

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: P946701

Luminaire Tested: **GALN-SB2B-740-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946701  
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-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

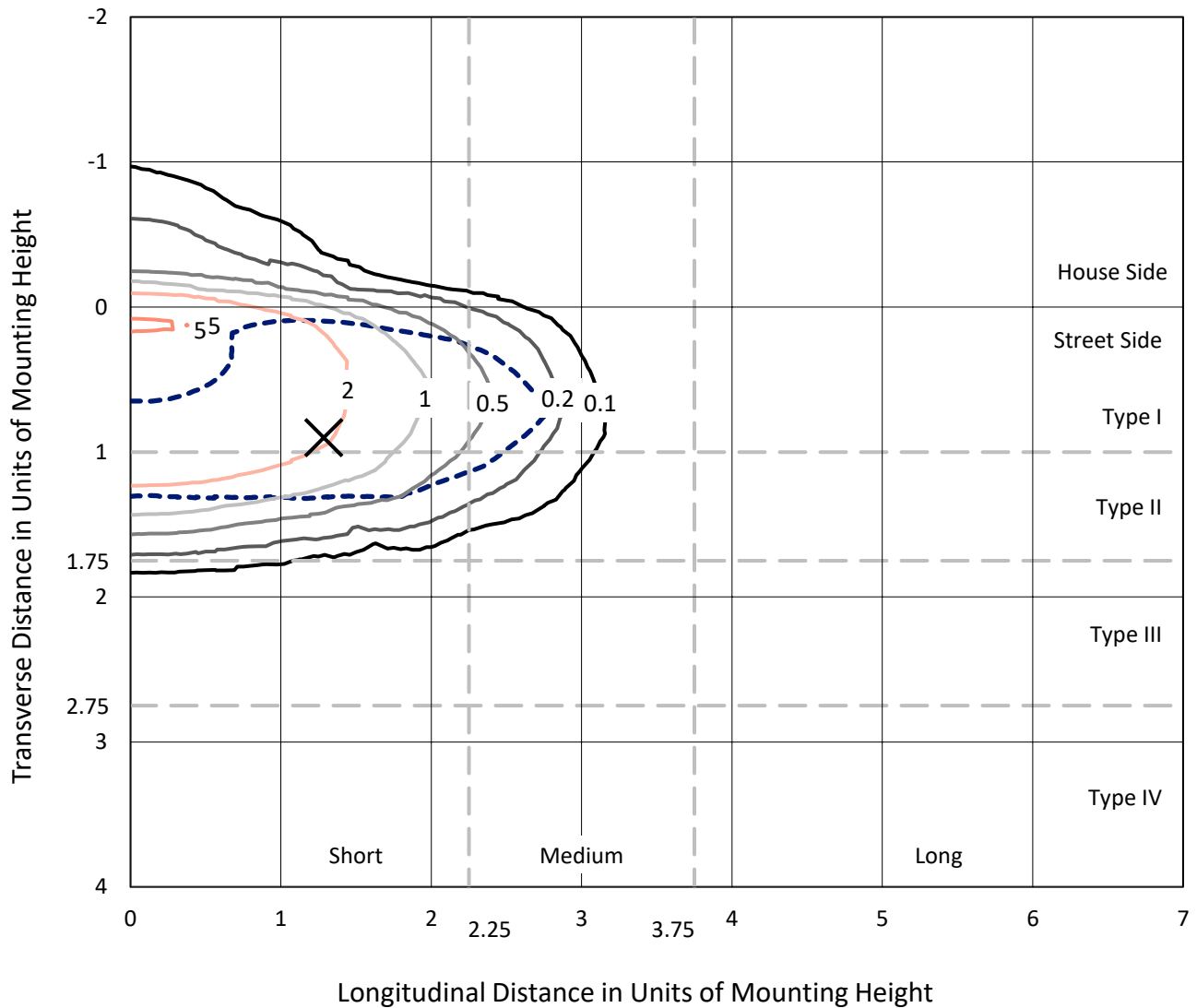
Lumens per Lamp: N/A  
Luminaire Lumens: 10158 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

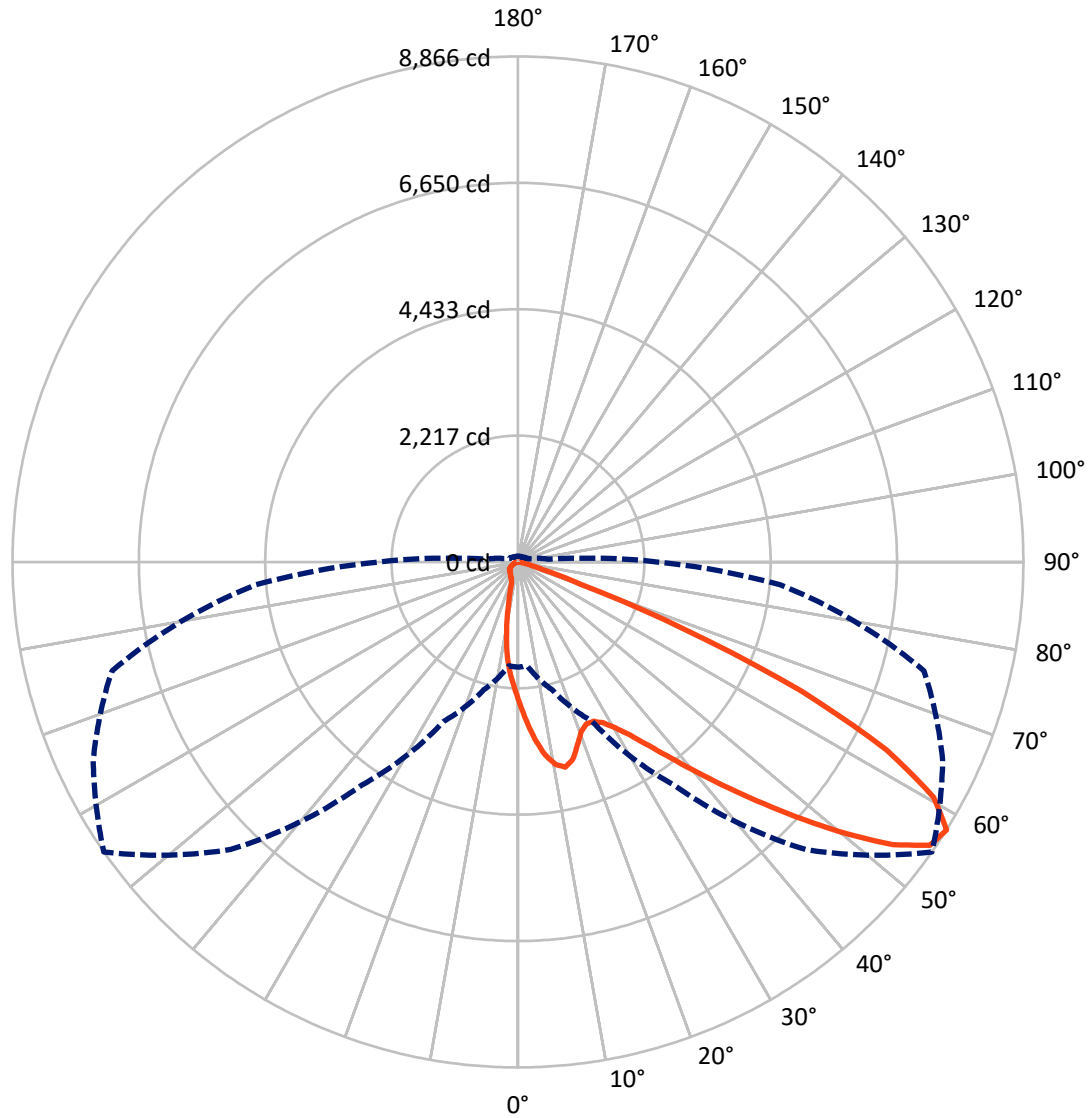
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	793.3	0.0	793.3
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	9364.7	0.0	9364.7
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	10158.0	0.0	10158.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.8	2.2
10°-20°	550.1	5.4
20°-30°	880.2	8.7
30°-40°	1489.8	14.7
40°-50°	2446.0	24.1
50°-60°	2688.3	26.5
60°-70°	1542.0	15.2
70°-80°	315.1	3.1
80°-90°	18.6	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°	10158.0	100.0
0°-180°	10158.0	100.0

**Coefficient of Utilization**



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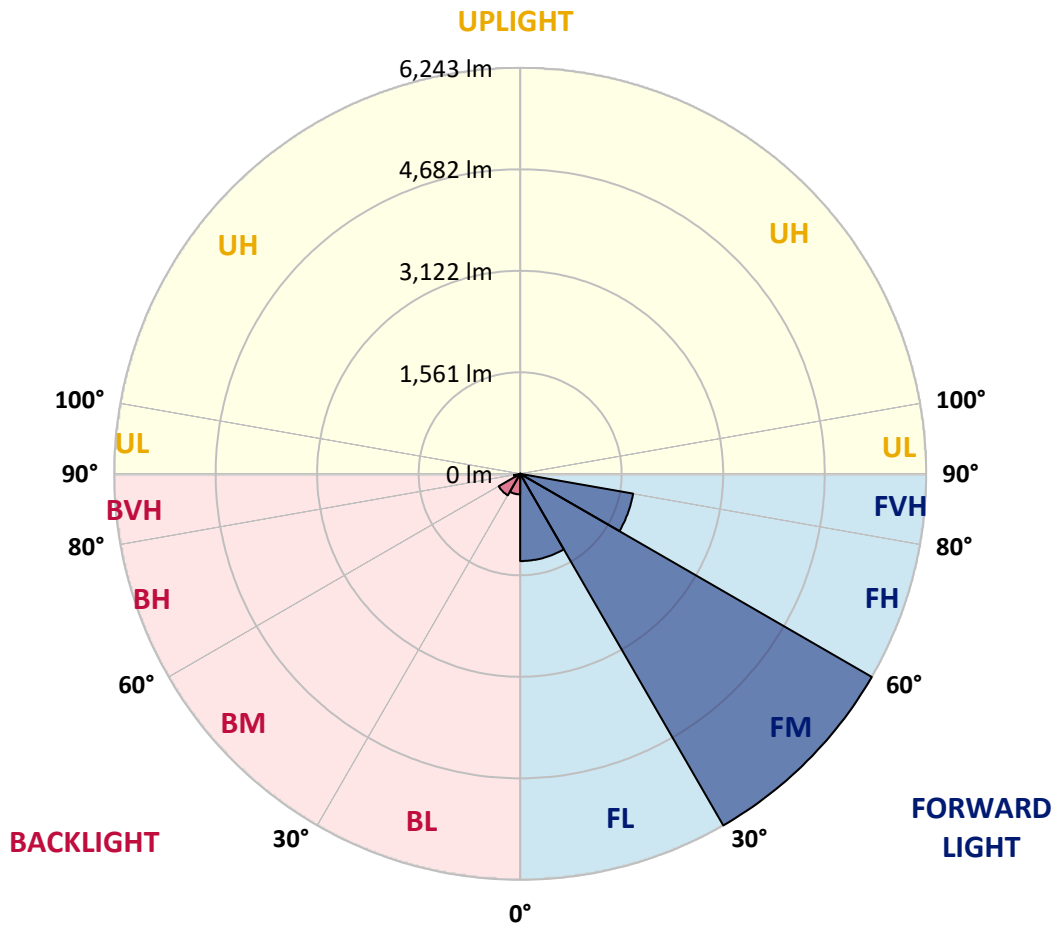
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1341.4	13.2			
FM (30°-60°)	6243.2	61.5			
FH (60°-80°)	1762.8	17.4			G1/1800
FVH (80°-90°)	17.3	0.2			G1/100
BL (0°-30°)	316.7	3.1	B1/500		
BM (30°-60°)	381.0	3.8	B1/1000		
