

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: P949809

Luminaire Tested: **GALN-SB4B-950-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949809  
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-SB4B-950-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

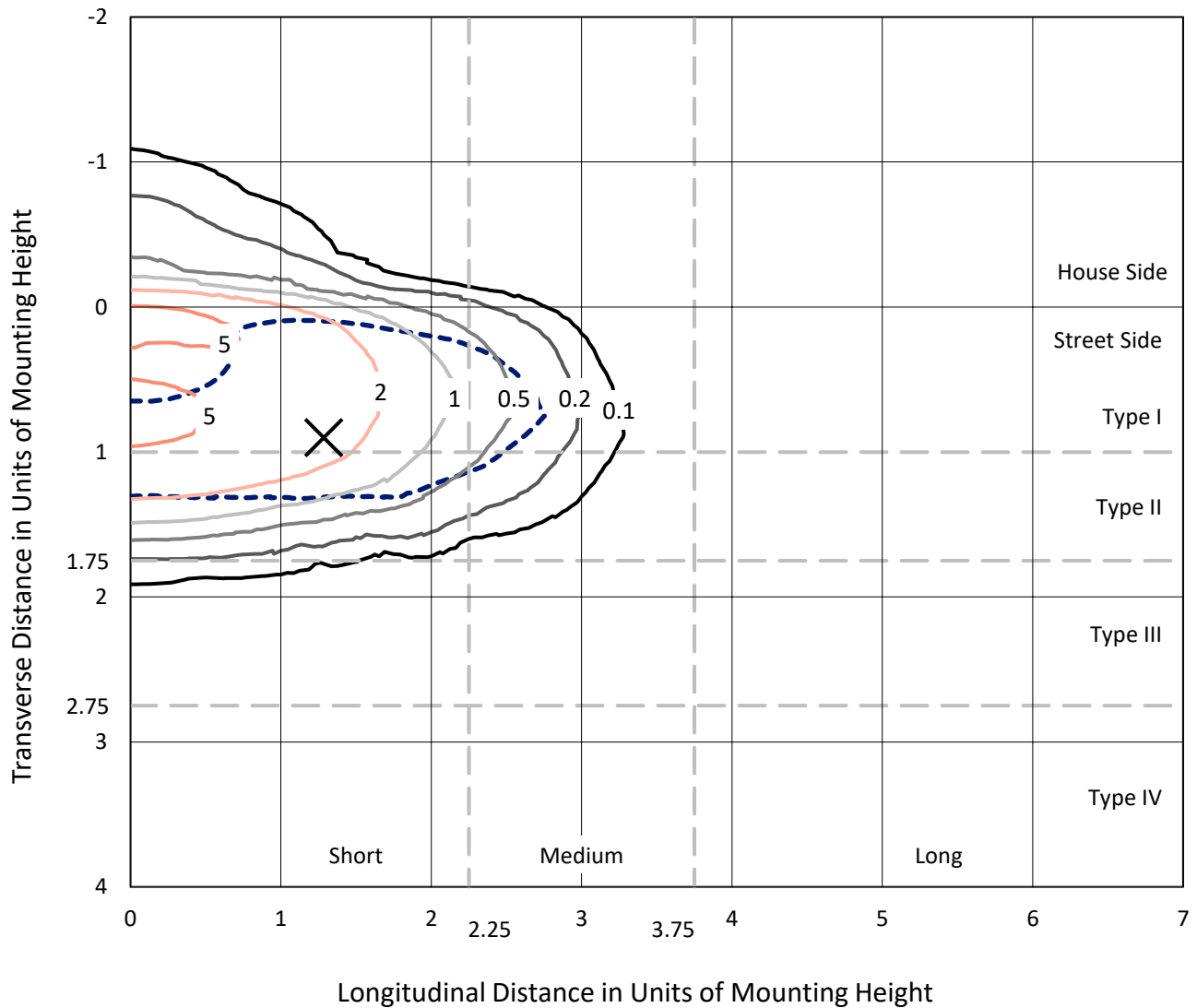
Lumens per Lamp: N/A  
Luminaire Lumens: 13386 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

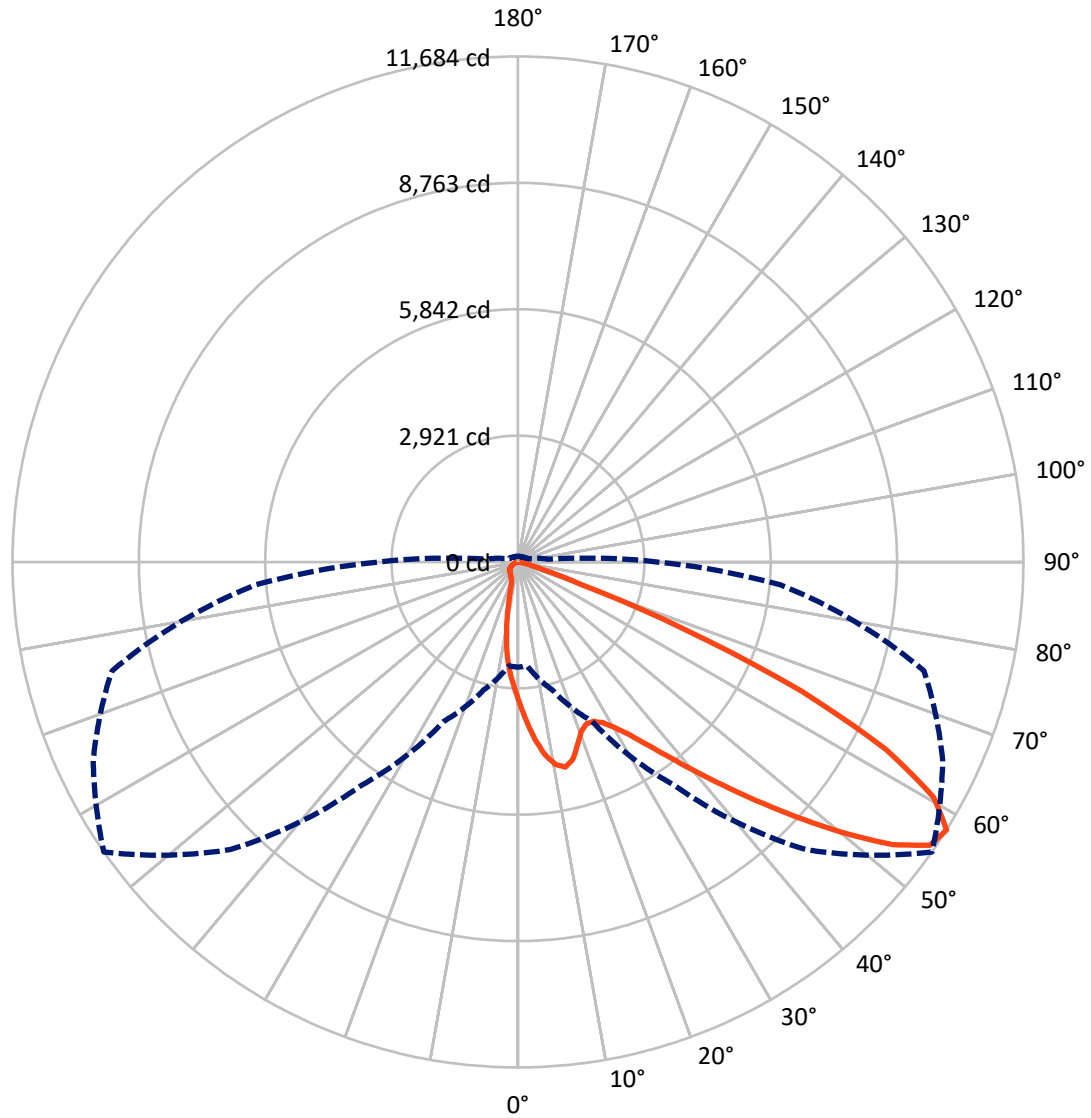
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	1045.4	0.0	1045.4
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	12340.6	0.0	12340.6
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	13386.0	0.0	13386.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.1	2.2
10°-20°	725.0	5.4
20°-30°	1159.9	8.7
30°-40°	1963.3	14.7
40°-50°	3223.3	24.1
50°-60°	3542.6	26.5
60°-70°	2032.1	15.2
70°-80°	415.2	3.1
80°-90°	24.5	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°	13386.0	100.0
0°-180°	13386.0	100.0

**Coefficient of Utilization**

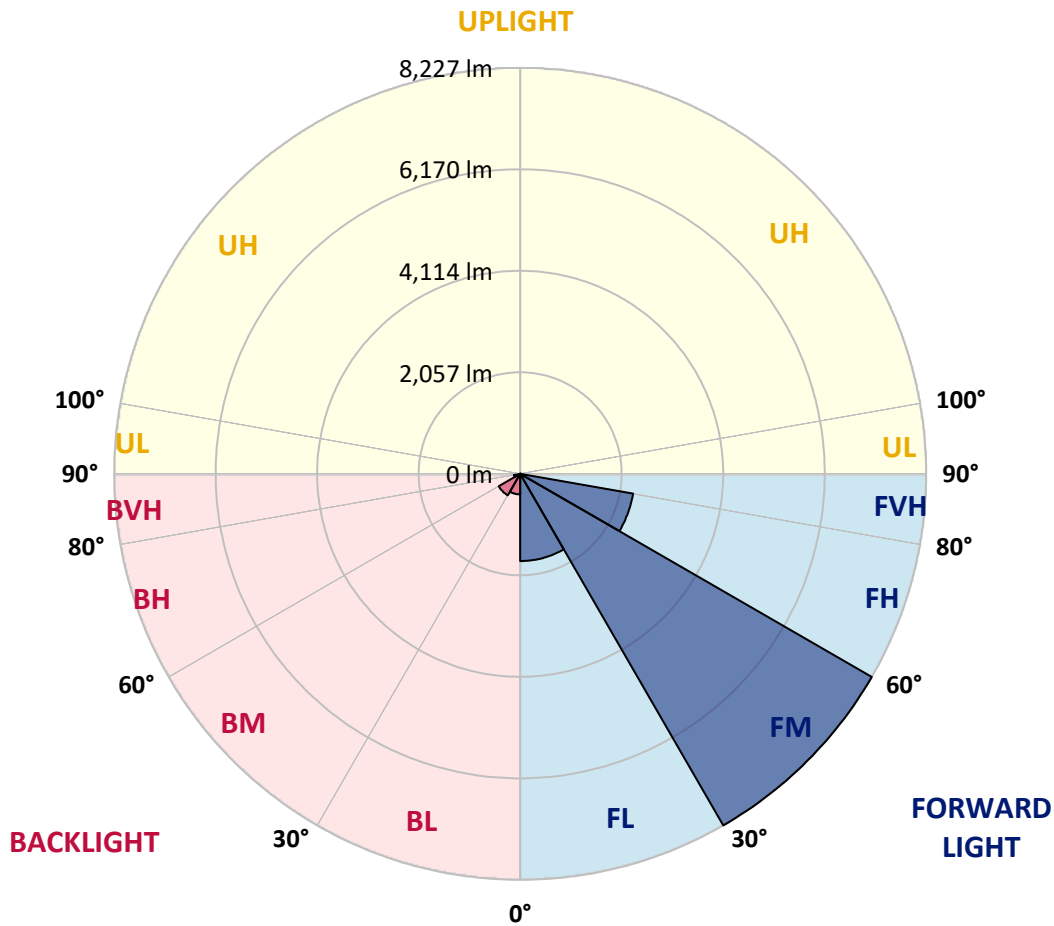


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1767.7	13.2			
FM (30°-60°)	8227.1	61.5			
FH (60°-80°)	2322.9	17.4			G2/5000
FVH (80°-90°)	22.8	0.2			G1/100
BL (0°-30°)	417.3	3.1	B1/500		
BM (30°-60°)	502.1	3.8	B1/1000		
