

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: P947856

Luminaire Tested: **GALN-SB3A-830-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947856  
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-SB3A-830-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

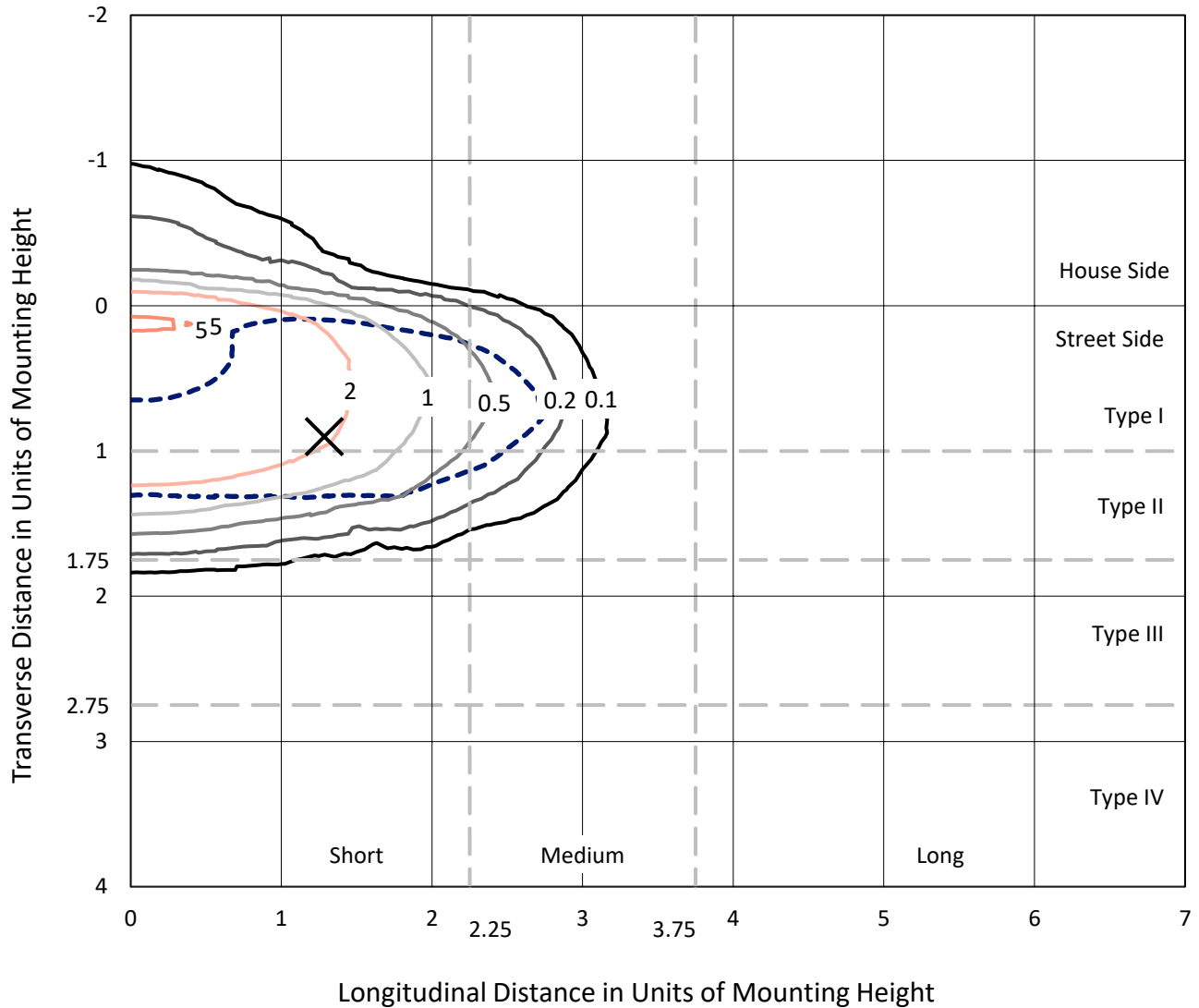
Lumens per Lamp: N/A  
Luminaire Lumens: 10311 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

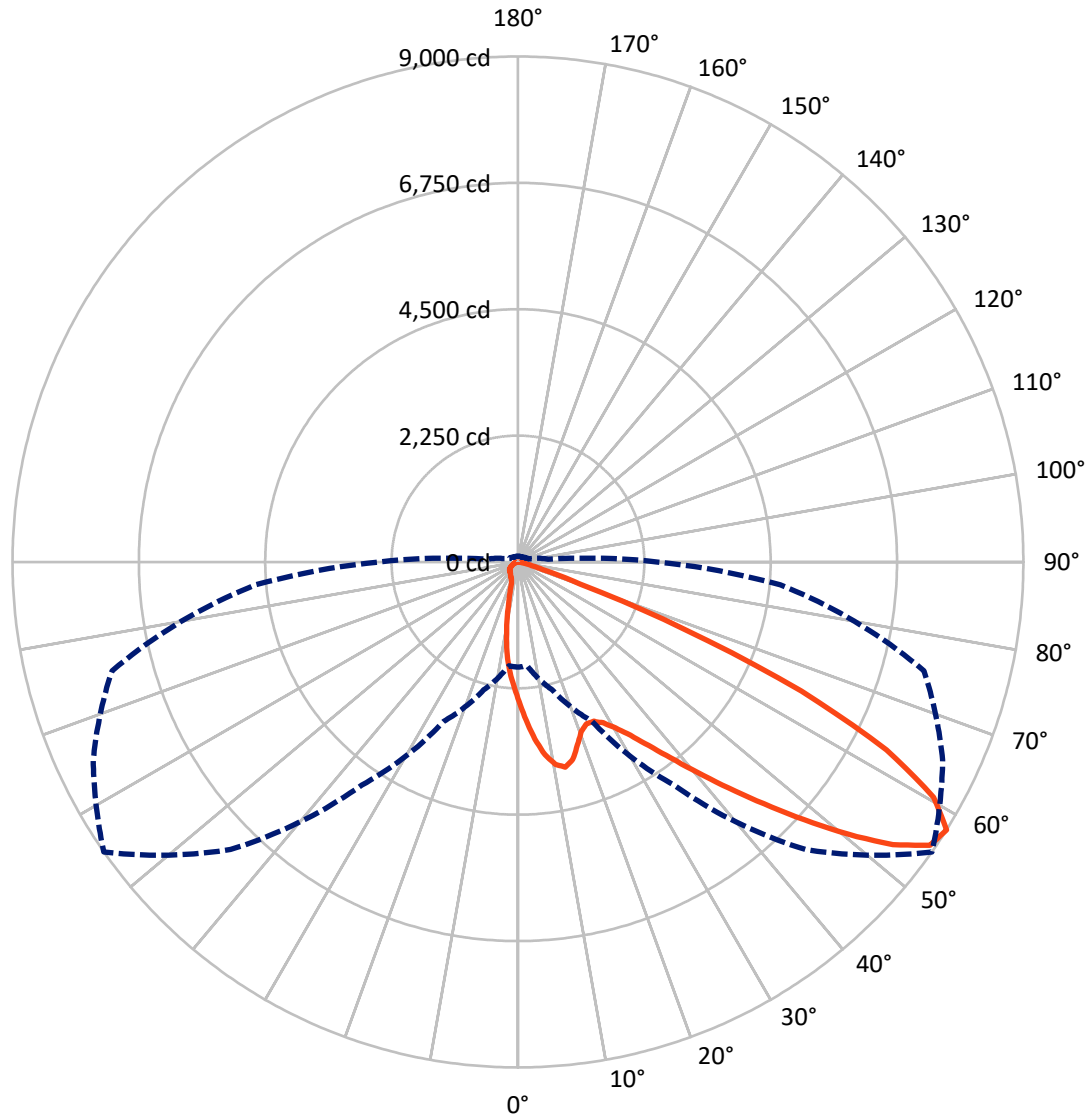
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	805.3	0.0	805.3
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	9505.8	0.0	9505.8
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	10311.0	0.0	10311.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.2	2.2
10°-20°	558.4	5.4
20°-30°	893.5	8.7
30°-40°	1512.3	14.7
40°-50°	2482.8	24.1
50°-60°	2728.8	26.5
60°-70°	1565.3	15.2
70°-80°	319.8	3.1
80°-90°	18.9	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°	10311.0	100.0
0°-180°	10311.0	100.0

**Coefficient of Utilization**



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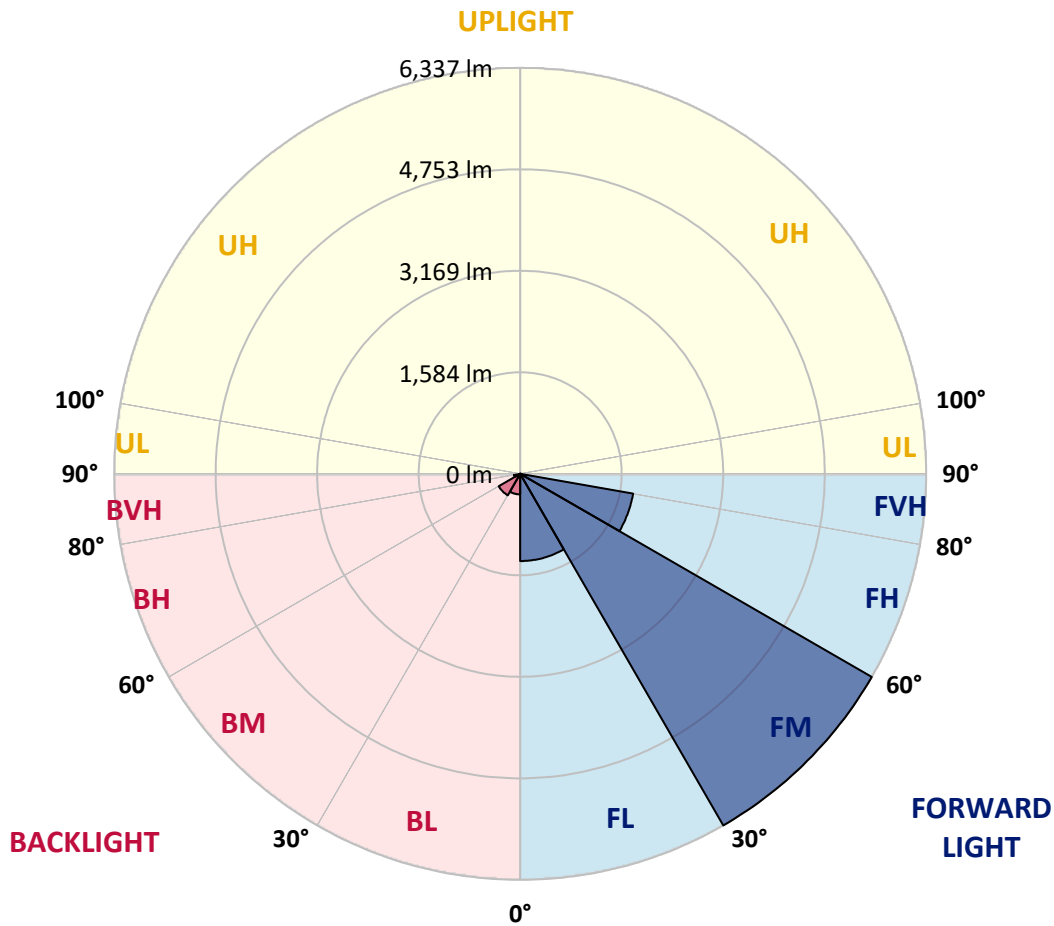
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1361.6	13.2			
FM (30°-60°)	6337.2	61.5			
FH (60°-80°)	1789.3	17.4			G1/1800
FVH (80°-90°)	17.6	0.2			G1/100
BL (0°-30°)	321.5	3.1	B1/500		
BM (30°-60°)	386.7	3.8	B1/1000		
