

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: P950859

Luminaire Tested: **GALN-SB5A-940-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950859  
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-SB5A-940-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

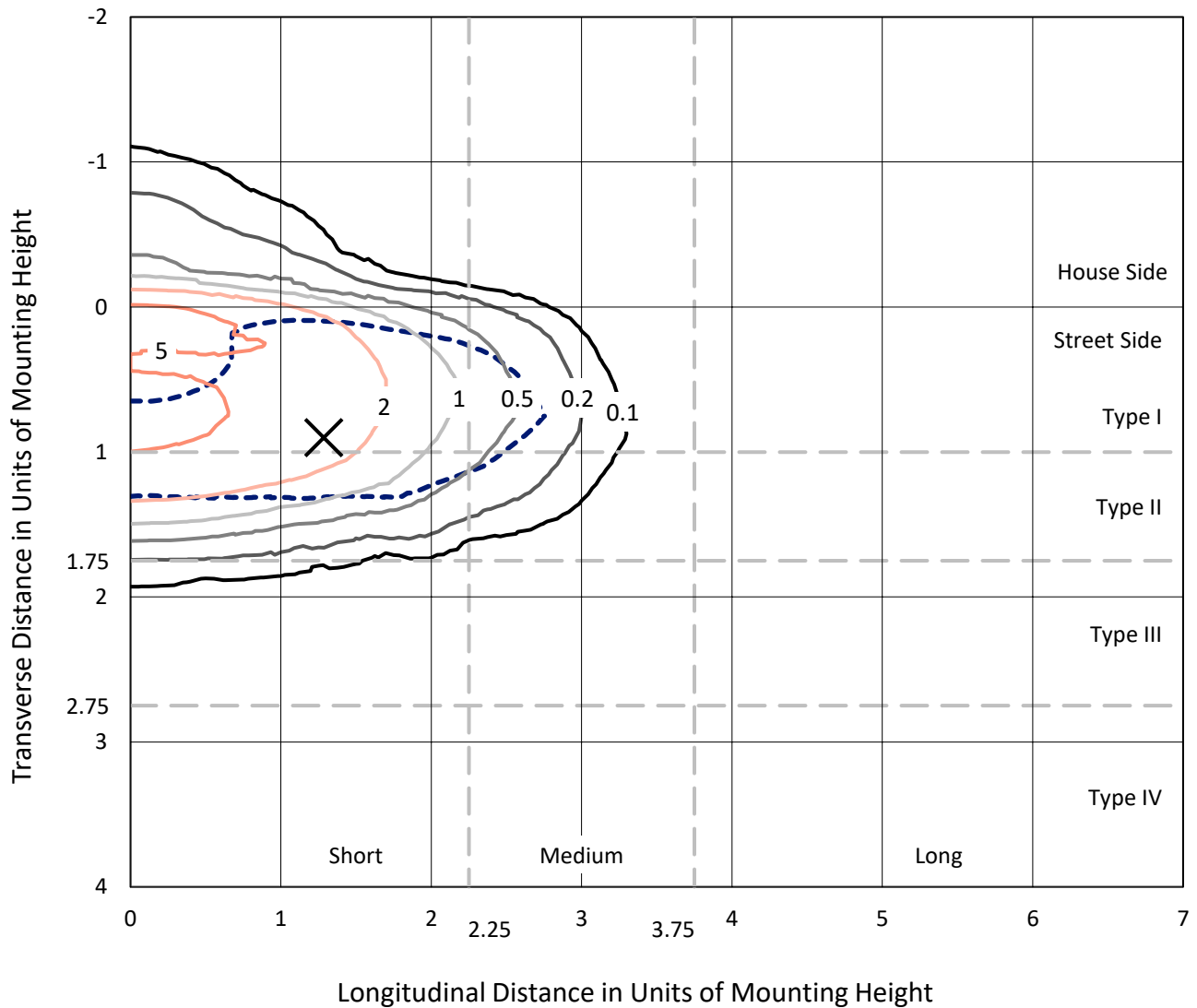
Lumens per Lamp: N/A  
Luminaire Lumens: 14000 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

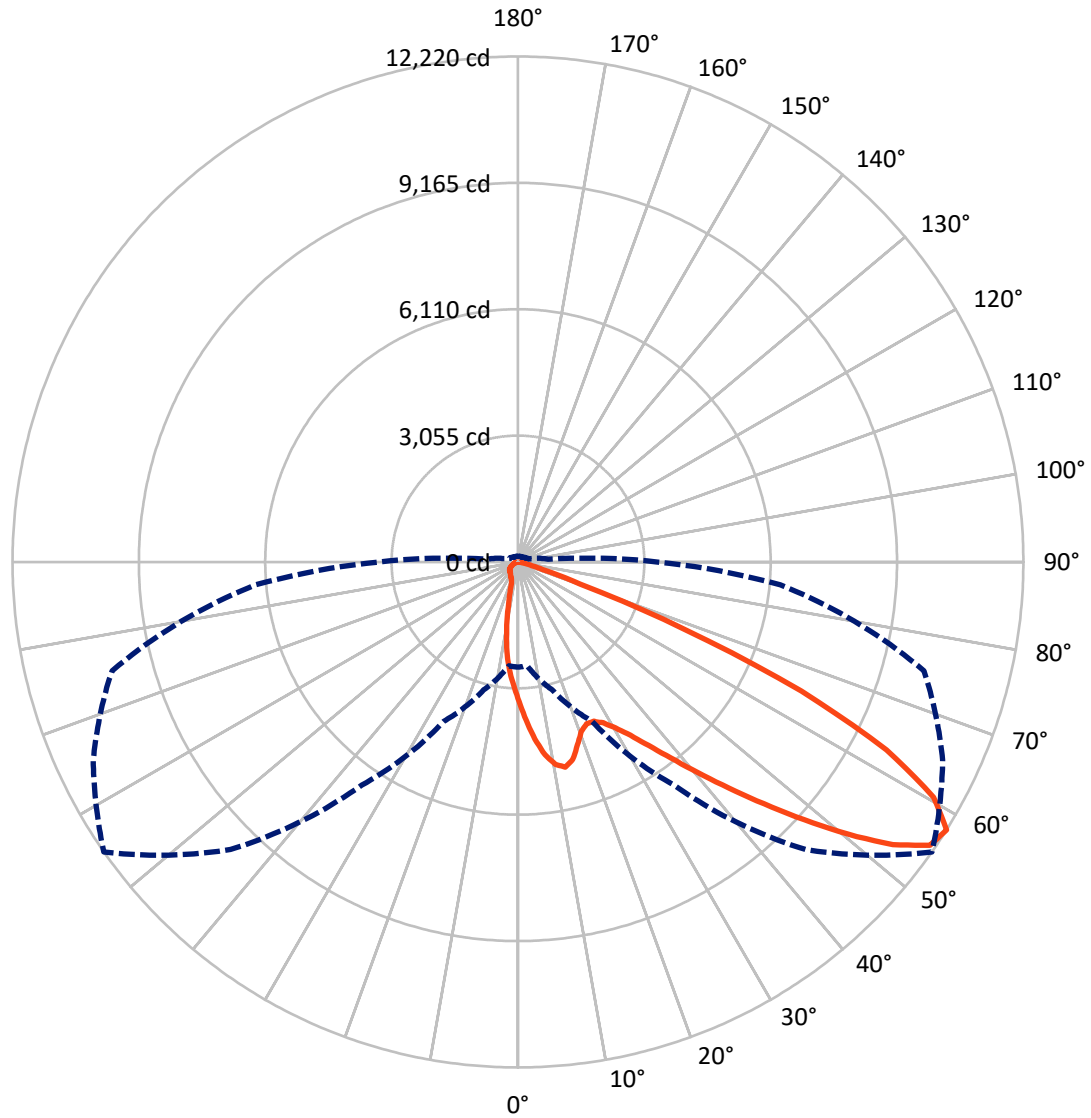
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	1093.3	0.0	1093.3
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	12906.7	0.0	12906.7
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	14000.0	0.0	14000.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.9	2.2
10°-20°	758.2	5.4
20°-30°	1213.2	8.7
30°-40°	2053.3	14.7
40°-50°	3371.1	24.1
50°-60°	3705.1	26.5
60°-70°	2125.3	15.2
70°-80°	434.3	3.1
80°-90°	25.6	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°	14000.0	100.0
0°-180°	14000.0	100.0

**Coefficient of Utilization**



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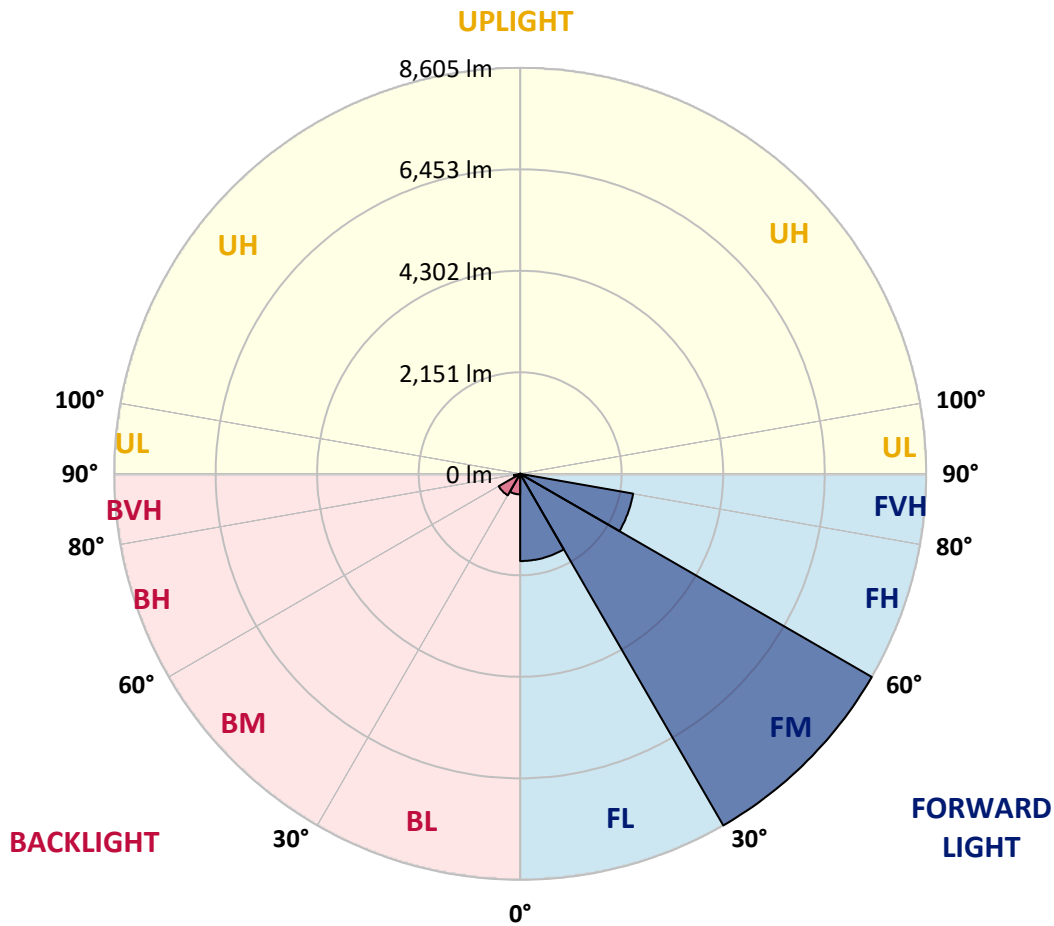
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1848.8	13.2			
FM (30°-60°)	8604.5	61.5			
FH (60°-80°)	2429.5	17.4			G2/5000
FVH (80°-90°)	23.9	0.2			G1/100
BL (0°-30°)	436.5	3.1	B1/500		
BM (30°-60°)	525.1	3.8	B1/1000		
