

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: P951573

Luminaire Tested: **GALN-SB5C-940-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951573  
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-SB5C-940-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

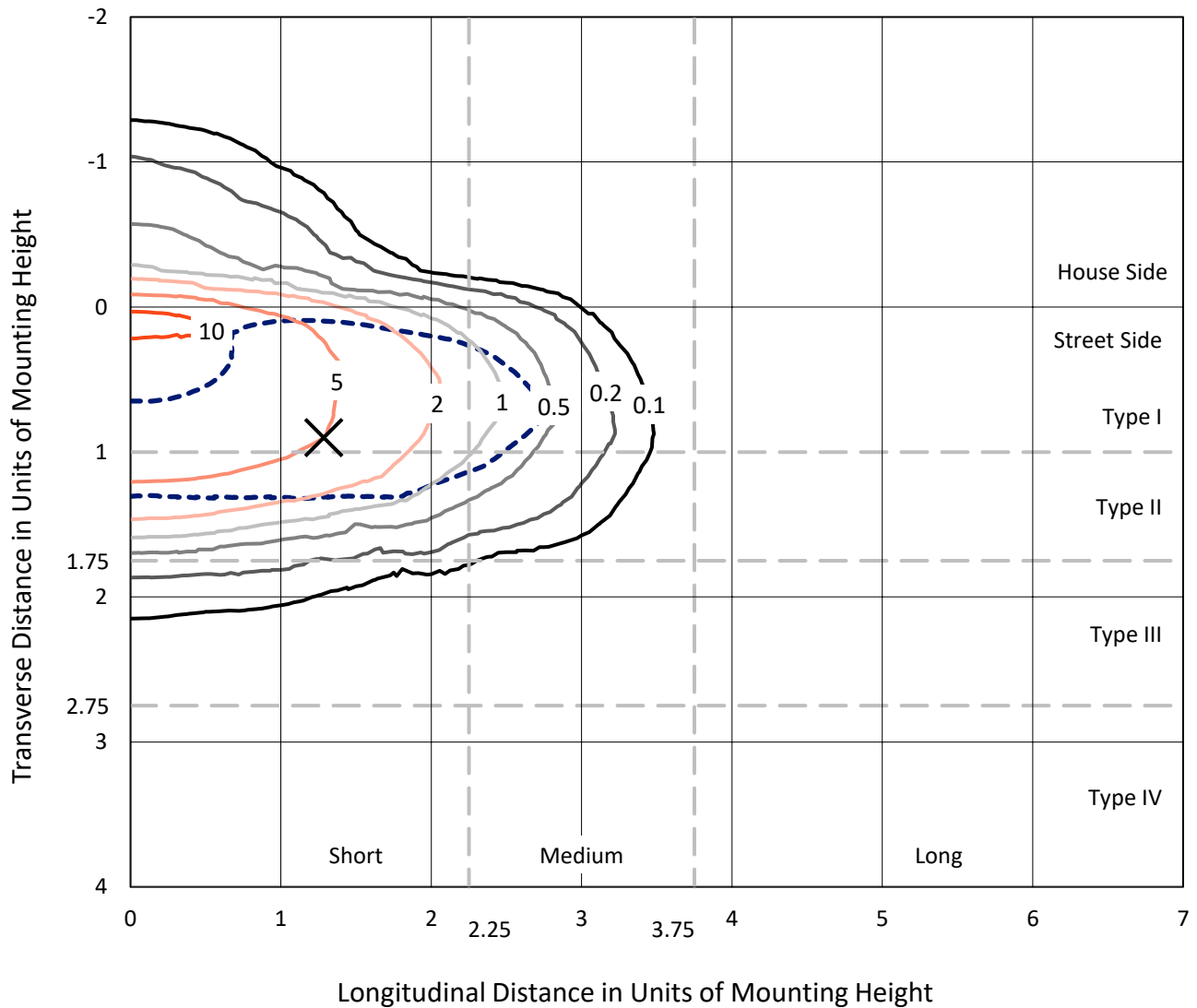
Lumens per Lamp: N/A  
Luminaire Lumens: 23373 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

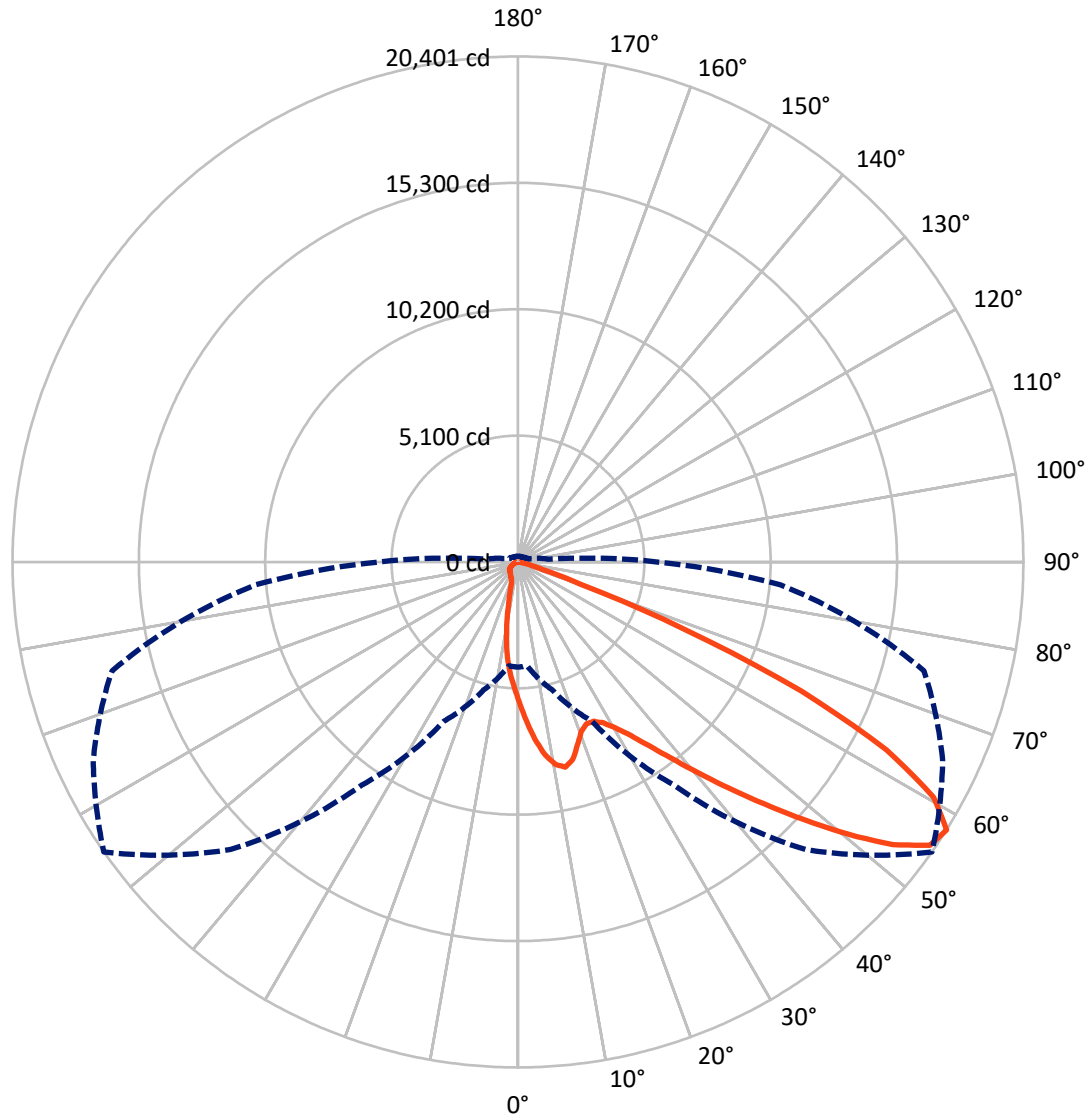
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	1825.3	0.0	1825.3
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	21547.7	0.0	21547.7
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	23373.0	0.0	23373.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	524.1	2.2
10°-20°	1265.9	5.4
20°-30°	2025.4	8.7
30°-40°	3428.0	14.7
40°-50°	5628.1	24.1
50°-60°	6185.7	26.5
60°-70°	3548.1	15.2
70°-80°	725.0	3.1
80°-90°	42.8	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°	23373.0	100.0
0°-180°	23373.0	100.0

**Coefficient of Utilization**



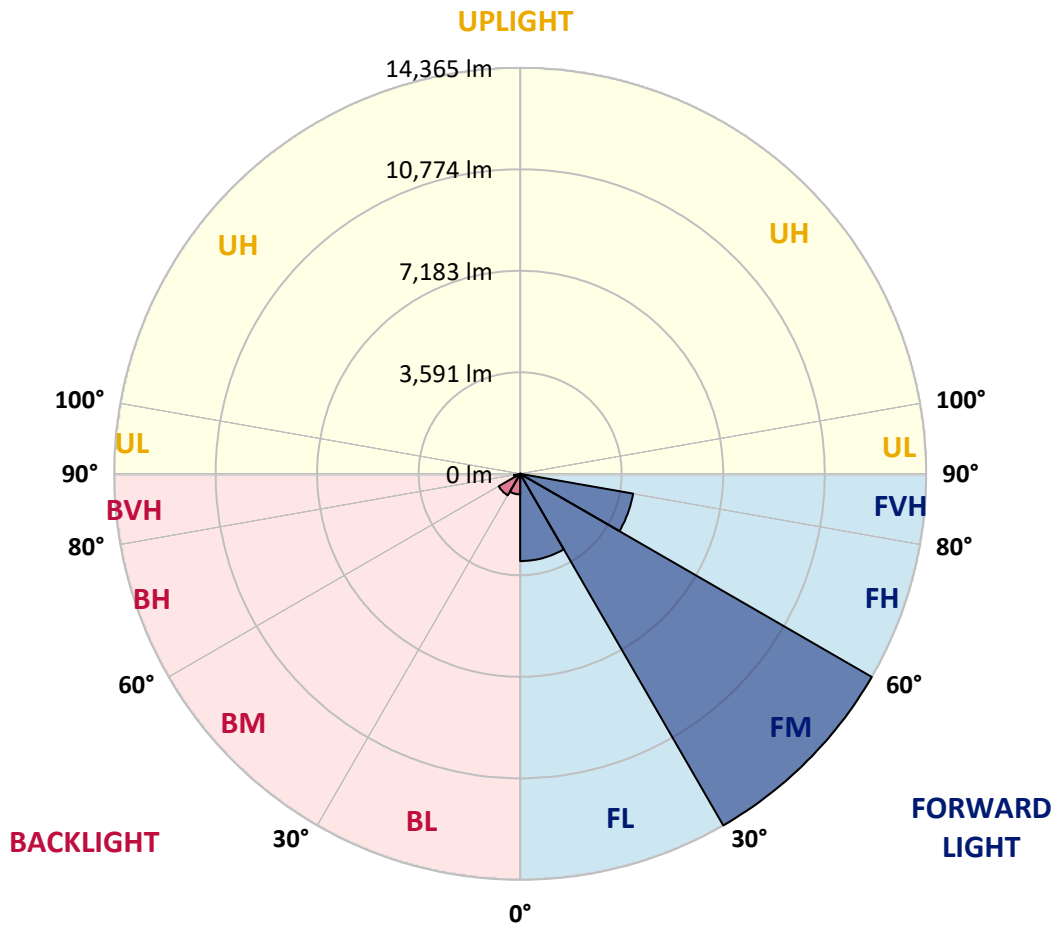
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3086.5	13.2			
FM (30°-60°)	14365.2	61.5			
FH (60°-80°)	4056.0	17.4			G2/5000
FVH (80°-90°)	39.9	0.2			G1/100
BL (0°-30°)	728.7	3.1	B2/1000		
BM (30°-60°)	876.6	3.8	B1/1000		
BH (60°-80°)	217.1	0.9	B1/500		G1/500
