

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: P946806

Luminaire Tested: **GALN-SB2B-835-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946806  
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-SB2B-835-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

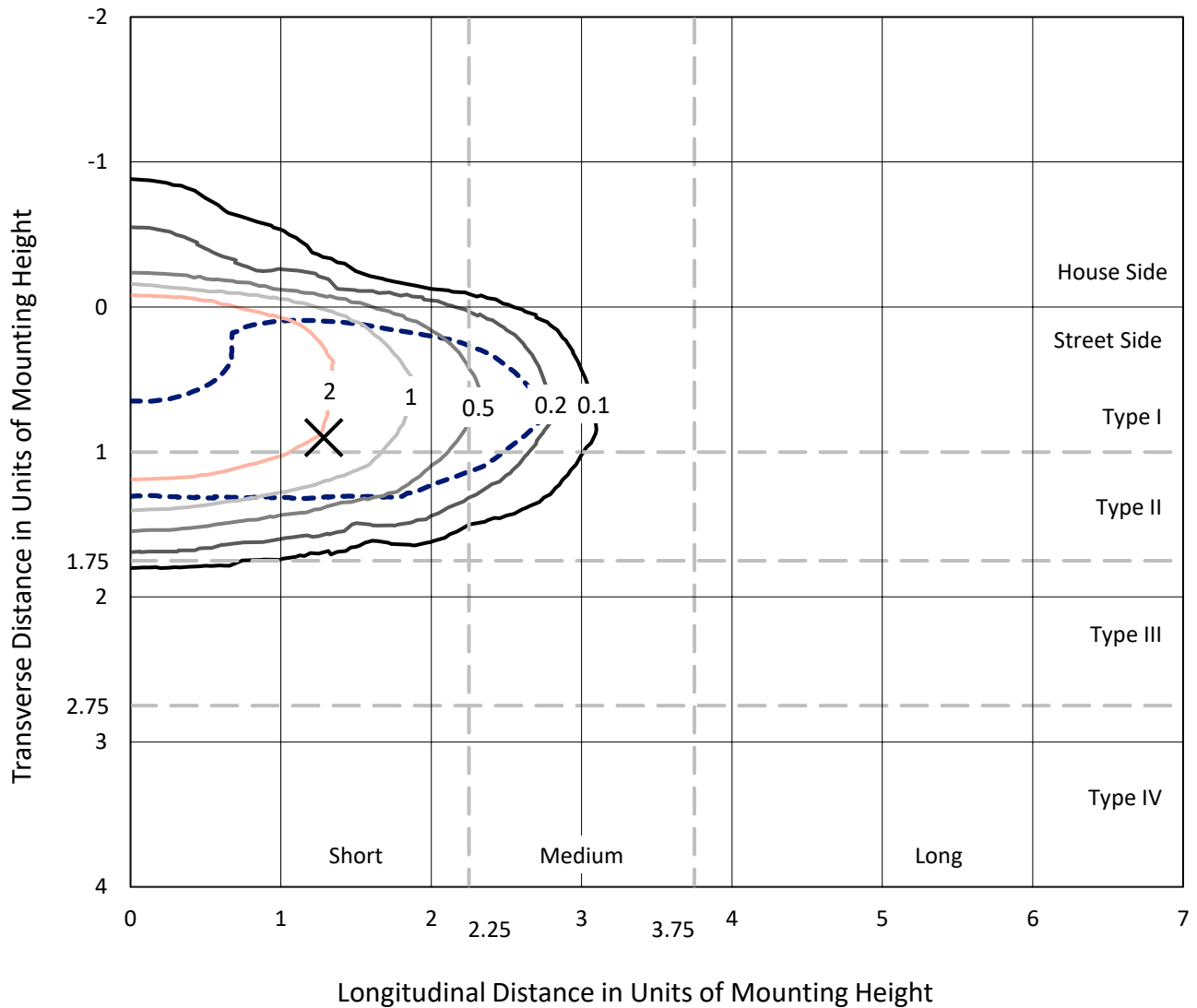
Lumens per Lamp: N/A  
Luminaire Lumens: 8906 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

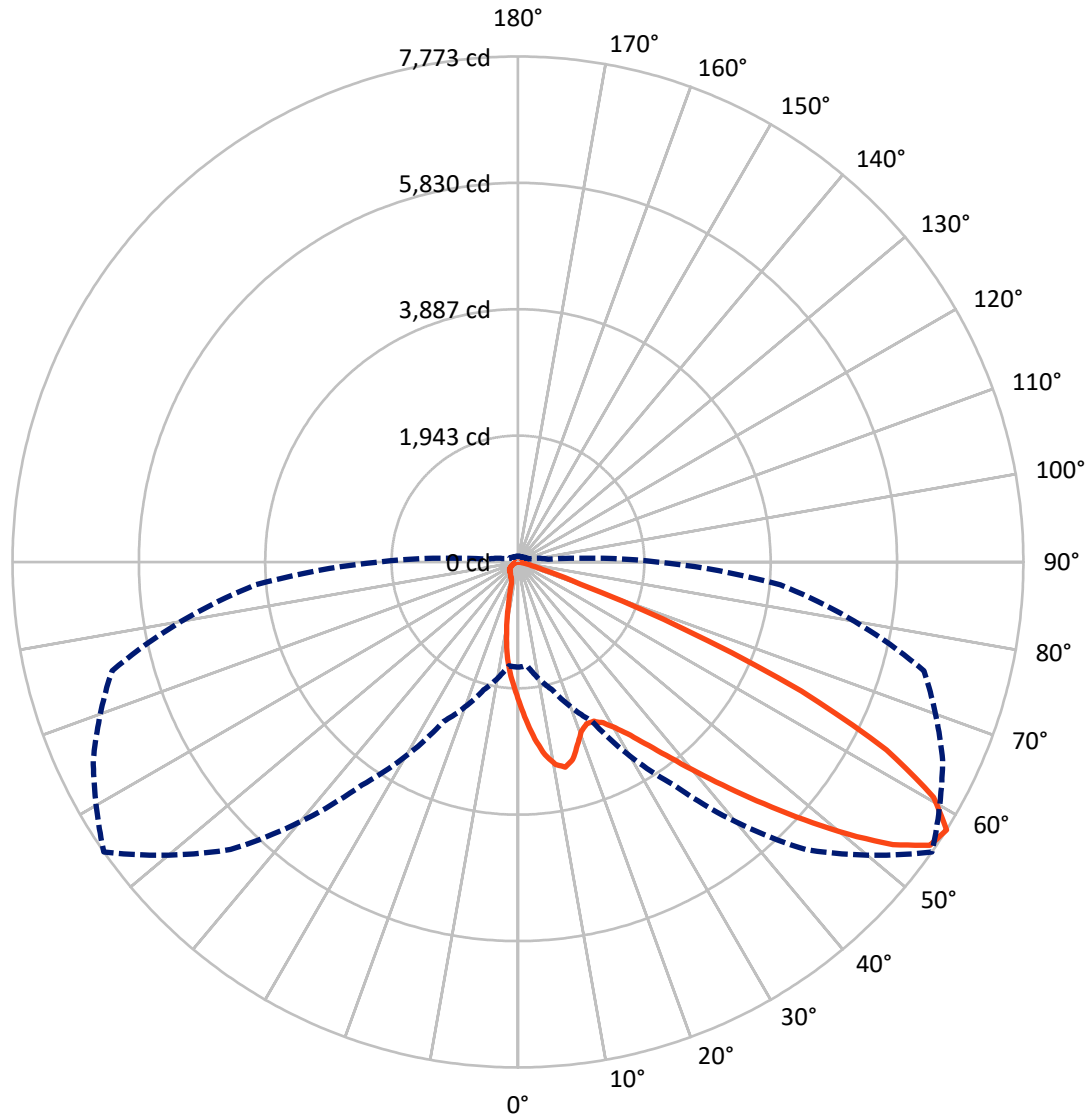
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	695.5	0.0	695.5
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	8210.5	0.0	8210.5
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	8906.0	0.0	8906.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.7	2.2
10°-20°	482.3	5.4
20°-30°	771.7	8.7
30°-40°	1306.2	14.7
40°-50°	2144.5	24.1
50°-60°	2357.0	26.5
60°-70°	1352.0	15.2
70°-80°	276.2	3.1
80°-90°	16.3	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°	8906.0	100.0
0°-180°	8906.0	100.0

**Coefficient of Utilization**



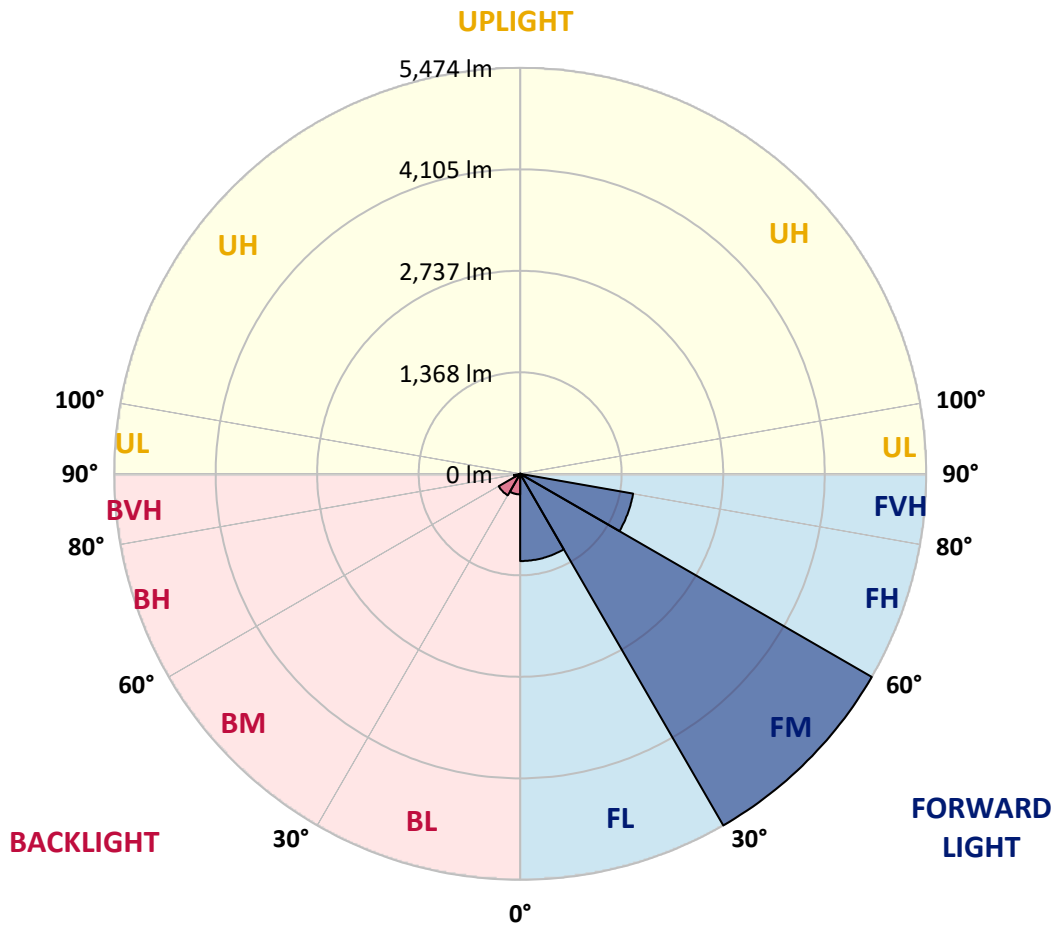
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1176.1	13.2			
FM	(30°-60°)	5473.7	61.5			
FH	(60°-80°)	1545.5	17.4			G1/1800
FVH	(80°-90°)	15.2	0.2			G1/100
BL	(0°-30°)	277.7	3.1	B1/500		
BM	(30°-60°)	334.0	3.8	B1/1000		
BH	(60°-80°)	82.7	0.9	B0/110		G0/110
