

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: P952855

Luminaire Tested: **GALN-SB6C-830-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952855  
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-SB6C-830-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

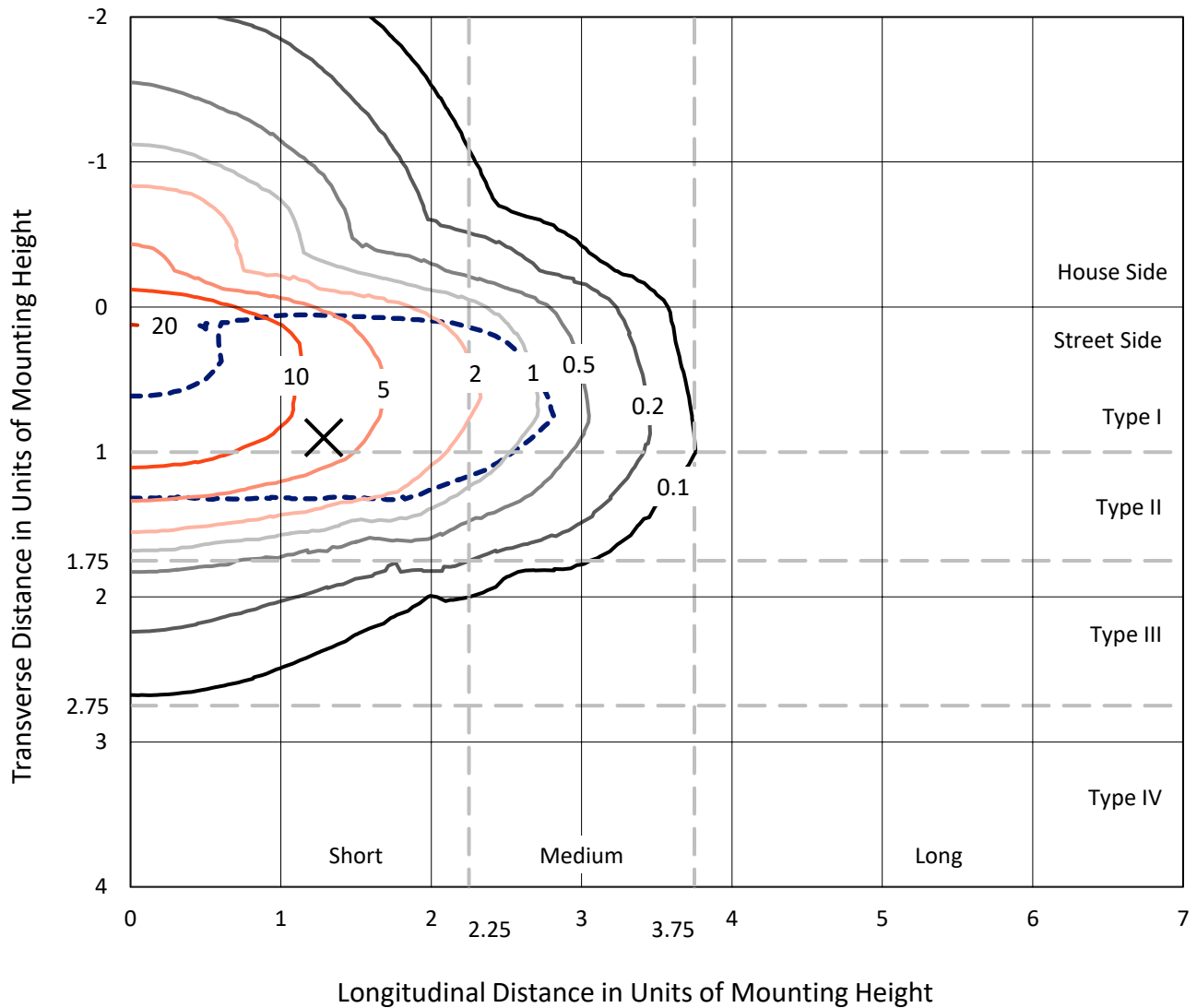
Lumens per Lamp: N/A  
Luminaire Lumens: 41502 lumens  
Efficiency: N/A  
Efficacy: 137.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

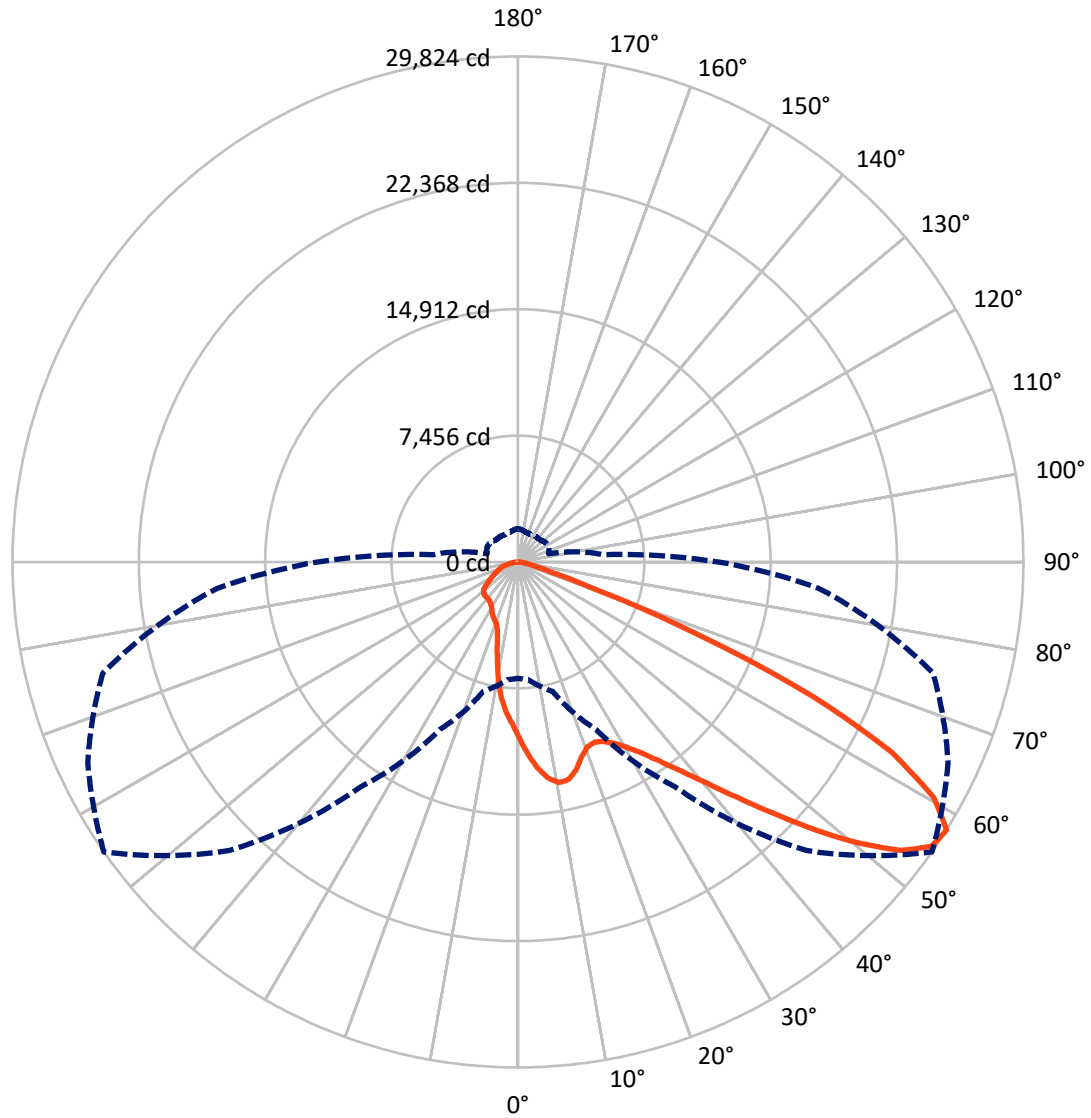
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 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	7509.6	0.0	7509.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	33992.4	0.0	33992.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	41502.0	0.0	41502.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	965.0	2.3
10°-20°	2435.6	5.9
20°-30°	3886.6	9.4
30°-40°	6153.4	14.8
40°-50°	9418.4	22.7
50°-60°	10088.0	24.3
60°-70°	6346.4	15.3
70°-80°	1876.8	4.5
80°-90°	331.8	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°	41502.0	100.0
0°-180°	41502.0	100.0

**Coefficient of Utilization**



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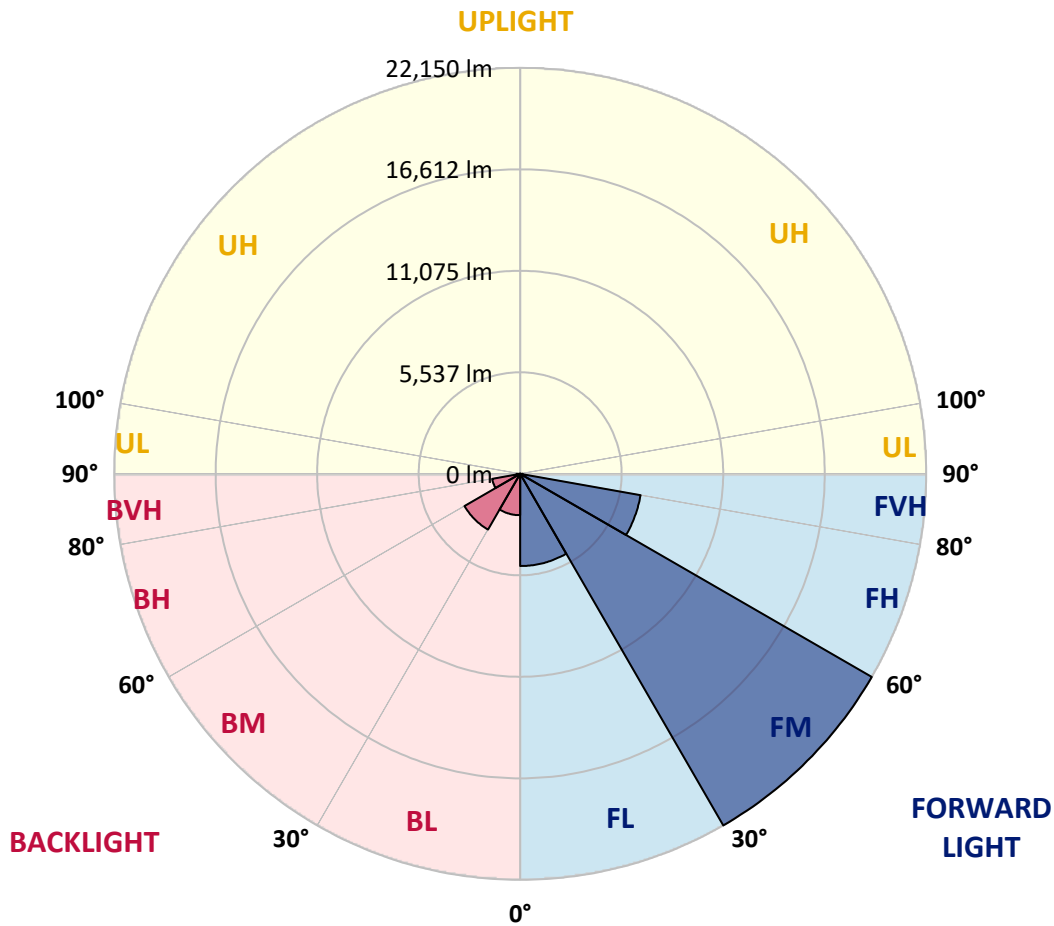
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5030.0	12.1			
FM (30°-60°)	22149.9	53.4			
FH (60°-80°)	6672.3	16.1			G3/7500
FVH (80°-90°)	140.2	0.3			G2/225
BL (0°-30°)	2257.1	5.4	B3/2500		
BM (30°-60°)	3509.9	8.5	B3/5000		
BH (60°-80°)	1550.9	3.7	B3/2500		G3/2500
