

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: P944756

Luminaire Tested: **GALN-SB9D-835-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944756  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-835-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

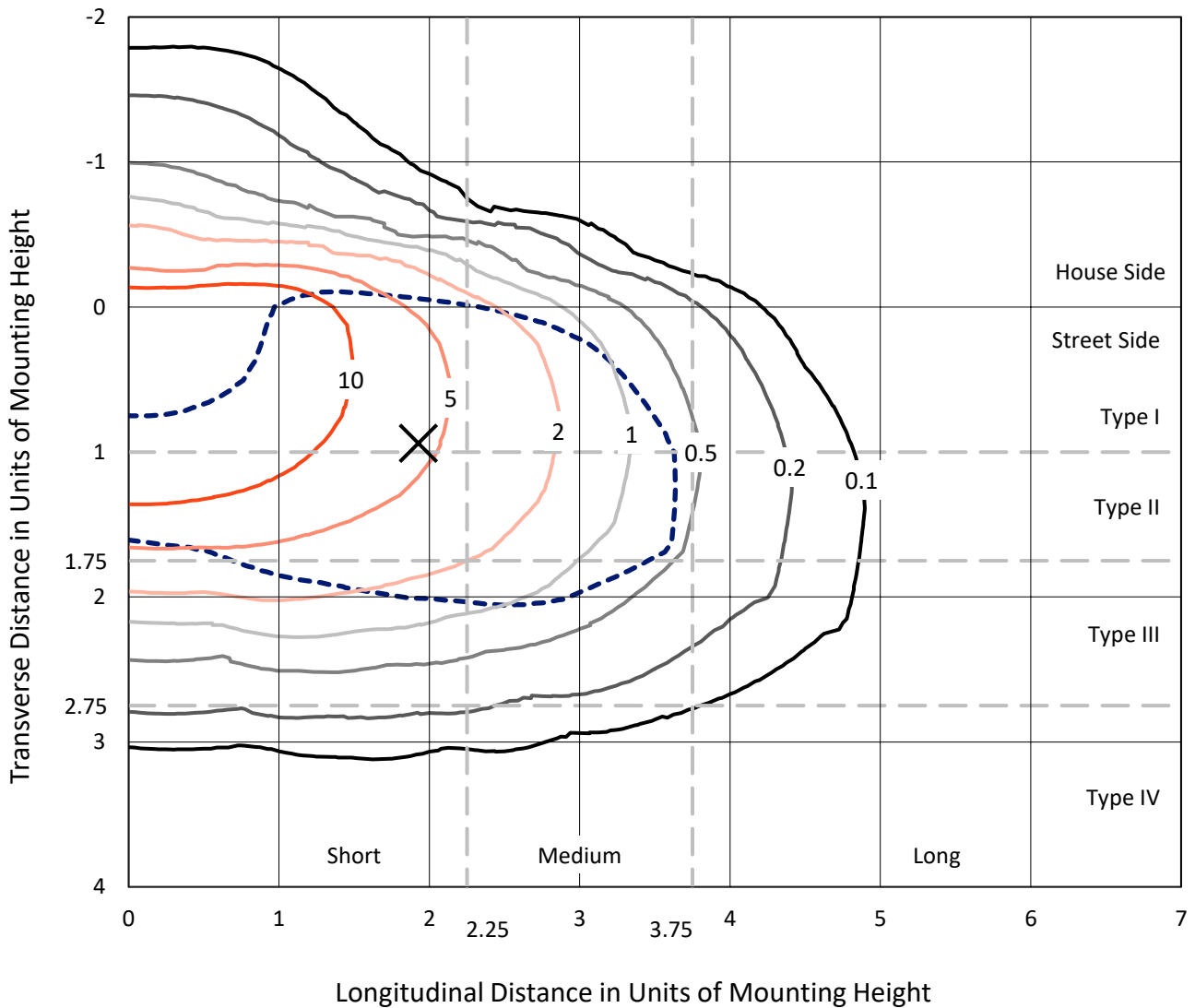
Lumens per Lamp: N/A  
Luminaire Lumens: 67425 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

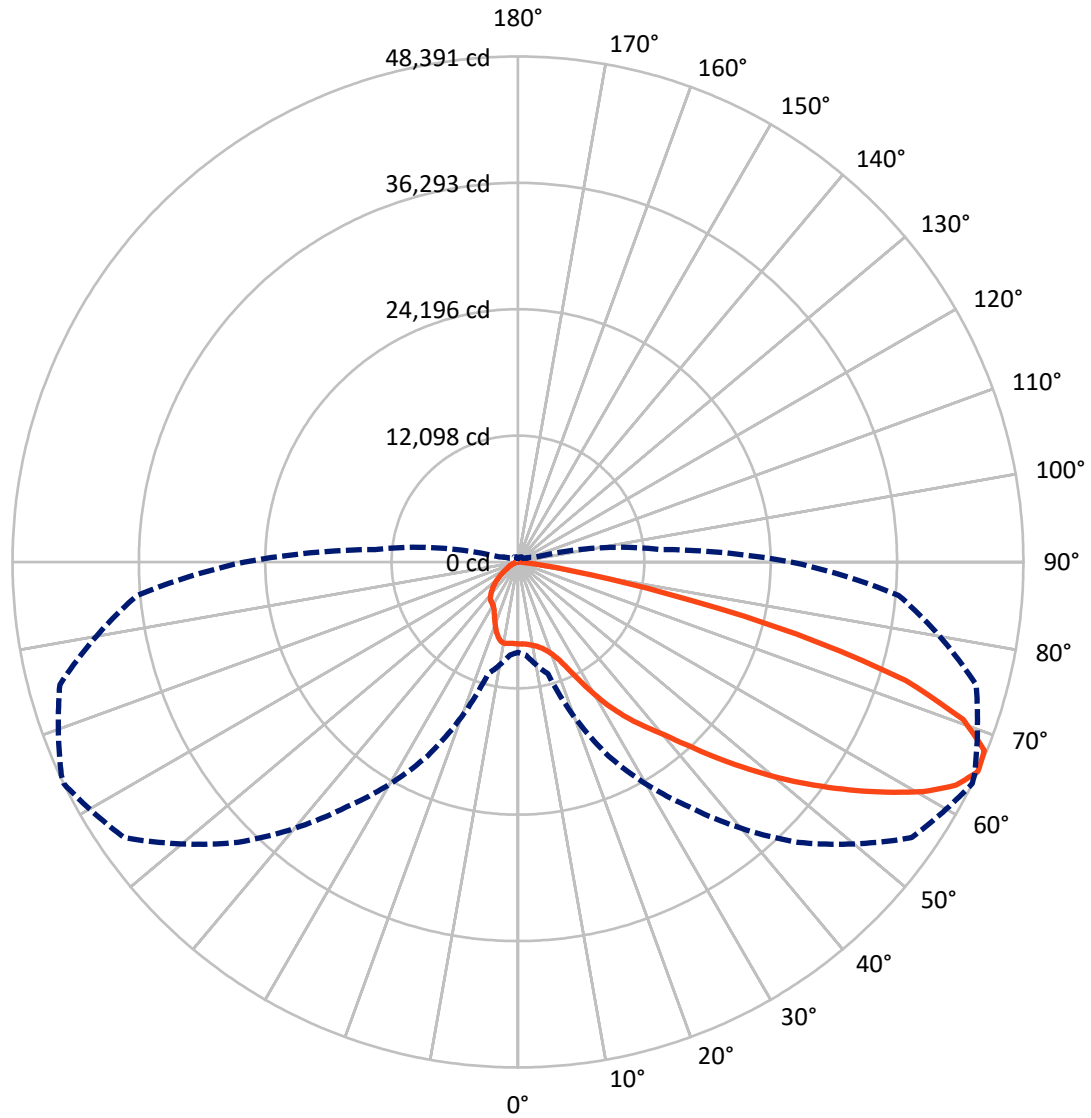
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9016.8	0.0	9016.8
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	58408.2	0.0	58408.2
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	67425.0	0.0	67425.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	723.5	1.1
10°-20°	1962.4	2.9
20°-30°	3718.6	5.5
30°-40°	7524.7	11.2
40°-50°	12818.3	19.0
50°-60°	17432.0	25.9
60°-70°	16369.5	24.3
70°-80°	6558.3	9.7
80°-90°	317.7	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°	67425.0	100.0
0°-180°	67425.0	100.0

**Coefficient of Utilization**



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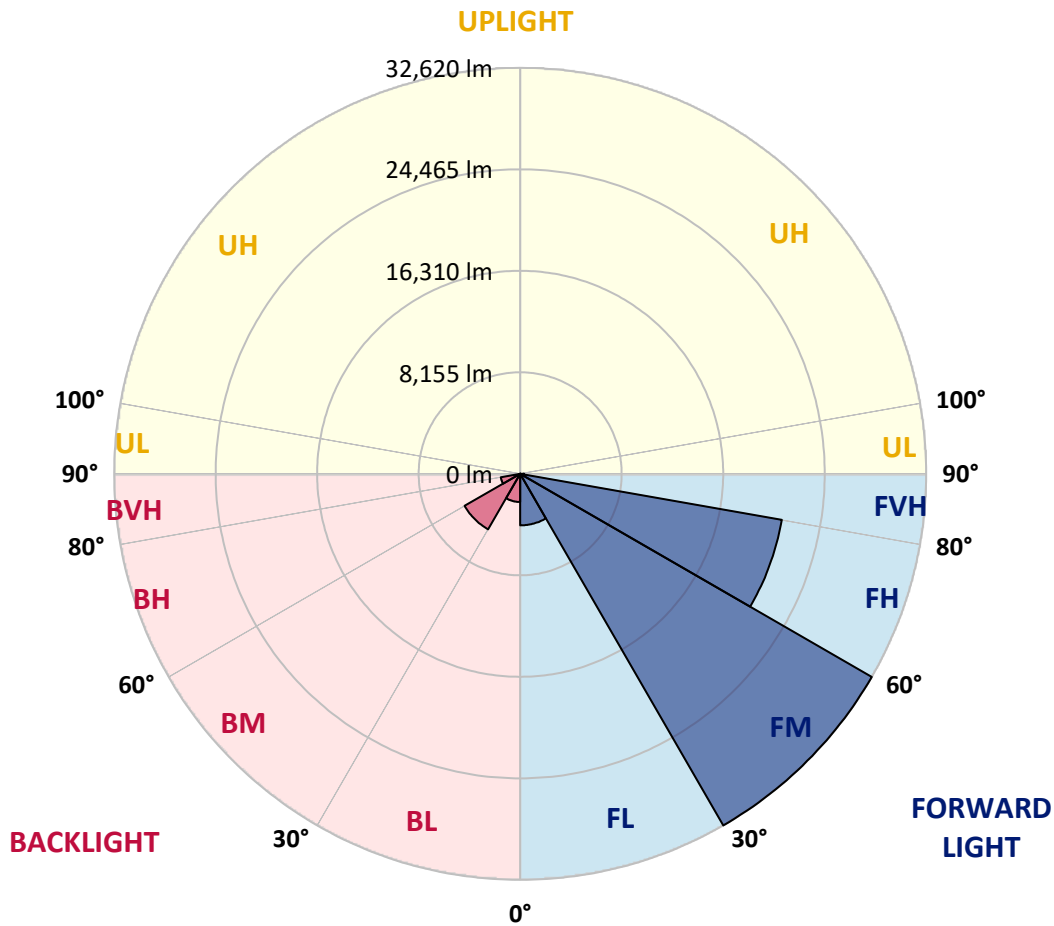
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4140.7	6.1			
FM (30°-60°)	32620.1	48.4			
FH (60°-80°)	21345.2	31.7			G5
FVH (80°-90°)	302.2	0.4			G3/500
BL (0°-30°)	2263.8	3.4	B3/2500		
BM (30°-60°)	5154.8	7.6	B4/8500		
BH (60°-80°)	1582.6	2.3	B3/2500		G3/2500
BVH (80°-90°)	15.5	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	7842.2	7842.2	7842.2	7842.2	7842.2	7842.2	7842.2	7842.2	7842.2	7842.2
