

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: P954177

Luminaire Tested: **GALN-SB7C-735-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954177  
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-SB7C-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

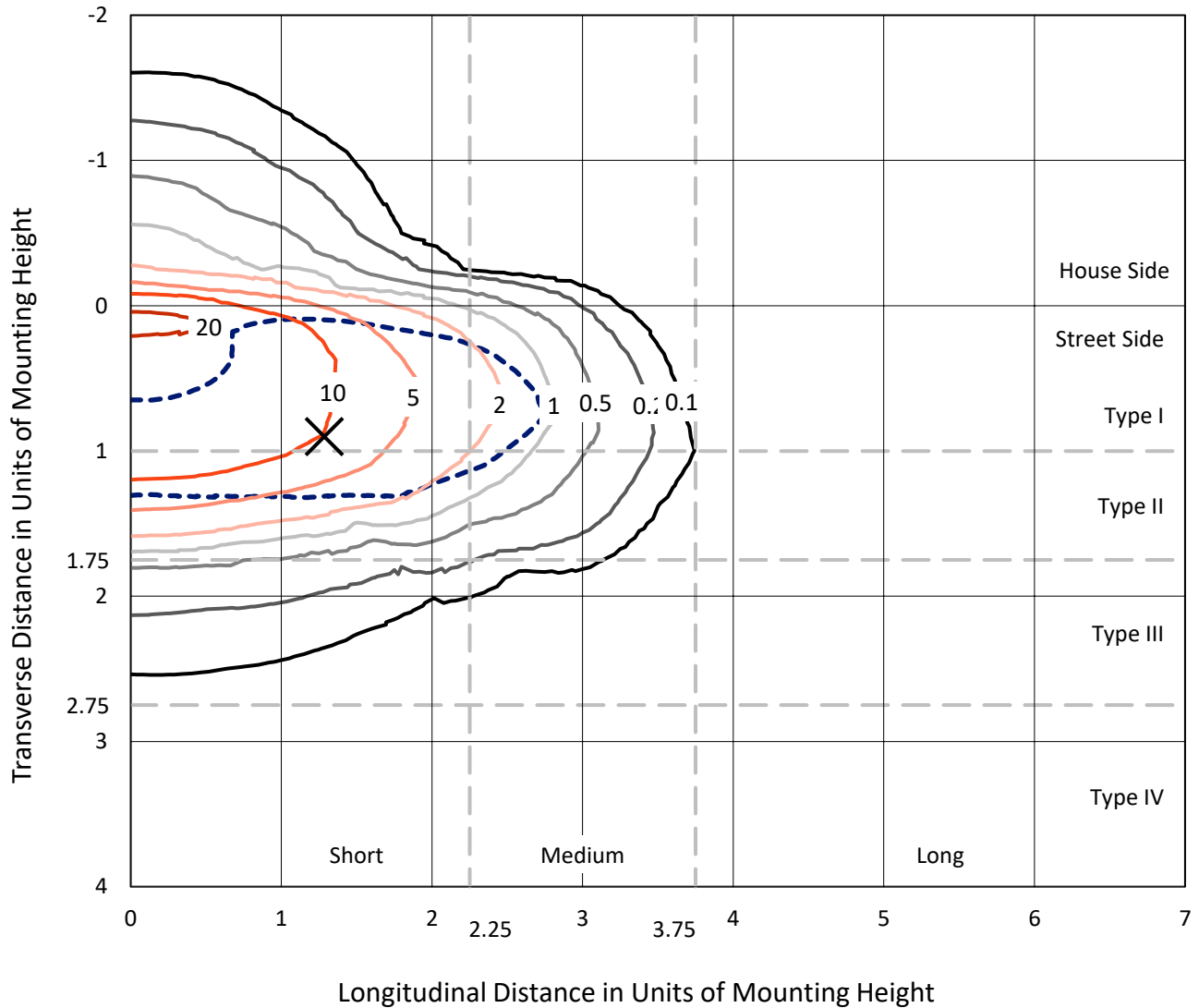
Lumens per Lamp: N/A  
Luminaire Lumens: 45411 lumens  
Efficiency: N/A  
Efficacy: 129.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): 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

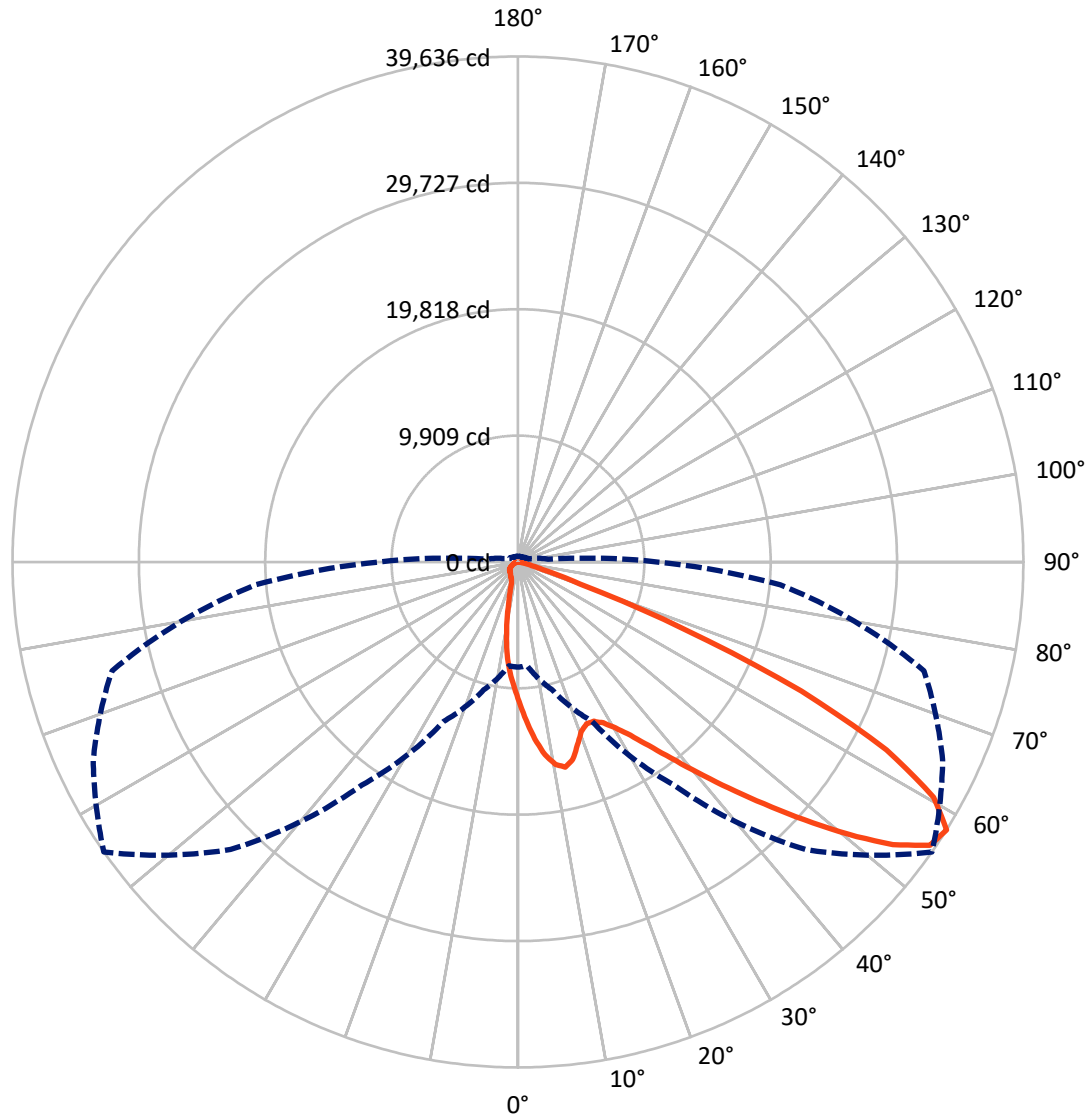
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.1 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	3546.4	0.0	3546.4
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	41864.6	0.0	41864.6
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	45411.0	0.0	45411.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1018.2	2.2
10°-20°	2459.4	5.4
20°-30°	3935.0	8.7
30°-40°	6660.3	14.7
40°-50°	10934.8	24.1
50°-60°	12018.1	26.5
60°-70°	6893.6	15.2
70°-80°	1408.6	3.1
80°-90°	83.1	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°	45411.0	100.0
0°-180°	45411.0	100.0

**Coefficient of Utilization**



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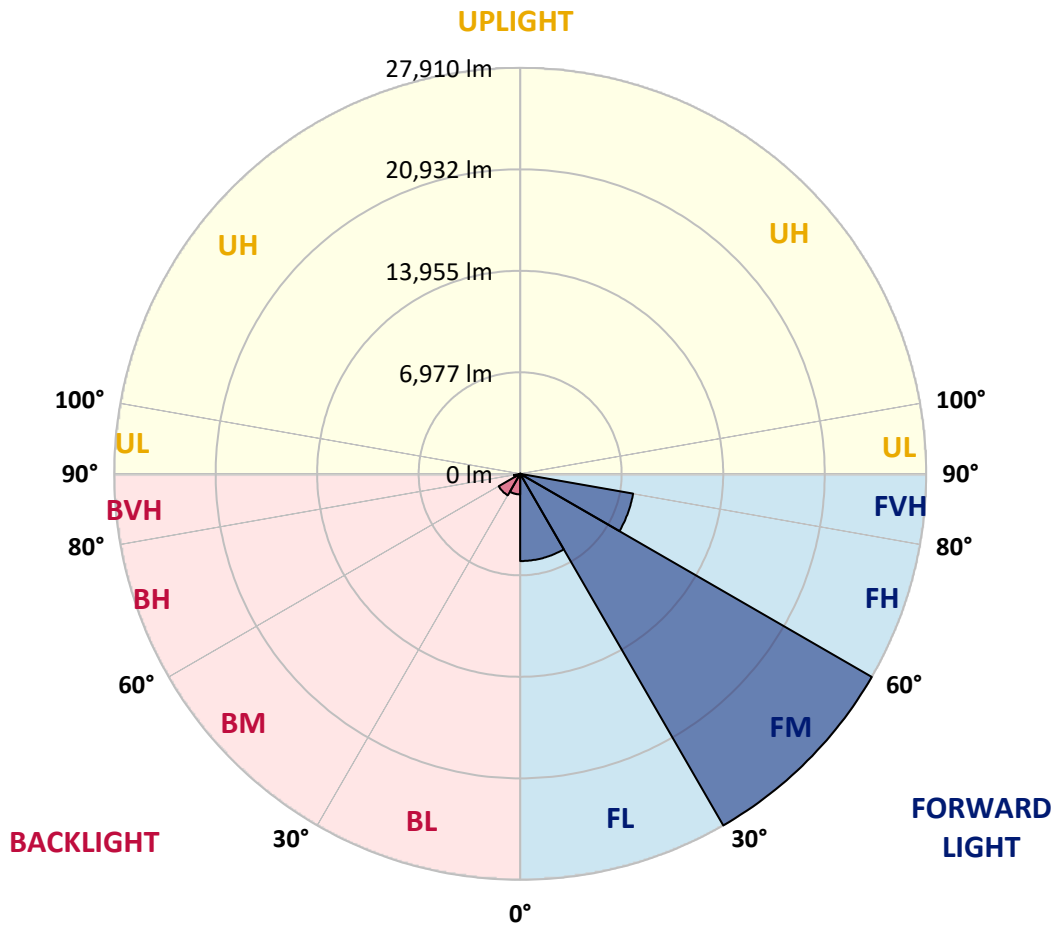
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5996.8	13.2			
FM (30°-60°)	27909.9	61.5			
FH (60°-80°)	7880.4	17.4			G4/12000
FVH (80°-90°)	77.5	0.2			G1/100
BL (0°-30°)	1415.8	3.1	B3/2500		
BM (30°-60°)	1703.2	3.8	B2/2500		
