

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: P953925

Luminaire Tested: **GALN-SB7B-830-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953925  
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-SB7B-830-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

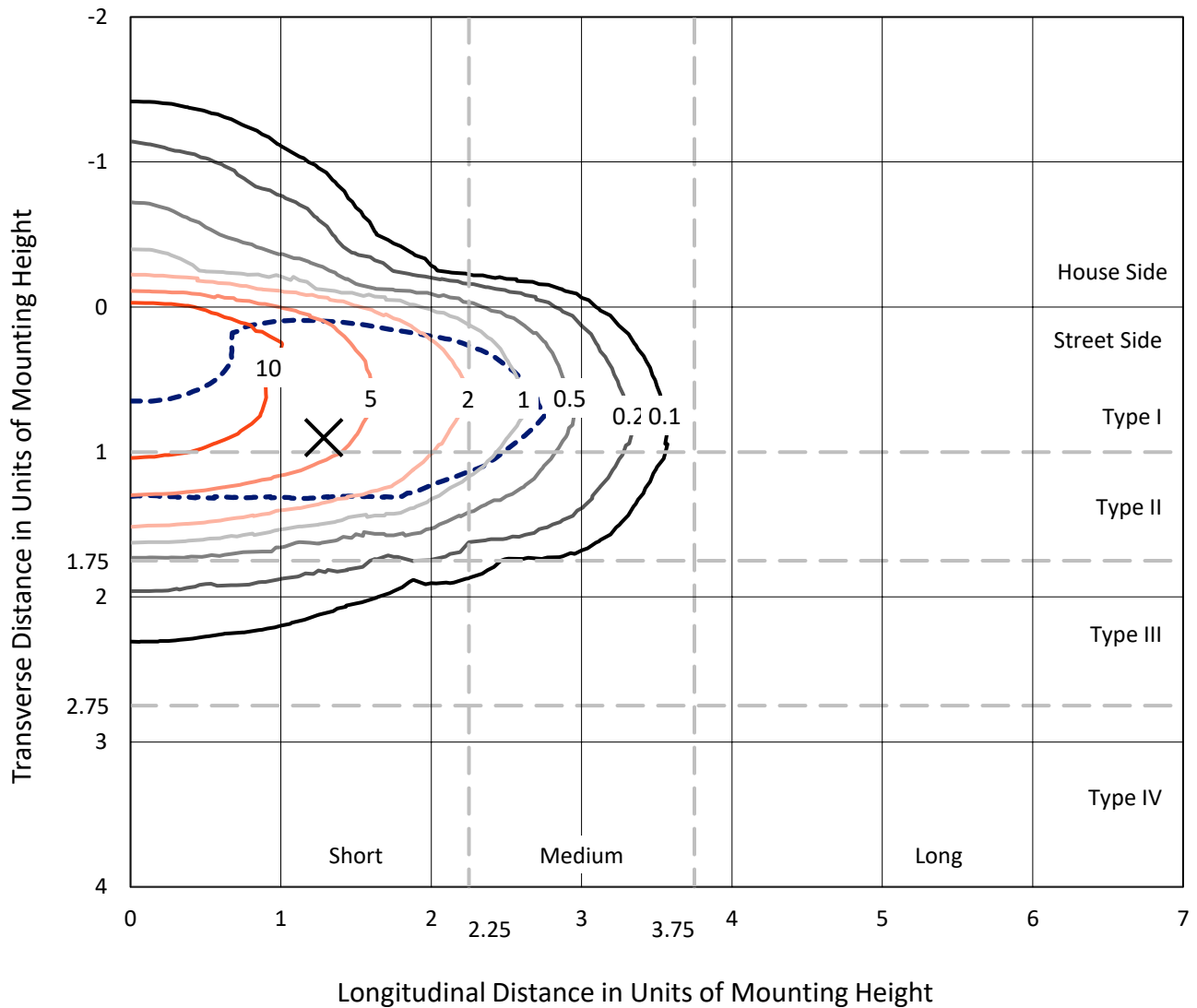
Lumens per Lamp: N/A  
Luminaire Lumens: 30680 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

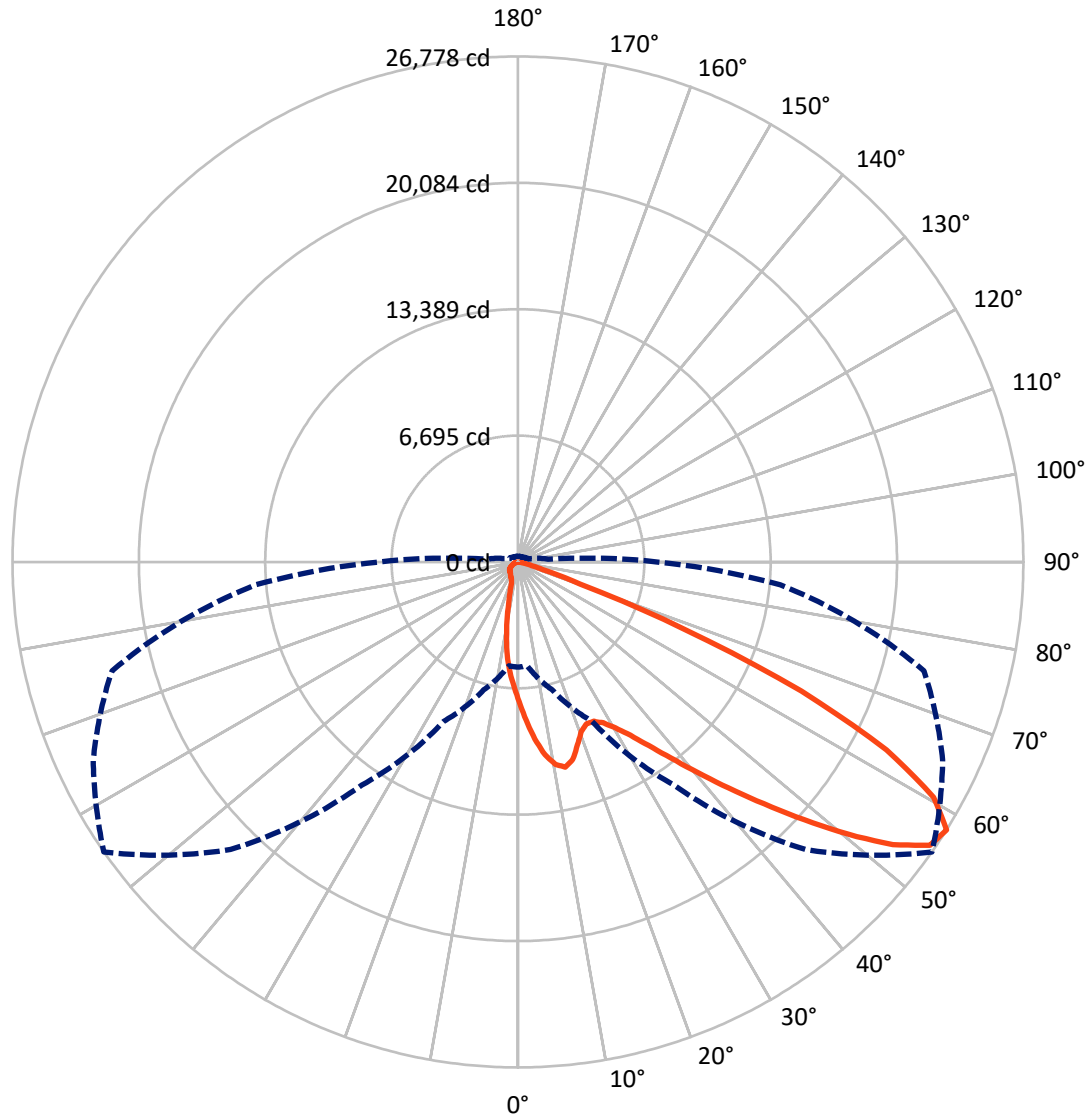
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 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
<b>House Side</b>	Lumens	2396.0	0.0	2396.0
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	28284.0	0.0	28284.0
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	30680.0	0.0	30680.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	687.9	2.2
10°-20°	1661.6	5.4
20°-30°	2658.5	8.7
30°-40°	4499.7	14.7
40°-50°	7387.6	24.1
50°-60°	8119.5	26.5
60°-70°	4657.4	15.2
70°-80°	951.6	3.1
80°-90°	56.1	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°	30680.0	100.0
0°-180°	30680.0	100.0

**Coefficient of Utilization**



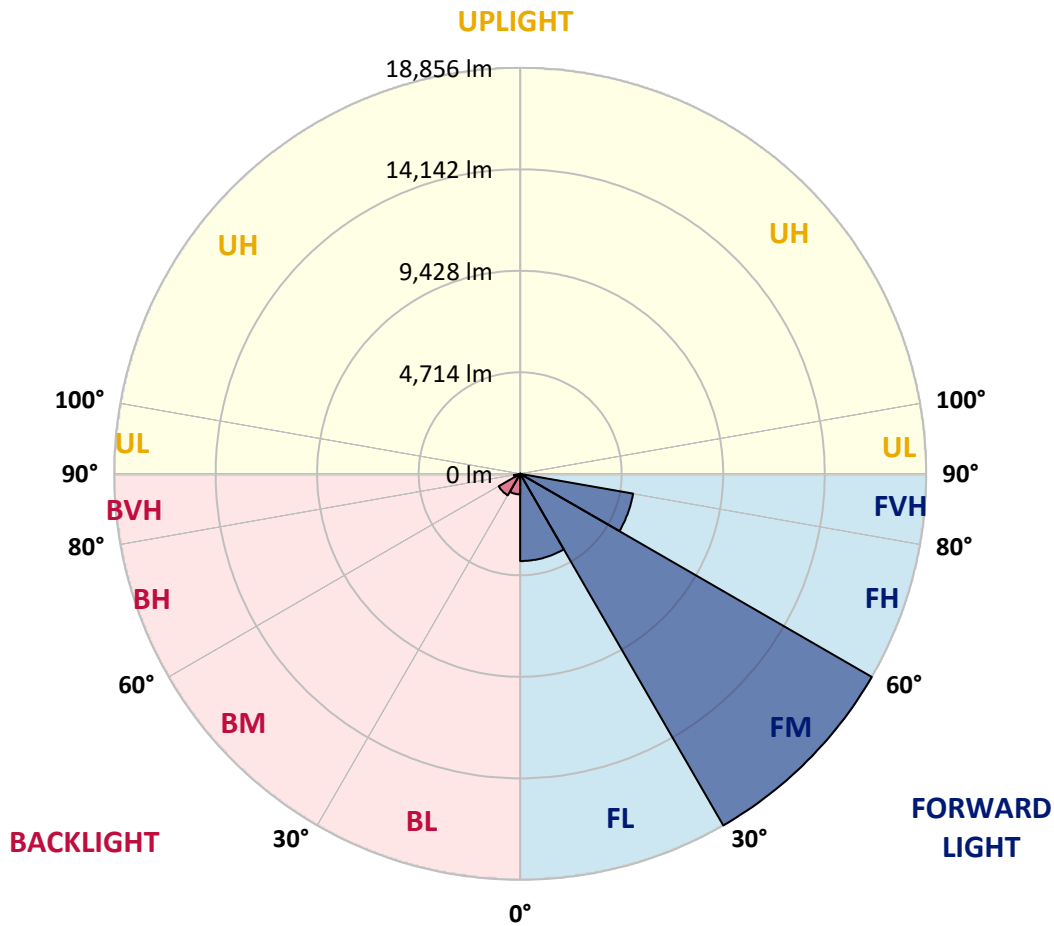
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4051.5	13.2			
FM (30°-60°)	18856.2	61.5			
FH (60°-80°)	5324.0	17.4			G3/7500
FVH (80°-90°)	52.4	0.2			G1/100
BL (0°-30°)	956.5	3.1	B2/1000		
BM (30°-60°)	1150.7	3.8	B2/2500		
BH (60°-80°)	285.0	0.9	B1/500		G1/500