BH (60°-80°)	95.8	0.9	B0/110		G0/110
BVH (80°-90°)	1.3	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-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2484.7	2484.7	2484.7	2484.7	2484.7	2484.7	2484.7	2484.7	2484.7	2484.7
2.5°	3083.0	3044.2	3038.5	3030.8	2957.1	2901.8	2821.7	2733.9	2635.4	2534.9
5°	3561.7	3531.2	3525.5	3489.9	3406.0	3311.9	3169.5	2989.5	2805.8	2589.6
7.5°	3654.6	3648.8	3674.9	3673.6	3662.2	3587.8	3467.6	3253.4	2977.4	2657.0
10°	3240.7	3255.3	3332.9	3400.9	3584.6	3691.4	3665.4	3488.6	3154.2	2733.9
12.5°	2863.6	2846.5	2901.8	2978.7	3192.3	3510.2	3747.4	3685.1	3356.4	2821.0
15°	2627.1	2620.1	2651.3	2686.9	2849.6	3170.1	3652.0	3844.7	3550.9	2924.0
17.5°	2551.5	2545.7	2555.3	2564.2	2669.7	2917.7	3425.0	3942.6	3737.2	3041.7
20°	2613.1	2605.5	2604.2	2597.2	2641.1	2810.2	3219.7	3949.6	3904.4	3148.5
22.5°	2793.1	2784.2	2753.0	2725.0	2728.8	2824.8	3128.1	3879.6	4030.3	3248.3
25°	3119.2	3104.6	3039.7	2945.7	2885.9	2926.6	3142.1	3787.4	4150.5	3326.5
27.5°	3527.4	3508.3	3425.0	3285.2	3148.5	3098.9	3243.2	3723.9	4250.3	3386.3
30°	3927.3	3902.5	3820.5	3711.8	3512.1	3355.7	3425.7	3751.8	4369.2	3448.6
32.5°	4359.0	4335.5	4226.8	4092.0	3926.7	3716.2	3675.5	3888.5	4514.8	3535.7
35°	4905.2	4868.3	4713.8	4530.1	4354.6	4141.6	4013.8	4124.4	4708.7	3668.6
37.5°	5527.0	5477.4	5310.8	5057.1	4828.2	4589.8	4425.8	4448.7	4992.9	3846.6
