

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: P957412

Luminaire Tested: **GALN-SB9D-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957412
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9D-740-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 99730 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

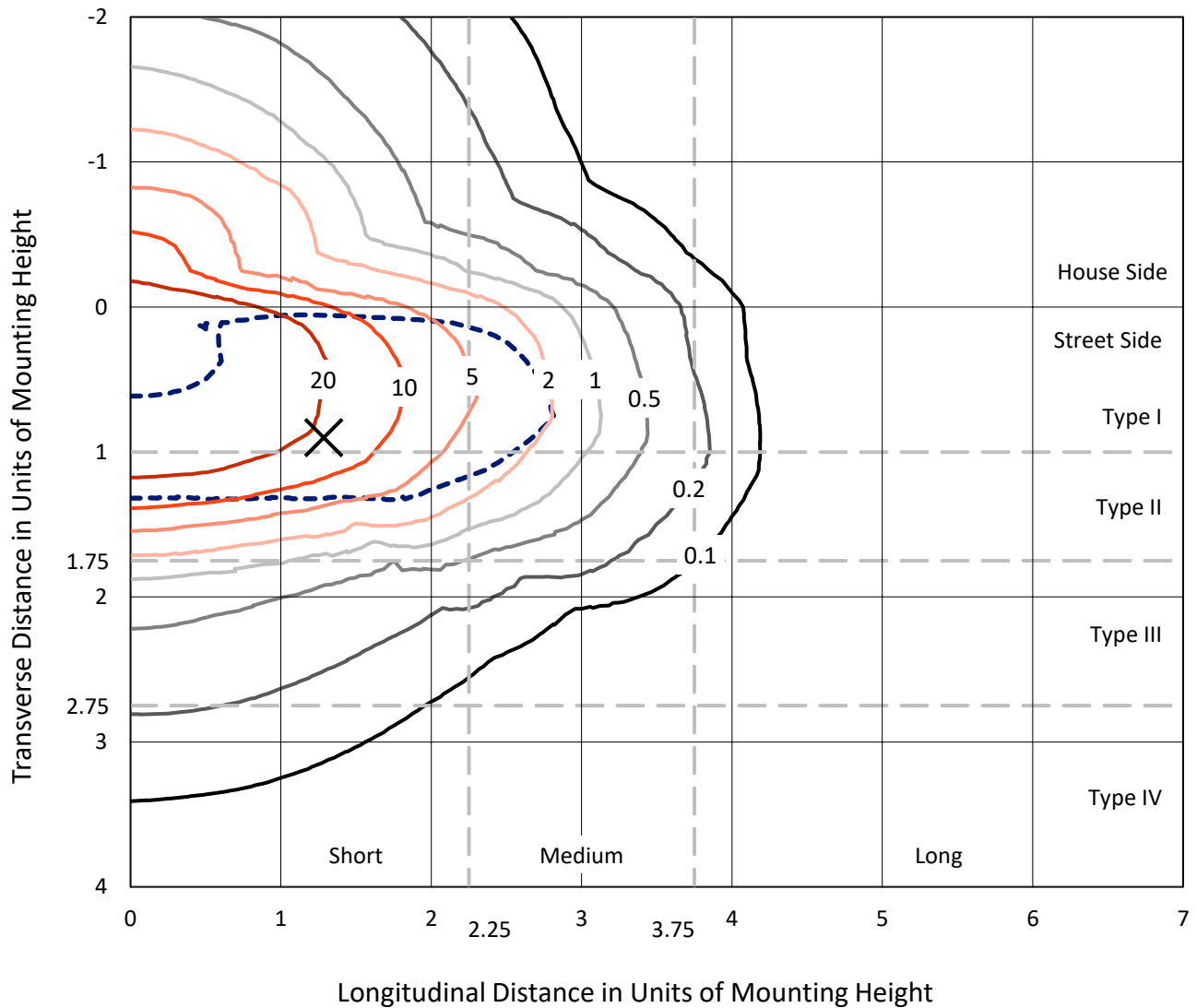
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

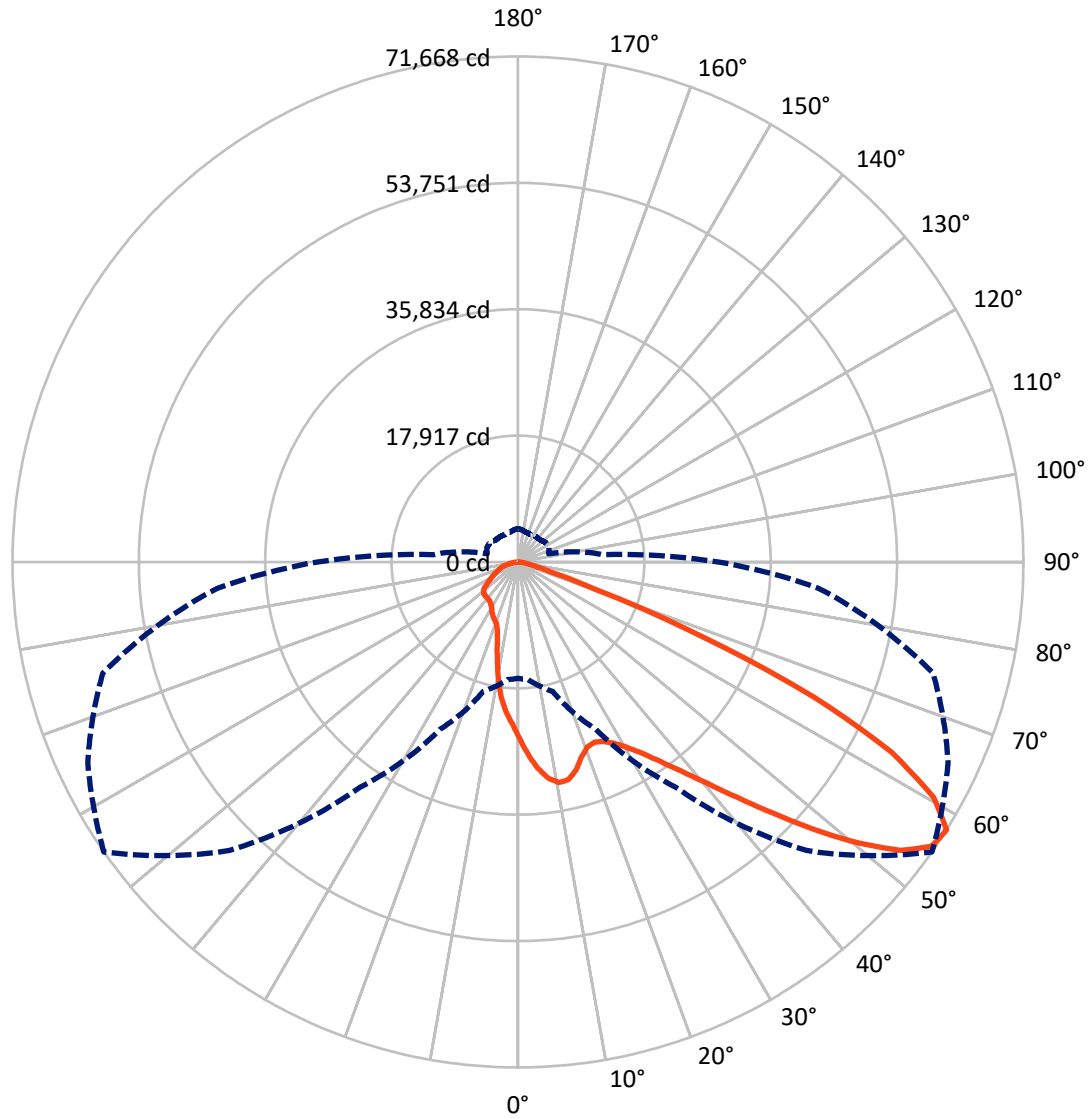
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 48.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18045.6	0.0	18045.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	81684.4	0.0	81684.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	99730.0	0.0	99730.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2318.8	2.3
10°-20°	5852.9	5.9
20°-30°	9339.5	9.4
30°-40°	14786.7	14.8
40°-50°	22632.6	22.7
50°-60°	24241.7	24.3
60°-70°	15250.5	15.3
70°-80°	4509.9	4.5
80°-90°	797.4	0.8
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°	99730.0	100.0
0°-180°	99730.0	100.0



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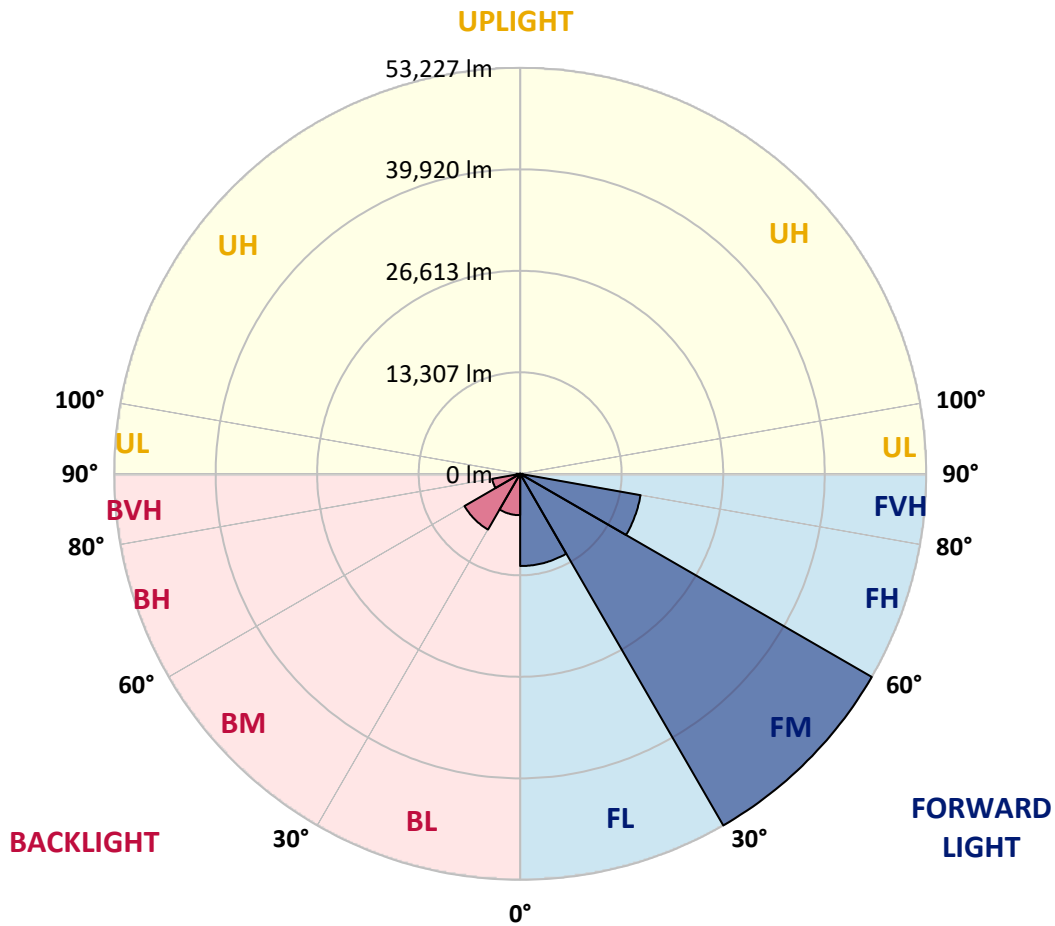
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12087.3	12.1			
FM (30°-60°)	53226.6	53.4			
FH (60°-80°)	16033.6	16.1			G5
FVH (80°-90°)	336.9	0.3			G3/500
BL (0°-30°)	5423.9	5.4	B5		
BM (30°-60°)	8434.4	8.5	B4/8500		
BH (60°-80°)	3726.9	3.7	B4/5000		G4/5000
BVH (80°-90°)	460.5	0.5			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	24989.1	24989.1	24989.1	24989.1	24989.1	24989.1	24989.1	24989.1	24989.1	24989.1