BVH (80°-90°)	3.8	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-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7393.1	7393.1	7393.1	7393.1	7393.1	7393.1	7393.1	7393.1	7393.1	7393.1
2.5°	9173.3	9057.9	9040.9	9018.2	8798.7	8634.1	8395.8	8134.7	7841.5	7542.6
5°	10597.8	10507.0	10490.0	10384.0	10134.3	9854.3	9430.6	8895.2	8348.5	7705.3
7.5°	10874.0	10857.0	10934.6	10930.8	10896.7	10675.4	10317.8	9680.3	8859.3	7905.8
10°	9642.5	9686.0	9916.8	10119.2	10665.9	10983.7	10906.2	10380.3	9385.2	8134.7
12.5°	8520.6	8469.6	8634.1	8863.0	9498.7	10444.6	11150.2	10964.8	9986.8	8393.9
15°	7816.9	7796.1	7888.8	7994.7	8479.0	9432.5	10866.5	11439.7	10565.7	8700.4
17.5°	7591.8	7574.7	7603.1	7629.6	7943.6	8681.4	10191.1	11731.0	11120.0	9050.3
20°	7775.3	7752.6	7748.8	7728.0	7858.5	8361.7	9580.0	11751.8	11617.5	9368.2
22.5°	8310.6	8284.2	8191.5	8108.2	8119.6	8405.2	9307.6	11543.7	11992.1	9665.2
25°	9281.1	9237.6	9044.7	8764.7	8586.8	8707.9	9349.2	11269.4	12349.6	9897.9
27.5°	10495.7	10438.9	10191.1	9774.9	9368.2	9220.6	9650.0	11080.2	12646.6	10075.7
30°	11685.6	11611.8	11367.8	11044.3	10450.3	9984.9	10193.0	11163.5	13000.4	10261.1
32.5°	12970.1	12900.1	12576.6	12175.6	11683.7	11057.5	10936.5	11570.2	13433.6	10520.3
35°	14595.2	14485.5	14025.7	13479.0	12956.9	12323.1	11942.9	12272.1	14010.6	10915.6
37.5°	16445.3	16297.8	15802.1	15047.3	14366.3	13656.8	13168.8	13236.9	14856.2	11445.3