BVH (80°-90°)	2.9	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°	5632.3	5632.3	5632.3	5632.3	5632.3	5632.3	5632.3	5632.3	5632.3	5632.3
2.5°	6988.5	6900.6	6887.6	6870.3	6703.1	6577.8	6396.2	6197.3	5973.9	5746.2
5°	8073.8	8004.6	7991.6	7910.9	7720.7	7507.4	7184.5	6776.7	6360.1	5870.1
7.5°	8284.2	8271.2	8330.3	8327.4	8301.5	8132.8	7860.5	7374.8	6749.3	6022.9
10°	7345.9	7379.1	7554.9	7709.1	8125.6	8367.8	8308.7	7908.0	7149.9	6197.3
12.5°	6491.3	6452.4	6577.8	6752.2	7236.4	7957.0	8494.6	8353.4	7608.2	6394.7
15°	5955.2	5939.3	6009.9	6090.6	6459.6	7186.0	8278.4	8715.1	8049.3	6628.2
17.5°	5783.6	5770.7	5792.3	5812.5	6051.7	6613.8	7763.9	8937.1	8471.5	6894.8
20°	5923.4	5906.2	5903.3	5887.4	5986.9	6370.2	7298.4	8952.9	8850.6	7137.0
22.5°	6331.3	6311.1	6240.5	6177.1	6185.7	6403.4	7090.8	8794.4	9135.9	7363.2
25°	7070.7	7037.5	6890.5	6677.2	6541.7	6634.0	7122.5	8585.4	9408.3	7540.5
27.5°	7995.9	7952.7	7763.9	7446.8	7137.0	7024.5	7351.7	8441.3	9634.6	7676.0
30°	8902.5	8846.3	8660.3	8413.9	7961.3	7606.8	7765.3	8504.7	9904.1	7817.2
32.5°	9881.1	9827.7	9581.3	9275.7	8901.0	8424.0	8331.7	8814.5	10234.2	8014.7
35°	11119.1	11035.5	10685.3	10268.7	9871.0	9388.2	9098.5	9349.2	10673.7	8315.9
37.5°	12528.6	12416.2	12038.6	11463.5	10944.7	10404.2	10032.4	10084.3	11318.0	8719.4
40°	13857.4	13755.1	13406.3	12864.4	12213.0	11557.2	11160.9	11045.6	12207.2	9210.9
