

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: P952140

Luminaire Tested: **GALN-SB6A-830-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952140  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6A-830-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

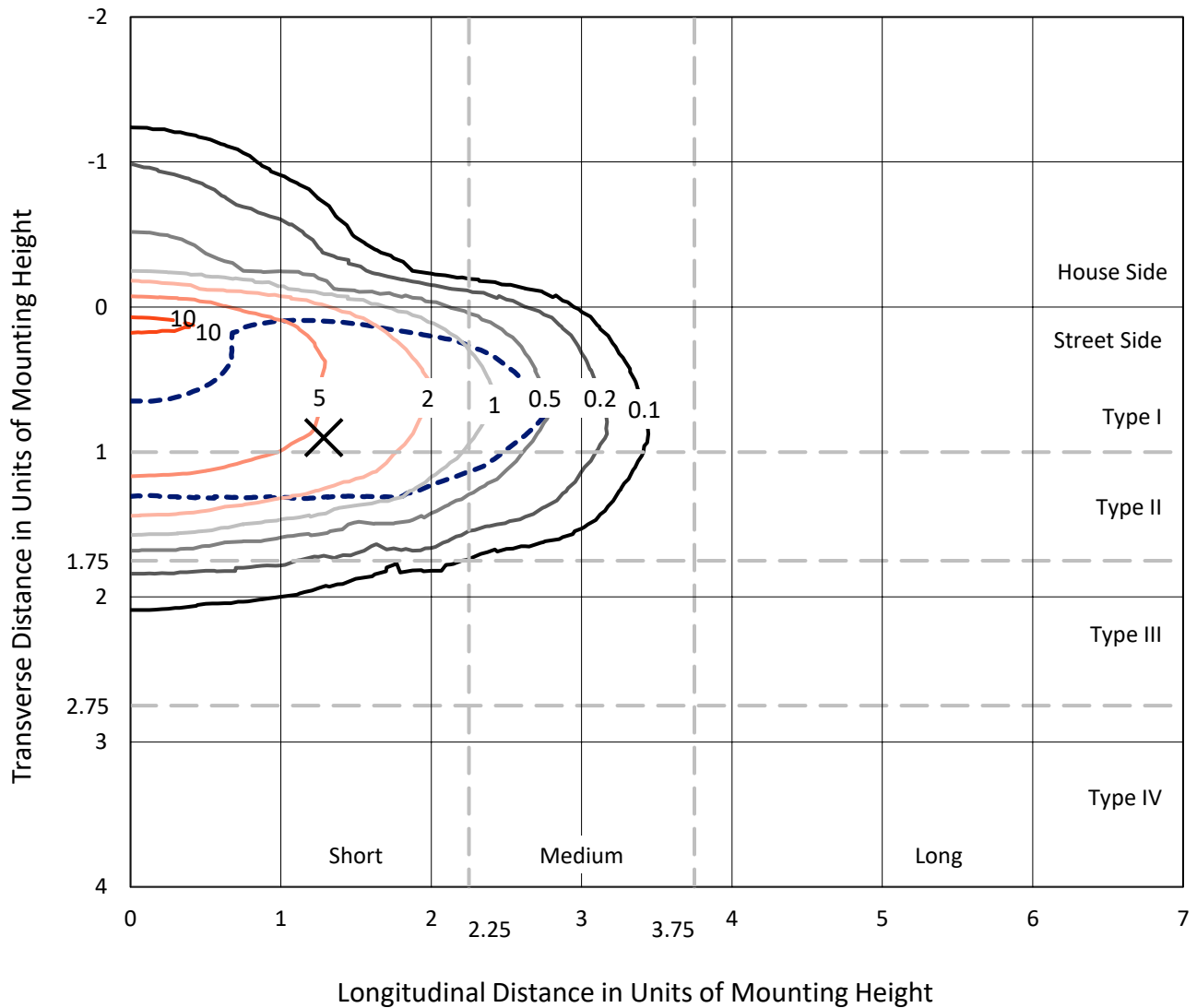
Lumens per Lamp: N/A  
Luminaire Lumens: 20840 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

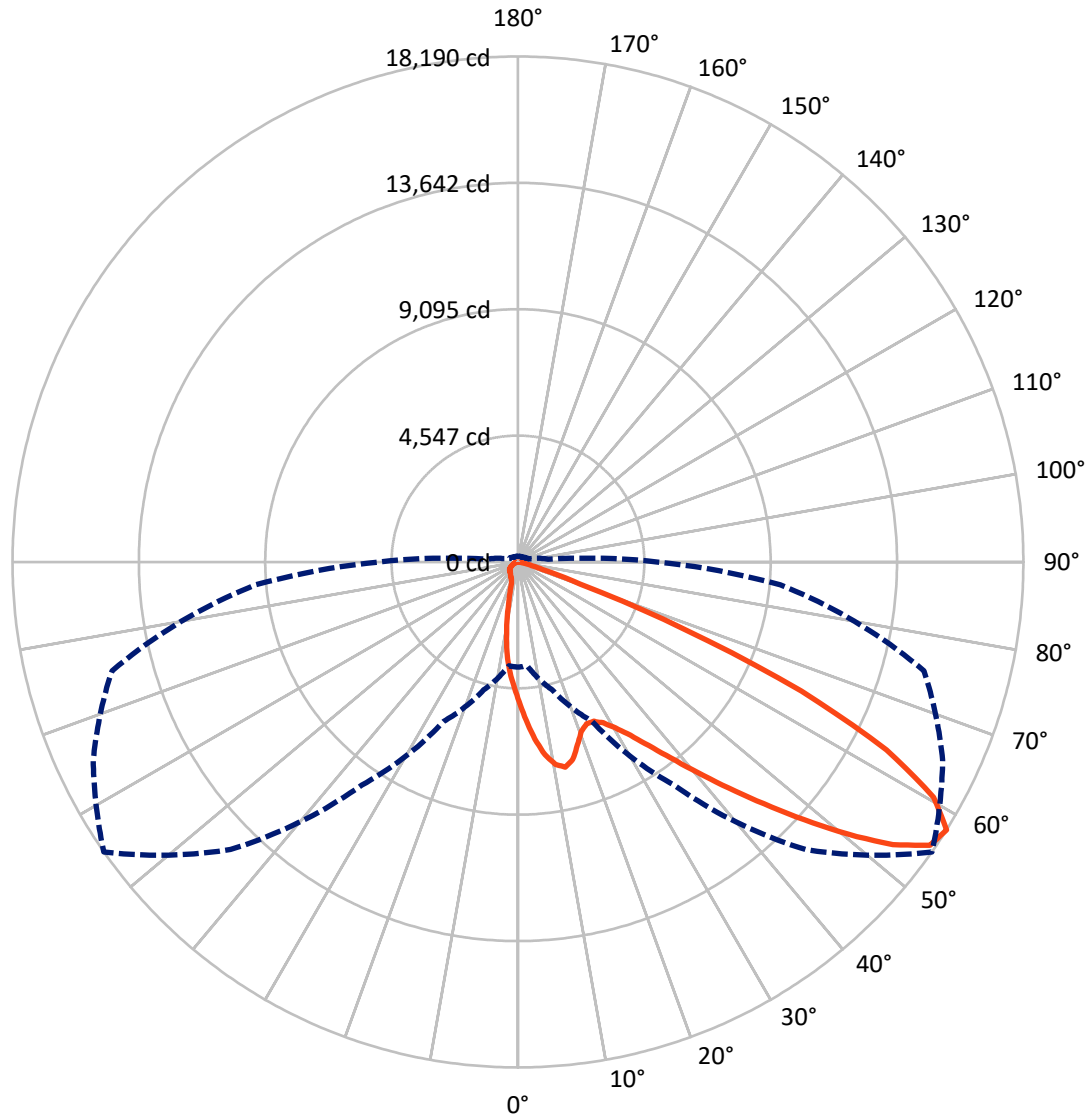
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	1627.5	0.0	1627.5
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	19212.5	0.0	19212.5
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	20840.0	0.0	20840.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	467.3	2.2
10°-20°	1128.7	5.4
20°-30°	1805.9	8.7
30°-40°	3056.5	14.7
40°-50°	5018.2	24.1
50°-60°	5515.3	26.5
60°-70°	3163.6	15.2
70°-80°	646.4	3.1
80°-90°	38.1	0.2
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°	20840.0	100.0
0°-180°	20840.0	100.0

**Coefficient of Utilization**



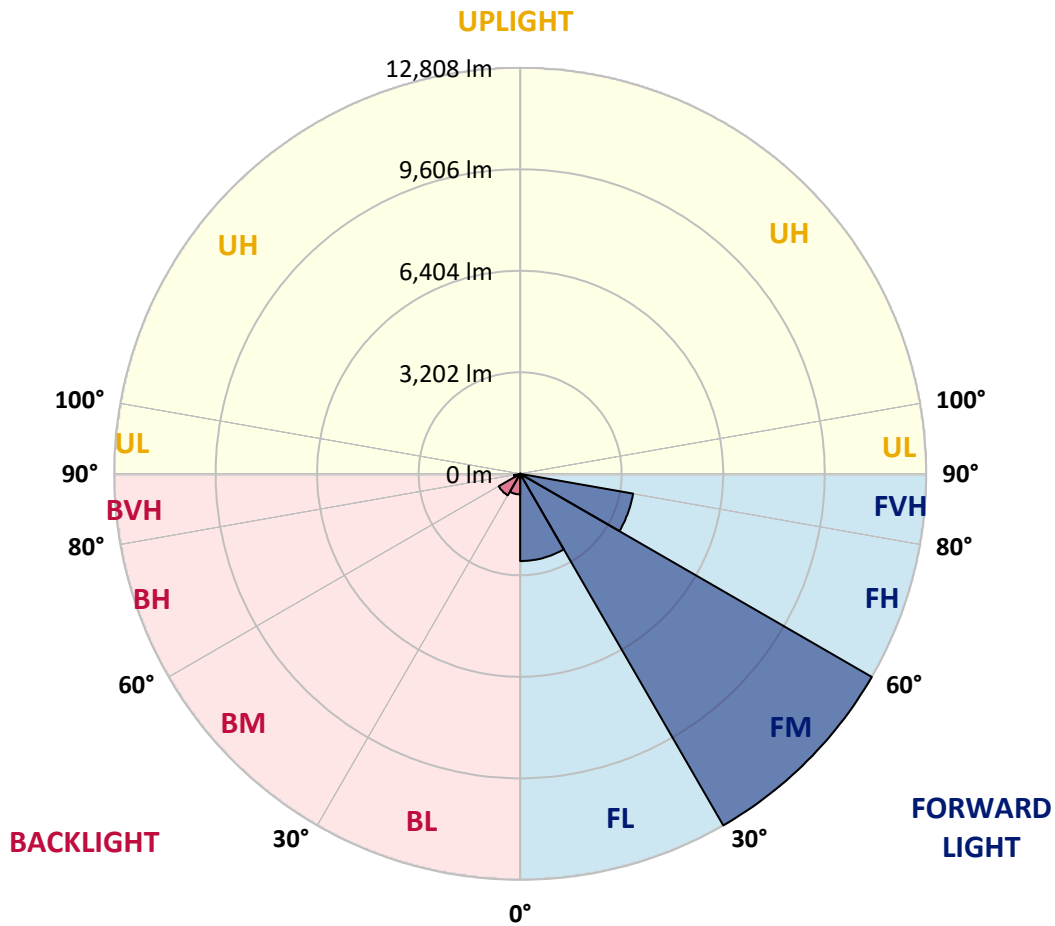
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2752.1	13.2			
FM (30°-60°)	12808.4	61.5			
FH (60°-80°)	3616.5	17.4			G2/5000
FVH (80°-90°)	35.6	0.2			G1/100
BL (0°-30°)	649.7	3.1	B2/1000		
BM (30°-60°)	781.6	3.8	B1/1000		
BH (60°-80°)	193.6	0.9	B1/500		G1/500
