

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: P949893

Luminaire Tested: **GALN-SB4C-735-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949893  
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-SB4C-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

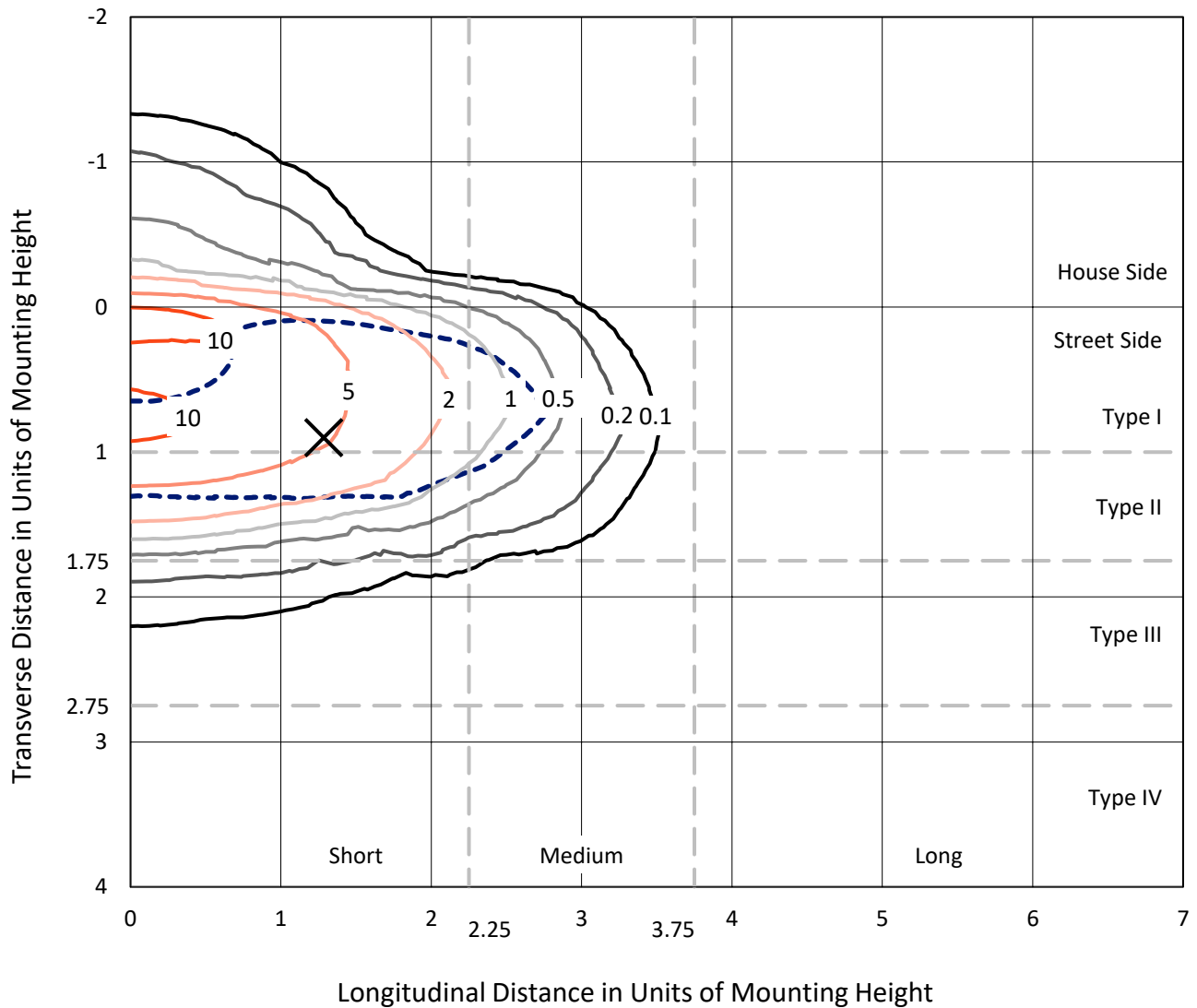
Lumens per Lamp: N/A  
Luminaire Lumens: 25591 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

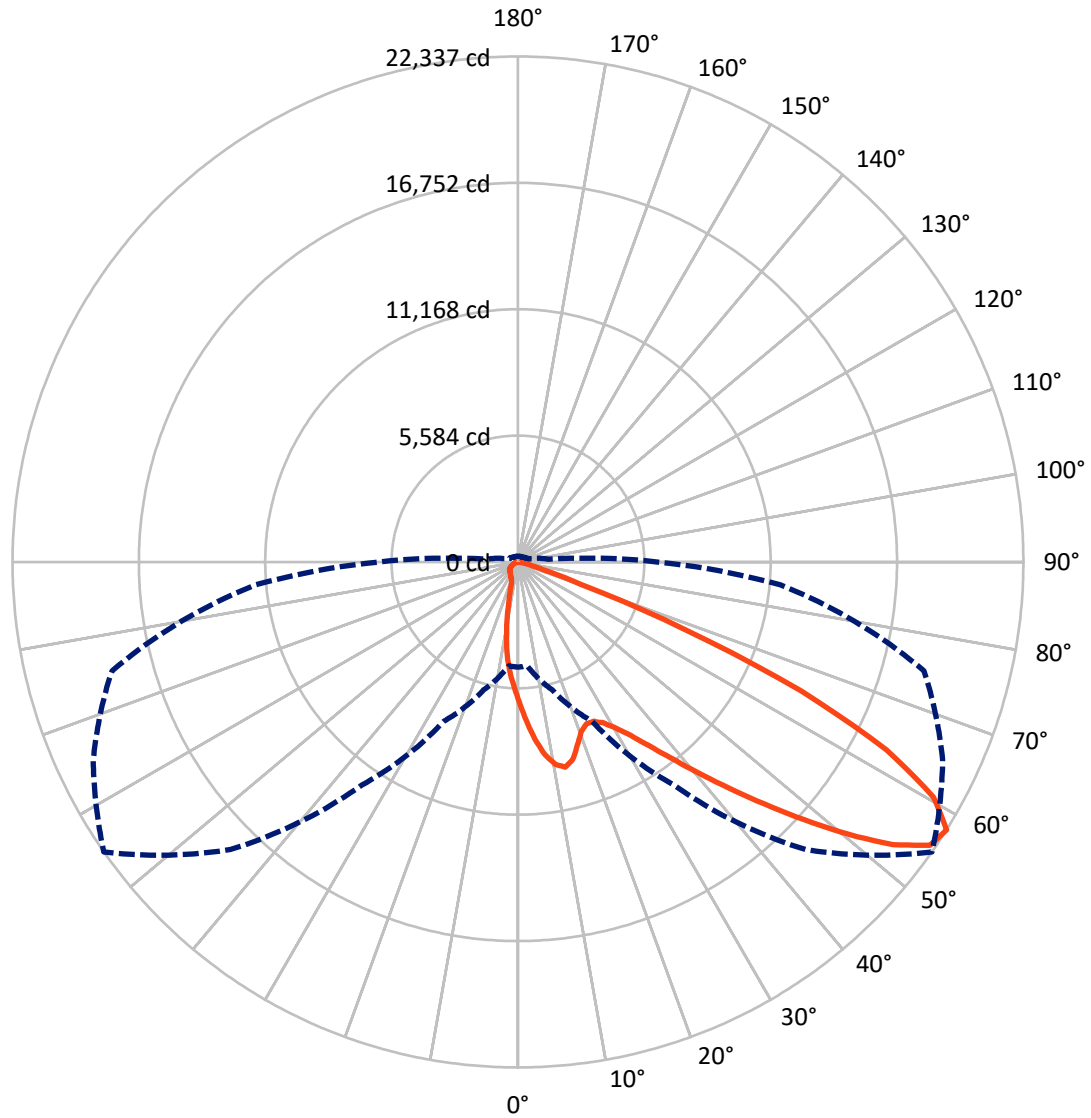
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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	1998.6	0.0	1998.6
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	23592.5	0.0	23592.5
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	25591.0	0.0	25591.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	573.8	2.2
10°-20°	1386.0	5.4
20°-30°	2217.6	8.7
30°-40°	3753.3	14.7
40°-50°	6162.2	24.1
50°-60°	6772.7	26.5
60°-70°	3884.8	15.2
70°-80°	793.8	3.1
80°-90°	46.8	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°	25591.0	100.0
0°-180°	25591.0	100.0

**Coefficient of Utilization**



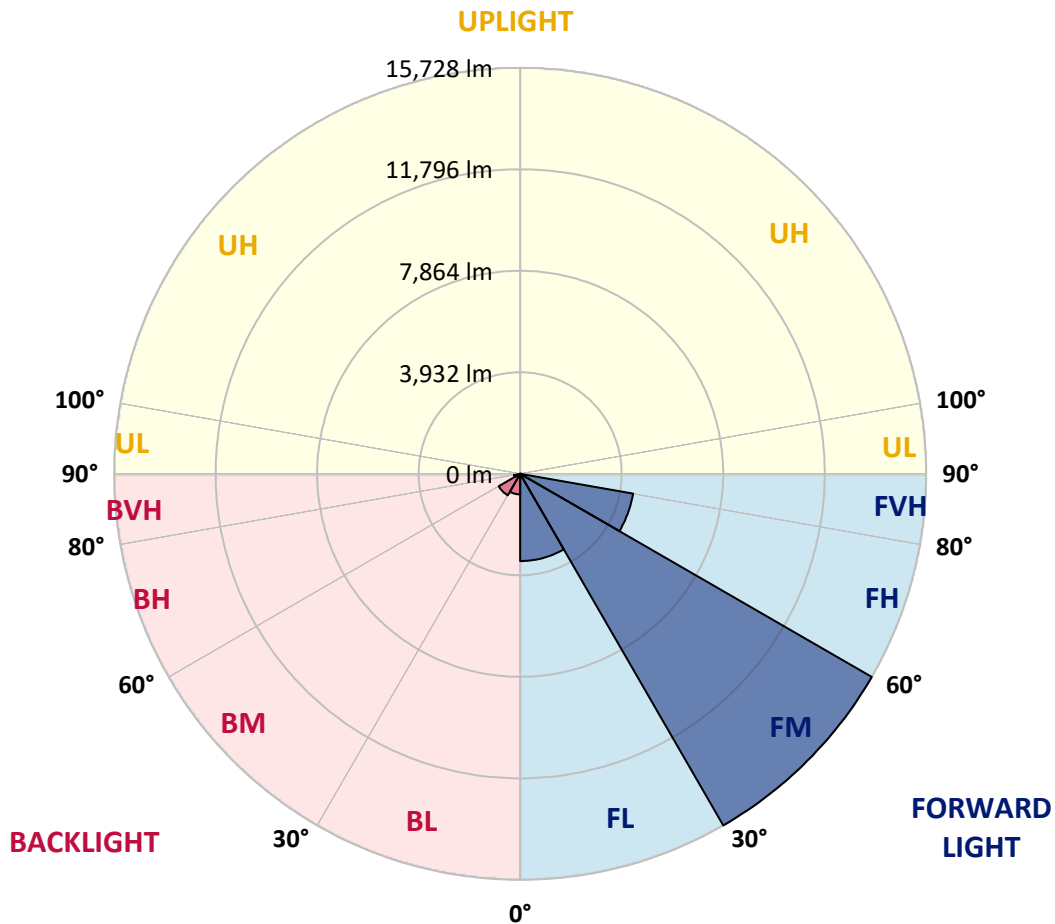
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3379.4	13.2			
FM (30°-60°)	15728.4	61.5			
FH (60°-80°)	4440.9	17.4			G2/5000
FVH (80°-90°)	43.7	0.2			G1/100
BL (0°-30°)	797.9	3.1	B2/1000		
BM (30°-60°)	959.8	3.8	B1/1000		
BH (60°-80°)	237.7	0.9	B1/500		G1/500
