

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: P952056

Luminaire Tested: **GALN-SB6A-740-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952056  
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-SB6A-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

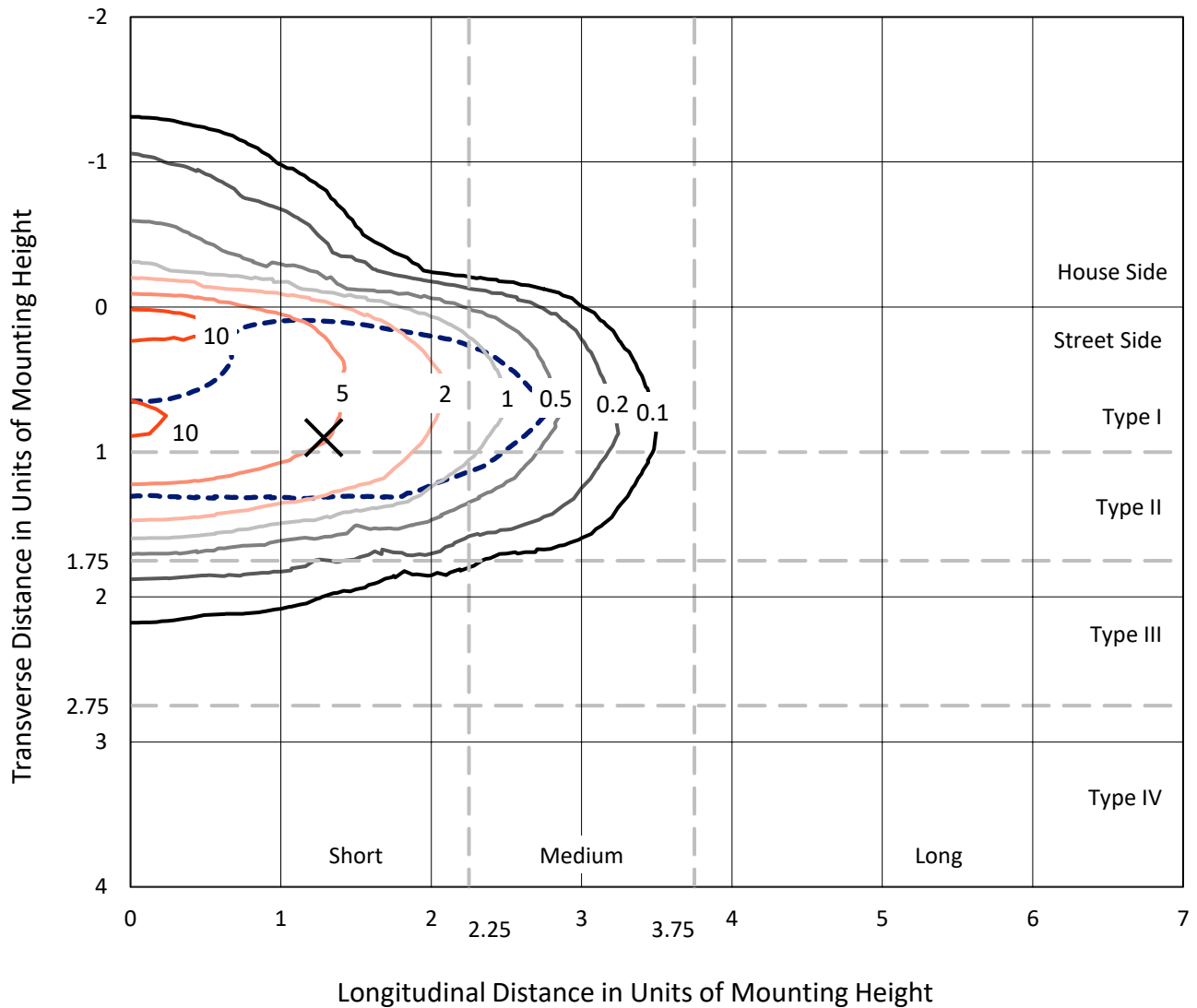
Lumens per Lamp: N/A  
Luminaire Lumens: 24537 lumens  
Efficiency: N/A  
Efficacy: 143.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

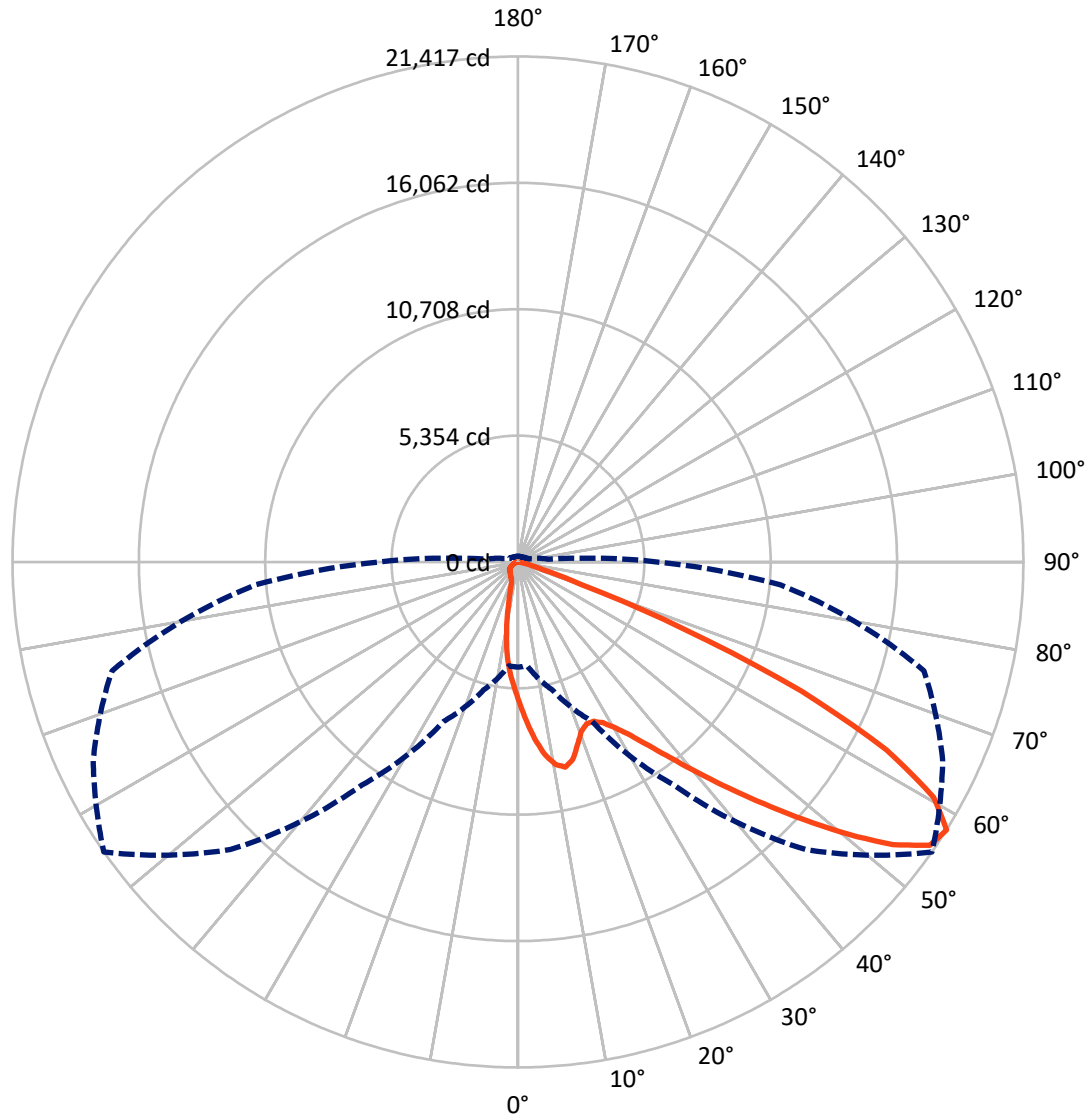
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	1916.2	0.0	1916.2
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	22620.8	0.0	22620.8
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	24537.0	0.0	24537.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	550.2	2.2
10°-20°	1328.9	5.4
20°-30°	2126.2	8.7
30°-40°	3598.8	14.7
40°-50°	5908.4	24.1
50°-60°	6493.8	26.5
60°-70°	3724.8	15.2
70°-80°	761.1	3.1
80°-90°	44.9	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°	24537.0	100.0
0°-180°	24537.0	100.0

**Coefficient of Utilization**



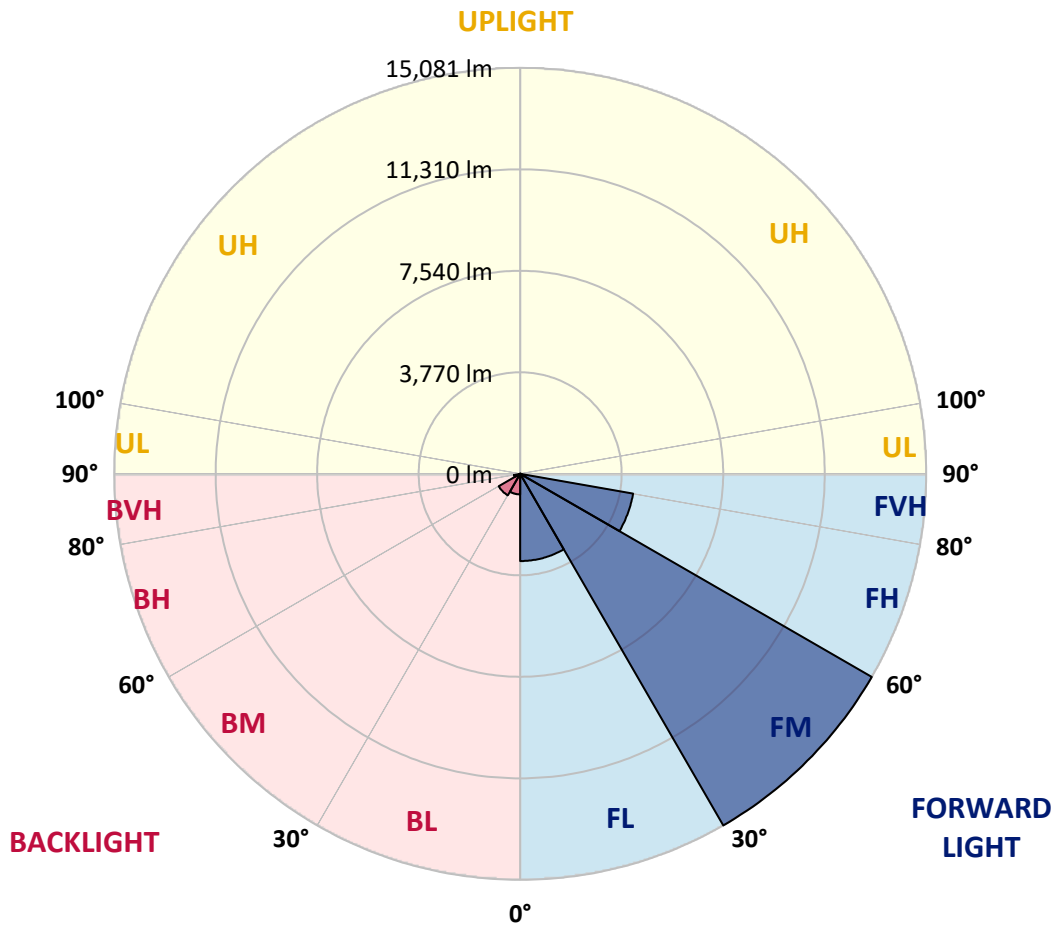
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3240.3	13.2			
FM	(30°-60°)	15080.6	61.5			
FH	(60°-80°)	4258.0	17.4			G2/5000
FVH	(80°-90°)	41.9	0.2			G1/100
BL	(0°-30°)	765.0	3.1	B2/1000		
BM	(30°-60°)	920.3	3.8	B1/1000		
BH	(60°-80°)	227.9	0.9	B1/500		G1/500