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5021.9	5021.9	5021.9	5021.9	5021.9	5021.9	5021.9	5021.9	5021.9	5021.9
2.5°	6231.1	6152.8	6141.2	6125.8	5976.7	5864.9	5703.0	5525.7	5326.5	5123.4
5°	7198.8	7137.1	7125.5	7053.6	6883.9	6693.8	6405.9	6042.2	5670.9	5234.0
7.5°	7386.4	7374.8	7427.5	7424.9	7401.8	7251.5	7008.6	6575.5	6017.8	5370.2
10°	6549.8	6579.4	6736.2	6873.7	7245.0	7460.9	7408.2	7051.0	6375.1	5525.7
12.5°	5787.8	5753.1	5864.9	6020.4	6452.2	7094.7	7574.0	7448.1	6783.7	5701.7
15°	5309.8	5295.6	5358.6	5430.6	5759.5	6407.2	7381.3	7770.6	7176.9	5909.9
17.5°	5156.9	5145.3	5164.6	5182.6	5395.9	5897.0	6922.5	7968.5	7553.5	6147.6
20°	5281.5	5266.1	5263.5	5249.4	5338.0	5679.9	6507.4	7982.7	7891.4	6363.5
22.5°	5645.2	5627.2	5564.2	5507.7	5515.4	5709.4	6322.4	7841.3	8145.9	6565.3
25°	6304.4	6274.8	6143.8	5953.6	5832.8	5915.0	6350.7	7655.0	8388.7	6723.3
27.5°	7129.4	7090.8	6922.5	6639.8	6363.5	6263.3	6555.0	7526.5	8590.5	6844.1
30°	7937.7	7887.6	7721.8	7502.0	7098.5	6782.4	6923.8	7583.0	8830.8	6970.0
32.5°	8810.2	8762.7	8542.9	8270.5	7936.4	7511.0	7428.8	7859.3	9125.1	7146.1
35°	9914.1	9839.5	9527.3	9155.9	8801.2	8370.7	8112.4	8336.0	9517.0	7414.7
37.5°	11170.8	11070.6	10733.9	10221.2	9758.6	9276.7	8945.1	8991.4	10091.4	7774.5
40°	12355.6	12264.4	11953.4	11470.2	10889.4	10304.7	9951.3	9848.5	10884.3	8212.7