BVH (80°-90°)	3.2	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°	6166.8	6166.8	6166.8	6166.8	6166.8	6166.8	6166.8	6166.8	6166.8	6166.8
2.5°	7651.7	7555.4	7541.2	7522.3	7339.2	7202.0	7003.1	6785.4	6540.8	6291.5
5°	8839.9	8764.2	8750.0	8661.6	8453.3	8219.8	7866.3	7419.7	6963.7	6427.2
7.5°	9070.3	9056.1	9120.8	9117.6	9089.2	8904.6	8606.4	8074.6	7389.7	6594.4
10°	8043.0	8079.3	8271.8	8440.7	8896.7	9161.8	9097.1	8658.5	7828.4	6785.4
12.5°	7107.3	7064.7	7202.0	7392.9	7923.1	8712.1	9300.7	9146.1	8330.2	7001.6
15°	6520.3	6502.9	6580.2	6668.6	7072.6	7867.9	9064.0	9542.1	8813.1	7257.2
17.5°	6332.5	6318.3	6342.0	6364.0	6626.0	7241.4	8500.7	9785.1	9275.4	7549.1
20°	6485.6	6466.6	6463.5	6446.1	6555.0	6974.7	7991.0	9802.5	9690.5	7814.2
22.5°	6932.1	6910.0	6832.7	6763.3	6772.7	7011.0	7763.7	9628.9	10002.9	8062.0
25°	7741.6	7705.3	7544.4	7310.8	7162.5	7263.5	7798.4	9400.1	10301.1	8256.1
27.5°	8754.7	8707.4	8500.7	8153.5	7814.2	7691.1	8049.3	9242.3	10548.9	8404.4
30°	9747.3	9685.7	9482.2	9212.3	8716.8	8328.7	8502.2	9311.7	10844.0	8559.0
32.5°	10818.7	10760.3	10490.5	10156.0	9745.7	9223.4	9122.4	9651.0	11205.3	8775.2
35°	12174.2	12082.7	11699.2	11243.2	10807.7	10279.1	9961.9	10236.4	11686.6	9105.0
37.5°	13717.5	13594.4	13181.0	12551.4	11983.3	11391.5	10984.4	11041.2	12392.0	9546.9
40°	15172.4	15060.4	14678.5	14085.2	13371.9	12653.9	12220.0	12093.7	13365.6	10085.0