BH (60°-80°)	130.0	0.9	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3373.7	3373.7	3373.7	3373.7	3373.7	3373.7	3373.7	3373.7	3373.7	3373.7
2.5°	4186.0	4133.3	4125.6	4115.2	4015.1	3940.0	3831.2	3712.1	3578.2	3441.9
5°	4836.0	4794.6	4786.8	4738.5	4624.5	4496.8	4303.4	4059.1	3809.6	3516.1
7.5°	4962.1	4954.3	4989.7	4988.0	4972.4	4871.4	4708.3	4417.3	4042.7	3607.6
10°	4400.1	4419.9	4525.3	4617.6	4867.1	5012.1	4976.7	4736.8	4282.7	3712.1
12.5°	3888.2	3864.9	3940.0	4044.4	4334.5	4766.1	5088.1	5003.5	4557.2	3830.3
15°	3567.0	3557.5	3599.8	3648.2	3869.2	4304.3	4958.6	5220.2	4821.4	3970.2
17.5°	3464.3	3456.5	3469.5	3481.6	3624.9	3961.5	4650.4	5353.1	5074.3	4129.9
20°	3548.0	3537.7	3535.9	3526.5	3586.0	3815.6	4371.6	5362.6	5301.3	4274.9
22.5°	3792.3	3780.3	3738.0	3700.0	3705.2	3835.5	4247.3	5267.7	5472.3	4410.4
25°	4235.2	4215.3	4127.3	3999.5	3918.4	3973.6	4266.3	5142.5	5635.4	4516.6
27.5°	4789.4	4763.5	4650.4	4460.5	4274.9	4207.6	4403.5	5056.2	5771.0	4597.8
30°	5332.4	5298.7	5187.4	5039.8	4768.7	4556.3	4651.3	5094.1	5932.4	4682.4
32.5°	5918.6	5886.6	5739.0	5556.0	5331.5	5045.8	4990.6	5279.8	6130.1	4800.6
35°	6660.1	6610.1	6400.3	6150.8	5912.5	5623.3	5449.8	5600.0	6393.4	4981.1
37.5°	7504.4	7437.1	7210.9	6866.4	6555.7	6231.9	6009.2	6040.3	6779.3	5222.8
40°	8300.3	8239.0	8030.1	7705.5	7315.3	6922.6	6685.2	6616.1	7311.9	5517.2
