

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: P953149

Luminaire Tested: **GALN-SB6D-750-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953149  
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-SB6D-750-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

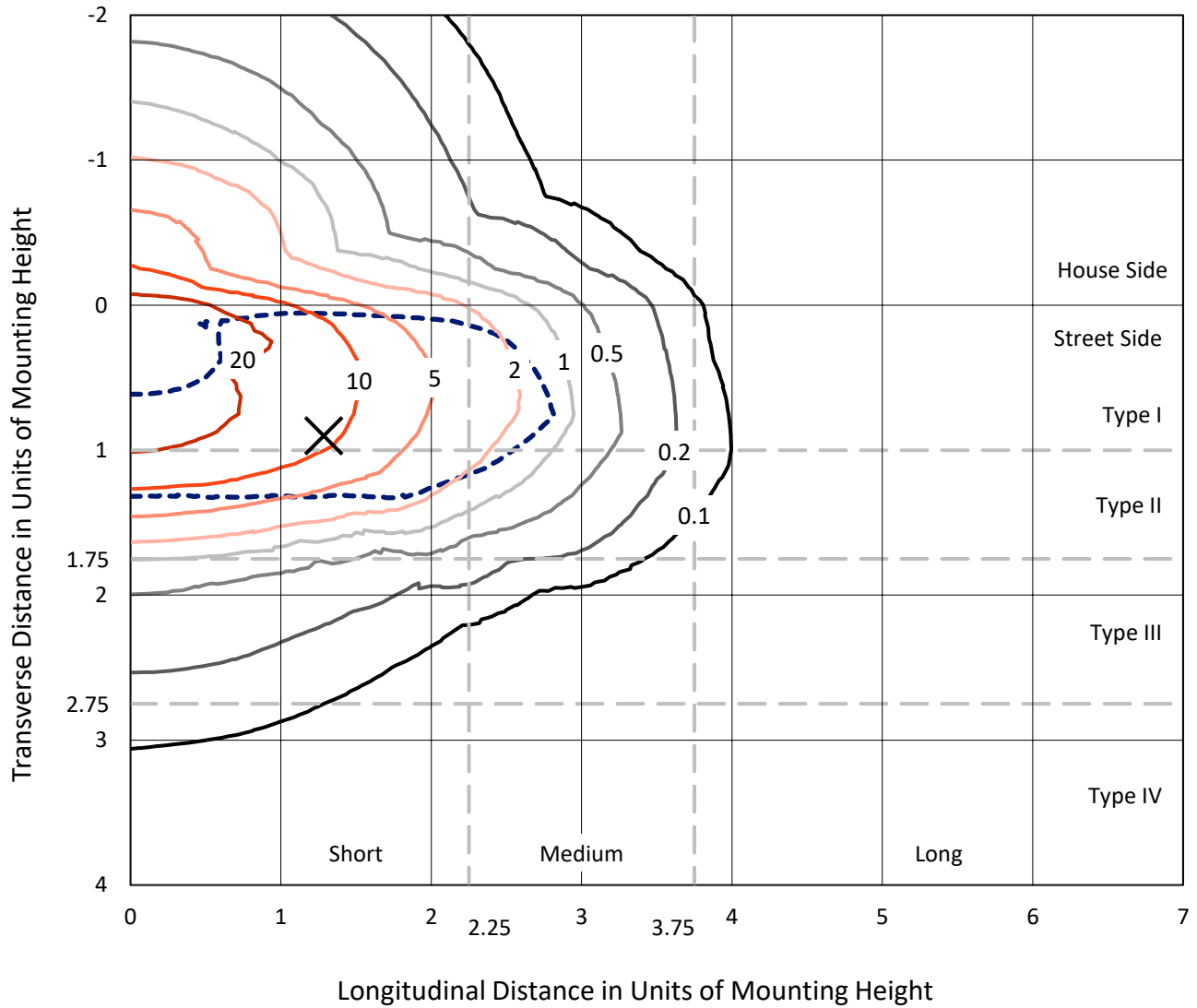
Lumens per Lamp: N/A  
Luminaire Lumens: 66397 lumens  
Efficiency: N/A  
Efficacy: 150.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

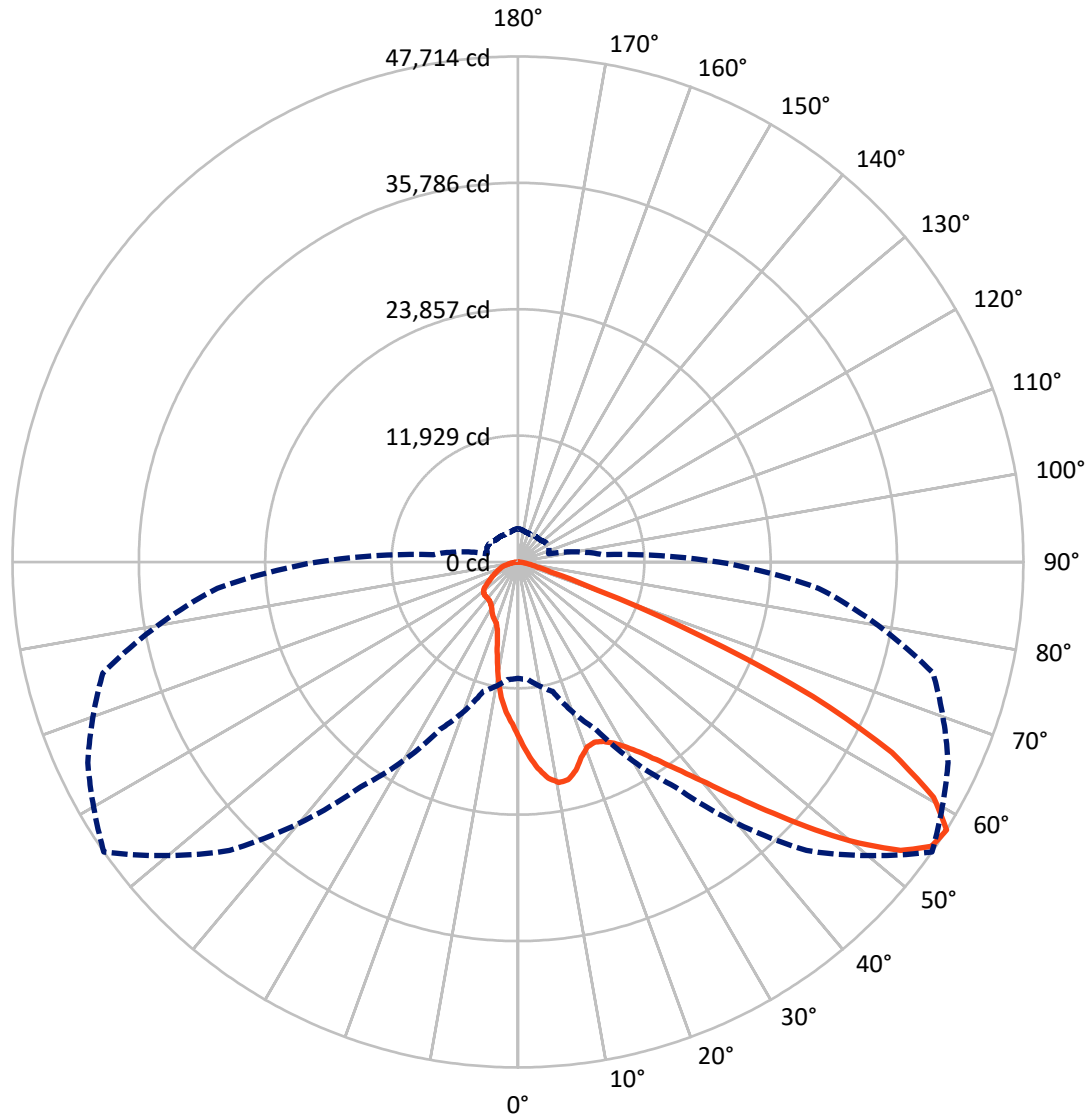
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32.2 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
<b>House Side</b>	Lumens	12014.2	0.0	12014.2
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	54382.8	0.0	54382.8
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	66397.0	0.0	66397.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1543.8	2.3
10°-20°	3896.6	5.9
20°-30°	6217.9	9.4
30°-40°	9844.5	14.8
40°-50°	15068.1	22.7
50°-60°	16139.3	24.3
60°-70°	10153.3	15.3
70°-80°	3002.5	4.5
80°-90°	530.9	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°	66397.0	100.0
0°-180°	66397.0	100.0

**Coefficient of Utilization**



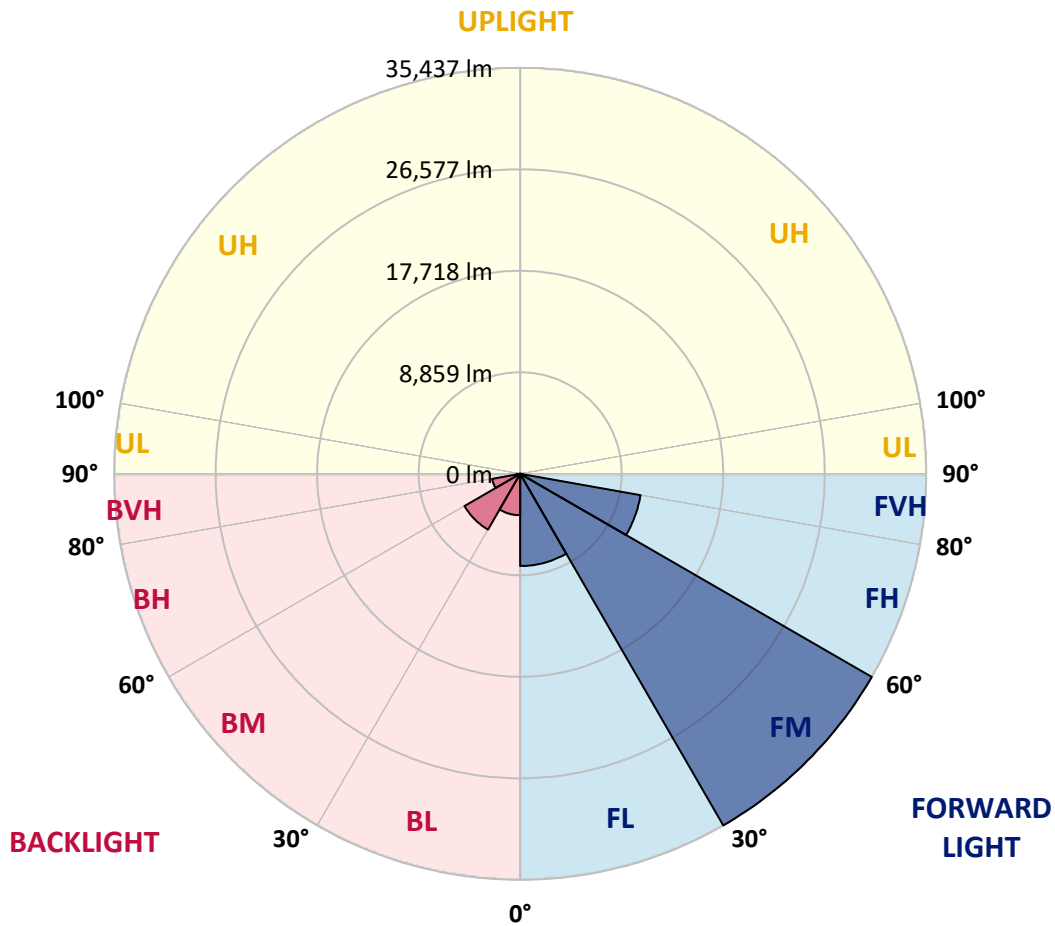
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8047.3	12.1			
FM (30°-60°)	35436.6	53.4			
FH (60°-80°)	10674.6	16.1			G4/12000
FVH (80°-90°)	224.3	0.3			G2/225
BL (0°-30°)	3611.1	5.4	B4/5000		
BM (30°-60°)	5615.3	8.5	B4/8500		
BH (60°-80°)	2481.2	3.7	B3/2500		G3/2500