BH (60°-80°)	124.3	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°	3225.7	3225.7	3225.7	3225.7	3225.7	3225.7	3225.7	3225.7	3225.7	3225.7
2.5°	4002.4	3952.1	3944.6	3934.7	3839.0	3767.2	3663.2	3549.3	3421.3	3290.9
5°	4623.9	4584.3	4576.9	4530.7	4421.7	4299.6	4114.7	3881.1	3642.5	3361.9
7.5°	4744.4	4737.0	4770.9	4769.2	4754.4	4657.8	4501.8	4223.6	3865.4	3449.4
10°	4207.1	4226.1	4326.8	4415.1	4653.7	4792.3	4758.5	4529.0	4094.9	3549.3
12.5°	3717.6	3695.4	3767.2	3867.0	4144.4	4557.1	4865.0	4784.1	4357.3	3662.3
15°	3410.6	3401.5	3442.0	3488.2	3699.5	4115.5	4741.1	4991.2	4609.9	3796.1
17.5°	3312.4	3304.9	3317.3	3328.9	3465.9	3787.8	4446.5	5118.4	4851.8	3948.8
20°	3392.4	3382.5	3380.9	3371.8	3428.7	3648.3	4179.9	5127.4	5068.8	4087.4
22.5°	3626.0	3614.5	3574.0	3537.7	3542.7	3667.3	4061.0	5036.6	5232.3	4217.0
25°	4049.5	4030.5	3946.3	3824.1	3746.5	3799.4	4079.2	4917.0	5388.3	4318.5
27.5°	4579.4	4554.6	4446.5	4264.9	4087.4	4023.0	4210.4	4834.4	5517.9	4396.1
30°	5098.5	5066.4	4959.9	4818.7	4559.6	4356.5	4447.3	4870.7	5672.2	4477.0
32.5°	5659.0	5628.5	5487.3	5312.3	5097.7	4824.5	4771.7	5048.2	5861.2	4590.1
35°	6368.0	6320.2	6119.6	5881.0	5653.2	5376.7	5210.8	5354.4	6113.0	4762.6
37.5°	7175.3	7110.9	6894.6	6565.3	6268.2	5958.6	5745.7	5775.4	6481.9	4993.7
40°	7936.3	7877.7	7677.9	7367.6	6994.5	6619.0	6392.0	6325.9	6991.2	5275.2
