

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: P949914

Luminaire Tested: **GALN-SB4C-740-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949914
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-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 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: 27075 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

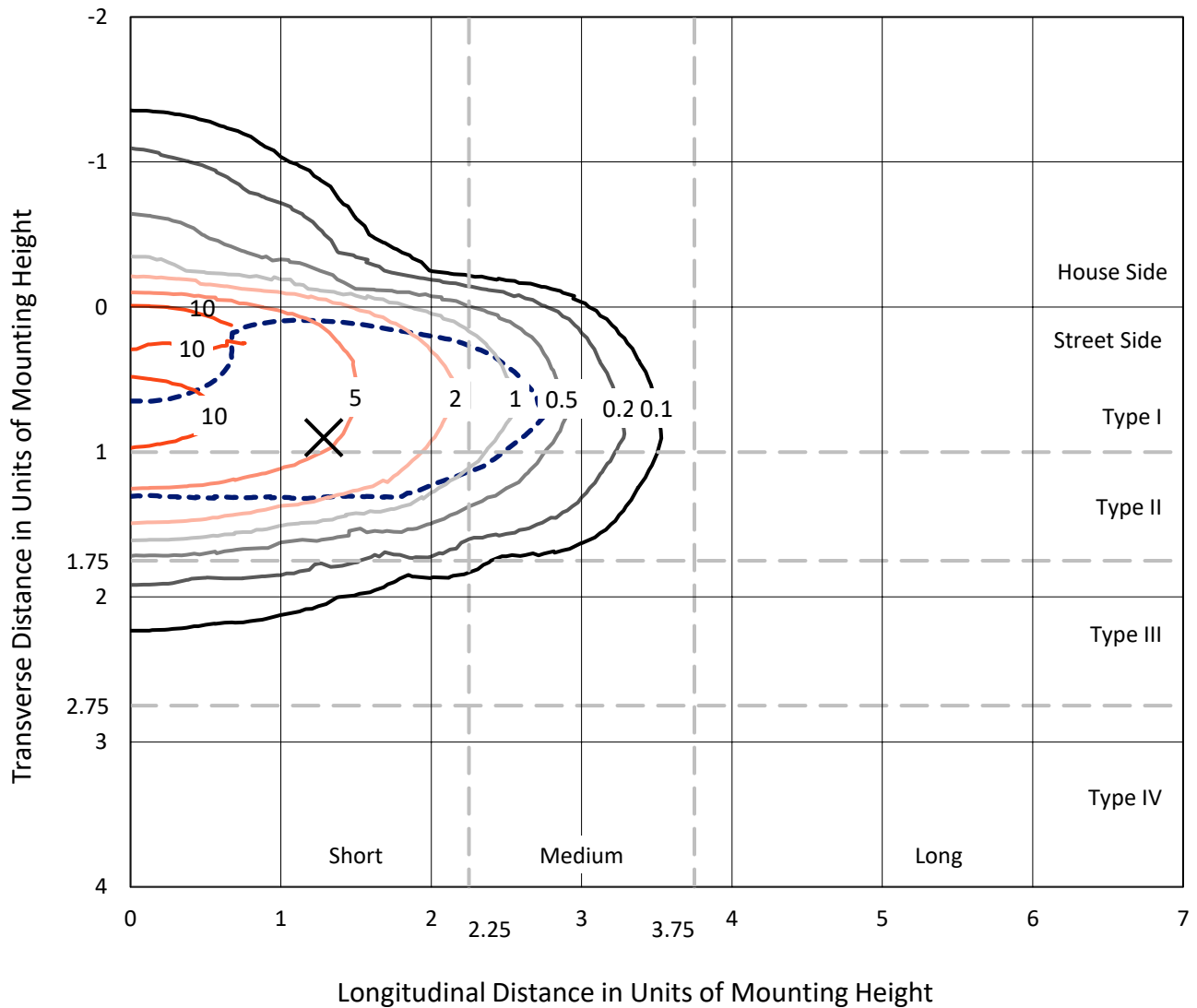
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

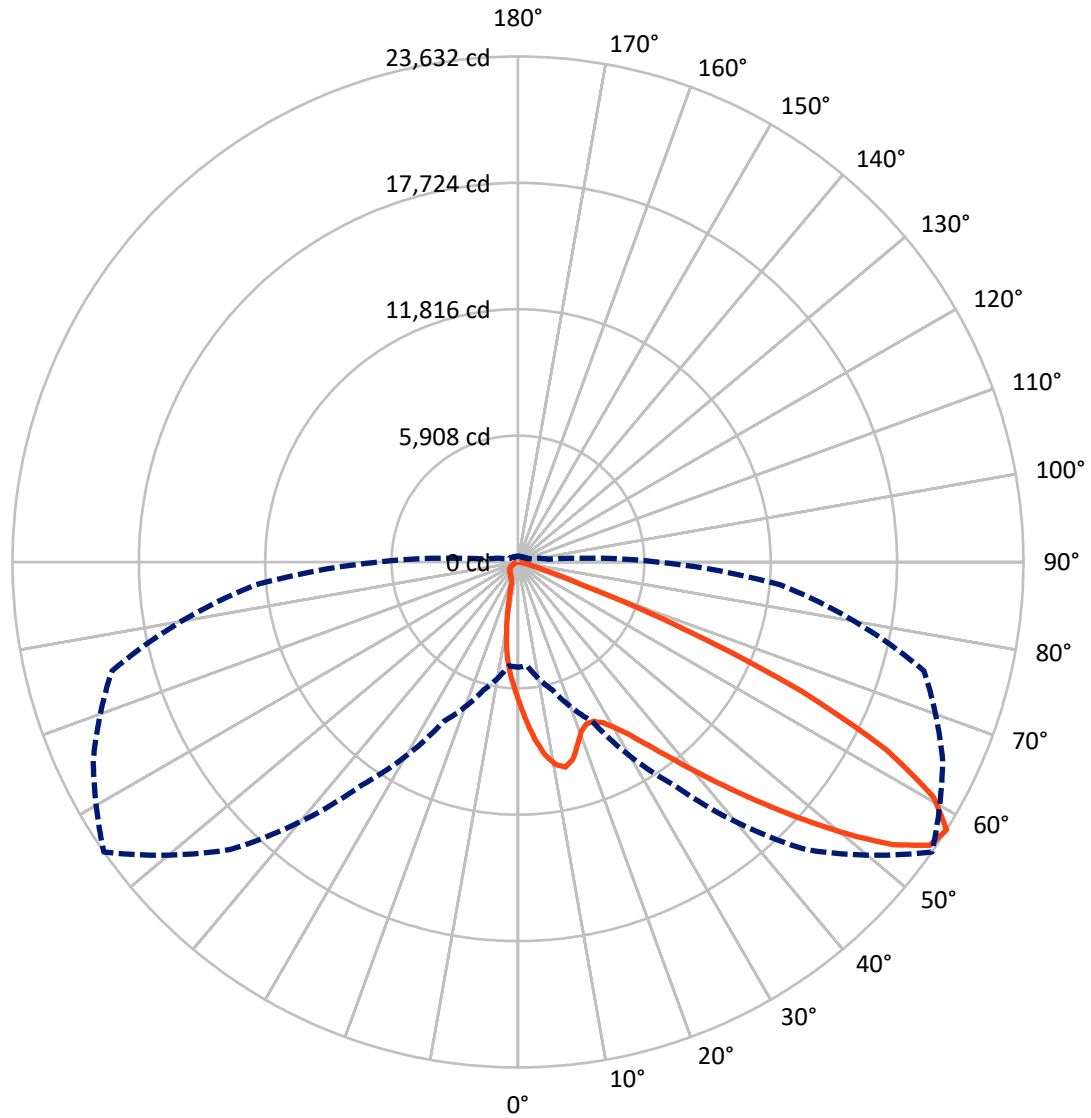
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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	2114.4	0.0	2114.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	24960.6	0.0	24960.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	27075.0	0.0	27075.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.1	2.2
10°-20°	1466.4	5.4
20°-30°	2346.2	8.7
30°-40°	3971.0	14.7
40°-50°	6519.5	24.1
50°-60°	7165.4	26.5
60°-70°	4110.1	15.2
70°-80°	839.8	3.1
80°-90°	49.5	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°	27075.0	100.0
0°-180°	27075.0	100.0

Coefficient of Utilization



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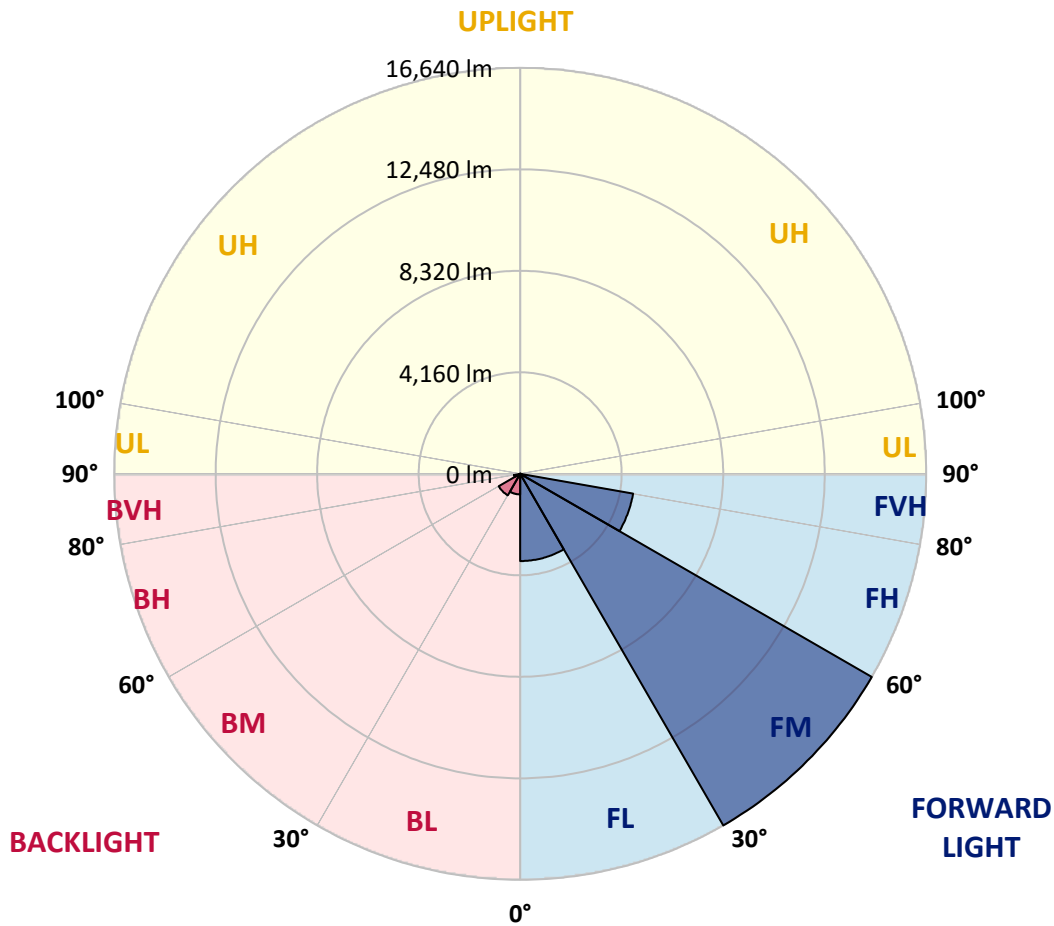
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3575.4	13.2			
FM (30°-60°)	16640.5	61.5			
FH (60°-80°)	4698.4	17.4			G2/5000
FVH (80°-90°)	46.2	0.2			G1/100
BL (0°-30°)	844.1	3.1	B2/1000		