BVH (80°-90°)	191.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10399.1	10399.1	10399.1	10399.1	10399.1	10399.1	10399.1	10399.1	10399.1	10399.1
2.5°	11930.9	11922.3	11969.5	11808.6	11699.2	11551.2	11355.9	11107.1	10838.9	10555.7
5°	13005.8	12930.7	12980.0	12859.9	12739.8	12516.6	12227.0	11821.5	11325.9	10761.6
7.5°	12836.3	12784.8	12911.4	13018.7	13108.8	13080.9	12868.5	12443.7	11804.3	10984.8
10°	11469.6	11411.7	11589.8	11961.0	12505.9	12980.0	13237.5	12973.6	12293.5	11229.3
12.5°	10263.9	10236.0	10354.0	10654.4	11259.4	12169.1	13190.3	13437.0	12802.0	11519.0
15°	9749.0	9714.7	9789.7	9942.1	10328.3	11175.7	12761.2	13754.6	13301.9	11853.7
17.5°	9635.3	9596.7	9628.8	9708.2	9957.1	10602.9	12113.3	13911.2	13823.2	12227.0
20°	9845.5	9813.3	9817.6	9813.3	9987.1	10499.9	11662.7	13851.1	14278.0	12570.3
22.5°	10354.0	10300.4	10302.5	10188.8	10283.2	10680.1	11544.7	13690.2	14683.5	12870.6
25°	11182.1	11085.6	11104.9	10815.3	10789.5	11083.5	11729.2	13565.8	15086.9	13110.9
27.5°	12315.0	12205.5	12147.6	11716.4	11510.4	11656.3	12104.7	13608.7	15468.8	13319.0
30°	13731.0	13597.9	13479.9	12868.5	12495.2	12441.5	12688.3	13891.9	15919.3	13537.9
32.5°	15466.6	15312.2	15097.6	14286.6	13761.0	13479.9	13443.5	14396.0	16447.1	13816.8
35°	17532.7	17331.0	17026.4	15977.3	15312.2	14737.2	14439.0	15123.4	17170.1	14237.3
37.5°	19661.0	19433.6	19154.7	17906.0	17088.6	16241.1	15653.3	16110.3	18133.4	14808.0
40°	21624.1	21368.8	21109.2	19997.9	19120.4	18099.1	17140.1	17358.9	19311.3	15490.2
