

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: P946764

Luminaire Tested: **GALN-SB2B-827-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946764  
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-827-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

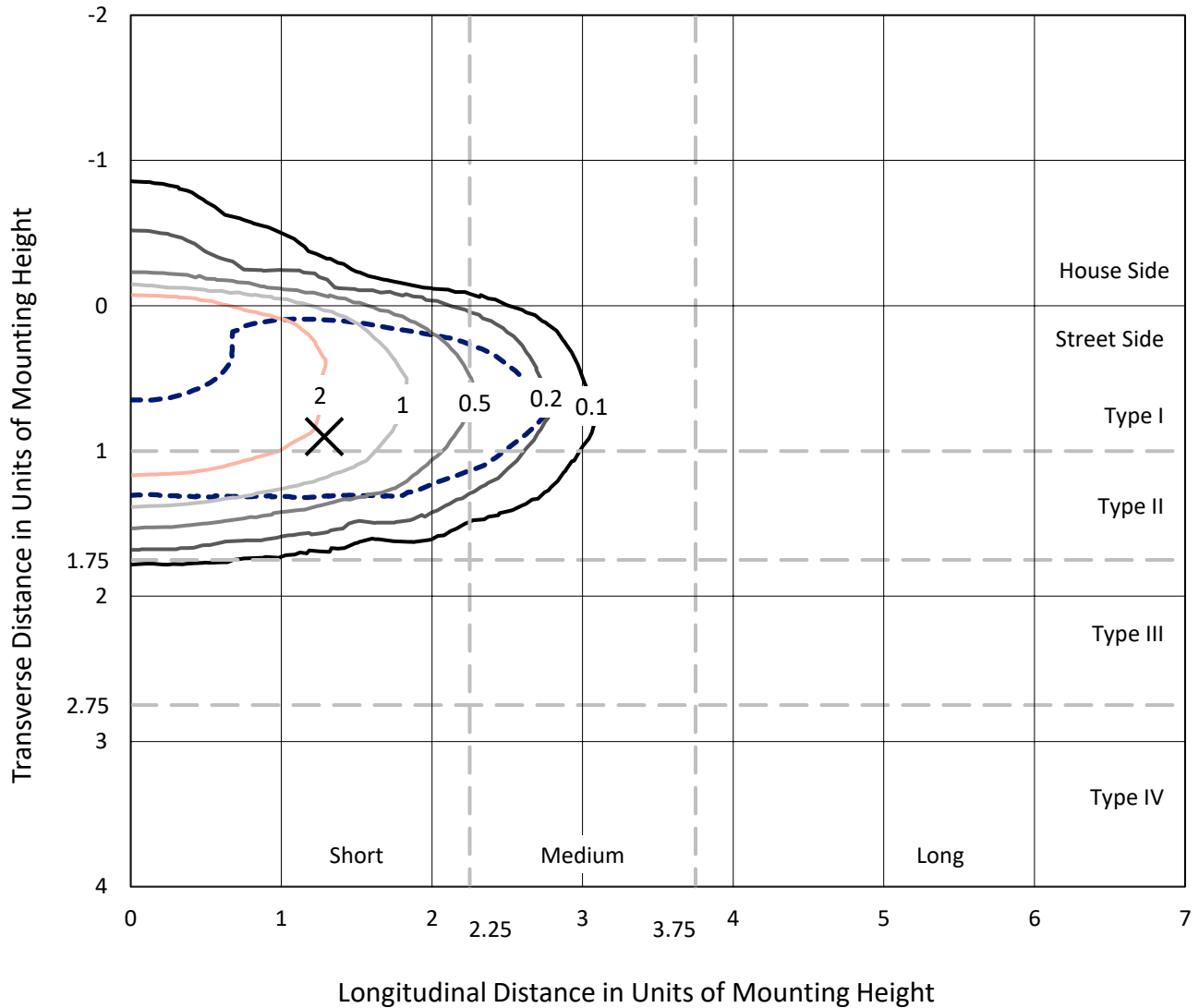
Lumens per Lamp: N/A  
Luminaire Lumens: 8349 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

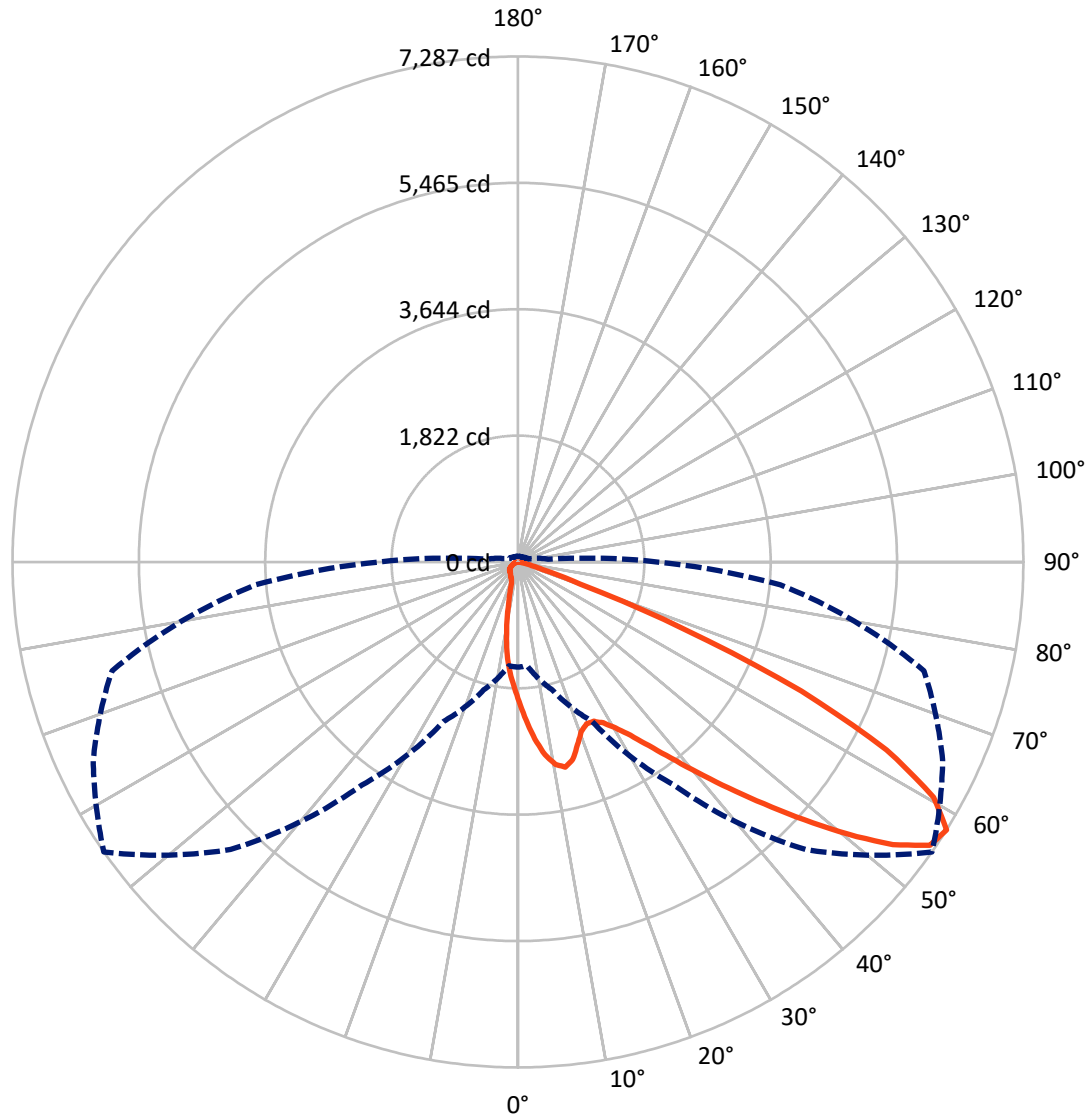
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	652.0	0.0	652.0
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	7697.0	0.0	7697.0
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	8349.0	0.0	8349.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.2	2.2
10°-20°	452.2	5.4
20°-30°	723.5	8.7
30°-40°	1224.5	14.7
40°-50°	2010.4	24.1
50°-60°	2209.6	26.5
60°-70°	1267.4	15.2
70°-80°	259.0	3.1
80°-90°	15.3	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°	8349.0	100.0
0°-180°	8349.0	100.0

**Coefficient of Utilization**



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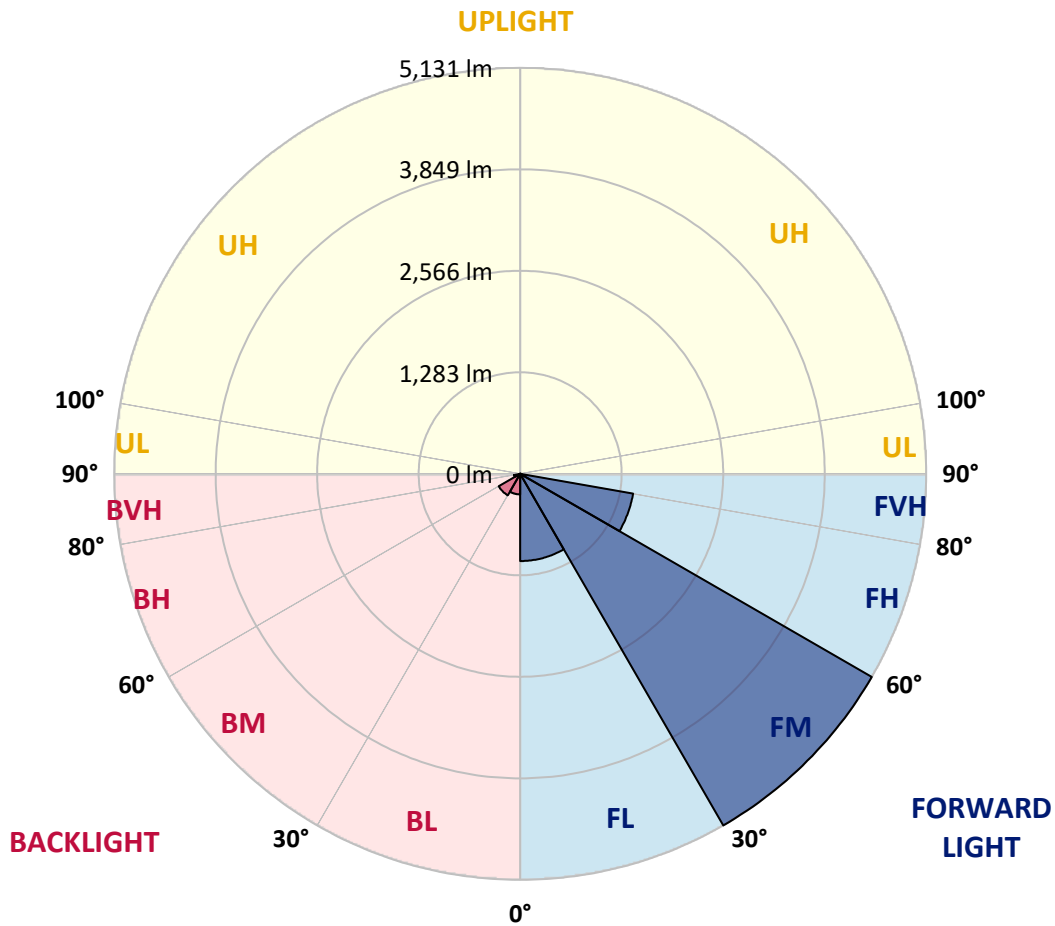
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1102.5	13.2			
FM (30°-60°)	5131.4	61.5			
FH (60°-80°)	1448.8	17.4			G1/1800
FVH (80°-90°)	14.2	0.2			G1/100
BL (0°-30°)	260.3	3.1	B1/500		
BM (30°-60°)	313.1	3.8	B1/1000		
