

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: P956694

Luminaire Tested: **GALN-SB9B-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-735-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51190 lumens
Efficiency: N/A
Efficacy: 155.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

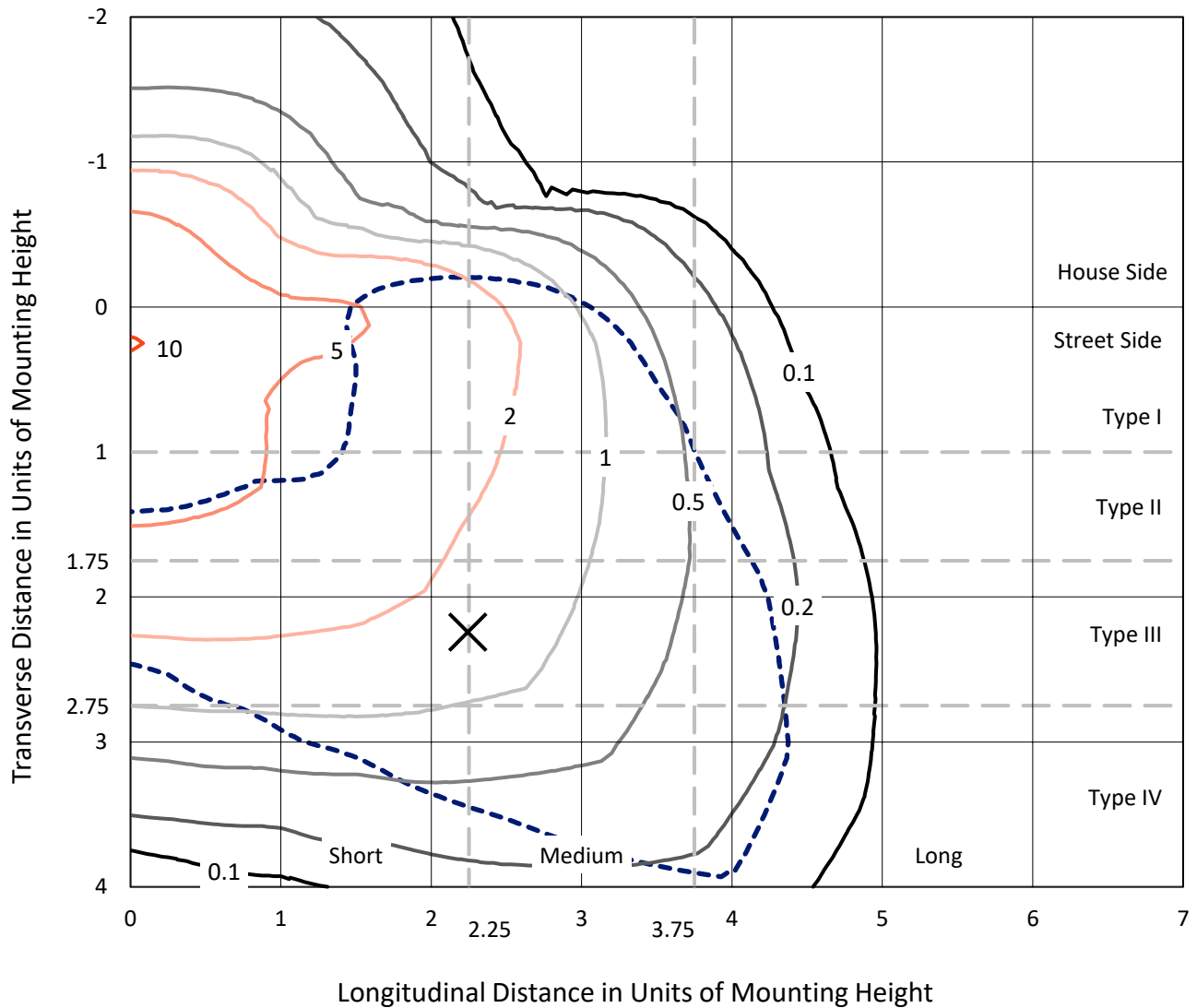
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

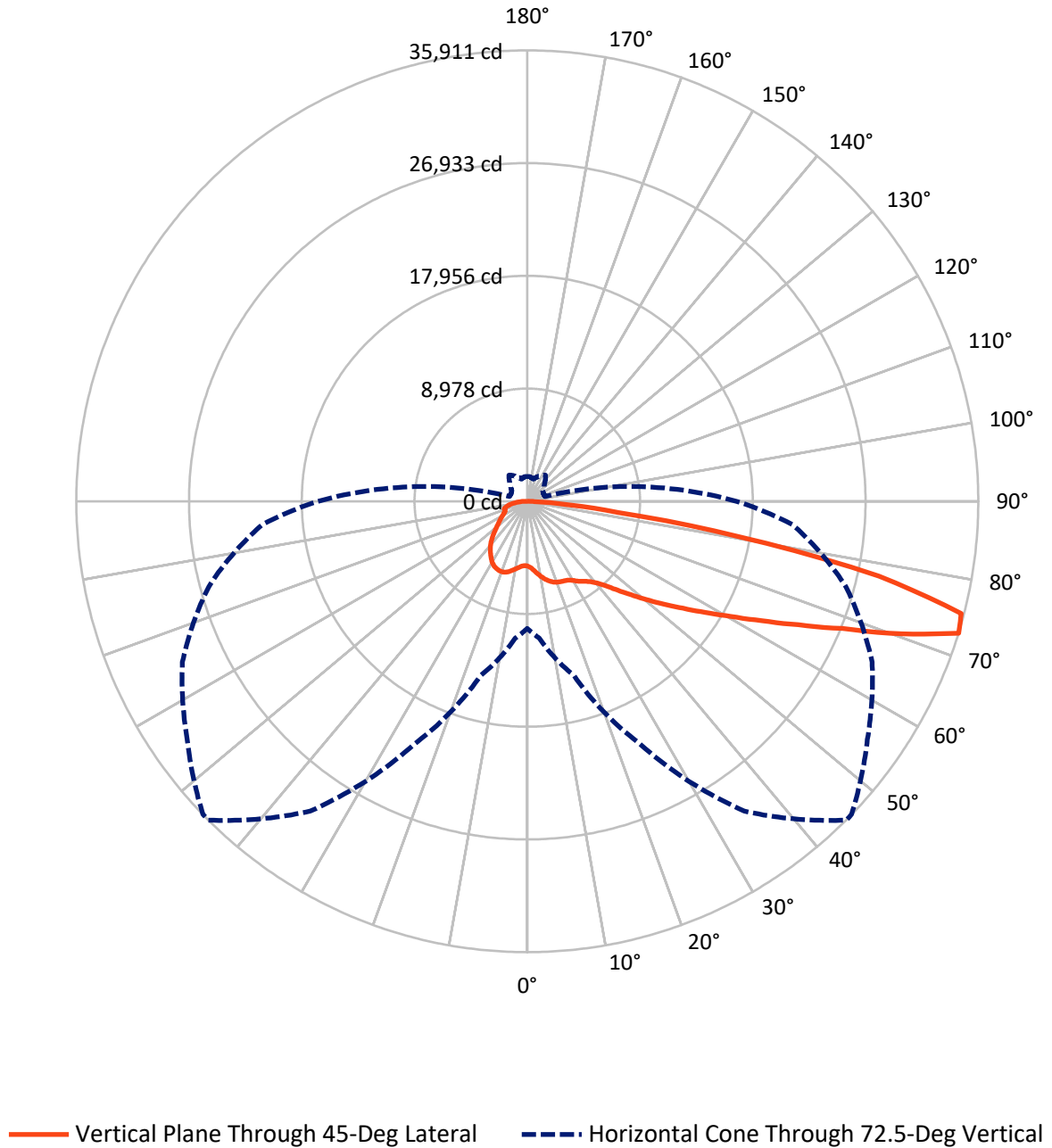
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11572.3	0.0	11572.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	39617.7	0.0	39617.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	51190.0	0.0	51190.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.6	1.0
10°-20°	1752.4	3.4
20°-30°	3048.4	6.0
30°-40°	4370.1	8.5
40°-50°	6153.4	12.0
50°-60°	9425.1	18.4
60°-70°	13653.7	26.7
70°-80°	10903.3	21.3
80°-90°	1358.0	2.7
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°	51190.0	100.0
0°-180°	51190.0	100.0



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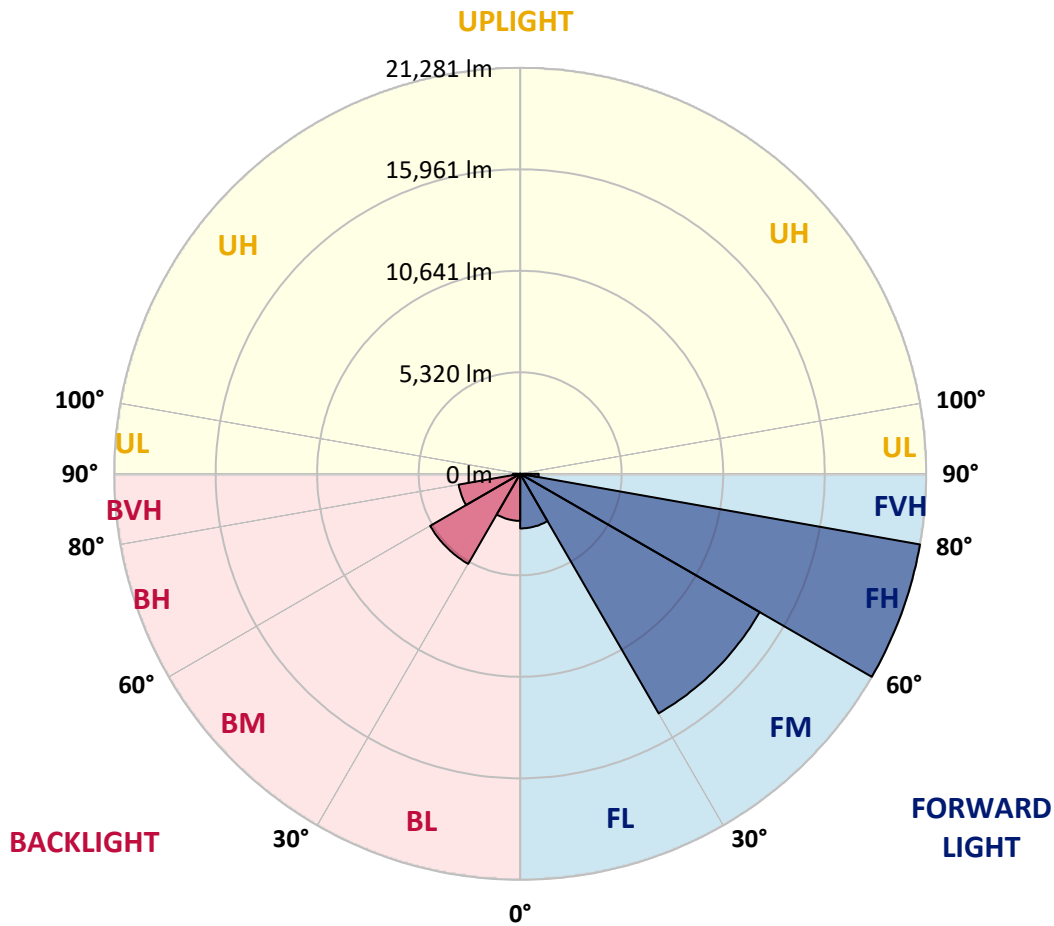
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2862.6	5.6			
FM (30°-60°)	14499.7	28.3			
FH (60°-80°)	21281.2	41.6			G5
FVH (80°-90°)	974.2	1.9			G5
BL (0°-30°)	2463.8	4.8	B3/2500		
BM (30°-60°)	5448.9	10.6	B4/8500		
BH (60°-80°)	3275.8	6.4	B4/5000		G4/5000
BVH (80°-90°)	383.7	0.7			G3/500
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	5164.1	5164.1	5164.1	5164.1	5164.1	5164.1	5164.1	5164.1	5164.1	5164.1