42.5°	13066.3	12984.0	12852.9	12648.6	12159.0	11562.8	11116.9	10894.5	11822.3	8737.0
45°	13106.1	13034.1	13210.2	13447.9	13351.5	12954.5	12410.9	12003.5	12764.3	9229.1
47.5°	12468.7	12419.9	12954.5	13784.6	14198.4	14365.4	13864.3	13020.0	13541.7	9582.5
50°	10731.3	10713.4	11813.3	13337.4	14520.9	15601.6	15397.3	13965.8	14144.4	9765.0
52.5°	9305.0	9239.4	9880.7	11905.9	14051.9	16251.9	16895.7	14893.6	14565.9	9799.7
55°	7057.4	6999.6	7804.0	9510.6	12539.4	16020.6	17991.8	15850.9	14867.9	9711.0
57.5°	3785.7	3749.7	4766.2	6330.1	9802.3	14632.7	18189.7	16863.5	15122.3	9475.9
60°	1473.9	1467.5	1847.9	3071.2	5957.4	11904.6	17191.2	17471.4	15281.7	9186.7
62.5°	891.8	911.1	972.8	1378.8	2631.8	7395.4	14889.7	16780.0	15388.3	8922.0
65°	737.6	738.9	746.6	947.1	1260.6	3094.4	11209.4	14505.5	15124.9	8450.4
67.5°	632.2	643.8	673.4	751.7	889.2	1357.0	6453.5	11236.4	13522.4	7353.0
70°	498.6	514.0	551.3	618.1	686.2	849.4	2385.0	7476.3	10330.4	5542.4
72.5°	420.2	418.9	438.2	502.4	544.9	597.5	917.5	4189.2	6003.7	2645.9
75°	325.1	338.0	362.4	420.2	445.9	433.1	497.3	1530.5	2151.2	801.9
77.5°	254.4	264.7	286.6	343.1	368.8	307.1	286.6	547.4	691.4	287.8
80°	114.4	123.4	195.3	253.2	300.7	212.0	155.5	280.1	307.1	131.1
82.5°	20.6	34.7	114.4	133.6	154.2	137.5	81.0	145.2	150.3	52.7
85°	1.3	2.6	39.8	48.8	61.7	45.0	24.4	57.8	50.1	18.0
87.5°	0.0	0.0	0.0	1.3	1.3	6.4	7.7	10.3	7.7	6.4
