

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: P947583

Luminaire Tested: **GALN-SB2D-927-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947583  
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-SB2D-927-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

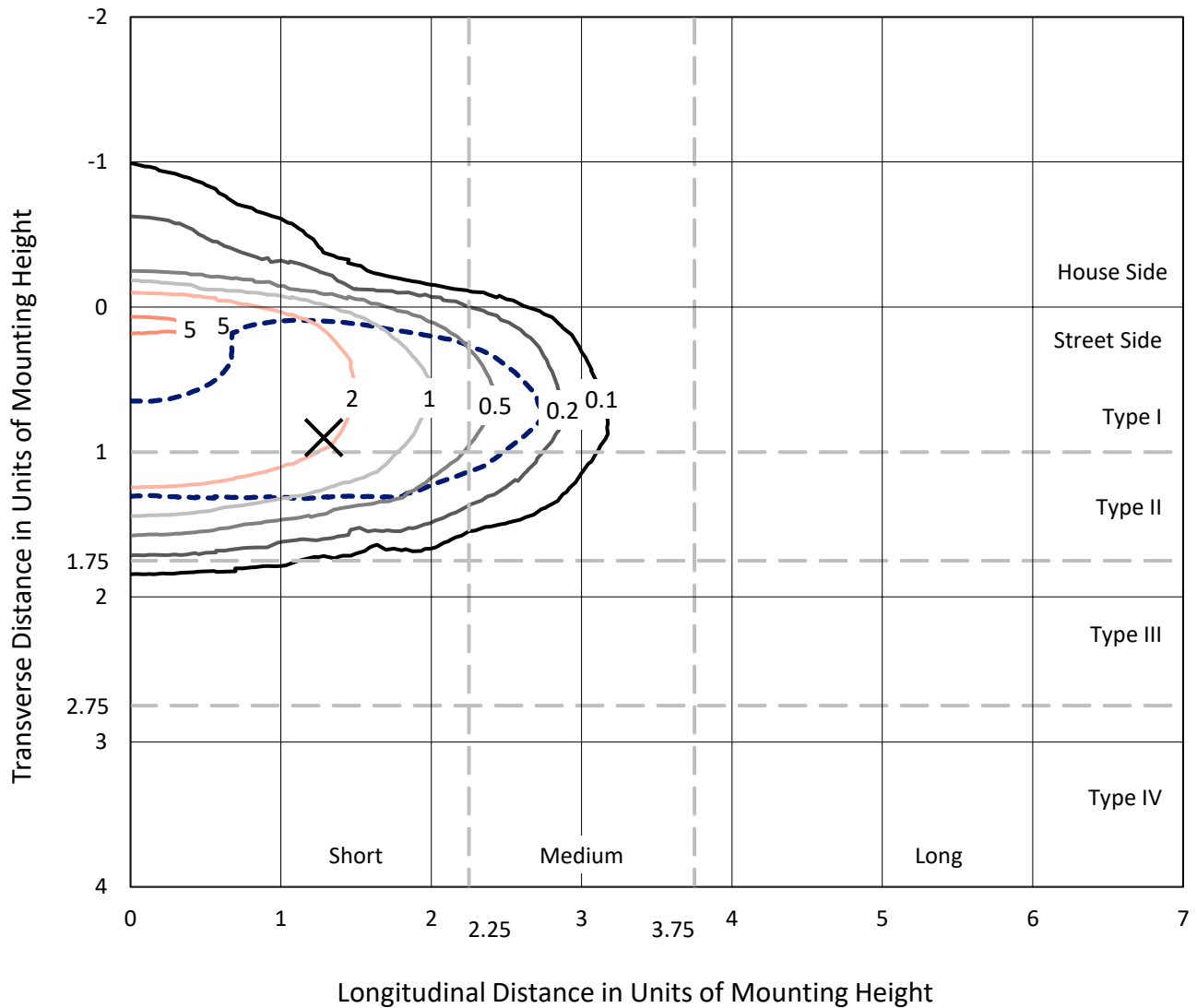
Lumens per Lamp: N/A  
Luminaire Lumens: 10562 lumens  
Efficiency: N/A  
Efficacy: 71.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

