

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: P944082

Luminaire Tested: **GALN-SB8D-840-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944082  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-840-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

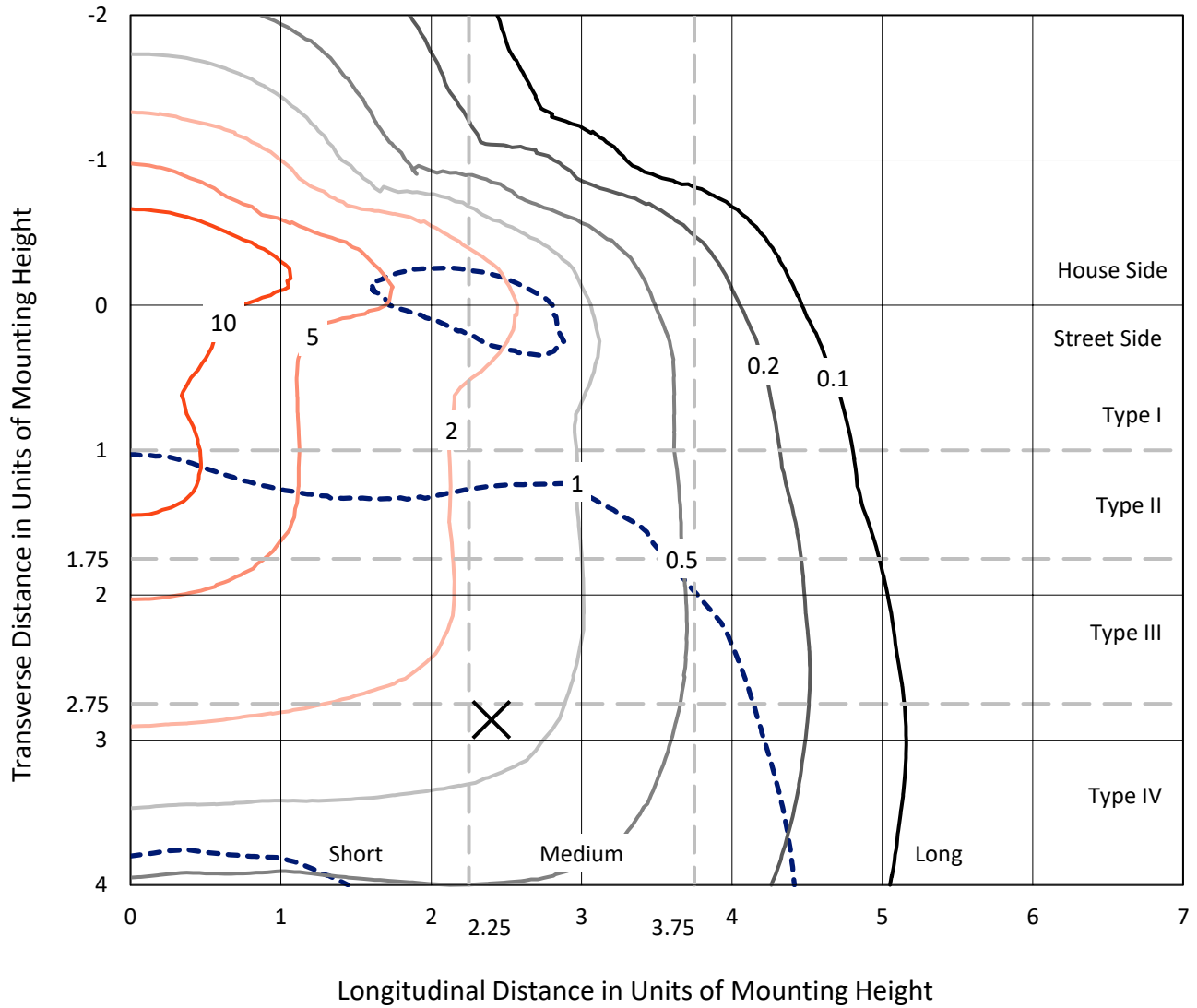
Lumens per Lamp: N/A  
Luminaire Lumens: 78020 lumens  
Efficiency: N/A  
Efficacy: 133.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

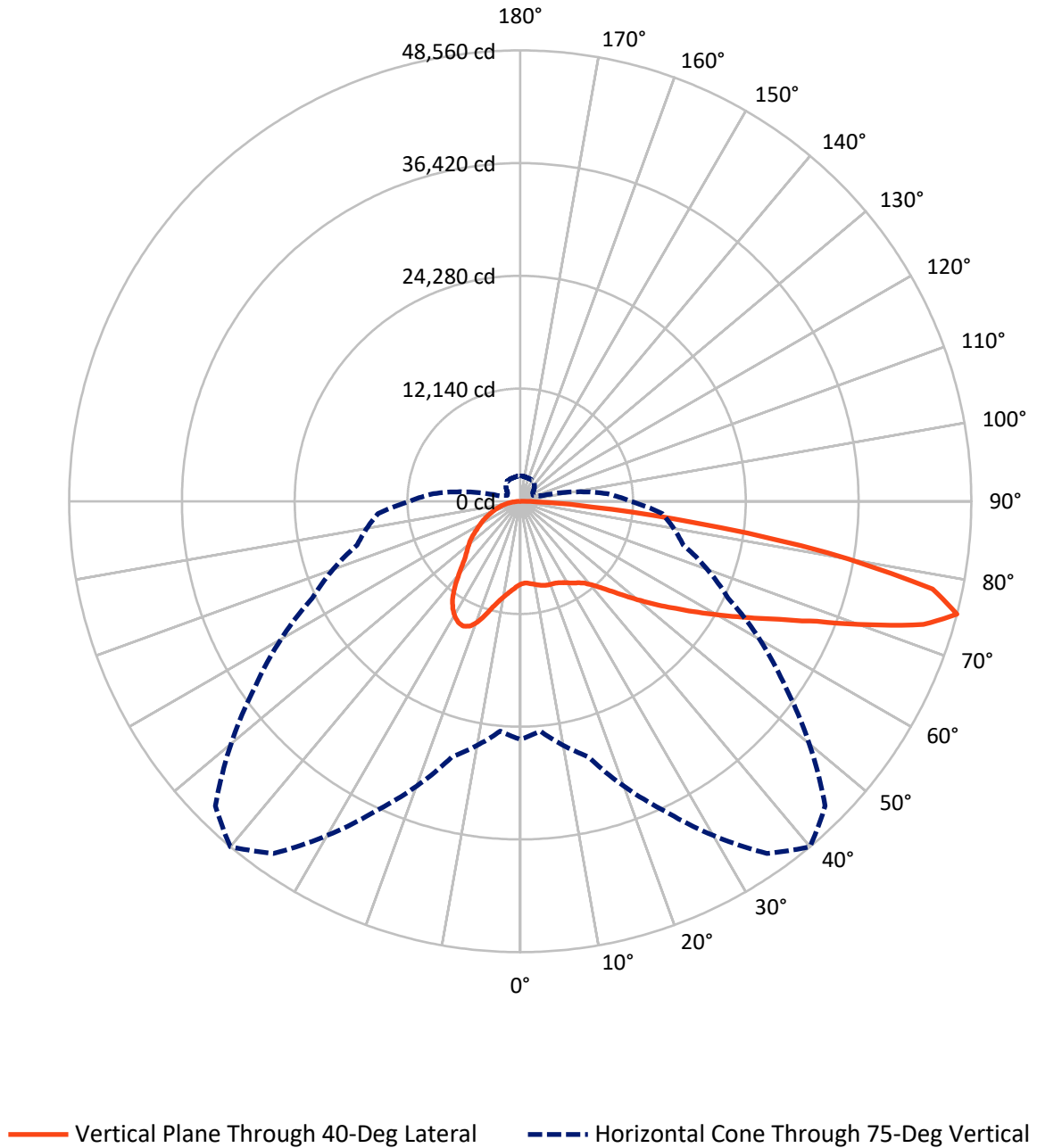
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24173.2	0.0	24173.2
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	53846.8	0.0	53846.8
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	78020.0	0.0	78020.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	890.6	1.1
10°-20°	2990.0	3.8
20°-30°	5459.5	7.0
30°-40°	7743.1	9.9
40°-50°	10455.5	13.4
50°-60°	14065.4	18.0
60°-70°	17852.2	22.9
70°-80°	16202.0	20.8
80°-90°	2361.7	3.0
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°	78020.0	100.0
0°-180°	78020.0	100.0

**Coefficient of Utilization**

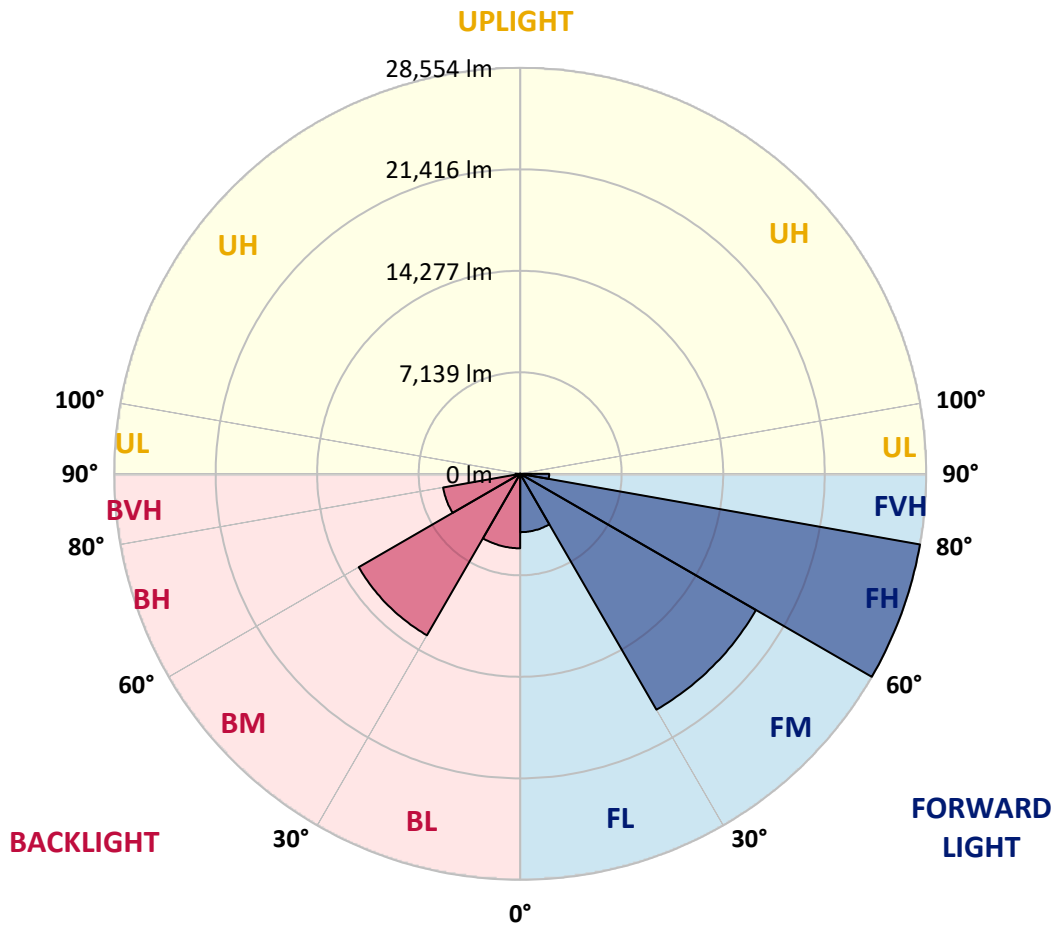


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4103.9	5.3			
FM (30°-60°)	19152.2	24.5			
FH (60°-80°)	28554.1	36.6			G5
FVH (80°-90°)	2036.6	2.6			G5
BL (0°-30°)	5236.1	6.7	B5		
BM (30°-60°)	13111.8	16.8	B5		
BH (60°-80°)	5500.1	7.0	B5		G5
BVH (80°-90°)	325.2	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	8921.7	8921.7	8921.7	8921.7	8921.7	8921.7	8921.7	8921.7	8921.7	8921.7
2.5°	8785.1	8834.8	8822.4	8805.8	8805.8	8810.0	8805.8	8834.8	8863.8	8892.7