BVH	(80°-90°)	1.1	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°	2146.1	2146.1	2146.1	2146.1	2146.1	2146.1	2146.1	2146.1	2146.1	2146.1
2.5°	2662.9	2629.4	2624.4	2617.9	2554.2	2506.4	2437.2	2361.4	2276.3	2189.5
5°	3076.4	3050.0	3045.1	3014.4	2941.9	2860.6	2737.6	2582.2	2423.5	2236.7
7.5°	3156.6	3151.6	3174.2	3173.1	3163.2	3098.9	2995.1	2810.1	2571.7	2294.9
10°	2799.1	2811.7	2878.7	2937.5	3096.2	3188.4	3165.9	3013.3	2724.4	2361.4
12.5°	2473.4	2458.6	2506.4	2572.8	2757.3	3031.9	3236.8	3182.9	2899.0	2436.6
15°	2269.1	2263.1	2290.0	2320.8	2461.3	2738.1	3154.4	3320.8	3067.1	2525.6
17.5°	2203.8	2198.8	2207.1	2214.8	2305.9	2520.1	2958.3	3405.4	3228.0	2627.2
20°	2257.1	2250.5	2249.4	2243.3	2281.2	2427.3	2781.0	3411.4	3372.4	2719.5
22.5°	2412.5	2404.8	2377.9	2353.7	2357.0	2439.9	2701.9	3351.0	3481.1	2805.7
25°	2694.2	2681.6	2625.5	2544.3	2492.6	2527.8	2714.0	3271.4	3584.9	2873.2
27.5°	3046.8	3030.3	2958.3	2837.5	2719.5	2676.6	2801.3	3216.4	3671.2	2924.8
30°	3392.2	3370.8	3299.9	3206.0	3033.6	2898.5	2958.9	3240.6	3773.8	2978.7
32.5°	3765.1	3744.7	3650.8	3534.4	3391.6	3209.9	3174.7	3358.7	3899.6	3053.9
35°	4236.8	4204.9	4071.5	3912.8	3761.2	3577.2	3466.9	3562.4	4067.1	3168.7
37.5°	4773.9	4731.0	4587.2	4368.0	4170.3	3964.4	3822.7	3842.5	4312.6	3322.4
40°	5280.2	5241.2	5108.3	4901.8	4653.6	4403.7	4252.7	4208.8	4651.4	3509.7