BH (60°-80°)	421.8	0.9	B1/500		G1/500
BVH (80°-90°)	5.6	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-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10942.9	10942.9	10942.9	10942.9	10942.9	10942.9	10942.9	10942.9	10942.9	10942.9
2.5°	13577.9	13407.1	13381.9	13348.2	13023.4	12779.8	12427.0	12040.6	11606.6	11164.1
5°	15686.4	15552.0	15526.8	15369.9	15000.3	14585.9	13958.7	13166.2	12357.0	11405.0
7.5°	16095.2	16070.0	16184.8	16179.2	16128.8	15801.2	15271.9	14328.3	13113.0	11701.8
10°	14272.3	14336.7	14678.3	14977.9	15787.2	16257.6	16142.8	15364.3	13891.5	12040.6
12.5°	12611.8	12536.2	12779.8	13118.6	14059.5	15459.6	16504.0	16229.6	14781.9	12424.2
15°	11570.2	11539.4	11676.6	11833.4	12550.2	13961.5	16084.0	16932.4	15638.8	12877.8
17.5°	11236.9	11211.7	11253.7	11292.9	11757.8	12849.8	15084.3	17363.6	16459.2	13395.9
20°	11508.6	11475.0	11469.4	11438.6	11631.8	12376.6	14179.9	17394.4	17195.6	13866.3
22.5°	12301.0	12261.8	12124.6	12001.4	12018.2	12441.0	13776.7	17086.4	17750.1	14305.9
25°	13737.5	13673.1	13387.5	12973.0	12709.8	12889.0	13838.3	16680.4	18279.3	14650.3
27.5°	15535.2	15451.2	15084.3	14468.3	13866.3	13647.9	14283.5	16400.4	18718.9	14913.5
30°	17296.4	17187.2	16826.0	16347.2	15468.0	14779.1	15087.1	16523.6	19242.5	15187.9
32.5°	19197.7	19094.1	18615.3	18021.7	17293.6	16366.8	16187.6	17125.6	19883.8	15571.6
35°	21603.0	21440.6	20760.2	19951.0	19178.1	18240.1	17677.3	18164.5	20737.8	16156.8
37.5°	24341.6	24123.2	23389.5	22272.3	21264.2	20214.2	19491.7	19592.6	21989.5	16940.8
