

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: P957657

Luminaire Tested: **GALN-SB9D-940-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957657  
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-SB9D-940-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

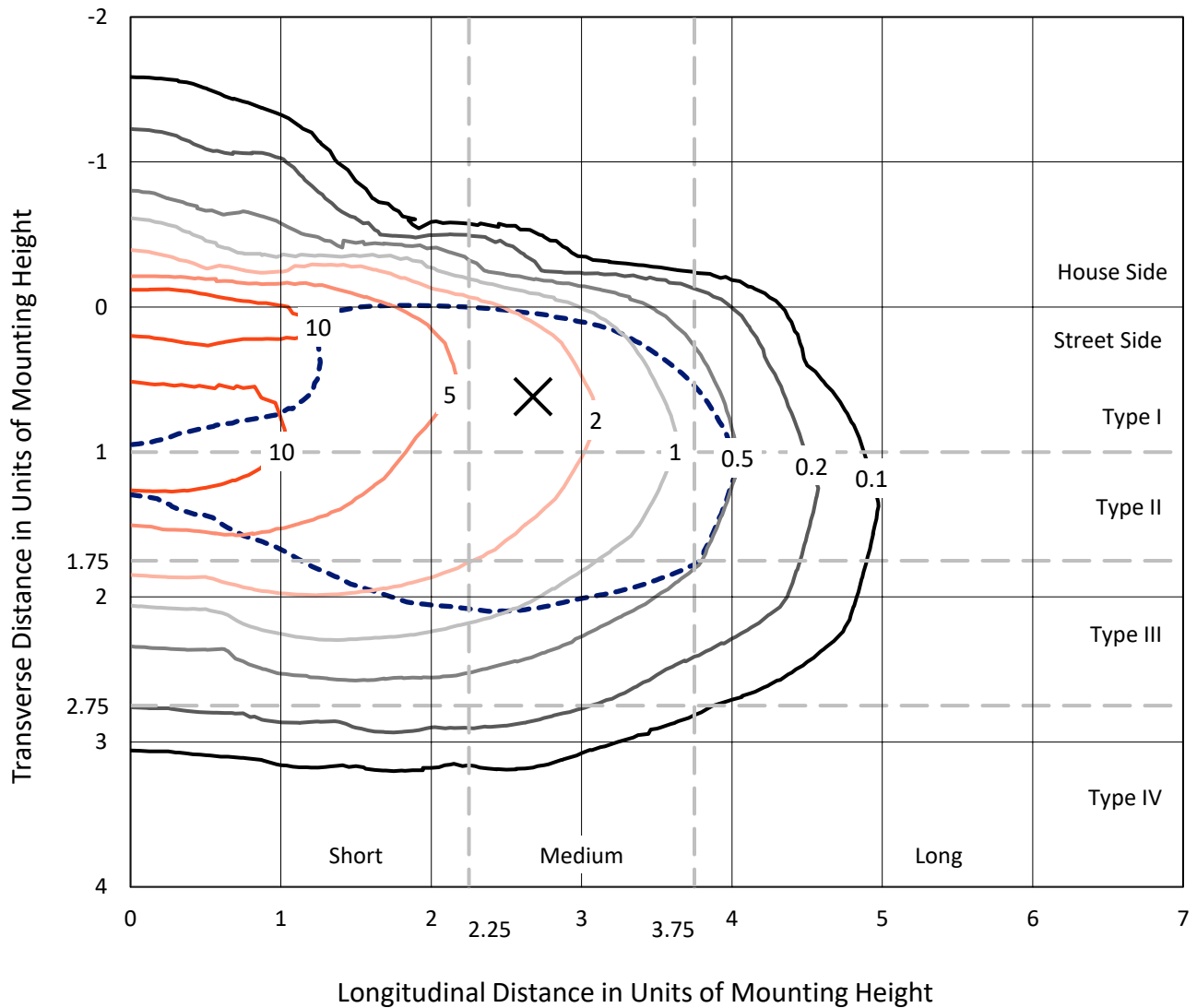
Lumens per Lamp: N/A  
Luminaire Lumens: 55917 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

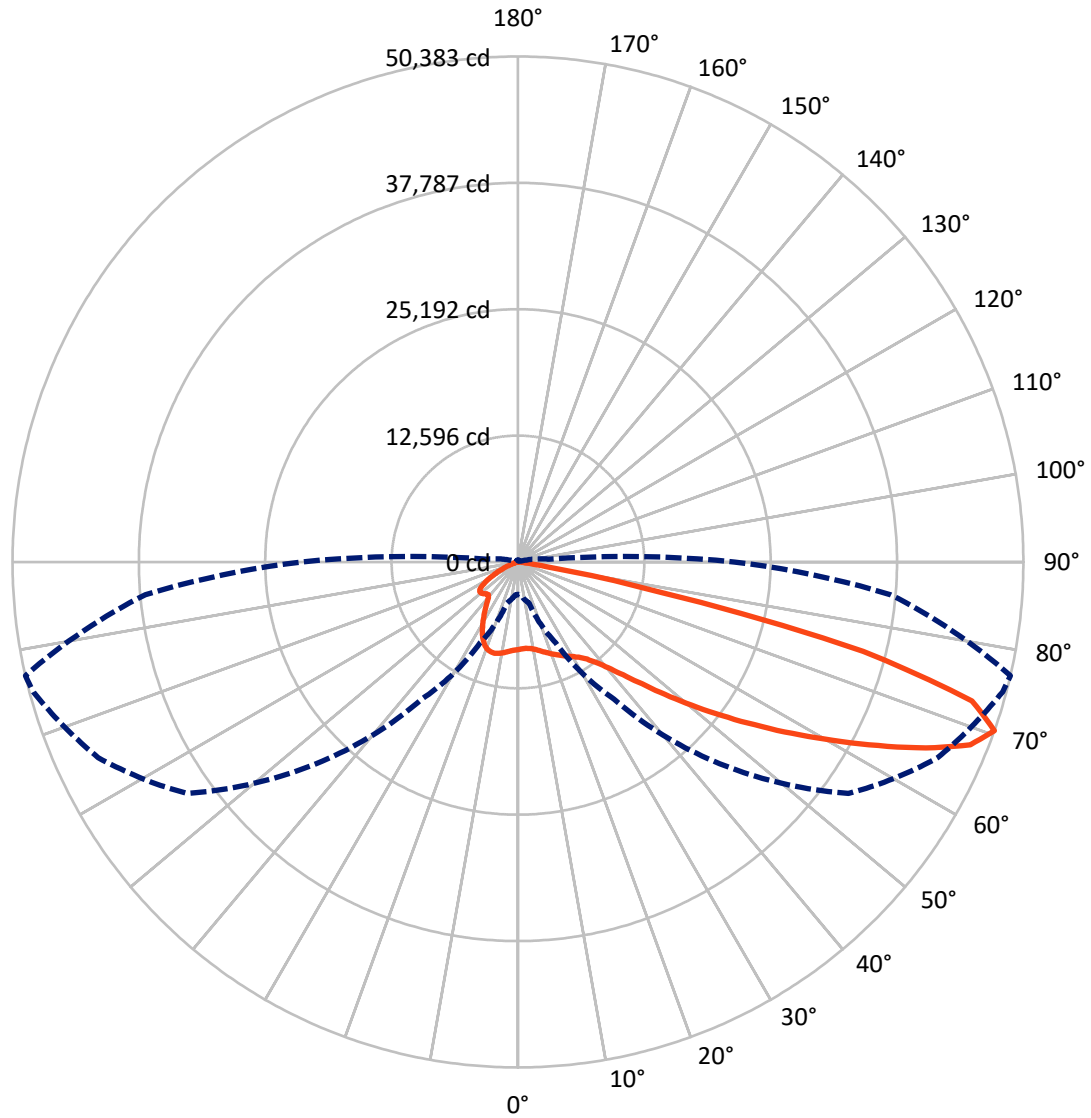
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 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
<b>House Side</b>	Lumens	5894.4	0.0	5894.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	50022.6	0.0	50022.6
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	55917.0	0.0	55917.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	751.7	1.3
10°-20°	1784.5	3.2
20°-30°	2760.1	4.9
30°-40°	5008.3	9.0
40°-50°	9453.7	16.9
50°-60°	13659.8	24.4
60°-70°	14540.5	26.0
70°-80°	7705.5	13.8
80°-90°	253.0	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°	55917.0	100.0
0°-180°	55917.0	100.0

**Coefficient of Utilization**



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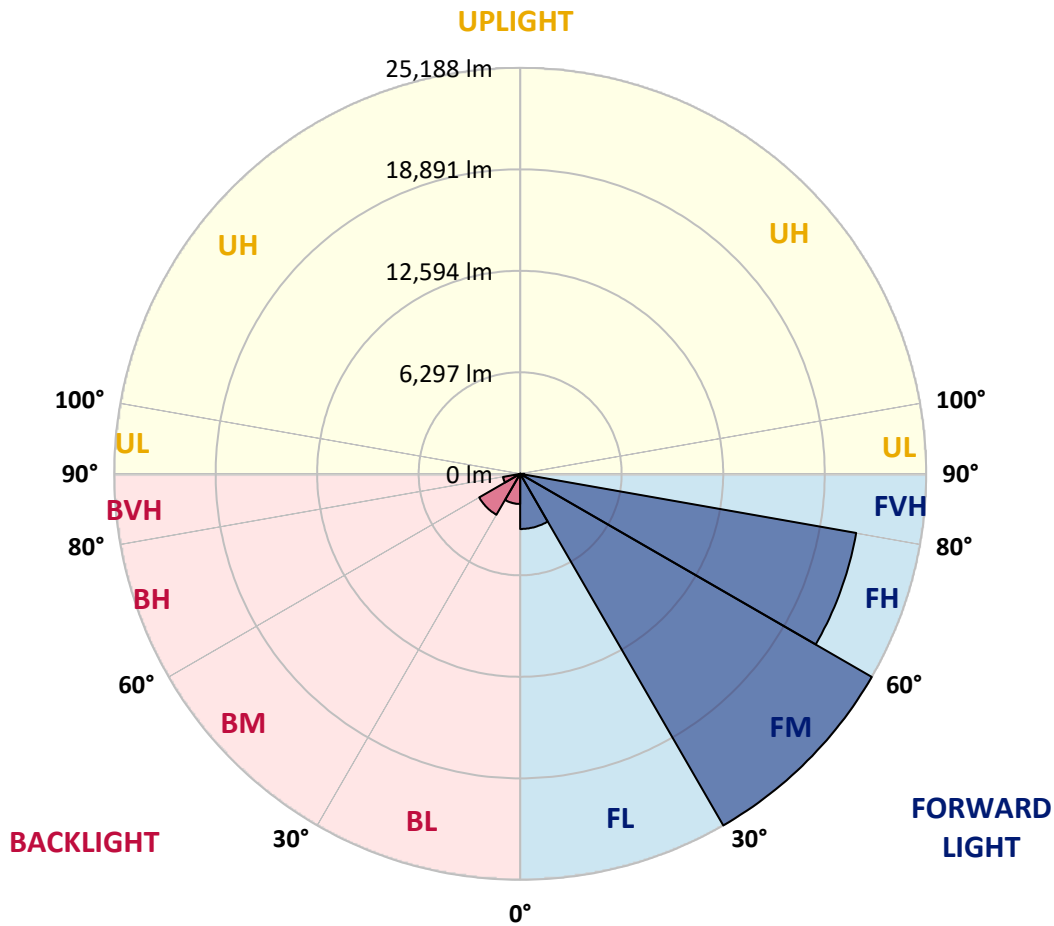
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3423.4	6.1			
FM (30°-60°)	25187.5	45.0			
FH (60°-80°)	21165.4	37.9			G5
FVH (80°-90°)	246.2	0.4			G3/500
BL (0°-30°)	1872.8	3.3	B3/2500		
BM (30°-60°)	2934.3	5.2	B3/5000		
BH (60°-80°)	1080.6	1.9	B3/2500		G3/2500