2.5°	5366.3	5401.4	5369.0	5339.4	5325.9	5290.8	5288.1	5266.5	5253.1	5215.3
5°	5741.2	5787.0	5733.1	5673.7	5619.8	5533.5	5522.7	5460.7	5390.6	5309.7
7.5°	6164.5	6205.0	6143.0	6054.0	5959.6	5816.7	5814.0	5700.7	5590.1	5452.6
10°	6534.0	6587.9	6504.3	6383.0	6264.3	6102.5	6083.6	5954.2	5814.0	5636.0
12.5°	6860.3	6898.0	6817.1	6668.8	6531.3	6369.5	6345.2	6202.3	6045.9	5843.6
15°	7119.1	7167.7	7059.8	6900.7	6755.1	6596.0	6574.4	6445.0	6288.6	6075.5
17.5°	7289.0	7329.5	7218.9	7040.9	6900.7	6768.6	6752.4	6644.5	6507.0	6291.3
20°	7353.8	7396.9	7280.9	7100.3	6970.8	6868.4	6860.3	6782.1	6687.7	6490.8
22.5°	7418.5	7458.9	7307.9	7119.1	7005.9	6941.2	6938.5	6887.2	6849.5	6687.7
25°	7680.0	7690.8	7488.6	7216.2	7054.4	6997.8	6995.1	6992.4	7008.6	6881.8
27.5°	7906.6	7903.9	7731.3	7475.1	7224.3	7105.7	7103.0	7129.9	7181.2	7076.0
30°	8238.2	8208.6	8003.6	7736.7	7507.5	7324.1	7307.9	7283.6	7324.1	7240.5
32.5°	8942.1	8847.7	8516.0	8041.4	7742.1	7601.8	7580.3	7429.3	7445.4	7394.2
35°	9950.6	9826.6	9384.3	8618.5	8033.3	7833.8	7823.0	7631.5	7599.1	7553.3
37.5°	11150.6	10996.9	10481.9	9454.4	8534.9	8103.4	8087.2	7914.7	7782.5	7734.0
40°	12356.0	12161.9	11735.8	10473.8	9273.8	8553.8	8502.5	8240.9	8089.9	8009.0
42.5°	13526.4	13364.6	13000.5	11617.1	10185.2	9211.7	9098.5	8650.8	8537.6	8462.1
45°	14561.9	14416.3	14149.3	12838.7	11253.1	10107.0	9996.5	9265.7	9230.6	9230.6
47.5°	15403.2	15370.9	15087.7	14084.6	12512.4	11126.4	10934.9	10120.5	10214.9	10360.5
50°	16336.3	16247.3	15945.3	15311.5	13992.9	12294.0	12137.6	11169.5	11522.8	11921.9
