

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: P956865

Luminaire Tested: **GALN-SB9B-927-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956865
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-SB9B-927-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 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: 26619 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

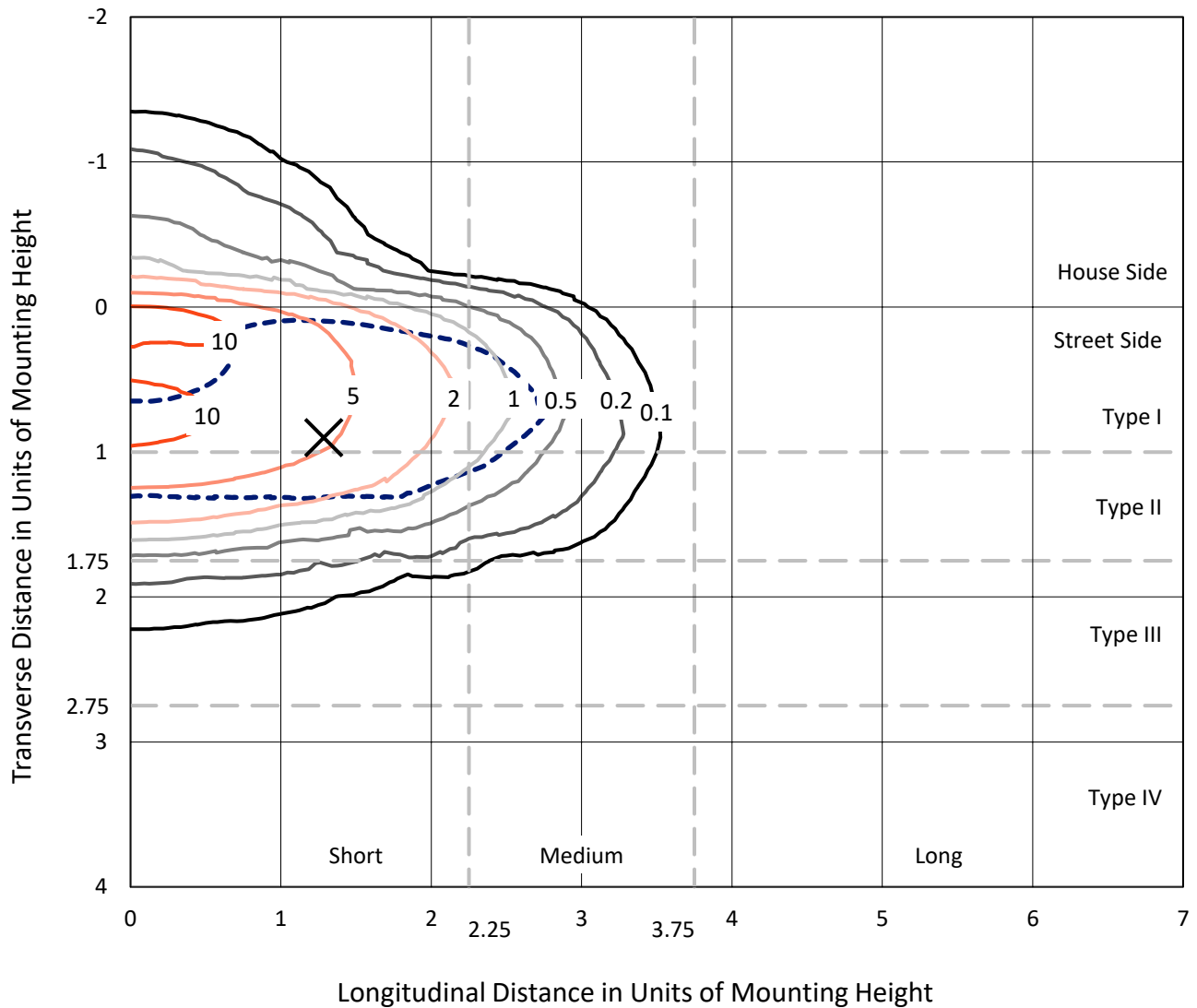
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

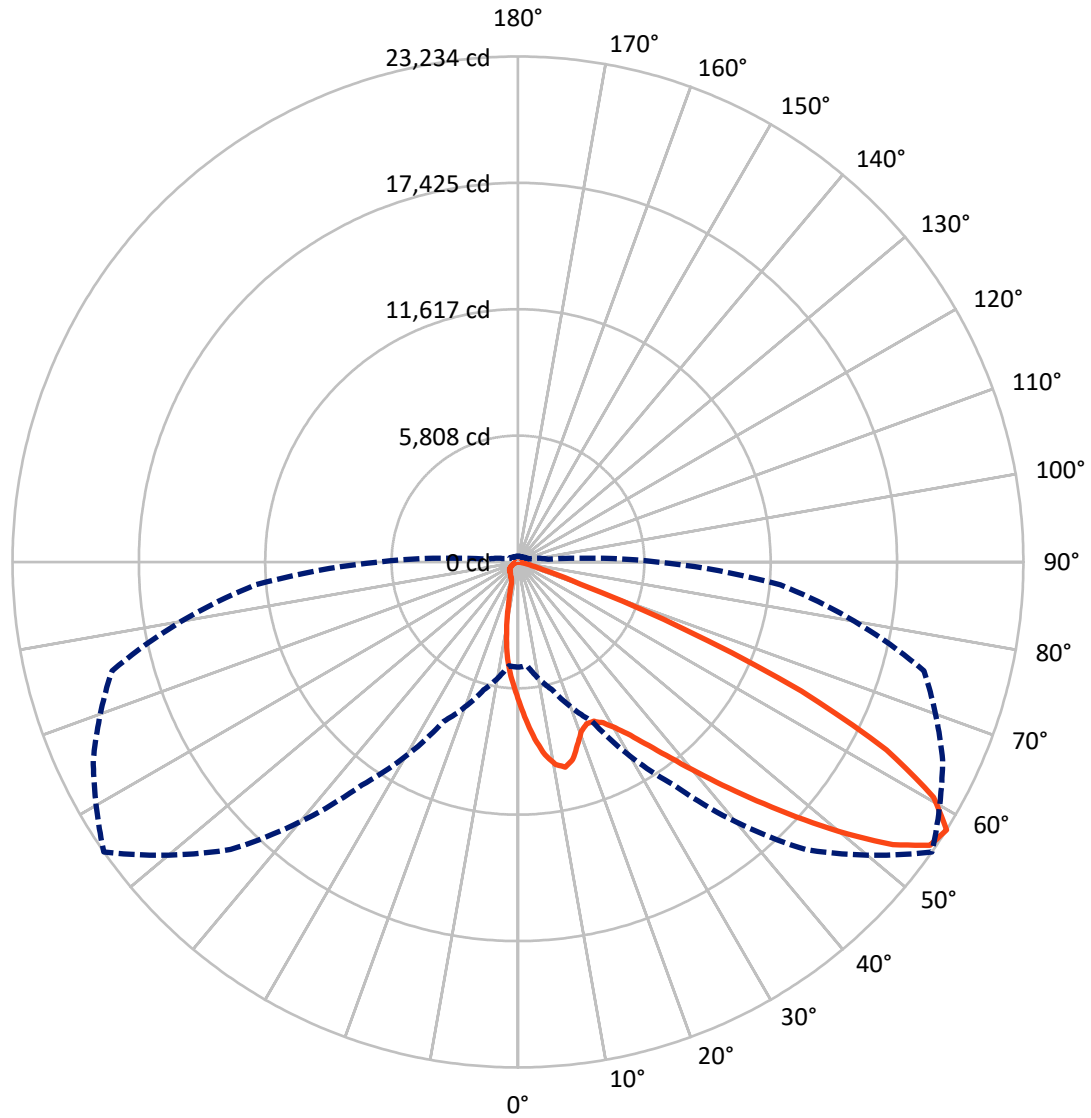
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 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	2078.8	0.0	2078.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	24540.2	0.0	24540.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	26619.0	0.0	26619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.8	2.2
10°-20°	1441.7	5.4
20°-30°	2306.6	8.7
30°-40°	3904.1	14.7
40°-50°	6409.7	24.1
50°-60°	7044.8	26.5
60°-70°	4040.9	15.2
70°-80°	825.7	3.1
80°-90°	48.7	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°	26619.0	100.0
0°-180°	26619.0	100.0

Coefficient of Utilization



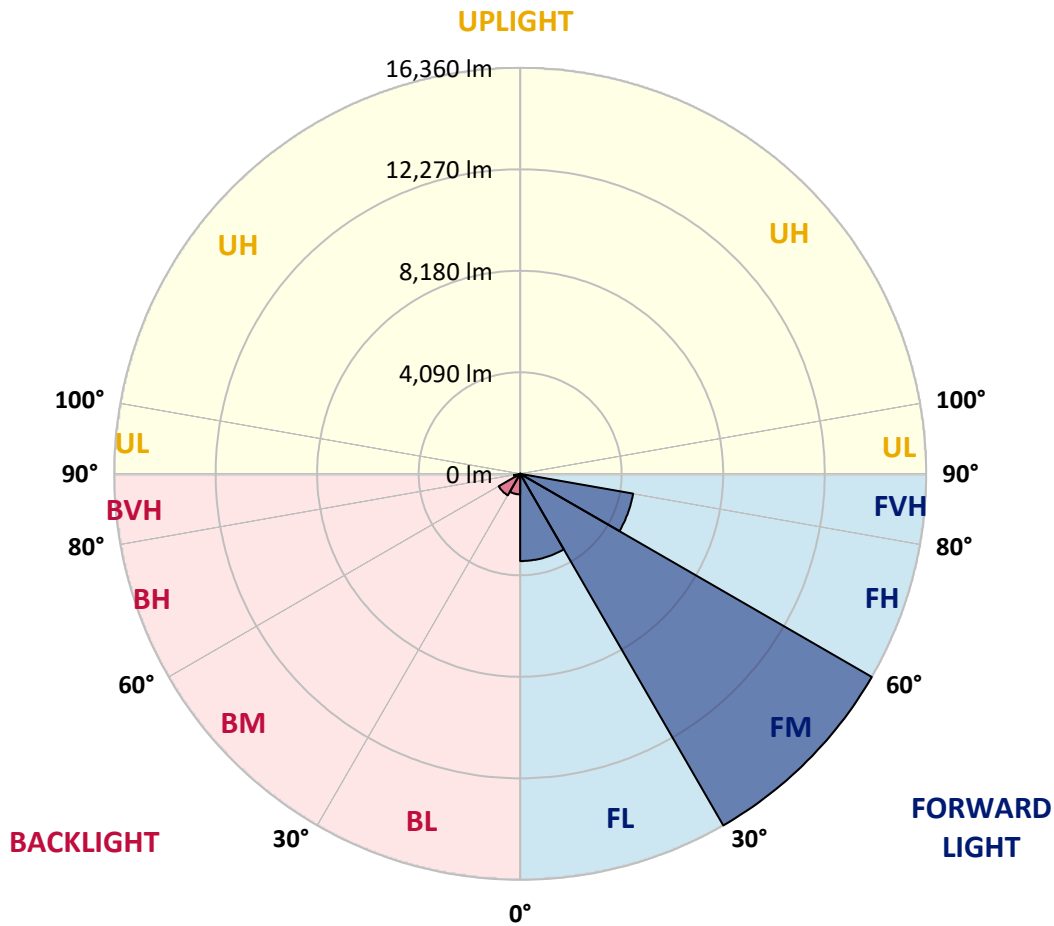
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3515.2	13.2			
FM (30°-60°)	16360.2	61.5			
FH (60°-80°)	4619.3	17.4			G2/5000
FVH (80°-90°)	45.4	0.2			G1/100
BL (0°-30°)	829.9	3.1	B2/1000		
BM (30°-60°)	998.4	3.8	B1/1000		