BVH (80°-90°)	306.6	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°	16636.9	16636.9	16636.9	16636.9	16636.9	16636.9	16636.9	16636.9	16636.9	16636.9
2.5°	19087.7	19074.0	19149.5	18892.0	18717.0	18480.1	18167.8	17769.6	17340.6	16887.5
5°	20807.3	20687.2	20766.1	20573.9	20381.7	20024.7	19561.4	18912.6	18119.7	17217.0
7.5°	20536.2	20453.8	20656.3	20827.9	20972.1	20927.5	20587.6	19908.0	18885.2	17574.0
10°	18349.7	18257.0	18541.9	19135.7	20007.6	20766.1	21178.0	20755.8	19667.8	17965.3
12.5°	16420.7	16376.1	16564.9	17045.4	18013.3	19468.7	21102.5	21497.2	20481.2	18428.7
15°	15596.9	15542.0	15662.1	15905.8	16523.7	17879.5	20416.0	22005.2	21281.0	18964.1
17.5°	15415.0	15353.2	15404.7	15531.7	15929.9	16963.0	19379.4	22255.8	22115.1	19561.4
20°	15751.4	15699.9	15706.7	15699.9	15977.9	16798.3	18658.6	22159.7	22842.7	20110.5
22.5°	16564.9	16479.0	16482.5	16300.6	16451.6	17086.6	18469.8	21902.3	23491.5	20591.1
25°	17889.8	17735.3	17766.2	17302.8	17261.6	17731.9	18765.0	21703.2	24136.8	20975.5
27.5°	19702.1	19527.0	19434.4	18744.4	18414.9	18648.3	19365.7	21771.8	24747.7	21308.5
30°	21967.5	21754.7	21565.9	20587.6	19990.4	19904.6	20299.3	22224.9	25468.5	21658.6
32.5°	24744.3	24497.2	24153.9	22856.5	22015.5	21565.9	21507.5	23031.5	26312.9	22104.8
35°	28049.7	27727.1	27239.7	25561.2	24497.2	23577.3	23100.2	24195.1	27469.6	22777.5
37.5°	31454.7	31090.8	30644.6	28647.0	27339.2	25983.4	25042.9	25774.0	29010.8	23690.6
40°	34595.3	34186.9	33771.6	31993.6	30589.7	28955.9	27421.6	27771.7	30895.2	24782.1
42.5°	36448.9	36146.8	35988.9	35027.8	33943.2	32285.3	30380.3	30140.1	33013.0	26038.3
