

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: P957489

Luminaire Tested: **GALN-SB9D-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957489
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-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 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: 67101 lumens
Efficiency: N/A
Efficacy: 102.0 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

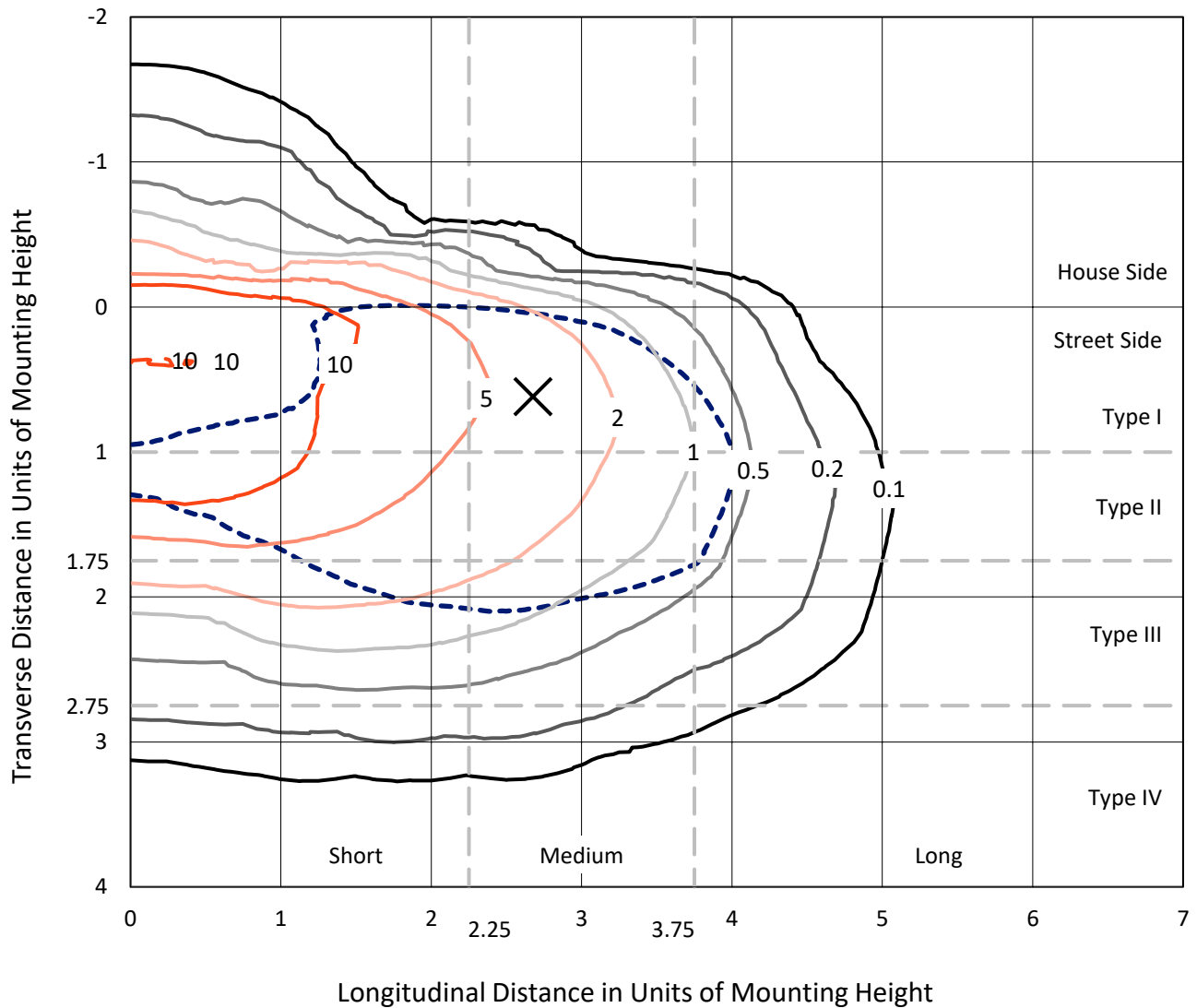
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

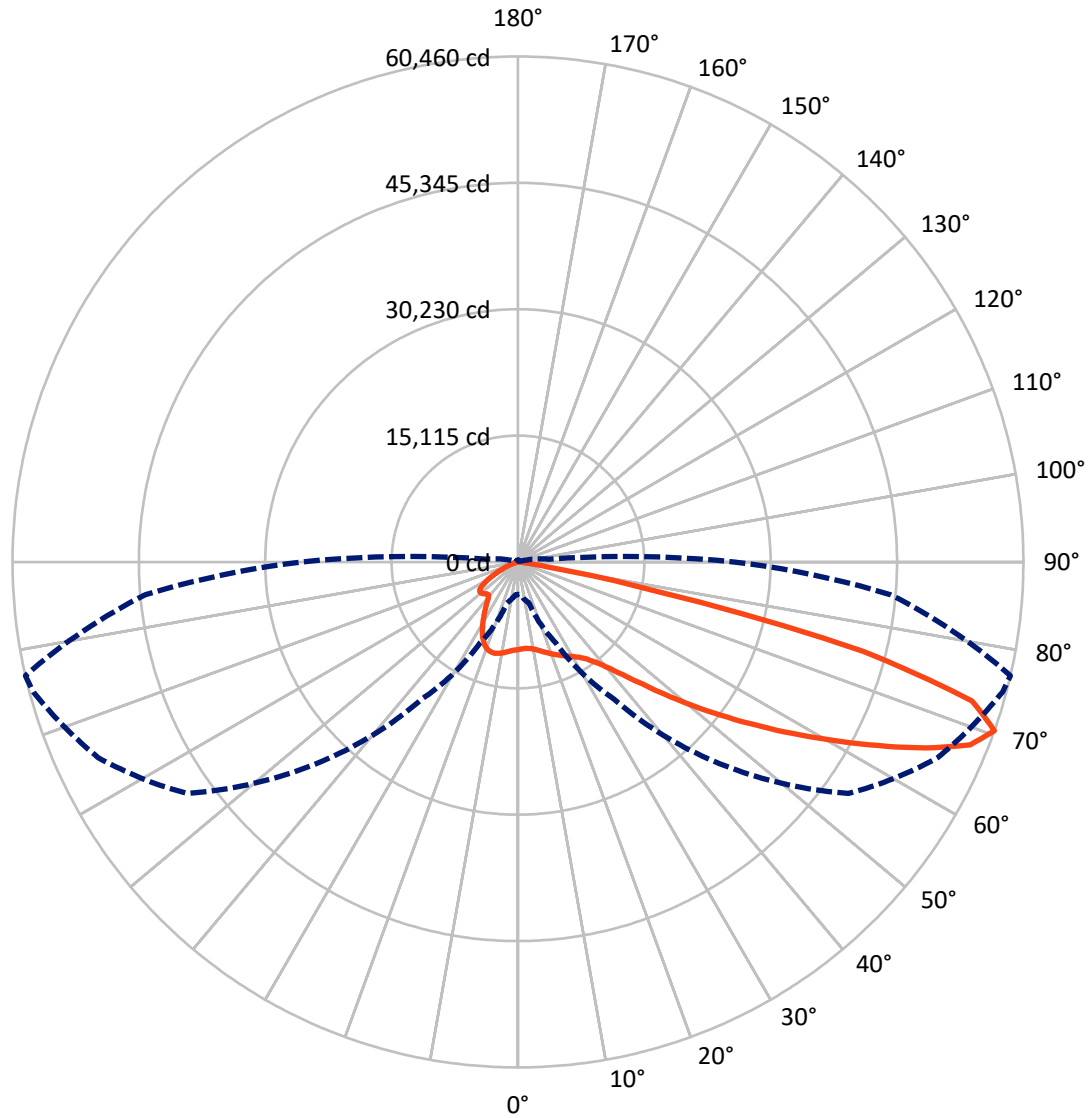
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 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	7073.4	0.0	7073.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	60027.6	0.0	60027.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	67101.0	0.0	67101.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	902.0	1.3
10°-20°	2141.4	3.2
20°-30°	3312.1	4.9
30°-40°	6010.0	9.0
40°-50°	11344.6	16.9
50°-60°	16391.9	24.4
60°-70°	17448.8	26.0
70°-80°	9246.6	13.8
80°-90°	303.6	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°	67101.0	100.0
0°-180°	67101.0	100.0

Coefficient of Utilization



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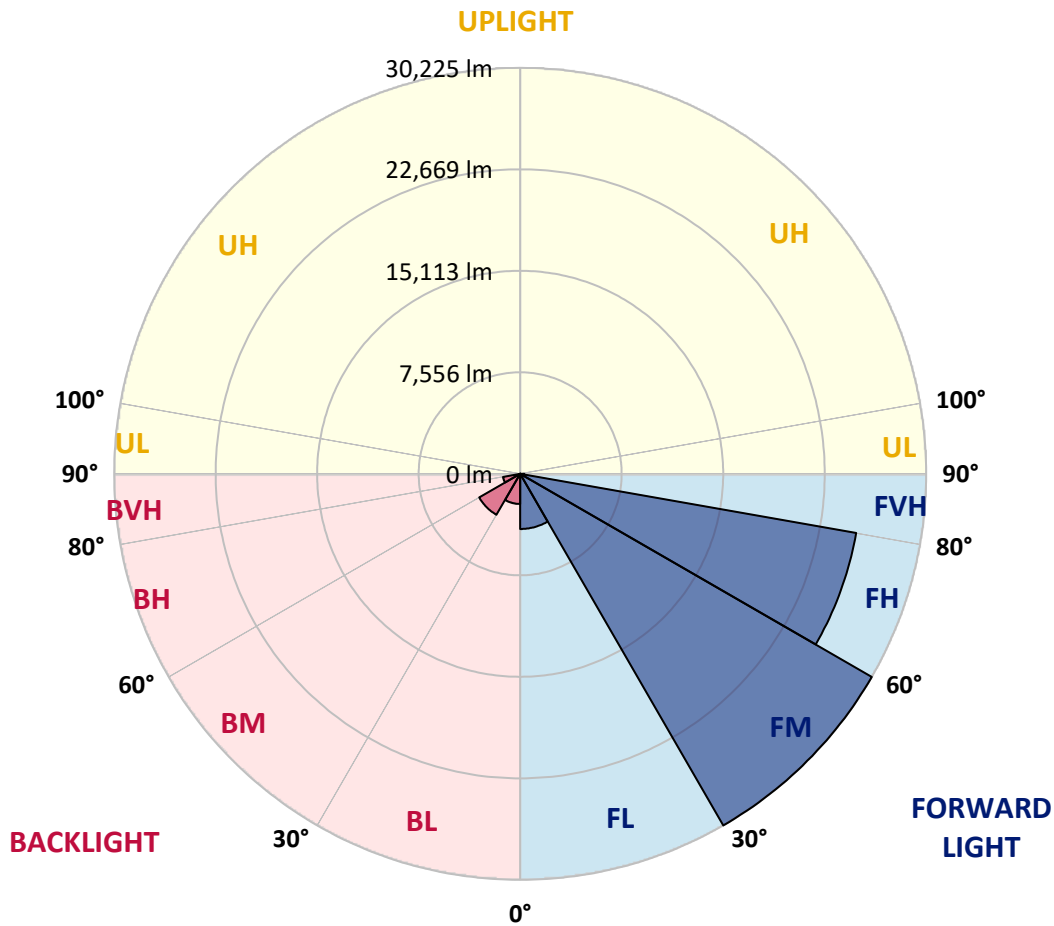
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4108.2	6.1			
FM (30°-60°)	30225.3	45.0			
FH (60°-80°)	25398.7	37.9			G5
FVH (80°-90°)	295.5	0.4			G3/500
BL (0°-30°)	2247.3	3.3	B3/2500		
BM (30°-60°)	3521.2	5.2	B3/5000		
BH (60°-80°)	1296.7	1.9	B3/2500		G3/2500
