

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: P956571

Luminaire Tested: **GALN-SB9A-940-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956571
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-SB9A-940-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 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: 25244 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

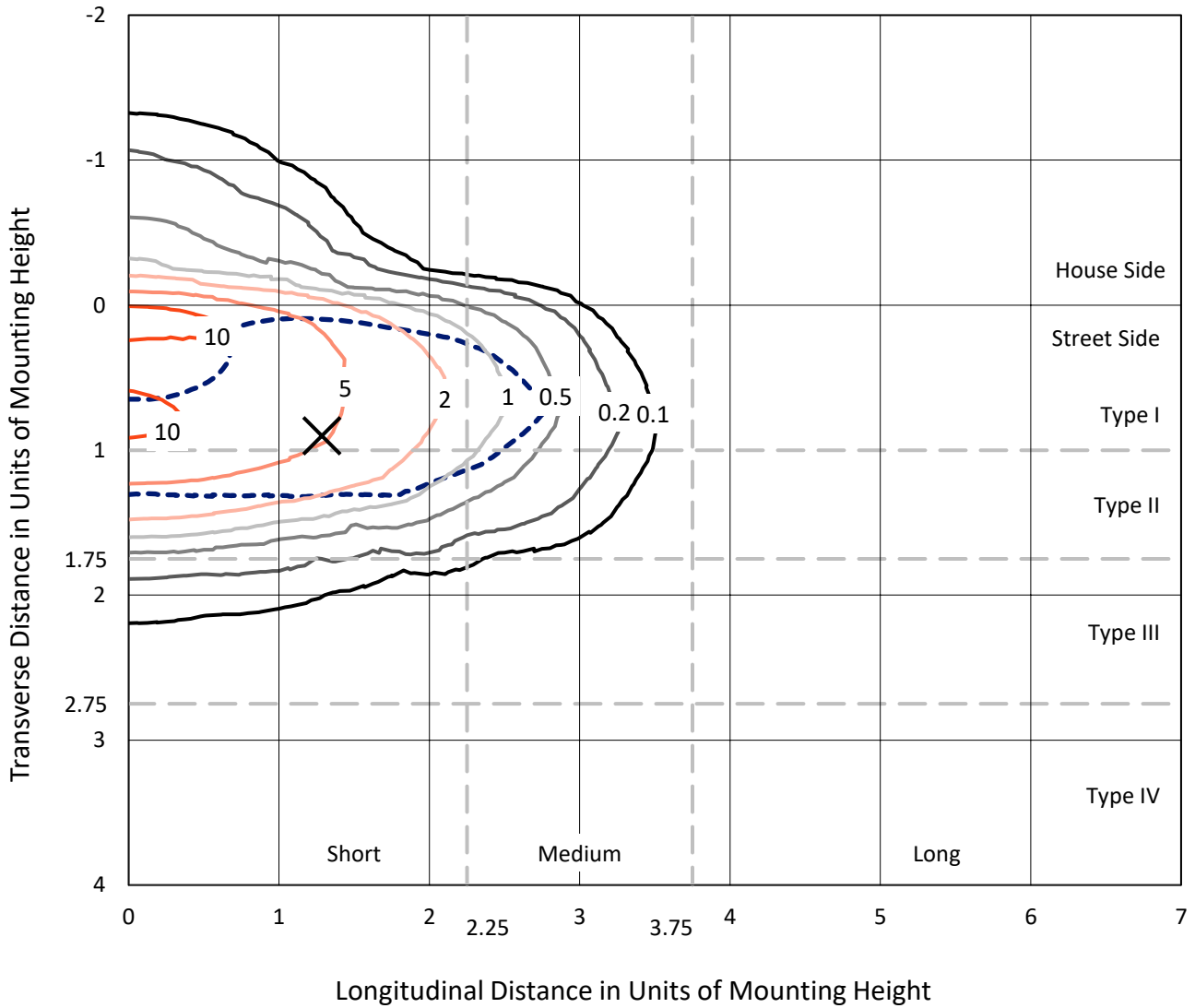
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

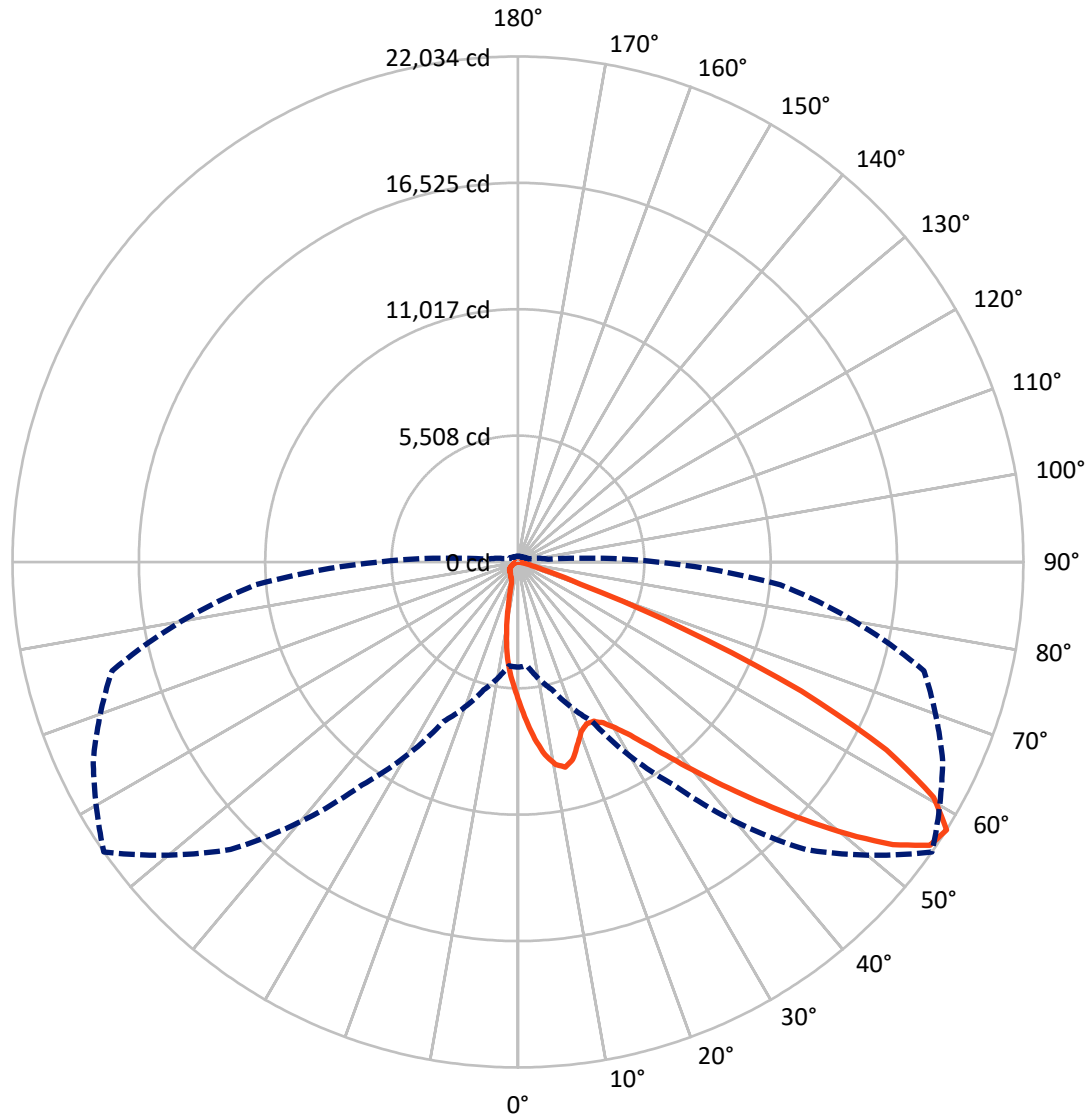
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 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
House Side	Lumens	1971.5	0.0	1971.5
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	23272.5	0.0	23272.5
	% Fixture	92.2	0.0	92.2
Total	Lumens	25244.0	0.0	25244.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.0	2.2
10°-20°	1367.2	5.4
20°-30°	2187.5	8.7
30°-40°	3702.5	14.7
40°-50°	6078.6	24.1
50°-60°	6680.9	26.5
60°-70°	3832.1	15.2
70°-80°	783.0	3.1
80°-90°	46.2	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°	25244.0	100.0
0°-180°	25244.0	100.0

Coefficient of Utilization



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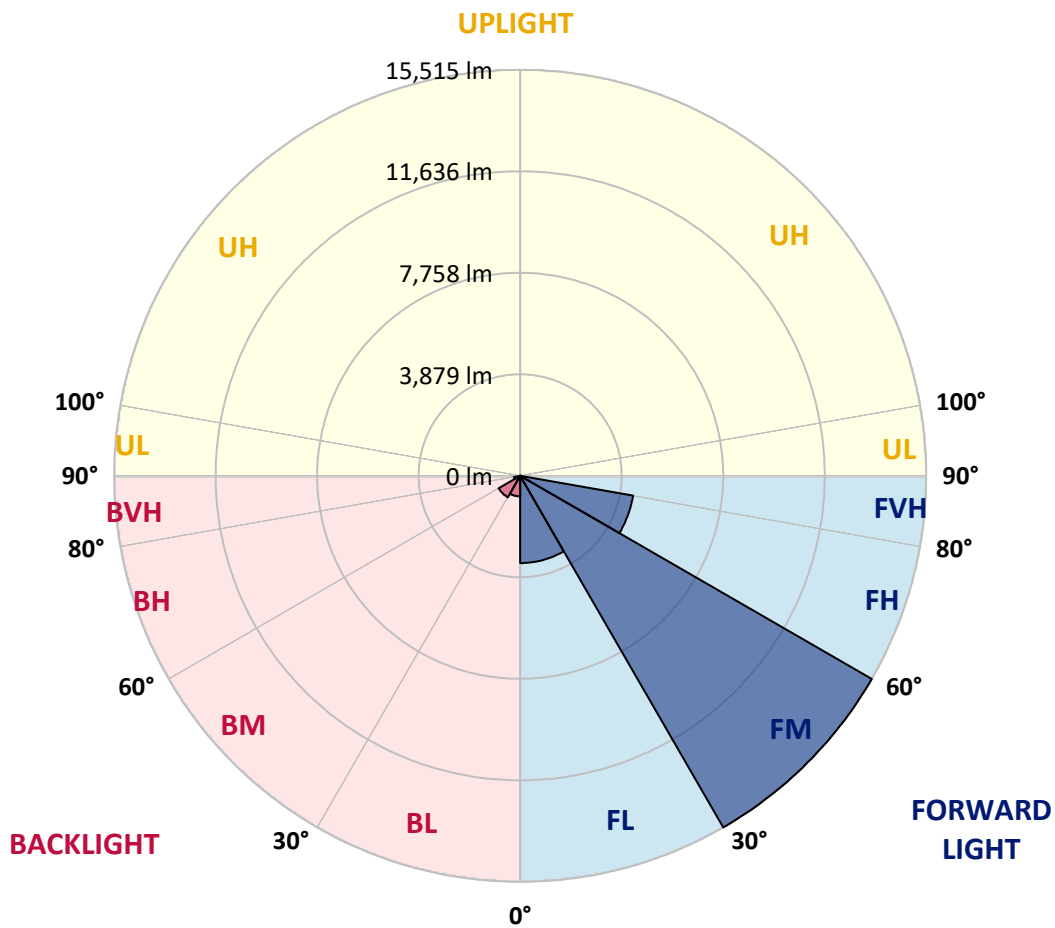
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3333.6	13.2			
FM (30°-60°)	15515.1	61.5			
FH (60°-80°)	4380.7	17.4			G2/5000
FVH (80°-90°)	43.1	0.2			G1/100