BVH (80°-90°)	6.8	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-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	8722.0	8722.0	8722.0	8722.0	8722.0	8722.0	8722.0	8722.0	8722.0	8722.0
2.5°	8188.8	8263.0	8252.4	8301.8	8319.5	8390.1	8460.7	8556.1	8662.0	8658.5
5°	7726.2	7800.4	7818.1	7885.1	7969.9	8079.4	8224.1	8414.8	8612.6	8644.4
7.5°	7178.9	7256.6	7302.5	7436.7	7592.1	7818.1	8054.6	8333.6	8662.0	8707.9
10°	6631.6	6702.2	6762.2	6952.9	7200.1	7535.6	7920.5	8323.0	8764.4	8831.5
12.5°	6292.6	6359.7	6426.8	6592.7	6899.9	7309.6	7832.2	8372.5	8933.9	9029.3
15°	6172.5	6232.6	6285.5	6433.8	6719.9	7186.0	7814.5	8474.9	9149.3	9276.4
17.5°	6190.2	6222.0	6257.3	6370.3	6649.2	7129.5	7846.3	8651.4	9403.6	9516.6
20°	6292.6	6310.2	6313.8	6391.5	6638.6	7122.4	7909.9	8820.9	9643.7	9795.5
22.5°	6423.2	6430.3	6423.2	6476.2	6705.7	7175.4	7994.6	9025.7	9912.1	10053.3
25°	7034.1	6899.9	6730.5	6628.0	6818.7	7277.8	8121.7	9301.2	10205.1	10342.9
27.5°	8930.4	8545.5	7938.1	7256.6	7051.8	7426.1	8298.3	9580.1	10501.8	10625.4
30°	12009.6	11504.6	10473.5	8937.4	7800.4	7736.8	8527.8	9859.1	10816.0	10950.2
32.5°	15095.8	14972.3	13782.2	11656.5	9484.8	8429.0	8909.2	10236.9	11232.7	11338.7
35°	18217.4	17966.7	16992.1	14891.0	12080.2	9837.9	9544.8	10731.3	11780.1	11900.1
37.5°	20608.0	20456.2	19852.4	18122.1	15159.4	12013.1	10632.4	11497.6	12574.6	12708.8
40°	22719.7	22649.1	22444.3	21303.7	18602.3	14859.3	12323.9	12684.0	13676.3	13835.2
42.5°	24379.3	24545.3	24661.8	24344.0	22151.2	18107.9	14597.9	14350.8	15212.4	15374.8