BVH (80°-90°)	8.2	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°	10466.5	10466.5	10466.5	10466.5	10466.5	10466.5	10466.5	10466.5	10466.5	10466.5
2.5°	9826.7	9915.7	9903.0	9962.3	9983.5	10068.2	10153.0	10267.4	10394.5	10390.3
5°	9271.6	9360.6	9381.8	9462.3	9564.0	9695.3	9869.1	10097.9	10335.2	10373.3
7.5°	8614.8	8708.0	8763.1	8924.1	9110.6	9381.8	9665.7	10000.4	10394.5	10449.6
10°	7958.0	8042.7	8114.7	8343.6	8640.2	9042.8	9504.6	9987.7	10517.4	10597.9
12.5°	7551.2	7631.7	7712.2	7911.4	8280.0	8771.6	9398.7	10047.0	10720.8	10835.2
15°	7407.1	7479.1	7542.7	7720.7	8063.9	8623.2	9377.5	10169.9	10979.3	11131.8
17.5°	7428.3	7466.4	7508.8	7644.4	7979.2	8555.4	9415.7	10381.8	11284.4	11420.0
20°	7551.2	7572.4	7576.6	7669.8	7966.4	8547.0	9491.9	10585.2	11572.5	11754.7
22.5°	7708.0	7716.4	7708.0	7771.5	8047.0	8610.5	9593.6	10831.0	11894.6	12064.1
25°	8441.0	8280.0	8076.6	7953.7	8182.5	8733.4	9746.2	11161.5	12246.3	12411.5
27.5°	10716.6	10254.7	9525.8	8708.0	8462.2	8911.4	9958.0	11496.2	12602.2	12750.5
30°	14411.6	13805.7	12568.3	10725.0	9360.6	9284.3	10233.5	11831.0	12979.4	13140.4
32.5°	18115.2	17966.9	16538.8	13987.9	11381.8	10114.8	10691.1	12284.4	13479.4	13606.5
35°	21861.1	21560.2	20390.7	17869.4	14496.4	11805.6	11453.9	12877.7	14136.2	14280.3
37.5°	24729.9	24547.6	23823.0	21746.7	18191.4	14415.9	12759.0	13797.2	15089.6	15250.6
40°	27263.9	27179.1	26933.3	25564.6	22323.0	17831.3	14788.8	15221.0	16411.7	16602.4
42.5°	29255.5	29454.6	29594.5	29213.1	26581.6	21729.7	17517.7	17221.1	18255.0	18449.9