40°	6113.2	6068.1	5914.2	5675.1	5387.7	5098.5	4923.6	4872.8	5385.2	4063.4
42.5°	6464.8	6424.1	6359.2	6258.2	6015.9	5720.9	5500.3	5390.3	5849.3	4322.8
45°	6484.5	6448.9	6536.0	6653.6	6605.9	6409.5	6140.5	5939.0	6315.4	4566.3
47.5°	6169.1	6145.0	6409.5	6820.2	7024.9	7107.6	6859.6	6441.9	6700.0	4741.1
50°	5309.5	5300.6	5844.9	6598.9	7184.5	7719.2	7618.1	6909.8	6998.2	4831.4
52.5°	4603.8	4571.4	4888.6	5890.7	6952.4	8040.9	8359.5	7368.9	7206.8	4848.6
55°	3491.8	3463.2	3861.2	4705.5	6204.1	7926.5	8901.8	7842.6	7356.2	4804.7
57.5°	1873.1	1855.3	2358.2	3131.9	4849.9	7239.8	8999.7	8343.6	7482.1	4688.4
60°	729.3	726.1	914.3	1519.6	2947.6	5890.0	8505.7	8644.3	7560.9	4545.3
62.5°	441.2	450.8	481.3	682.2	1302.1	3659.0	7367.0	8302.2	7613.7	4414.3
65°	364.9	365.6	369.4	468.6	623.7	1531.0	5546.1	7176.9	7483.3	4181.0
67.5°	312.8	318.5	333.2	371.9	440.0	671.4	3193.0	5559.4	6690.5	3638.0
70°	246.7	254.3	272.8	305.8	339.5	420.3	1180.0	3699.1	5111.2	2742.2
72.5°	207.9	207.3	216.8	248.6	269.6	295.6	454.0	2072.7	2970.4	1309.1
75°	160.9	167.2	179.3	207.9	220.6	214.3	246.1	757.2	1064.3	396.7
77.5°	125.9	131.0	141.8	169.8	182.5	152.0	141.8	270.8	342.1	142.4
80°	56.6	61.0	96.6	125.3	148.8	104.9	76.9	138.6	152.0	64.9
82.5°	10.2	17.2	56.6	66.1	76.3	68.0	40.1	71.8	74.4	26.1
85°	0.6	1.3	19.7	24.2	30.5	22.3	12.1	28.6	24.8	8.9