42.5°	8392.8	8339.9	8255.7	8124.5	7810.0	7427.0	7140.6	6997.8	7593.8	5612.0
45°	8418.3	8372.1	8485.2	8637.9	8576.0	8320.9	7971.8	7710.1	8198.8	5928.1
47.5°	8008.9	7977.6	8320.9	8854.2	9119.9	9227.2	8905.3	8363.0	8698.2	6155.1
50°	6893.0	6881.4	7588.0	8566.9	9327.1	10021.3	9890.0	8970.5	9085.3	6272.3
52.5°	5976.8	5934.7	6346.6	7647.4	9025.8	10438.9	10852.5	9566.5	9356.0	6294.6
55°	4533.1	4496.0	5012.7	6108.8	8054.3	10290.4	11556.5	10181.4	9550.0	6237.6
57.5°	2431.7	2408.5	3061.4	4066.0	6296.2	9398.9	11683.7	10831.8	9713.4	6086.6
60°	946.7	942.6	1186.9	1972.7	3826.6	7646.6	11042.3	11222.3	9815.8	5900.8
62.5°	572.8	585.2	624.8	885.7	1690.4	4750.2	9564.0	10778.2	9884.3	5730.8
65°	473.8	474.6	479.6	608.3	809.7	1987.6	7200.0	9317.2	9715.1	5427.9
67.5°	406.1	413.5	432.5	482.9	571.2	871.6	4145.2	7217.4	8685.8	4723.0
70°	320.3	330.2	354.1	397.0	440.8	545.6	1532.0	4802.2	6635.5	3560.0
72.5°	269.9	269.1	281.5	322.7	350.0	383.8	589.3	2690.8	3856.3	1699.5
75°	208.8	217.1	232.8	269.9	286.4	278.2	319.4	983.1	1381.7	515.1
77.5°	163.4	170.0	184.1	220.4	236.9	197.3	184.1	351.6	444.1	184.9
80°	73.5	79.2	125.5	162.6	193.1	136.2	99.9	179.9	197.3	84.2
82.5°	13.2	22.3	73.5	85.8	99.0	88.3	52.0	93.3	96.6	33.8
85°	0.8	1.7	25.6	31.4	39.6	28.9	15.7	37.1	32.2	11.6
87.5°	0.0	0.0	0.0	0.8	0.8	4.1	5.0	6.6	5.0	4.1
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°
