

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: P957065

Luminaire Tested: **GALN-SB9C-740-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957065  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB9C-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

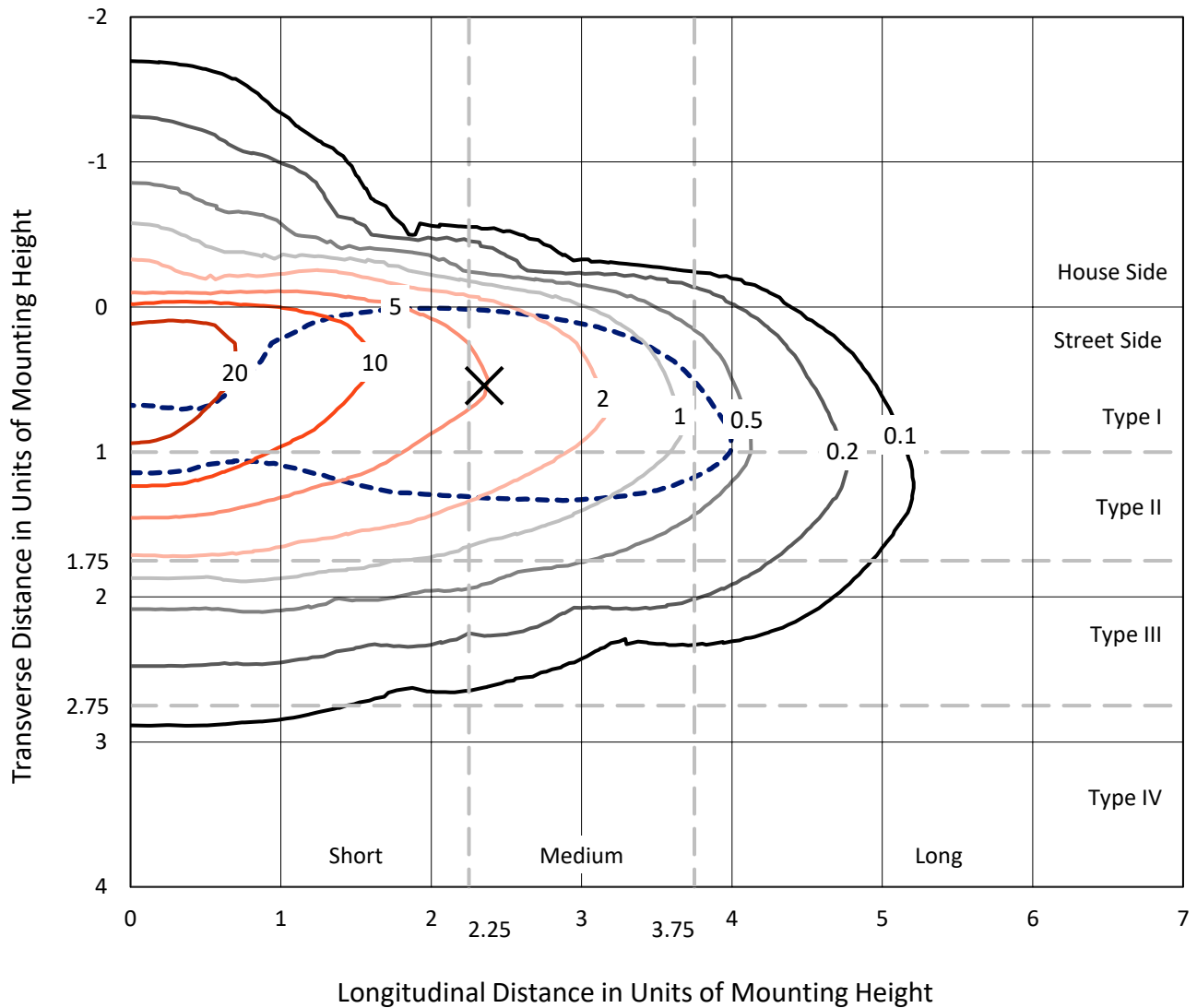
Lumens per Lamp: N/A  
Luminaire Lumens: 61103 lumens  
Efficiency: N/A  
Efficacy: 135.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

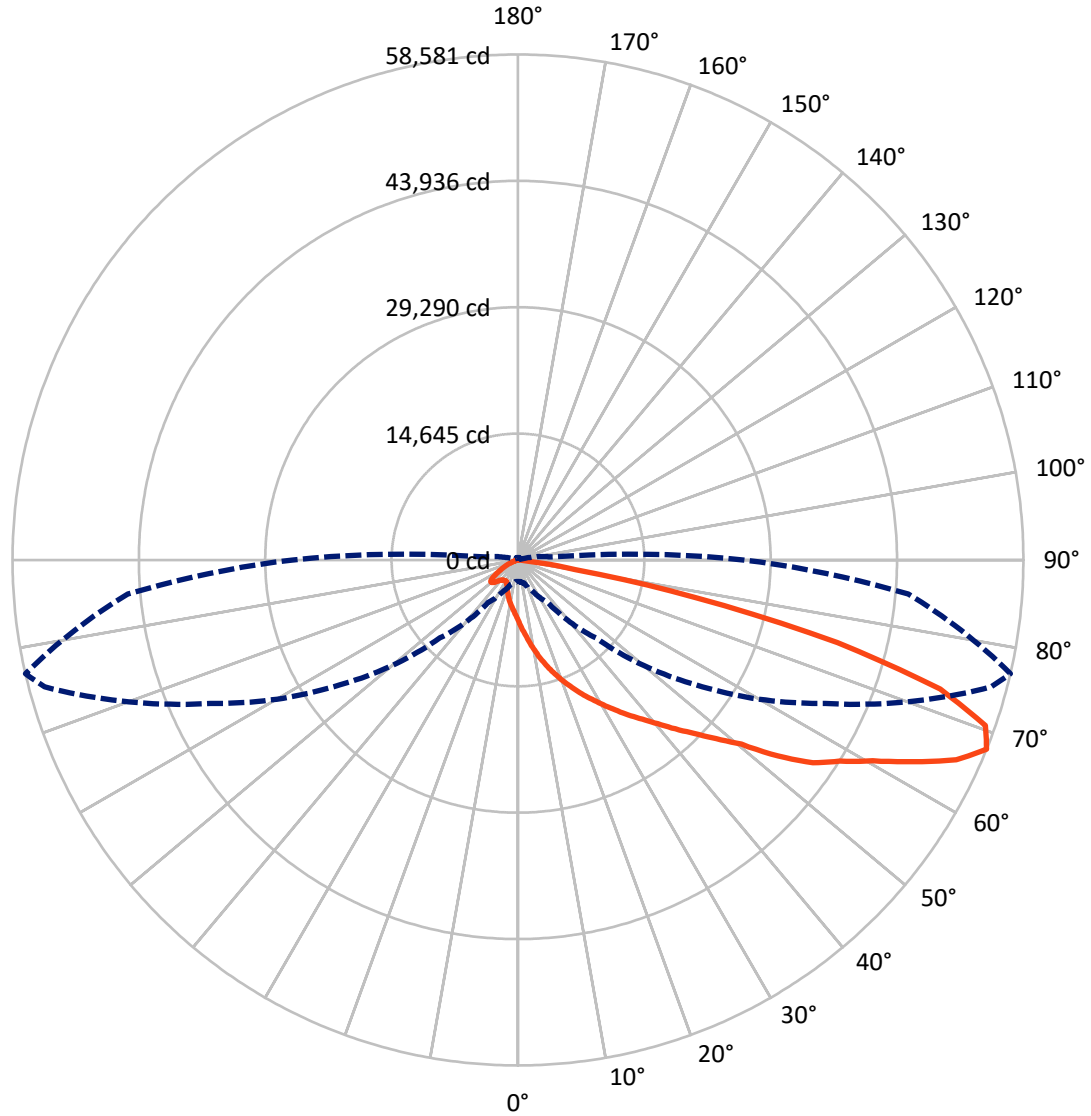
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4495.4	0.0	4495.4
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	56607.6	0.0	56607.6
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	61103.0	0.0	61103.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	719.2	1.2
10°-20°	2518.4	4.1
20°-30°	4859.9	8.0
30°-40°	8437.1	13.8
40°-50°	12250.1	20.0
50°-60°	14067.8	23.0
60°-70°	12213.4	20.0
70°-80°	5752.7	9.4
80°-90°	284.5	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°	61103.0	100.0
0°-180°	61103.0	100.0

**Coefficient of Utilization**



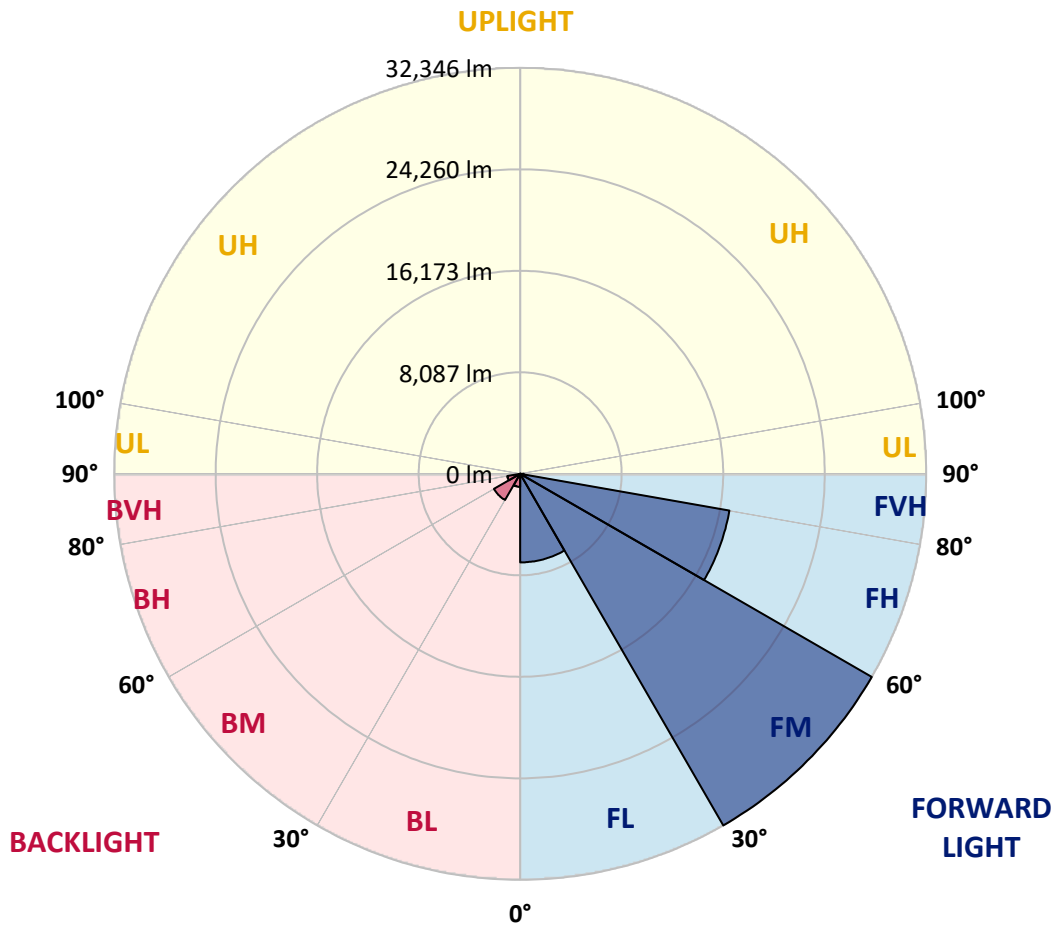
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7056.7	11.5			
FM (30°-60°)	32346.3	52.9			
FH (60°-80°)	16925.4	27.7			G5
FVH (80°-90°)	279.3	0.5			G3/500
BL (0°-30°)	1040.7	1.7	B3/2500		
BM (30°-60°)	2408.7	3.9	B2/2500		
BH (60°-80°)	1040.7	1.7	B3/2500		G3/2500
BVH (80°-90°)	5.2	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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7046.1	7046.1	7046.1	7046.1	7046.1	7046.1	7046.1	7046.1	7046.1	7046.1
