

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: P954199

Luminaire Tested: **GALN-SB7C-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954199
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-SB7C-740-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57307 lumens
Efficiency: N/A
Efficacy: 163.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

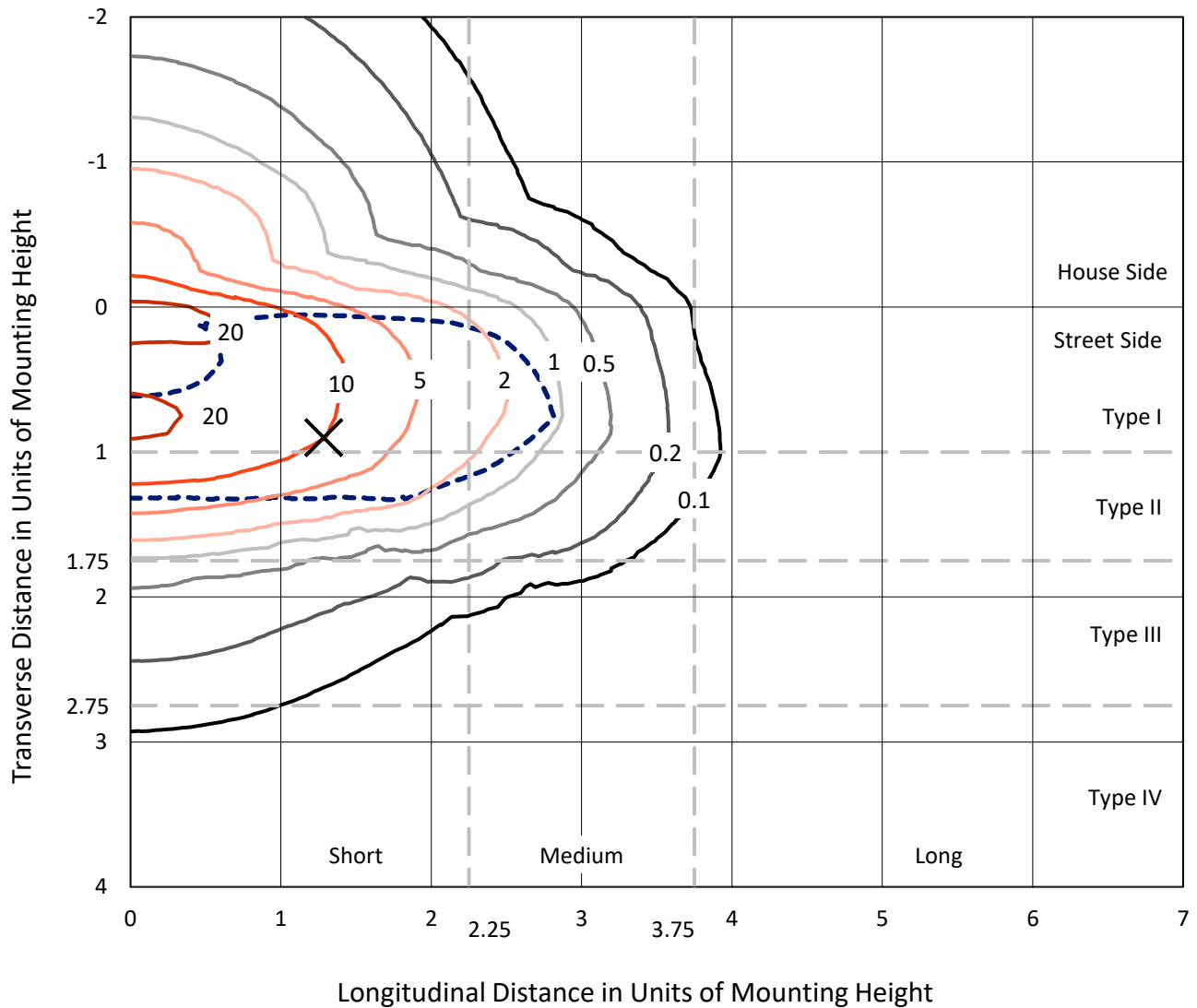
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

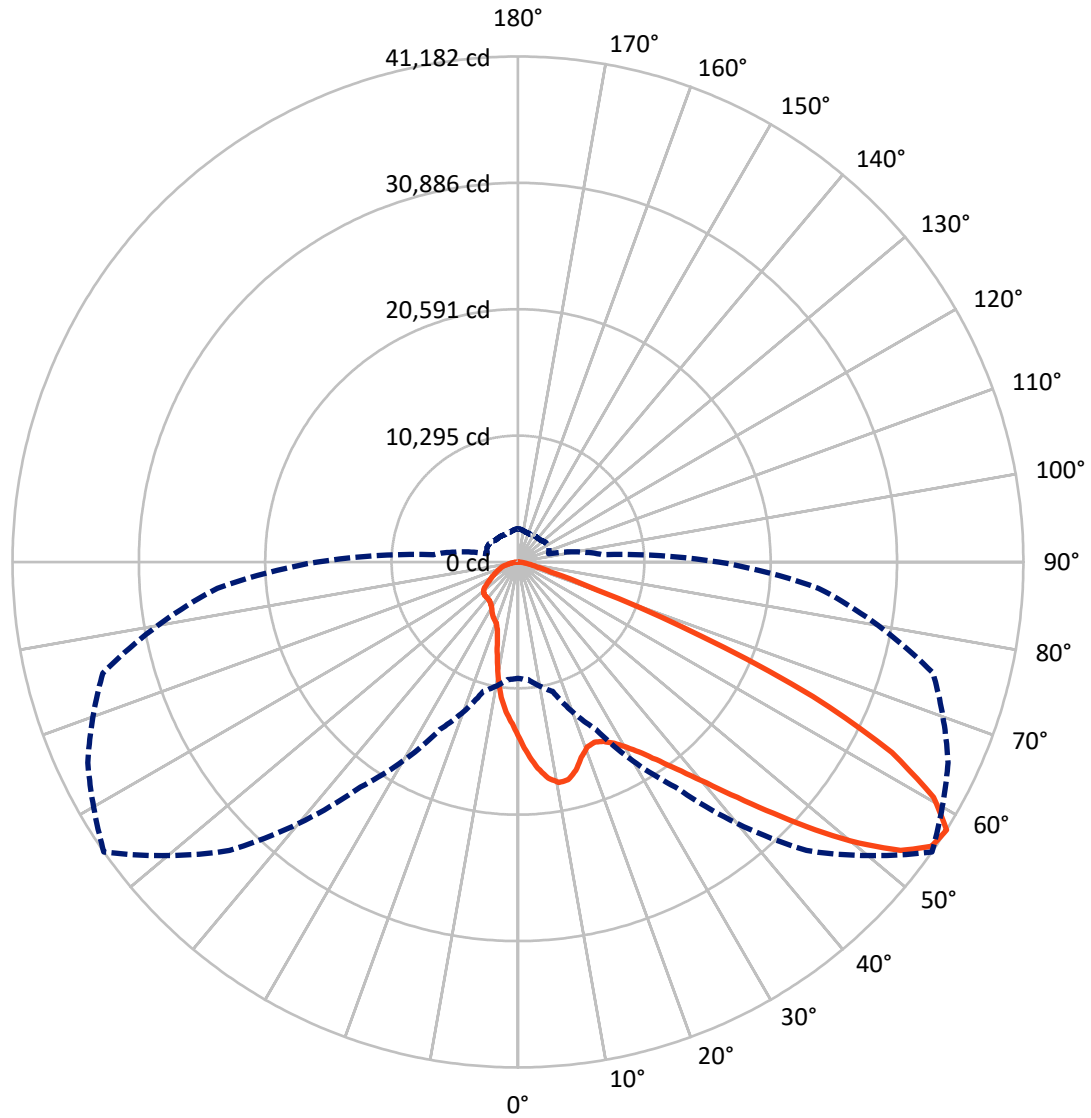
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.8 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	10369.4	0.0	10369.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	46937.6	0.0	46937.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	57307.0	0.0	57307.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1332.4	2.3
10°-20°	3363.2	5.9
20°-30°	5366.7	9.4
30°-40°	8496.8	14.8
40°-50°	13005.2	22.7
50°-60°	13929.8	24.3
60°-70°	8763.3	15.3
70°-80°	2591.5	4.5
80°-90°	458.2	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°	57307.0	100.0
0°-180°	57307.0	100.0



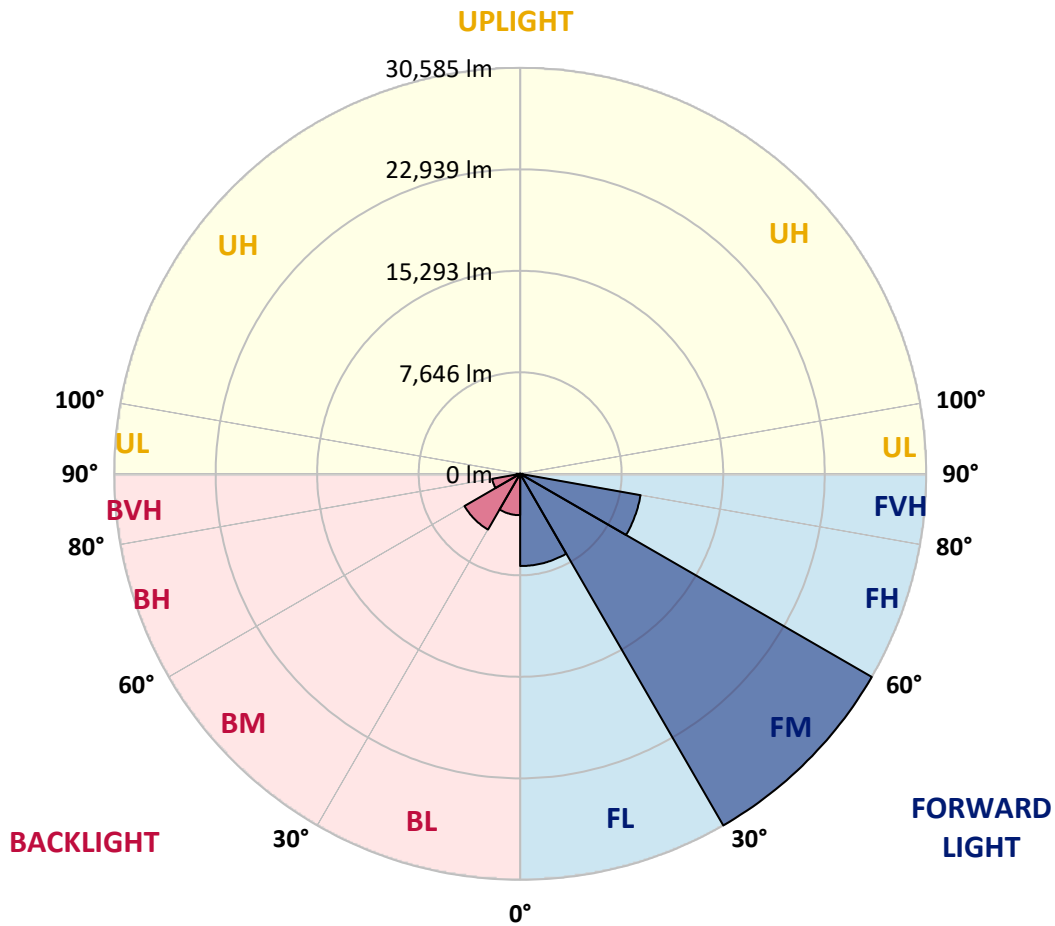
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6945.6	12.1			
FM (30°-60°)	30585.2	53.4			
FH (60°-80°)	9213.2	16.1			G4/12000
FVH (80°-90°)	193.6	0.3			G2/225
BL (0°-30°)	3116.7	5.4	B4/5000		
BM (30°-60°)	4846.6	8.5	B3/5000		
BH (60°-80°)	2141.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	264.6	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14359.3	14359.3	14359.3	14359.3	14359.3	14359.3	14359.3	14359.3	14359.3	14359.3