2.5°	7815.1	7869.3	7855.8	7842.2	7837.7	7846.7	7851.3	7846.7	7846.7	7846.7
5°	7665.9	7711.1	7711.1	7742.8	7788.0	7842.2	7882.9	7891.9	7901.0	7914.5
7.5°	7381.2	7417.3	7444.5	7548.4	7661.4	7806.1	7928.1	7991.4	8000.4	8050.1
10°	7186.8	7232.0	7277.2	7385.7	7548.4	7765.4	7973.3	8127.0	8149.6	8267.1
12.5°	7177.8	7223.0	7281.7	7399.3	7589.1	7819.6	8072.7	8294.2	8334.9	8506.7
15°	7272.7	7326.9	7381.2	7525.8	7729.2	8009.5	8280.7	8556.4	8597.1	8841.2
17.5°	7467.1	7539.4	7580.1	7724.7	7941.7	8253.5	8610.6	8927.0	8963.2	9248.0
20°	7851.3	7937.1	7950.7	8068.2	8280.7	8615.2	9040.0	9433.3	9478.5	9803.9
22.5°	8646.8	8768.8	8660.4	8719.1	8909.0	9243.4	9704.5	10201.7	10265.0	10635.6
25°	10048.0	10219.8	9939.5	9840.1	9921.4	10269.5	10848.0	11476.3	11548.6	11847.0
27.5°	12800.7	12579.2	12154.3	11738.5	11494.4	11693.3	12344.2	13121.6	13212.0	13501.3
30°	15824.6	15630.2	15056.2	14134.1	13555.5	13523.9	14125.0	14992.9	15096.9	15372.6
32.5°	18853.0	18667.7	18043.9	16909.4	15905.9	15408.7	15824.6	16787.3	16841.6	17017.9
35°	21831.7	21641.8	21018.1	19856.4	18622.5	17492.5	17411.1	18495.9	18514.0	18699.3
37.5°	24828.4	24670.2	24005.8	22866.8	21650.9	20091.5	19336.6	20114.1	20136.7	20317.5
40°	26966.4	27034.2	26577.7	25696.3	24652.2	22948.1	21497.2	21836.2	21700.6	22003.4
42.5°	28801.5	28937.1	28539.4	28096.4	27490.7	25990.1	24173.0	24114.3	23897.3	24060.0
45°	30388.1	30501.1	30144.0	30040.0	30026.5	28973.3	27097.5	26744.9	26442.1	26410.5