42.5°	14654.4	14562.2	14415.2	14186.0	13636.9	12968.2	12468.1	12218.7	13259.3	9798.9
45°	14699.1	14618.4	14815.8	15082.4	14974.4	14529.0	13919.4	13462.5	14315.7	10350.9
47.5°	13984.2	13929.5	14529.0	15460.0	15924.1	16111.5	15549.4	14602.5	15187.7	10747.2
50°	12035.7	12015.5	13249.2	14958.5	16285.9	17497.9	17268.8	15663.3	15863.6	10951.9
52.5°	10435.9	10362.4	11081.6	13353.0	15759.8	18227.2	18949.3	16703.8	16336.3	10990.8
55°	7915.2	7850.4	8752.6	10666.5	14063.5	17967.8	20178.6	17777.5	16675.0	10891.4
57.5°	4245.9	4205.5	5345.5	7099.5	10993.7	16411.3	20400.6	18913.2	16960.4	10627.6
60°	1653.1	1645.9	2072.5	3444.5	6681.5	13351.5	19280.7	19594.9	17139.1	10303.3
62.5°	1000.2	1021.8	1091.0	1546.4	2951.6	8294.3	16699.5	18819.5	17258.7	10006.4
65°	827.3	828.7	837.4	1062.2	1413.8	3470.5	12571.8	16268.6	16963.2	9477.5
67.5°	709.1	722.1	755.2	843.1	997.3	1521.9	7237.8	12602.1	15166.0	8246.7
70°	559.2	576.5	618.3	693.2	769.6	952.7	2674.9	8385.1	11586.0	6216.0
72.5°	471.3	469.8	491.5	563.5	611.1	670.2	1029.0	4698.4	6733.4	2967.5
75°	364.6	379.0	406.4	471.3	500.1	485.7	557.8	1716.5	2412.6	899.3
77.5°	285.4	296.9	321.4	384.8	413.6	344.5	321.4	614.0	775.4	322.8
80°	128.3	138.4	219.1	283.9	337.2	237.8	174.4	314.2	344.5	147.0
82.5°	23.1	38.9	128.3	149.9	172.9	154.2	90.8	162.9	168.6	59.1
85°	1.4	2.9	44.7	54.8	69.2	50.4	27.4	64.9	56.2	20.2
87.5°	0.0	0.0	0.0	1.4	1.4	7.2	8.6	11.5	8.6	7.2
