

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: P951951

Luminaire Tested: **GALN-SB5D-950-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951951
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-SB5D-950-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 900mA 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: 30489 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

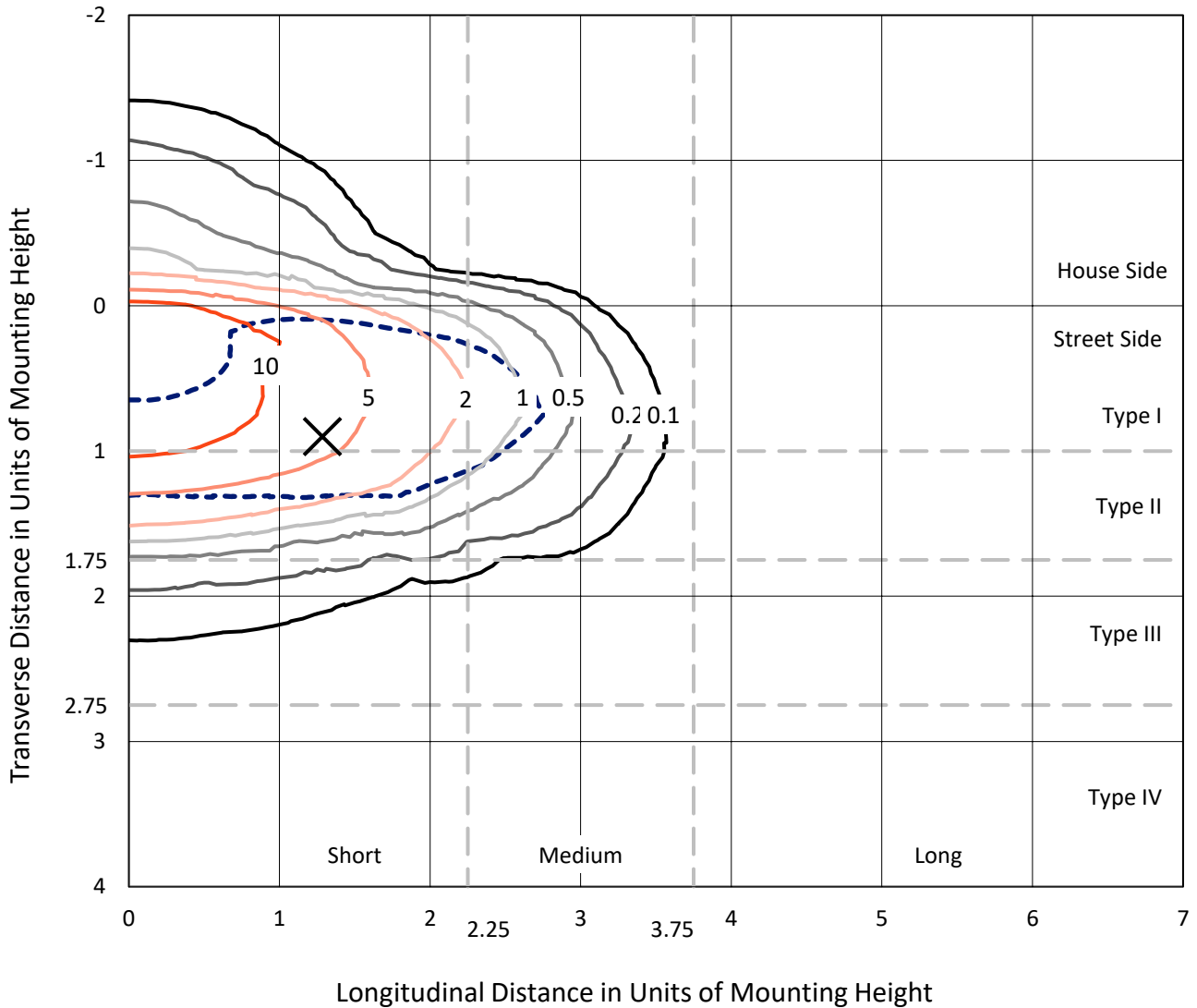
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

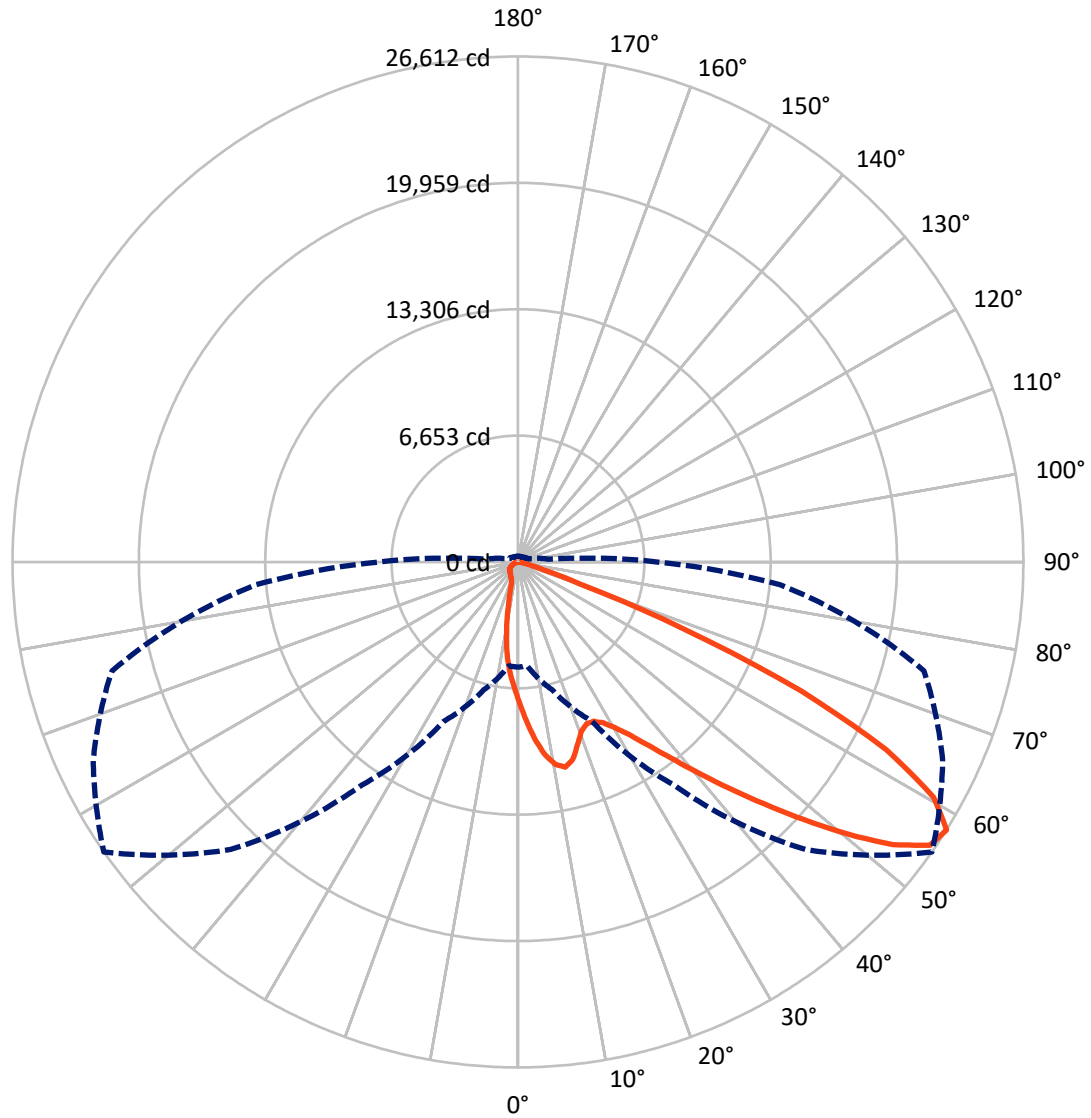
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 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	2381.1	0.0	2381.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	28107.9	0.0	28107.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	30489.0	0.0	30489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	683.6	2.2
10°-20°	1651.3	5.4
20°-30°	2642.0	8.7
30°-40°	4471.7	14.7
40°-50°	7341.6	24.1
50°-60°	8069.0	26.5
60°-70°	4628.4	15.2
70°-80°	945.7	3.1
80°-90°	55.8	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°	30489.0	100.0
0°-180°	30489.0	100.0

Coefficient of Utilization



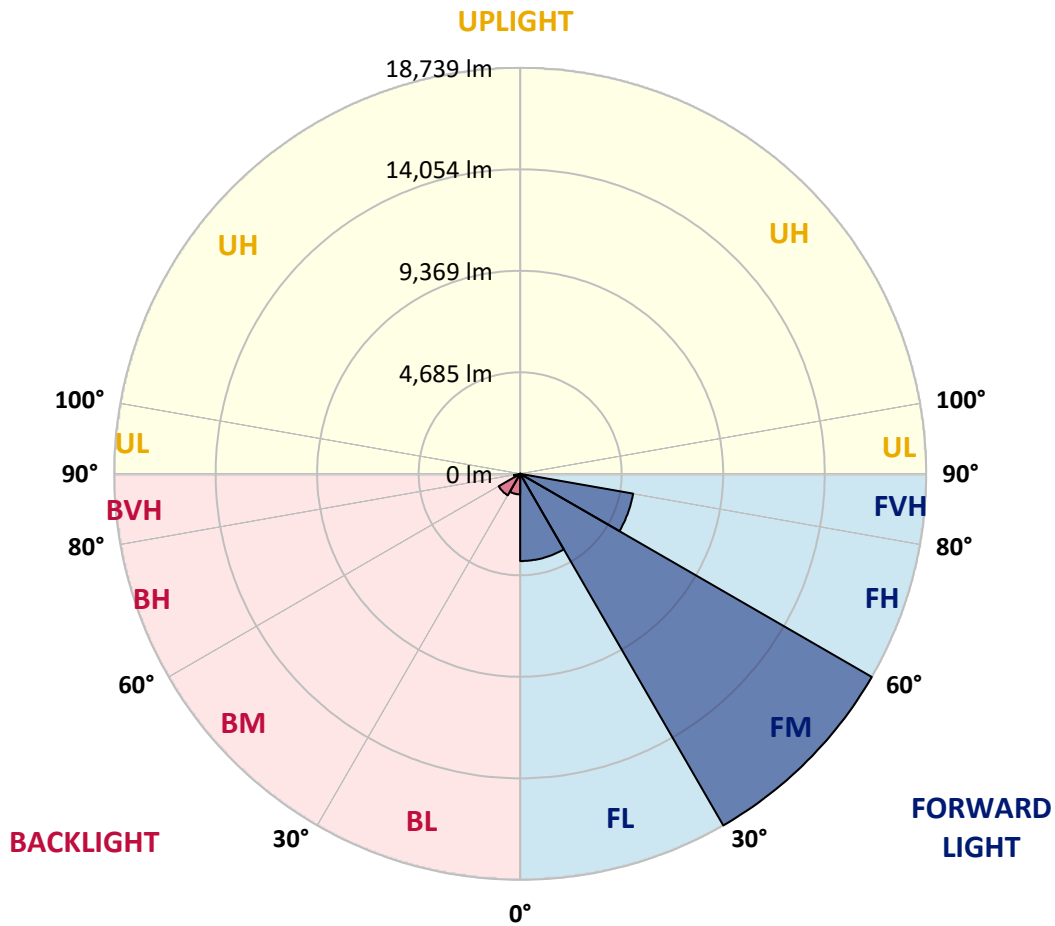
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4026.3	13.2			
FM (30°-60°)	18738.8	61.5			
FH (60°-80°)	5290.9	17.4			G3/7500
FVH (80°-90°)	52.0	0.2			G1/100
BL (0°-30°)	950.6	3.1	B2/1000		
BM (30°-60°)	1143.5	3.8	B2/2500		