42.5°	8777.7	8722.5	8634.4	8497.2	8168.3	7767.7	7468.1	7318.8	7942.1	5869.4
45°	8804.5	8756.1	8874.4	9034.1	8969.4	8702.6	8337.5	8063.8	8574.9	6200.0
47.5°	8376.3	8343.5	8702.6	9260.3	9538.3	9650.5	9313.8	8746.6	9097.1	6437.4
50°	7209.2	7197.1	7936.0	8959.9	9754.9	10480.9	10343.7	9382.0	9502.0	6560.0
52.5°	6250.9	6206.9	6637.7	7998.2	9439.8	10917.8	11350.3	10005.3	9785.2	6583.3
55°	4741.1	4702.2	5242.6	6389.1	8423.8	10762.4	12086.6	10648.4	9988.0	6523.7
57.5°	2543.2	2519.0	3201.9	4252.5	6585.0	9830.0	12219.6	11328.7	10158.9	6365.7
60°	990.2	985.9	1241.4	2063.2	4002.1	7997.3	11548.8	11737.0	10266.0	6171.5
62.5°	599.1	612.1	653.5	926.3	1768.0	4968.1	10002.7	11272.6	10337.6	5993.7
65°	495.5	496.4	501.6	636.2	846.9	2078.8	7530.3	9744.6	10160.7	5676.9
67.5°	424.7	432.5	452.4	505.0	597.4	911.6	4335.3	7548.4	9084.2	4939.6
70°	334.9	345.3	370.3	415.2	461.0	570.6	1602.2	5022.5	6939.8	3723.3
72.5°	282.3	281.4	294.4	337.5	366.0	401.4	616.4	2814.3	4033.2	1777.5
75°	218.4	227.0	243.4	282.3	299.6	290.9	334.1	1028.2	1445.1	538.7
77.5°	170.9	177.8	192.5	230.5	247.8	206.3	192.5	367.8	464.4	193.4
80°	76.8	82.9	131.2	170.1	202.0	142.4	104.5	188.2	206.3	88.1
82.5°	13.8	23.3	76.8	89.8	103.6	92.4	54.4	97.5	101.0	35.4
85°	0.9	1.7	26.8	32.8	41.4	30.2	16.4	38.8	33.7	12.1
87.5°	0.0	0.0	0.0	0.9	0.9	4.3	5.2	6.9	5.2	4.3