3225.7	0°	3225.7	3225.7	3225.7	3225.7	3225.7	3225.7	3225.7	3225.7	3225.7	3225.7
3233.1	2.5°	3173.7	3056.5	2942.6	2849.3	2794.8	2702.4	2641.3	2631.4	2605.8	2628.1
3241.4	5°	3112.6	2903.0	2690.8	2501.0	2345.0	2143.6	1993.4	1929.8	1874.5	1893.5
3262.8	7.5°	3083.7	2752.7	2422.6	2098.2	1764.7	1442.8	1203.4	1103.6	1027.6	1038.4
3286.8	10°	3044.9	2596.7	2079.2	1584.0	1137.4	819.6	654.5	593.5	559.6	560.5
3322.3	12.5°	3015.2	2410.2	1680.5	1073.9	692.5	523.3	472.1	457.3	447.4	448.2
3375.9	15°	3000.4	2190.6	1286.8	715.6	495.2	443.2	430.9	424.3	417.7	416.8
3435.3	17.5°	2975.6	1946.3	941.8	522.5	433.3	415.2	404.5	397.0	388.8	387.1
3486.5	20°	2938.5	1669.0	688.4	441.6	406.1	392.1	377.2	367.3	357.4	355.8
3518.7	22.5°	2869.9	1376.0	529.1	408.6	386.3	370.6	352.4	340.9	331.0	329.3
3503.0	25°	2742.8	1101.1	445.7	387.9	369.0	350.0	330.2	314.5	305.4	303.8
3469.2	27.5°	2581.9	865.0	404.5	369.0	346.7	329.3	307.1	292.2	283.9	282.3
3424.6	30°	2392.0	666.1	380.5	347.5	320.3	305.4	285.6	273.2	268.3	268.3
3393.3	32.5°	2187.3	532.4	370.6	326.0	297.1	280.6	265.0	260.0	258.4	257.5
3410.6	35°	1995.0	462.2	365.7	308.7	276.5	260.8	254.2	255.1	258.4	258.4
3464.2	37.5°	1824.2	439.9	363.2	296.3	258.4	244.3	248.4	255.9	252.6	252.6
3558.3	40°	1669.8	442.4	361.5	287.2	243.5	235.2	243.5	237.7	229.5	228.6