40°	18189.6	18055.3	17597.5	16886.1	16031.0	15170.3	14650.0	14498.7	16023.5	12090.4
42.5°	19235.7	19114.7	18921.7	18620.9	17900.1	17022.3	16365.9	16038.6	17404.5	12862.3
45°	19294.4	19188.4	19447.6	19797.6	19655.7	19071.2	18270.9	17671.2	18791.2	13586.9
47.5°	18356.1	18284.2	19071.2	20293.3	20902.4	21148.3	20410.5	19167.6	19935.7	14107.1
50°	15798.4	15771.9	17391.2	19634.9	21377.3	22968.2	22667.5	20560.0	20823.0	14375.7
52.5°	13698.5	13602.0	14546.0	17527.5	20686.7	23925.5	24873.3	21925.9	21443.5	14426.8
55°	10389.7	10304.6	11488.9	14001.2	18460.1	23585.0	26487.0	23335.3	21888.0	14296.3
57.5°	5573.2	5520.2	7016.7	9319.0	14430.6	21541.8	26778.3	24826.0	22262.6	13950.1
60°	2169.9	2160.4	2720.4	4521.4	8770.3	17525.6	25308.4	25720.8	22497.2	13524.4
62.5°	1312.9	1341.3	1432.1	2029.9	3874.4	10887.3	21920.2	24703.0	22654.2	13134.7
65°	1085.9	1087.8	1099.1	1394.3	1855.8	4555.4	16502.1	21354.6	22266.4	12440.4
67.5°	930.8	947.8	991.3	1106.7	1309.1	1997.7	9500.6	16541.8	19907.3	10824.8
70°	734.0	756.7	811.6	910.0	1010.2	1250.5	3511.2	11006.4	15208.1	8159.3
72.5°	618.6	616.7	645.1	739.7	802.1	879.7	1350.7	6167.2	8838.5	3895.2
75°	478.6	497.5	533.5	618.6	656.5	637.5	732.1	2253.1	3166.9	1180.5
77.5°	374.6	389.7	421.9	505.1	542.9	452.1	421.9	805.9	1017.8	423.8
80°	168.4	181.6	287.6	372.7	442.7	312.1	228.9	412.4	452.1	193.0
82.5°	30.3	51.1	168.4	196.7	227.0	202.4	119.2	213.8	221.3	77.6
85°	1.9	3.8	58.6	71.9	90.8	66.2	35.9	85.1	73.8	26.5