BH (60°-80°)	283.2	0.9	B1/500		G1/500
BVH (80°-90°)	3.8	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°	7347.1	7347.1	7347.1	7347.1	7347.1	7347.1	7347.1	7347.1	7347.1	7347.1
2.5°	9116.2	9001.5	8984.6	8962.0	8743.9	8580.4	8343.5	8084.1	7792.7	7495.6
5°	10531.8	10441.6	10424.7	10319.4	10071.2	9793.0	9371.9	8839.8	8296.5	7657.3
7.5°	10806.3	10789.4	10866.5	10862.7	10828.9	10608.9	10253.6	9620.0	8804.1	7856.6
10°	9582.4	9625.7	9855.0	10056.2	10599.5	10915.4	10838.3	10315.6	9326.8	8084.1
12.5°	8467.6	8416.8	8580.4	8807.9	9439.6	10379.6	11080.8	10896.6	9924.6	8341.6
15°	7768.2	7747.5	7839.7	7944.9	8426.2	9373.8	10798.8	11368.4	10499.9	8646.2
17.5°	7544.5	7527.6	7555.8	7582.1	7894.2	8627.4	10127.6	11658.0	11050.7	8994.0
20°	7726.9	7704.3	7700.5	7679.9	7809.6	8309.7	9520.4	11678.7	11545.2	9309.8
22.5°	8258.9	8232.6	8140.5	8057.7	8069.0	8352.9	9249.7	11471.8	11917.4	9605.0
25°	9223.4	9180.1	8988.4	8710.1	8533.4	8653.7	9291.0	11199.2	12272.7	9836.2
27.5°	10430.3	10373.9	10127.6	9714.0	9309.8	9163.2	9590.0	11011.2	12567.9	10013.0
30°	11612.9	11539.5	11297.0	10975.5	10385.2	9922.7	10129.5	11094.0	12919.5	10197.2
32.5°	12889.4	12819.8	12498.3	12099.8	11611.0	10988.7	10868.4	11498.2	13350.0	10454.8
35°	14504.3	14395.3	13938.4	13395.1	12876.2	12246.4	11868.5	12195.7	13923.4	10847.7
37.5°	16343.0	16196.3	15703.8	14953.6	14276.8	13571.8	13086.8	13154.5	14763.8	11374.1