42.5°	5583.9	5548.7	5492.7	5405.4	5196.2	4941.4	4750.8	4655.8	5052.3	3733.8
45°	5600.9	5570.2	5645.4	5747.0	5705.8	5536.1	5303.8	5129.7	5454.8	3944.1
47.5°	5328.5	5307.7	5536.1	5890.9	6067.7	6139.1	5924.9	5564.1	5787.1	4095.1
50°	4586.1	4578.4	5048.4	5699.8	6205.5	6667.4	6580.1	5968.3	6044.6	4173.1
52.5°	3976.5	3948.5	4222.5	5088.0	6005.1	6945.3	7220.4	6364.8	6224.8	4187.9
55°	3016.0	2991.3	3335.1	4064.4	5358.7	6846.4	7688.8	6773.9	6353.8	4150.0
57.5°	1617.8	1602.5	2036.8	2705.2	4189.0	6253.3	7773.4	7206.7	6462.5	4049.5
60°	629.9	627.1	789.7	1312.5	2545.9	5087.4	7346.7	7466.4	6530.6	3926.0
62.5°	381.1	389.4	415.7	589.3	1124.7	3160.4	6363.1	7171.0	6576.2	3812.8
65°	315.2	315.8	319.1	404.7	538.7	1322.4	4790.3	6198.9	6463.6	3611.3
67.5°	270.2	275.1	287.8	321.3	380.0	579.9	2757.9	4801.9	5778.8	3142.3
70°	213.1	219.7	235.6	264.1	293.3	363.0	1019.2	3195.0	4414.7	2368.5
72.5°	179.6	179.0	187.3	214.7	232.8	255.4	392.1	1790.3	2565.7	1130.7
75°	138.9	144.4	154.9	179.6	190.6	185.1	212.5	654.1	919.3	342.7
77.5°	108.7	113.1	122.5	146.6	157.6	131.2	122.5	233.9	295.4	123.0
80°	48.9	52.7	83.5	108.2	128.5	90.6	66.4	119.7	131.2	56.0
82.5°	8.8	14.8	48.9	57.1	65.9	58.8	34.6	62.1	64.3	22.5
85°	0.5	1.1	17.0	20.9	26.4	19.2	10.4	24.7	21.4	7.7
87.5°	0.0	0.0	0.0	0.5	0.5	2.7	3.3	4.4	3.3	2.7
