

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: P947310

Luminaire Tested: **GALN-SB2C-950-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947310  
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-SB2C-950-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

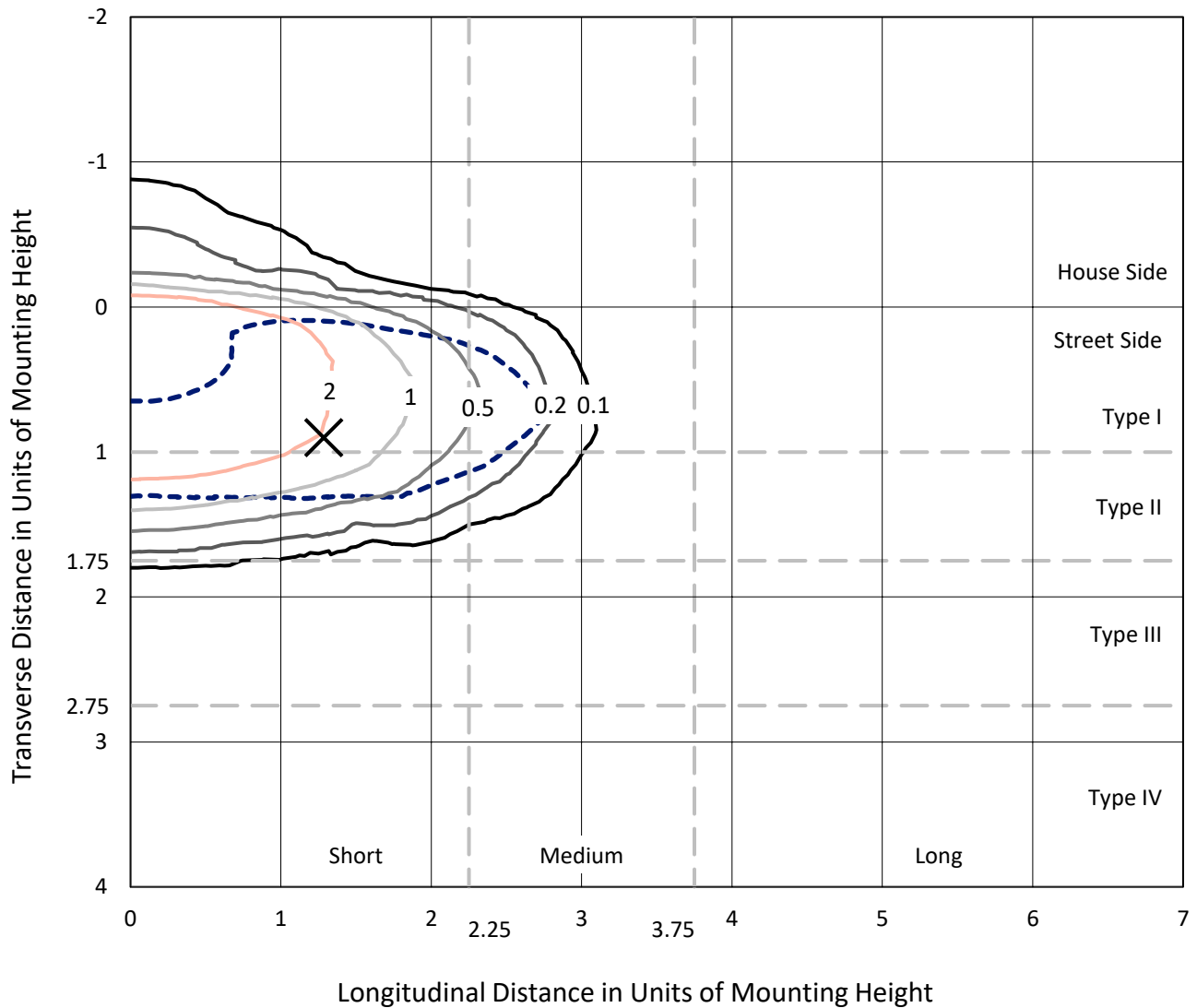
Lumens per Lamp: N/A  
Luminaire Lumens: 8883 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

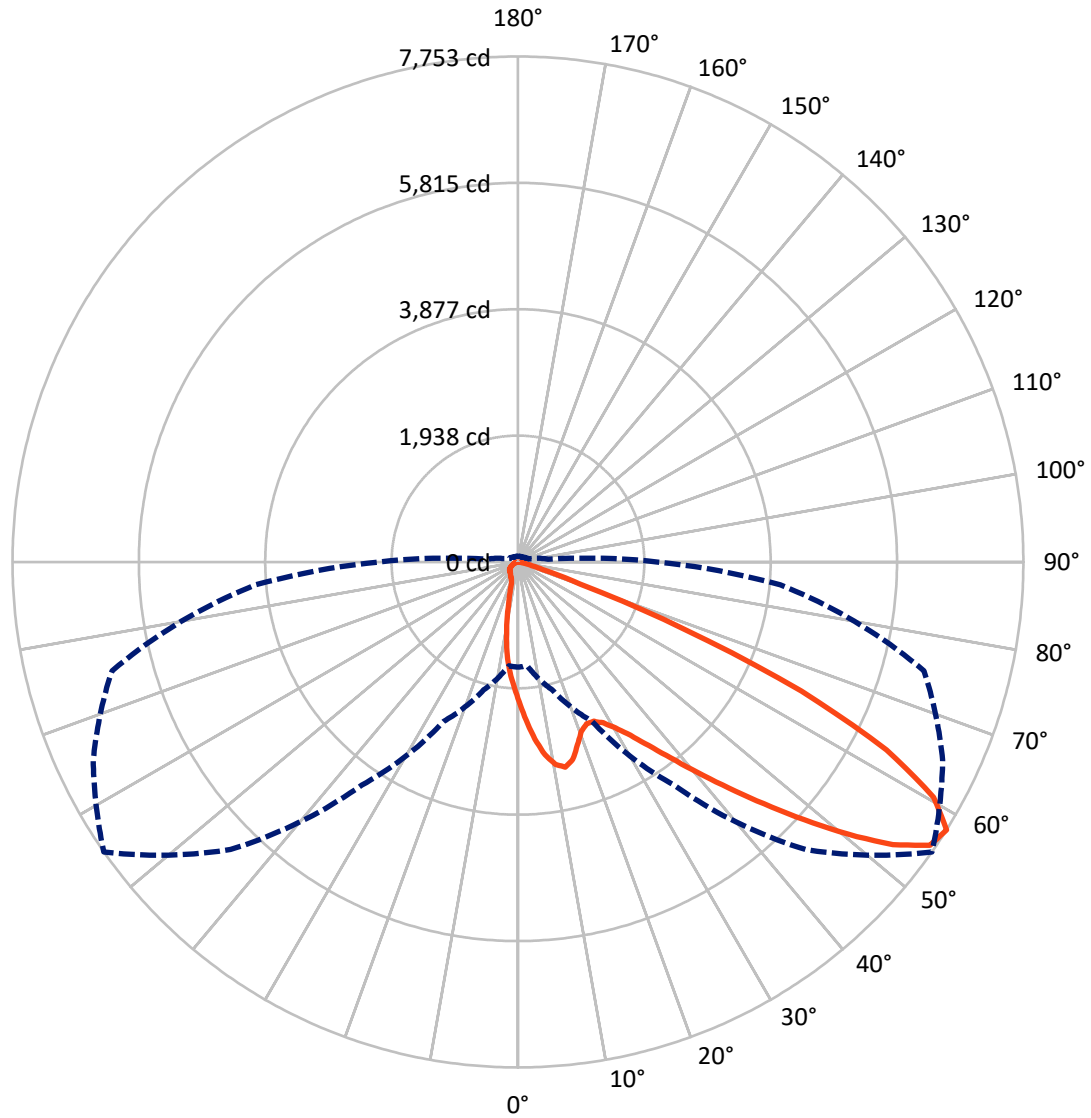
✕ Max cd  
 - - - 1/2 Max cd



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	693.7	0.0	693.7
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	8189.3	0.0	8189.3
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	8883.0	0.0	8883.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.2	2.2
10°-20°	481.1	5.4
20°-30°	769.7	8.7
30°-40°	1302.8	14.7
40°-50°	2139.0	24.1
50°-60°	2350.9	26.5
60°-70°	1348.5	15.2
70°-80°	275.5	3.1
80°-90°	16.2	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°	8883.0	100.0
0°-180°	8883.0	100.0

**Coefficient of Utilization**



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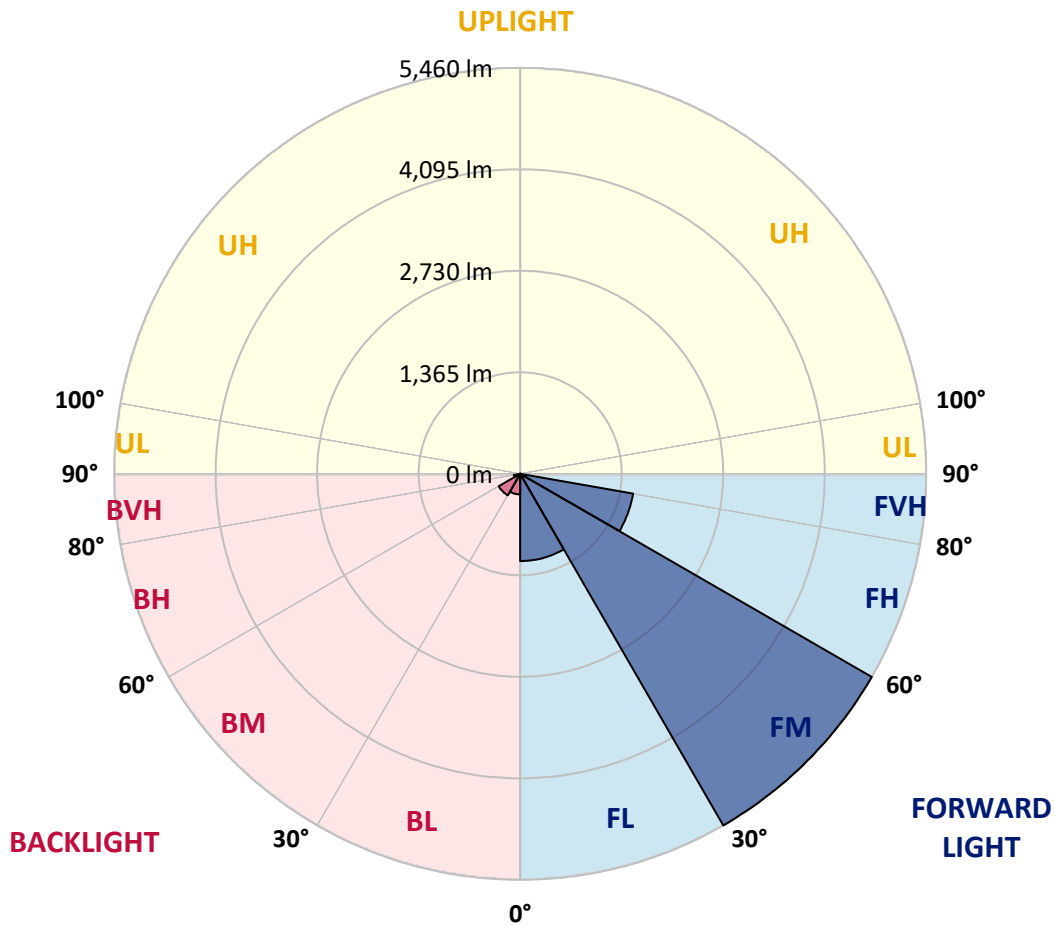
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1173.1	13.2			
FM (30°-60°)	5459.6	61.5			
FH (60°-80°)	1541.5	17.4			G1/1800