BVH	(80°-90°)	3.0	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°	5912.8	5912.8	5912.8	5912.8	5912.8	5912.8	5912.8	5912.8	5912.8	5912.8
2.5°	7336.5	7244.3	7230.6	7212.5	7037.0	6905.3	6714.7	6505.9	6271.4	6032.3
5°	8475.8	8403.2	8389.6	8304.9	8105.2	7881.2	7542.3	7114.1	6676.9	6162.5
7.5°	8696.7	8683.1	8745.2	8742.1	8714.9	8537.9	8251.9	7742.0	7085.4	6322.8
10°	7711.8	7746.6	7931.2	8093.0	8530.3	8784.5	8722.5	8301.8	7506.0	6505.9
12.5°	6814.6	6773.7	6905.3	7088.4	7596.8	8353.3	8917.6	8769.4	7987.1	6713.2
15°	6251.7	6235.1	6309.2	6393.9	6781.3	7543.8	8690.7	9149.1	8450.1	6958.3
17.5°	6071.7	6058.1	6080.8	6101.9	6353.1	6943.2	8150.5	9382.1	8893.4	7238.2
20°	6218.4	6200.3	6197.3	6180.6	6285.0	6687.5	7661.8	9398.8	9291.3	7492.4
22.5°	6646.6	6625.4	6551.3	6484.7	6493.8	6722.3	7444.0	9232.3	9590.9	7729.9
25°	7422.8	7388.0	7233.7	7009.7	6867.5	6964.3	7477.3	9013.0	9876.9	7916.0
27.5°	8394.1	8348.7	8150.5	7817.7	7492.4	7374.4	7717.8	8861.7	10114.4	8058.2
30°	9345.8	9286.8	9091.6	8832.9	8357.8	7985.6	8152.1	8928.2	10397.4	8206.5
32.5°	10373.1	10317.2	10058.4	9737.7	9344.3	8843.5	8746.7	9253.5	10743.8	8413.8
35°	11672.8	11585.1	11217.4	10780.1	10362.6	9855.7	9551.6	9814.8	11205.3	8730.0
37.5°	13152.5	13034.5	12638.1	12034.4	11489.7	10922.4	10532.0	10586.5	11881.6	9153.7
40°	14547.5	14440.1	14073.9	13505.1	12821.2	12132.8	11716.7	11595.6	12815.1	9669.6