45°	31293.7	31361.5	31925.1	32475.9	30810.6	25806.2	20594.1	19564.4	20547.5	20789.0
47.5°	32603.1	32874.3	33865.8	34836.2	34365.9	29848.7	23899.3	22331.5	23204.4	23657.8
50°	32700.5	33213.3	34577.7	36268.5	36955.0	33696.3	27492.7	25484.1	26412.1	26912.2
52.5°	31077.6	31874.2	33988.7	36463.4	38353.3	36955.0	31208.9	28636.8	29827.5	30480.1
55°	23827.3	24869.7	31772.5	35404.0	38408.4	39425.4	34827.7	31920.8	33632.8	34370.1
57.5°	20759.4	21284.8	24979.9	33565.0	37387.2	40421.2	38099.1	35048.1	37772.8	38688.1
60°	17271.9	17962.6	20950.0	30556.4	36001.5	40518.7	40989.0	39082.2	42260.3	43290.0
62.5°	11737.8	12487.8	15458.3	25386.7	34107.4	40472.0	43357.8	43234.9	47247.8	48353.7
65°	7271.5	7741.9	9699.6	20729.7	31459.0	40522.9	45836.7	48277.5	52510.7	53633.6
67.5°	5746.0	5962.1	6983.3	15915.9	26895.2	39378.8	48311.4	53019.2	57464.3	58354.2
70°	3860.3	3991.7	5080.7	10669.9	20009.3	34098.9	48264.8	55400.6	60015.2	60460.2
72.5°	2034.0	2135.7	2970.5	4940.9	12085.3	24238.3	40683.9	52553.1	57477.0	56807.5
75°	1017.0	1186.5	2000.1	2508.6	5161.2	13517.5	25263.8	41434.0	45239.2	42645.9
77.5°	771.2	932.2	1652.6	1652.6	1796.7	4551.0	10699.6	22598.4	20844.1	17356.7
80°	491.5	635.6	1445.0	1250.1	750.0	1156.8	2788.3	6330.8	4428.2	3368.8
82.5°	288.1	415.3	1203.4	826.3	419.5	428.0	788.2	1347.5	1148.4	894.1
85°	114.4	271.2	826.3	326.3	165.3	105.9	237.3	288.1	237.3	178.0
87.5°	0.0	63.6	144.1	0.0	12.7	8.5	16.9	21.2	21.2	16.9
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°
10466.5	0°	10466.5	10466.5	10466.5	10466.5	10466.5	10466.5	10466.5	10466.5	10466.5	10466.5