5°	8876.2	8925.8	8901.0	8880.3	8863.8	8859.6	8847.2	8843.1	8859.6	8896.9
7.5°	9054.1	9103.8	9066.5	9029.3	8996.2	8979.6	8963.1	8938.2	8925.8	8946.5
10°	9252.7	9302.4	9256.9	9190.7	9136.9	9116.2	9099.6	9074.8	9058.2	9070.7
12.5°	9451.4	9501.0	9439.0	9347.9	9277.6	9265.2	9244.5	9236.2	9232.0	9227.9
15°	9637.6	9679.0	9600.3	9492.7	9418.3	9397.6	9376.9	9389.3	9410.0	9434.8
17.5°	9782.4	9823.8	9707.9	9567.2	9496.9	9488.6	9476.2	9517.6	9575.5	9637.6
20°	9914.8	9956.2	9807.2	9616.9	9534.1	9534.1	9538.3	9625.2	9707.9	9799.0
22.5°	10101.0	10134.1	9952.1	9691.4	9571.4	9579.6	9612.7	9699.6	9803.1	9927.2
25°	10378.3	10403.1	10179.7	9832.1	9695.5	9720.3	9749.3	9790.7	9890.0	10034.8
27.5°	10825.2	10845.9	10552.1	10080.4	9873.4	9914.8	9956.2	9927.2	9972.8	10096.9
30°	11454.2	11466.6	11094.2	10469.3	10175.5	10196.2	10204.5	10084.5	9997.6	10096.9
32.5°	12199.0	12194.9	11752.1	10941.1	10519.0	10498.3	10428.0	10192.1	9989.3	10076.2
35°	13353.6	13308.1	12737.0	11603.2	10908.0	10779.7	10614.2	10312.1	10030.7	10055.5
37.5°	15265.4	15124.7	14334.3	12687.3	11487.3	11160.4	10916.2	10506.6	10121.7	10047.2
40°	17421.3	17243.4	16374.4	14172.9	12356.3	11830.8	11437.6	10783.8	10270.7	10084.5
42.5°	19978.6	19726.2	18791.0	15923.3	13457.0	12695.6	12103.9	11135.6	10490.0	10204.5
45°	23119.4	22784.2	21460.1	17897.2	14843.3	13829.4	13039.1	11669.4	10825.2	10436.2
47.5°	26293.3	26376.1	24493.3	20156.6	16506.8	15228.1	14210.2	12472.2	11313.5	10808.7
50°	29665.9	29723.8	27509.9	22660.1	18393.7	16808.9	15526.1	13370.1	11992.1	11338.3
52.5°	32297.7	32306.0	30249.3	25279.5	20359.3	18546.9	16945.4	14396.4	12778.4	12041.8
