

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: P953904

Luminaire Tested: **GALN-SB7B-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953904
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-SB7B-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 29691 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

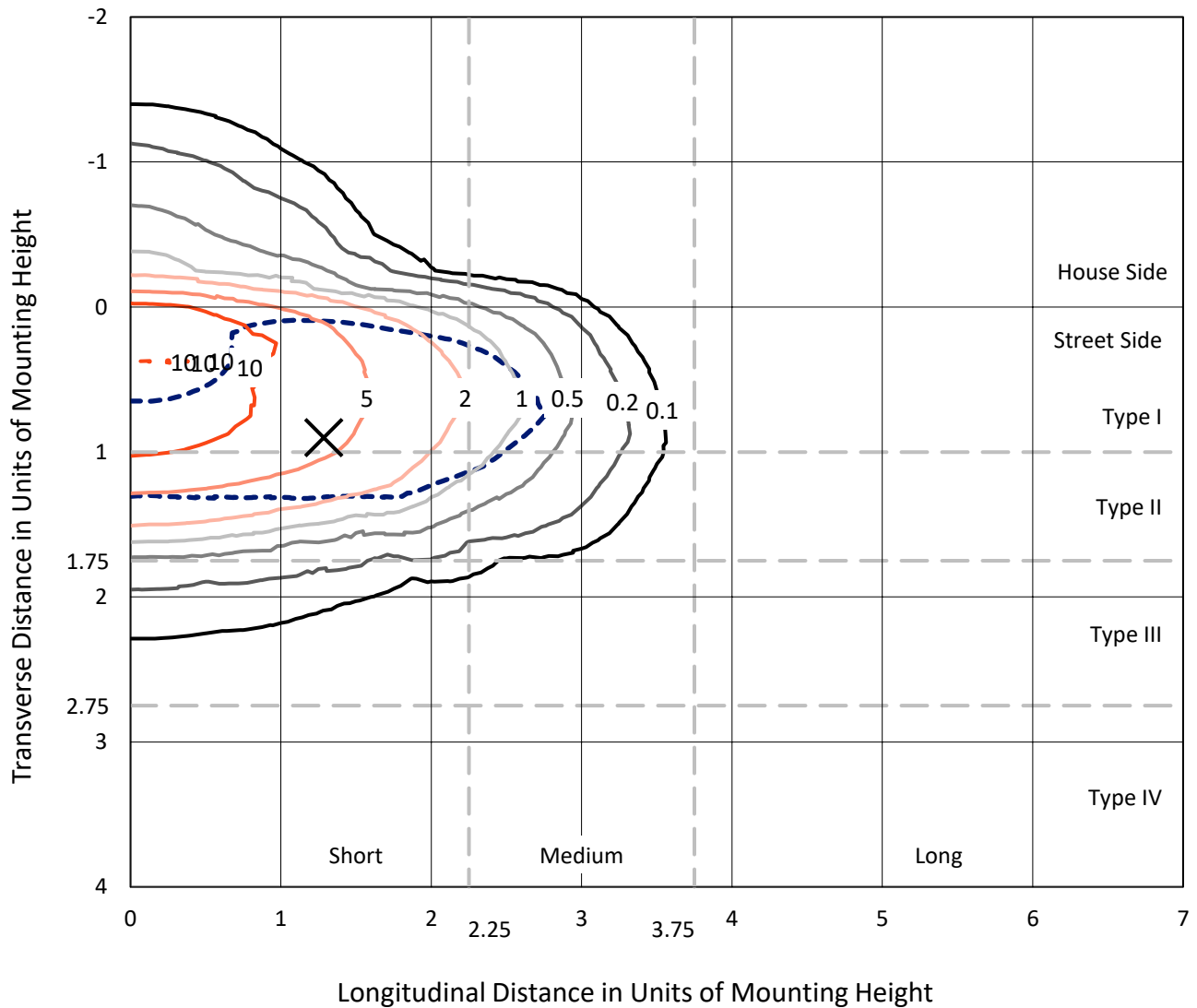
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

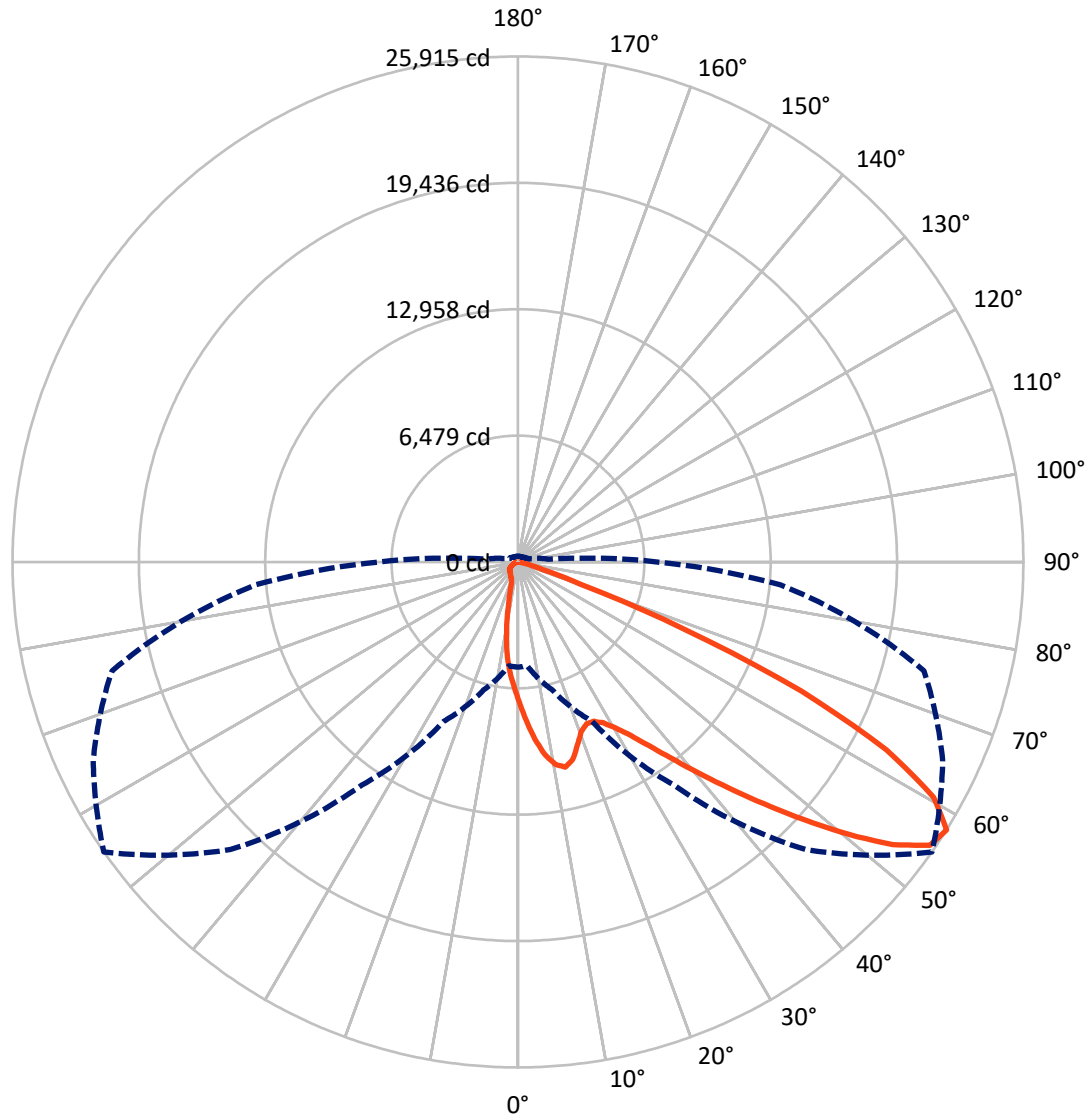
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 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	2318.8	0.0	2318.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	27372.3	0.0	27372.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	29691.0	0.0	29691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.7	2.2
10°-20°	1608.0	5.4
20°-30°	2572.8	8.7
30°-40°	4354.7	14.7
40°-50°	7149.5	24.1
50°-60°	7857.8	26.5
60°-70°	4507.2	15.2
70°-80°	921.0	3.1
80°-90°	54.3	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°	29691.0	100.0
0°-180°	29691.0	100.0

Coefficient of Utilization



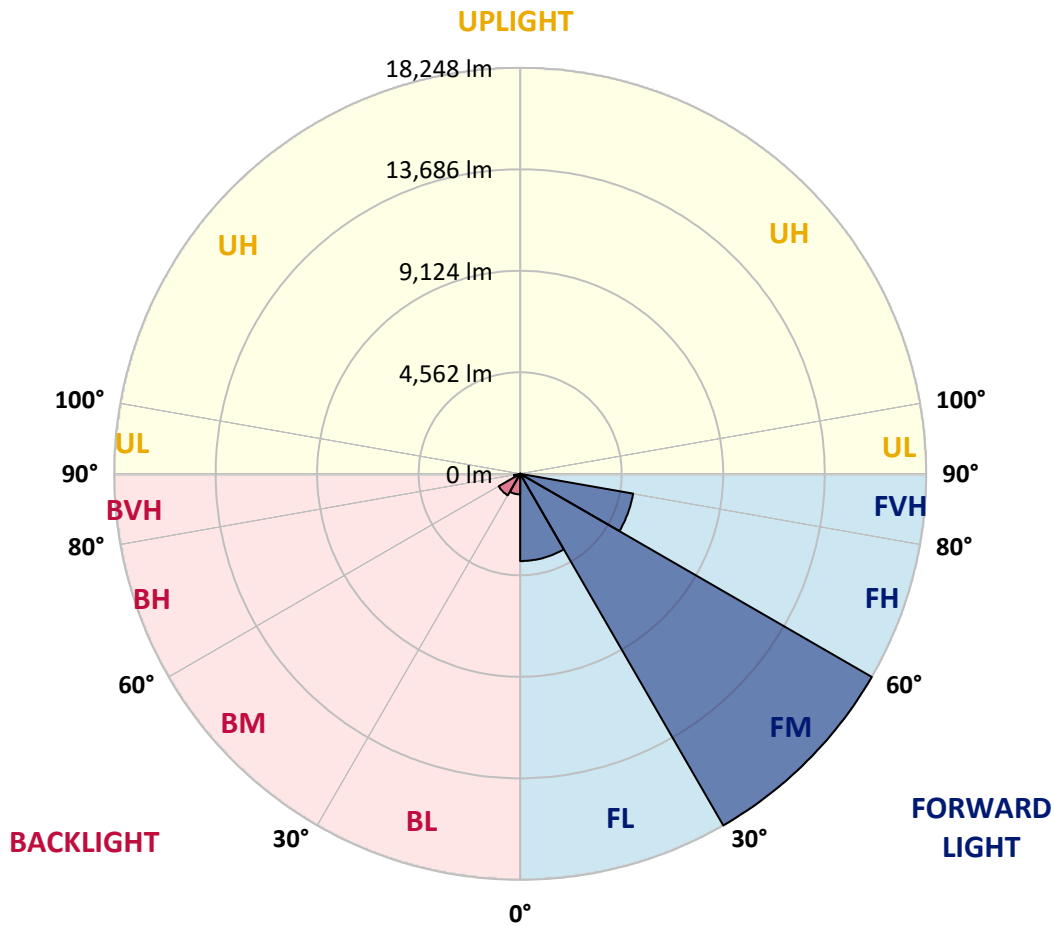
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3920.9	13.2			
FM (30°-60°)	18248.3	61.5			
FH (60°-80°)	5152.4	17.4			G3/7500
FVH (80°-90°)	50.7	0.2			G1/100
BL (0°-30°)	925.7	3.1	B2/1000		
BM (30°-60°)	1113.6	3.8	B2/2500		
BH (60°-80°)	275.8	0.9	B1/500		G1/500