BM (30°-60°)	1015.5	3.8	B2/2500		
BH (60°-80°)	251.5	0.9	B1/500		G1/500
BVH (80°-90°)	3.3	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°	6524.4	6524.4	6524.4	6524.4	6524.4	6524.4	6524.4	6524.4	6524.4	6524.4
2.5°	8095.4	7993.6	7978.5	7958.5	7764.8	7619.6	7409.2	7178.9	6920.1	6656.3
5°	9352.5	9272.4	9257.4	9163.9	8943.5	8696.4	8322.5	7850.0	7367.5	6799.9
7.5°	9596.3	9581.3	9649.7	9646.4	9616.3	9421.0	9105.5	8542.8	7818.3	6976.8
10°	8509.4	8547.8	8751.5	8930.2	9412.6	9693.1	9624.7	9160.5	8282.4	7178.9
12.5°	7519.4	7474.4	7619.6	7821.6	8382.6	9217.3	9840.0	9676.4	8813.3	7407.6
15°	6898.4	6880.0	6961.8	7055.3	7482.7	8324.1	9589.6	10095.5	9324.2	7678.0
17.5°	6699.7	6684.7	6709.7	6733.1	7010.2	7661.3	8993.6	10352.6	9813.3	7986.9
20°	6861.6	6841.6	6838.3	6819.9	6935.1	7379.2	8454.4	10370.9	10252.4	8267.4
22.5°	7334.1	7310.7	7228.9	7155.5	7165.5	7417.6	8213.9	10187.3	10583.0	8529.5
25°	8190.6	8152.2	7981.9	7734.8	7577.9	7684.7	8250.7	9945.2	10898.5	8734.8
27.5°	9262.4	9212.3	8993.6	8626.3	8267.4	8137.1	8516.1	9778.3	11160.6	8891.8
30°	10312.5	10247.4	10032.0	9746.5	9222.3	8811.6	8995.3	9851.7	11472.8	9055.4
32.5°	11446.1	11384.3	11098.8	10744.9	10310.8	9758.2	9651.4	10210.7	11855.1	9284.1
35°	12880.2	12783.4	12377.7	11895.2	11434.4	10875.1	10539.6	10830.0	12364.3	9633.0
37.5°	14513.0	14382.7	13945.3	13279.2	12678.2	12052.1	11621.4	11681.5	13110.6	10100.5
