

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: P955060

Luminaire Tested: **GALN-SB8A-850-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955060  
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-SB8A-850-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

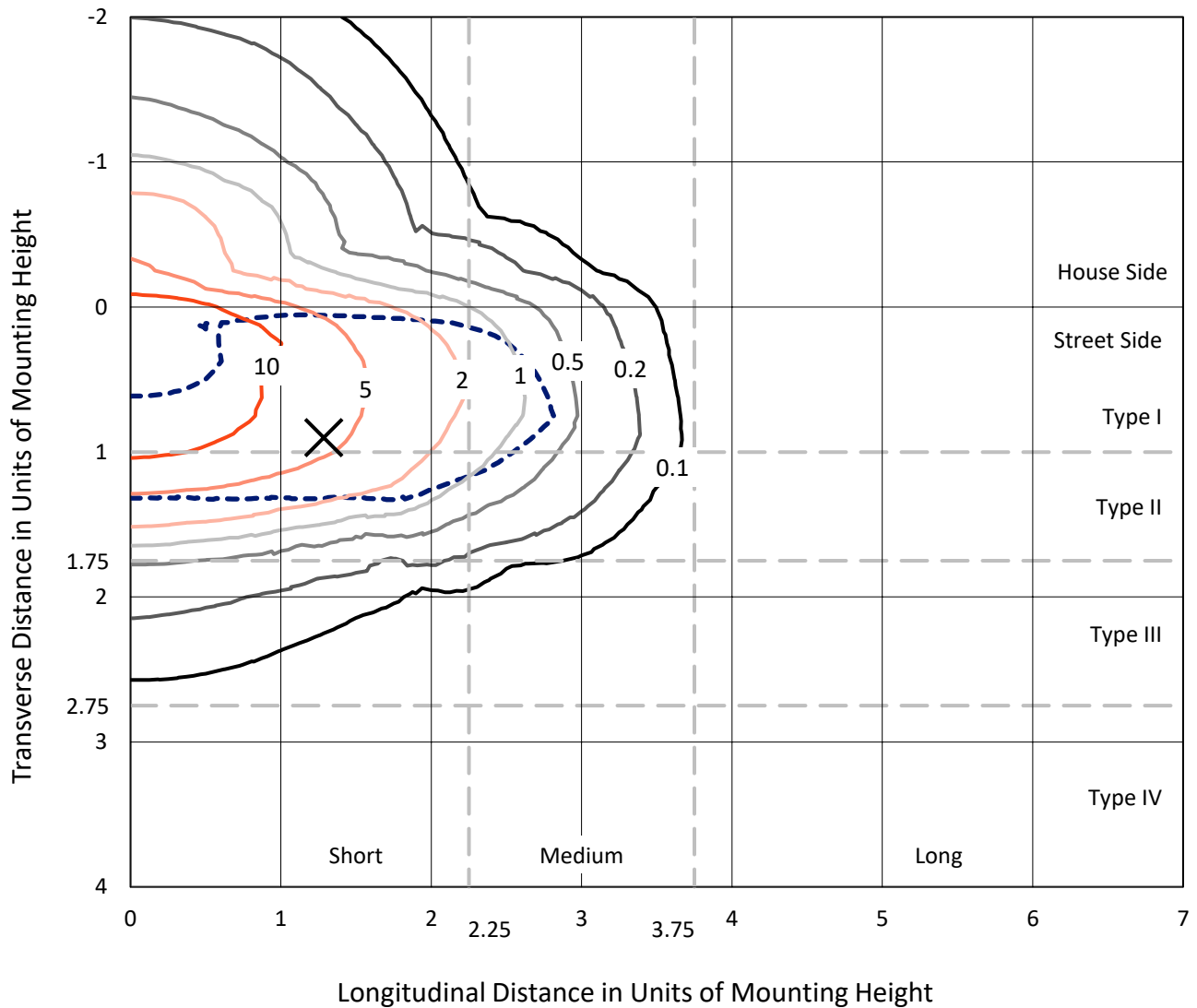
Lumens per Lamp: N/A  
Luminaire Lumens: 35286 lumens  
Efficiency: N/A  
Efficacy: 155.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

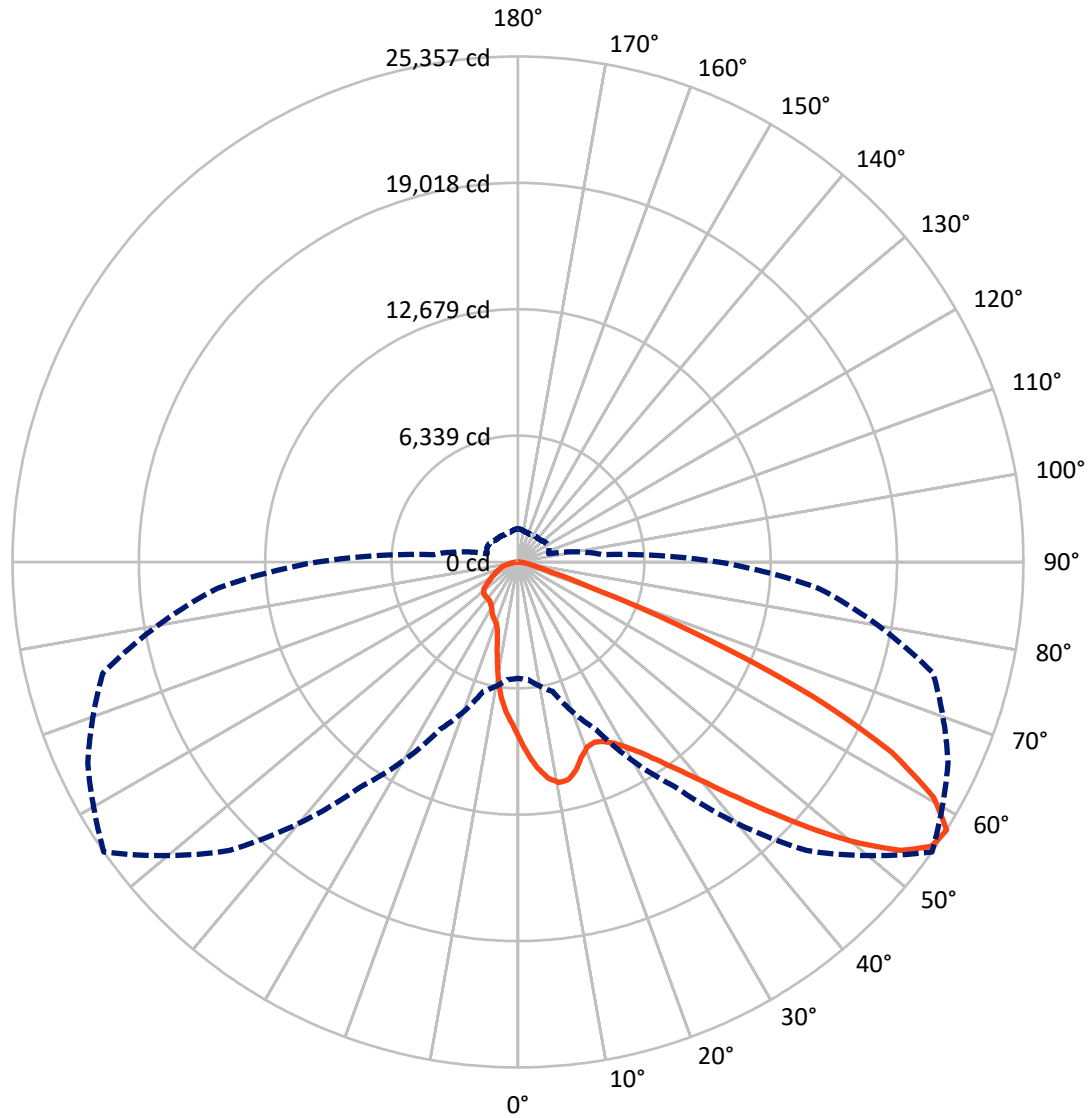
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 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	6384.8	0.0	6384.8
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	28901.2	0.0	28901.2
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	35286.0	0.0	35286.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	820.4	2.3
10°-20°	2070.8	5.9
20°-30°	3304.5	9.4
30°-40°	5231.8	14.8
40°-50°	8007.8	22.7
50°-60°	8577.1	24.3
60°-70°	5395.9	15.3
70°-80°	1595.7	4.5
80°-90°	282.1	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°	35286.0	100.0
0°-180°	35286.0	100.0

**Coefficient of Utilization**



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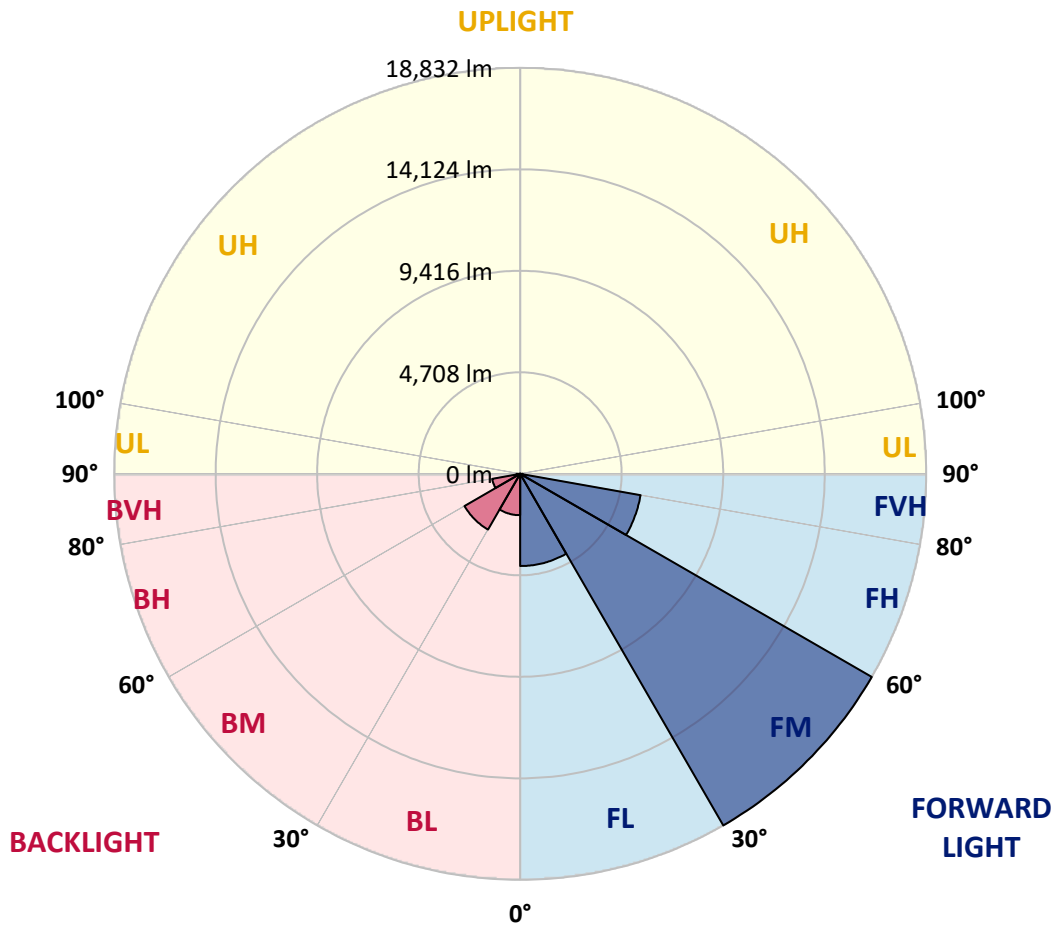
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4276.7	12.1			
FM (30°-60°)	18832.4	53.4			
FH (60°-80°)	5672.9	16.1			G3/7500
FVH (80°-90°)	119.2	0.3			G2/225
BL (0°-30°)	1919.1	5.4	B3/2500		
BM (30°-60°)	2984.2	8.5	B3/5000		
BH (60°-80°)	1318.6	3.7	B3/2500		G3/2500
