

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: P954549

Luminaire Tested: **GALN-SB7D-735-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954549  
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-SB7D-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

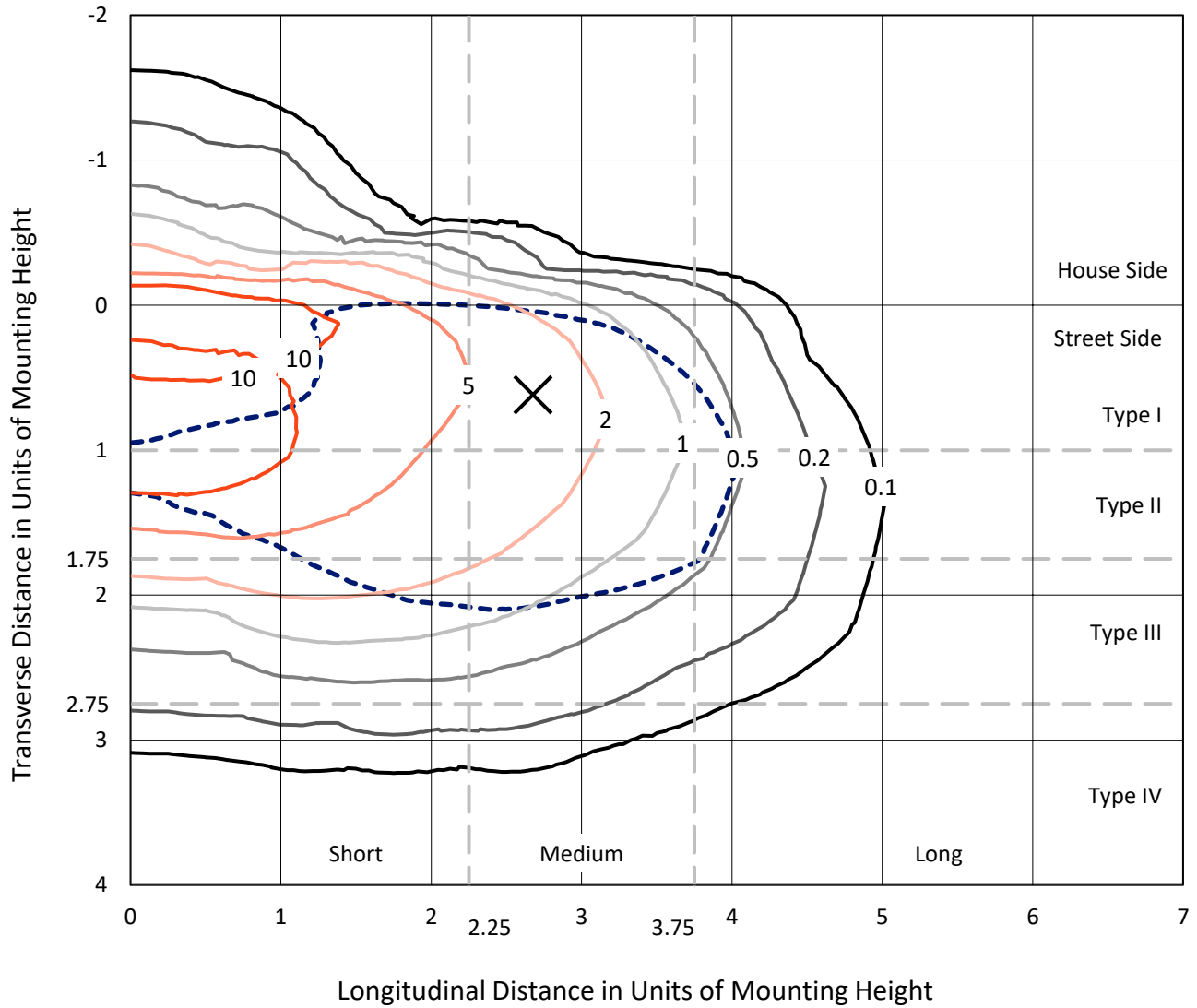
Lumens per Lamp: N/A  
Luminaire Lumens: 60250 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

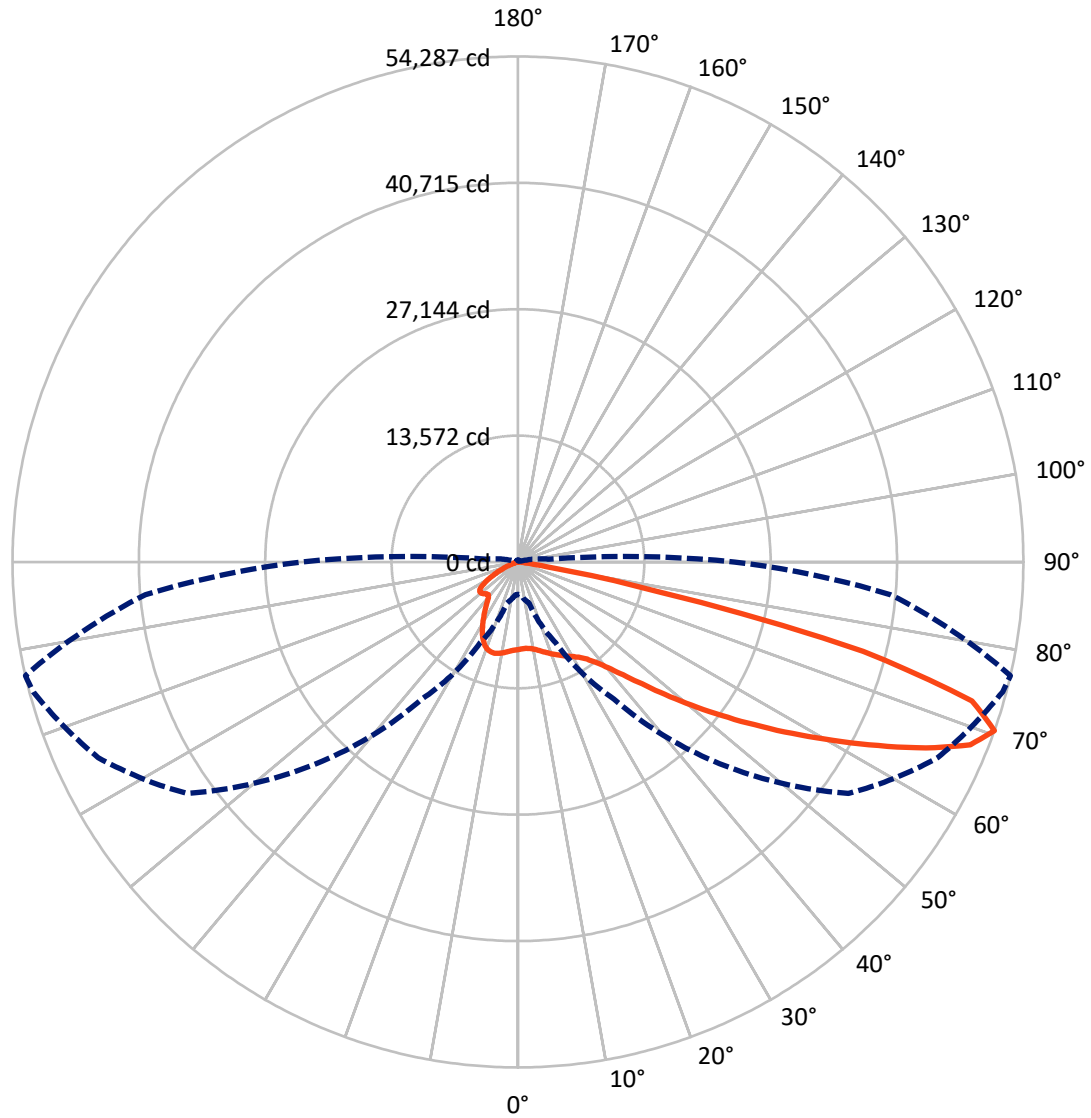
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 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
<b>House Side</b>	Lumens	6351.2	0.0	6351.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	53898.8	0.0	53898.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	60250.0	0.0	60250.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	809.9	1.3
10°-20°	1922.7	3.2
20°-30°	2973.9	4.9
30°-40°	5396.4	9.0
40°-50°	10186.3	16.9
50°-60°	14718.3	24.4
60°-70°	15667.3	26.0
70°-80°	8302.6	13.8
80°-90°	272.6	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°	60250.0	100.0
0°-180°	60250.0	100.0

**Coefficient of Utilization**



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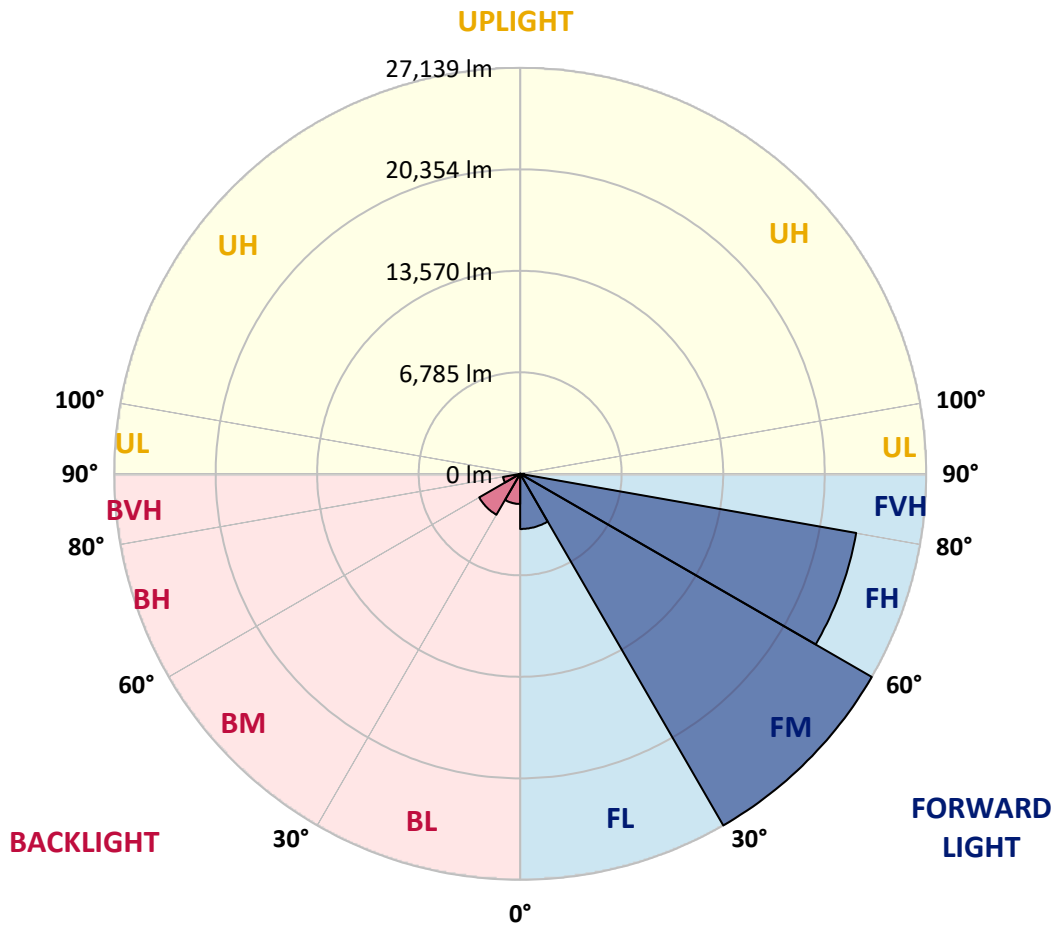
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3688.7	6.1			
FM (30°-60°)	27139.3	45.0			
FH (60°-80°)	22805.5	37.9			G5
FVH (80°-90°)	265.3	0.4			G3/500
BL (0°-30°)	2017.9	3.3	B3/2500		
BM (30°-60°)	3161.7	5.2	B3/5000		
BH (60°-80°)	1164.3	1.9	B3/2500		G3/2500
