

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: P948003

Luminaire Tested: **GALN-SB3A-940-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948003  
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-940-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

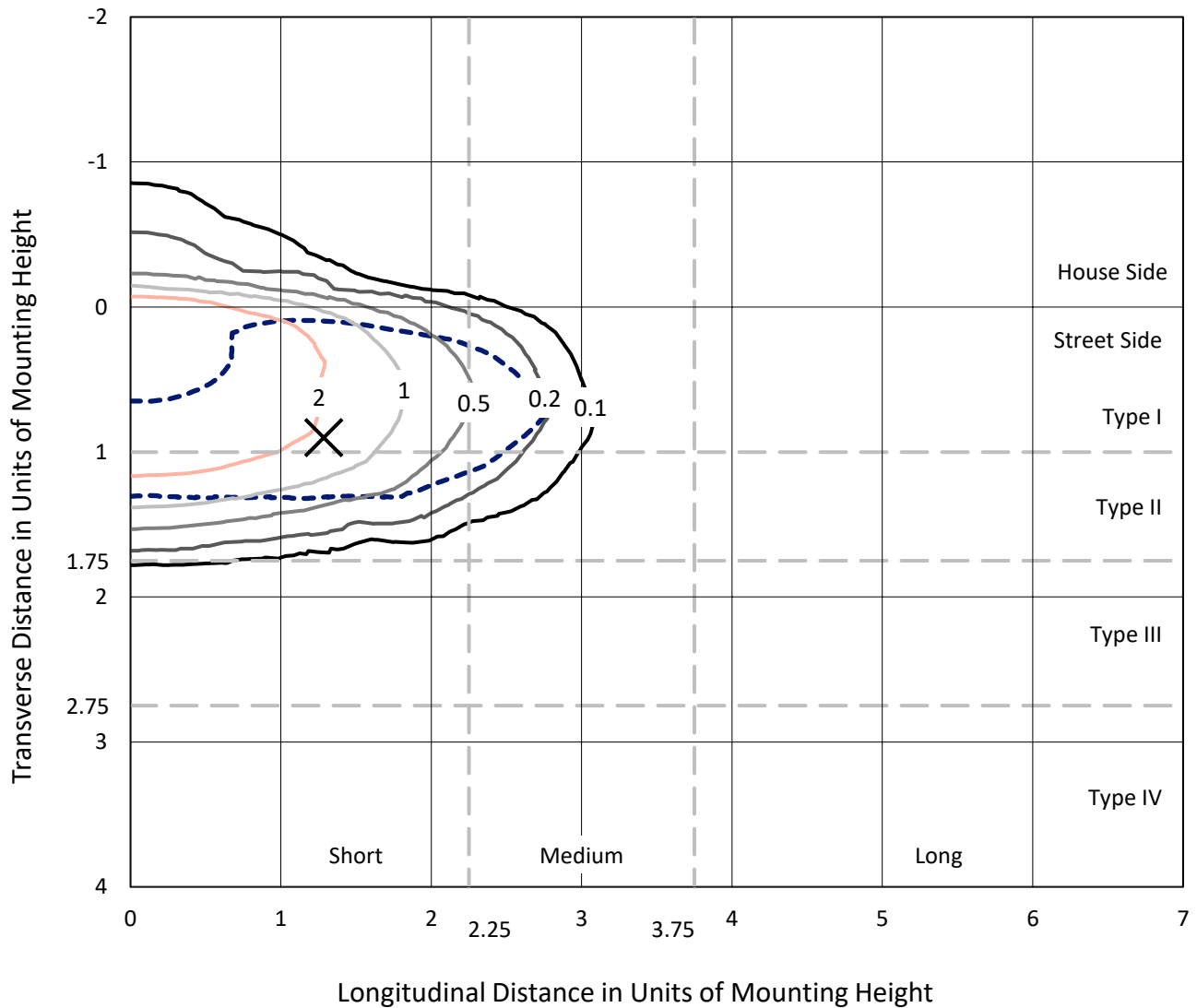
Lumens per Lamp: N/A  
Luminaire Lumens: 8315 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

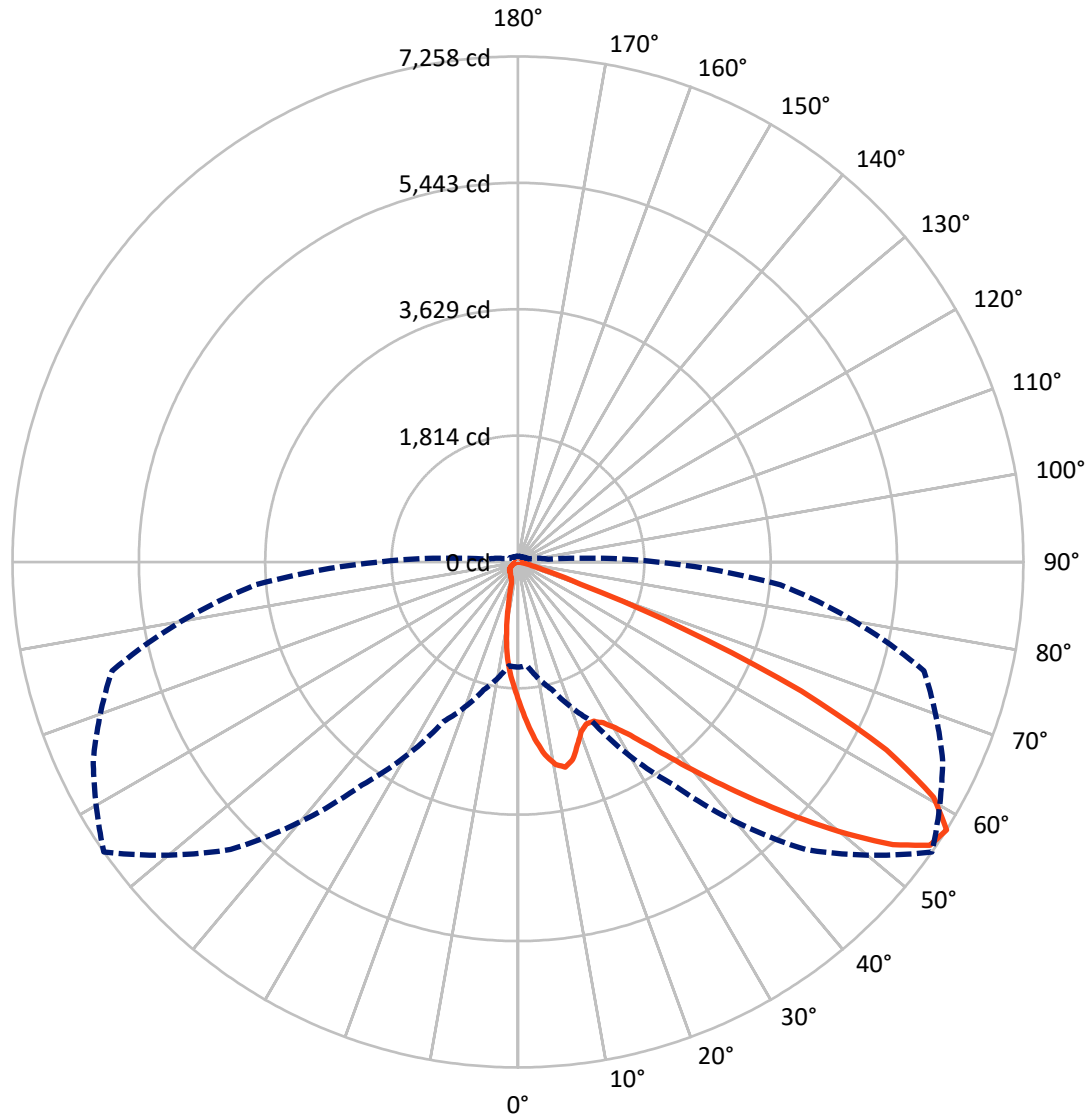
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	649.4	0.0	649.4
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	7665.6	0.0	7665.6
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	8315.0	0.0	8315.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.4	2.2
10°-20°	450.3	5.4
20°-30°	720.5	8.7
30°-40°	1219.5	14.7
40°-50°	2002.2	24.1
50°-60°	2200.6	26.5
60°-70°	1262.3	15.2
70°-80°	257.9	3.1
80°-90°	15.2	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°	8315.0	100.0
0°-180°	8315.0	100.0

**Coefficient of Utilization**



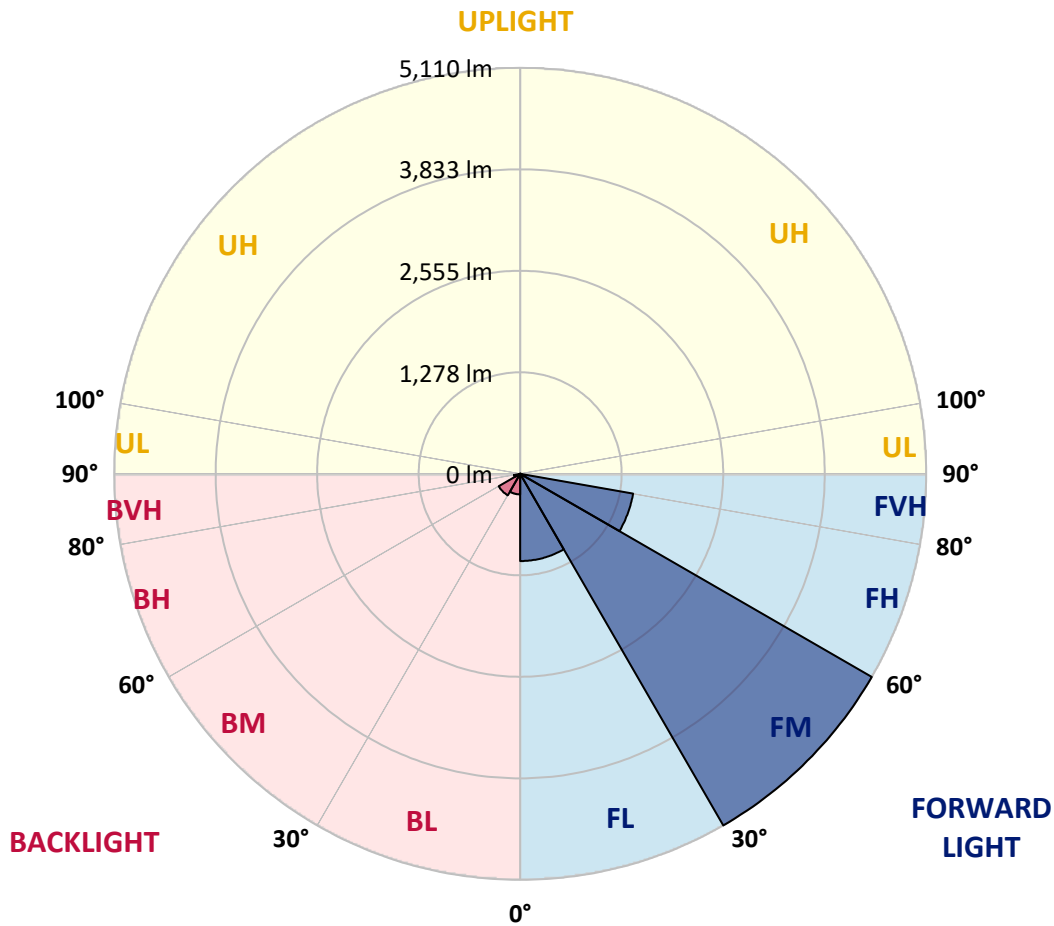
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1098.0	13.2			
FM (30°-60°)	5110.5	61.5			
FH (60°-80°)	1442.9	17.4			G1/1800
FVH (80°-90°)	14.2	0.2			G1/100
BL (0°-30°)	259.2	3.1	B1/500		
BM (30°-60°)	311.9	3.8	B1/1000		