2.5°	9755.2	9815.9	9728.7	9561.7	9311.3	9148.1	8749.7	8374.1	7956.7	7823.9
5°	11891.4	11944.6	11845.9	11663.8	11329.9	11011.2	10487.5	9702.1	8886.3	8624.5
7.5°	13473.7	13504.0	13466.1	13299.1	12980.4	12619.9	12035.6	11106.0	9895.6	9607.2
10°	14612.0	14710.6	14699.2	14634.7	14422.3	14130.1	13507.8	12449.2	11026.3	10654.5
12.5°	15367.0	15477.1	15541.6	15685.8	15674.4	15488.5	14942.1	13822.8	12153.2	11716.9
15°	15587.1	15704.7	15951.4	16285.3	16581.2	16676.1	16292.9	15169.7	13394.0	12836.2
17.5°	15461.9	15644.0	15940.0	16467.4	17116.2	17545.0	17503.3	16471.2	14520.9	13883.5
20°	15738.9	15913.4	16144.9	16588.8	17343.9	18121.7	18432.9	17715.7	15640.2	14972.4
22.5°	17271.8	17241.4	17264.2	17336.3	17787.8	18558.1	19199.3	18846.4	16748.2	16065.2
25°	19700.2	19563.6	19332.1	18941.3	18827.5	19199.3	19867.1	19848.1	17916.8	17184.5
27.5°	22485.2	22462.4	21919.9	20978.9	20447.7	20303.5	20622.2	20823.3	19074.1	18292.5
30°	25152.6	25213.3	24481.0	23433.8	22458.6	21893.3	21604.9	21749.1	20250.3	19487.7
32.5°	27474.8	27539.3	26742.5	25516.9	24310.3	23627.3	23020.2	22663.5	21532.8	20701.9
35°	29436.4	29500.9	28586.5	27231.9	25945.6	25327.2	24640.4	23665.2	22822.9	22048.9
37.5°	31189.4	31170.4	29944.9	28578.9	27315.4	26825.9	26465.5	24898.4	24150.9	23403.4
40°	32225.3	32304.9	31257.7	29751.4	28525.8	28169.1	28146.4	26427.5	25683.8	24959.1
42.5°	32528.8	32669.2	31910.3	30673.4	29561.6	29174.6	29770.3	28081.8	27467.2	26761.4