FVH (80°-90°)	15.2	0.2			G1/100
BL (0°-30°)	277.0	3.1	B1/500		
BM (30°-60°)	333.2	3.8	B1/1000		
BH (60°-80°)	82.5	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°	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6
2.5°	2656.0	2622.6	2617.7	2611.1	2547.6	2499.9	2430.9	2355.3	2270.4	2183.9
5°	3068.5	3042.2	3037.2	3006.6	2934.3	2853.2	2730.5	2575.5	2417.2	2231.0
7.5°	3148.4	3143.5	3166.0	3164.9	3155.0	3090.9	2987.4	2802.8	2565.1	2289.0
10°	2791.9	2804.4	2871.3	2929.9	3088.2	3180.2	3157.7	3005.5	2717.4	2355.3
12.5°	2467.0	2452.3	2499.9	2566.2	2750.2	3024.1	3228.4	3174.7	2891.5	2430.3
15°	2263.3	2257.3	2284.1	2314.8	2455.0	2731.1	3146.2	3312.2	3059.2	2519.1
17.5°	2198.1	2193.2	2201.4	2209.1	2300.0	2513.6	2950.7	3396.6	3219.6	2620.4
20°	2251.2	2244.7	2243.6	2237.5	2275.3	2421.0	2773.8	3402.6	3363.7	2712.4
22.5°	2406.2	2398.6	2371.7	2347.6	2350.9	2433.6	2694.9	3342.3	3472.2	2798.4
25°	2687.2	2674.6	2618.8	2537.7	2486.2	2521.3	2707.0	3262.9	3575.7	2865.8
27.5°	3038.9	3022.5	2950.7	2830.2	2712.4	2669.7	2794.0	3208.1	3661.7	2917.3
30°	3383.4	3362.1	3291.4	3197.7	3025.7	2891.0	2951.2	3232.2	3764.1	2971.0
32.5°	3755.3	3735.1	3641.4	3525.3	3382.9	3201.6	3166.5	3350.0	3889.5	3046.0
35°	4225.8	4194.1	4061.0	3902.7	3751.5	3568.0	3457.9	3553.2	4056.6	3160.5