45°	36366.5	36242.9	36730.3	37128.5	36871.0	35951.2	33847.1	32759.0	35137.7	27126.4
47.5°	34423.7	34506.1	35594.2	37832.1	38817.2	39297.8	37794.4	35329.9	36984.3	27939.9
50°	29137.8	29206.4	31725.8	36551.8	39318.4	42026.5	41710.8	37839.0	38415.6	28437.6
52.5°	24953.7	24998.3	26079.5	32755.6	37663.9	43399.5	45239.3	40203.9	39462.5	28574.9
55°	18795.9	18950.4	20162.0	25698.5	33359.7	42311.4	47388.0	42640.9	40125.0	28588.6
57.5°	10980.3	11148.5	12645.0	17443.6	25928.5	38518.6	47714.1	44803.4	40574.6	28478.8
60°	5378.6	5450.7	6102.8	9168.0	15988.2	31211.0	45091.7	45850.2	40825.2	28420.4
62.5°	3624.6	3614.3	3641.8	4523.9	7877.4	20052.2	39627.3	44017.3	40691.3	28197.3
65°	3116.6	3078.9	2975.9	3175.0	4081.1	9171.4	30617.2	38546.1	39671.9	27637.8
67.5°	2694.4	2697.9	2701.3	2639.5	2914.1	4232.2	18710.1	30363.2	36012.9	24988.0
70°	2231.1	2262.0	2275.7	2275.7	2375.2	2776.8	7987.2	20810.8	28406.7	19592.2
72.5°	2032.0	1966.8	1973.6	1939.3	1939.3	2114.4	3216.2	11797.2	17896.6	11021.5
75°	1657.9	1699.0	1705.9	1681.9	1602.9	1613.2	1908.4	4949.5	7657.7	4572.0
77.5°	1431.3	1431.3	1445.0	1427.9	1366.1	1208.2	1273.4	1918.7	2605.2	1874.1
80°	1149.9	1146.4	1204.8	1239.1	1143.0	892.4	813.5	1060.6	1156.7	823.8
82.5°	559.5	593.8	827.2	943.9	868.4	645.3	497.7	659.0	617.8	363.8
85°	326.1	308.9	370.7	525.2	497.7	357.0	240.3	343.2	322.6	185.4
87.5°	103.0	96.1	75.5	178.5	144.2	99.5	65.2	99.5	89.2	41.2
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°
16636.9	0°	16636.9	16636.9	16636.9	16636.9	16636.9	16636.9	16636.9	16636.9	16636.9	16636.9