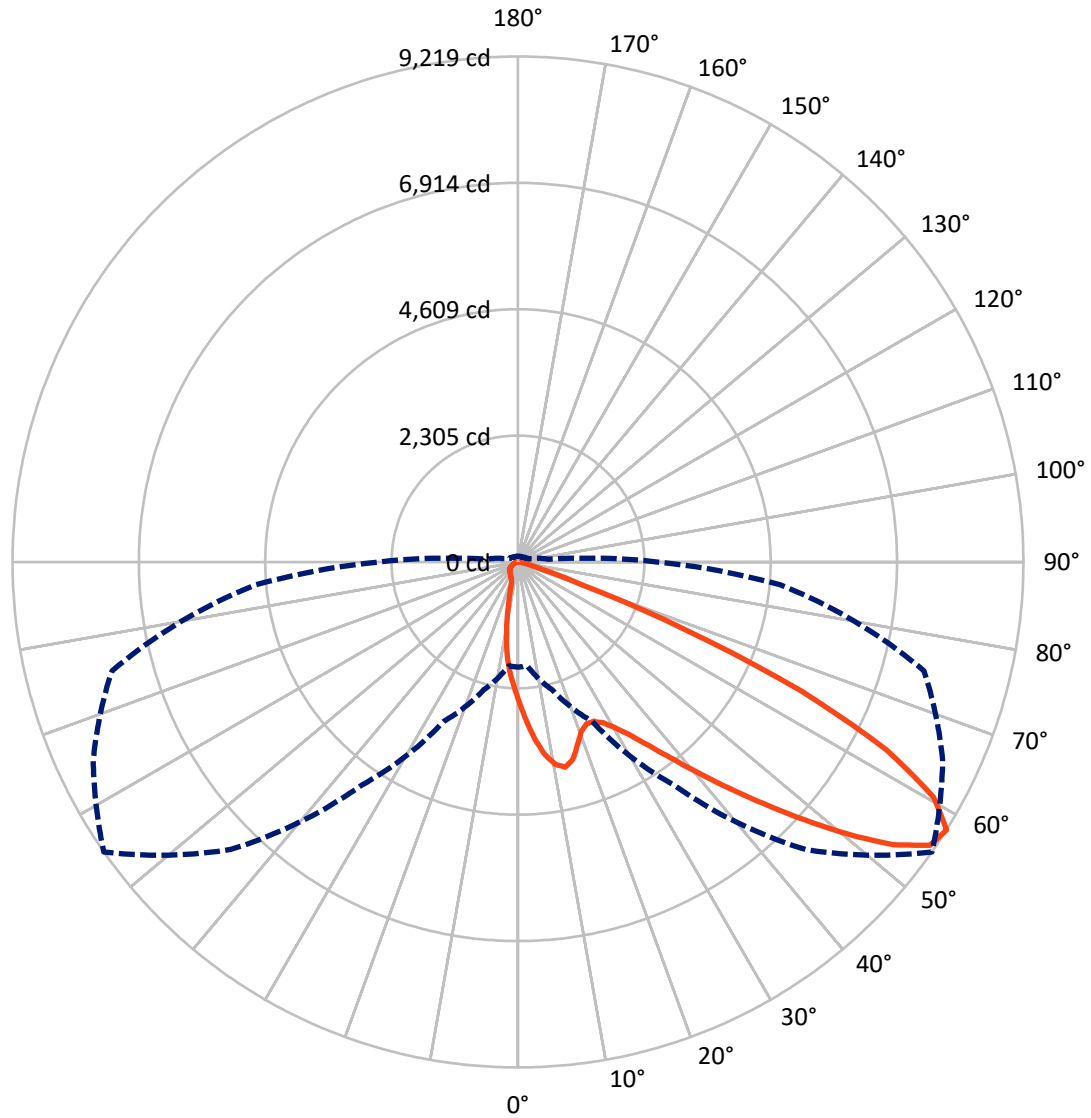
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P947583  
CATALOG NUMBER: GALN-SB2D-927-U-AFL-HSS

### 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	824.9	0.0	824.9
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	9737.2	0.0	9737.2
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	10562.0	0.0	10562.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.8	2.2
10°-20°	572.0	5.4
20°-30°	915.2	8.7
30°-40°	1549.1	14.7
40°-50°	2543.3	24.1
50°-60°	2795.3	26.5
60°-70°	1603.4	15.2
70°-80°	327.6	3.1
80°-90°	19.3	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°	10562.0	100.0
0°-180°	10562.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P947583