37.5°	4761.5	4718.8	4575.3	4356.8	4159.6	3954.2	3812.8	3832.6	4301.4	3313.9
40°	5266.6	5227.7	5095.1	4889.2	4641.6	4392.4	4241.7	4197.9	4639.4	3500.6
42.5°	5569.5	5534.4	5478.5	5391.4	5182.8	4928.6	4738.5	4643.8	5039.2	3724.1
45°	5586.4	5555.8	5630.8	5732.1	5691.1	5521.8	5290.1	5116.5	5440.7	3933.9
47.5°	5314.8	5293.9	5521.8	5875.7	6052.0	6123.2	5909.6	5549.7	5772.1	4084.5
50°	4574.2	4566.5	5035.4	5685.0	6189.5	6650.2	6563.1	5952.9	6029.0	4162.3
52.5°	3966.2	3938.3	4211.6	5074.8	5989.6	6927.3	7201.7	6348.4	6208.7	4177.1
55°	3008.2	2983.6	3326.5	4053.9	5344.9	6828.7	7669.0	6756.4	6337.4	4139.3
57.5°	1613.7	1598.3	2031.6	2698.2	4178.2	6237.2	7753.3	7188.0	6445.9	4039.1
60°	628.3	625.5	787.7	1309.1	2539.3	5074.3	7327.7	7447.1	6513.8	3915.8
62.5°	380.1	388.4	414.6	587.7	1121.8	3152.3	6346.7	7152.4	6559.2	3803.0
65°	314.4	315.0	318.2	403.7	537.3	1319.0	4778.0	6182.9	6446.9	3602.0
67.5°	269.5	274.4	287.0	320.4	379.0	578.4	2750.8	4789.5	5763.9	3134.2
70°	212.5	219.1	235.0	263.5	292.5	362.1	1016.6	3186.8	4403.3	2362.4
72.5°	179.1	178.6	186.8	214.2	232.2	254.7	391.1	1785.6	2559.1	1127.8
75°	138.6	144.1	154.5	179.1	190.1	184.6	212.0	652.4	916.9	341.8
77.5°	108.5	112.8	122.1	146.2	157.2	130.9	122.1	233.3	294.7	122.7
80°	48.7	52.6	83.3	107.9	128.2	90.4	66.3	119.4	130.9	55.9