40°	18076.3	17942.9	17487.9	16781.0	15931.2	15075.8	14558.8	14408.4	15923.7	12015.2
42.5°	19116.0	18995.7	18803.9	18505.0	17788.7	16916.4	16264.0	15938.8	17296.1	12782.2
45°	19174.3	19069.0	19326.6	19674.4	19533.4	18952.4	18157.2	17561.2	18674.2	13502.3
47.5°	18241.8	18170.3	18952.4	20166.9	20772.3	21016.7	20283.5	19048.3	19811.6	14019.3
50°	15700.0	15673.7	17283.0	19512.7	21244.2	22825.3	22526.3	20432.0	20693.3	14286.2
52.5°	13613.2	13517.3	14455.4	17418.3	20558.0	23776.5	24718.4	21789.4	21310.0	14337.0
55°	10325.0	10240.4	11417.3	13914.0	18345.2	23438.1	26322.1	23190.0	21751.8	14207.3
57.5°	5538.5	5485.9	6973.0	9261.0	14340.8	21407.7	26611.6	24671.4	22124.0	13863.2
60°	2156.4	2147.0	2703.5	4493.2	8715.7	17416.5	25150.8	25560.7	22357.1	13440.2
62.5°	1304.7	1332.9	1423.2	2017.3	3850.3	10819.5	21783.7	24549.2	22513.2	13052.9
65°	1079.1	1081.0	1092.3	1385.6	1844.3	4527.1	16399.4	21221.6	22127.8	12363.0
67.5°	925.0	941.9	985.1	1099.8	1301.0	1985.3	9441.4	16438.8	19783.4	10757.4
70°	729.4	752.0	806.5	904.3	1003.9	1242.7	3489.3	10937.9	15113.4	8108.5
72.5°	614.8	612.9	641.1	735.1	797.1	874.2	1342.3	6128.8	8783.4	3871.0
75°	475.6	494.4	530.2	614.8	652.4	633.6	727.6	2239.1	3147.1	1173.1
77.5°	372.2	387.3	419.2	502.0	539.6	449.3	419.2	800.9	1011.4	421.1
80°	167.3	180.5	285.8	370.4	439.9	310.2	227.5	409.8	449.3	191.8
82.5°	30.1	50.8	167.3	195.5	225.6	201.2	118.4	212.4	220.0	77.1
85°	1.9	3.8	58.3	71.4	90.2	65.8	35.7	84.6	73.3	26.3