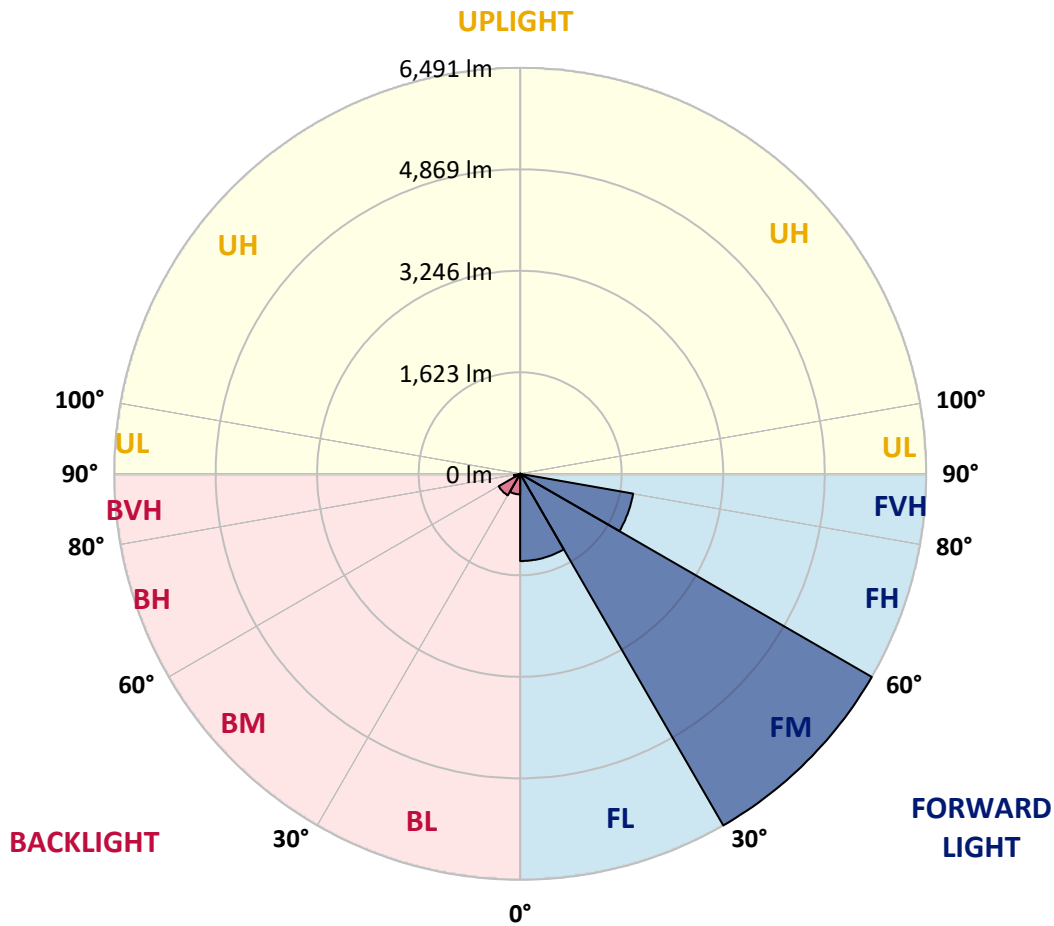
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1394.8	13.2			
FM (30°-60°)	6491.5	61.5			
FH (60°-80°)	1832.9	17.4			G2/5000
FVH (80°-90°)	18.0	0.2			G1/100
BL (0°-30°)	329.3	3.1	B1/500		
BM (30°-60°)	396.2	3.8	B1/1000		
BH (60°-80°)	98.1	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-G2**