BH (60°-80°)	77.5	0.9	B0/110		G0/110
BVH (80°-90°)	1.0	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°	2011.9	2011.9	2011.9	2011.9	2011.9	2011.9	2011.9	2011.9	2011.9	2011.9
2.5°	2496.3	2464.9	2460.3	2454.1	2394.4	2349.6	2284.8	2213.7	2133.9	2052.6
5°	2884.0	2859.3	2854.7	2825.8	2757.9	2681.7	2566.4	2420.7	2271.9	2096.8
7.5°	2959.2	2954.5	2975.6	2974.6	2965.3	2905.1	2807.8	2634.3	2410.9	2151.4
10°	2624.0	2635.9	2698.7	2753.8	2902.5	2989.0	2967.9	2824.8	2554.0	2213.7
12.5°	2318.7	2304.8	2349.6	2411.9	2584.9	2842.3	3034.3	2983.9	2717.7	2284.2
15°	2127.2	2121.6	2146.8	2175.6	2307.4	2566.9	2957.1	3113.1	2875.3	2367.6
17.5°	2066.0	2061.3	2069.0	2076.3	2161.7	2362.5	2773.3	3192.4	3026.1	2462.9
20°	2115.9	2109.7	2108.7	2103.0	2138.5	2275.5	2607.0	3198.0	3161.5	2549.4
22.5°	2261.6	2254.4	2229.2	2206.5	2209.6	2287.3	2532.9	3141.4	3263.4	2630.2
25°	2525.7	2513.8	2461.3	2385.1	2336.8	2369.7	2544.2	3066.8	3360.7	2693.5
27.5°	2856.2	2840.8	2773.3	2660.1	2549.4	2509.2	2626.1	3015.3	3441.5	2741.9
30°	3180.0	3159.9	3093.5	3005.5	2843.8	2717.2	2773.8	3037.9	3537.8	2792.4
32.5°	3529.6	3510.5	3422.5	3313.4	3179.5	3009.1	2976.2	3148.6	3655.7	2862.9
35°	3971.8	3942.0	3816.9	3668.1	3526.0	3353.5	3250.0	3339.6	3812.7	2970.5
37.5°	4475.3	4435.1	4300.3	4094.9	3909.5	3716.5	3583.6	3602.2	4042.9	3114.6