BVH (80°-90°)	7.3	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°	9397.9	9397.9	9397.9	9397.9	9397.9	9397.9	9397.9	9397.9	9397.9	9397.9
2.5°	8823.4	8903.3	8891.9	8945.1	8964.2	9040.3	9116.4	9219.1	9333.2	9329.4
5°	8325.0	8404.9	8423.9	8496.2	8587.5	8705.4	8861.4	9066.9	9280.0	9314.2
7.5°	7735.2	7818.9	7868.4	8013.0	8180.4	8423.9	8678.8	8979.4	9333.2	9382.7
10°	7145.5	7221.6	7286.2	7491.7	7758.0	8119.5	8534.2	8968.0	9443.6	9515.9
12.5°	6780.2	6852.5	6924.8	7103.6	7434.6	7876.0	8439.1	9021.2	9626.2	9728.9
15°	6650.8	6715.5	6772.6	6932.4	7240.6	7742.8	8420.1	9131.6	9858.3	9995.3
17.5°	6669.9	6704.1	6742.1	6863.9	7164.5	7681.9	8454.3	9321.8	10132.2	10254.0
20°	6780.2	6799.2	6803.0	6886.7	7153.1	7674.3	8522.8	9504.4	10391.0	10554.6
22.5°	6921.0	6928.6	6921.0	6978.0	7225.4	7731.4	8614.1	9725.1	10680.1	10832.3
25°	7579.2	7434.6	7252.0	7141.7	7347.1	7841.7	8751.1	10021.9	10995.9	11144.3
27.5°	9622.4	9207.7	8553.2	7818.9	7598.2	8001.5	8941.3	10322.5	11315.5	11448.7
30°	12940.2	12396.1	11285.1	9630.0	8404.9	8336.4	9188.6	10623.1	11654.2	11798.8
32.5°	16265.6	16132.4	14850.2	12559.7	10219.8	9082.1	9599.6	11030.2	12103.1	12217.3
35°	19629.1	19358.9	18308.8	16044.9	13016.3	10600.2	10284.4	11562.9	12692.9	12822.3
37.5°	22204.9	22041.3	21390.7	19526.3	16334.1	12944.0	11456.3	12388.5	13549.0	13693.6
40°	24480.2	24404.1	24183.5	22954.5	20043.8	16010.7	13278.8	13666.9	14736.1	14907.3
42.5°	26268.5	26447.3	26572.9	26230.4	23867.7	19511.1	15729.1	15462.8	16391.2	16566.2