BH (60°-80°)	94.3	0.9	B0/110		G0/110
BVH (80°-90°)	1.3	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°	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8
2.5°	3037.2	2999.0	2993.4	2985.9	2913.2	2858.7	2779.8	2693.4	2596.3	2497.3
5°	3508.9	3478.8	3473.2	3438.1	3355.4	3262.7	3122.4	2945.2	2764.1	2551.2
7.5°	3600.3	3594.7	3620.4	3619.1	3607.9	3534.6	3416.2	3205.1	2933.3	2617.6
10°	3192.6	3207.0	3283.4	3350.4	3531.4	3636.7	3611.0	3436.9	3107.4	2693.4
12.5°	2821.1	2804.2	2858.7	2934.5	3145.0	3458.2	3691.8	3630.4	3306.6	2779.2
15°	2588.1	2581.2	2611.9	2647.0	2807.4	3123.0	3597.8	3787.6	3498.2	2880.6
17.5°	2513.6	2508.0	2517.4	2526.1	2630.1	2874.4	3374.2	3884.1	3681.8	2996.5
20°	2574.4	2566.8	2565.6	2558.7	2601.9	2768.5	3171.9	3891.0	3846.5	3101.8
22.5°	2751.6	2742.8	2712.2	2684.6	2688.4	2782.9	3081.7	3822.1	3970.5	3200.1
25°	3072.9	3058.5	2994.6	2901.9	2843.1	2883.2	3095.5	3731.2	4088.9	3277.1
27.5°	3475.1	3456.3	3374.2	3236.4	3101.8	3052.9	3195.1	3668.6	4187.2	3336.0
30°	3869.0	3844.6	3763.8	3656.7	3460.0	3305.9	3374.8	3696.2	4304.4	3397.4
32.5°	4294.3	4271.2	4164.1	4031.3	3868.4	3661.1	3621.0	3830.8	4447.8	3483.2
35°	4832.4	4796.1	4643.9	4462.8	4290.0	4080.1	3954.2	4063.2	4638.8	3614.1
37.5°	5445.0	5396.1	5232.0	4982.1	4756.6	4521.7	4360.1	4382.7	4918.8	3789.5