BH (60°-80°)	247.2	0.9	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6414.5	6414.5	6414.5	6414.5	6414.5	6414.5	6414.5	6414.5	6414.5	6414.5
2.5°	7959.1	7858.9	7844.2	7824.5	7634.1	7491.3	7284.5	7057.9	6803.5	6544.2
5°	9195.0	9116.2	9101.5	9009.5	8792.9	8550.0	8182.3	7717.8	7243.4	6685.4
7.5°	9434.7	9419.9	9487.2	9483.9	9454.4	9262.3	8952.1	8399.0	7686.6	6859.3
10°	8366.1	8403.9	8604.1	8779.8	9254.1	9529.9	9462.6	9006.3	8142.9	7057.9
12.5°	7392.8	7348.5	7491.3	7689.9	8241.4	9062.1	9674.3	9513.5	8664.9	7282.8
15°	6782.2	6764.1	6844.6	6936.5	7356.7	8183.9	9428.1	9925.4	9167.1	7548.7
17.5°	6586.9	6572.1	6596.7	6619.7	6892.2	7532.3	8842.1	10178.2	9648.0	7852.4
20°	6746.1	6726.4	6723.1	6705.0	6818.3	7254.9	8312.0	10196.3	10079.7	8128.1
22.5°	7210.6	7187.6	7107.2	7035.0	7044.8	7292.7	8075.6	10015.7	10404.7	8385.8
25°	8052.6	8014.9	7847.4	7604.5	7450.2	7555.3	8111.7	9777.7	10714.9	8587.7
27.5°	9106.4	9057.1	8842.1	8481.0	8128.1	8000.1	8372.7	9613.6	10972.6	8742.0
30°	10138.8	10074.8	9863.1	9582.4	9067.0	8663.2	8843.8	9685.8	11279.6	8902.9
32.5°	11253.3	11192.6	10911.9	10563.9	10137.2	9593.9	9488.8	10038.7	11655.5	9127.7
35°	12663.3	12568.1	12169.2	11694.9	11241.8	10692.0	10362.0	10647.6	12156.1	9470.8
37.5°	14268.5	14140.5	13710.5	13055.6	12464.7	11849.1	11425.7	11484.8	12889.8	9930.4
40°	15781.9	15665.4	15268.1	14651.0	13909.1	13162.2	12710.9	12579.6	13902.5	10490.1