45°	28098.6	28159.5	28665.5	29160.2	27664.9	23171.4	18491.4	17566.9	18449.6	18666.5
47.5°	29274.3	29517.8	30408.1	31279.4	30857.1	26801.2	21459.2	20051.4	20835.2	21242.3
50°	29361.8	29822.2	31047.4	32565.5	33181.9	30255.9	24685.7	22882.2	23715.5	24164.4
52.5°	27904.6	28619.9	30518.5	32740.5	34437.4	33181.9	28022.5	25713.0	26782.1	27368.1
55°	21394.5	22330.5	28528.6	31789.3	34486.9	35400.1	31271.8	28661.7	30198.9	30860.9
57.5°	18639.8	19111.6	22429.4	30138.0	33569.9	36294.2	34209.2	31469.7	33916.2	34738.0
60°	15508.5	16128.6	18811.0	27436.6	32325.8	36381.7	36804.0	35091.9	37945.5	38870.1
62.5°	10539.4	11212.8	13880.0	22794.7	30625.0	36339.9	38930.9	38820.6	42423.8	43416.8
65°	6529.1	6951.4	8709.2	18613.2	28247.0	36385.5	41156.8	43348.3	47149.4	48157.6
67.5°	5159.3	5353.4	6270.3	14290.9	24149.2	35358.2	43378.8	47605.9	51597.2	52396.2
70°	3466.2	3584.1	4562.0	9580.5	17966.4	30617.4	43336.9	49744.3	53887.7	54287.2
72.5°	1826.3	1917.6	2667.2	4436.4	10851.4	21763.6	36530.1	47187.4	51608.6	51007.5
75°	913.2	1065.4	1795.9	2252.5	4634.3	12137.4	22684.4	37203.6	40620.3	38291.7
77.5°	692.5	837.1	1483.9	1483.9	1613.2	4086.4	9607.2	20291.1	18715.9	15584.6
80°	441.4	570.7	1297.4	1122.4	673.5	1038.7	2503.6	5684.4	3976.0	3024.8
82.5°	258.7	372.9	1080.6	741.9	376.7	384.3	707.7	1209.9	1031.1	802.8
85°	102.7	243.5	741.9	293.0	148.4	95.1	213.1	258.7	213.1	159.8
87.5°	0.0	57.1	129.4	0.0	11.4	7.6	15.2	19.0	19.0	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°
9397.9	0°	9397.9	9397.9	9397.9	9397.9	9397.9	9397.9	9397.9	9397.9	9397.9	9397.9