BH (60°-80°)	77.2	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°	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7
2.5°	2486.2	2454.9	2450.3	2444.1	2384.7	2340.1	2275.5	2204.7	2125.2	2044.2
5°	2872.3	2847.6	2843.0	2814.3	2746.6	2670.8	2555.9	2410.8	2262.6	2088.3
7.5°	2947.1	2942.5	2963.5	2962.5	2953.3	2893.3	2796.4	2623.6	2401.1	2142.7
10°	2613.3	2625.1	2687.7	2742.5	2890.7	2976.9	2955.8	2813.3	2543.6	2204.7
12.5°	2309.3	2295.4	2340.1	2402.1	2574.4	2830.7	3022.0	2971.7	2706.6	2274.9
15°	2118.6	2112.9	2138.0	2166.8	2298.0	2556.4	2945.1	3100.4	2863.5	2358.0
17.5°	2057.5	2052.9	2060.6	2067.8	2152.9	2352.9	2762.0	3179.4	3013.8	2452.9
20°	2107.3	2101.1	2100.1	2094.5	2129.8	2266.2	2596.4	3185.0	3148.6	2539.0
22.5°	2252.4	2245.2	2220.1	2197.5	2200.6	2278.0	2522.6	3128.6	3250.1	2619.5
25°	2515.4	2503.6	2451.3	2375.4	2327.2	2360.1	2533.9	3054.3	3347.0	2682.6
27.5°	2844.6	2829.2	2762.0	2649.2	2539.0	2499.0	2615.4	3003.0	3427.5	2730.7
30°	3167.1	3147.1	3080.9	2993.3	2832.3	2706.1	2762.5	3025.6	3523.4	2781.0
32.5°	3515.2	3496.2	3408.6	3299.9	3166.6	2996.8	2964.0	3135.8	3640.8	2851.2
35°	3955.6	3925.9	3801.3	3653.1	3511.6	3339.9	3236.8	3326.0	3797.2	2958.4
37.5°	4457.1	4417.1	4282.8	4078.2	3893.6	3701.3	3569.0	3587.5	4026.4	3102.0
