

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: P952287

Luminaire Tested: **GALN-SB6A-940-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952287
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-SB6A-940-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 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: 16807 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

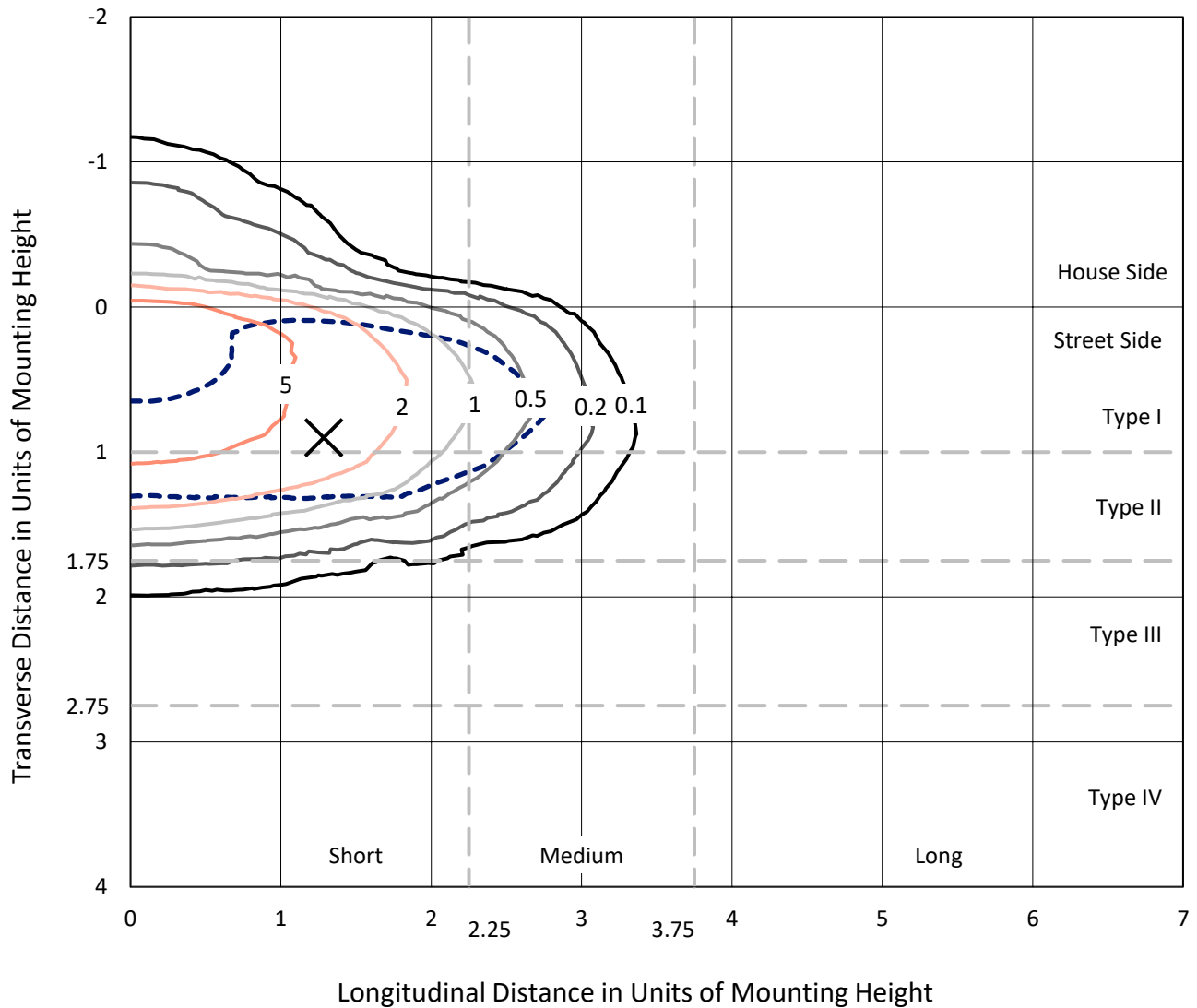
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

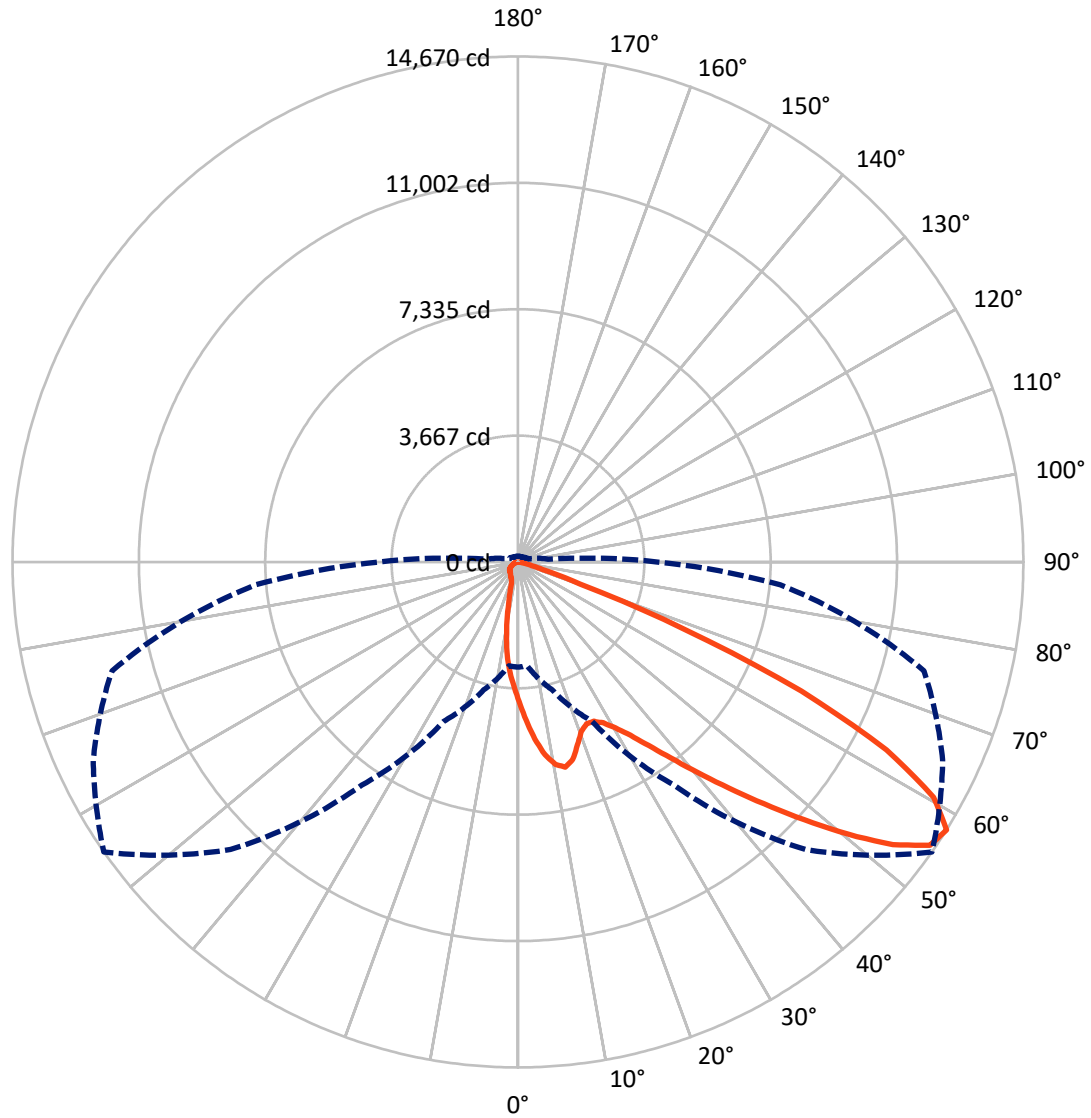
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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
House Side	Lumens	1312.6	0.0	1312.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	15494.4	0.0	15494.4
	% Fixture	92.2	0.0	92.2
Total	Lumens	16807.0	0.0	16807.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.8	2.2
10°-20°	910.2	5.4
20°-30°	1456.4	8.7
30°-40°	2465.0	14.7
40°-50°	4047.1	24.1
50°-60°	4448.0	26.5
60°-70°	2551.4	15.2
70°-80°	521.3	3.1
80°-90°	30.7	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°	16807.0	100.0
0°-180°	16807.0	100.0

Coefficient of Utilization



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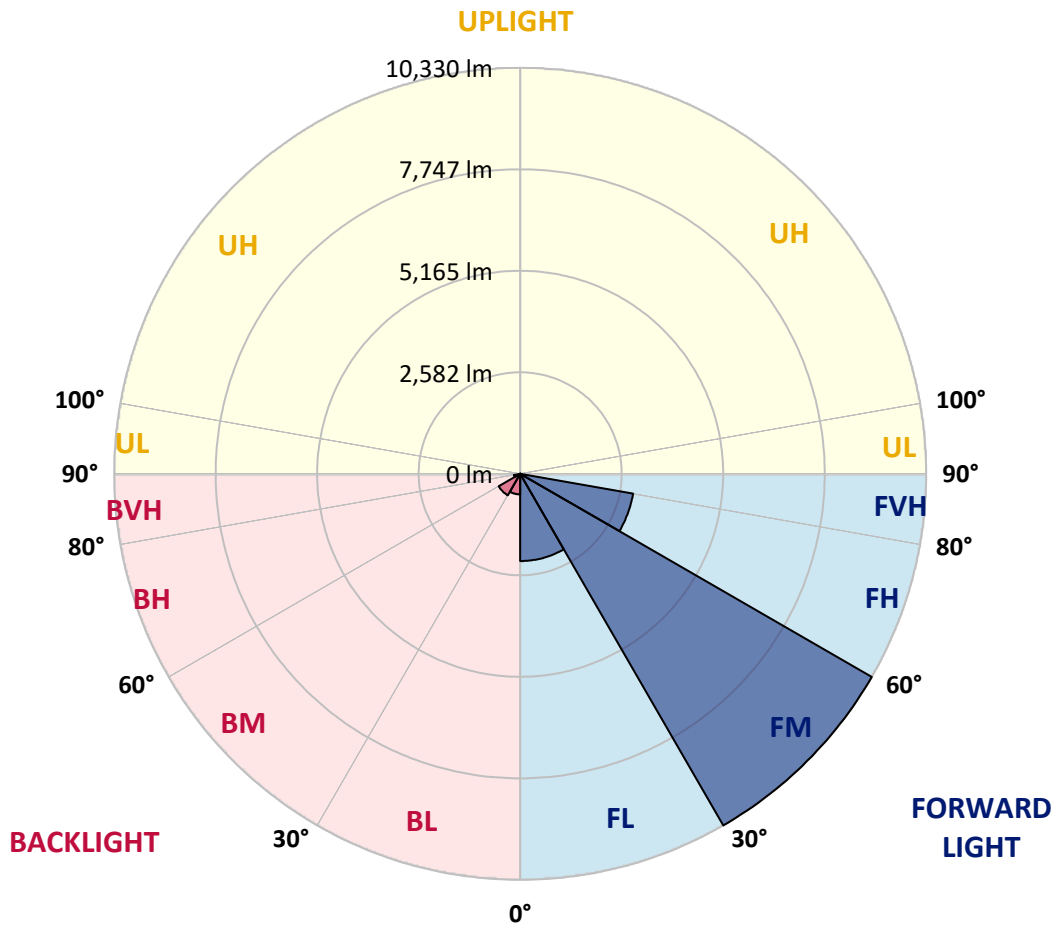
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2219.5	13.2			
FM (30°-60°)	10329.7	61.5			
FH (60°-80°)	2916.6	17.4			G2/5000