82.5°	8.8	14.8	48.7	57.0	65.7	58.6	34.5	61.9	64.1	22.5
85°	0.5	1.1	17.0	20.8	26.3	19.2	10.4	24.6	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°
2140.6	0°	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6
2145.5	2.5°	2106.1	2028.3	1952.7	1890.8	1854.7	1793.3	1752.8	1746.2	1729.2	1744.0
2151.0	5°	2065.5	1926.4	1785.6	1659.7	1556.1	1422.5	1322.8	1280.6	1243.9	1256.5
2165.2	7.5°	2046.4	1826.7	1607.6	1392.4	1171.1	957.5	798.6	732.3	681.9	689.1
2181.1	10°	2020.6	1723.2	1379.8	1051.1	754.8	543.9	434.4	393.8	371.4	371.9
2204.7	12.5°	2000.9	1599.4	1115.2	712.6	459.6	347.3	313.3	303.5	296.9	297.4
2240.3	15°	1991.0	1453.7	853.9	474.9	328.6	294.1	285.9	281.5	277.2	276.6
2279.7	17.5°	1974.6	1291.6	625.0	346.7	287.6	275.5	268.4	263.5	258.0	256.9
2313.7	20°	1950.0	1107.5	456.8	293.0	269.5	260.2	250.3	243.7	237.2	236.1
2335.0	22.5°	1904.5	913.1	351.1	271.1	256.3	245.9	233.9	226.2	219.6	218.5
2324.6	25°	1820.2	730.7	295.8	257.4	244.8	232.2	219.1	208.7	202.7	201.6
2302.2	27.5°	1713.3	574.0	268.4	244.8	230.1	218.5	203.8	193.9	188.4	187.3
2272.6	30°	1587.4	442.0	252.5	230.6	212.5	202.7	189.5	181.3	178.0	178.0
2251.8	32.5°	1451.5	353.3	245.9	216.4	197.2	186.2	175.8	172.5	171.4	170.9
2263.3	35°	1323.9	306.7	242.7	204.9	183.5	173.1	168.7	169.3	171.4	171.4