40°	4929.8	4893.4	4769.3	4576.5	4344.8	4111.5	3970.5	3929.5	4342.7	3276.8
42.5°	5213.3	5180.5	5128.2	5046.7	4851.4	4613.5	4435.5	4346.8	4717.0	3486.0
45°	5229.2	5200.5	5270.8	5365.6	5327.2	5168.7	4951.9	4789.3	5092.8	3682.4
47.5°	4974.9	4955.4	5168.7	5499.9	5665.0	5731.7	5531.7	5194.9	5403.0	3823.4
50°	4281.7	4274.5	4713.4	5321.5	5793.7	6224.9	6143.4	5572.2	5643.5	3896.2
52.5°	3712.6	3686.5	3942.3	4750.4	5606.6	6484.4	6741.2	5942.4	5811.7	3910.0
55°	2815.9	2792.8	3113.7	3794.6	5003.1	6392.1	7178.6	6324.4	5932.2	3874.6
57.5°	1510.5	1496.1	1901.7	2525.7	3911.0	5838.3	7257.6	6728.4	6033.7	3780.8
60°	588.1	585.5	737.3	1225.4	2377.0	4749.8	6859.2	6970.9	6097.3	3665.4
62.5°	355.8	363.5	388.1	550.1	1050.1	2950.7	5940.9	6695.1	6139.8	3559.8
65°	294.3	294.8	297.9	377.9	503.0	1234.6	4472.5	5787.6	6034.7	3371.6
67.5°	252.3	256.9	268.7	299.9	354.8	541.4	2574.9	4483.2	5395.4	2933.8
70°	198.9	205.1	220.0	246.6	273.8	338.9	951.6	2983.0	4121.8	2211.4
72.5°	167.7	167.1	174.8	200.5	217.4	238.4	366.1	1671.5	2395.4	1055.7
75°	129.7	134.8	144.6	167.7	177.9	172.8	198.4	610.6	858.3	319.9
77.5°	101.5	105.6	114.3	136.9	147.2	122.5	114.3	218.4	275.8	114.8
80°	45.6	49.2	77.9	101.0	120.0	84.6	62.0	111.8	122.5	52.3
82.5°	8.2	13.8	45.6	53.3	61.5	54.9	32.3	57.9	60.0	21.0