FVH (80°-90°)	28.7	0.2			G1/100
BL (0°-30°)	524.0	3.1	B2/1000		
BM (30°-60°)	630.4	3.8	B1/1000		
BH (60°-80°)	156.1	0.9	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4050.1	4050.1	4050.1	4050.1	4050.1	4050.1	4050.1	4050.1	4050.1	4050.1
2.5°	5025.3	4962.1	4952.7	4940.3	4820.1	4729.9	4599.3	4456.3	4295.7	4131.9
5°	5805.7	5755.9	5746.6	5688.5	5551.8	5398.4	5166.2	4872.9	4573.4	4221.1
7.5°	5957.0	5947.6	5990.1	5988.1	5969.4	5848.1	5652.3	5303.0	4853.2	4330.9
10°	5282.3	5306.1	5432.6	5543.5	5843.0	6017.1	5974.6	5686.5	5141.4	4456.3
12.5°	4667.7	4639.8	4729.9	4855.3	5203.5	5721.7	6108.3	6006.7	5470.9	4598.3
15°	4282.2	4270.8	4321.6	4379.6	4644.9	5167.3	5952.8	6266.8	5788.0	4766.2
17.5°	4158.9	4149.6	4165.1	4179.6	4351.7	4755.8	5582.8	6426.4	6091.7	4957.9
20°	4259.4	4247.0	4244.9	4233.5	4305.0	4580.7	5248.1	6437.8	6364.3	5132.0
22.5°	4552.7	4538.2	4487.4	4441.8	4448.0	4604.5	5098.9	6323.8	6569.5	5294.7
25°	5084.4	5060.5	4954.8	4801.4	4704.0	4770.3	5121.7	6173.6	6765.3	5422.2
27.5°	5749.7	5718.6	5582.8	5354.8	5132.0	5051.2	5286.4	6069.9	6928.0	5519.6
30°	6401.6	6361.1	6227.5	6050.2	5724.8	5469.9	5583.9	6115.5	7121.8	5621.2
32.5°	7105.2	7066.9	6889.7	6670.0	6400.5	6057.5	5991.2	6338.3	7359.2	5763.2
35°	7995.5	7935.4	7683.5	7384.0	7098.0	6750.8	6542.5	6722.8	7675.2	5979.8
37.5°	9009.0	8928.2	8656.7	8243.2	7870.1	7481.4	7214.1	7251.4	8138.5	6269.9