9405.5	2.5°	9439.8	9447.4	9470.2	9474.0	9420.7	9352.3	9325.6	9314.2	9268.5	9264.7
9466.4	5°	9553.9	9588.2	9553.9	9455.0	9219.1	8888.1	8636.9	8431.5	8245.1	8188.0
9675.7	7.5°	9782.2	9816.4	9713.7	9325.6	8732.1	8073.8	7480.3	7061.8	6685.1	6544.3
9930.6	10°	10109.4	10155.1	9831.7	9047.9	7997.7	6940.0	5935.5	5227.8	4676.1	4451.6
10276.8	12.5°	10520.3	10539.4	9896.3	8625.5	7042.7	5532.2	4109.2	3352.0	2861.2	2678.6
10695.4	15°	10973.1	10946.5	9904.0	8051.0	5741.5	3911.4	2682.4	2203.0	2005.1	1944.3
11113.9	17.5°	11448.7	11338.4	9751.8	7221.6	4314.7	2674.8	1989.9	1875.8	1841.5	1826.3
11528.6	20°	11916.7	11669.4	9474.0	6137.2	3097.1	1997.5	1807.3	1773.0	1754.0	1746.4
11947.1	22.5°	12342.8	11920.5	8998.4	4877.8	2248.7	1765.4	1708.4	1677.9	1643.7	1628.5
12354.3	25°	12757.6	12065.1	8328.8	3702.1	1799.7	1651.3	1605.6	1548.6	1502.9	1483.9
12791.8	27.5°	13160.9	12156.4	7491.7	2739.5	1605.6	1544.8	1461.1	1381.2	1346.9	1339.3
13259.8	30°	13590.8	12186.8	6540.5	2043.2	1487.7	1411.6	1289.8	1198.5	1179.5	1183.3
13891.4	32.5°	14115.9	12232.5	5581.7	1674.1	1388.8	1251.8	1107.2	1012.1	996.9	1012.1
14812.2	35°	14743.7	12323.8	4657.1	1541.0	1301.2	1088.2	932.2	852.3	837.1	848.5
15991.7	37.5°	15596.0	12472.2	3793.4	1514.3	1229.0	951.2	783.8	719.1	719.1	722.9
17437.5	40°	16729.8	12867.9	3021.0	1495.3	1190.9	848.5	662.0	635.4	646.8	654.4
19279.0	42.5°	18111.0	13708.8	2499.8	1472.5	1149.1	802.8	601.2	589.7	608.8	616.4
21485.8	45°	19659.5	14774.1	2317.1	1434.4	1111.0	833.3	574.5	559.3	582.1	585.9