45°	26077.8	26134.3	26604.0	27063.0	25675.3	21505.0	17161.6	16303.5	17122.7	17324.0
47.5°	27169.0	27395.0	28221.3	29029.9	28638.0	24873.7	19915.9	18609.4	19336.8	19714.6
50°	27250.2	27677.5	28814.5	30223.5	30795.5	28080.0	22910.4	21236.6	22009.9	22426.6
52.5°	25897.8	26561.6	28323.7	30385.9	31960.8	30795.5	26007.2	23863.8	24856.1	25399.9
55°	19855.9	20724.6	26476.9	29503.1	32006.7	32854.2	29022.9	26600.5	28027.1	28641.5
57.5°	17299.3	17737.2	20816.4	27970.6	31155.7	33684.0	31748.9	29206.5	31477.0	32239.8
60°	14393.1	14968.7	17458.2	25463.4	30001.0	33765.2	34157.2	32568.2	35216.6	36074.6
62.5°	9781.4	10406.4	12881.8	21155.4	28422.6	33726.4	36131.1	36028.7	39372.8	40294.4
65°	6059.5	6451.5	8082.9	17274.6	26215.6	33768.8	38196.9	40230.9	43758.5	44694.3
67.5°	4788.3	4968.4	5819.4	13263.2	22412.5	32815.4	40259.1	44182.3	47886.5	48628.0
70°	3216.9	3326.4	4233.9	8891.5	16674.3	28415.5	40220.3	46166.8	50012.3	50383.0
72.5°	1695.0	1779.7	2475.4	4117.4	10071.0	20198.4	33903.0	43793.8	47897.1	47339.1
75°	847.5	988.7	1666.7	2090.5	4301.0	11264.5	21053.0	34528.0	37699.0	35537.9
77.5°	642.7	776.9	1377.2	1377.2	1497.2	3792.5	8916.3	18831.8	17369.9	14463.8
80°	409.6	529.7	1204.1	1041.7	625.0	964.0	2323.5	5275.6	3690.1	2807.3
82.5°	240.1	346.1	1002.9	688.6	349.6	356.7	656.8	1122.9	957.0	745.1
85°	95.3	226.0	688.6	271.9	137.7	88.3	197.7	240.1	197.7	148.3
87.5°	0.0	53.0	120.1	0.0	10.6	7.1	14.1	17.7	17.7	14.1
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°
8722.0	0°	8722.0	8722.0	8722.0	8722.0	8722.0	8722.0	8722.0	8722.0	8722.0	8722.0