2298.9	37.5°	1210.5	291.9	241.0	196.6	171.4	162.1	164.9	169.8	167.6	167.6
2361.3	40°	1108.1	293.6	239.9	190.6	161.6	156.1	161.6	157.8	152.3	151.7
2437.5	42.5°	1029.8	307.3	237.7	185.7	155.6	151.7	149.5	143.5	143.0	144.1
2516.3	45°	972.8	319.3	237.2	183.5	149.0	141.9	139.1	133.1	144.1	146.8
2548.7	47.5°	905.4	319.3	237.2	175.8	138.0	135.3	130.9	124.3	135.3	138.0
2518.0	50°	818.3	299.1	227.9	167.1	129.3	127.6	120.0	111.7	109.5	111.2
2446.2	52.5°	708.2	262.4	204.3	155.0	120.5	117.2	107.9	101.9	100.2	100.2
2317.5	55°	582.8	219.6	172.5	137.5	111.2	105.2	98.6	95.9	94.2	93.1
2137.3	57.5°	473.8	180.2	138.6	122.1	102.4	94.8	92.6	89.3	86.5	84.9
1986.7	60°	388.9	141.9	114.5	108.5	93.7	86.5	86.0	81.6	74.5	73.4
1862.3	62.5°	300.2	104.1	96.4	94.2	84.9	78.9	77.8	69.0	58.1	55.9
1686.0	65°	212.0	81.1	77.8	82.7	75.6	70.1	67.4	54.2	42.7	41.1
1411.0	67.5°	149.0	67.9	61.3	72.3	65.7	58.6	57.0	46.0	35.6	34.5
1067.0	70°	106.3	55.3	50.4	61.9	52.6	51.5	48.2	38.3	29.0	27.9
528.0	72.5°	75.0	42.2	38.9	53.7	36.2	44.4	39.4	29.6	21.9	20.8
179.7	75°	55.3	30.1	27.4	31.2	26.3	33.4	27.9	19.7	13.7	13.1
81.1	77.5°	40.5	19.2	16.4	15.3	15.3	20.8	15.3	8.2	6.0	5.5
41.1	80°	28.5	8.8	7.7	6.6	6.0	4.9	2.2	1.1	0.5	0.5
14.2	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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