BVH (80°-90°)	3.7	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7154.8	7154.8	7154.8	7154.8	7154.8	7154.8	7154.8	7154.8	7154.8	7154.8
2.5°	8877.6	8765.9	8749.4	8727.5	8515.1	8355.8	8125.1	7872.5	7588.7	7299.4
5°	10256.2	10168.3	10151.8	10049.3	9807.6	9536.7	9126.6	8608.5	8079.4	7456.9
7.5°	10523.5	10507.0	10582.1	10578.4	10545.5	10331.3	9985.2	9368.2	8573.7	7650.9
10°	9331.6	9373.7	9597.1	9793.0	10322.1	10629.7	10554.6	10045.6	9082.6	7872.5
12.5°	8246.0	8196.5	8355.8	8577.3	9192.5	10107.9	10790.8	10611.4	9664.8	8123.3
15°	7564.9	7544.8	7634.5	7737.0	8205.7	9128.4	10516.2	11070.9	10225.1	8419.9
17.5°	7347.0	7330.6	7358.0	7383.7	7687.6	8401.6	9862.6	11352.8	10761.5	8758.6
20°	7524.6	7502.7	7499.0	7478.9	7605.2	8092.2	9271.2	11373.0	11243.0	9066.2
22.5°	8042.7	8017.1	7927.4	7846.8	7857.8	8134.3	9007.6	11171.6	11605.5	9353.6
25°	8981.9	8939.8	8753.1	8482.1	8310.0	8427.2	9047.9	10906.1	11951.5	9578.8
27.5°	10157.3	10102.4	9862.6	9459.8	9066.2	8923.4	9339.0	10723.0	12239.0	9750.9
30°	11308.9	11237.5	11001.3	10688.3	10113.4	9663.0	9864.4	10803.6	12581.3	9930.3
32.5°	12552.0	12484.3	12171.2	11783.1	11307.1	10701.1	10583.9	11197.2	13000.6	10181.1
35°	14124.7	14018.5	13573.6	13044.5	12539.2	11925.9	11557.9	11876.5	13559.0	10563.8
37.5°	15915.2	15772.4	15292.7	14562.3	13903.2	13216.6	12744.3	12810.2	14377.3	11076.4
40°	17603.2	17473.2	17030.2	16341.8	15514.3	14681.3	14177.8	14031.3	15506.9	11700.7
