

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: P955395

Luminaire Tested: **GALN-SB8B-840-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955395
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-SB8B-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 450mA 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: 37135 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

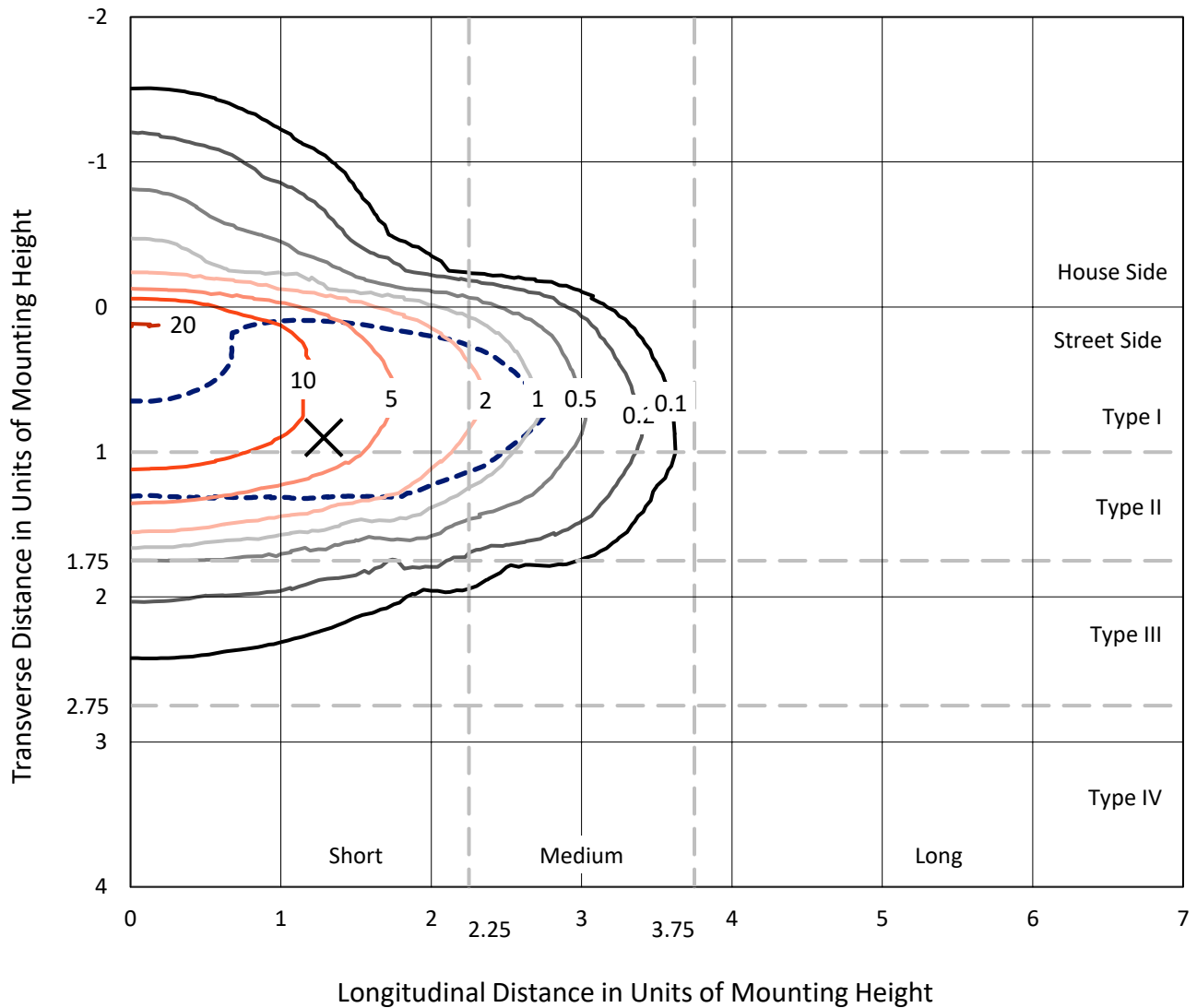
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

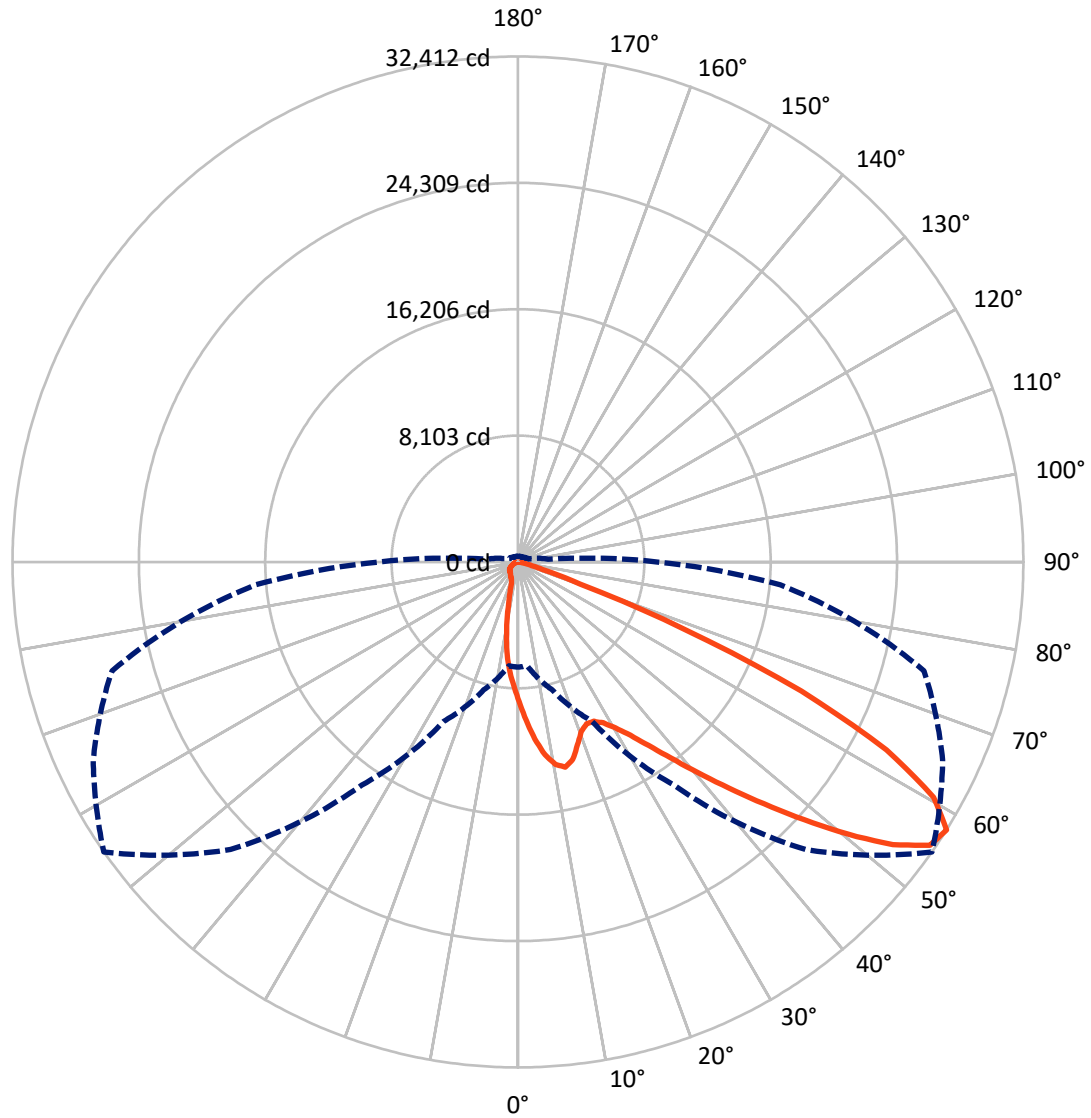
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 fc
 Type II - Short - N/A

REPORT NUMBER: P955395
CATALOG NUMBER: GALN-SB8B-840-U-AFL-HSS

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	2900.1	0.0	2900.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	34234.9	0.0	34234.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	37135.0	0.0	37135.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	832.6	2.2
10°-20°	2011.2	5.4
20°-30°	3217.9	8.7
30°-40°	5446.5	14.7
40°-50°	8941.9	24.1
50°-60°	9827.8	26.5
60°-70°	5637.3	15.2
70°-80°	1151.9	3.1
80°-90°	67.9	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°	37135.0	100.0
0°-180°	37135.0	100.0

Coefficient of Utilization



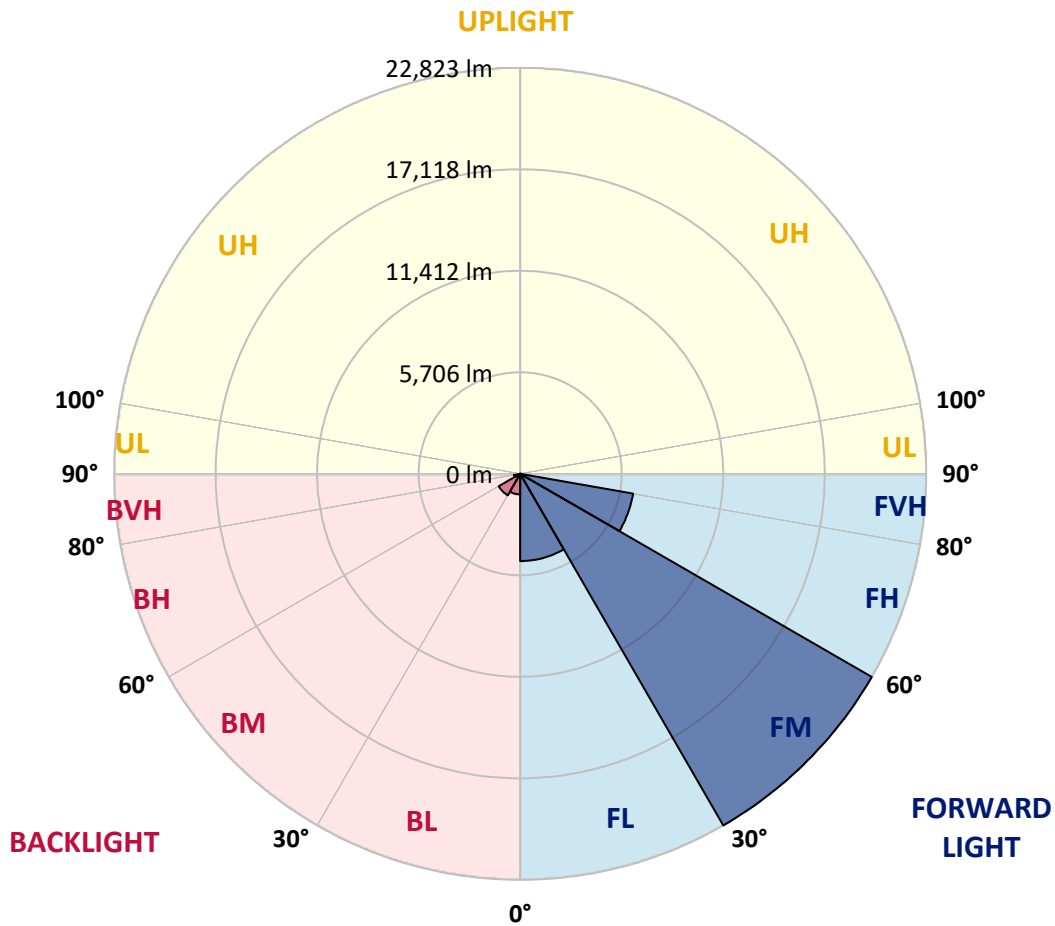
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4903.9	13.2			
FM (30°-60°)	22823.4	61.5			
FH (60°-80°)	6444.2	17.4			G3/7500
FVH (80°-90°)	63.4	0.2			G1/100
