

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: P951426

Luminaire Tested: **GALN-SB5C-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951426
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-SB5C-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA 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: 28983 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

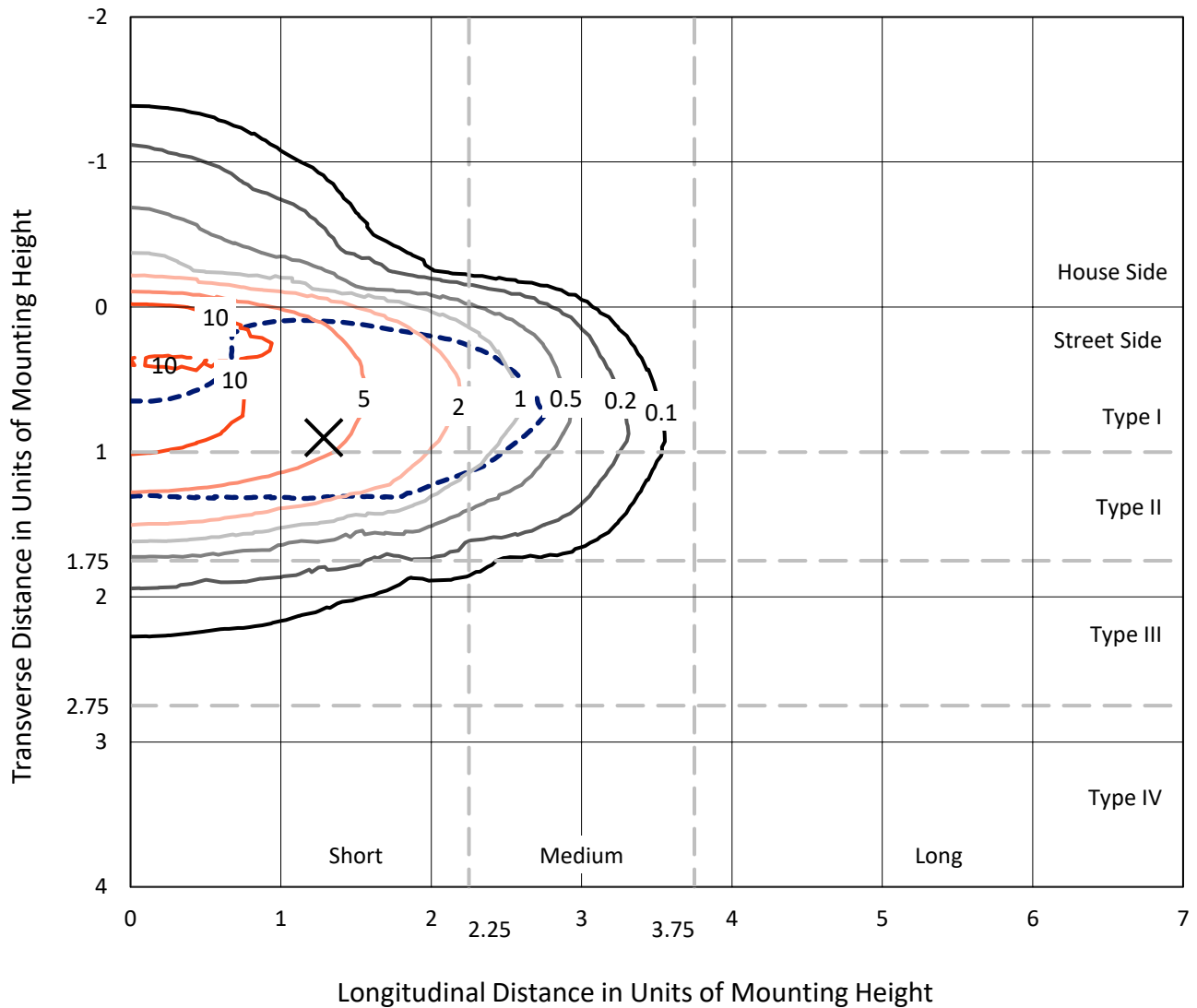
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