40°	9964.5	9891.0	9640.2	9250.5	8782.1	8310.5	8025.5	7942.6	8777.9	6623.3
42.5°	10537.7	10471.3	10365.6	10200.8	9806.0	9325.1	8965.5	8786.2	9534.5	7046.2
45°	10569.8	10511.7	10653.7	10845.4	10767.7	10447.5	10009.1	9680.6	10294.1	7443.1
47.5°	10055.7	10016.4	10447.5	11117.0	11450.7	11585.4	11181.2	10500.3	10921.1	7728.1
50°	8654.6	8640.1	9527.2	10756.3	11710.8	12582.4	12417.6	11263.1	11407.2	7875.3
52.5°	7504.2	7451.4	7968.5	9601.8	11332.5	13106.8	13626.0	12011.3	11747.1	7903.2
55°	5691.7	5645.0	6293.8	7670.1	10112.7	12920.2	14510.0	12783.4	11990.6	7831.7
57.5°	3053.1	3024.1	3843.8	5105.1	7905.3	11801.0	14669.6	13600.1	12195.8	7642.1
60°	1188.7	1183.5	1490.3	2476.9	4804.5	9600.8	13864.3	14090.3	12324.3	7408.9
62.5°	719.2	734.8	784.5	1112.0	2122.5	5964.2	12008.2	13532.7	12410.3	7195.4
65°	594.9	595.9	602.1	763.8	1016.7	2495.5	9040.1	11698.4	12197.9	6815.1
67.5°	509.9	519.2	543.0	606.3	717.2	1094.4	5204.6	9061.9	10905.6	5930.0
70°	402.1	414.5	444.6	498.5	553.4	685.0	1923.5	6029.5	8331.3	4469.8
72.5°	338.9	337.9	353.4	405.2	439.4	481.9	740.0	3378.5	4841.8	2133.9
75°	262.2	272.6	292.3	338.9	359.6	349.3	401.1	1234.3	1734.9	646.7
77.5°	205.2	213.5	231.1	276.7	297.4	247.7	231.1	441.5	557.6	232.1
80°	92.2	99.5	157.5	204.2	242.5	171.0	125.4	225.9	247.7	105.7
82.5°	16.6	28.0	92.2	107.8	124.4	110.9	65.3	117.1	121.3	42.5
85°	1.0	2.1	32.1	39.4	49.7	36.3	19.7	46.6	40.4	14.5