23959.0	47.5°	21261.3	15816.6	2294.3	1392.6	1073.0	878.9	566.9	532.7	559.3	563.1
26599.5	50°	22882.2	16497.7	2317.1	1327.9	1012.1	878.9	570.7	506.0	528.9	540.3
29339.0	52.5°	24514.5	16809.7	2301.9	1187.1	905.5	825.6	570.7	483.2	506.0	513.7
32299.1	55°	26097.3	16748.8	2069.8	977.8	768.6	730.5	555.5	464.2	479.4	483.2
35095.7	57.5°	27349.1	15900.4	1639.9	761.0	624.0	608.8	506.0	441.4	452.8	449.0
37660.1	60°	28003.5	14036.0	1171.9	585.9	490.8	479.4	445.2	410.9	418.5	399.5
39832.7	62.5°	28011.1	11570.5	783.8	464.2	391.9	380.5	380.5	369.1	361.5	323.4
41514.4	65°	27413.7	8834.8	521.3	369.1	315.8	296.8	319.6	315.8	289.2	235.9
42028.1	67.5°	26059.2	5790.9	395.7	289.2	243.5	232.1	254.9	266.3	247.3	197.9
40156.1	70°	23274.1	3371.1	327.2	224.5	182.6	171.2	205.5	228.3	205.5	159.8
34323.3	72.5°	19332.3	1818.7	266.3	167.4	125.6	114.1	163.6	186.4	163.6	117.9
22022.3	75°	12544.5	974.0	205.5	110.3	64.7	72.3	121.8	137.0	114.1	76.1
6464.4	77.5°	4211.9	429.9	129.4	53.3	30.4	30.4	72.3	83.7	53.3	26.6
1175.7	80°	939.8	178.8	53.3	22.8	11.4	11.4	15.2	15.2	7.6	0.0
361.5	82.5°	308.2	72.3	22.8	7.6	0.0	0.0	0.0	0.0	0.0	0.0
91.3	85°	117.9	26.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.4	87.5°	45.7	3.8	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°
9397.9
9272.4
8153.7
6487.2
4356.5
2621.5
1944.3
1822.5
1738.8
1624.7
1476.3
1331.7
1183.3
1008.3
844.7
719.1
654.4
616.4
589.7
566.9
544.1
513.7
483.2
449.0
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