87.5°	0.0	0.0	0.0	1.9	1.9	9.5	11.4	15.1	11.4	9.5
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°
7393.1	0°	7393.1	7393.1	7393.1	7393.1	7393.1	7393.1	7393.1	7393.1	7393.1	7393.1
7410.2	2.5°	7273.9	7005.3	6744.2	6530.5	6405.6	6193.7	6053.7	6031.0	5972.4	6023.5
7429.1	5°	7133.9	6653.4	6167.2	5732.1	5374.6	4913.0	4568.7	4423.0	4296.3	4339.8
7478.3	7.5°	7067.7	6309.1	5552.4	4808.9	4044.7	3306.9	2758.2	2529.3	2355.3	2379.9
7533.1	10°	6978.8	5951.6	4765.4	3630.3	2606.9	1878.5	1500.2	1360.2	1282.6	1284.5
7614.5	12.5°	6910.7	5524.0	3851.7	2461.2	1587.2	1199.4	1082.1	1048.1	1025.4	1027.2
7737.4	15°	6876.7	5020.8	2949.3	1640.2	1135.1	1015.9	987.5	972.4	957.2	955.4
7873.6	17.5°	6819.9	4460.8	2158.5	1197.5	993.2	951.6	927.0	910.0	891.0	887.3
7990.9	20°	6734.8	3825.2	1577.8	1012.1	930.8	898.6	864.5	841.8	819.1	815.4
8064.7	22.5°	6577.8	3153.6	1212.6	936.4	885.4	849.4	807.8	781.3	758.6	754.8
8028.8	25°	6286.4	2523.7	1021.6	889.1	845.6	802.1	756.7	720.8	700.0	696.2
7951.2	27.5°	5917.5	1982.6	927.0	845.6	794.6	754.8	703.7	669.7	650.8	647.0
7849.0	30°	5482.4	1526.7	872.1	796.4	734.0	700.0	654.6	626.2	614.8	614.8
7777.2	32.5°	5013.2	1220.2	849.4	747.3	681.0	643.2	607.3	595.9	592.1	590.2
7816.9	35°	4572.5	1059.4	838.1	707.5	633.8	597.8	582.7	584.6	592.1	592.1
7939.9	37.5°	4180.9	1008.3	832.4	679.2	592.1	560.0	569.4	586.5	578.9	578.9
8155.5	40°	3827.1	1014.0	828.6	658.3	558.1	539.2	558.1	544.8	525.9	524.0