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°
5021.9	0°	5021.9	5021.9	5021.9	5021.9	5021.9	5021.9	5021.9	5021.9	5021.9	5021.9
5033.5	2.5°	4941.0	4758.5	4581.2	4435.9	4351.1	4207.2	4112.1	4096.7	4056.9	4091.6
5046.3	5°	4845.9	4519.5	4189.2	3893.7	3650.8	3337.2	3103.4	3004.4	2918.3	2947.9
5079.8	7.5°	4800.9	4285.6	3771.6	3266.6	2747.4	2246.2	1873.6	1718.1	1599.9	1616.6
5117.0	10°	4740.5	4042.7	3237.0	2466.0	1770.8	1276.0	1019.0	923.9	871.3	872.5
5172.3	12.5°	4694.2	3752.3	2616.3	1671.8	1078.1	814.7	735.0	711.9	696.5	697.8
5255.8	15°	4671.1	3410.5	2003.4	1114.1	771.0	690.1	670.8	660.5	650.2	648.9
5348.3	17.5°	4632.6	3030.1	1466.2	813.4	674.6	646.4	629.7	618.1	605.3	602.7
5428.0	20°	4574.7	2598.3	1071.7	687.5	632.2	610.4	587.3	571.8	556.4	553.9
5478.1	22.5°	4468.1	2142.2	823.7	636.1	601.4	577.0	548.7	530.7	515.3	512.7
5453.7	25°	4270.2	1714.2	693.9	604.0	574.4	544.9	514.0	489.6	475.5	472.9
5401.0	27.5°	4019.6	1346.7	629.7	574.4	539.7	512.7	478.0	454.9	442.1	439.5
5331.6	30°	3724.0	1037.0	592.4	541.0	498.6	475.5	444.6	425.3	417.6	417.6
5282.8	32.5°	3405.3	828.8	577.0	507.6	462.6	436.9	412.5	404.8	402.2	400.9
5309.8	35°	3105.9	719.6	569.3	480.6	430.5	406.1	395.8	397.1	402.2	402.2
5393.3	37.5°	2839.9	684.9	565.4	461.3	402.2	380.4	386.8	398.4	393.2	393.2
5539.8	40°	2599.6	688.8	562.8	447.2	379.1	366.2	379.1	370.1	357.2	356.0