87.5°	0.0	0.0	0.0	1.0	1.0	5.2	6.2	8.3	6.2	5.2
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°
4050.1	0°	4050.1	4050.1	4050.1	4050.1	4050.1	4050.1	4050.1	4050.1	4050.1	4050.1
4059.4	2.5°	3984.8	3837.6	3694.6	3577.5	3509.1	3393.0	3316.3	3303.9	3271.8	3299.8
4069.8	5°	3908.1	3644.9	3378.5	3140.2	2944.3	2691.4	2502.8	2423.0	2353.6	2377.4
4096.7	7.5°	3871.8	3456.2	3041.7	2634.4	2215.7	1811.5	1511.0	1385.6	1290.3	1303.7
4126.8	10°	3823.1	3260.4	2610.6	1988.8	1428.1	1029.1	821.8	745.1	702.6	703.7
4171.3	12.5°	3785.8	3026.2	2110.0	1348.3	869.5	657.0	592.8	574.1	561.7	562.7
4238.7	15°	3767.1	2750.5	1615.7	898.5	621.8	556.5	541.0	532.7	524.4	523.4
4313.3	17.5°	3736.1	2443.7	1182.5	656.0	544.1	521.3	507.8	498.5	488.1	486.1
4377.6	20°	3689.4	2095.5	864.3	554.4	509.9	492.3	473.6	461.2	448.7	446.7
4418.0	22.5°	3603.4	1727.6	664.3	513.0	485.0	465.3	442.5	428.0	415.6	413.5
4398.3	25°	3443.8	1382.5	559.6	487.1	463.3	439.4	414.5	394.9	383.5	381.4
4355.8	27.5°	3241.7	1086.1	507.8	463.3	435.3	413.5	385.5	366.9	356.5	354.4
4299.8	30°	3003.4	836.3	477.8	436.3	402.1	383.5	358.6	343.0	336.8	336.8
4260.5	32.5°	2746.3	668.4	465.3	409.4	373.1	352.4	332.7	326.5	324.4	323.3
4282.2	35°	2504.9	580.4	459.1	387.6	347.2	327.5	319.2	320.2	324.4	324.4
4349.6	37.5°	2290.3	552.4	456.0	372.1	324.4	306.8	311.9	321.3	317.1	317.1
4467.7	40°	2096.5	555.5	453.9	360.7	305.7	295.4	305.7	298.5	288.1	287.1