45°	31982.4	32119.0	31773.7	30916.2	30267.4	30017.0	31166.6	29796.9	29371.9	28673.8
47.5°	30388.8	30559.5	30643.0	30460.9	30453.3	30707.5	32418.8	31603.0	31633.3	30920.0
50°	27304.0	27592.4	28358.8	29003.9	30001.8	31253.9	33636.8	33560.9	34183.1	33568.5
52.5°	21696.0	22105.8	24746.6	26511.0	28753.4	31151.5	34976.2	36702.6	38656.7	37757.4
55°	17435.0	17435.0	19582.5	22883.6	26317.5	30476.1	35560.5	38743.9	41703.5	41491.0
57.5°	14213.6	14384.3	15754.1	18671.9	22792.6	28867.3	35920.9	40026.4	44158.4	44002.9
60°	8772.5	9140.5	11728.3	14608.2	18781.9	26002.6	35693.3	41324.1	47137.0	47262.2
62.5°	4940.2	5076.8	6230.3	10510.3	14604.4	22151.3	33951.7	42048.8	50946.5	51477.7
65°	3411.1	3479.4	3923.3	6541.4	10123.3	17636.1	30548.2	41597.3	54763.6	55837.4
67.5°	2477.7	2511.8	2788.8	3995.4	6006.4	12786.9	25213.3	39320.7	56786.0	58580.7
70°	1904.8	1927.5	2128.6	2625.7	3547.7	7892.2	18311.4	34794.0	55321.4	57465.2
72.5°	1548.1	1570.9	1726.4	1942.7	2352.5	4667.0	11098.4	28256.4	48855.8	51170.4
75°	1305.3	1335.6	1476.0	1616.4	1844.0	2997.5	5205.8	19677.4	36740.5	38258.2
77.5°	724.7	667.8	1199.0	1339.4	1555.7	1897.2	2436.0	11580.3	20576.7	20997.8
80°	451.5	466.7	952.4	1077.6	1195.2	956.2	1115.5	4458.3	7133.3	6776.7
82.5°	26.6	60.7	732.3	777.8	819.6	409.8	421.2	1513.9	1718.8	1578.4
85°	0.0	0.0	333.9	269.4	284.6	117.6	121.4	352.9	231.5	250.4
87.5°	0.0	0.0	0.0	7.6	0.0	11.4	22.8	30.4	11.4	15.2
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°
7046.1	0°	7046.1	7046.1	7046.1	7046.1	7046.1	7046.1	7046.1	7046.1	7046.1	7046.1
