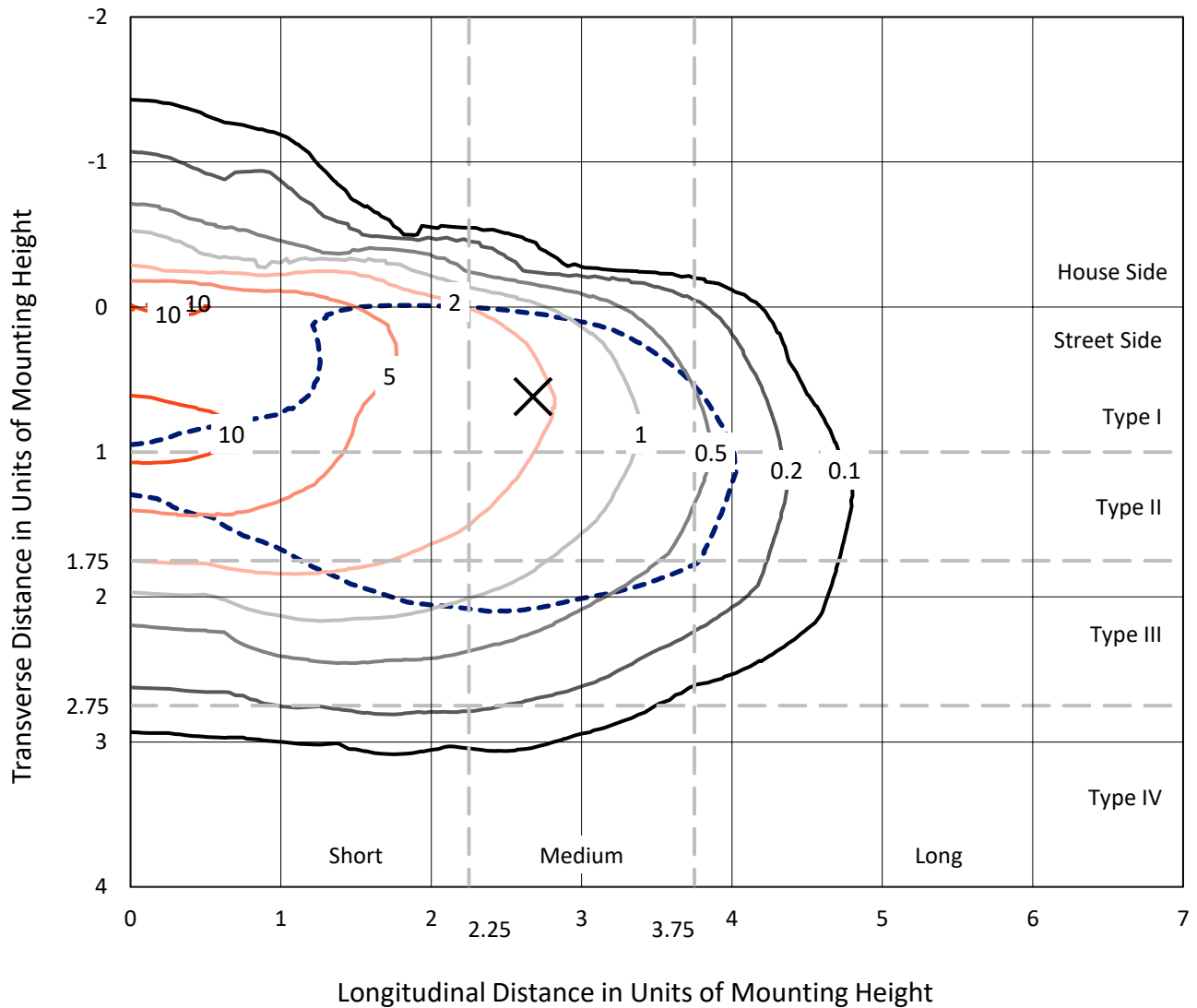
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

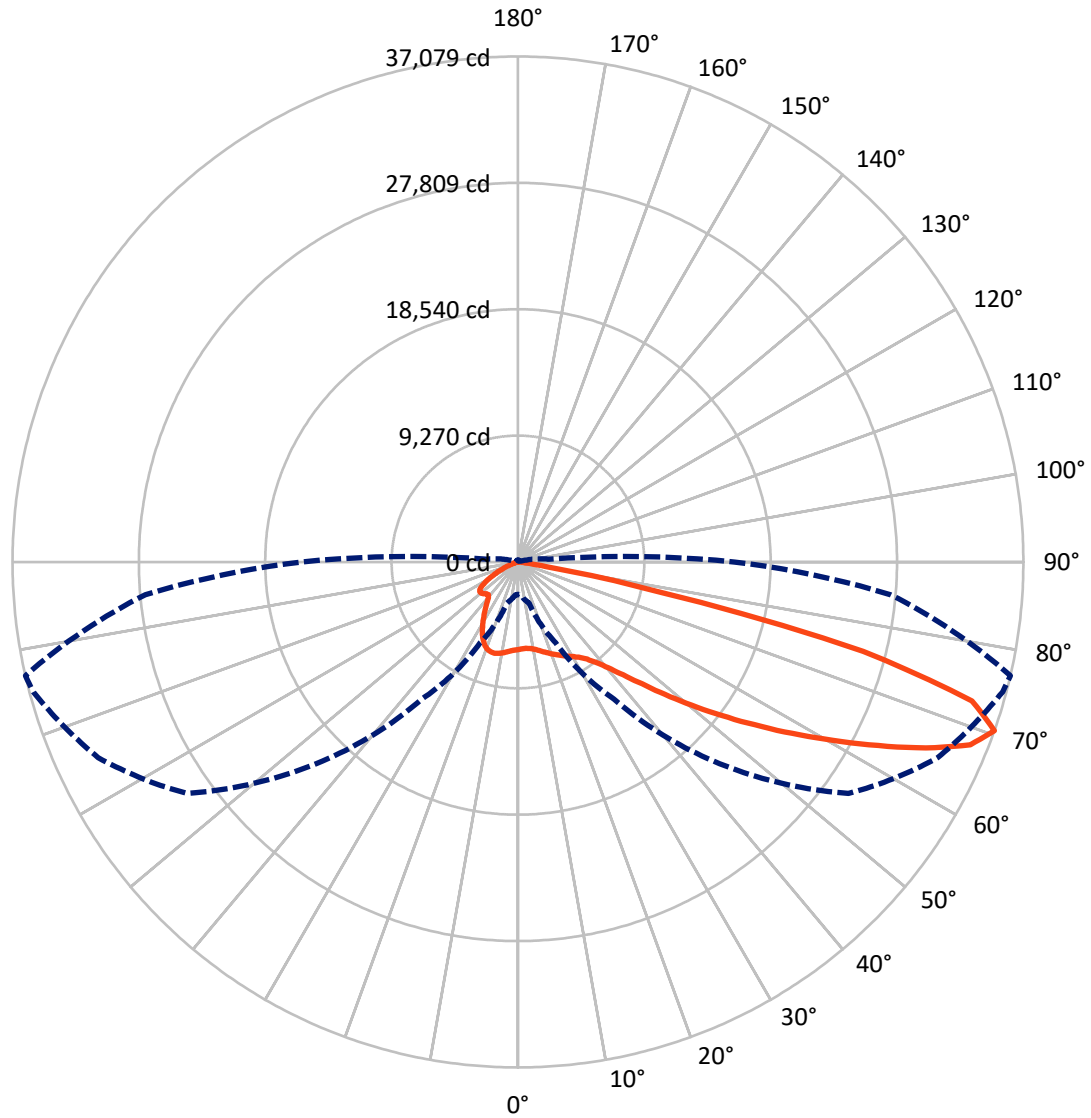
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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	4338.0	0.0	4338.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	36814.0	0.0	36814.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	41152.0	0.0	41152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.2	1.3
10°-20°	1313.3	3.2
20°-30°	2031.3	4.9
30°-40°	3685.8	9.0
40°-50°	6957.4	16.9
50°-60°	10052.9	24.4
60°-70°	10701.1	26.0
70°-80°	5670.8	13.8
80°-90°	186.2	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°	41152.0	100.0
0°-180°	41152.0	100.0

Coefficient of Utilization



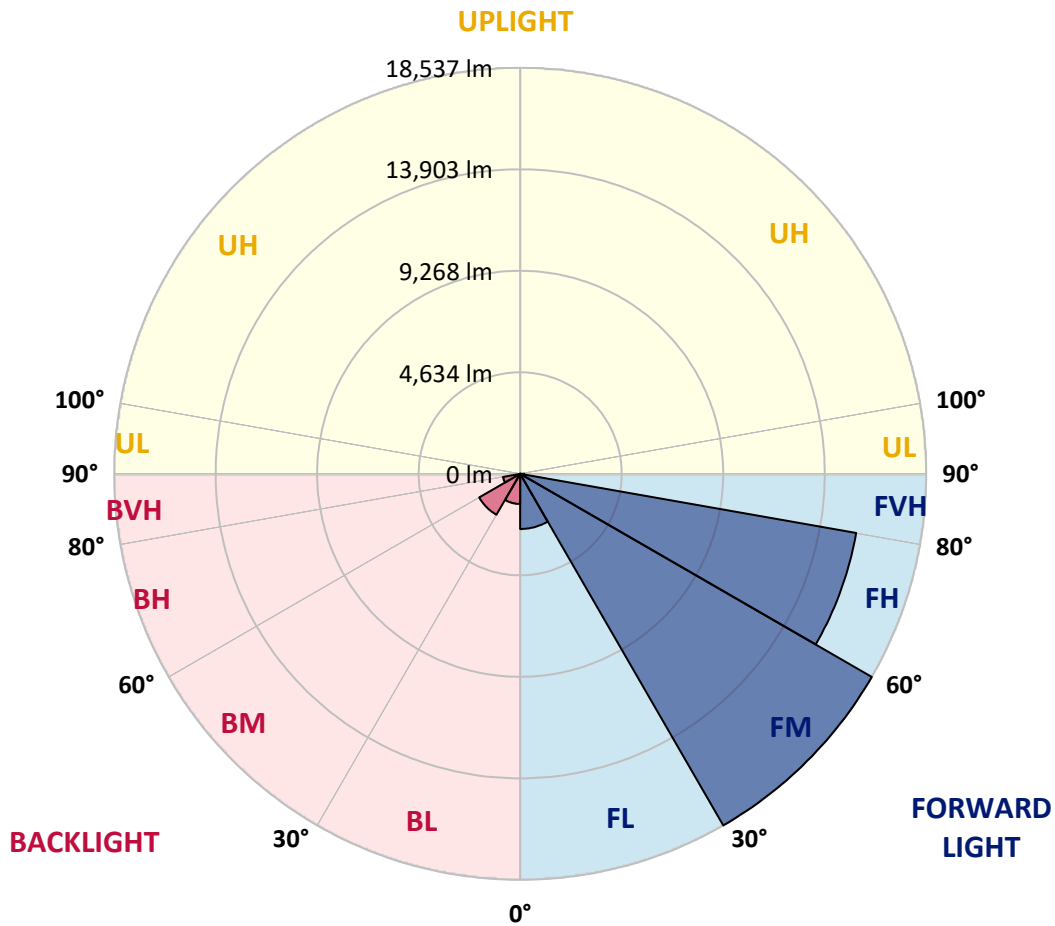
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2519.5	6.1			
FM (30°-60°)	18536.7	45.0			
FH (60°-80°)	15576.6	37.9			G5
FVH (80°-90°)	181.2	0.4			G2/225
BL (0°-30°)	1378.3	3.3	B3/2500		
BM (30°-60°)	2159.5	5.2	B2/2500		
BH (60°-80°)	795.3	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.0	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°	6419.0	6419.0	6419.0	6419.0	6419.0	6419.0	6419.0	6419.0	6419.0	6419.0
2.5°	6026.6	6081.1	6073.3	6109.7	6122.7	6174.7	6226.7	6296.8	6374.8	6372.2
5°	5686.1	5740.7	5753.7	5803.1	5865.4	5946.0	6052.5	6192.9	6338.4	6361.8
7.5°	5283.3	5340.5	5374.3	5473.0	5587.4	5753.7	5927.8	6133.1	6374.8	6408.6
