

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: P944422

Luminaire Tested: **GALN-SB9B-840-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944422
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-SB9B-840-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48631 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

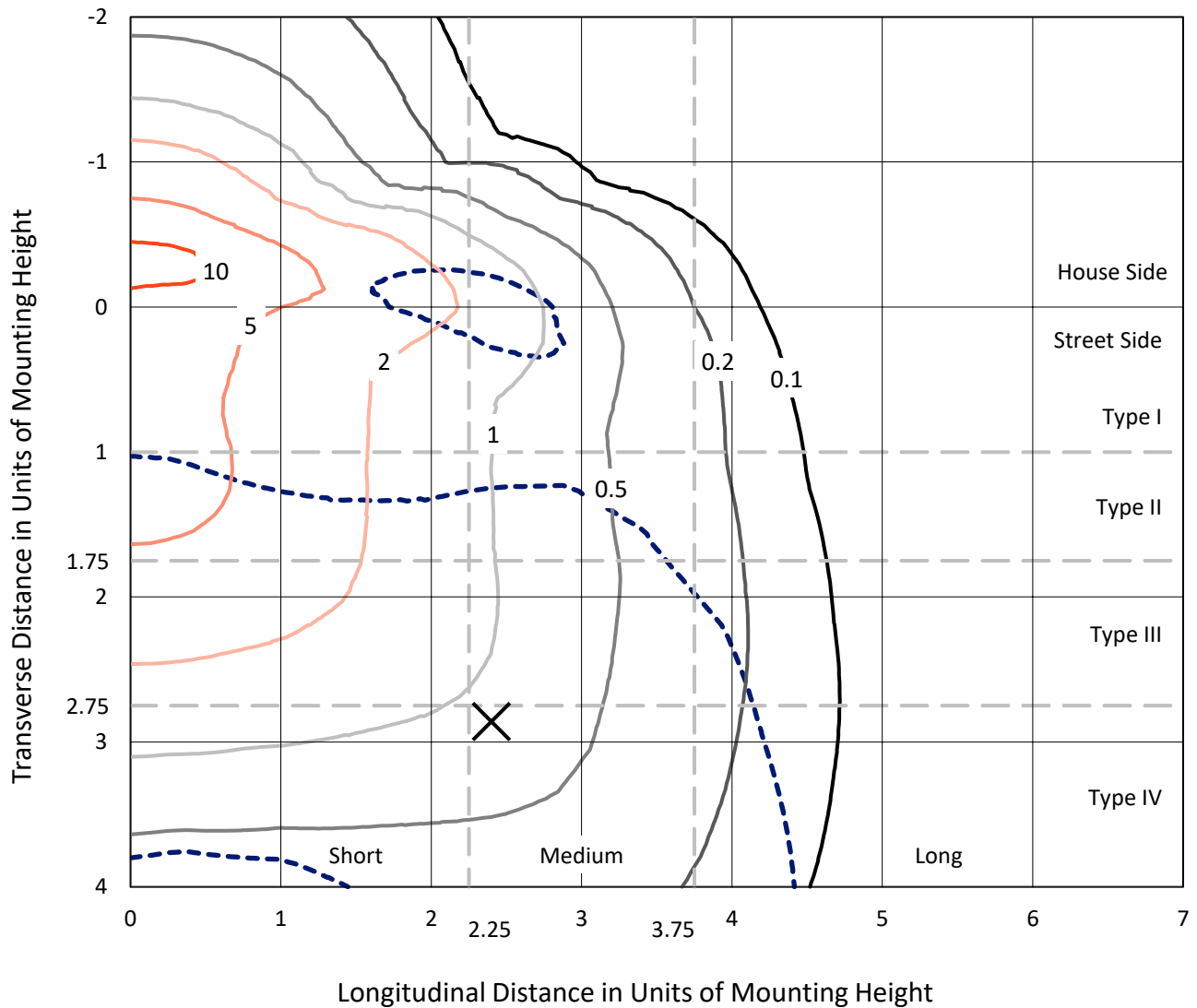
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

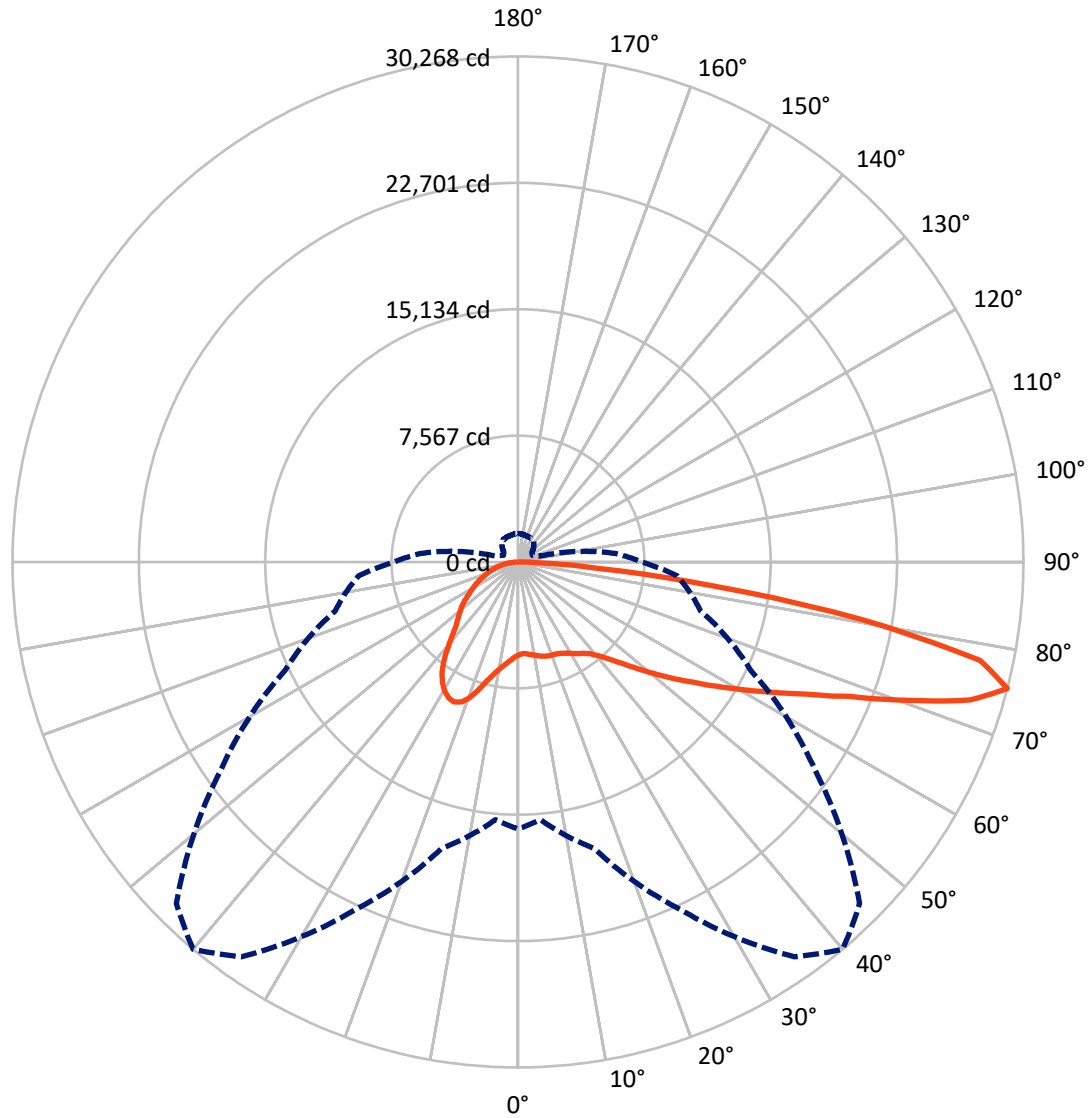
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15067.5	0.0	15067.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	33563.5	0.0	33563.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	48631.0	0.0	48631.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.1	1.1
10°-20°	1863.7	3.8
20°-30°	3403.0	7.0
30°-40°	4826.4	9.9
40°-50°	6517.1	13.4
50°-60°	8767.2	18.0
60°-70°	11127.6	22.9
70°-80°	10098.9	20.8
80°-90°	1472.1	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°	48631.0	100.0
0°-180°	48631.0	100.0

Coefficient of Utilization



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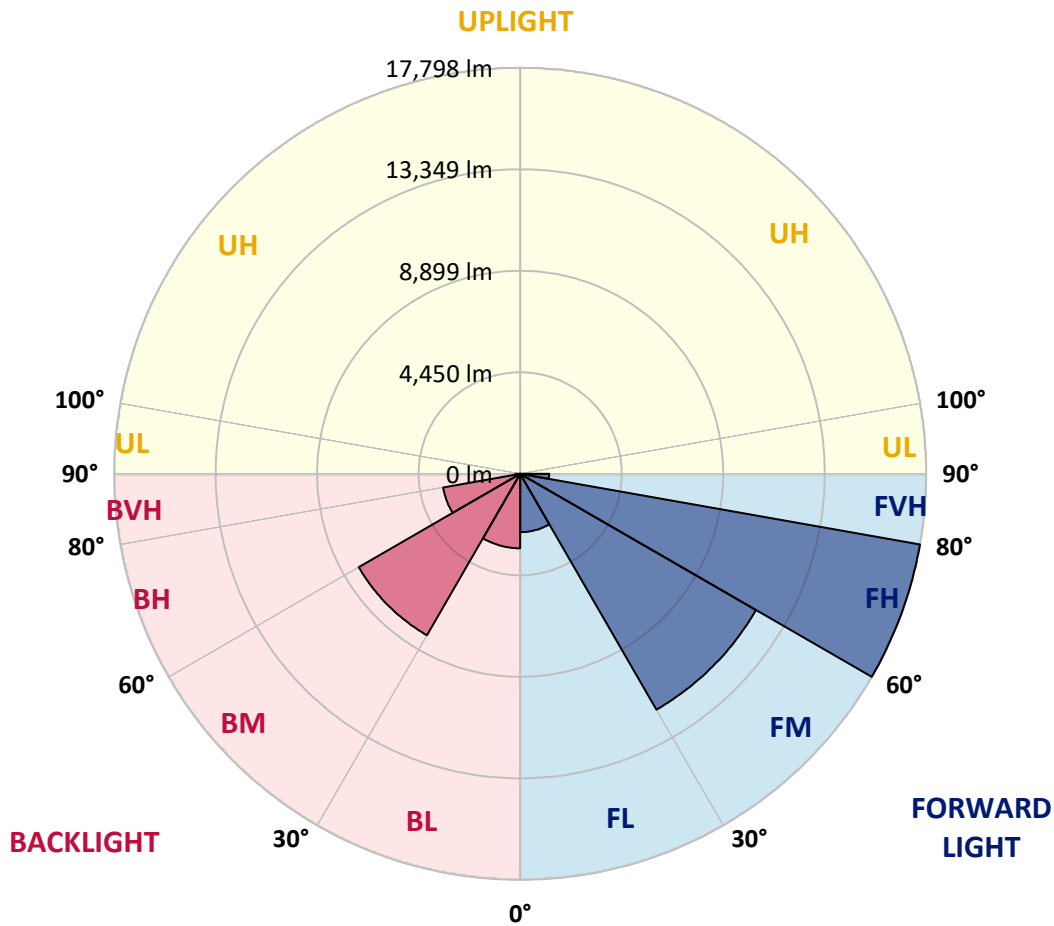
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2558.0	5.3			
FM (30°-60°)	11937.8	24.5			
FH (60°-80°)	17798.2	36.6			G5
FVH (80°-90°)	1269.4	2.6			G5
BL (0°-30°)	3263.8	6.7	B4/5000		
BM (30°-60°)	8172.8	16.8	B4/8500		
BH (60°-80°)	3428.3	7.0	B4/5000		G4/5000
BVH (80°-90°)	202.7	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	5561.0	5561.0	5561.0	5561.0	5561.0	5561.0	5561.0	5561.0	5561.0	5561.0