7406.5	2.5°	7140.9	6875.3	6336.5	5809.1	5380.4	4982.0	4697.4	4428.0	4291.4	4283.8
7884.6	5°	7357.2	6799.4	5721.9	4769.5	4003.0	3388.3	2989.9	2705.4	2561.2	2511.8
8472.7	7.5°	7660.8	6822.2	5183.1	3858.8	2955.8	2428.4	2200.7	2109.6	2079.3	2045.1
9136.8	10°	8044.0	6875.3	4701.2	3107.6	2329.7	2064.1	1973.1	1935.1	1912.3	1889.6
9884.2	12.5°	8472.7	6924.7	4223.1	2580.1	2048.9	1912.3	1847.8	1802.3	1772.0	1745.4
10650.7	15°	8890.1	6955.0	3726.0	2212.1	1904.8	1794.7	1726.4	1677.1	1635.4	1605.0
11402.0	17.5°	9303.7	6996.7	3259.3	1992.0	1787.1	1677.1	1608.8	1548.1	1513.9	1479.8
12191.2	20°	9762.8	6989.2	2819.2	1836.5	1669.5	1559.5	1487.4	1430.5	1396.3	1358.4
13025.9	22.5°	10187.8	6951.2	2432.2	1703.7	1548.1	1441.8	1362.2	1305.3	1271.1	1240.7
13879.7	25°	10677.2	6920.9	2109.6	1582.2	1434.3	1328.0	1240.7	1187.6	1149.7	1123.1
14737.2	27.5°	11147.7	6875.3	1874.4	1472.2	1324.2	1221.8	1138.3	1077.6	1043.4	1024.5
15621.3	30°	11610.7	6863.9	1787.1	1366.0	1225.6	1123.1	1039.6	982.7	956.2	948.6
16592.6	32.5°	12168.4	6894.3	1825.1	1328.0	1134.5	1032.1	952.4	910.6	884.1	884.1
17674.0	35°	12764.1	6886.7	1882.0	1362.2	1073.8	941.0	880.3	853.7	827.2	827.2
18873.0	37.5°	13511.6	6898.1	1927.5	1419.1	1051.0	865.1	831.0	796.8	781.6	781.6
20185.8	40°	14627.1	7273.7	1904.8	1468.4	1043.4	812.0	743.7	732.3	720.9	720.9
21669.4	42.5°	15993.1	8089.5	1935.1	1472.2	1039.6	774.0	683.0	705.7	679.2	675.4
23342.7	45°	17488.1	8981.2	2128.6	1392.5	1035.9	755.1	652.6	679.2	637.4	637.4