4611.8	42.5°	1948.3	581.4	449.8	351.3	294.3	287.1	282.9	271.5	270.5	272.6
4761.0	45°	1840.6	604.2	448.7	347.2	281.9	268.4	263.2	251.8	272.6	277.7
4822.2	47.5°	1713.1	604.2	448.7	332.7	261.2	256.0	247.7	235.3	256.0	261.2
4764.1	50°	1548.3	565.8	431.1	316.1	244.6	241.5	227.0	211.4	207.3	210.4
4628.4	52.5°	1340.0	496.4	386.6	293.3	228.0	221.8	204.2	192.8	189.7	189.7
4384.8	55°	1102.7	415.6	326.5	260.1	210.4	199.0	186.5	181.4	178.3	176.2
4043.9	57.5°	896.4	341.0	262.2	231.1	193.8	179.3	175.1	168.9	163.7	160.6
3758.9	60°	735.8	268.4	216.6	205.2	177.2	163.7	162.7	154.4	140.9	138.9
3523.6	62.5°	567.9	196.9	182.4	178.3	160.6	149.2	147.2	130.6	109.9	105.7
3189.9	65°	401.1	153.4	147.2	156.5	143.0	132.7	127.5	102.6	80.8	77.7
2669.6	67.5°	281.9	128.5	116.1	136.8	124.4	110.9	107.8	87.1	67.4	65.3
2018.8	70°	201.1	104.7	95.3	117.1	99.5	97.4	91.2	72.5	54.9	52.9
999.0	72.5°	142.0	79.8	73.6	101.6	68.4	83.9	74.6	56.0	41.5	39.4
339.9	75°	104.7	57.0	51.8	59.1	49.7	63.2	52.9	37.3	25.9	24.9
153.4	77.5°	76.7	36.3	31.1	29.0	29.0	39.4	29.0	15.5	11.4	10.4
77.7	80°	53.9	16.6	14.5	12.4	11.4	9.3	4.1	2.1	1.0	1.0
26.9	82.5°	32.1	7.3	7.3	5.2	3.1	0.0	0.0	0.0	0.0	0.0
10.4	85°	7.3	3.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
4.1	87.5°	1.0	1.0	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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