2.5°	5475.9	5506.9	5499.1	5488.8	5488.8	5491.4	5488.8	5506.9	5524.9	5543.0
5°	5532.6	5563.6	5548.1	5535.2	5524.9	5522.3	5514.6	5512.0	5522.3	5545.5
7.5°	5643.6	5674.5	5651.3	5628.1	5607.4	5597.1	5586.8	5571.3	5563.6	5576.5
10°	5767.4	5798.3	5769.9	5728.7	5695.1	5682.2	5671.9	5656.5	5646.1	5653.9
12.5°	5891.2	5922.1	5883.4	5826.7	5782.8	5775.1	5762.2	5757.0	5754.5	5751.9
15°	6007.2	6033.0	5984.0	5917.0	5870.5	5857.6	5844.7	5852.5	5865.4	5880.9
17.5°	6097.5	6123.3	6051.1	5963.4	5919.5	5914.4	5906.6	5932.4	5968.6	6007.2
20°	6180.1	6205.9	6113.0	5994.3	5942.8	5942.8	5945.3	5999.5	6051.1	6107.8
22.5°	6296.1	6316.8	6203.3	6040.8	5966.0	5971.1	5991.8	6045.9	6110.4	6187.8
25°	6468.9	6484.4	6345.1	6128.5	6043.4	6058.8	6076.9	6102.7	6164.6	6254.9
27.5°	6747.5	6760.4	6577.3	6283.2	6154.3	6180.1	6205.9	6187.8	6216.2	6293.5
30°	7139.6	7147.3	6915.2	6525.7	6342.6	6355.5	6360.6	6285.8	6231.6	6293.5
32.5°	7603.8	7601.3	7325.3	6819.7	6556.6	6543.7	6499.9	6352.9	6226.5	6280.7
35°	8323.5	8295.1	7939.2	7232.4	6799.1	6719.1	6616.0	6427.7	6252.3	6267.8
37.5°	9515.1	9427.4	8934.8	7908.2	7160.2	6956.4	6804.3	6548.9	6309.0	6262.6
40°	10858.9	10748.0	10206.4	8834.2	7701.9	7374.3	7129.2	6721.7	6401.9	6285.8
42.5°	12453.0	12295.6	11712.7	9925.2	8388.0	7913.4	7544.5	6941.0	6538.6	6360.6
45°	14410.7	14201.8	13376.4	11155.6	9252.0	8620.1	8127.4	7273.7	6747.5	6505.1
47.5°	16389.0	16440.6	15267.0	12563.9	10288.9	9491.9	8857.4	7774.1	7051.9	6737.2
50°	18491.2	18527.3	17147.3	14124.4	11465.1	10477.2	9677.6	8333.8	7474.9	7067.3