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°
3373.7	0°	3373.7	3373.7	3373.7	3373.7	3373.7	3373.7	3373.7	3373.7	3373.7	3373.7
3381.4	2.5°	3319.3	3196.7	3077.6	2980.0	2923.0	2826.3	2762.5	2752.1	2725.3	2748.6
3390.1	5°	3255.4	3036.1	2814.3	2615.7	2452.5	2241.9	2084.8	2018.3	1960.5	1980.3
3412.5	7.5°	3225.2	2879.0	2533.7	2194.4	1845.7	1509.0	1258.6	1154.2	1074.8	1086.0
3437.5	10°	3184.6	2715.8	2174.6	1656.6	1189.6	857.2	684.6	620.7	585.3	586.2
3474.7	12.5°	3153.5	2520.7	1757.6	1123.1	724.3	547.3	493.8	478.3	467.9	468.8
3530.8	15°	3138.0	2291.1	1345.8	748.5	518.0	463.6	450.6	443.7	436.8	436.0
3592.9	17.5°	3112.1	2035.6	985.0	546.4	453.2	434.2	423.0	415.2	406.6	404.9
3646.4	20°	3073.2	1745.5	720.0	461.8	424.7	410.1	394.5	384.2	373.8	372.1
3680.1	22.5°	3001.6	1439.1	553.4	427.3	404.0	387.6	368.6	356.5	346.2	344.4
3663.7	25°	2868.6	1151.6	466.2	405.7	385.9	366.0	345.3	328.9	319.4	317.7
3628.3	27.5°	2700.3	904.7	423.0	385.9	362.6	344.4	321.1	305.6	297.0	295.2
3581.7	30°	2501.8	696.7	398.0	363.4	334.9	319.4	298.7	285.7	280.6	280.6
3548.9	32.5°	2287.7	556.8	387.6	341.0	310.8	293.5	277.1	271.9	270.2	269.3
3567.0	35°	2086.5	483.4	382.4	322.9	289.2	272.8	265.9	266.8	270.2	270.2
3623.1	37.5°	1907.8	460.1	379.8	309.9	270.2	255.5	259.8	267.6	264.2	264.2
3721.6	40°	1746.4	462.7	378.1	300.4	254.7	246.0	254.7	248.6	240.0	239.1