42.5°	15384.2	15287.4	15133.0	14892.5	14316.0	13614.0	13089.0	12827.2	13919.6	10286.9
45°	15431.1	15346.4	15553.7	15833.6	15720.1	15252.6	14612.6	14133.0	15028.7	10866.4
47.5°	14680.7	14623.2	15252.6	16230.0	16717.2	16913.9	16323.8	15329.7	15944.0	11282.5
50°	12635.1	12613.9	13909.0	15703.4	17096.9	18369.4	18128.8	16443.3	16653.6	11497.3
52.5°	10955.6	10878.5	11633.5	14018.0	16544.7	19134.9	19893.0	17535.7	17149.9	11538.2
55°	8309.4	8241.3	9188.5	11197.7	14763.9	18862.6	21183.5	18662.9	17505.4	11433.8
57.5°	4457.3	4414.9	5611.7	7453.0	11541.2	17228.6	21416.5	19855.1	17805.0	11156.9
60°	1735.4	1727.8	2175.7	3616.1	7014.3	14016.5	20240.9	20570.8	17992.6	10816.5
62.5°	1050.0	1072.7	1145.3	1623.5	3098.6	8707.3	17531.2	19756.8	18118.2	10504.8
65°	868.5	870.0	879.1	1115.1	1484.3	3643.3	13197.9	17078.8	17808.0	9949.5
67.5°	744.4	758.0	792.8	885.1	1047.0	1597.7	7598.3	13229.7	15921.3	8657.4
70°	587.0	605.2	649.1	727.8	807.9	1000.1	2808.1	8802.6	12163.0	6525.6
72.5°	494.8	493.2	515.9	591.6	641.5	703.5	1080.3	4932.4	7068.7	3115.3
75°	382.8	397.9	426.7	494.8	525.0	509.9	585.5	1802.0	2532.8	944.1
77.5°	299.6	311.7	337.4	404.0	434.2	361.6	337.4	644.5	814.0	338.9
80°	134.7	145.2	230.0	298.1	354.0	249.6	183.1	329.8	361.6	154.3
82.5°	24.2	40.9	134.7	157.4	181.6	161.9	95.3	171.0	177.0	62.0
85°	1.5	3.0	46.9	57.5	72.6	53.0	28.7	68.1	59.0	21.2
87.5°	0.0	0.0	0.0	1.5	1.5	7.6	9.1	12.1	9.1	7.6