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°
5632.3	0°	5632.3	5632.3	5632.3	5632.3	5632.3	5632.3	5632.3	5632.3	5632.3	5632.3
5645.3	2.5°	5541.5	5336.9	5138.0	4975.1	4880.0	4718.6	4611.9	4594.6	4550.0	4588.9
5659.7	5°	5434.9	5068.8	4698.4	4366.9	4094.5	3742.9	3480.6	3369.6	3273.0	3306.2
5697.2	7.5°	5384.4	4806.5	4230.0	3663.6	3081.3	2519.3	2101.3	1926.9	1794.3	1813.1
5739.0	10°	5316.7	4534.1	3630.5	2765.7	1986.0	1431.1	1142.9	1036.2	977.2	978.6
5800.9	12.5°	5264.8	4208.4	2934.3	1875.0	1209.2	913.7	824.4	798.4	781.1	782.6
5894.6	15°	5238.9	3825.0	2246.9	1249.5	864.7	773.9	752.3	740.8	729.3	727.8
5998.4	17.5°	5195.6	3398.4	1644.4	912.3	756.6	724.9	706.2	693.2	678.8	675.9
6087.7	20°	5130.8	2914.2	1202.0	771.1	709.1	684.6	658.6	641.3	624.1	621.2
6144.0	22.5°	5011.1	2402.5	923.8	713.4	674.5	647.1	615.4	595.2	577.9	575.0
6116.6	25°	4789.2	1922.6	778.3	677.4	644.2	611.1	576.5	549.1	533.3	530.4
6057.5	27.5°	4508.2	1510.4	706.2	644.2	605.3	575.0	536.1	510.2	495.8	492.9
5979.7	30°	4176.7	1163.1	664.4	606.8	559.2	533.3	498.7	477.0	468.4	468.4
5924.9	32.5°	3819.3	929.6	647.1	569.3	518.8	490.0	462.6	454.0	451.1	449.7
5955.2	35°	3483.4	807.1	638.5	539.0	482.8	455.4	443.9	445.3	451.1	451.1
6048.8	37.5°	3185.1	768.2	634.1	517.4	451.1	426.6	433.8	446.8	441.0	441.0
6213.1	40°	2915.6	772.5	631.3	501.5	425.2	410.7	425.2	415.1	400.7	399.2