Type II Short



REPORT NUMBER: P947583

CATALOG NUMBER: GALN-SB2D-927-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2545.2	2545.2	2545.2	2545.2	2545.2	2545.2	2545.2	2545.2	2545.2	2545.2
2.5°	3158.0	3118.3	3112.4	3104.6	3029.1	2972.4	2890.4	2800.5	2699.5	2596.6
5°	3648.4	3617.2	3611.3	3574.8	3488.9	3392.5	3246.6	3062.3	2874.1	2652.6
7.5°	3743.5	3737.7	3764.4	3763.1	3751.3	3675.1	3552.1	3332.6	3049.9	2721.7
10°	3319.5	3334.5	3414.0	3483.7	3671.9	3781.3	3754.6	3573.5	3231.0	2800.5
12.5°	2933.3	2915.8	2972.4	3051.2	3270.1	3595.7	3838.6	3774.8	3438.1	2889.7
15°	2691.1	2683.9	2715.8	2752.3	2919.0	3247.3	3740.9	3938.3	3637.4	2995.2
17.5°	2613.6	2607.7	2617.5	2626.6	2734.7	2988.7	3508.4	4038.6	3828.2	3115.7
20°	2676.7	2668.9	2667.6	2660.5	2705.4	2878.6	3298.1	4045.7	3999.5	3225.1
22.5°	2861.0	2851.9	2820.0	2791.4	2795.3	2893.6	3204.3	3974.1	4128.4	3327.4
25°	3195.2	3180.2	3113.7	3017.4	2956.1	2997.8	3218.6	3879.6	4251.5	3407.5
27.5°	3613.3	3593.7	3508.4	3365.1	3225.1	3174.3	3322.2	3814.5	4353.8	3468.7
30°	4022.9	3997.5	3913.5	3802.1	3597.6	3437.4	3509.1	3843.2	4475.6	3532.5
32.5°	4465.1	4441.0	4329.7	4191.6	4022.3	3806.7	3765.0	3983.2	4624.7	3621.7
35°	5024.6	4986.8	4828.6	4640.3	4460.6	4242.4	4111.5	4224.8	4823.3	3757.9
37.5°	5661.5	5610.7	5440.1	5180.2	4945.8	4701.6	4533.5	4557.0	5114.5	3940.2
40°	6262.0	6215.8	6058.2	5813.3	5518.9	5222.6	5043.5	4991.4	5516.3	4162.3
42.5°	6622.2	6580.5	6514.0	6410.5	6162.4	5860.2	5634.2	5521.5	5991.7	4428.0
45°	6642.4	6605.9	6695.1	6815.6	6766.7	6565.5	6290.0	6083.6	6469.1	4677.5
47.5°	6319.3	6294.6	6565.5	6986.2	7195.9	7280.6	7026.6	6598.7	6863.1	4856.6
50°	5438.8	5429.7	5987.2	6759.6	7359.4	7907.1	7803.6	7078.1	7168.6	4949.0
52.5°	4715.9	4682.7	5007.7	6034.1	7121.7	8236.7	8563.0	7548.3	7382.2	4966.6
55°	3576.8	3547.5	3955.2	4820.1	6355.1	8119.4	9118.5	8033.5	7535.2	4921.7
57.5°	1918.7	1900.4	2415.6	3208.2	4967.9	7416.1	9218.8	8546.7	7664.2	4802.5
60°	747.0	743.8	936.5	1556.5	3019.3	6033.4	8712.8	8854.7	7745.0	4656.0
62.5°	452.0	461.8	493.0	698.8	1333.8	3748.1	7546.3	8504.3	7799.0	4521.8
65°	373.8	374.5	378.4	480.0	638.9	1568.3	5681.1	7351.6	7665.5	4282.8
67.5°	320.4	326.3	341.3	381.0	450.7	687.7	3270.7	5694.7	6853.4	3726.6
70°	252.7	260.5	279.4	313.3	347.8	430.5	1208.8	3789.1	5235.6	2808.9
72.5°	213.0	212.3	222.1	254.6	276.1	302.8	465.0	2123.2	3042.8	1341.0
75°	164.8	171.3	183.7	213.0	226.0	219.5	252.0	775.7	1090.2	406.4
77.5°	129.0	134.2	145.2	173.9	186.9	155.7	145.2	277.4	350.4	145.9
80°	58.0	62.5	99.0	128.3	152.4	107.5	78.8	142.0	155.7	66.4
82.5°	10.4	17.6	58.0	67.7	78.2	69.7	41.0	73.6	76.2	26.7
85°	0.7	1.3	20.2	24.7	31.3	22.8	12.4	29.3	25.4	9.1
87.5°	0.0	0.0	0.0	0.7	0.7	3.3	3.9	5.2	3.9	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947583  
