

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: P955627

Luminaire Tested: **GALN-SB8C-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955627
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-SB8C-740-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 65160 lumens
Efficiency: N/A
Efficacy: 163.0 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

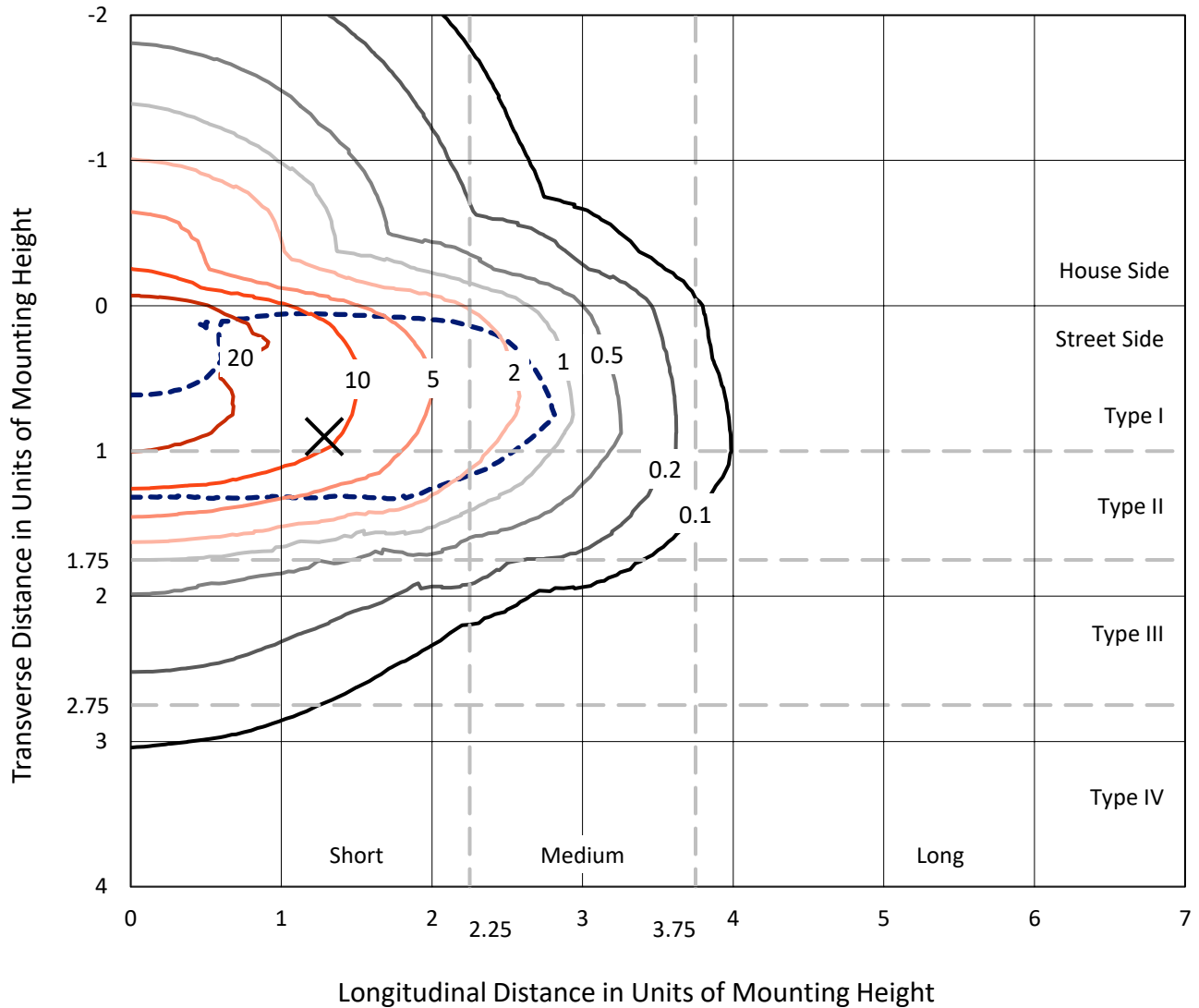
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955627
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Iso-Footcandle Lines of Horizontal Illumination