40°	16052.2	15933.7	15529.7	14902.0	14147.3	13387.7	12928.6	12795.1	14140.7	10669.8
42.5°	16975.5	16868.6	16698.3	16432.9	15796.8	15022.2	14442.8	14154.0	15359.4	11350.9
45°	17027.2	16933.7	17162.5	17471.3	17346.1	16830.2	16124.0	15594.8	16583.1	11990.4
47.5°	16199.2	16135.7	16830.2	17908.7	18446.3	18663.3	18012.2	16915.4	17593.2	12449.5
50°	13942.0	13918.6	15347.7	17327.7	18865.4	20269.4	20004.0	18144.1	18376.2	12686.5
52.5°	12088.9	12003.7	12836.8	15467.9	18256.0	21114.2	21950.6	19349.5	18923.8	12731.6
55°	9168.9	9093.8	10138.9	12356.0	16291.0	20813.7	23374.7	20593.3	19316.1	12616.4
57.5°	4918.3	4871.6	6192.2	8224.0	12734.9	19010.6	23631.8	21908.9	19646.7	12310.9
60°	1914.9	1906.6	2400.7	3990.1	7739.8	15466.3	22334.6	22698.5	19853.7	11935.3
62.5°	1158.6	1183.7	1263.8	1791.4	3419.1	9608.0	19344.5	21800.3	19992.3	11591.3
65°	958.3	960.0	970.0	1230.4	1637.8	4020.2	14563.1	18845.3	19650.0	10978.6
67.5°	821.4	836.4	874.8	976.7	1155.3	1763.0	8384.2	14598.1	17568.2	9552.9
70°	647.8	667.8	716.2	803.0	891.5	1103.5	3098.6	9713.2	13421.1	7200.6
72.5°	545.9	544.3	569.3	652.8	707.9	776.3	1192.0	5442.6	7799.9	3437.5
75°	422.4	439.1	470.8	545.9	579.3	562.6	646.1	1988.4	2794.7	1041.8
77.5°	330.6	343.9	372.3	445.8	479.1	399.0	372.3	711.2	898.2	374.0
80°	148.6	160.3	253.8	328.9	390.7	275.5	202.0	364.0	399.0	170.3
82.5°	26.7	45.1	148.6	173.6	200.3	178.6	105.2	188.7	195.3	68.4
85°	1.7	3.3	51.8	63.4	80.1	58.4	31.7	75.1	65.1	23.4