2.5°	28670.2	28649.6	28763.0	28376.3	28113.4	27757.6	27288.5	26690.4	26046.0	25365.5
5°	31253.1	31072.7	31191.3	30902.6	30613.8	30077.7	29381.7	28407.3	27216.3	25860.4
7.5°	30845.8	30722.1	31026.3	31284.1	31500.6	31433.6	30923.2	29902.4	28366.0	26396.6
10°	27561.7	27422.5	27850.4	28742.4	30051.9	31191.3	31809.9	31175.8	29541.5	26984.3
12.5°	24664.3	24597.3	24880.8	25602.6	27056.5	29242.5	31696.5	32289.4	30763.4	27680.3
15°	23427.0	23344.5	23524.9	23891.0	24819.0	26855.4	30665.4	33052.4	31964.6	28484.6
17.5°	23153.7	23060.9	23138.2	23329.0	23927.1	25478.9	29108.4	33428.8	33217.4	29381.7
20°	23659.0	23581.6	23591.9	23581.6	23999.2	25231.4	28025.7	33284.4	34310.4	30206.5
22.5°	24880.8	24751.9	24757.1	24483.9	24710.7	25664.5	27742.2	32897.8	35284.8	30928.3
25°	26870.9	26638.9	26685.3	25989.3	25927.4	26633.7	28185.6	32598.7	36254.0	31505.8
27.5°	29593.0	29330.1	29190.9	28154.6	27659.7	28010.3	29087.8	32701.8	37171.7	32005.8
30°	32995.7	32676.1	32392.5	30923.2	30026.1	29897.2	30490.1	33382.4	38254.4	32531.7
32.5°	37166.6	36795.4	36279.8	34331.0	33067.9	32392.5	32304.9	34593.9	39522.7	33201.9
35°	42131.4	41646.8	40914.7	38393.6	36795.4	35413.7	34697.1	36341.7	41260.1	34212.4
37.5°	47245.7	46699.3	46029.0	43028.5	41064.2	39027.7	37615.1	38713.3	43575.0	35583.8
40°	51963.1	51349.6	50725.8	48055.2	45946.5	43492.5	41187.9	41713.8	46405.4	37223.3
42.5°	54747.1	54293.4	54056.3	52612.7	50983.5	48493.4	45632.0	45271.2	49586.4	39110.2