BL (0°-30°)	787.1	3.1	B2/1000		
BM (30°-60°)	946.8	3.8	B1/1000		
BH (60°-80°)	234.5	0.9	B1/500		G1/500
BVH (80°-90°)	3.1	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°	6083.2	6083.2	6083.2	6083.2	6083.2	6083.2	6083.2	6083.2	6083.2	6083.2
2.5°	7547.9	7453.0	7439.0	7420.3	7239.7	7104.3	6908.2	6693.4	6452.1	6206.2
5°	8720.1	8645.3	8631.3	8544.2	8338.7	8108.3	7759.6	7319.1	6869.3	6340.0
7.5°	8947.3	8933.3	8997.1	8994.0	8966.0	8783.9	8489.7	7965.1	7289.5	6505.0
10°	7934.0	7969.8	8159.7	8326.2	8776.1	9037.6	8973.8	8541.0	7722.3	6693.4
12.5°	7010.9	6968.9	7104.3	7292.7	7815.7	8594.0	9174.6	9022.0	8217.3	6906.6
15°	6431.9	6414.7	6491.0	6578.2	6976.7	7761.2	8941.1	9412.7	8693.6	7158.8
17.5°	6246.6	6232.6	6256.0	6277.8	6536.2	7143.2	8385.4	9652.5	9149.7	7446.8
20°	6397.6	6378.9	6375.8	6358.7	6466.1	6880.2	7882.6	9669.6	9559.1	7708.3
22.5°	6838.1	6816.3	6740.1	6671.6	6680.9	6916.0	7658.5	9498.4	9867.3	7952.7
25°	7636.7	7600.9	7442.1	7211.7	7065.4	7165.0	7692.7	9272.6	10161.5	8144.1
27.5°	8636.0	8589.3	8385.4	8042.9	7708.3	7586.9	7940.2	9117.0	10405.9	8290.4
30°	9615.1	9554.4	9353.6	9087.4	8598.6	8215.7	8386.9	9185.5	10696.9	8443.0
32.5°	10672.0	10614.4	10348.3	10018.3	9613.5	9098.3	8998.7	9520.1	11053.4	8656.2
35°	12009.1	11918.9	11540.6	11090.8	10661.1	10139.7	9826.8	10097.6	11528.2	8981.6
37.5°	13531.5	13410.1	13002.3	12381.2	11820.8	11237.1	10835.5	10891.5	12224.0	9417.4