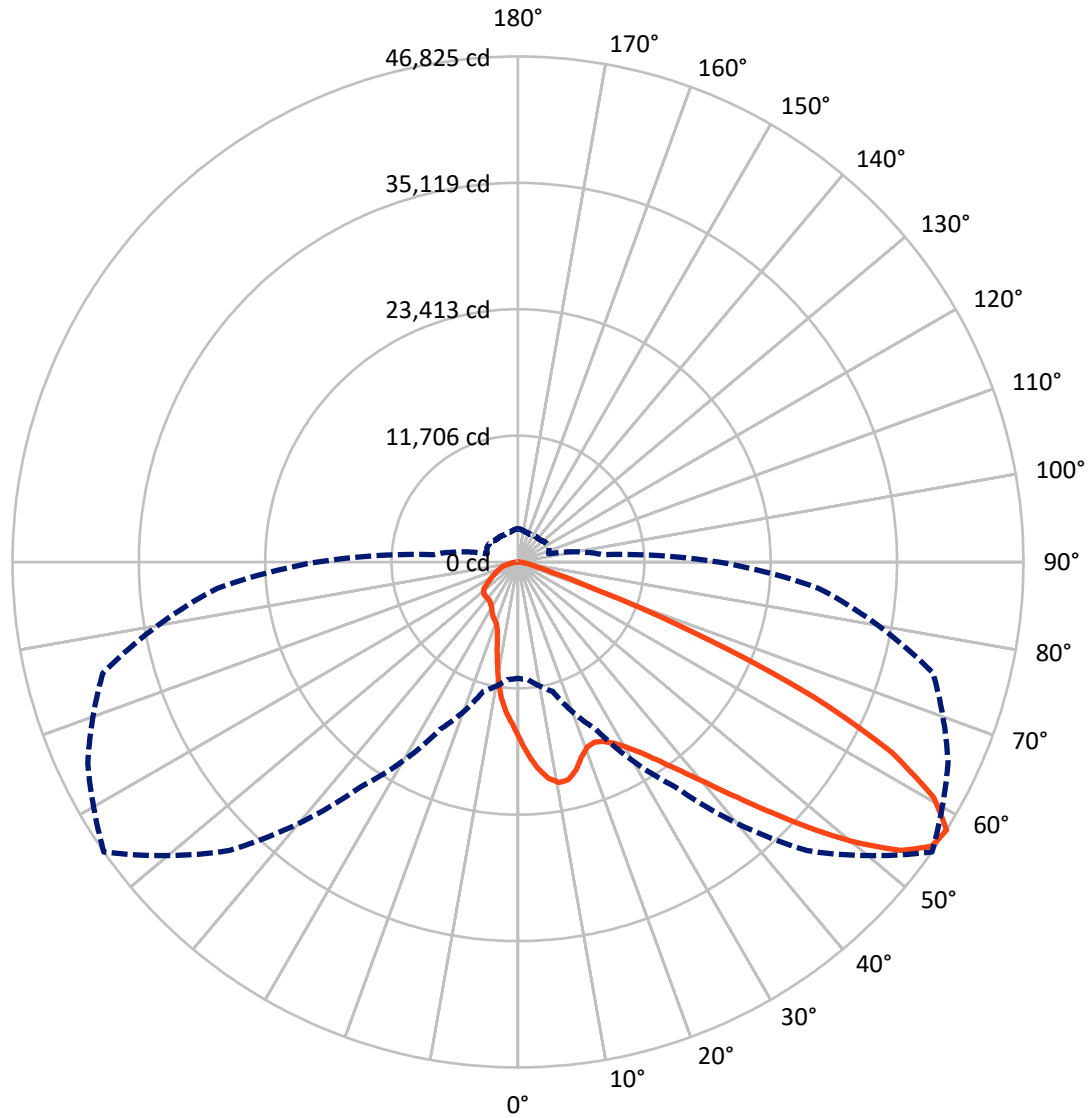
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.6 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SB8C-740-U-AFL

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	11790.4	0.0	11790.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	53369.6	0.0	53369.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	65160.0	0.0	65160.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1515.0	2.3
10°-20°	3824.0	5.9
20°-30°	6102.1	9.4
30°-40°	9661.1	14.8
40°-50°	14787.3	22.7
50°-60°	15838.6	24.3
60°-70°	9964.1	15.3
70°-80°	2946.6	4.5
80°-90°	521.0	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°	65160.0	100.0
0°-180°	65160.0	100.0