8729.1	2.5°	8760.9	8767.9	8789.1	8792.7	8743.2	8679.7	8654.9	8644.4	8602.0	8598.5
8785.6	5°	8866.8	8898.6	8866.8	8775.0	8556.1	8248.9	8015.8	7825.1	7652.1	7599.1
8979.8	7.5°	9078.7	9110.5	9015.1	8654.9	8104.1	7493.2	6942.3	6553.9	6204.3	6073.6
9216.4	10°	9382.4	9424.7	9124.6	8397.2	7422.6	6440.9	5508.7	4851.9	4339.8	4131.5
9537.7	12.5°	9763.7	9781.4	9184.6	8005.2	6536.2	5134.4	3813.7	3111.0	2655.5	2486.0
9926.2	15°	10184.0	10159.2	9191.7	7472.0	5328.6	3630.1	2489.5	2044.6	1860.9	1804.4
10314.6	17.5°	10625.4	10522.9	9050.4	6702.2	4004.4	2482.4	1846.8	1740.9	1709.1	1695.0
10699.5	20°	11059.7	10830.2	8792.7	5695.8	2874.4	1853.9	1677.3	1645.5	1627.9	1620.8
11087.9	22.5°	11455.2	11063.2	8351.3	4527.0	2086.9	1638.5	1585.5	1557.3	1525.5	1511.3
11465.8	25°	11840.1	11197.4	7729.8	3435.8	1670.3	1532.5	1490.2	1437.2	1394.8	1377.2
11871.9	27.5°	12214.4	11282.2	6952.9	2542.5	1490.2	1433.7	1356.0	1281.8	1250.0	1243.0
12306.2	30°	12613.4	11310.4	6070.1	1896.2	1380.7	1310.1	1197.1	1112.3	1094.7	1098.2
12892.4	32.5°	13100.7	11352.8	5180.3	1553.7	1288.9	1161.8	1027.6	939.3	925.2	939.3
13746.9	35°	13683.4	11437.5	4322.2	1430.1	1207.7	1009.9	865.1	791.0	776.9	787.5
14841.6	37.5°	14474.4	11575.2	3520.6	1405.4	1140.6	882.8	727.4	667.4	667.4	670.9
16183.4	40°	15526.6	11942.5	2803.8	1387.8	1105.3	787.5	614.4	589.7	600.3	607.4
17892.5	42.5°	16808.5	12722.9	2320.0	1366.6	1066.4	745.1	557.9	547.3	565.0	572.1
19940.6	45°	18245.7	13711.6	2150.5	1331.3	1031.1	773.3	533.2	519.1	540.3	543.8