25281.6	47.5°	18971.7	9865.3	2325.9	1278.7	1024.5	751.3	626.1	610.9	599.5	603.3
27808.7	50°	21016.8	10586.2	2401.8	1123.1	997.9	743.7	576.7	580.5	572.9	580.5
31371.5	52.5°	23244.1	10738.0	2310.7	948.6	922.0	720.9	542.6	557.8	554.0	561.6
33879.6	55°	24632.8	10574.8	1908.5	789.2	804.4	629.9	508.4	538.8	538.8	538.8
36330.7	57.5°	26067.1	9880.4	1354.6	641.2	667.8	516.0	478.1	519.8	516.0	512.2
39282.7	60°	27099.1	8757.3	891.7	527.4	531.2	425.0	443.9	489.5	485.7	466.7
42325.8	62.5°	27869.4	7516.6	572.9	447.7	406.0	383.2	406.0	443.9	428.8	387.0
44905.9	65°	27782.1	5797.7	440.1	383.2	333.9	333.9	352.9	387.0	341.5	273.2
45399.2	67.5°	26161.9	3923.3	364.3	322.5	280.8	277.0	292.2	322.5	292.2	231.5
42872.2	70°	23266.8	2565.0	292.2	250.4	223.9	204.9	235.2	277.0	246.6	185.9
36497.7	72.5°	18884.4	1563.3	220.1	182.1	163.2	132.8	185.9	227.7	197.3	136.6
25380.3	75°	12217.7	796.8	151.8	117.6	87.3	79.7	136.6	170.7	136.6	83.5
11261.6	77.5°	4674.6	333.9	83.5	53.1	45.5	37.9	75.9	102.4	56.9	19.0
2181.7	80°	899.3	140.4	41.7	26.6	22.8	15.2	11.4	7.6	0.0	0.0
387.0	82.5°	155.6	45.5	15.2	7.6	0.0	0.0	0.0	0.0	0.0	0.0
75.9	85°	53.1	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26.6	87.5°	19.0	0.0	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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180°
7046.1
4276.2
2504.3
2037.6
1882.0
1737.8
1601.2
1476.0
1354.6
1237.0
1119.3
1024.5
944.8
884.1
827.2
781.6
720.9
671.6
637.4
603.3
580.5
561.6
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