5718.4	42.5°	2415.9	720.9	557.7	435.6	365.0	356.0	350.8	336.7	335.4	338.0
5903.5	45°	2282.2	749.2	556.4	430.5	349.5	332.8	326.4	312.3	338.0	344.4
5979.3	47.5°	2124.2	749.2	556.4	412.5	323.8	317.4	307.1	291.7	317.4	323.8
5907.3	50°	1919.8	701.6	534.6	391.9	303.3	299.4	281.4	262.1	257.0	260.9
5739.0	52.5°	1661.6	615.5	479.3	363.7	282.7	275.0	253.2	239.0	235.2	235.2
5437.0	55°	1367.3	515.3	404.8	322.5	260.9	246.7	231.3	224.9	221.0	218.5
5014.2	57.5°	1111.6	422.8	325.1	286.6	240.3	222.3	217.2	209.5	203.0	199.2
4660.8	60°	912.4	332.8	268.6	254.4	219.7	203.0	201.8	191.5	174.8	172.2
4369.1	62.5°	704.2	244.2	226.2	221.0	199.2	185.0	182.5	161.9	136.2	131.1
3955.3	65°	497.3	190.2	182.5	194.0	177.3	164.5	158.1	127.2	100.2	96.4
3310.3	67.5°	349.5	159.3	143.9	169.6	154.2	137.5	133.6	107.9	83.5	81.0
2503.3	70°	249.3	129.8	118.2	145.2	123.4	120.8	113.1	90.0	68.1	65.5
1238.8	72.5°	176.1	98.9	91.2	125.9	84.8	104.1	92.5	69.4	51.4	48.8
421.5	75°	129.8	70.7	64.3	73.2	61.7	78.4	65.5	46.3	32.1	30.8
190.2	77.5°	95.1	45.0	38.6	36.0	36.0	48.8	36.0	19.3	14.1	12.9
96.4	80°	66.8	20.6	18.0	15.4	14.1	11.6	5.1	2.6	1.3	1.3
33.4	82.5°	39.8	9.0	9.0	6.4	3.9	0.0	0.0	0.0	0.0	0.0
12.9	85°	9.0	3.9	3.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0
5.1	87.5°	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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