BVH (80°-90°)	162.9	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°	8841.5	8841.5	8841.5	8841.5	8841.5	8841.5	8841.5	8841.5	8841.5	8841.5
2.5°	10144.0	10136.7	10176.8	10040.0	9946.9	9821.1	9655.1	9443.5	9215.5	8974.7
5°	11057.8	10994.0	11035.9	10933.8	10831.6	10641.9	10395.7	10050.9	9629.5	9149.8
7.5°	10913.7	10870.0	10977.6	11068.8	11145.4	11121.7	10941.1	10579.9	10036.3	9339.5
10°	9751.8	9702.5	9853.9	10169.5	10632.8	11035.9	11254.8	11030.5	10452.2	9547.5
12.5°	8726.6	8702.9	8803.2	9058.6	9573.0	10346.4	11214.7	11424.5	10884.5	9793.7
15°	8288.8	8259.6	8323.5	8453.0	8781.3	9501.9	10849.9	11694.5	11309.6	10078.3
17.5°	8192.1	8159.3	8186.7	8254.2	8465.8	9014.8	10299.0	11827.6	11752.8	10395.7
20°	8370.9	8343.5	8347.2	8343.5	8491.3	8927.3	9915.9	11776.5	12139.5	10687.5
22.5°	8803.2	8757.6	8759.4	8662.8	8743.0	9080.5	9815.6	11639.7	12484.3	10942.9
25°	9507.3	9425.2	9441.7	9195.4	9173.5	9423.4	9972.5	11533.9	12827.2	11147.2
27.5°	10470.5	10377.4	10328.2	9961.5	9786.4	9910.5	10291.7	11570.4	13151.9	11324.2
30°	11674.4	11561.3	11461.0	10941.1	10623.7	10578.1	10787.9	11811.2	13535.0	11510.2
32.5°	13150.1	13018.8	12836.4	12146.8	11699.9	11461.0	11430.0	12239.9	13983.7	11747.4
35°	14906.7	14735.3	14476.2	13584.2	13018.8	12529.9	12276.4	12858.2	14598.5	12104.9
37.5°	16716.3	16522.9	16285.8	15224.1	14529.1	13808.6	13308.8	13697.3	15417.5	12590.1
40°	18385.3	18168.3	17947.6	17002.7	16256.6	15388.3	14572.9	14759.0	16418.9	13170.2