45°	54623.4	54437.8	55169.9	55767.9	55381.3	53999.6	50839.2	49204.9	52777.7	40744.6
47.5°	51705.3	51829.1	53463.4	56824.8	58304.5	59026.2	56768.1	53066.4	55551.4	41966.4
50°	43765.7	43868.8	47653.0	54901.8	59057.2	63124.9	62650.6	56835.1	57701.3	42714.0
52.5°	37481.1	37548.1	39172.1	49199.7	56572.2	65187.2	67950.6	60387.3	59273.7	42920.2
55°	28232.0	28464.0	30283.9	38599.8	50107.1	63552.8	71178.0	64047.8	60268.7	42940.8
57.5°	16492.7	16745.3	18993.2	26200.7	38945.3	57855.9	71667.7	67295.8	60944.1	42775.9
60°	8078.8	8187.1	9166.6	13770.6	24014.7	46879.7	67728.9	68868.3	61320.5	42688.2
62.5°	5444.3	5428.8	5470.1	6795.1	11832.1	30118.9	59521.2	66115.2	61119.4	42353.1
65°	4681.3	4624.6	4469.9	4768.9	6130.0	13775.7	45987.8	57897.2	59588.2	41512.7
67.5°	4047.1	4052.3	4057.4	3964.6	4377.1	6356.8	28103.1	45606.3	54092.4	37532.6
70°	3351.1	3397.5	3418.2	3418.2	3567.7	4170.9	11997.0	31258.3	42667.6	29428.1
72.5°	3052.1	2954.1	2964.5	2912.9	2912.9	3175.8	4830.8	17719.7	26881.2	16554.6
75°	2490.1	2552.0	2562.3	2526.2	2407.7	2423.1	2866.5	7434.3	11502.1	6867.2
77.5°	2149.9	2149.9	2170.5	2144.7	2051.9	1814.8	1912.7	2882.0	3913.1	2814.9
80°	1727.1	1722.0	1809.6	1861.2	1716.8	1340.5	1221.9	1593.1	1737.4	1237.3
82.5°	840.4	891.9	1242.5	1417.8	1304.4	969.2	747.6	989.9	928.0	546.5
85°	489.8	464.0	556.8	788.8	747.6	536.2	360.9	515.6	484.6	278.4
87.5°	154.7	144.4	113.4	268.1	216.5	149.5	98.0	149.5	134.0	61.9
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
24989.1	0°	24989.1	24989.1	24989.1	24989.1	24989.1	24989.1	24989.1	24989.1	24989.1	24989.1