55°	33944.6	33923.9	32169.4	27758.2	22618.7	20371.7	18517.9	15563.3	13738.4	12869.4
57.5°	35140.5	35078.5	33493.6	29889.3	25027.1	22527.7	20297.3	16887.5	14872.2	13854.3
60°	35595.7	35558.5	34391.5	31730.8	27559.6	24911.2	22349.7	18368.9	16159.2	15017.1
62.5°	35769.5	35839.9	35273.0	33514.3	30270.0	27551.3	24605.0	20140.0	17607.5	16333.0
65°	36382.0	36510.2	36394.4	35848.1	33332.2	30642.4	27596.8	22246.3	19188.3	17744.1
67.5°	37594.4	37722.7	37772.4	38641.3	37073.0	34495.0	31329.4	24869.8	21038.0	19208.9
70°	37565.5	37528.2	38405.5	40863.5	41757.3	39829.0	36361.3	28097.5	23243.6	20425.5
72.5°	34192.9	33895.0	35968.2	40838.7	45655.4	45398.8	42506.3	32260.4	25147.1	20574.5
75°	25651.9	24857.4	28519.6	36804.0	46305.1	48560.3	46412.7	34842.6	24696.0	18178.6
77.5°	10970.0	10171.4	14487.4	27245.1	41442.8	45394.7	42829.1	30398.3	19713.8	12021.1
80°	2871.8	2867.7	4378.1	12352.2	28184.4	33522.6	29409.3	19631.0	11263.8	4295.3
82.5°	1187.6	1158.7	1609.7	4804.3	13771.5	18811.7	15352.3	8756.2	4067.7	1162.8
85°	442.8	438.6	782.1	1659.4	4858.1	7758.9	5615.4	2238.7	1013.8	566.9
87.5°	124.1	120.0	169.7	575.2	1183.5	1795.9	960.0	368.3	285.5	223.5
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°
8921.7	0°	8921.7	8921.7	8921.7	8921.7	8921.7	8921.7	8921.7	8921.7	8921.7	8921.7
8938.2	2.5°	8950.7	8971.3	9008.6	9037.6	9074.8	9116.2	9174.1	9211.4	9248.6	9273.4
8958.9	5°	8987.9	9033.4	9128.6	9223.8	9335.5	9439.0	9559.0	9645.9	9716.2	9736.9
9033.4	7.5°	9070.7	9145.1	9306.5	9467.9	9645.9	9815.5	9989.3	10138.3	10258.3	10303.8
9165.8	10°	9215.5	9314.8	9542.4	9770.0	10005.9	10266.6	10490.0	10705.2	10874.9	10945.2