42.5°	16689.6	16584.5	16417.1	16156.1	15530.8	14769.2	14199.6	13915.6	15100.7	11159.8
45°	16740.5	16648.5	16873.4	17177.1	17054.0	16546.8	15852.5	15332.2	16303.9	11788.4
47.5°	15926.3	15864.0	16546.8	17607.1	18135.6	18349.0	17708.9	16630.5	17296.9	12239.8
50°	13707.2	13684.2	15089.2	17035.9	18547.6	19928.0	19667.0	17838.5	18066.7	12472.9
52.5°	11885.3	11801.5	12620.6	15207.4	17948.5	20758.6	21580.9	19023.6	18605.1	12517.2
55°	9014.5	8940.6	9968.1	12147.9	16016.6	20463.1	22981.0	20246.5	18990.8	12403.9
57.5°	4835.5	4789.6	6087.9	8085.5	12520.5	18690.4	23233.8	21539.9	19315.8	12103.6
60°	1882.7	1874.5	2360.3	3922.9	7609.4	15205.8	21958.4	22316.2	19519.3	11734.2
62.5°	1139.1	1163.7	1242.5	1761.2	3361.6	9446.2	19018.7	21433.2	19655.6	11396.1
65°	942.2	943.8	953.6	1209.7	1610.2	3952.4	14317.8	18527.9	19319.1	10793.7
67.5°	807.6	822.3	860.1	960.2	1135.8	1733.3	8243.0	14352.2	17272.3	9392.0
70°	636.9	656.6	704.2	789.5	876.5	1085.0	3046.4	9549.6	13195.1	7079.3
72.5°	536.7	535.1	559.7	641.8	695.9	763.2	1171.9	5350.9	7668.5	3379.6
75°	415.3	431.7	462.9	536.7	569.6	553.1	635.2	1954.9	2747.7	1024.2
77.5°	325.0	338.1	366.0	438.2	471.1	392.3	366.0	699.2	883.1	367.7
80°	146.1	157.6	249.5	323.4	384.1	270.8	198.6	357.8	392.3	167.4
82.5°	26.3	44.3	146.1	170.7	197.0	175.6	103.4	185.5	192.0	67.3
85°	1.6	3.3	50.9	62.4	78.8	57.4	31.2	73.9	64.0	23.0