40°	4950.0	4913.4	4788.8	4595.3	4362.6	4128.3	3986.7	3945.6	4360.5	3290.2
42.5°	5234.7	5201.7	5149.2	5067.3	4871.2	4632.3	4453.7	4364.6	4736.3	3500.2
45°	5250.6	5221.8	5292.3	5387.6	5348.9	5189.9	4972.1	4808.9	5113.7	3697.4
47.5°	4995.3	4975.7	5189.9	5522.4	5688.2	5755.1	5554.4	5216.1	5425.1	3839.0
50°	4299.2	4292.0	4732.7	5343.3	5817.4	6250.4	6168.5	5595.0	5666.6	3912.1
52.5°	3727.8	3701.5	3958.4	4769.8	5629.5	6510.9	6768.8	5966.7	5835.4	3926.0
55°	2827.4	2804.2	3126.5	3810.2	5023.6	6418.2	7207.9	6350.3	5956.4	3890.5
57.5°	1516.6	1502.2	1909.5	2536.0	3927.0	5862.2	7287.2	6755.9	6058.4	3796.3
60°	590.5	587.9	740.3	1230.4	2386.7	4769.3	6887.2	6999.4	6122.2	3680.4
62.5°	357.3	365.0	389.7	552.4	1054.3	2962.8	5965.2	6722.5	6164.9	3574.4
65°	295.5	296.0	299.1	379.4	505.0	1239.7	4490.7	5811.2	6059.4	3385.4
67.5°	253.3	257.9	269.8	301.2	356.3	543.6	2585.4	4501.6	5417.4	2945.8
70°	199.7	205.9	220.9	247.6	274.9	340.3	955.5	2995.2	4138.6	2220.4
72.5°	168.3	167.8	175.6	201.3	218.3	239.4	367.6	1678.3	2405.2	1060.0
75°	130.2	135.4	145.2	168.3	178.6	173.5	199.2	613.1	861.8	321.2
77.5°	101.9	106.1	114.8	137.5	147.8	123.0	114.8	219.3	277.0	115.3
80°	45.8	49.4	78.3	101.4	120.5	84.9	62.3	112.2	123.0	52.5
82.5°	8.2	13.9	45.8	53.5	61.8	55.1	32.4	58.2	60.2	21.1
85°	0.5	1.0	16.0	19.6	24.7	18.0	9.8	23.2	20.1	7.2