25071.6	2.5°	24705.5	24097.2	23494.0	22942.3	22607.2	22390.7	22174.2	21931.8	21839.0	21699.8
25138.6	5°	24458.1	23282.6	22236.0	21333.8	20514.1	19869.6	19220.0	18694.1	18457.0	18616.8
25350.0	7.5°	24313.7	22612.4	20998.7	19343.7	17750.7	16477.2	15368.8	14590.3	14239.7	14327.4
25556.2	10°	24184.8	21854.5	19395.3	16781.4	14492.3	12914.7	11780.5	11187.6	10965.9	11012.3
25834.6	12.5°	24066.3	21003.8	17462.0	14023.2	11589.7	10548.3	10223.5	10228.7	10269.9	10300.9
26278.0	15°	24045.6	19977.9	15301.8	11610.4	10022.4	9955.4	10306.0	10527.7	10646.3	10682.4
26649.2	17.5°	24014.7	18750.8	13100.3	9965.7	9640.9	10094.6	10419.4	10563.8	10656.6	10661.7
27010.1	20°	23891.0	17193.9	11069.0	9182.1	9558.4	9950.3	10151.3	10264.8	10342.1	10367.9
27283.3	22.5°	23509.4	15461.6	9486.3	8831.5	9228.5	9543.0	9780.1	9909.0	9955.4	9986.4
27334.9	25°	22823.8	13523.1	8393.3	8496.4	8769.6	9166.6	9357.4	9383.2	9367.7	9414.1
27206.0	27.5°	21926.7	11445.4	7712.7	8042.7	8393.3	8733.6	8836.7	8821.2	8790.3	8841.8
26984.3	30°	20844.0	9579.1	7279.7	7532.3	8011.8	8321.1	8413.9	8377.8	8316.0	8372.7
26870.9	32.5°	19699.5	8053.0	6923.9	7176.6	7697.3	8001.5	8094.3	8058.2	8011.8	8058.2
26999.8	35°	18632.3	6985.8	6594.0	6939.4	7449.8	7748.8	7867.4	7872.6	7872.6	7929.3
27340.0	37.5°	17652.7	6362.0	6320.7	6789.9	7279.7	7547.8	7717.9	7728.2	7506.5	7522.0
27917.5	40°	16745.3	6099.1	6197.0	6691.9	7114.7	7372.5	7382.8	6805.4	6398.1	6387.8
28577.4	42.5°	16002.9	6047.5	6233.1	6681.6	6996.1	7006.4	6279.5	5831.0	5717.5	5722.7
29185.7	45°	15306.9	6032.0	6315.6	6681.6	6820.8	6052.7	5562.9	5444.3	5454.6	5495.8