42.5°	22782.7	22593.9	22495.2	21894.4	21216.5	20180.2	18989.5	18839.3	20635.1	16275.5
45°	22731.2	22653.9	22958.6	23207.5	23046.6	22471.6	21156.4	20476.3	21963.1	16955.6
47.5°	21516.8	21568.3	22248.4	23647.3	24263.0	24563.4	23623.7	22083.2	23117.4	17464.1
50°	18212.8	18255.7	19830.5	22847.0	24576.3	26269.0	26071.7	23651.6	24012.0	17775.2
52.5°	15597.5	15625.4	16301.2	20474.1	23542.2	27127.2	28277.2	25129.8	24666.4	17861.0
55°	11748.5	11845.1	12602.4	16063.1	20851.7	26447.1	29620.2	26653.1	25080.5	17869.6
57.5°	6863.3	6968.5	7903.9	10903.2	16206.8	24076.4	29824.1	28004.7	25361.5	17800.9
60°	3361.9	3407.0	3814.6	5730.5	9993.6	19508.7	28184.9	28659.1	25518.1	17764.4
62.5°	2265.6	2259.2	2276.3	2827.7	4923.8	12533.8	24769.4	27513.4	25434.5	17625.0
65°	1948.1	1924.5	1860.1	1984.6	2551.0	5732.7	19137.5	24093.5	24797.2	17275.3
67.5°	1684.2	1686.3	1688.5	1649.9	1821.5	2645.4	11694.9	18978.8	22510.2	15619.0
70°	1394.6	1413.9	1422.4	1422.4	1484.7	1735.7	4992.5	13007.9	17755.8	12246.3
72.5°	1270.1	1229.3	1233.6	1212.2	1212.2	1321.6	2010.3	7374.0	11186.4	6889.1
75°	1036.3	1062.0	1066.3	1051.3	1001.9	1008.4	1192.9	3093.8	4786.5	2857.8
77.5°	894.7	894.7	903.2	892.5	853.9	755.2	796.0	1199.3	1628.4	1171.4
80°	718.7	716.6	753.1	774.5	714.4	557.8	508.5	662.9	723.0	514.9
82.5°	349.7	371.2	517.1	590.0	542.8	403.3	311.1	411.9	386.2	227.4
85°	203.8	193.1	231.7	328.3	311.1	223.1	150.2	214.5	201.7	115.9
87.5°	64.4	60.1	47.2	111.6	90.1	62.2	40.8	62.2	55.8	25.7
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°