87.5°	0.0	0.0	0.0	0.6	0.6	3.2	3.8	5.1	3.8	3.2
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°
2484.7	0°	2484.7	2484.7	2484.7	2484.7	2484.7	2484.7	2484.7	2484.7	2484.7	2484.7
2490.4	2.5°	2444.6	2354.4	2266.6	2194.8	2152.8	2081.6	2034.6	2026.9	2007.2	2024.4
2496.8	5°	2397.6	2236.1	2072.7	1926.5	1806.3	1651.2	1535.5	1486.5	1443.9	1458.5
2513.3	7.5°	2375.3	2120.4	1866.1	1616.2	1359.3	1111.4	927.0	850.1	791.6	799.8
2531.7	10°	2345.5	2000.2	1601.6	1220.1	876.1	631.3	504.2	457.1	431.1	431.7
2559.1	12.5°	2322.6	1856.5	1294.5	827.2	533.4	403.1	363.7	352.2	344.6	345.2
2600.4	15°	2311.1	1687.4	991.2	551.2	381.5	341.4	331.9	326.8	321.7	321.1
2646.2	17.5°	2292.1	1499.2	725.4	402.5	333.8	319.8	311.5	305.8	299.5	298.2
2685.6	20°	2263.4	1285.6	530.3	340.2	312.8	302.0	290.6	282.9	275.3	274.0
2710.4	22.5°	2210.7	1059.9	407.5	314.7	297.6	285.5	271.5	262.6	255.0	253.7
2698.3	25°	2112.8	848.2	343.3	298.8	284.2	269.6	254.3	242.2	235.2	234.0
2672.3	27.5°	1988.8	666.3	311.5	284.2	267.0	253.7	236.5	225.1	218.7	217.4
2637.9	30°	1842.5	513.1	293.1	267.7	246.7	235.2	220.0	210.4	206.6	206.6
2613.8	32.5°	1684.9	410.1	285.5	251.1	228.9	216.2	204.1	200.3	199.0	198.4
2627.1	35°	1536.7	356.0	281.7	237.8	213.0	200.9	195.8	196.5	199.0	199.0
2668.4	37.5°	1405.1	338.9	279.8	228.3	199.0	188.2	191.4	197.1	194.6	194.6
2740.9	40°	1286.2	340.8	278.5	221.3	187.6	181.2	187.6	183.1	176.8	176.1