40°	6022.5	5978.0	5826.4	5590.9	5307.8	5022.8	4850.6	4800.4	5305.3	4003.1
42.5°	6368.9	6328.8	6264.9	6165.3	5926.6	5636.0	5418.7	5310.3	5762.5	4258.6
45°	6388.3	6353.2	6439.0	6554.9	6507.9	6314.4	6049.4	5850.9	6221.7	4498.5
47.5°	6077.6	6053.8	6314.4	6719.0	6920.7	7002.1	6757.8	6346.3	6600.6	4670.8
50°	5230.8	5222.0	5758.2	6501.0	7077.9	7604.7	7505.1	6807.3	6894.4	4759.7
52.5°	4535.5	4503.6	4816.1	5803.3	6849.3	7921.6	8235.4	7259.6	7099.8	4776.6
55°	3440.0	3411.8	3803.9	4635.7	6112.1	7808.9	8769.7	7726.2	7247.0	4733.4
57.5°	1845.3	1827.7	2323.2	3085.5	4777.9	7132.4	8866.2	8219.8	7371.0	4618.8
60°	718.4	715.3	900.7	1497.0	2903.8	5802.6	8379.5	8516.0	7448.7	4477.9
62.5°	434.7	444.1	474.2	672.1	1282.8	3604.7	7257.7	8179.1	7500.7	4348.8
65°	359.5	360.2	363.9	461.6	614.5	1508.3	5463.8	7070.4	7372.3	4119.0
67.5°	308.2	313.8	328.2	366.4	433.4	661.4	3145.6	5476.9	6591.2	3584.1
70°	243.0	250.5	268.7	301.3	334.5	414.0	1162.5	3644.2	5035.3	2701.5
72.5°	204.8	204.2	213.6	244.9	265.6	291.3	447.2	2041.9	2926.4	1289.7
75°	158.5	164.7	176.6	204.8	217.3	211.1	242.4	746.0	1048.5	390.9
77.5°	124.0	129.0	139.7	167.2	179.8	149.7	139.7	266.8	337.0	140.3
80°	55.7	60.1	95.2	123.4	146.6	103.3	75.8	136.5	149.7	63.9
82.5°	10.0	16.9	55.7	65.1	75.2	67.0	39.5	70.8	73.3	25.7
85°	0.6	1.3	19.4	23.8	30.1	21.9	11.9	28.2	24.4	8.8
87.5°	0.0	0.0	0.0	0.6	0.6	3.1	3.8	5.0	3.8	3.1