9323.1	12.5°	9397.6	9521.7	9819.7	10134.1	10461.1	10821.1	11110.7	11375.6	11586.6	11681.8
9542.4	15°	9633.4	9794.8	10175.5	10597.6	11077.6	11578.3	11946.6	12240.4	12476.3	12592.2
9770.0	17.5°	9890.0	10105.2	10585.2	11222.5	11909.4	12567.3	12997.7	13212.9	13457.0	13568.7
9981.0	20°	10138.3	10403.1	11090.0	12017.0	12931.5	13630.8	13978.4	14036.4	14052.9	14065.3
10179.7	22.5°	10394.8	10750.7	11723.2	13018.4	13999.1	14483.3	14532.9	14284.6	13937.0	13775.7
10374.2	25°	10676.2	11148.0	12550.8	14123.3	14917.8	14975.7	14595.0	13990.8	13332.9	13030.8
10531.4	27.5°	10949.3	11607.3	13543.9	15178.5	15579.9	15070.9	14251.5	13395.0	12600.4	12281.8
10643.1	30°	11222.5	12132.8	14640.5	16101.3	15881.9	14835.0	13709.4	12753.5	11954.9	11619.7
10742.4	32.5°	11499.7	12745.3	15902.6	16767.5	15828.1	14334.3	13034.9	12033.5	11330.1	10978.3
10829.3	35°	11814.2	13498.4	17098.5	17131.6	15468.1	13597.7	12145.3	11172.8	10560.4	10279.0
10932.8	37.5°	12223.9	14454.3	18153.7	17222.7	14839.1	12517.7	11040.4	10154.8	9650.0	9521.7
11085.9	40°	12732.9	15604.7	18960.7	17077.8	13908.1	11205.9	9832.1	9124.5	8838.9	8867.9
11292.8	42.5°	13395.0	16891.6	19527.6	16705.4	12612.9	9852.8	8772.7	8458.2	8594.8	8710.6
11603.2	45°	14255.7	18228.2	19879.3	16072.3	11148.0	8706.5	8147.9	8222.4	8325.8	8338.2
12103.9	47.5°	15356.4	19581.4	20111.0	15116.4	9654.1	7899.6	7750.6	7767.2	7746.5	7659.6
12852.9	50°	16730.2	20897.3	20318.0	13850.1	8383.7	7394.7	7196.1	7138.2	6852.7	6571.3
13850.1	52.5°	18294.4	22105.6	20404.9	12277.7	7394.7	6972.7	6649.9	6285.7	5751.9	5665.0