47.5°	30971.1	31188.1	31341.8	31689.8	32367.8	31924.9	30121.4	29574.5	29235.5	28986.9
50°	31192.6	31423.2	31947.5	32960.0	34564.6	34754.4	33131.7	32517.0	32101.2	31649.2
52.5°	30894.3	31305.6	32010.8	33714.8	36042.6	37023.5	36020.0	35482.1	35007.5	34270.8
55°	29136.0	29547.3	30989.2	33705.8	36779.4	38614.5	38750.1	38510.5	37977.2	36815.5
57.5°	25429.6	26039.8	28322.4	32557.7	36765.8	39984.1	41425.9	41597.7	41001.1	39337.7
60°	20294.9	21122.0	23906.4	30012.9	35631.3	40725.3	43771.8	44630.6	43997.8	41823.7
62.5°	14161.2	15119.5	17754.6	26026.3	33036.8	40192.0	45484.9	47071.4	46592.3	44047.6
65°	8637.8	8945.1	11069.5	20480.2	28625.3	37959.1	46013.8	48391.3	48233.1	45408.1
67.5°	5754.0	6011.6	6621.8	14043.7	22220.4	33497.8	44748.2	48160.8	48206.0	45186.6
70°	3466.9	3688.3	4086.1	8167.7	14400.8	26514.4	40829.3	45222.8	45484.9	42226.0
72.5°	1428.3	1577.5	1939.1	3701.9	7458.0	16828.0	32512.5	38826.9	39437.1	35504.7
75°	809.1	885.9	1139.0	1857.7	3236.3	7842.2	19693.7	27563.1	28462.5	24471.4
77.5°	537.9	574.0	736.8	1202.3	1821.6	2675.8	8416.3	14360.1	16077.7	13365.7
80°	361.6	393.2	506.2	804.6	1184.2	1148.1	2680.4	5320.1	6545.0	4592.3
82.5°	244.1	248.6	361.6	528.8	750.3	556.0	791.0	1654.3	2079.2	1328.9
85°	140.1	135.6	266.7	307.4	334.5	230.5	239.6	497.2	650.9	560.5
87.5°	18.1	27.1	104.0	81.4	45.2	49.7	49.7	85.9	126.6	135.6
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°
7842.2	0°	7842.2	7842.2	7842.2	7842.2	7842.2	7842.2	7842.2	7842.2	7842.2	7842.2
7851.3	2.5°	7851.3	7846.7	7833.2	7819.6	7788.0	7769.9	7778.9	7769.9	7765.4	7769.9