42.5°	18615.7	18498.5	18311.7	18020.6	17323.1	16473.6	15838.3	15521.6	16843.4	12447.7
45°	18672.4	18569.9	18820.7	19159.4	19022.1	18456.4	17681.9	17101.6	18185.4	13148.9
47.5°	17764.3	17694.8	18456.4	19639.1	20228.6	20466.6	19752.6	18549.8	19293.1	13652.3
50°	15289.1	15263.4	16830.6	19002.0	20688.1	22227.8	21936.7	19897.2	20151.7	13912.3
52.5°	13256.9	13163.5	14077.1	16962.4	20019.9	23154.2	24071.5	21219.1	20752.2	13961.7
55°	10054.8	9972.4	11118.5	13549.8	17865.0	22824.7	25633.1	22583.0	21182.5	13835.4
57.5°	5393.6	5342.3	6790.5	9018.6	13965.4	20847.4	25915.1	24025.7	21545.0	13500.4
60°	2099.9	2090.8	2632.7	4375.6	8487.6	16960.6	24492.6	24891.7	21772.0	13088.4
62.5°	1270.6	1298.0	1385.9	1964.5	3749.5	10536.3	21213.6	23906.7	21923.9	12711.3
65°	1050.9	1052.7	1063.7	1349.3	1796.0	4408.6	15970.1	20666.2	21548.6	12039.4
67.5°	900.8	917.2	959.3	1071.0	1266.9	1933.3	9194.3	16008.6	19265.6	10475.9
70°	710.4	732.3	785.4	880.6	977.7	1210.2	3398.0	10651.6	14717.9	7896.3
72.5°	598.7	596.8	624.3	715.8	776.3	851.3	1307.2	5968.4	8553.5	3769.6
75°	463.2	481.5	516.3	598.7	635.3	617.0	708.5	2180.5	3064.8	1142.4
77.5°	362.5	377.1	408.3	488.8	525.4	437.6	408.3	779.9	985.0	410.1
80°	162.9	175.8	278.3	360.7	428.4	302.1	221.5	399.1	437.6	186.7
82.5°	29.3	49.4	162.9	190.4	219.7	195.9	115.3	206.9	214.2	75.1
85°	1.8	3.7	56.8	69.6	87.9	64.1	34.8	82.4	71.4	25.6