16691.9	2.5°	16448.1	16043.1	15641.5	15274.3	15051.2	14907.0	14762.8	14601.5	14539.7	14447.0
16736.5	5°	16283.4	15500.8	14804.0	14203.3	13657.6	13228.5	12796.1	12445.9	12288.1	12394.5
16877.2	7.5°	16187.3	15054.6	13980.2	12878.4	11817.8	10970.0	10232.0	9713.7	9480.3	9538.7
17014.5	10°	16101.5	14550.0	12912.8	11172.5	9648.5	8598.2	7843.1	7448.3	7300.8	7331.6
17199.8	12.5°	16022.5	13983.7	11625.6	9336.2	7716.1	7022.7	6806.5	6809.9	6837.4	6858.0
17495.0	15°	16008.8	13300.6	10187.4	7729.8	6672.6	6628.0	6861.4	7009.0	7087.9	7112.0
17742.2	17.5°	15988.2	12483.7	8721.8	6634.9	6418.6	6720.7	6936.9	7033.0	7094.8	7098.2
17982.4	20°	15905.8	11447.1	7369.4	6113.1	6363.7	6624.6	6758.4	6833.9	6885.4	6902.6
18164.4	22.5°	15651.8	10293.8	6315.7	5879.7	6144.0	6353.4	6511.3	6597.1	6628.0	6648.6
18198.7	25°	15195.3	9003.2	5588.0	5656.6	5838.5	6102.8	6229.8	6247.0	6236.7	6267.6
18112.9	27.5°	14598.1	7620.0	5134.9	5354.6	5588.0	5814.5	5883.2	5872.9	5852.3	5886.6
17965.3	30°	13877.3	6377.4	4846.6	5014.8	5334.0	5539.9	5601.7	5577.7	5536.5	5574.2
17889.8	32.5°	13115.3	5361.4	4609.7	4777.9	5124.6	5327.1	5388.9	5364.9	5334.0	5364.9
17975.6	35°	12404.8	4650.9	4390.1	4620.0	4959.8	5158.9	5237.9	5241.3	5241.3	5279.1
18202.1	37.5°	11752.6	4235.6	4208.1	4520.5	4846.6	5025.1	5138.3	5145.2	4997.6	5007.9
18586.5	40°	11148.5	4060.6	4125.8	4455.3	4736.7	4908.4	4915.2	4530.8	4259.6	4252.8
19025.9	42.5°	10654.2	4026.2	4149.8	4448.4	4657.8	4664.7	4180.7	3882.1	3806.6	3810.0