42.5°	19370.4	19209.8	19125.9	18615.2	18038.8	17157.7	16145.3	16017.6	17544.4	13837.8
45°	19326.6	19260.9	19519.9	19731.5	19594.7	19105.9	17987.7	17409.4	18673.6	14416.0
47.5°	18294.1	18337.9	18916.2	20105.5	20629.0	20884.4	20085.4	18775.7	19654.9	14848.4
50°	15485.0	15521.5	16860.4	19425.1	20895.3	22334.6	22166.7	20109.1	20415.6	15112.9
52.5°	13261.4	13285.1	13859.7	17407.6	20016.1	23064.2	24041.9	21366.0	20971.9	15185.8
55°	9988.9	10071.0	10714.9	13657.2	17728.7	22486.0	25183.8	22661.1	21324.0	15193.1
57.5°	5835.4	5924.8	6720.1	9270.2	13779.4	20470.3	25357.1	23810.3	21563.0	15134.8
60°	2858.4	2896.7	3243.3	4872.2	8496.8	16586.8	23963.5	24366.6	21696.1	15103.7
62.5°	1926.3	1920.8	1935.4	2404.2	4186.4	10656.5	21059.5	23392.6	21625.0	14985.2
65°	1656.3	1636.2	1581.5	1687.3	2168.9	4874.1	16271.2	20484.9	21083.2	14687.8
67.5°	1431.9	1433.8	1435.6	1402.8	1548.7	2249.1	9943.3	16136.2	19138.7	13279.6
70°	1185.7	1202.1	1209.4	1209.4	1262.3	1475.7	4244.7	11059.7	15096.4	10412.1
72.5°	1079.9	1045.2	1048.9	1030.6	1030.6	1123.7	1709.2	6269.5	9511.0	5857.3
75°	881.1	902.9	906.6	893.8	851.9	857.3	1014.2	2630.4	4069.6	2429.7
77.5°	760.7	760.7	768.0	758.8	726.0	642.1	676.7	1019.7	1384.5	996.0
80°	611.1	609.3	640.3	658.5	607.4	474.3	432.3	563.7	614.7	437.8
82.5°	297.3	315.6	439.6	501.6	461.5	342.9	264.5	350.2	328.3	193.4
85°	173.3	164.2	197.0	279.1	264.5	189.7	127.7	182.4	171.5	98.5
87.5°	54.7	51.1	40.1	94.9	76.6	52.9	34.7	52.9	47.4	21.9
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°