87.5°	0.0	0.0	0.0	1.9	1.9	9.4	11.3	15.0	11.3	9.4
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°
7347.1	0°	7347.1	7347.1	7347.1	7347.1	7347.1	7347.1	7347.1	7347.1	7347.1	7347.1
7364.0	2.5°	7228.7	6961.7	6702.3	6489.8	6365.7	6155.2	6016.0	5993.5	5935.2	5986.0
7382.8	5°	7089.5	6612.0	6128.8	5696.4	5341.1	4882.4	4540.2	4395.5	4269.5	4312.8
7431.7	7.5°	7023.7	6269.8	5517.8	4779.0	4019.5	3286.3	2741.1	2513.6	2340.6	2365.1
7486.2	10°	6935.4	5914.5	4735.8	3607.7	2590.7	1866.9	1490.9	1351.7	1274.6	1276.5
7567.1	12.5°	6867.7	5489.6	3827.7	2445.9	1577.3	1191.9	1075.4	1041.5	1019.0	1020.8
7689.3	15°	6833.9	4989.6	2930.9	1630.0	1128.0	1009.6	981.4	966.3	951.3	949.4
7824.6	17.5°	6777.5	4433.1	2145.1	1190.0	987.0	945.6	921.2	904.3	885.5	881.7
7941.2	20°	6692.9	3801.4	1567.9	1005.8	925.0	893.0	859.2	836.6	814.0	810.3
8014.5	22.5°	6536.8	3134.0	1205.1	930.6	879.8	844.1	802.8	776.4	753.9	750.1
7978.8	25°	6247.3	2507.9	1015.2	883.6	840.4	797.1	752.0	716.3	695.6	691.8
7901.7	27.5°	5880.7	1970.3	921.2	840.4	789.6	750.1	699.4	665.5	646.7	643.0
7800.2	30°	5448.3	1517.2	866.7	791.5	729.4	695.6	650.5	622.3	611.0	611.0
7728.7	32.5°	4982.0	1212.6	844.1	742.6	676.8	639.2	603.5	592.2	588.4	586.6
7768.2	35°	4544.0	1052.8	832.8	703.1	629.8	594.1	579.0	580.9	588.4	588.4
7890.4	37.5°	4154.8	1002.0	827.2	674.9	588.4	556.5	565.9	582.8	575.3	575.3
8104.7	40°	3803.3	1007.7	823.4	654.2	554.6	535.8	554.6	541.4	522.6	520.8