87.5°	0.0	0.0	0.0	0.5	0.5	2.6	3.1	4.1	3.1	2.6
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°
2011.9	0°	2011.9	2011.9	2011.9	2011.9	2011.9	2011.9	2011.9	2011.9	2011.9	2011.9
2016.5	2.5°	1979.5	1906.4	1835.3	1777.1	1743.2	1685.5	1647.4	1641.2	1625.3	1639.2
2021.7	5°	1941.4	1810.6	1678.3	1559.9	1462.6	1337.0	1243.3	1203.6	1169.1	1181.0
2035.1	7.5°	1923.4	1716.9	1511.0	1308.7	1100.7	899.9	750.6	688.3	640.9	647.6
2050.0	10°	1899.2	1619.6	1296.8	987.9	709.4	511.2	408.2	370.2	349.0	349.6
2072.1	12.5°	1880.6	1503.3	1048.2	669.8	431.9	326.4	294.5	285.2	279.0	279.5
2105.6	15°	1871.4	1366.3	802.6	446.3	308.9	276.5	268.7	264.6	260.5	260.0
2142.7	17.5°	1855.9	1213.9	587.4	325.9	270.3	259.0	252.3	247.6	242.5	241.4
2174.6	20°	1832.7	1041.0	429.4	275.4	253.3	244.5	235.3	229.1	222.9	221.9
2194.7	22.5°	1790.0	858.2	330.0	254.8	240.9	231.2	219.8	212.6	206.4	205.4
2184.9	25°	1710.7	686.8	278.0	242.0	230.1	218.3	205.9	196.1	190.5	189.5
2163.8	27.5°	1610.3	539.5	252.3	230.1	216.2	205.4	191.5	182.2	177.1	176.1
2136.0	30°	1491.9	415.5	237.3	216.7	199.7	190.5	178.1	170.4	167.3	167.3
2116.4	32.5°	1364.3	332.1	231.2	203.4	185.3	175.0	165.3	162.2	161.1	160.6
2127.2	35°	1244.3	288.3	228.1	192.5	172.5	162.7	158.6	159.1	161.1	161.1
2160.7	37.5°	1137.7	274.4	226.5	184.8	161.1	152.4	155.0	159.6	157.5	157.5