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°
2447.8	0°	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8	2447.8
2453.5	2.5°	2408.4	2319.4	2233.0	2162.2	2120.9	2050.7	2004.4	1996.8	1977.4	1994.3
2459.7	5°	2362.0	2202.9	2041.9	1897.9	1779.5	1626.7	1512.7	1464.4	1422.5	1436.9
2476.0	7.5°	2340.1	2088.9	1838.4	1592.2	1339.2	1094.9	913.2	837.4	779.8	788.0
2494.2	10°	2310.7	1970.5	1577.8	1202.0	863.1	622.0	496.7	450.4	424.7	425.3
2521.1	12.5°	2288.1	1829.0	1275.3	814.9	525.5	397.1	358.3	347.0	339.5	340.1
2561.8	15°	2276.8	1662.4	976.5	543.1	375.8	336.4	327.0	322.0	316.9	316.3
2606.9	17.5°	2258.0	1477.0	714.7	396.5	328.8	315.1	306.9	301.3	295.0	293.8
2645.8	20°	2229.9	1266.5	522.4	335.1	308.2	297.5	286.2	278.7	271.2	270.0
2670.2	22.5°	2177.9	1044.1	401.5	310.0	293.1	281.2	267.5	258.7	251.2	249.9
2658.3	25°	2081.4	835.6	338.2	294.4	280.0	265.6	250.5	238.6	231.8	230.5
2632.6	27.5°	1959.3	656.4	306.9	280.0	263.1	249.9	233.0	221.7	215.5	214.2
2598.8	30°	1815.2	505.5	288.8	263.7	243.0	231.8	216.7	207.3	203.6	203.6
2575.0	32.5°	1659.9	404.0	281.2	247.4	225.5	213.0	201.1	197.3	196.1	195.4
2588.1	35°	1513.9	350.8	277.5	234.3	209.8	197.9	192.9	193.5	196.1	196.1
2628.8	37.5°	1384.3	333.9	275.6	224.9	196.1	185.4	188.5	194.2	191.7	191.7
2700.3	40°	1267.1	335.7	274.3	218.0	184.8	178.5	184.8	180.4	174.1	173.5