BL (0°-30°)	1157.8	3.1	B3/2500		
BM (30°-60°)	1392.8	3.8	B2/2500		
BH (60°-80°)	344.9	0.9	B1/500		G1/500
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8948.6	8948.6	8948.6	8948.6	8948.6	8948.6	8948.6	8948.6	8948.6	8948.6
2.5°	11103.3	10963.7	10943.1	10915.6	10650.0	10450.7	10162.2	9846.2	9491.3	9129.5
5°	12827.6	12717.7	12697.1	12568.8	12266.6	11927.7	11414.8	10766.7	10105.0	9326.4
7.5°	13161.9	13141.3	13235.2	13230.6	13189.4	12921.5	12488.7	11717.0	10723.2	9569.2
10°	11671.2	11723.9	12003.2	12248.3	12910.0	13294.7	13200.8	12564.2	11359.8	9846.2
12.5°	10313.4	10251.5	10450.7	10727.8	11497.2	12642.1	13496.2	13271.8	12088.0	10159.9
15°	9461.5	9436.4	9548.6	9676.8	10263.0	11417.0	13152.7	13846.5	12788.6	10530.9
17.5°	9189.1	9168.4	9202.8	9234.8	9615.0	10508.0	12335.3	14199.2	13459.6	10954.5
20°	9411.2	9383.7	9379.1	9353.9	9511.9	10121.0	11595.7	14224.4	14061.8	11339.2
22.5°	10059.2	10027.1	9914.9	9814.2	9827.9	10173.7	11265.9	13972.5	14515.2	11698.7
25°	11233.9	11181.2	10947.6	10608.7	10393.5	10540.0	11316.3	13640.5	14948.0	11980.3
27.5°	12703.9	12635.2	12335.3	11831.5	11339.2	11160.6	11680.4	13411.5	15307.5	12195.6
30°	14144.2	14054.9	13759.5	13368.0	12649.0	12085.7	12337.6	13512.2	15735.6	12420.0
32.5°	15699.0	15614.3	15222.7	14737.3	14141.9	13384.0	13237.5	14004.5	16260.0	12733.7
35°	17666.0	17533.2	16976.7	16315.0	15683.0	14915.9	14455.6	14854.1	16958.4	13212.3
37.5°	19905.4	19726.8	19126.9	18213.2	17388.9	16530.2	15939.4	16021.9	17982.0	13853.4