6413.5	42.5°	2709.5	808.5	625.5	488.6	409.3	399.2	393.5	377.6	376.2	379.0
6621.0	45°	2559.6	840.2	624.1	482.8	392.0	373.3	366.1	350.2	379.0	386.2
6706.0	47.5°	2382.3	840.2	624.1	462.6	363.2	356.0	344.5	327.2	356.0	363.2
6625.3	50°	2153.2	786.9	599.6	439.6	340.1	335.8	315.6	294.0	288.2	292.6
6436.5	52.5°	1863.5	690.3	537.6	407.9	317.1	308.4	283.9	268.1	263.7	263.7
6097.8	55°	1533.5	577.9	454.0	361.7	292.6	276.7	259.4	252.2	247.9	245.0
5623.7	57.5°	1246.7	474.2	364.6	321.4	269.5	249.3	243.6	234.9	227.7	223.4
5227.3	60°	1023.3	373.3	301.2	285.4	246.4	227.7	226.3	214.7	196.0	193.1
4900.2	62.5°	789.8	273.8	253.7	247.9	223.4	207.5	204.7	181.6	152.8	147.0
4436.1	65°	557.8	213.3	204.7	217.6	198.9	184.5	177.3	142.7	112.4	108.1
3712.6	67.5°	392.0	178.7	161.4	190.2	172.9	154.2	149.9	121.1	93.7	90.8
2807.5	70°	279.6	145.6	132.6	162.9	138.4	135.5	126.8	100.9	76.4	73.5
1389.3	72.5°	197.4	111.0	102.3	141.2	95.1	116.7	103.8	77.8	57.6	54.8
472.7	75°	145.6	79.3	72.1	82.1	69.2	87.9	73.5	51.9	36.0	34.6
213.3	77.5°	106.7	50.4	43.2	40.4	40.4	54.8	40.4	21.6	15.9	14.4
108.1	80°	74.9	23.1	20.2	17.3	15.9	13.0	5.8	2.9	1.4	1.4
37.5	82.5°	44.7	10.1	10.1	7.2	4.3	0.0	0.0	0.0	0.0	0.0
14.4	85°	10.1	4.3	4.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0
5.8	87.5°	1.4	1.4	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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