52.5°	20131.6	20136.8	18854.8	15757.1	12690.3	11560.5	10562.3	8973.5	7964.9	7505.8
55°	21158.2	21145.3	20051.7	17302.1	14098.6	12698.0	11542.5	9700.8	8563.4	8021.7
57.5°	21903.6	21864.9	20877.0	18630.4	15599.7	14041.8	12651.6	10526.2	9270.1	8635.6
60°	22187.3	22164.1	21436.8	19778.2	17178.3	15527.5	13930.9	11449.6	10072.3	9360.4
62.5°	22295.7	22339.5	21986.1	20889.9	18867.7	17173.1	15336.7	12553.6	10975.0	10180.6
65°	22677.4	22757.4	22685.1	22344.7	20776.4	19099.9	17201.5	13866.4	11960.3	11060.1
67.5°	23433.1	23513.1	23544.1	24085.7	23108.2	21501.2	19528.1	15501.7	13113.3	11973.2
70°	23415.1	23391.9	23938.7	25470.8	26027.9	24826.0	22664.5	17513.6	14488.1	12731.5
72.5°	21312.9	21127.2	22419.5	25455.3	28457.7	28297.7	26494.8	20108.4	15674.5	12824.4
75°	15989.2	15494.0	17776.7	22940.5	28862.6	30268.4	28929.7	21717.9	15393.4	11331.0
77.5°	6837.8	6340.0	9030.2	16982.3	25831.9	28295.2	26696.0	18947.7	12287.9	7492.9
80°	1790.0	1787.5	2728.9	7699.3	17567.8	20895.1	18331.2	12236.3	7020.9	2677.3
82.5°	740.3	722.2	1003.4	2994.6	8584.0	11725.6	9569.3	5457.8	2535.5	724.8
85°	276.0	273.4	487.5	1034.3	3028.1	4836.2	3500.1	1395.4	631.9	353.4
87.5°	77.4	74.8	105.8	358.5	737.7	1119.4	598.4	229.6	178.0	139.3
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°
5561.0	0°	5561.0	5561.0	5561.0	5561.0	5561.0	5561.0	5561.0	5561.0	5561.0	5561.0
5571.3	2.5°	5579.1	5592.0	5615.2	5633.2	5656.5	5682.2	5718.4	5741.6	5764.8	5780.3
5584.2	5°	5602.3	5630.7	5690.0	5749.3	5819.0	5883.4	5958.2	6012.4	6056.2	6069.1