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°
2146.1	0°	2146.1	2146.1	2146.1	2146.1	2146.1	2146.1	2146.1	2146.1	2146.1	2146.1
2151.1	2.5°	2111.5	2033.5	1957.8	1895.7	1859.5	1798.0	1757.3	1750.7	1733.7	1748.5
2156.6	5°	2070.9	1931.4	1790.3	1664.0	1560.2	1426.2	1326.2	1283.9	1247.1	1259.8
2170.8	7.5°	2051.7	1831.5	1611.8	1396.0	1174.1	959.9	800.7	734.2	683.7	690.8
2186.8	10°	2025.9	1727.7	1383.3	1053.8	756.7	545.3	435.5	394.8	372.3	372.9
2210.4	12.5°	2006.1	1603.6	1118.1	714.5	460.7	348.2	314.1	304.2	297.6	298.2
2246.1	15°	1996.2	1457.5	856.1	476.1	329.5	294.9	286.7	282.3	277.9	277.3
2285.6	17.5°	1979.7	1294.9	626.6	347.6	288.3	276.2	269.1	264.1	258.7	257.6
2319.7	20°	1955.0	1110.4	458.0	293.8	270.2	260.9	251.0	244.4	237.8	236.7
2341.1	22.5°	1909.4	915.5	352.0	271.8	257.0	246.6	234.5	226.8	220.2	219.1
2330.6	25°	1824.9	732.6	296.5	258.1	245.5	232.8	219.7	209.2	203.2	202.1
2308.1	27.5°	1717.8	575.5	269.1	245.5	230.6	219.1	204.3	194.4	188.9	187.8
2278.5	30°	1591.5	443.2	253.2	231.2	213.1	203.2	190.0	181.8	178.5	178.5
2257.6	32.5°	1455.3	354.2	246.6	216.9	197.7	186.7	176.3	173.0	171.9	171.3
2269.1	35°	1327.3	307.5	243.3	205.4	184.0	173.5	169.1	169.7	171.9	171.9
2304.8	37.5°	1213.6	292.7	241.6	197.1	171.9	162.6	165.3	170.2	168.0	168.0
2367.4	40°	1111.0	294.4	240.5	191.1	162.0	156.5	162.0	158.2	152.7	152.1