2.5°	16474.5	16462.7	16527.8	16305.6	16154.6	15950.1	15680.6	15336.9	14966.6	14575.5
5°	17958.7	17855.0	17923.2	17757.3	17591.4	17283.3	16883.3	16323.4	15639.1	14859.9
7.5°	17724.7	17653.6	17828.4	17976.5	18100.9	18062.4	17769.1	17182.5	16299.7	15168.0
10°	15837.6	15757.6	16003.5	16516.0	17268.5	17923.2	18278.7	17914.3	16975.2	15505.8
12.5°	14172.6	14134.1	14297.1	14711.8	15547.2	16803.3	18213.5	18554.2	17677.3	15905.7
15°	13461.6	13414.2	13517.9	13728.3	14261.5	15431.7	17621.0	18992.6	18367.5	16367.9
17.5°	13304.6	13251.3	13295.7	13405.3	13749.0	14640.7	16726.3	19208.9	19087.4	16883.3
20°	13594.9	13550.5	13556.4	13550.5	13790.5	14498.5	16104.2	19125.9	19715.5	17357.3
22.5°	14297.1	14223.0	14226.0	14068.9	14199.3	14747.4	15941.3	18903.8	20275.4	17772.1
25°	15440.6	15307.3	15333.9	14934.0	14898.5	15304.3	16196.0	18731.9	20832.4	18103.9
27.5°	17004.8	16853.7	16773.7	16178.3	15893.9	16095.3	16714.5	18791.2	21359.7	18391.2
30°	18960.0	18776.4	18613.4	17769.1	17253.6	17179.6	17520.3	19182.2	21981.8	18693.4
32.5°	21356.7	21143.4	20847.2	19727.3	19001.5	18613.4	18563.1	19878.4	22710.6	19078.5
35°	24209.6	23931.1	23510.5	22061.8	21143.4	20349.5	19937.7	20882.7	23708.9	19659.2
37.5°	27148.4	26834.4	26449.3	24725.1	23596.4	22426.2	21614.5	22245.5	25039.1	20447.2
40°	29859.1	29506.6	29148.1	27613.5	26401.9	24991.7	23667.5	23969.6	26665.5	21389.3
42.5°	31458.9	31198.2	31061.9	30232.4	29296.2	27865.3	26221.2	26013.8	28493.4	22473.6