10°	4880.5	4932.5	4976.6	5117.0	5298.9	5545.8	5829.0	6125.3	6450.2	6499.5
12.5°	4631.0	4680.4	4729.8	4851.9	5078.0	5379.5	5764.1	6161.7	6574.9	6645.1
15°	4542.7	4586.8	4625.8	4735.0	4945.5	5288.5	5751.1	6237.1	6733.4	6827.0
17.5°	4555.6	4579.0	4605.0	4688.2	4893.5	5246.9	5774.5	6367.0	6920.5	7003.7
20°	4631.0	4644.0	4646.6	4703.8	4885.7	5241.7	5821.3	6491.7	7097.2	7209.0
22.5°	4727.2	4732.4	4727.2	4766.1	4935.1	5280.7	5883.6	6642.5	7294.8	7398.7
25°	5176.8	5078.0	4953.3	4877.9	5018.2	5356.1	5977.2	6845.2	7510.5	7611.8
27.5°	6572.3	6289.0	5842.0	5340.5	5189.7	5465.2	6107.1	7050.5	7728.8	7819.7
30°	8838.4	8466.8	7708.0	6577.5	5740.7	5693.9	6276.0	7255.8	7960.0	8058.8
32.5°	11109.8	11018.8	10143.0	8578.5	6980.3	6203.3	6556.7	7533.8	8266.7	8344.7
35°	13407.1	13222.6	12505.3	10959.0	8890.4	7240.2	7024.5	7897.7	8669.5	8757.9
37.5°	15166.4	15054.7	14610.3	13336.9	11156.5	8841.0	7824.9	8461.6	9254.2	9353.0
40°	16720.5	16668.5	16517.8	15678.4	13690.3	10935.6	9069.7	9334.8	10065.0	10182.0
42.5°	17941.9	18064.1	18149.8	17915.9	16302.1	13326.5	10743.3	10561.4	11195.5	11315.1
45°	19191.9	19233.5	19579.2	19917.0	18895.7	15826.5	12630.0	11998.5	12601.4	12749.6
47.5°	19995.0	20161.3	20769.4	21364.5	21076.0	18305.8	14657.1	13695.5	14230.9	14508.9
50°	20054.7	20369.2	21206.0	22242.9	22663.9	20665.4	16860.8	15629.0	16198.2	16504.8