85°	0.5	1.0	15.9	19.5	24.6	17.9	9.7	23.1	20.0	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°
2003.7	0°	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7	2003.7
2008.3	2.5°	1971.4	1898.6	1827.8	1769.9	1736.1	1678.6	1640.7	1634.6	1618.7	1632.5
2013.5	5°	1933.5	1803.2	1671.5	1553.5	1456.6	1331.5	1238.2	1198.7	1164.4	1176.2
2026.8	7.5°	1915.5	1709.9	1504.8	1303.3	1096.2	896.2	747.5	685.5	638.3	645.0
2041.7	10°	1891.4	1613.0	1291.5	983.9	706.5	509.1	406.6	368.6	347.6	348.1
2063.7	12.5°	1873.0	1497.1	1043.9	667.0	430.2	325.1	293.3	284.0	277.9	278.4
2097.0	15°	1863.7	1360.8	799.3	444.5	307.6	275.3	267.6	263.5	259.4	258.9
2133.9	17.5°	1848.4	1209.0	585.0	324.6	269.2	257.9	251.2	246.6	241.5	240.5
2165.7	20°	1825.3	1036.7	427.6	274.3	252.3	243.5	234.3	228.2	222.0	221.0
2185.7	22.5°	1782.7	854.7	328.7	253.8	240.0	230.2	218.9	211.8	205.6	204.6
2176.0	25°	1703.8	684.0	276.9	241.0	229.2	217.4	205.1	195.3	189.7	188.7
2155.0	27.5°	1603.8	537.3	251.2	229.2	215.3	204.6	190.7	181.5	176.4	175.4
2127.3	30°	1485.9	413.8	236.4	215.9	198.9	189.7	177.4	169.7	166.6	166.6
2107.8	32.5°	1358.7	330.7	230.2	202.5	184.6	174.3	164.6	161.5	160.5	160.0
2118.6	35°	1239.2	287.1	227.1	191.8	171.8	162.0	157.9	158.4	160.5	160.5
2151.9	37.5°	1133.1	273.3	225.6	184.1	160.5	151.8	154.3	158.9	156.9	156.9