5630.7	7.5°	5653.9	5700.3	5800.9	5901.5	6012.4	6118.2	6226.5	6319.3	6394.1	6422.5
5713.2	10°	5744.2	5806.1	5947.9	6089.8	6236.8	6399.3	6538.6	6672.7	6778.5	6822.3
5811.2	12.5°	5857.6	5935.0	6120.7	6316.8	6520.5	6744.9	6925.5	7090.6	7222.1	7281.4
5947.9	15°	6004.7	6105.3	6342.6	6605.6	6904.8	7216.9	7446.5	7629.6	7776.7	7848.9
6089.8	17.5°	6164.6	6298.7	6597.9	6995.1	7423.3	7833.4	8101.7	8235.8	8388.0	8457.6
6221.3	20°	6319.3	6484.4	6912.6	7490.4	8060.4	8496.3	8713.0	8749.1	8759.4	8767.1
6345.1	22.5°	6479.3	6701.1	7307.2	8114.5	8725.8	9027.6	9058.6	8903.8	8687.2	8586.6
6466.4	25°	6654.7	6948.7	7823.1	8803.2	9298.5	9334.6	9097.3	8720.7	8310.6	8122.3
6564.4	27.5°	6824.9	7235.0	8442.1	9461.0	9711.1	9393.9	8883.2	8349.3	7854.0	7655.4
6634.0	30°	6995.1	7562.6	9125.6	10036.1	9899.4	9246.9	8545.3	7949.5	7451.7	7242.7
6695.9	32.5°	7167.9	7944.3	9912.3	10451.4	9865.9	8934.8	8124.9	7500.7	7062.2	6842.9
6750.1	35°	7364.0	8413.8	10657.8	10678.4	9641.5	8475.7	7570.3	6964.2	6582.4	6407.0
6814.6	37.5°	7619.3	9009.6	11315.5	10735.1	9249.5	7802.5	6881.6	6329.7	6015.0	5935.0
6910.0	40°	7936.6	9726.6	11818.5	10644.9	8669.1	6984.8	6128.5	5687.4	5509.4	5527.5
7039.0	42.5°	8349.3	10528.8	12171.8	10412.7	7861.8	6141.4	5468.2	5272.1	5357.3	5429.5
7232.4	45°	8885.8	11361.9	12391.1	10018.1	6948.7	5426.9	5078.7	5125.1	5189.6	5197.3
7544.5	47.5°	9571.9	12205.4	12535.5	9422.3	6017.6	4923.9	4831.1	4841.4	4828.5	4774.3
8011.4	50°	10428.2	13025.6	12664.5	8633.0	5225.7	4609.2	4485.4	4449.3	4271.4	4096.0
8633.0	52.5°	11403.2	13778.7	12718.6	7652.9	4609.2	4346.2	4145.0	3918.0	3585.3	3531.1