10475.0	2.5°	10513.2	10521.6	10547.1	10551.3	10492.0	10415.7	10386.0	10373.3	10322.5	10318.2
10542.8	5°	10640.3	10678.4	10640.3	10530.1	10267.4	9898.7	9619.1	9390.2	9182.6	9119.0
10775.9	7.5°	10894.5	10932.7	10818.3	10386.0	9725.0	8991.9	8330.9	7864.7	7445.2	7288.4
11059.8	10°	11259.0	11309.8	10949.6	10076.7	8907.2	7729.1	6610.4	5822.3	5207.8	4957.8
11445.4	12.5°	11716.6	11737.8	11021.7	9606.3	7843.6	6161.3	4576.5	3733.2	3186.6	2983.2
11911.5	15°	12220.9	12191.2	11030.1	8966.5	6394.3	4356.1	2987.4	2453.5	2233.1	2165.3
12377.6	17.5°	12750.5	12627.7	10860.6	8042.7	4805.3	2978.9	2216.2	2089.1	2050.9	2034.0
12839.5	20°	13271.7	12996.3	10551.3	6835.0	3449.3	2224.7	2012.8	1974.7	1953.5	1945.0
13305.6	22.5°	13746.3	13276.0	10021.6	5432.4	2504.3	1966.2	1902.6	1868.7	1830.6	1813.6
13759.1	25°	14208.2	13437.0	9275.8	4123.1	2004.3	1839.1	1788.2	1724.6	1673.8	1652.6
14246.4	27.5°	14657.4	13538.7	8343.6	3051.0	1788.2	1720.4	1627.2	1538.2	1500.1	1491.6
14767.6	30°	15136.2	13572.6	7284.2	2275.5	1656.8	1572.1	1436.5	1334.8	1313.6	1317.9
15471.0	32.5°	15721.0	13623.5	6216.4	1864.5	1546.7	1394.1	1233.1	1127.2	1110.2	1127.2
16496.5	35°	16420.2	13725.2	5186.7	1716.2	1449.2	1211.9	1038.2	949.2	932.2	945.0
17810.1	37.5°	17369.4	13890.4	4224.8	1686.5	1368.7	1059.4	872.9	800.9	800.9	805.1
19420.3	40°	18632.1	14331.1	3364.5	1665.3	1326.3	945.0	737.3	707.7	720.4	728.8
21471.2	42.5°	20170.3	15267.6	2784.0	1639.9	1279.7	894.1	669.5	656.8	678.0	686.5
23929.0	45°	21895.0	16454.1	2580.6	1597.5	1237.3	928.0	639.9	622.9	648.3	652.6