87.5°	0.0	0.0	0.0	1.7	1.7	8.3	10.0	13.4	10.0	8.3
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°
6524.4	0°	6524.4	6524.4	6524.4	6524.4	6524.4	6524.4	6524.4	6524.4	6524.4	6524.4
6539.4	2.5°	6419.2	6182.2	5951.8	5763.1	5652.9	5465.9	5342.4	5322.4	5270.6	5315.7
6556.1	5°	6295.7	5871.6	5442.6	5058.6	4743.1	4335.7	4031.8	3903.3	3791.4	3829.8
6599.5	7.5°	6237.3	5567.8	4900.0	4243.9	3569.4	2918.3	2434.1	2232.1	2078.5	2100.2
6648.0	10°	6158.8	5252.2	4205.5	3203.8	2300.6	1657.8	1323.9	1200.4	1131.9	1133.6
6719.7	12.5°	6098.7	4874.9	3399.1	2172.0	1400.7	1058.5	955.0	924.9	904.9	906.5
6828.3	15°	6068.6	4430.9	2602.8	1447.5	1001.7	896.5	871.5	858.1	844.8	843.1
6948.5	17.5°	6018.5	3936.7	1904.9	1056.8	876.5	839.8	818.1	803.0	786.3	783.0
7052.0	20°	5943.4	3375.7	1392.4	893.2	821.4	793.0	763.0	742.9	722.9	719.6
7117.1	22.5°	5804.9	2783.1	1070.1	826.4	781.3	749.6	712.9	689.5	669.5	666.1
7085.4	25°	5547.7	2227.1	901.5	784.7	746.3	707.9	667.8	636.1	617.7	614.4
7016.9	27.5°	5222.2	1749.6	818.1	746.3	701.2	666.1	621.1	591.0	574.3	571.0
6926.8	30°	4838.2	1347.3	769.6	702.9	647.8	617.7	577.6	552.6	542.6	542.6
6863.3	32.5°	4424.2	1076.8	749.6	659.5	601.0	567.6	535.9	525.9	522.6	520.9
6898.4	35°	4035.2	934.9	739.6	624.4	559.3	527.6	514.2	515.9	522.6	522.6
7006.9	37.5°	3689.6	889.8	734.6	599.4	522.6	494.2	502.5	517.5	510.9	510.9
7197.2	40°	3377.4	894.9	731.2	581.0	492.5	475.8	492.5	480.8	464.1	462.5