52.5°	19059.4	19548.0	20844.8	22362.4	23521.5	22663.9	19140.0	17562.5	18292.8	18693.0
55°	14612.9	15252.2	19485.6	21712.7	23555.3	24179.0	21359.3	19576.6	20626.5	21078.6
57.5°	12731.4	13053.6	15319.8	20584.9	22929.0	24789.7	23365.6	21494.4	23165.5	23726.8
60°	10592.6	11016.2	12848.3	18739.8	22079.2	24849.5	25137.9	23968.5	25917.6	26549.1
62.5°	7198.6	7658.6	9480.3	15569.2	20917.5	24820.9	26590.6	26515.3	28976.3	29654.6
65°	4459.5	4748.0	5948.6	12713.2	19293.3	24852.1	28110.9	29607.8	32204.0	32892.7
67.5°	3523.9	3656.5	4282.8	9761.0	16494.4	24150.4	29628.6	32515.8	35242.0	35787.7
70°	2367.5	2448.0	3115.9	6543.7	12271.4	20912.3	29600.0	33976.4	36806.4	37079.3
72.5°	1247.4	1309.8	1821.7	3030.2	7411.7	14865.0	24950.8	32230.0	35249.8	34839.1
75°	623.7	727.7	1226.6	1538.5	3165.3	8290.1	15493.9	25410.8	27744.5	26154.0
77.5°	473.0	571.7	1013.5	1013.5	1101.9	2791.1	6561.9	13859.3	12783.4	10644.6
80°	301.5	389.8	886.2	766.6	460.0	709.5	1710.0	3882.6	2715.7	2066.0
82.5°	176.7	254.7	738.1	506.8	257.3	262.5	483.4	826.4	704.3	548.3
85°	70.2	166.3	506.8	200.1	101.4	65.0	145.5	176.7	145.5	109.1
87.5°	0.0	39.0	88.4	0.0	7.8	5.2	10.4	13.0	13.0	10.4
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°
6419.0	0°	6419.0	6419.0	6419.0	6419.0	6419.0	6419.0	6419.0	6419.0	6419.0	6419.0
6424.2	2.5°	6447.6	6452.8	6468.3	6470.9	6434.6	6387.8	6369.6	6361.8	6330.6	6328.0
6465.7	5°	6525.5	6548.9	6525.5	6458.0	6296.8	6070.7	5899.2	5758.9	5631.5	5592.6