52.5°	17193.8	17242.3	16905.3	16589.8	15664.8	13596.5	13321.4	12407.3	13170.4	13831.1
55°	18075.6	18078.3	17983.9	17940.8	17417.6	15036.5	14734.5	13895.8	15109.3	15929.1
57.5°	18903.5	18908.9	19049.1	19429.3	19450.9	16697.6	16355.2	15724.1	17263.9	18099.9
60°	19642.4	19680.1	20063.0	20952.9	21238.8	18601.5	18277.9	17884.1	19491.3	20332.7
62.5°	19890.5	20028.0	20880.1	22144.8	23005.1	20936.7	20618.5	20383.9	21832.0	22614.1
65°	19469.8	19785.3	21432.9	23129.1	24822.6	23711.6	23396.1	23139.9	24264.4	25000.6
67.5°	18437.0	18844.2	21400.6	24161.9	27028.5	27050.0	26756.1	26154.8	26872.1	27155.2
70°	15716.0	16325.5	19515.6	24547.6	29560.6	31615.5	31332.3	29784.4	29474.3	28104.4
72.5°	10125.9	10945.7	14370.4	21373.6	30124.2	35911.2	35895.0	33060.9	30296.8	26259.9
75°	3694.4	4196.0	6676.9	13415.8	25286.4	35692.8	35798.0	32500.0	27656.8	20284.2
77.5°	1345.6	1472.4	2178.9	5156.0	15551.6	28638.4	28856.8	25982.2	19685.5	10179.8
80°	706.5	776.6	1116.4	2000.9	6663.4	17007.7	17350.2	15441.0	9252.2	3066.1
82.5°	391.0	423.4	625.6	1086.7	3001.4	7272.9	7477.8	6099.8	3254.9	1299.8
85°	210.3	223.8	293.9	593.3	1467.0	2521.4	2578.0	1822.9	1297.1	763.2
87.5°	62.0	75.5	97.1	188.8	574.4	566.3	579.8	361.4	512.4	385.6
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°
5164.1	0°	5164.1	5164.1	5164.1	5164.1	5164.1	5164.1	5164.1	5164.1	5164.1	5164.1
5204.5	2.5°	5188.3	5180.3	5150.6	5137.1	5120.9	5118.2	5131.7	5134.4	5137.1	5139.8
5263.9	5°	5236.9	5209.9	5183.0	5166.8	5172.2	5174.9	5201.8	5220.7	5234.2	5245.0