26683.3	47.5°	23679.0	17615.2	2555.2	1550.9	1195.0	978.9	631.4	593.2	622.9	627.1
29624.1	50°	25484.1	18373.7	2580.6	1478.9	1127.2	978.9	635.6	563.6	589.0	601.7
32675.1	52.5°	27302.0	18721.1	2563.7	1322.1	1008.5	919.5	635.6	538.2	563.6	572.1
35971.9	55°	29064.8	18653.3	2305.2	1089.0	856.0	813.6	618.7	517.0	533.9	538.2
39086.4	57.5°	30458.9	17708.4	1826.3	847.5	694.9	678.0	563.6	491.5	504.3	500.0
41942.5	60°	31187.8	15632.0	1305.1	652.6	546.6	533.9	495.8	457.6	466.1	444.9
44362.0	62.5°	31196.2	12886.1	872.9	517.0	436.5	423.7	423.7	411.0	402.6	360.2
46235.0	65°	30531.0	9839.4	580.5	411.0	351.7	330.5	355.9	351.7	322.0	262.7
46807.1	67.5°	29022.4	6449.4	440.7	322.0	271.2	258.5	283.9	296.6	275.4	220.3
44722.2	70°	25920.6	3754.4	364.4	250.0	203.4	190.7	228.8	254.2	228.8	178.0
38226.2	72.5°	21530.6	2025.5	296.6	186.4	139.8	127.1	182.2	207.6	182.2	131.4
24526.5	75°	13970.9	1084.8	228.8	122.9	72.0	80.5	135.6	152.5	127.1	84.7
7199.5	77.5°	4690.9	478.8	144.1	59.3	33.9	33.9	80.5	93.2	59.3	29.7
1309.4	80°	1046.7	199.2	59.3	25.4	12.7	12.7	16.9	16.9	8.5	0.0
402.6	82.5°	343.2	80.5	25.4	8.5	0.0	0.0	0.0	0.0	0.0	0.0
101.7	85°	131.4	29.7	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33.9	87.5°	50.8	4.2	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°
10466.5
10326.7
9080.9
7224.9
4851.9
2919.6
2165.3
2029.7
1936.5
1809.4
1644.1
1483.1
1317.9
1122.9
940.7
800.9
728.8
686.5
656.8
631.4
606.0
572.1
538.2
500.0
440.7
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254.2
216.1
169.5
127.1
76.3
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