3841.5	42.5°	1622.9	484.3	374.7	292.6	245.2	239.1	235.7	226.2	225.3	227.0
3965.9	45°	1533.2	503.3	373.8	289.2	234.8	223.6	219.3	209.8	227.0	231.4
4016.8	47.5°	1427.0	503.3	373.8	277.1	217.5	213.2	206.3	196.0	213.2	217.5
3968.4	50°	1289.7	471.3	359.1	263.3	203.7	201.1	189.1	176.1	172.7	175.2
3855.4	52.5°	1116.2	413.5	322.0	244.3	189.9	184.7	170.1	160.6	158.0	158.0
3652.5	55°	918.5	346.2	271.9	216.7	175.2	165.7	155.4	151.1	148.5	146.8
3368.5	57.5°	746.7	284.0	218.4	192.5	161.4	149.3	145.9	140.7	136.4	133.8
3131.1	60°	612.9	223.6	180.4	170.9	147.6	136.4	135.5	128.6	117.4	115.7
2935.1	62.5°	473.1	164.0	151.9	148.5	133.8	124.3	122.6	108.8	91.5	88.1
2657.1	65°	334.1	127.8	122.6	130.4	119.1	110.5	106.2	85.5	67.3	64.7
2223.8	67.5°	234.8	107.0	96.7	114.0	103.6	92.4	89.8	72.5	56.1	54.4
1681.6	70°	167.5	87.2	79.4	97.5	82.9	81.1	76.0	60.4	45.8	44.0
832.2	72.5°	118.3	66.5	61.3	84.6	57.0	69.9	62.2	46.6	34.5	32.8
283.2	75°	87.2	47.5	43.2	49.2	41.4	52.7	44.0	31.1	21.6	20.7
127.8	77.5°	63.9	30.2	25.9	24.2	24.2	32.8	24.2	12.9	9.5	8.6
64.7	80°	44.9	13.8	12.1	10.4	9.5	7.8	3.5	1.7	0.9	0.9
22.4	82.5°	26.8	6.0	6.0	4.3	2.6	0.0	0.0	0.0	0.0	0.0
8.6	85°	6.0	2.6	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
3.5	87.5°	0.9	0.9	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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