42.5°	16045.0	15944.1	15783.1	15532.2	14931.0	14198.8	13651.2	13378.2	14517.5	10728.8
45°	16094.0	16005.6	16221.8	16513.7	16395.4	15907.8	15240.3	14740.0	15674.2	11333.2
47.5°	15311.3	15251.3	15907.8	16927.1	17435.3	17640.4	17025.0	15988.2	16628.9	11767.1
50°	13177.8	13155.7	14506.5	16378.0	17831.3	19158.4	18907.5	17149.6	17369.0	11991.2
52.5°	11426.3	11345.8	12133.2	14620.1	17255.4	19956.9	20747.5	18288.9	17886.6	12033.8
55°	8666.3	8595.3	9583.2	11678.7	15398.1	19672.9	22093.5	19464.6	18257.4	11924.9
57.5°	4648.8	4604.6	5852.8	7773.2	12036.9	17968.6	22336.5	20708.0	18569.8	11636.1
60°	1810.0	1802.1	2269.2	3771.4	7315.6	14618.5	21110.4	21454.4	18765.5	11281.1
62.5°	1095.1	1118.8	1194.5	1693.2	3231.7	9081.4	18284.2	20605.4	18896.5	10956.0
65°	905.8	907.3	916.8	1163.0	1548.0	3799.8	13764.8	17812.4	18573.0	10376.9
67.5°	776.4	790.6	826.9	923.1	1092.0	1666.4	7924.7	13798.0	16605.2	9029.3
70°	612.3	631.2	677.0	759.0	842.6	1043.1	2928.8	9180.8	12685.5	6805.9
72.5°	516.0	514.4	538.1	617.0	669.1	733.8	1126.7	5144.3	7372.4	3249.1
75°	399.2	415.0	445.0	516.0	547.6	531.8	610.7	1879.4	2641.6	984.7
77.5°	312.4	325.1	351.9	421.3	452.9	377.1	351.9	672.2	849.0	353.5
80°	140.4	151.5	239.9	310.9	369.3	260.4	190.9	344.0	377.1	161.0
82.5°	25.2	42.6	140.4	164.1	189.4	168.8	99.4	178.3	184.6	64.7
85°	1.6	3.2	48.9	60.0	75.7	55.2	30.0	71.0	61.5	22.1