87.5°	0.0	0.0	0.0	1.6	1.6	8.2	9.8	13.1	9.8	8.2
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°
6414.5	0°	6414.5	6414.5	6414.5	6414.5	6414.5	6414.5	6414.5	6414.5	6414.5	6414.5
6429.3	2.5°	6311.1	6078.0	5851.5	5666.1	5557.7	5373.9	5252.4	5232.7	5181.8	5226.2
6445.7	5°	6189.7	5772.7	5350.9	4973.4	4663.2	4262.7	3963.9	3837.6	3727.6	3765.3
6488.4	7.5°	6132.2	5474.0	4817.5	4172.4	3509.3	2869.1	2393.1	2194.5	2043.5	2064.9
6536.0	10°	6055.1	5163.8	4134.6	3149.8	2261.8	1629.9	1301.6	1180.2	1112.9	1114.5
6606.6	12.5°	5996.0	4792.8	3341.9	2135.4	1377.1	1040.6	938.9	909.3	889.6	891.3
6713.3	15°	5966.4	4356.2	2558.9	1423.1	984.8	881.4	856.8	843.7	830.5	828.9
6831.4	17.5°	5917.2	3870.4	1872.8	1039.0	861.7	825.6	804.3	789.5	773.1	769.8
6933.2	20°	5843.3	3318.9	1368.9	878.1	807.6	779.7	750.1	730.4	710.7	707.4
6997.2	22.5°	5707.1	2736.2	1052.1	812.5	768.2	737.0	700.9	677.9	658.2	654.9
6966.0	25°	5454.3	2189.6	886.3	771.4	733.7	695.9	656.6	625.4	607.3	604.0
6898.7	27.5°	5134.2	1720.2	804.3	733.7	689.4	654.9	610.6	581.0	564.6	561.4
6810.1	30°	4756.7	1324.6	756.7	691.0	636.9	607.3	567.9	543.3	533.4	533.4
6747.7	32.5°	4349.7	1058.7	737.0	648.3	590.9	558.1	526.9	517.0	513.8	512.1
6782.2	35°	3967.2	919.2	727.1	613.9	549.9	518.7	505.5	507.2	513.8	513.8
6888.9	37.5°	3627.5	874.9	722.2	589.3	513.8	485.8	494.1	508.8	502.3	502.3
7076.0	40°	3320.5	879.8	718.9	571.2	484.2	467.8	484.2	472.7	456.3	454.7