8366.1	42.5°	3534.4	1054.7	815.9	637.3	533.9	520.8	513.2	492.6	490.7	494.4
8636.8	45°	3338.9	1096.0	814.0	629.8	511.4	486.9	477.5	456.8	494.4	503.8
8747.7	47.5°	3107.7	1096.0	814.0	603.5	473.8	464.4	449.3	426.8	464.4	473.8
8642.4	50°	2808.7	1026.5	782.1	573.4	443.7	438.0	411.7	383.5	376.0	381.6
8396.1	52.5°	2430.9	900.5	701.2	532.0	413.6	402.3	370.4	349.7	344.0	344.0
7954.3	55°	2000.3	753.9	592.2	471.9	381.6	361.0	338.4	329.0	323.4	319.6
7335.8	57.5°	1626.2	618.5	475.6	419.2	351.6	325.2	317.7	306.4	297.0	291.4
6818.8	60°	1334.8	486.9	392.9	372.2	321.5	297.0	295.2	280.1	255.7	251.9
6392.1	62.5°	1030.2	357.2	330.9	323.4	291.4	270.7	267.0	236.9	199.3	191.8
5786.7	65°	727.6	278.2	267.0	283.9	259.4	240.6	231.2	186.1	146.6	141.0
4842.9	67.5°	511.4	233.1	210.6	248.2	225.6	201.2	195.5	157.9	122.2	118.4
3662.3	70°	364.7	189.9	173.0	212.4	180.5	176.7	165.4	131.6	99.6	95.9
1812.3	72.5°	257.6	144.8	133.5	184.2	124.1	152.3	135.4	101.5	75.2	71.4
616.6	75°	189.9	103.4	94.0	107.2	90.2	114.7	95.9	67.7	47.0	45.1
278.2	77.5°	139.1	65.8	56.4	52.6	52.6	71.4	52.6	28.2	20.7	18.8
141.0	80°	97.8	30.1	26.3	22.6	20.7	16.9	7.5	3.8	1.9	1.9
48.9	82.5°	58.3	13.2	13.2	9.4	5.6	0.0	0.0	0.0	0.0	0.0
18.8	85°	13.2	5.6	5.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0
7.5	87.5°	1.9	1.9	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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