40°	26923.3	26724.5	26046.9	24994.0	23728.4	22454.3	21684.3	21460.2	23717.2	17895.7
42.5°	28471.8	28292.6	28007.0	27561.7	26494.9	25195.6	24224.0	23739.6	25761.3	19038.1
45°	28558.6	28401.8	28785.4	29303.4	29093.4	28228.2	27043.7	26156.1	27813.8	20110.6
47.5°	27169.7	27063.3	28228.2	30037.1	30938.7	31302.7	30210.7	28371.0	29507.8	20880.6
50°	23383.9	23344.7	25741.7	29062.6	31641.5	33996.5	33551.2	30431.9	30821.1	21278.2
52.5°	20275.8	20133.0	21530.2	25943.3	30619.5	35413.3	36816.2	32453.6	31739.5	21353.8
55°	15378.3	15252.3	17005.2	20723.8	27323.7	34909.3	39204.7	34539.7	32397.6	21160.6
57.5°	8249.2	8170.8	10385.7	13793.5	21359.4	31885.1	39635.9	36746.2	32952.0	20648.2
60°	3211.8	3197.8	4026.6	6692.3	12981.4	25940.5	37460.2	38070.7	33299.2	20018.2
62.5°	1943.3	1985.3	2119.7	3004.5	5734.7	16114.8	32445.2	36564.2	33531.6	19441.3
65°	1607.3	1610.1	1626.9	2063.7	2746.9	6742.7	24425.6	31607.9	32957.6	18413.7
67.5°	1377.7	1402.9	1467.3	1638.1	1937.7	2956.9	14062.3	24484.4	29465.8	16022.4
70°	1086.5	1120.1	1201.3	1346.9	1495.3	1850.9	5197.1	16291.2	22510.3	12077.0
72.5°	915.6	912.8	954.8	1094.9	1187.3	1302.1	1999.3	9128.4	13082.2	5765.5
75°	708.4	736.4	789.6	915.6	971.6	943.6	1083.7	3335.0	4687.4	1747.3
77.5°	554.4	576.8	624.4	747.6	803.6	669.2	624.4	1192.9	1506.5	627.2
80°	249.2	268.8	425.6	551.6	655.2	462.0	338.8	610.4	669.2	285.6
82.5°	44.8	75.6	249.2	291.2	336.0	299.6	176.4	316.4	327.6	114.8
85°	2.8	5.6	86.8	106.4	134.4	98.0	53.2	126.0	109.2	39.2