6608.7	7.5°	6681.4	6704.8	6634.7	6369.6	5964.2	5514.6	5109.2	4823.3	4566.0	4469.9
6782.8	10°	6904.9	6936.1	6715.2	6179.9	5462.6	4740.2	4054.1	3570.7	3193.9	3040.6
7019.3	12.5°	7185.6	7198.6	6759.4	5891.4	4810.3	3778.6	2806.7	2289.5	1954.3	1829.5
7305.2	15°	7494.9	7476.7	6764.6	5499.0	3921.5	2671.5	1832.1	1504.7	1369.6	1328.0
7591.0	17.5°	7819.7	7744.3	6660.7	4932.5	2947.0	1826.9	1359.2	1281.2	1257.8	1247.4
7874.3	20°	8139.4	7970.4	6470.9	4191.8	2115.4	1364.4	1234.4	1211.0	1198.0	1192.8
8160.1	22.5°	8430.4	8142.0	6146.1	3331.6	1535.9	1205.8	1166.8	1146.1	1122.7	1112.3
8438.2	25°	8713.7	8240.7	5688.7	2528.6	1229.2	1127.9	1096.7	1057.7	1026.5	1013.5
8737.1	27.5°	8989.2	8303.1	5117.0	1871.1	1096.7	1055.1	997.9	943.4	920.0	914.8
9056.7	30°	9282.8	8323.9	4467.3	1395.5	1016.1	964.1	881.0	818.6	805.6	808.2
9488.1	32.5°	9641.4	8355.1	3812.4	1143.5	948.6	855.0	756.2	691.3	680.9	691.3
10117.0	35°	10070.2	8417.4	3180.9	1052.5	888.8	743.2	636.7	582.1	571.7	579.5
10922.6	37.5°	10652.4	8518.8	2591.0	1034.3	839.4	649.7	535.3	491.2	491.2	493.8
11910.2	40°	11426.8	8789.0	2063.4	1021.3	813.4	579.5	452.2	434.0	441.8	447.0
13168.0	42.5°	12370.2	9363.4	1707.4	1005.7	784.8	548.3	410.6	402.8	415.8	421.0
14675.3	45°	13427.9	10091.0	1582.7	979.7	758.8	569.1	392.4	382.0	397.6	400.2
16364.5	47.5°	14521.9	10803.1	1567.1	951.2	732.9	600.3	387.2	363.8	382.0	384.6
18168.0	50°	15629.0	11268.3	1582.7	907.0	691.3	600.3	389.8	345.6	361.2	369.0