2219.4	40°	1041.5	275.9	225.5	179.2	151.9	146.7	151.9	148.3	143.1	142.6
2290.9	42.5°	967.9	288.8	223.4	174.5	146.2	142.6	140.5	134.9	134.4	135.4
2365.1	45°	914.3	300.1	222.9	172.5	140.0	133.3	130.8	125.1	135.4	138.0
2395.4	47.5°	851.0	300.1	222.9	165.3	129.7	127.2	123.0	116.9	127.2	129.7
2366.6	50°	769.1	281.1	214.2	157.0	121.5	120.0	112.7	105.0	103.0	104.5
2299.2	52.5°	665.7	246.6	192.0	145.7	113.3	110.2	101.4	95.8	94.2	94.2
2178.2	55°	547.8	206.4	162.2	129.2	104.5	98.8	92.7	90.1	88.5	87.5
2008.8	57.5°	445.3	169.4	130.2	114.8	96.3	89.1	87.0	83.9	81.3	79.8
1867.2	60°	365.5	133.3	107.6	101.9	88.0	81.3	80.8	76.7	70.0	69.0
1750.4	62.5°	282.1	97.8	90.6	88.5	79.8	74.1	73.1	64.9	54.6	52.5
1584.6	65°	199.2	76.2	73.1	77.7	71.0	65.9	63.3	51.0	40.2	38.6
1326.2	67.5°	140.0	63.8	57.7	68.0	61.8	55.1	53.5	43.2	33.5	32.4
1002.9	70°	99.9	52.0	47.4	58.2	49.4	48.4	45.3	36.0	27.3	26.3
496.3	72.5°	70.5	39.6	36.6	50.5	34.0	41.7	37.1	27.8	20.6	19.6
168.9	75°	52.0	28.3	25.7	29.3	24.7	31.4	26.3	18.5	12.9	12.4
76.2	77.5°	38.1	18.0	15.4	14.4	14.4	19.6	14.4	7.7	5.7	5.1
38.6	80°	26.8	8.2	7.2	6.2	5.7	4.6	2.1	1.0	0.5	0.5
13.4	82.5°	16.0	3.6	3.6	2.6	1.5	0.0	0.0	0.0	0.0	0.0
5.1	85°	3.6	1.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
2.1	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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