2210.3	40°	1037.2	274.8	224.6	178.4	151.3	146.1	151.3	147.7	142.5	142.0
2281.6	42.5°	963.9	287.6	222.5	173.8	145.6	142.0	140.0	134.3	133.8	134.8
2355.4	45°	910.6	298.9	222.0	171.8	139.5	132.8	130.2	124.6	134.8	137.4
2385.7	47.5°	847.5	298.9	222.0	164.6	129.2	126.6	122.5	116.4	126.6	129.2
2357.0	50°	766.0	279.9	213.3	156.4	121.0	119.5	112.3	104.6	102.5	104.1
2289.8	52.5°	662.9	245.6	191.2	145.1	112.8	109.7	101.0	95.4	93.8	93.8
2169.3	55°	545.5	205.6	161.5	128.7	104.1	98.4	92.3	89.7	88.2	87.2
2000.6	57.5°	443.5	168.7	129.7	114.3	95.9	88.7	86.6	83.6	81.0	79.5
1859.6	60°	364.0	132.8	107.2	101.5	87.7	81.0	80.5	76.4	69.7	68.7
1743.2	62.5°	281.0	97.4	90.2	88.2	79.5	73.8	72.8	64.6	54.3	52.3
1578.2	65°	198.4	75.9	72.8	77.4	70.8	65.6	63.1	50.8	40.0	38.5
1320.8	67.5°	139.5	63.6	57.4	67.7	61.5	54.9	53.3	43.1	33.3	32.3
998.8	70°	99.5	51.8	47.2	57.9	49.2	48.2	45.1	35.9	27.2	26.1
494.3	72.5°	70.2	39.5	36.4	50.2	33.8	41.5	36.9	27.7	20.5	19.5
168.2	75°	51.8	28.2	25.6	29.2	24.6	31.3	26.1	18.5	12.8	12.3
75.9	77.5°	37.9	17.9	15.4	14.4	14.4	19.5	14.4	7.7	5.6	5.1
38.5	80°	26.7	8.2	7.2	6.2	5.6	4.6	2.1	1.0	0.5	0.5
13.3	82.5°	15.9	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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