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°
5912.8	0°	5912.8	5912.8	5912.8	5912.8	5912.8	5912.8	5912.8	5912.8	5912.8	5912.8
5926.4	2.5°	5817.5	5602.6	5393.9	5222.9	5123.0	4953.6	4841.6	4823.5	4776.5	4817.4
5941.6	5°	5705.5	5321.2	4932.4	4584.4	4298.4	3929.3	3653.9	3537.4	3436.0	3470.8
5980.9	7.5°	5652.6	5045.9	4440.7	3846.1	3234.8	2644.7	2206.0	2022.9	1883.7	1903.4
6024.8	10°	5581.5	4759.9	3811.3	2903.5	2084.9	1502.4	1199.8	1087.8	1025.8	1027.3
6089.8	12.5°	5527.0	4418.0	3080.5	1968.4	1269.4	959.2	865.4	838.2	820.0	821.6
6188.2	15°	5499.8	4015.5	2358.8	1311.8	907.8	812.5	789.8	777.7	765.6	764.1
6297.1	17.5°	5454.4	3567.7	1726.3	957.7	794.3	761.0	741.4	727.8	712.6	709.6
6390.9	20°	5386.3	3059.3	1261.8	809.5	744.4	718.7	691.4	673.3	655.1	652.1
6449.9	22.5°	5260.7	2522.2	969.8	748.9	708.1	679.3	646.1	624.9	606.7	603.7
6421.2	25°	5027.7	2018.3	817.0	711.1	676.3	641.5	605.2	576.5	559.8	556.8
6359.1	27.5°	4732.7	1585.6	741.4	676.3	635.5	603.7	562.8	535.6	520.5	517.4
6277.4	30°	4384.7	1221.0	697.5	637.0	587.0	559.8	523.5	500.8	491.7	491.7
6220.0	32.5°	4009.5	975.9	679.3	597.6	544.7	514.4	485.7	476.6	473.6	472.1
6251.7	35°	3656.9	847.3	670.3	565.9	506.9	478.1	466.0	467.5	473.6	473.6
6350.1	37.5°	3343.7	806.4	665.7	543.2	473.6	447.8	455.4	469.0	463.0	463.0
6522.6	40°	3060.8	811.0	662.7	526.5	446.3	431.2	446.3	435.7	420.6	419.1