87.5°	0.0	0.0	0.0	1.8	1.8	9.2	11.0	14.6	11.0	9.2
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°
7154.8	0°	7154.8	7154.8	7154.8	7154.8	7154.8	7154.8	7154.8	7154.8	7154.8	7154.8
7171.3	2.5°	7039.5	6779.5	6526.8	6320.0	6199.1	5994.1	5858.6	5836.6	5779.9	5829.3
7189.6	5°	6904.0	6439.0	5968.4	5547.3	5201.3	4754.6	4421.4	4280.4	4157.8	4199.9
7237.2	7.5°	6839.9	6105.7	5373.4	4653.9	3914.3	3200.3	2669.3	2447.8	2279.4	2303.2
7290.3	10°	6753.9	5759.7	4611.8	3513.3	2522.9	1818.0	1451.8	1316.4	1241.3	1243.1
7369.0	12.5°	6687.9	5346.0	3727.5	2381.9	1536.0	1160.7	1047.2	1014.3	992.3	994.1
7488.0	15°	6655.0	4859.0	2854.2	1587.3	1098.5	983.1	955.7	941.0	926.4	924.6
7619.8	17.5°	6600.1	4317.0	2089.0	1158.9	961.2	920.9	897.1	880.6	862.3	858.6
7733.3	20°	6517.7	3701.9	1526.9	979.5	900.8	869.6	836.7	814.7	792.7	789.1
7804.7	22.5°	6365.7	3052.0	1173.5	906.3	856.8	822.0	781.8	756.1	734.2	730.5
7770.0	25°	6083.8	2442.3	988.6	860.5	818.4	776.3	732.3	697.5	677.4	673.7
7694.9	27.5°	5726.8	1918.7	897.1	818.4	768.9	730.5	681.1	648.1	629.8	626.1
7596.0	30°	5305.7	1477.5	844.0	770.8	710.4	677.4	633.5	606.0	595.0	595.0
7526.5	32.5°	4851.6	1180.9	822.0	723.2	659.1	622.5	587.7	576.7	573.0	571.2
7564.9	35°	4425.1	1025.3	811.0	684.7	613.3	578.5	563.9	565.7	573.0	573.0
7683.9	37.5°	4046.1	975.8	805.6	657.3	573.0	541.9	551.1	567.6	560.2	560.2
7892.6	40°	3703.7	981.3	801.9	637.1	540.1	521.8	540.1	527.3	509.0	507.1