45°	31387.8	31281.1	31701.8	32045.4	31823.3	31029.3	29213.3	28274.2	30327.2	23412.7
47.5°	29711.0	29782.1	30721.2	32652.8	33503.0	33917.7	32620.2	30493.1	31921.0	24114.8
50°	25148.7	25208.0	27382.5	31547.7	33935.5	36272.9	36000.4	32658.7	33156.4	24544.4
52.5°	21537.4	21575.9	22509.1	28271.2	32507.6	37457.9	39045.8	34699.9	34059.9	24662.9
55°	16222.7	16356.0	17401.8	22180.3	28792.6	36518.8	40900.4	36803.2	34631.7	24674.7
57.5°	9477.1	9622.2	10913.9	15055.5	22378.8	33245.3	41181.8	38669.6	35019.8	24579.9
60°	4642.2	4704.5	5267.3	7912.9	13799.4	26938.1	38918.5	39573.2	35236.1	24529.6
62.5°	3128.4	3119.5	3143.2	3904.6	6799.0	17307.0	34202.1	37991.2	35120.5	24337.0
65°	2690.0	2657.4	2568.5	2740.3	3522.4	7915.8	26425.6	33269.0	34240.7	23854.1
67.5°	2325.6	2328.5	2331.5	2278.2	2515.2	3652.8	16148.6	26206.3	31082.6	21567.1
70°	1925.6	1952.3	1964.1	1964.1	2050.1	2396.7	6893.8	17961.7	24517.7	16910.0
72.5°	1753.8	1697.5	1703.4	1673.8	1673.8	1824.9	2775.9	10182.1	15446.5	9512.6
75°	1430.9	1466.4	1472.4	1451.6	1383.5	1392.4	1647.2	4271.9	6609.4	3946.1
77.5°	1235.4	1235.4	1247.2	1232.4	1179.1	1042.8	1099.1	1656.0	2248.5	1617.5
80°	992.4	989.5	1039.8	1069.5	986.5	770.3	702.1	915.4	998.4	711.0
82.5°	482.9	512.5	714.0	814.7	749.5	557.0	429.6	568.8	533.3	314.0
85°	281.4	266.6	320.0	453.3	429.6	308.1	207.4	296.3	278.5	160.0
87.5°	88.9	83.0	65.2	154.1	124.4	85.9	56.3	85.9	77.0	35.6
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
14359.3	0°	14359.3	14359.3	14359.3	14359.3	14359.3	14359.3	14359.3	14359.3	14359.3	14359.3