7910.0	5°	7910.0	7896.5	7860.3	7815.1	7751.8	7675.0	7625.3	7552.9	7485.1	7444.5
8068.2	7.5°	8068.2	8054.7	8004.9	7878.4	7675.0	7354.1	7060.3	6802.6	6608.3	6495.3
8321.3	10°	8321.3	8298.7	8221.9	7941.7	7408.3	6707.7	6124.6	5641.0	5324.6	5175.4
8619.7	12.5°	8619.7	8592.6	8456.9	7882.9	6902.1	5808.2	5003.7	4465.8	4172.0	4040.9
8963.2	15°	8972.2	8936.1	8669.4	7602.7	6165.3	4813.8	4077.1	3674.8	3484.9	3367.4
9401.6	17.5°	9410.7	9347.4	8827.6	7182.3	5365.3	4054.5	3507.5	3204.7	3037.5	2924.5
9975.7	20°	9980.2	9876.2	8954.2	6680.6	4628.5	3575.3	3123.3	2870.2	2743.6	2644.2
10789.3	22.5°	10775.7	10626.6	9107.8	6138.2	4108.7	3245.4	2838.6	2653.2	2549.3	2436.3
11923.8	25°	11761.1	11584.8	9297.7	5636.5	3751.6	2960.6	2630.6	2477.0	2354.9	2223.8
13410.9	27.5°	13139.7	12823.3	9523.7	5225.1	3444.3	2716.5	2440.8	2269.0	2128.9	2020.4
15096.9	30°	14676.5	14156.7	9722.6	4976.5	3164.0	2490.5	2192.2	2020.4	1889.4	1812.5
16611.1	32.5°	16131.9	15426.8	9853.6	4868.1	2910.9	2232.9	1921.0	1735.7	1636.2	1613.6
18093.6	35°	17506.0	16574.9	9840.1	4764.1	2684.9	1975.2	1654.3	1464.5	1387.6	1401.2
19689.2	37.5°	19088.0	17799.8	9745.2	4601.4	2499.6	1740.2	1423.8	1256.6	1188.8	1193.3
21628.3	40°	20927.7	19214.6	9686.4	4294.0	2296.2	1523.2	1234.0	1098.4	1048.6	1030.6
23671.3	42.5°	22889.4	20584.2	9695.4	3946.0	2043.0	1328.9	1102.9	989.9	944.7	931.1
25944.9	45°	24860.1	21890.4	9709.0	3584.4	1776.4	1179.7	1008.0	913.0	885.9	867.8