87.5°	0.0	0.0	0.0	1.6	1.6	7.9	9.5	12.6	9.5	7.9
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°
6166.8	0°	6166.8	6166.8	6166.8	6166.8	6166.8	6166.8	6166.8	6166.8	6166.8	6166.8
6181.0	2.5°	6067.4	5843.3	5625.5	5447.2	5343.1	5166.4	5049.6	5030.6	4981.7	5024.3
6196.8	5°	5950.6	5549.8	5144.3	4781.3	4483.1	4098.1	3810.9	3689.3	3583.6	3619.9
6237.8	7.5°	5895.4	5262.6	4631.4	4011.3	3373.8	2758.3	2300.7	2109.8	1964.6	1985.1
6283.6	10°	5821.2	4964.4	3975.0	3028.2	2174.5	1566.9	1251.3	1134.6	1069.9	1071.5
6351.4	12.5°	5764.4	4607.7	3212.8	2053.0	1323.9	1000.4	902.6	874.2	855.3	856.9
6454.0	15°	5736.0	4188.0	2460.1	1368.1	946.8	847.4	823.7	811.1	798.5	796.9
6567.6	17.5°	5688.7	3720.9	1800.5	998.9	828.4	793.7	773.2	759.0	743.2	740.1
6665.4	20°	5617.7	3190.7	1316.0	844.2	776.4	749.5	721.1	702.2	683.3	680.1
6727.0	22.5°	5486.7	2630.5	1011.5	781.1	738.5	708.5	673.8	651.7	632.8	629.6
6697.0	25°	5243.7	2105.0	852.1	741.7	705.4	669.1	631.2	601.2	583.9	580.7
6632.3	27.5°	4936.0	1653.7	773.2	705.4	662.8	629.6	587.0	558.6	542.8	539.7
6547.1	30°	4573.0	1273.4	727.5	664.3	612.3	583.9	546.0	522.3	512.8	512.8
6487.1	32.5°	4181.7	1017.8	708.5	623.3	568.1	536.5	506.5	497.1	493.9	492.3
6520.3	35°	3814.0	883.7	699.1	590.2	528.6	498.6	486.0	487.6	493.9	493.9
6622.8	37.5°	3487.4	841.1	694.3	566.5	493.9	467.1	475.0	489.2	482.9	482.9
6802.7	40°	3192.3	845.8	691.2	549.1	465.5	449.7	465.5	454.5	438.7	437.1