8841.5	0°	8841.5	8841.5	8841.5	8841.5	8841.5	8841.5	8841.5	8841.5	8841.5	8841.5
8870.7	2.5°	8741.2	8526.0	8312.5	8117.3	7998.8	7922.2	7845.6	7759.8	7727.0	7677.7
8894.4	5°	8653.6	8237.7	7867.4	7548.2	7258.2	7030.2	6800.3	6614.3	6530.4	6586.9
8969.2	7.5°	8602.6	8000.6	7429.7	6844.1	6280.5	5829.9	5437.7	5162.3	5038.2	5069.2
9042.2	10°	8557.0	7732.5	6862.4	5937.5	5127.6	4569.4	4168.1	3958.3	3879.9	3896.3
9140.7	12.5°	8515.0	7431.5	6178.3	4961.6	4100.6	3732.2	3617.2	3619.1	3633.7	3644.6
9297.6	15°	8507.7	7068.5	5414.0	4107.9	3546.1	3522.4	3646.4	3724.9	3766.8	3779.6
9428.9	17.5°	8496.8	6634.3	4635.1	3526.0	3411.1	3571.6	3686.6	3737.6	3770.5	3772.3
9556.6	20°	8453.0	6083.5	3916.4	3248.8	3381.9	3520.6	3591.7	3631.8	3659.2	3668.3
9653.3	22.5°	8318.0	5470.5	3356.4	3124.7	3265.2	3376.5	3460.4	3506.0	3522.4	3533.3
9671.5	25°	8075.4	4784.7	2969.7	3006.2	3102.8	3243.3	3310.8	3319.9	3314.4	3330.8
9625.9	27.5°	7758.0	4049.6	2728.9	2845.6	2969.7	3090.1	3126.5	3121.1	3110.1	3128.4
9547.5	30°	7374.9	3389.2	2575.7	2665.0	2834.7	2944.1	2977.0	2964.2	2942.3	2962.4
9507.3	32.5°	6970.0	2849.3	2449.8	2539.2	2723.4	2831.0	2863.9	2851.1	2834.7	2851.1
9552.9	35°	6592.4	2471.7	2333.1	2455.3	2635.9	2741.7	2783.6	2785.4	2785.4	2805.5
9673.3	37.5°	6245.8	2251.0	2236.4	2402.4	2575.7	2670.5	2730.7	2734.4	2655.9	2661.4
9877.6	40°	5924.8	2157.9	2192.6	2367.7	2517.3	2608.5	2612.1	2407.8	2263.7	2260.1
10111.1	42.5°	5662.1	2139.7	2205.4	2364.1	2475.3	2479.0	2221.8	2063.1	2023.0	2024.8