 CATALOG NUMBER: GALN-SB2D-927-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
2545.2	0°	2545.2	2545.2	2545.2	2545.2	2545.2	2545.2	2545.2	2545.2	2545.2	2545.2
2551.0	2.5°	2504.2	2411.7	2321.8	2248.2	2205.2	2132.3	2084.1	2076.3	2056.1	2073.7
2557.6	5°	2456.0	2290.5	2123.2	1973.4	1850.3	1691.4	1572.8	1522.7	1479.0	1494.0
2574.5	7.5°	2433.2	2172.0	1911.5	1655.5	1392.4	1138.4	949.6	870.8	810.8	819.3
2593.4	10°	2402.6	2048.9	1640.6	1249.8	897.5	646.7	516.5	468.3	441.6	442.2
2621.4	12.5°	2379.1	1901.7	1326.0	847.3	546.4	412.9	372.5	360.8	353.0	353.6
2663.7	15°	2367.4	1728.5	1015.3	564.7	390.8	349.7	340.0	334.8	329.5	328.9
2710.6	17.5°	2347.8	1535.7	743.1	412.3	341.9	327.6	319.1	313.3	306.8	305.4
2751.0	20°	2318.5	1316.9	543.2	348.4	320.4	309.4	297.6	289.8	282.0	280.7
2776.4	22.5°	2264.5	1085.7	417.5	322.4	304.8	292.4	278.1	269.0	261.2	259.9
2764.0	25°	2164.2	868.8	351.7	306.1	291.1	276.1	260.5	248.1	241.0	239.7
2737.3	27.5°	2037.2	682.5	319.1	291.1	273.5	259.9	242.3	230.6	224.0	222.7
2702.1	30°	1887.4	525.6	300.2	274.2	252.7	241.0	225.3	215.6	211.7	211.7
2677.4	32.5°	1725.9	420.1	292.4	257.3	234.5	221.4	209.1	205.2	203.8	203.2
2691.1	35°	1574.1	364.7	288.5	243.6	218.2	205.8	200.6	201.2	203.8	203.8
2733.4	37.5°	1439.3	347.1	286.6	233.8	203.8	192.8	196.0	201.9	199.3	199.3
2807.6	40°	1317.5	349.1	285.3	226.6	192.1	185.6	192.1	187.6	181.1	180.4
2898.2	42.5°	1224.4	365.4	282.7	220.8	185.0	180.4	177.8	170.6	170.0	171.3
2992.0	45°	1156.7	379.7	282.0	218.2	177.1	168.7	165.4	158.3	171.3	174.5
3030.4	47.5°	1076.6	379.7	282.0	209.1	164.1	160.9	155.7	147.8	160.9	164.1
2993.9	50°	973.0	355.6	270.9	198.6	153.7	151.7	142.6	132.9	130.3	132.2
2908.6	52.5°	842.1	312.0	242.9	184.3	143.3	139.4	128.3	121.1	119.2	119.2
2755.5	55°	693.0	261.2	205.2	163.5	132.2	125.0	117.2	114.0	112.0	110.7
2541.3	57.5°	563.4	214.3	164.8	145.2	121.8	112.7	110.1	106.2	102.9	100.9
2362.2	60°	462.4	168.7	136.1	129.0	111.4	102.9	102.3	97.0	88.6	87.3
2214.3	62.5°	356.9	123.7	114.6	112.0	100.9	93.8	92.5	82.1	69.0	66.4
2004.6	65°	252.0	96.4	92.5	98.3	89.9	83.4	80.1	64.5	50.8	48.8
1677.7	67.5°	177.1	80.8	72.9	86.0	78.2	69.7	67.7	54.7	42.3	41.0
1268.7	70°	126.3	65.8	59.9	73.6	62.5	61.2	57.3	45.6	34.5	33.2
627.8	72.5°	89.2	50.1	46.2	63.8	43.0	52.8	46.9	35.2	26.1	24.7
213.6	75°	65.8	35.8	32.6	37.1	31.3	39.7	33.2	23.4	16.3	15.6
96.4	77.5°	48.2	22.8	19.5	18.2	18.2	24.7	18.2	9.8	7.2	6.5
48.8	80°	33.9	10.4	9.1	7.8	7.2	5.9	2.6	1.3	0.7	0.7
16.9	82.5°	20.2	4.6	4.6	3.3	2.0	0.0	0.0	0.0	0.0	0.0
6.5	85°	4.6	2.0	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
2.6	87.5°	0.7	0.7	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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