2787.3	42.5°	1177.6	351.4	271.8	212.3	177.9	173.5	171.0	164.1	163.5	164.7
2877.5	45°	1112.4	365.2	271.2	209.8	170.4	162.2	159.1	152.2	164.7	167.9
2914.5	47.5°	1035.4	365.2	271.2	201.1	157.8	154.7	149.7	142.2	154.7	157.8
2879.4	50°	935.8	342.0	260.6	191.0	147.8	145.9	137.2	127.8	125.3	127.2
2797.3	52.5°	809.9	300.0	233.6	177.3	137.8	134.0	123.4	116.5	114.6	114.6
2650.1	55°	666.5	251.2	197.3	157.2	127.2	120.3	112.7	109.6	107.7	106.5
2444.1	57.5°	541.8	206.1	158.5	139.7	117.1	108.4	105.9	102.1	99.0	97.1
2271.8	60°	444.7	162.2	130.9	124.0	107.1	99.0	98.3	93.3	85.2	83.9
2129.6	62.5°	343.2	119.0	110.2	107.7	97.1	90.2	88.9	78.9	66.4	63.9
1927.9	65°	242.4	92.7	88.9	94.6	86.4	80.2	77.0	62.0	48.9	47.0
1613.5	67.5°	170.4	77.7	70.2	82.7	75.2	67.0	65.1	52.6	40.7	39.5
1220.2	70°	121.5	63.3	57.6	70.8	60.1	58.9	55.1	43.8	33.2	31.9
603.8	72.5°	85.8	48.2	44.5	61.4	41.3	50.7	45.1	33.8	25.1	23.8
205.4	75°	63.3	34.4	31.3	35.7	30.1	38.2	31.9	22.5	15.7	15.0
92.7	77.5°	46.4	21.9	18.8	17.5	17.5	23.8	17.5	9.4	6.9	6.3
47.0	80°	32.6	10.0	8.8	7.5	6.9	5.6	2.5	1.3	0.6	0.6
16.3	82.5°	19.4	4.4	4.4	3.1	1.9	0.0	0.0	0.0	0.0	0.0
6.3	85°	4.4	1.9	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
2.5	87.5°	0.6	0.6	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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