REPORT NUMBER: P955627

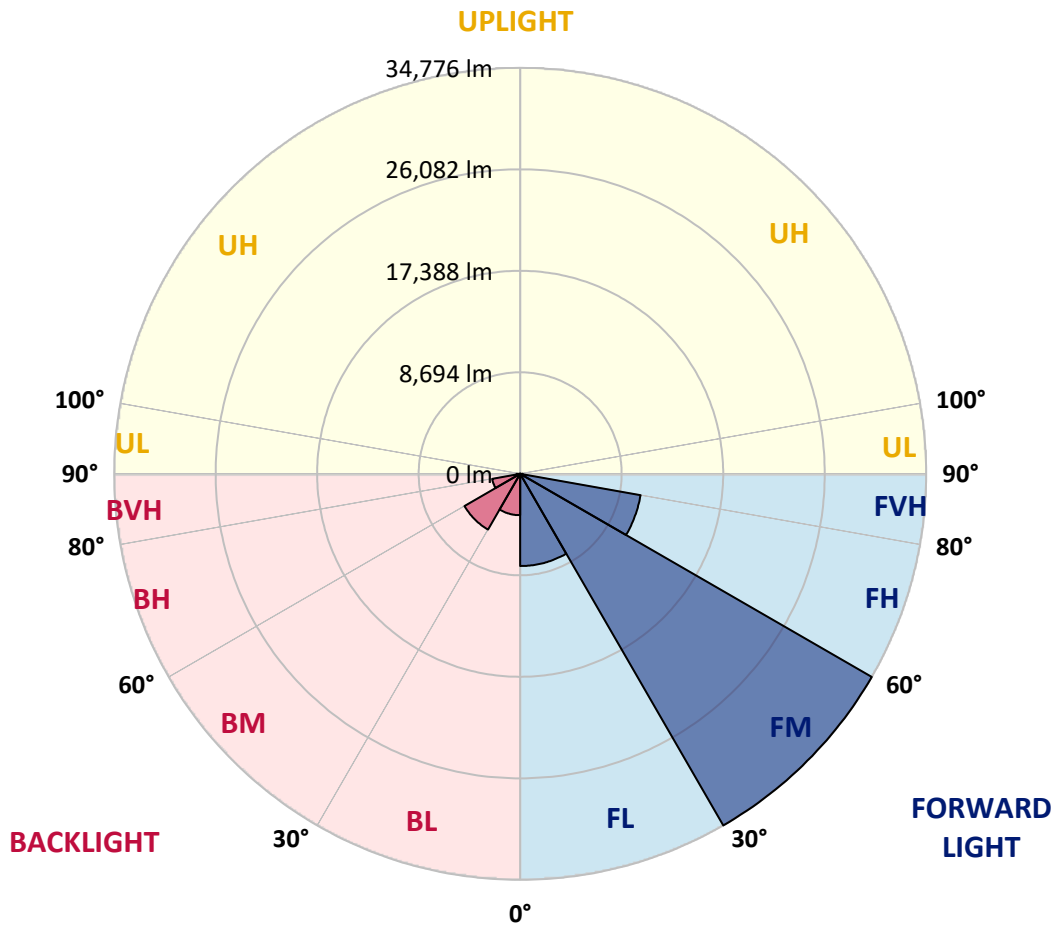
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7897.4	12.1			
FM (30°-60°)	34776.4	53.4			
FH (60°-80°)	10475.7	16.1			G4/12000
FVH (80°-90°)	220.1	0.3			G2/225
BL (0°-30°)	3543.8	5.4	B4/5000		
BM (30°-60°)	5510.7	8.5	B4/8500		
BH (60°-80°)	2435.0	3.7	B3/2500		G3/2500
BVH (80°-90°)	300.9	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