40°	22016.6	21854.0	21299.9	20438.9	19403.9	18362.1	17732.4	17549.2	19394.8	14634.2
42.5°	23282.9	23136.3	22902.8	22538.7	21666.3	20603.8	19809.2	19413.1	21066.4	15568.5
45°	23353.9	23225.7	23539.4	23963.0	23791.2	23083.7	22115.1	21389.2	22744.8	16445.5
47.5°	22218.1	22131.1	23083.7	24562.9	25300.2	25597.9	24704.9	23200.5	24130.1	17075.2
50°	19122.3	19090.2	21050.3	23766.1	25875.0	27800.7	27436.6	24885.8	25204.1	17400.3
52.5°	16580.6	16463.8	17606.4	21215.2	25039.2	28959.4	30106.6	26539.0	25955.1	17462.2
55°	12575.7	12472.7	13906.1	16947.0	22344.1	28547.2	32059.8	28244.9	26493.2	17304.2
57.5°	6745.8	6681.7	8492.9	11279.7	17466.8	26074.2	32412.4	30049.3	26946.6	16885.1
60°	2626.4	2615.0	3292.8	5472.7	10615.6	21212.9	30633.2	31132.4	27230.5	16369.9
62.5°	1589.1	1623.5	1733.4	2457.0	4689.6	13177.9	26532.2	29900.5	27420.6	15898.2
65°	1314.4	1316.6	1330.4	1687.6	2246.3	5513.9	19974.1	25847.5	26951.2	15057.9
67.5°	1126.6	1147.2	1199.9	1339.5	1584.6	2418.1	11499.5	20022.2	24095.8	13102.4
70°	888.5	915.9	982.3	1101.4	1222.8	1513.6	4249.9	13322.2	18407.9	9876.0
72.5°	748.8	746.5	780.8	895.3	970.9	1064.8	1634.9	7464.8	10698.0	4714.7
75°	579.3	602.2	645.7	748.8	794.6	771.7	886.2	2727.2	3833.2	1428.8
77.5°	453.4	471.7	510.6	611.4	657.2	547.3	510.6	975.5	1231.9	512.9
80°	203.8	219.8	348.1	451.1	535.8	377.8	277.1	499.2	547.3	233.6
82.5°	36.6	61.8	203.8	238.1	274.8	245.0	144.3	258.7	267.9	93.9