3673.1	42.5°	1551.8	463.1	358.2	279.8	234.4	228.6	225.3	216.3	215.4	217.1
3791.9	45°	1465.9	481.2	357.4	276.5	224.5	213.8	209.7	200.6	217.1	221.2
3840.6	47.5°	1364.4	481.2	357.4	265.0	208.0	203.9	197.3	187.4	203.9	208.0
3794.4	50°	1233.2	450.7	343.4	251.7	194.8	192.3	180.8	168.4	165.1	167.6
3686.3	52.5°	1067.3	395.4	307.9	233.6	181.6	176.6	162.6	153.5	151.0	151.0
3492.3	55°	878.2	331.0	260.0	207.2	167.6	158.5	148.6	144.4	142.0	140.3
3220.7	57.5°	714.0	271.6	208.8	184.1	154.4	142.8	139.5	134.5	130.4	127.9
2993.8	60°	586.0	213.8	172.5	163.4	141.1	130.4	129.6	123.0	112.3	110.6
2806.4	62.5°	452.3	156.8	145.3	142.0	127.9	118.9	117.2	104.0	87.5	84.2
2540.6	65°	319.4	122.2	117.2	124.6	113.9	105.7	101.5	81.7	64.4	61.9
2126.3	67.5°	224.5	102.4	92.4	109.0	99.0	88.3	85.8	69.3	53.7	52.0
1607.9	70°	160.1	83.4	75.9	93.3	79.2	77.6	72.6	57.8	43.7	42.1
795.7	72.5°	113.1	63.6	58.6	80.9	54.5	66.9	59.4	44.6	33.0	31.4
270.7	75°	83.4	45.4	41.3	47.0	39.6	50.3	42.1	29.7	20.6	19.8
122.2	77.5°	61.1	28.9	24.8	23.1	23.1	31.4	23.1	12.4	9.1	8.3
61.9	80°	42.9	13.2	11.6	9.9	9.1	7.4	3.3	1.7	0.8	0.8
21.5	82.5°	25.6	5.8	5.8	4.1	2.5	0.0	0.0	0.0	0.0	0.0
8.3	85°	5.8	2.5	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
3.3	87.5°	0.8	0.8	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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