40°	14966.7	14856.2	14479.5	13894.2	13190.6	12482.4	12054.3	11929.8	13184.4	9948.2
42.5°	15827.5	15727.9	15569.1	15321.6	14728.5	14006.3	13466.1	13196.8	14320.7	10583.3
45°	15875.7	15788.6	16001.8	16289.8	16173.0	15692.1	15033.6	14540.2	15461.7	11179.5
47.5°	15103.7	15044.5	15692.1	16697.6	17198.8	17401.2	16794.1	15771.4	16403.4	11607.5
50°	12999.1	12977.4	14309.8	16155.9	17589.5	18898.6	18651.1	16917.1	17133.5	11828.6
52.5°	11271.3	11191.9	11968.7	14421.9	17021.4	19686.3	20466.1	18041.0	17644.0	11870.6
55°	8548.8	8478.8	9453.2	11520.4	15189.3	19406.1	21793.9	19200.6	18009.8	11763.2
57.5°	4585.7	4542.2	5773.4	7667.8	11873.7	17725.0	22033.6	20427.2	18318.0	11478.3
60°	1785.4	1777.6	2238.4	3720.3	7216.4	14420.3	20824.2	21163.5	18511.1	11128.1
62.5°	1080.3	1103.6	1178.3	1670.2	3187.9	8958.2	18036.3	20326.0	18640.3	10807.5
65°	893.5	895.0	904.4	1147.2	1527.0	3748.3	13578.2	17570.9	18321.1	10236.2
67.5°	765.8	779.9	815.7	910.6	1077.2	1643.8	7817.2	13610.9	16380.1	8906.8
70°	604.0	622.6	667.8	748.7	831.2	1028.9	2889.0	9056.3	12513.5	6713.6
72.5°	509.0	507.5	530.8	608.6	660.0	723.8	1111.4	5074.5	7272.4	3205.0
75°	393.8	409.4	439.0	509.0	540.1	524.6	602.4	1853.9	2605.7	971.3
77.5°	308.2	320.7	347.1	415.6	446.7	372.0	347.1	663.1	837.4	348.7
80°	138.5	149.4	236.6	306.6	364.2	256.8	188.3	339.3	372.0	158.8
82.5°	24.9	42.0	138.5	161.9	186.8	166.6	98.1	175.9	182.1	63.8