85°	2.3	4.6	71.0	87.0	109.9	80.1	43.5	103.0	89.3	32.1
87.5°	0.0	0.0	0.0	2.3	2.3	11.4	13.7	18.3	13.7	11.4
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°
8948.6	0°	8948.6	8948.6	8948.6	8948.6	8948.6	8948.6	8948.6	8948.6	8948.6	8948.6
8969.2	2.5°	8804.4	8479.2	8163.2	7904.5	7753.3	7496.9	7327.4	7299.9	7229.0	7290.8
8992.1	5°	8634.9	8053.3	7464.8	6938.2	6505.4	5946.7	5529.9	5353.6	5200.2	5252.8
9051.7	7.5°	8554.8	7636.6	6720.6	5820.7	4895.6	4002.6	3338.6	3061.5	2850.8	2880.6
9118.1	10°	8447.1	7203.8	5768.1	4394.2	3155.4	2273.8	1815.8	1646.4	1552.5	1554.8
9216.5	12.5°	8364.7	6686.3	4662.1	2979.1	1921.2	1451.7	1309.8	1268.6	1241.1	1243.4
9365.4	15°	8323.5	6077.2	3569.8	1985.3	1373.9	1229.6	1195.3	1177.0	1158.6	1156.4
9530.2	17.5°	8254.8	5399.4	2612.7	1449.5	1202.2	1151.8	1122.0	1101.4	1078.5	1073.9
9672.2	20°	8151.8	4630.0	1909.7	1225.1	1126.6	1087.7	1046.4	1019.0	991.5	986.9
9761.5	22.5°	7961.7	3817.1	1467.8	1133.5	1071.6	1028.1	977.8	945.7	918.2	913.6
9718.0	25°	7609.1	3054.6	1236.5	1076.2	1023.5	970.9	915.9	872.4	847.2	842.7
9624.1	27.5°	7162.6	2399.7	1122.0	1023.5	961.7	913.6	851.8	810.6	787.7	783.1
9500.5	30°	6635.9	1847.9	1055.6	964.0	888.5	847.2	792.3	757.9	744.2	744.2
9413.5	32.5°	6068.0	1476.9	1028.1	904.5	824.3	778.5	735.0	721.3	716.7	714.4
9461.5	35°	5534.5	1282.3	1014.4	856.4	767.1	723.6	705.3	707.6	716.7	716.7
9610.4	37.5°	5060.5	1220.5	1007.5	822.0	716.7	677.8	689.2	709.8	700.7	700.7