2829.3	42.5°	1195.3	356.7	275.9	215.5	180.6	176.1	173.6	166.6	165.9	167.2
2920.9	45°	1129.2	370.7	275.3	213.0	172.9	164.7	161.5	154.5	167.2	170.4
2958.4	47.5°	1051.0	370.7	275.3	204.1	160.2	157.0	152.0	144.3	157.0	160.2
2922.8	50°	949.9	347.1	264.5	193.9	150.0	148.1	139.2	129.7	127.2	129.1
2839.5	52.5°	822.1	304.5	237.2	179.9	139.9	136.1	125.3	118.3	116.4	116.4
2690.1	55°	676.5	255.0	200.3	159.6	129.1	122.1	114.4	111.3	109.4	108.1
2480.9	57.5°	550.0	209.2	160.9	141.8	118.9	110.0	107.4	103.6	100.5	98.5
2306.0	60°	451.4	164.7	132.9	125.9	108.7	100.5	99.8	94.7	86.5	85.2
2161.7	62.5°	348.4	120.8	111.9	109.4	98.5	91.6	90.3	80.1	67.4	64.9
1957.0	65°	246.1	94.1	90.3	96.0	87.7	81.4	78.2	62.9	49.6	47.7
1637.8	67.5°	172.9	78.8	71.2	83.9	76.3	68.0	66.1	53.4	41.3	40.1
1238.5	70°	123.3	64.2	58.5	71.8	61.0	59.8	56.0	44.5	33.7	32.4
612.9	72.5°	87.1	49.0	45.1	62.3	42.0	51.5	45.8	34.3	25.4	24.2
208.5	75°	64.2	35.0	31.8	36.2	30.5	38.8	32.4	22.9	15.9	15.3
94.1	77.5°	47.0	22.3	19.1	17.8	17.8	24.2	17.8	9.5	7.0	6.4
47.7	80°	33.1	10.2	8.9	7.6	7.0	5.7	2.5	1.3	0.6	0.6
16.5	82.5°	19.7	4.5	4.5	3.2	1.9	0.0	0.0	0.0	0.0	0.0
6.4	85°	4.5	1.9	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
2.5	87.5°	0.6	0.6	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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