15104.0	55°	20032.4	23222.9	20181.4	10345.2	6563.0	6430.6	5942.3	5503.6	5445.7	5371.2
16755.1	57.5°	22109.7	24427.1	19726.2	8189.3	5710.5	5797.4	5321.6	5371.2	5267.8	5151.9
18877.9	60°	24381.5	25672.6	18927.6	6223.7	4829.1	5007.1	5160.2	5156.0	5127.1	5031.9
21116.6	62.5°	26425.8	26492.0	17355.1	4767.1	4055.3	4394.6	4812.6	4808.4	4783.6	4729.8
23454.6	65°	27642.3	26367.8	14731.5	3753.2	3418.1	3889.8	4340.8	4373.9	4378.1	4373.9
25213.3	67.5°	27427.2	24915.4	11131.4	2987.7	2892.5	3376.7	3873.2	3918.8	3951.9	3960.1
25436.8	70°	24994.0	21724.9	7258.2	2383.5	2424.9	2925.6	3430.5	3476.0	3505.0	3538.1
22072.5	72.5°	19482.1	15973.0	4154.6	1928.3	2015.2	2536.6	2991.8	3045.6	3062.2	3124.2
15360.5	75°	11872.1	9393.4	2242.8	1518.7	1655.2	2168.4	2557.3	2619.4	2648.4	2722.9
7543.7	77.5°	5644.3	4067.7	1278.7	1183.5	1332.5	1771.1	2160.1	2230.4	2151.8	2193.2
2081.5	80°	1907.7	1510.4	806.9	902.1	1018.0	1382.1	1729.7	1800.1	1634.5	1626.3
691.1	82.5°	666.2	612.4	513.1	600.0	658.0	989.0	1307.6	1398.7	1216.6	1212.5
310.4	85°	260.7	248.3	285.5	326.9	393.1	608.3	860.7	906.2	749.0	604.2
91.0	87.5°	53.8	57.9	70.3	74.5	120.0	211.0	310.4	380.7	302.1	256.6
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°  
8921.7  
9256.9  
9745.2  
10307.9  
10949.3  
11681.8  
12583.9  
13564.6  
14098.4  
13821.2  
13076.3  
12319.1  
11657.0  
11023.8  
10341.1  
9612.7  
8967.2  
8818.2  
8421.0  
7725.8  
6608.5  
5694.0  
5383.6  
5131.2  
4998.8  
4709.1  
4373.9  
3968.4  
3554.6  
3149.1  
*2731.1*  
2160.1  
1609.7  
1154.5  
595.9  
235.9  
0.0

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