19430.9	45°	10190.9	4015.9	4204.7	4448.4	4541.1	4029.7	3703.6	3624.6	3631.5	3659.0
19612.8	47.5°	9672.6	3974.7	4215.0	4386.6	4204.7	3583.4	3487.3	3453.0	3439.3	3446.1
19571.7	50°	9106.2	3827.1	4084.6	4263.1	3628.1	3391.2	3271.1	3260.8	3278.0	3288.3
19341.7	52.5°	8509.0	3586.9	3861.5	4040.0	3363.8	3223.0	3089.2	3113.2	3188.7	3212.7
19101.4	55°	8117.7	3305.4	3566.3	3593.7	3178.4	3065.1	2951.9	3006.8	3147.5	3192.1
18957.2	57.5°	8014.7	3006.8	3229.9	3199.0	2941.6	2927.9	2859.2	2907.3	3085.7	3151.0
18950.4	60°	7983.8	2739.1	2900.4	2876.4	2711.6	2776.8	2759.7	2783.7	2845.5	2866.1
18881.7	62.5°	7743.5	2526.3	2605.2	2570.9	2505.7	2618.9	2660.1	2608.6	2656.7	2680.7
18411.5	65°	7132.6	2354.6	2316.9	2292.9	2320.3	2423.3	2505.7	2402.7	2447.3	2516.0
16599.2	67.5°	6123.4	2121.2	2018.3	2045.7	2131.5	2186.5	2292.9	2176.2	2213.9	2330.6
13369.3	70°	4953.0	1826.0	1733.4	1812.3	1894.7	2008.0	2025.1	1946.2	2035.4	2165.9
8158.9	72.5°	3504.5	1527.4	1462.2	1623.5	1651.0	1798.6	1760.8	1723.1	1846.6	1891.3
4033.1	75°	2430.2	1232.2	1194.5	1318.0	1417.6	1544.6	1517.1	1561.8	1822.6	1843.2
2014.8	77.5°	1537.7	957.6	933.6	1012.6	1149.9	1290.6	1335.2	1843.2	3113.2	3236.8
1046.9	80°	892.4	713.9	686.5	748.3	868.4	998.8	1287.2	2262.0	2052.6	2028.6
470.2	82.5°	497.7	490.8	456.5	473.7	580.1	720.8	1819.2	1592.6	1294.0	1335.2
188.8	85°	233.4	288.3	247.1	236.8	326.1	844.4	1215.1	909.6	604.1	590.4
41.2	87.5°	61.8	54.9	54.9	61.8	137.3	727.7	484.0	387.9	230.0	223.1
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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