5374.4	7.5°	5331.3	5309.7	5263.9	5261.2	5269.2	5293.5	5328.6	5371.7	5396.0	5414.9
5517.3	10°	5471.5	5431.0	5377.1	5385.2	5401.4	5436.4	5509.2	5544.3	5584.8	5619.8
5692.6	12.5°	5614.4	5579.4	5517.3	5522.7	5549.7	5611.7	5681.8	5725.0	5751.9	5778.9
5881.4	15°	5800.5	5738.5	5671.0	5671.0	5719.6	5787.0	5819.4	5854.4	5870.6	5900.3
6083.6	17.5°	5991.9	5911.0	5822.1	5816.7	5876.0	5908.3	5927.2	5932.6	5938.0	5970.4
6280.5	20°	6183.4	6094.4	5967.7	5956.9	5970.4	5965.0	5962.3	5956.9	5965.0	6005.4
6482.7	22.5°	6372.2	6269.7	6094.4	6045.9	6008.1	5956.9	5954.2	5951.5	5956.9	5997.3
6701.2	25°	6593.3	6469.3	6234.6	6089.0	5962.3	5892.2	5900.3	5903.0	5908.3	5940.7
6927.7	27.5°	6833.3	6695.8	6364.1	6075.5	5846.3	5797.8	5784.3	5792.4	5811.3	5862.5
7154.2	30°	7073.3	6911.5	6482.7	6021.6	5700.7	5633.3	5590.1	5609.0	5668.3	5719.6
7351.1	32.5°	7291.7	7129.9	6577.1	5903.0	5514.6	5409.5	5352.8	5377.1	5436.4	5455.3
7569.5	35°	7547.9	7364.5	6617.6	5714.2	5312.4	5150.6	5075.1	5040.0	5069.7	5050.8
7825.7	37.5°	7833.8	7642.3	6612.2	5466.1	5075.1	4889.0	4783.8	4651.7	4589.7	4525.0
8203.2	40°	8257.1	7982.1	6547.5	5166.8	4781.2	4611.3	4422.5	4198.7	4058.5	3931.7
8812.6	42.5°	8834.2	8454.0	6428.8	4837.8	4449.5	4290.4	4034.2	3772.6	3551.5	3341.1
9737.6	45°	9694.4	9071.5	6280.5	4487.2	4090.8	3934.4	3656.7	3362.7	3111.9	2842.3
11050.9	47.5°	10934.9	9902.1	6140.3	4088.1	3713.3	3570.4	3319.6	3047.2	2750.6	2489.0
12949.3	50°	12639.2	11094.0	6010.8	3699.8	3341.1	3233.3	3033.7	2756.0	2456.6	2246.3
15174.0	52.5°	14807.3	12714.7	5956.9	3325.0	2993.3	2952.8	2793.7	2534.8	2251.7	2073.7