20039.1	52.5°	16743.9	11481.4	1572.3	810.8	618.5	563.9	389.8	330.0	345.6	350.8
22061.0	55°	17825.0	11439.8	1413.7	667.9	525.0	499.0	379.4	317.1	327.4	330.0
23971.1	57.5°	18680.0	10860.3	1120.1	519.8	426.2	415.8	345.6	301.5	309.3	306.7
25722.7	60°	19127.0	9586.9	800.4	400.2	335.2	327.4	304.1	280.7	285.9	272.9
27206.6	62.5°	19132.2	7902.9	535.3	317.1	267.7	259.9	259.9	252.1	246.9	220.9
28355.2	65°	18724.2	6034.4	356.0	252.1	215.7	202.7	218.3	215.7	197.5	161.1
28706.0	67.5°	17799.0	3955.3	270.3	197.5	166.3	158.5	174.1	181.9	168.9	135.1
27427.4	70°	15896.7	2302.5	223.5	153.3	124.7	116.9	140.3	155.9	140.3	109.1
23443.5	72.5°	13204.4	1242.2	181.9	114.3	85.8	78.0	111.7	127.3	111.7	80.6
15041.7	75°	8568.2	665.3	140.3	75.4	44.2	49.4	83.2	93.6	78.0	52.0
4415.3	77.5°	2876.8	293.7	88.4	36.4	20.8	20.8	49.4	57.2	36.4	18.2
803.0	80°	641.9	122.1	36.4	15.6	7.8	7.8	10.4	10.4	5.2	0.0
246.9	82.5°	210.5	49.4	15.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0
62.4	85°	80.6	18.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.8	87.5°	31.2	2.6	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>
6419.0
6333.2
5569.2
4430.9
2975.6
1790.6
1328.0
1244.8
1187.6
1109.7
1008.3
909.6
808.2
688.7
576.9
491.2
447.0
421.0
402.8
387.2
371.6
350.8
330.0
306.7
270.3
213.1
155.9
132.5
<i>104.0</i>
78.0
46.8
15.6
0.0
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