85°	1.6	3.1	48.3	59.2	74.7	54.5	29.6	70.0	60.7	21.8
87.5°	0.0	0.0	0.0	1.6	1.6	7.8	9.3	12.5	9.3	7.8
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°
6083.2	0°	6083.2	6083.2	6083.2	6083.2	6083.2	6083.2	6083.2	6083.2	6083.2	6083.2
6097.2	2.5°	5985.1	5764.1	5549.3	5373.4	5270.6	5096.3	4981.1	4962.4	4914.2	4956.2
6112.8	5°	5869.9	5474.6	5074.5	4716.5	4422.3	4042.5	3759.2	3639.3	3535.0	3570.8
6153.2	7.5°	5815.4	5191.3	4568.6	3956.9	3328.0	2720.9	2269.5	2081.2	1938.0	1958.2
6198.4	10°	5742.3	4897.1	3921.1	2987.1	2145.0	1545.7	1234.4	1119.2	1055.4	1056.9
6265.3	12.5°	5686.2	4545.3	3169.2	2025.1	1306.0	986.9	890.4	862.4	843.7	845.2
6366.5	15°	5658.2	4131.2	2426.7	1349.6	934.0	835.9	812.5	800.1	787.6	786.1
6478.6	17.5°	5611.5	3670.5	1776.1	985.3	817.2	783.0	762.7	748.7	733.2	730.0
6575.1	20°	5541.5	3147.4	1298.2	832.8	765.8	739.4	711.4	692.7	674.0	670.9
6635.8	22.5°	5412.3	2594.8	997.8	770.5	728.5	698.9	664.7	642.9	624.2	621.1
6606.2	25°	5172.6	2076.5	840.6	731.6	695.8	660.0	622.6	593.1	575.9	572.8
6542.4	27.5°	4869.0	1631.3	762.7	695.8	653.8	621.1	579.1	551.0	535.5	532.4
6458.3	30°	4511.0	1256.2	717.6	655.3	604.0	575.9	538.6	515.2	505.9	505.9
6399.2	32.5°	4125.0	1004.0	698.9	614.9	560.4	529.2	499.7	490.3	487.2	485.7
6431.9	35°	3762.3	871.7	689.6	582.2	521.5	491.9	479.4	481.0	487.2	487.2
6533.0	37.5°	3440.1	829.7	684.9	558.8	487.2	460.8	468.5	482.5	476.3	476.3