2443.8	42.5°	1032.4	308.1	238.3	186.2	156.0	152.1	149.9	143.9	143.3	144.4
2522.9	45°	975.3	320.2	237.8	184.0	149.4	142.2	139.5	133.4	144.4	147.2
2555.3	47.5°	907.8	320.2	237.8	176.3	138.4	135.6	131.2	124.7	135.6	138.4
2524.5	50°	820.4	299.8	228.5	167.5	129.6	128.0	120.3	112.0	109.8	111.5
2452.6	52.5°	710.1	263.0	204.8	155.4	120.8	117.5	108.2	102.1	100.5	100.5
2323.5	55°	584.3	220.2	173.0	137.8	111.5	105.4	98.8	96.1	94.5	93.4
2142.8	57.5°	475.0	180.7	138.9	122.5	102.7	95.0	92.8	89.5	86.8	85.1
1991.8	60°	389.9	142.2	114.8	108.7	93.9	86.8	86.2	81.8	74.7	73.6
1867.2	62.5°	300.9	104.3	96.7	94.5	85.1	79.1	78.0	69.2	58.2	56.0
1690.3	65°	212.5	81.3	78.0	82.9	75.8	70.3	67.5	54.4	42.8	41.2
1414.6	67.5°	149.4	68.1	61.5	72.5	65.9	58.8	57.1	46.1	35.7	34.6
1069.8	70°	106.5	55.5	50.5	62.1	52.7	51.6	48.3	38.4	29.1	28.0
529.4	72.5°	75.2	42.3	39.0	53.8	36.2	44.5	39.5	29.7	22.0	20.9
180.1	75°	55.5	30.2	27.5	31.3	26.4	33.5	28.0	19.8	13.7	13.2
81.3	77.5°	40.6	19.2	16.5	15.4	15.4	20.9	15.4	8.2	6.0	5.5
41.2	80°	28.6	8.8	7.7	6.6	6.0	4.9	2.2	1.1	0.5	0.5
14.3	82.5°	17.0	3.8	3.8	2.7	1.6	0.0	0.0	0.0	0.0	0.0
5.5	85°	3.8	1.6	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0
2.2	87.5°	0.5	0.5	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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