10399.1	0°	10399.1	10399.1	10399.1	10399.1	10399.1	10399.1	10399.1	10399.1	10399.1	10399.1
10433.4	2.5°	10281.1	10027.9	9776.9	9547.3	9407.9	9317.7	9227.6	9126.8	9088.2	9030.2
10461.3	5°	10178.1	9688.9	9253.4	8877.9	8536.8	8268.6	7998.3	7779.4	7680.8	7747.3
10549.2	7.5°	10118.0	9410.0	8738.5	8049.8	7386.8	6856.9	6395.6	6071.7	5925.8	5962.2
10635.1	10°	10064.4	9094.6	8071.2	6983.5	6030.9	5374.4	4902.4	4655.7	4563.4	4582.7
10750.9	12.5°	10015.0	8740.6	7266.7	5835.7	4823.0	4389.6	4254.5	4256.6	4273.8	4286.6
10935.4	15°	10006.4	8313.7	6367.7	4831.6	4170.8	4142.9	4288.8	4381.0	4430.4	4445.4
11089.9	17.5°	9993.6	7803.0	5451.6	4147.2	4012.0	4200.8	4336.0	4396.1	4434.7	4436.8
11240.1	20°	9942.1	7155.1	4606.3	3821.1	3977.7	4140.7	4224.4	4271.6	4303.8	4314.5
11353.8	22.5°	9783.3	6434.2	3947.6	3675.2	3840.4	3971.3	4069.9	4123.6	4142.9	4155.8
11375.2	25°	9498.0	5627.5	3492.8	3535.7	3649.4	3814.6	3894.0	3904.7	3898.3	3917.6
11321.6	27.5°	9124.6	4762.9	3209.6	3346.9	3492.8	3634.4	3677.3	3670.9	3658.0	3679.5
11229.3	30°	8674.1	3986.3	3029.4	3134.5	3334.0	3462.8	3501.4	3486.4	3460.6	3484.2
11182.1	32.5°	8197.8	3351.2	2881.4	2986.5	3203.2	3329.8	3368.4	3353.4	3334.0	3353.4
11235.8	35°	7753.7	2907.1	2744.0	2887.8	3100.2	3224.6	3274.0	3276.1	3276.1	3299.7
11377.4	37.5°	7346.1	2647.5	2630.3	2825.6	3029.4	3141.0	3211.8	3216.0	3123.8	3130.2
11617.7	40°	6968.5	2538.1	2578.8	2784.8	2960.7	3068.0	3072.3	2832.0	2662.5	2658.2
11892.3	42.5°	6659.5	2516.6	2593.9	2780.5	2911.4	2915.7	2613.2	2426.5	2379.3	2381.5