14406.7	2.5°	14196.3	13846.8	13500.1	13183.2	12990.6	12866.2	12741.7	12602.5	12549.2	12469.2
14445.2	5°	14054.1	13378.7	12777.3	12258.9	11787.8	11417.5	11044.2	10742.1	10605.8	10697.6
14566.6	7.5°	13971.2	12993.6	12066.3	11115.3	10199.9	9468.2	8831.2	8383.9	8182.4	8232.8
14685.1	10°	13897.1	12558.1	11145.0	9643.0	8327.6	7421.1	6769.3	6428.6	6301.3	6327.9
14845.1	12.5°	13829.0	12069.3	10034.0	8058.0	6659.7	6061.3	5874.7	5877.6	5901.3	5919.1
15099.9	15°	13817.1	11479.7	8792.7	6671.6	5759.1	5720.6	5922.1	6049.4	6117.6	6138.3
15313.2	17.5°	13799.4	10774.6	7527.7	5726.5	5539.9	5800.6	5987.2	6070.2	6123.5	6126.5
15520.6	20°	13728.3	9880.0	6360.5	5276.2	5492.5	5717.6	5833.2	5898.4	5942.8	5957.6
15677.6	22.5°	13509.0	8884.6	5451.0	5074.8	5302.9	5483.6	5619.9	5693.9	5720.6	5738.4
15707.2	25°	13115.0	7770.7	4823.0	4882.2	5039.2	5267.3	5377.0	5391.8	5382.9	5409.5
15633.2	27.5°	12599.5	6576.8	4431.9	4621.5	4823.0	5018.5	5077.7	5068.9	5051.1	5080.7
15505.8	30°	11977.4	5504.3	4183.1	4328.2	4603.7	4781.5	4834.8	4814.1	4778.5	4811.1
15440.6	32.5°	11319.7	4627.4	3978.6	4123.8	4423.0	4597.8	4651.1	4630.4	4603.7	4630.4
15514.7	35°	10706.5	4014.2	3789.0	3987.5	4280.8	4452.6	4520.8	4523.7	4523.7	4556.3
15710.2	37.5°	10143.6	3655.7	3632.0	3901.6	4183.1	4337.1	4434.9	4440.8	4313.4	4322.3
16042.0	40°	9622.2	3504.6	3560.9	3845.3	4088.3	4236.4	4242.3	3910.5	3676.5	3670.5
16421.2	42.5°	9195.6	3475.0	3581.7	3839.4	4020.1	4026.0	3608.3	3350.6	3285.4	3288.4