REPORT NUMBER: P955627
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16327.0	16327.0	16327.0	16327.0	16327.0	16327.0	16327.0	16327.0	16327.0	16327.0
2.5°	18732.1	18718.6	18792.7	18540.1	18368.3	18135.9	17829.3	17438.6	17017.5	16572.9
5°	20419.7	20301.8	20379.3	20190.6	20002.0	19651.7	19196.9	18560.3	17782.2	16896.3
7.5°	20153.6	20072.7	20271.5	20439.9	20581.4	20537.6	20204.1	19537.1	18533.3	17246.6
10°	18007.8	17916.9	18196.5	18779.2	19634.8	20379.3	20783.5	20369.1	19301.3	17630.6
12.5°	16114.8	16071.0	16256.2	16727.8	17677.7	19106.0	20709.4	21096.7	20099.7	18085.3
15°	15306.3	15252.4	15370.3	15609.5	16215.8	17546.4	20035.7	21595.3	20884.5	18610.8
17.5°	15127.8	15067.2	15117.7	15242.3	15633.1	16647.0	19018.4	21841.2	21703.1	19196.9
20°	15457.9	15407.4	15414.1	15407.4	15680.2	16485.3	18311.0	21746.9	22417.2	19735.9
22.5°	16256.2	16172.0	16175.4	15996.9	16145.1	16768.3	18125.7	21494.2	23053.8	20207.5
25°	17556.5	17404.9	17435.2	16980.5	16940.0	17401.5	18415.4	21298.8	23687.1	20584.7
27.5°	19335.0	19163.2	19072.3	18395.2	18071.8	18300.9	19004.9	21366.2	24286.7	20911.5
30°	21558.2	21349.4	21164.1	20204.1	19618.0	19533.8	19921.1	21810.9	24994.1	21255.1
32.5°	24283.3	24040.8	23703.9	22430.7	21605.4	21164.1	21106.8	22602.4	25822.7	21693.0
35°	27527.1	27210.5	26732.2	25085.0	24040.8	23138.0	22669.8	23744.4	26957.9	22353.2
37.5°	30868.7	30511.6	30073.7	28113.3	26829.9	25499.3	24576.4	25293.9	28470.3	23249.2
40°	33950.8	33550.0	33142.4	31397.5	30019.8	28416.4	26910.7	27254.3	30319.6	24320.4
42.5°	35769.8	35473.4	35318.4	34375.3	33310.8	31683.8	29814.3	29578.5	32398.0	25553.2
45°	35689.0	35567.7	36046.0	36436.8	36184.1	35281.4	33216.5	32148.7	34483.0	26621.0
47.5°	33782.4	33863.2	34931.0	37127.3	38094.0	38565.6	37090.2	34671.7	36295.3	27419.4
50°	28595.0	28662.3	31134.8	35870.9	38585.8	41243.6	40933.7	37134.0	37699.9	27907.8
52.5°	24488.8	24532.6	25593.6	32145.3	36962.2	42591.0	44396.5	39454.9	38727.3	28042.5
55°	18445.7	18597.3	19786.4	25219.7	32738.2	41523.1	46505.1	41846.5	39377.4	28056.0
57.5°	10775.7	10940.8	12409.4	17118.6	25445.4	37801.0	46825.1	43968.7	39818.7	27948.2
60°	5278.4	5349.1	5989.1	8997.2	15690.3	30629.5	44251.6	44996.0	40064.6	27890.9
62.5°	3557.1	3547.0	3573.9	4439.6	7730.6	19678.6	38889.0	43197.3	39933.2	27672.0
65°	3058.6	3021.5	2920.5	3115.8	4005.1	9000.6	30046.8	37827.9	38932.8	27122.9
67.5°	2644.3	2647.6	2651.0	2590.4	2859.8	4153.3	18361.5	29797.5	35342.0	24522.5
70°	2189.5	2219.8	2233.3	2233.3	2331.0	2725.1	7838.4	20423.0	27877.5	19227.2
72.5°	1994.1	1930.1	1936.9	1903.2	1903.2	2075.0	3156.3	11577.4	17563.2	10816.2
75°	1627.0	1667.4	1674.1	1650.6	1573.1	1583.2	1872.9	4857.3	7515.1	4486.8
77.5°	1404.7	1404.7	1418.1	1401.3	1340.7	1185.7	1249.7	1883.0	2556.7	1839.2
80°	1128.4	1125.1	1182.3	1216.0	1121.7	875.8	798.3	1040.9	1135.2	808.4
82.5°	549.1	582.7	811.8	926.3	852.2	633.3	488.4	646.7	606.3	357.1
85°	320.0	303.2	363.8	515.4	488.4	350.3	235.8	336.8	316.6	181.9
87.5°	101.1	94.3	74.1	175.2	141.5	97.7	64.0	97.7	87.6	40.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955627
 CATALOG NUMBER: GALN-SB8C-740-U-AFL