9414.5	55°	12486.5	14475.2	12579.4	6448.3	4090.8	4008.3	3703.9	3430.5	3394.4	3348.0
10443.7	57.5°	13781.3	15225.7	12295.6	5104.5	3559.5	3613.6	3317.0	3348.0	3283.5	3211.3
11766.9	60°	15197.4	16002.1	11797.8	3879.3	3010.1	3121.0	3216.4	3213.8	3195.8	3136.5
13162.3	62.5°	16471.6	16512.8	10817.7	2971.4	2527.7	2739.2	2999.8	2997.2	2981.7	2948.2
14619.6	65°	17229.9	16435.4	9182.4	2339.4	2130.5	2424.6	2705.7	2726.3	2728.9	2726.3
15715.8	67.5°	17095.8	15530.1	6938.4	1862.3	1802.9	2104.7	2414.2	2442.6	2463.3	2468.4
15855.1	70°	15579.1	13541.4	4524.1	1485.7	1511.5	1823.6	2138.3	2166.6	2184.7	2205.3
13758.1	72.5°	12143.5	9956.2	2589.6	1202.0	1256.1	1581.1	1864.9	1898.4	1908.7	1947.4
9574.4	75°	7400.1	5855.1	1398.0	946.6	1031.7	1351.6	1594.0	1632.7	1650.8	1697.2
4702.1	77.5°	3518.2	2535.5	797.0	737.7	830.5	1104.0	1346.4	1390.3	1341.2	1367.0
1297.4	80°	1189.1	941.5	503.0	562.3	634.5	861.5	1078.2	1122.0	1018.8	1013.7
430.7	82.5°	415.3	381.7	319.8	374.0	410.1	616.5	815.1	871.8	758.3	755.7
193.4	85°	162.5	154.8	178.0	203.8	245.0	379.2	536.5	564.9	466.9	376.6
56.7	87.5°	33.5	36.1	43.8	46.4	74.8	131.5	193.4	237.3	188.3	159.9
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°
5561.0
5769.9
6074.3
6425.1
6824.9
7281.4
7843.7
8455.0
8787.8
8614.9
8150.7
7678.6
7266.0
6871.3
6445.7
5991.8
5589.4
5496.5
5248.9
4815.6
4119.2
3549.1
3355.7
3198.4
3115.8
2935.3
2726.3
2473.6
2215.6
1962.9
1702.4
1346.4
1003.4
719.6
371.4
147.0
0.0

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