16770.8	45°	8795.7	3466.1	3629.1	3839.4	3919.4	3478.0	3196.5	3128.4	3134.3	3158.0
16927.8	47.5°	8348.3	3430.6	3638.0	3786.1	3629.1	3092.9	3009.9	2980.3	2968.4	2974.4
16892.2	50°	7859.5	3303.2	3525.4	3679.4	3131.4	2927.0	2823.3	2814.4	2829.2	2838.1
16693.7	52.5°	7344.1	3095.8	3332.8	3486.9	2903.3	2781.8	2666.3	2687.0	2752.2	2772.9
16486.4	55°	7006.3	2852.9	3078.0	3101.7	2743.3	2645.5	2547.8	2595.2	2716.6	2755.1
16361.9	57.5°	6917.5	2595.2	2787.7	2761.1	2538.9	2527.0	2467.8	2509.2	2663.3	2719.6
16356.0	60°	6890.8	2364.1	2503.3	2482.6	2340.4	2396.7	2381.9	2402.6	2455.9	2473.7
16296.8	62.5°	6683.4	2180.4	2248.5	2218.9	2162.6	2260.4	2295.9	2251.5	2293.0	2313.7
15890.9	65°	6156.1	2032.3	1999.7	1979.0	2002.7	2091.5	2162.6	2073.8	2112.3	2171.5
14326.7	67.5°	5285.1	1830.8	1742.0	1765.7	1839.7	1887.1	1979.0	1878.2	1910.8	2011.5
11539.0	70°	4274.9	1576.1	1496.1	1564.2	1635.3	1733.1	1747.9	1679.7	1756.8	1869.3
7041.9	72.5°	3024.7	1318.3	1262.0	1401.3	1425.0	1552.4	1519.8	1487.2	1593.8	1632.3
3480.9	75°	2097.5	1063.5	1031.0	1137.6	1223.5	1333.1	1309.4	1347.9	1573.1	1590.9
1739.0	77.5°	1327.2	826.5	805.8	873.9	992.4	1113.9	1152.4	1590.9	2687.0	2793.6
903.6	80°	770.3	616.2	592.5	645.8	749.5	862.1	1110.9	1952.3	1771.6	1750.8
405.9	82.5°	429.6	423.6	394.0	408.8	500.7	622.1	1570.1	1374.6	1116.9	1152.4
162.9	85°	201.5	248.9	213.3	204.4	281.4	728.8	1048.7	785.1	521.4	509.6
35.6	87.5°	53.3	47.4	47.4	53.3	118.5	628.1	417.7	334.8	198.5	192.6
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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