87.5°	0.0	0.0	0.0	2.8	2.8	14.0	16.8	22.4	16.8	14.0
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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**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
10942.9	0°	10942.9	10942.9	10942.9	10942.9	10942.9	10942.9	10942.9	10942.9	10942.9	10942.9
10968.1	2.5°	10766.5	10368.9	9982.5	9666.1	9481.3	9167.6	8960.4	8926.8	8840.0	8915.6
10996.1	5°	10559.3	9848.1	9128.4	8484.4	7955.2	7272.0	6762.3	6546.7	6359.1	6423.5
11068.9	7.5°	10461.3	9338.5	8218.4	7117.9	5986.7	4894.6	4082.6	3743.8	3486.2	3522.6
11150.1	10°	10329.7	8809.2	7053.5	5373.5	3858.6	2780.5	2220.5	2013.3	1898.5	1901.3
11270.5	12.5°	10228.9	8176.4	5701.1	3643.0	2349.3	1775.3	1601.7	1551.3	1517.7	1520.5
11452.6	15°	10178.5	7431.6	4365.4	2427.7	1680.1	1503.7	1461.7	1439.3	1416.9	1414.1
11654.2	17.5°	10094.5	6602.7	3195.0	1772.5	1470.1	1408.5	1372.1	1346.9	1318.9	1313.3
11827.8	20°	9968.5	5661.9	2335.3	1498.1	1377.7	1330.1	1279.7	1246.1	1212.5	1206.9
11937.0	22.5°	9736.1	4667.8	1794.9	1386.1	1310.5	1257.3	1195.7	1156.5	1122.9	1117.3
11883.8	25°	9304.9	3735.4	1512.1	1316.1	1251.7	1187.3	1120.1	1066.9	1036.1	1030.5
11769.0	27.5°	8758.8	2934.5	1372.1	1251.7	1176.1	1117.3	1041.7	991.2	963.2	957.6
11617.8	30°	8114.8	2259.7	1290.9	1178.9	1086.5	1036.1	968.8	926.8	910.0	910.0
11511.4	32.5°	7420.4	1806.1	1257.3	1106.1	1008.0	952.0	898.8	882.0	876.4	873.6
11570.2	35°	6767.9	1568.1	1240.5	1047.3	938.0	884.8	862.4	865.2	876.4	876.4
11752.2	37.5°	6188.3	1492.5	1232.1	1005.2	876.4	828.8	842.8	868.0	856.8	856.8