7022.1	42.5°	2966.6	885.3	684.8	534.9	448.2	437.1	430.8	413.4	411.9	415.0
7249.3	45°	2802.5	920.0	683.3	528.6	429.2	408.7	400.8	383.5	415.0	422.9
7342.4	47.5°	2608.4	920.0	683.3	506.5	397.7	389.8	377.1	358.2	389.8	397.7
7254.0	50°	2357.5	861.6	656.4	481.3	372.4	367.7	345.6	321.9	315.6	320.3
7047.3	52.5°	2040.3	755.9	588.6	446.6	347.2	337.7	310.9	293.5	288.8	288.8
6676.5	55°	1679.0	632.8	497.1	396.1	320.3	303.0	284.0	276.1	271.4	268.3
6157.3	57.5°	1365.0	519.2	399.2	351.9	295.1	273.0	266.7	257.2	249.3	244.6
5723.4	60°	1120.4	408.7	329.8	312.4	269.8	249.3	247.7	235.1	214.6	211.5
5365.2	62.5°	864.7	299.8	277.7	271.4	244.6	227.2	224.1	198.8	167.3	161.0
4857.1	65°	610.7	233.5	224.1	238.3	217.8	202.0	194.1	156.2	123.1	118.3
4064.9	67.5°	429.2	195.7	176.7	208.3	189.4	168.8	164.1	132.6	102.6	99.4
3073.9	70°	306.1	159.4	145.2	178.3	151.5	148.3	138.9	110.5	83.6	80.5
1521.2	72.5°	216.2	121.5	112.0	154.6	104.1	127.8	113.6	85.2	63.1	60.0
517.6	75°	159.4	86.8	78.9	89.9	75.7	96.3	80.5	56.8	39.4	37.9
233.5	77.5°	116.8	55.2	47.3	44.2	44.2	60.0	44.2	23.7	17.4	15.8
118.3	80°	82.1	25.2	22.1	18.9	17.4	14.2	6.3	3.2	1.6	1.6
41.0	82.5°	48.9	11.0	11.0	7.9	4.7	0.0	0.0	0.0	0.0	0.0
15.8	85°	11.0	4.7	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
6.3	87.5°	1.6	1.6	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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