7429.3	42.5°	3138.7	936.6	724.6	566.0	474.1	462.5	455.8	437.4	435.7	439.1
7669.7	45°	2965.0	973.3	722.9	559.3	454.1	432.4	424.1	405.7	439.1	447.4
7768.2	47.5°	2759.7	973.3	722.9	535.9	420.7	412.4	399.0	379.0	412.4	420.7
7674.7	50°	2494.2	911.5	694.5	509.2	394.0	389.0	365.6	340.6	333.9	338.9
7456.0	52.5°	2158.7	799.7	622.7	472.5	367.3	357.3	328.9	310.5	305.5	305.5
7063.7	55°	1776.3	669.5	525.9	419.0	338.9	320.5	300.5	292.2	287.2	283.8
6514.4	57.5°	1444.1	549.3	422.4	372.3	312.2	288.8	282.1	272.1	263.8	258.8
6055.3	60°	1185.3	432.4	348.9	330.6	285.5	263.8	262.1	248.8	227.1	223.7
5676.3	62.5°	914.9	317.2	293.8	287.2	258.8	240.4	237.1	210.4	177.0	170.3
5138.7	65°	646.1	247.1	237.1	252.1	230.4	213.7	205.3	165.3	130.2	125.2
4300.6	67.5°	454.1	207.0	187.0	220.4	200.3	178.6	173.6	140.2	108.5	105.2
3252.2	70°	323.9	168.6	153.6	188.7	160.3	156.9	146.9	116.9	88.5	85.1
1609.4	72.5°	228.7	128.6	118.5	163.6	110.2	135.2	120.2	90.2	66.8	63.4
547.6	75°	168.6	91.8	83.5	95.2	80.1	101.8	85.1	60.1	41.7	40.1
247.1	77.5°	123.5	58.4	50.1	46.7	46.7	63.4	46.7	25.0	18.4	16.7
125.2	80°	86.8	26.7	23.4	20.0	18.4	15.0	6.7	3.3	1.7	1.7
43.4	82.5°	51.8	11.7	11.7	8.3	5.0	0.0	0.0	0.0	0.0	0.0
16.7	85°	11.7	5.0	5.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
6.7	87.5°	1.7	1.7	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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