9871.4	40°	4632.3	1227.3	1002.9	796.9	675.5	652.6	675.5	659.5	636.6	634.3
10189.7	42.5°	4304.9	1284.6	993.8	776.2	650.3	634.3	625.1	599.9	597.6	602.2
10519.4	45°	4066.7	1335.0	991.5	767.1	622.8	593.1	581.6	556.4	602.2	613.7
10654.5	47.5°	3785.1	1335.0	991.5	735.0	577.0	565.6	547.3	519.8	565.6	577.0
10526.3	50°	3421.0	1250.2	952.6	698.4	540.4	533.5	501.5	467.1	458.0	464.8
10226.3	52.5°	2960.7	1096.8	854.1	648.0	503.8	490.0	451.1	425.9	419.0	419.0
9688.2	55°	2436.4	918.2	721.3	574.7	464.8	439.6	412.2	400.7	393.8	389.3
8934.9	57.5°	1980.7	753.4	579.3	510.6	428.2	396.1	387.0	373.2	361.8	354.9
8305.2	60°	1625.8	593.1	478.6	453.4	391.6	361.8	359.5	341.2	311.4	306.8
7785.4	62.5°	1254.8	435.1	403.0	393.8	354.9	329.7	325.2	288.5	242.7	233.6
7048.1	65°	886.2	338.9	325.2	345.8	316.0	293.1	281.6	226.7	178.6	171.7
5898.6	67.5°	622.8	283.9	256.5	302.3	274.8	245.0	238.1	192.3	148.8	144.3
4460.6	70°	444.2	231.3	210.7	258.7	219.8	215.2	201.5	160.3	121.4	116.8
2207.4	72.5°	313.7	176.3	162.6	224.4	151.1	185.5	164.9	123.7	91.6	87.0
751.1	75°	231.3	125.9	114.5	130.5	109.9	139.7	116.8	82.4	57.2	55.0
338.9	77.5°	169.4	80.1	68.7	64.1	64.1	87.0	64.1	34.3	25.2	22.9
171.7	80°	119.1	36.6	32.1	27.5	25.2	20.6	9.2	4.6	2.3	2.3
59.5	82.5°	71.0	16.0	16.0	11.4	6.9	0.0	0.0	0.0	0.0	0.0
22.9	85°	16.0	6.9	6.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0
9.2	87.5°	2.3	2.3	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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