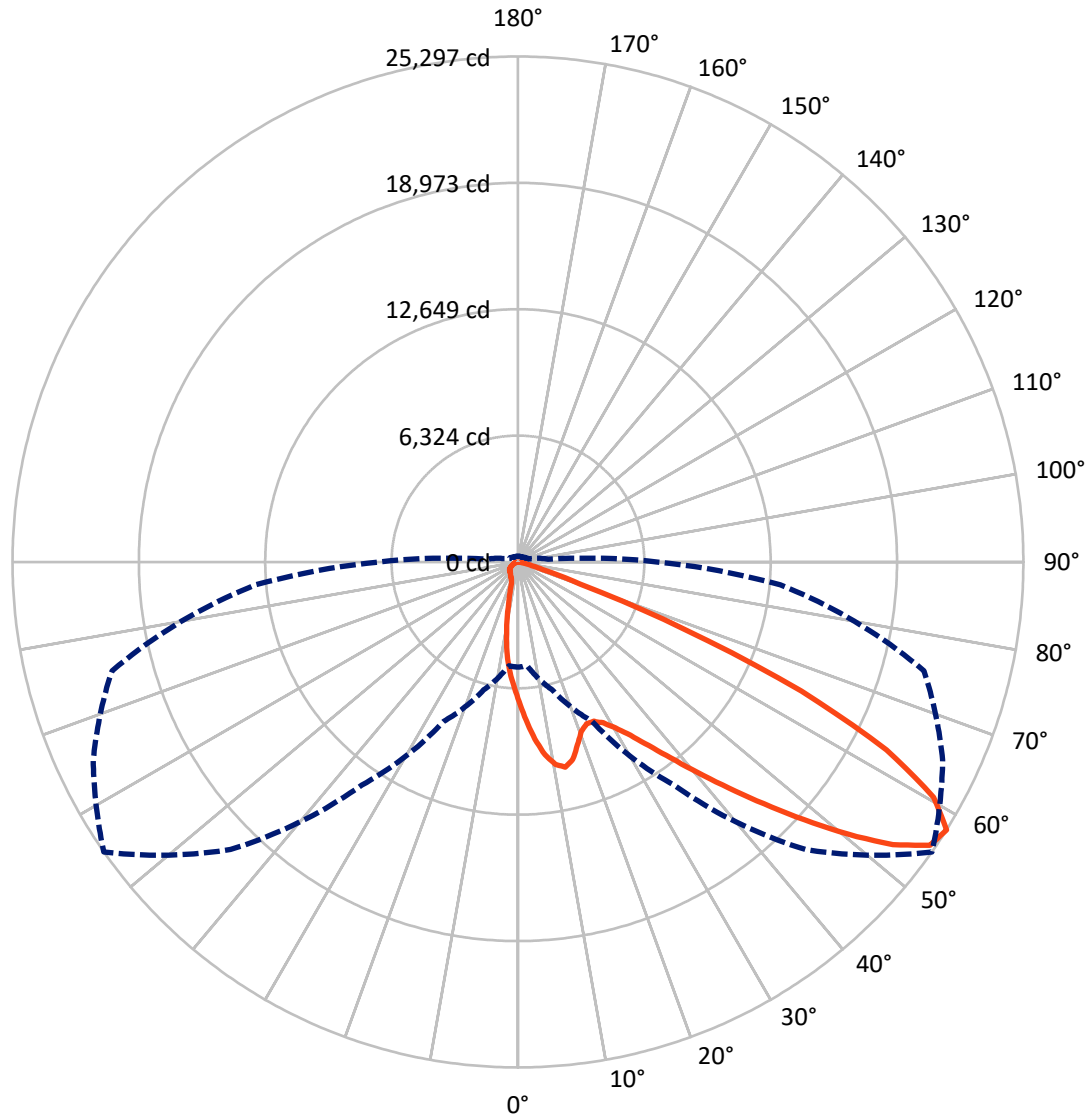
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 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	2263.5	0.0	2263.5
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	26719.5	0.0	26719.5
	% Fixture	92.2	0.0	92.2
Total	Lumens	28983.0	0.0	28983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.8	2.2
10°-20°	1569.7	5.4
20°-30°	2511.5	8.7
30°-40°	4250.8	14.7
40°-50°	6979.0	24.1
50°-60°	7670.4	26.5
60°-70°	4399.7	15.2
70°-80°	899.0	3.1
80°-90°	53.0	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°	28983.0	100.0
0°-180°	28983.0	100.0