7304.2	42.5°	3085.8	920.8	712.4	556.4	466.2	454.7	448.1	430.0	428.4	431.7
7540.5	45°	2915.1	956.9	710.7	549.9	446.5	425.1	416.9	398.9	431.7	439.9
7637.4	47.5°	2713.2	956.9	710.7	526.9	413.6	405.4	392.3	372.6	405.4	413.6
7545.4	50°	2452.2	896.2	682.8	500.6	387.4	382.4	359.5	334.8	328.3	333.2
7330.4	52.5°	2122.3	786.2	612.2	464.5	361.1	351.3	323.4	305.3	300.4	300.4
6944.7	55°	1746.4	658.2	517.0	412.0	333.2	315.1	295.4	287.2	282.3	279.0
6404.7	57.5°	1419.8	540.0	415.3	366.0	306.9	284.0	277.4	267.5	259.3	254.4
5953.3	60°	1165.4	425.1	343.0	325.0	280.7	259.3	257.7	244.6	223.2	219.9
5580.7	62.5°	899.5	311.9	288.9	282.3	254.4	236.4	233.1	206.8	174.0	167.4
5052.2	65°	635.2	242.9	233.1	247.8	226.5	210.1	201.9	162.5	128.0	123.1
4228.2	67.5°	446.5	203.5	183.8	216.7	197.0	175.6	170.7	137.9	106.7	103.4
3197.4	70°	318.4	165.8	151.0	185.5	157.6	154.3	144.4	114.9	87.0	83.7
1582.3	72.5°	224.9	126.4	116.5	160.9	108.3	133.0	118.2	88.6	65.7	62.4
538.4	75°	165.8	90.3	82.1	93.6	78.8	100.1	83.7	59.1	41.0	39.4
242.9	77.5°	121.5	57.4	49.2	46.0	46.0	62.4	46.0	24.6	18.1	16.4
123.1	80°	85.4	26.3	23.0	19.7	18.1	14.8	6.6	3.3	1.6	1.6
42.7	82.5°	50.9	11.5	11.5	8.2	4.9	0.0	0.0	0.0	0.0	0.0
16.4	85°	11.5	4.9	4.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0
6.6	87.5°	1.6	1.6	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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