8147.1	42.5°	3441.9	1027.1	794.6	620.6	519.9	507.1	499.8	479.7	477.8	481.5
8410.7	45°	3251.5	1067.4	792.7	613.3	498.0	474.2	465.0	444.9	481.5	490.7
8518.8	47.5°	3026.3	1067.4	792.7	587.7	461.4	452.2	437.6	415.6	452.2	461.4
8416.2	50°	2735.2	999.6	761.6	558.4	432.1	426.6	400.9	373.5	366.2	371.7
8176.4	52.5°	2367.2	877.0	682.9	518.1	402.8	391.8	360.7	340.5	335.0	335.0
7746.2	55°	1948.0	734.2	576.7	459.5	371.7	351.5	329.5	320.4	314.9	311.2
7143.8	57.5°	1583.6	602.3	463.2	408.3	342.4	316.7	309.4	298.4	289.3	283.8
6640.3	60°	1299.9	474.2	382.6	362.5	313.1	289.3	287.4	272.8	249.0	245.3
6224.7	62.5°	1003.3	347.9	322.2	314.9	283.8	263.6	260.0	230.7	194.1	186.7
5635.2	65°	708.5	271.0	260.0	276.5	252.7	234.3	225.2	181.3	142.8	137.3
4716.2	67.5°	498.0	227.0	205.1	241.7	219.7	195.9	190.4	153.8	119.0	115.3
3566.4	70°	355.2	184.9	168.4	206.9	175.8	172.1	161.1	128.2	97.0	93.4
1764.9	72.5°	250.8	141.0	130.0	179.4	120.8	148.3	131.8	98.9	73.2	69.6
600.5	75°	184.9	100.7	91.5	104.4	87.9	111.7	93.4	65.9	45.8	43.9
271.0	77.5°	135.5	64.1	54.9	51.3	51.3	69.6	51.3	27.5	20.1	18.3
137.3	80°	95.2	29.3	25.6	22.0	20.1	16.5	7.3	3.7	1.8	1.8
47.6	82.5°	56.8	12.8	12.8	9.2	5.5	0.0	0.0	0.0	0.0	0.0
18.3	85°	12.8	5.5	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
7.3	87.5°	1.8	1.8	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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