17768.2	55°	17296.3	14653.6	5956.9	2966.3	2688.6	2702.0	2591.5	2351.5	2106.1	1947.0
20443.3	57.5°	19836.5	16616.7	5849.0	2634.6	2429.7	2486.3	2416.2	2205.9	1984.7	1820.2
23255.9	60°	22177.2	18261.7	5412.2	2332.6	2200.5	2289.5	2243.6	2062.9	1793.3	1655.7
25607.3	62.5°	23975.9	19189.3	4570.8	2092.6	2011.7	2114.2	2089.9	1874.2	1758.2	1701.6
27538.1	65°	24876.5	19038.3	3494.9	1879.6	1852.6	2011.7	1960.5	1952.4	1860.7	1796.0
28166.5	67.5°	24323.7	17738.5	2534.8	1723.2	1760.9	1917.3	2114.2	2146.5	1976.6	1849.9
26397.5	70°	21899.5	15387.1	1887.7	1574.8	1645.0	1920.0	2410.8	2246.3	1938.9	1790.6
21171.4	72.5°	16659.9	11474.2	1464.3	1418.4	1493.9	1933.5	2542.9	2200.5	1831.0	1979.3
13189.3	75°	9527.2	6299.4	1175.7	1227.0	1305.2	1806.8	2475.5	2081.8	1747.4	1817.5
5226.1	77.5°	3632.4	2421.6	970.8	1038.2	1049.0	1577.5	2367.7	2073.7	1663.8	1623.4
1566.8	80°	1259.3	946.5	803.6	825.2	811.7	1402.3	2270.6	1804.1	1361.8	1218.9
647.2	82.5°	515.1	471.9	636.4	609.4	577.1	1089.4	1833.7	1475.1	1113.7	984.3
312.8	85°	223.8	299.3	420.7	369.4	334.4	755.1	1469.7	1248.5	941.1	811.7
102.5	87.5°	45.8	113.3	178.0	167.2	172.6	504.3	1043.6	887.2	666.1	498.9
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°
5164.1
5150.6
5250.4
5420.3
5611.7
5789.7
5911.0
5981.2
6021.6
6024.3
5983.9
5913.7
5776.2
5522.7
5110.1
4565.4
3939.8
3322.3
2809.9
2459.3
2232.8
2060.2
1930.8
1793.3
1634.2
1682.7
1774.4
1828.3
1766.3
1963.2
1817.5
1480.5
1178.4
973.5
809.0
391.0
0.0

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