28250.1	47.5°	26713.3	23002.4	9455.9	3195.7	1514.2	1066.7	931.1	867.8	845.2	822.6
30564.3	50°	28439.9	23743.6	8845.7	2743.6	1306.3	976.3	872.4	827.2	804.6	782.0
32661.6	52.5°	29782.4	23861.2	7837.7	2278.1	1161.6	908.5	836.2	795.5	768.4	745.8
34356.6	55°	30379.0	23124.4	6404.9	1844.2	1048.6	849.8	800.0	759.4	727.7	705.1
35690.0	57.5°	30225.3	21574.0	4994.6	1482.6	940.2	791.0	754.8	727.7	691.6	655.4
36770.3	60°	29470.5	19499.3	3765.2	1234.0	840.7	727.7	705.1	682.5	632.8	578.6
37186.2	62.5°	28164.2	16891.3	2684.9	1021.5	732.2	655.4	646.4	628.3	556.0	456.5
36571.4	65°	26166.4	13722.8	1808.0	849.8	628.3	574.0	578.6	546.9	452.0	339.0
34320.5	67.5°	23246.4	10034.4	1157.1	696.1	524.3	479.1	483.6	465.6	384.2	289.3
30053.6	70°	19526.5	6644.4	754.8	528.8	420.4	370.6	397.8	402.3	325.4	235.0
23065.6	72.5°	14314.9	3923.4	528.8	393.2	307.4	257.6	325.4	334.5	262.2	176.3
13876.4	75°	8158.6	1862.2	397.8	284.8	189.8	180.8	253.1	253.1	180.8	117.5
6007.1	77.5°	3426.2	777.4	280.2	185.3	108.5	104.0	171.8	158.2	90.4	54.2
1464.5	80°	989.9	348.0	149.2	90.4	45.2	40.7	67.8	49.7	22.6	9.0
556.0	82.5°	388.7	153.7	58.8	36.2	18.1	18.1	9.0	0.0	0.0	0.0
316.4	85°	230.5	63.3	27.1	13.6	4.5	0.0	0.0	0.0	0.0	0.0
67.8	87.5°	58.8	13.6	9.0	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°
7842.2
7788.0
7453.5
6499.8
5161.9
4027.3
3371.9
2915.4
2626.1
2418.2
2210.3
1997.8
1799.0
1627.2
1401.2
1211.4
1026.0
926.6
867.8
822.6
782.0
741.3
700.6
650.9
569.5
447.5
330.0
275.7
226.0
167.2
108.5
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