12071.4	40°	5664.7	1500.9	1226.5	974.4	826.0	798.0	826.0	806.4	778.4	775.6
12460.6	42.5°	5264.3	1570.9	1215.3	949.2	795.2	775.6	764.4	733.6	730.8	736.4
12863.8	45°	4973.0	1632.5	1212.5	938.0	761.6	725.2	711.2	680.4	736.4	750.4
13029.0	47.5°	4628.6	1632.5	1212.5	898.8	705.6	691.6	669.2	635.6	691.6	705.6
12872.2	50°	4183.4	1528.9	1164.9	854.0	660.8	652.4	613.2	571.2	560.0	568.4
12505.4	52.5°	3620.6	1341.3	1044.5	792.4	616.0	599.2	551.6	520.8	512.4	512.4
11847.4	55°	2979.3	1122.9	882.0	702.8	568.4	537.6	504.0	490.0	481.6	476.0
10926.1	57.5°	2422.1	921.2	708.4	624.4	523.6	484.4	473.2	456.4	442.4	434.0
10156.1	60°	1988.1	725.2	585.2	554.4	478.8	442.4	439.6	417.2	380.8	375.2
9520.5	62.5°	1534.5	532.0	492.8	481.6	434.0	403.2	397.6	352.8	296.8	285.6
8618.8	65°	1083.7	414.4	397.6	422.8	386.4	358.4	344.4	277.2	218.4	210.0
7213.2	67.5°	761.6	347.2	313.6	369.6	336.0	299.6	291.2	235.2	182.0	176.4
5454.7	70°	543.2	282.8	257.6	316.4	268.8	263.2	246.4	196.0	148.4	142.8
2699.3	72.5°	383.6	215.6	198.8	274.4	184.8	226.8	201.6	151.2	112.0	106.4
918.4	75°	282.8	154.0	140.0	159.6	134.4	170.8	142.8	100.8	70.0	67.2
414.4	77.5°	207.2	98.0	84.0	78.4	78.4	106.4	78.4	42.0	30.8	28.0
210.0	80°	145.6	44.8	39.2	33.6	30.8	25.2	11.2	5.6	2.8	2.8
72.8	82.5°	86.8	19.6	19.6	14.0	8.4	0.0	0.0	0.0	0.0	0.0
28.0	85°	19.6	8.4	8.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0
11.2	87.5°	2.8	2.8	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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