29459.0	47.5°	14528.4	5970.2	6331.1	6588.8	6315.6	5382.4	5238.1	5186.5	5165.9	5176.2
29397.1	50°	13677.8	5748.5	6135.1	6403.2	5449.4	5093.7	4913.3	4897.8	4923.6	4939.0
29051.7	52.5°	12780.7	5387.6	5800.0	6068.1	5052.5	4841.1	4640.0	4676.1	4789.5	4825.6
28690.8	55°	12192.9	4964.8	5356.6	5397.9	4774.1	4603.9	4433.8	4516.3	4727.7	4794.7
28474.3	57.5°	12038.3	4516.3	4851.4	4805.0	4418.3	4397.7	4294.6	4366.8	4634.9	4732.8
28464.0	60°	11991.9	4114.2	4356.5	4320.4	4072.9	4170.9	4145.1	4181.2	4274.0	4304.9
28360.9	62.5°	11631.0	3794.5	3913.1	3861.5	3763.6	3933.7	3995.6	3918.2	3990.4	4026.5
27654.5	65°	10713.3	3536.7	3480.0	3443.9	3485.2	3639.8	3763.6	3608.9	3675.9	3779.0
24932.4	67.5°	9197.6	3186.1	3031.5	3072.7	3201.6	3284.1	3443.9	3268.6	3325.3	3500.6
20081.0	70°	7439.5	2742.8	2603.6	2722.1	2845.9	3016.0	3041.8	2923.2	3057.3	3253.2
12254.8	72.5°	5263.8	2294.2	2196.3	2438.6	2479.8	2701.5	2644.8	2588.1	2773.7	2840.7
6057.8	75°	3650.2	1850.9	1794.1	1979.7	2129.3	2320.0	2278.8	2345.8	2737.6	2768.5
3026.3	77.5°	2309.7	1438.4	1402.3	1520.9	1727.1	1938.5	2005.5	2768.5	4676.1	4861.7
1572.5	80°	1340.5	1072.4	1031.1	1123.9	1304.4	1500.3	1933.3	3397.5	3083.0	3046.9
706.3	82.5°	747.6	737.2	685.7	711.5	871.3	1082.7	2732.5	2392.2	1943.7	2005.5
283.6	85°	350.6	433.1	371.2	355.7	489.8	1268.3	1825.1	1366.2	907.4	886.8
61.9	87.5°	92.8	82.5	82.5	92.8	206.2	1093.0	726.9	582.6	345.4	335.1
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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