10326.4	45°	5415.8	2134.2	2234.6	2364.1	2413.3	2141.5	1968.2	1926.3	1929.9	1944.5
10423.0	47.5°	5140.4	2112.3	2240.0	2331.2	2234.6	1904.4	1853.3	1835.1	1827.8	1831.4
10401.2	50°	4839.4	2033.9	2170.7	2265.6	1928.1	1802.2	1738.4	1732.9	1742.0	1747.5
10278.9	52.5°	4522.0	1906.2	2052.1	2147.0	1787.6	1712.9	1641.7	1654.5	1694.6	1707.4
10151.2	55°	4314.1	1756.6	1895.3	1909.9	1689.1	1628.9	1568.7	1597.9	1672.7	1696.4
10074.6	57.5°	4259.3	1597.9	1716.5	1700.1	1563.3	1556.0	1519.5	1545.0	1639.9	1674.5
10071.0	60°	4242.9	1455.7	1541.4	1528.6	1441.1	1475.7	1466.6	1479.4	1512.2	1523.1
10034.5	62.5°	4115.2	1342.6	1384.5	1366.3	1331.6	1391.8	1413.7	1386.3	1411.9	1424.6
9784.6	65°	3790.5	1251.3	1231.3	1218.5	1233.1	1287.8	1331.6	1276.9	1300.6	1337.1
8821.5	67.5°	3254.2	1127.3	1072.6	1087.2	1132.8	1162.0	1218.5	1156.5	1176.6	1238.6
7105.0	70°	2632.2	970.4	921.2	963.1	1006.9	1067.1	1076.2	1034.3	1081.7	1151.0
4335.9	72.5°	1862.4	811.7	777.1	862.8	877.4	955.8	935.8	915.7	981.4	1005.1
2143.3	75°	1291.5	654.9	634.8	700.5	753.4	820.9	806.3	830.0	968.6	979.6
1070.8	77.5°	817.2	508.9	496.2	538.1	611.1	685.9	709.6	979.6	1654.5	1720.1
556.4	80°	474.3	379.4	364.8	397.7	461.5	530.8	684.0	1202.1	1090.8	1078.1
249.9	82.5°	264.5	260.8	242.6	251.7	308.3	383.1	966.8	846.4	687.7	709.6
100.3	85°	124.0	153.2	131.3	125.9	173.3	448.7	645.7	483.4	321.0	313.7
21.9	87.5°	32.8	29.2	29.2	32.8	73.0	386.7	257.2	206.1	122.2	118.6
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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