8418.5	42.5°	3556.6	1061.3	821.0	641.3	537.3	524.0	516.5	495.6	493.8	497.5
8690.9	45°	3359.8	1102.9	819.1	633.8	514.6	490.0	480.5	459.7	497.5	507.0
8802.5	47.5°	3127.1	1102.9	819.1	607.3	476.7	467.3	452.1	429.4	467.3	476.7
8696.6	50°	2826.3	1032.9	787.0	577.0	446.5	440.8	414.3	385.9	378.4	384.0
8448.7	52.5°	2446.1	906.2	705.6	535.4	416.2	404.8	372.7	351.9	346.2	346.2
8004.2	55°	2012.9	758.6	595.9	474.8	384.0	363.2	340.5	331.1	325.4	321.6
7381.8	57.5°	1636.4	622.4	478.6	421.9	353.8	327.3	319.7	308.4	298.9	293.2
6861.5	60°	1343.2	490.0	395.4	374.6	323.5	298.9	297.0	281.9	257.3	253.5
6432.1	62.5°	1036.7	359.4	333.0	325.4	293.2	272.4	268.6	238.4	200.5	193.0
5822.9	65°	732.1	280.0	268.6	285.7	261.1	242.1	232.7	187.3	147.6	141.9
4873.3	67.5°	514.6	234.6	211.9	249.7	227.0	202.4	196.7	158.9	123.0	119.2
3685.2	70°	367.0	191.1	174.0	213.8	181.6	177.8	166.5	132.4	100.3	96.5
1823.7	72.5°	259.2	145.7	134.3	185.4	124.9	153.2	136.2	102.2	75.7	71.9
620.5	75°	191.1	104.0	94.6	107.8	90.8	115.4	96.5	68.1	47.3	45.4
280.0	77.5°	140.0	66.2	56.8	53.0	53.0	71.9	53.0	28.4	20.8	18.9
141.9	80°	98.4	30.3	26.5	22.7	20.8	17.0	7.6	3.8	1.9	1.9
49.2	82.5°	58.6	13.2	13.2	9.5	5.7	0.0	0.0	0.0	0.0	0.0
18.9	85°	13.2	5.7	5.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
7.6	87.5°	1.9	1.9	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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