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
16327.0	0°	16327.0	16327.0	16327.0	16327.0	16327.0	16327.0	16327.0	16327.0	16327.0	16327.0
16380.9	2.5°	16141.7	15744.2	15350.1	14989.7	14770.7	14629.3	14487.8	14329.5	14268.8	14177.9
16424.7	5°	15980.0	15212.0	14528.2	13938.7	13403.1	12982.1	12557.7	12214.1	12059.1	12163.6
16562.8	7.5°	15885.7	14774.1	13719.8	12638.5	11597.6	10765.6	10041.4	9532.8	9303.7	9361.0
16697.5	10°	15801.5	14279.0	12672.2	10964.4	9468.8	8438.0	7697.0	7309.6	7164.7	7195.1
16879.4	12.5°	15724.0	13723.2	11409.0	9162.2	7572.3	6891.9	6679.7	6683.0	6710.0	6730.2
17169.1	15°	15710.6	13052.8	9997.6	7585.8	6548.3	6504.5	6733.6	6878.4	6955.9	6979.5
17411.6	17.5°	15690.3	12251.1	8559.3	6511.3	6299.0	6595.5	6807.7	6902.0	6962.6	6966.0
17647.4	20°	15609.5	11233.9	7232.1	5999.2	6245.1	6501.1	6632.5	6706.6	6757.2	6774.0
17826.0	22.5°	15360.2	10102.0	6198.0	5770.2	6029.6	6235.0	6390.0	6474.2	6504.5	6524.7
17859.6	25°	14912.2	8835.5	5483.9	5551.2	5729.8	5989.1	6113.8	6130.6	6120.5	6150.8
17775.4	27.5°	14326.1	7478.0	5039.2	5254.8	5483.9	5706.2	5773.6	5763.5	5743.2	5776.9
17630.6	30°	13618.7	6258.6	4756.3	4921.3	5234.6	5436.7	5497.3	5473.8	5433.3	5470.4
17556.5	32.5°	12870.9	5261.6	4523.9	4688.9	5029.1	5227.9	5288.5	5264.9	5234.6	5264.9
17640.7	35°	12173.7	4564.3	4308.3	4534.0	4867.4	5062.8	5140.3	5143.7	5143.7	5180.7
17863.0	37.5°	11533.6	4156.7	4129.7	4436.3	4756.3	4931.4	5042.6	5049.3	4904.5	4914.6
18240.3	40°	10940.8	3984.9	4048.9	4372.3	4648.5	4816.9	4823.7	4446.4	4180.3	4173.5
18671.4	42.5°	10455.7	3951.2	4072.5	4365.5	4571.0	4577.8	4102.8	3809.7	3735.6	3739.0
19068.9	45°	10001.0	3941.1	4126.4	4365.5	4456.5	3954.6	3634.6	3557.1	3563.8	3590.8
19247.4	47.5°	9492.4	3900.7	4136.5	4304.9	4126.4	3516.7	3422.4	3388.7	3375.2	3381.9
19207.0	50°	8936.6	3755.8	4008.5	4183.6	3560.5	3328.0	3210.2	3200.0	3216.9	3227.0
18981.3	52.5°	8350.4	3520.1	3789.5	3964.7	3301.1	3163.0	3031.6	3055.2	3129.3	3152.9
18745.5	55°	7966.4	3243.8	3499.8	3526.8	3119.2	3008.0	2896.9	2950.8	3088.9	3132.7
18604.1	57.5°	7865.4	2950.8	3169.7	3139.4	2886.8	2873.3	2805.9	2853.1	3028.3	3092.3
18597.3	60°	7835.1	2688.0	2846.4	2822.8	2661.1	2725.1	2708.3	2731.8	2792.5	2812.7
18530.0	62.5°	7599.3	2479.2	2556.7	2523.0	2459.0	2570.1	2610.6	2560.0	2607.2	2630.8
18068.5	65°	6999.7	2310.8	2273.7	2250.1	2277.1	2378.1	2459.0	2357.9	2401.7	2469.1
16289.9	67.5°	6009.4	2081.7	1980.7	2007.6	2091.8	2145.7	2250.1	2135.6	2172.7	2287.2
13120.2	70°	4860.7	1792.0	1701.1	1778.6	1859.4	1970.6	1987.4	1909.9	1997.5	2125.5
8006.9	72.5°	3439.2	1499.0	1435.0	1593.3	1620.2	1765.1	1728.0	1691.0	1812.2	1856.0
3958.0	75°	2384.9	1209.3	1172.2	1293.5	1391.2	1515.8	1488.9	1532.7	1788.7	1808.9
1977.3	77.5°	1509.1	939.8	916.2	993.7	1128.4	1266.5	1310.3	1808.9	3055.2	3176.5
1027.4	80°	875.8	700.6	673.7	734.3	852.2	980.2	1263.2	2219.8	2014.3	1990.8
461.5	82.5°	488.4	481.7	448.0	464.8	569.3	707.4	1785.3	1563.0	1269.9	1310.3
185.3	85°	229.1	283.0	242.5	232.4	320.0	828.6	1192.4	892.6	592.9	579.4
40.4	87.5°	60.6	53.9	53.9	60.6	134.7	714.1	475.0	380.6	225.7	219.0
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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