12145.5	45°	6369.9	2510.2	2628.2	2780.5	2838.4	2518.8	2315.0	2265.6	2269.9	2287.1
12259.2	47.5°	6045.9	2484.4	2634.6	2741.9	2628.2	2239.9	2179.8	2158.3	2149.8	2154.0
12233.4	50°	5691.9	2392.2	2553.1	2664.7	2267.8	2119.7	2044.6	2038.2	2048.9	2055.4
12089.7	52.5°	5318.6	2242.0	2413.6	2525.2	2102.6	2014.6	1930.9	1945.9	1993.1	2008.2
11939.5	55°	5074.0	2066.1	2229.1	2246.3	1986.7	1915.9	1845.1	1879.4	1967.4	1995.3
11849.4	57.5°	5009.7	1879.4	2018.9	1999.6	1838.7	1830.1	1787.2	1817.2	1928.8	1969.5
11845.1	60°	4990.3	1712.1	1812.9	1797.9	1694.9	1735.7	1725.0	1740.0	1778.6	1791.5
11802.2	62.5°	4840.2	1579.1	1628.4	1607.0	1566.2	1637.0	1662.7	1630.6	1660.6	1675.6
11508.3	65°	4458.3	1471.8	1448.2	1433.2	1450.3	1514.7	1566.2	1501.8	1529.7	1572.6
10375.5	67.5°	3827.5	1325.9	1261.5	1278.7	1332.3	1366.7	1433.2	1360.2	1383.8	1456.8
8356.6	70°	3095.9	1141.4	1083.5	1132.8	1184.3	1255.1	1265.8	1216.5	1272.3	1353.8
5099.8	72.5°	2190.5	954.7	914.0	1014.8	1032.0	1124.2	1100.6	1077.0	1154.3	1182.1
2520.9	75°	1519.0	770.2	746.6	823.9	886.1	965.5	948.3	976.2	1139.2	1152.1
1259.4	77.5°	961.2	598.6	583.6	632.9	718.7	806.7	834.6	1152.1	1945.9	2023.2
654.4	80°	557.8	446.3	429.1	467.7	542.8	624.3	804.5	1413.9	1283.0	1268.0
293.9	82.5°	311.1	306.8	285.3	296.1	362.6	450.5	1137.1	995.5	808.8	834.6
118.0	85°	145.9	180.2	154.5	148.0	203.8	527.8	759.5	568.5	377.6	369.0
25.7	87.5°	38.6	34.3	34.3	38.6	85.8	454.8	302.5	242.4	143.7	139.5
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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