22235.9	47.5°	19732.3	14679.2	2129.3	1292.4	995.8	815.7	526.1	494.4	519.1	522.6
24686.6	50°	21236.6	15311.2	2150.5	1232.4	939.3	815.7	529.7	469.6	490.8	501.4
27229.0	52.5°	22751.5	15600.8	2136.4	1101.7	840.4	766.3	529.7	448.5	469.6	476.7
29976.3	55°	24220.4	15544.3	1921.0	907.5	713.3	678.0	515.6	430.8	444.9	448.5
32571.7	57.5°	25382.2	14756.8	1521.9	706.2	579.1	565.0	469.6	409.6	420.2	416.7
34951.7	60°	25989.6	13026.6	1087.6	543.8	455.5	444.9	413.1	381.4	388.4	370.8
36968.0	62.5°	25996.6	10738.4	727.4	430.8	363.7	353.1	353.1	342.5	335.5	300.2
38528.8	65°	25442.2	8199.4	483.8	342.5	293.1	275.4	296.6	293.1	268.4	218.9
39005.5	67.5°	24185.1	5374.5	367.2	268.4	226.0	215.4	236.6	247.2	229.5	183.6
37268.2	70°	21600.3	3128.6	303.7	208.3	169.5	158.9	190.7	211.9	190.7	148.3
31854.9	72.5°	17942.0	1687.9	247.2	155.4	116.5	105.9	151.8	173.0	151.8	109.5
20438.5	75°	11642.3	904.0	190.7	102.4	60.0	67.1	113.0	127.1	105.9	70.6
5999.5	77.5°	3909.0	399.0	120.1	49.4	28.2	28.2	67.1	77.7	49.4	24.7
1091.1	80°	872.2	166.0	49.4	21.2	10.6	10.6	14.1	14.1	7.1	0.0
335.5	82.5°	286.0	67.1	21.2	7.1	0.0	0.0	0.0	0.0	0.0	0.0
84.7	85°	109.5	24.7	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28.2	87.5°	42.4	3.5	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°
8722.0
8605.5
7567.3
6020.7
4043.2
2433.0
1804.4
1691.4
1613.8
1507.8
1370.1
1235.9
1098.2
935.8
783.9
667.4
607.4
572.1
547.3
526.1
505.0
476.7
448.5
416.7
367.2
289.6
211.9
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63.6
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