6732.9	42.5°	2844.4	848.8	656.6	512.9	429.7	419.1	413.0	396.4	394.9	397.9
6950.7	45°	2687.1	882.1	655.1	506.9	411.5	391.9	384.3	367.7	397.9	405.5
7040.0	47.5°	2501.0	882.1	655.1	485.7	381.3	373.7	361.6	343.5	373.7	381.3
6955.3	50°	2260.4	826.1	629.4	461.5	357.1	352.5	331.3	308.7	302.6	307.1
6757.1	52.5°	1956.3	724.7	564.3	428.2	332.9	323.8	298.1	281.4	276.9	276.9
6401.5	55°	1609.8	606.7	476.6	379.8	307.1	290.5	272.3	264.8	260.2	257.2
5903.7	57.5°	1308.7	497.8	382.8	337.4	282.9	261.7	255.7	246.6	239.1	234.5
5487.7	60°	1074.2	391.9	316.2	299.6	258.7	239.1	237.5	225.4	205.8	202.7
5144.2	62.5°	829.1	287.5	266.3	260.2	234.5	217.9	214.8	190.6	160.4	154.3
4657.0	65°	585.5	223.9	214.8	228.5	208.8	193.7	186.1	149.8	118.0	113.5
3897.5	67.5°	411.5	187.6	169.5	199.7	181.6	161.9	157.4	127.1	98.3	95.3
2947.3	70°	293.5	152.8	139.2	171.0	145.2	142.2	133.1	105.9	80.2	77.2
1458.5	72.5°	207.3	116.5	107.4	148.3	99.9	122.6	108.9	81.7	60.5	57.5
496.3	75°	152.8	83.2	75.7	86.2	72.6	92.3	77.2	54.5	37.8	36.3
223.9	77.5°	112.0	53.0	45.4	42.4	42.4	57.5	42.4	22.7	16.6	15.1
113.5	80°	78.7	24.2	21.2	18.2	16.6	13.6	6.1	3.0	1.5	1.5
39.3	82.5°	46.9	10.6	10.6	7.6	4.5	0.0	0.0	0.0	0.0	0.0
15.1	85°	10.6	4.5	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
6.1	87.5°	1.5	1.5	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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