6710.5	40°	3149.0	834.3	681.8	541.7	459.2	443.6	459.2	448.3	432.7	431.2
6926.9	42.5°	2926.4	873.3	675.6	527.7	442.1	431.2	425.0	407.8	406.3	409.4
7151.0	45°	2764.5	907.5	674.0	521.5	423.4	403.2	395.4	378.3	409.4	417.2
7242.8	47.5°	2573.1	907.5	674.0	499.7	392.3	384.5	372.0	353.3	384.5	392.3
7155.7	50°	2325.6	849.9	647.5	474.8	367.4	362.7	340.9	317.5	311.3	316.0
6951.8	52.5°	2012.7	745.6	580.6	440.5	342.5	333.1	306.6	289.5	284.9	284.9
6586.0	55°	1656.2	624.2	490.3	390.7	316.0	298.9	280.2	272.4	267.7	264.6
6073.8	57.5°	1346.5	512.1	393.8	347.1	291.1	269.3	263.1	253.7	245.9	241.3
5645.8	60°	1105.2	403.2	325.3	308.2	266.2	245.9	244.4	231.9	211.7	208.6
5292.4	62.5°	853.0	295.8	274.0	267.7	241.3	224.1	221.0	196.1	165.0	158.8
4791.2	65°	602.4	230.4	221.0	235.0	214.8	199.2	191.5	154.1	121.4	116.7
4009.8	67.5°	423.4	193.0	174.3	205.5	186.8	166.6	161.9	130.8	101.2	98.1
3032.3	70°	302.0	157.2	143.2	175.9	149.4	146.3	137.0	109.0	82.5	79.4
1500.6	72.5°	213.3	119.9	110.5	152.5	102.7	126.1	112.1	84.1	62.3	59.2
510.6	75°	157.2	85.6	77.8	88.7	74.7	95.0	79.4	56.0	38.9	37.4
230.4	77.5°	115.2	54.5	46.7	43.6	43.6	59.2	43.6	23.3	17.1	15.6
116.7	80°	80.9	24.9	21.8	18.7	17.1	14.0	6.2	3.1	1.6	1.6
40.5	82.5°	48.3	10.9	10.9	7.8	4.7	0.0	0.0	0.0	0.0	0.0
15.6	85°	10.9	4.7	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
6.2	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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