Coefficient of Utilization



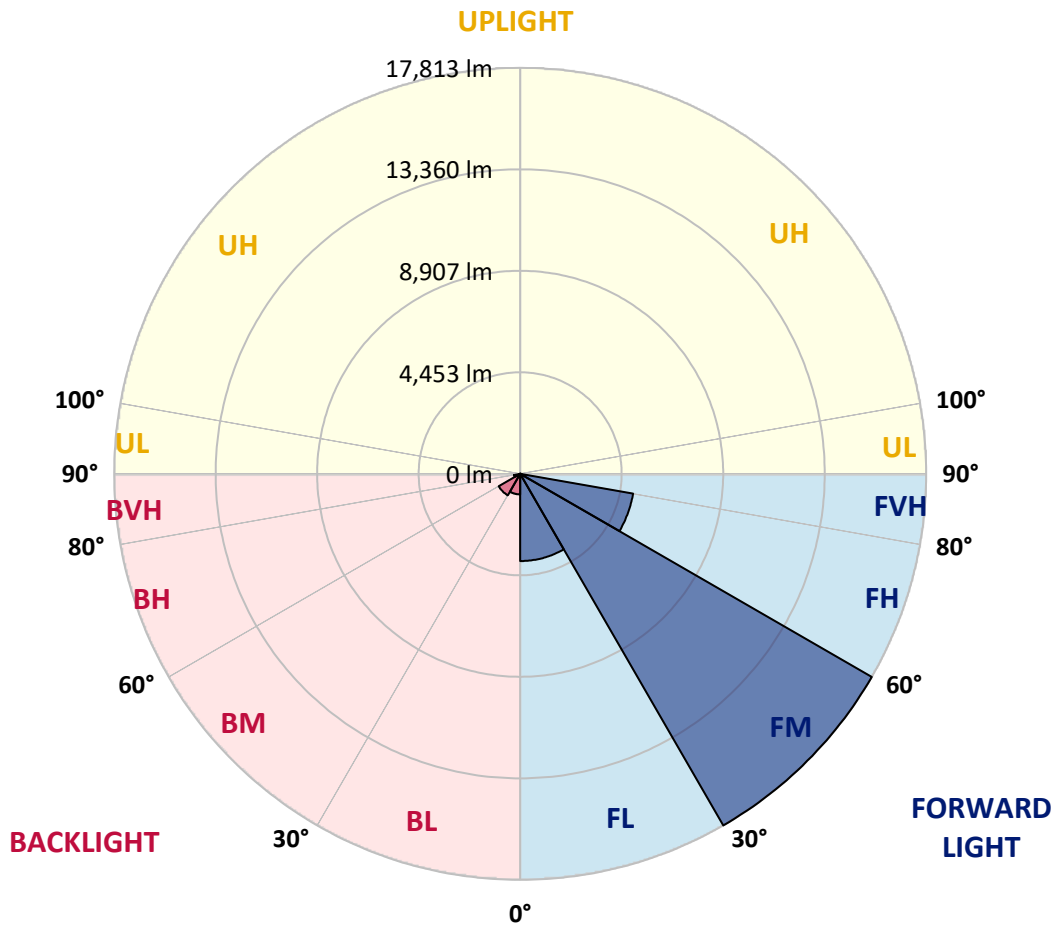
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3827.4	13.2			
FM (30°-60°)	17813.2	61.5			
FH (60°-80°)	5029.5	17.4			G3/7500
FVH (80°-90°)	49.5	0.2			G1/100
BL (0°-30°)	903.6	3.1	B2/1000		
BM (30°-60°)	1087.1	3.8	B2/2500		
BH (60°-80°)	269.2	0.9	B1/500		G1/500
BVH (80°-90°)	3.6	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°	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2
2.5°	8665.9	8556.9	8540.8	8519.4	8312.0	8156.6	7931.4	7684.8	7407.7	7125.4
5°	10011.6	9925.8	9909.8	9809.7	9573.8	9309.3	8909.0	8403.2	7886.7	7279.1
7.5°	10272.5	10256.5	10329.7	10326.2	10294.0	10084.9	9747.1	9144.9	8369.2	7468.5
10°	9109.1	9150.2	9368.2	9559.5	10076.0	10376.2	10302.9	9806.1	8866.1	7684.8
12.5°	8049.3	8001.1	8156.6	8372.8	8973.3	9866.9	10533.5	10358.3	9434.4	7929.6
15°	7384.5	7364.9	7452.4	7552.5	8010.0	8910.7	10265.4	10806.9	9981.2	8219.1
17.5°	7171.8	7155.8	7182.6	7207.6	7504.2	8201.2	9627.4	11082.1	10504.9	8549.7
20°	7345.2	7323.7	7320.2	7300.5	7423.8	7899.2	9050.1	11101.8	10974.9	8850.0
22.5°	7851.0	7825.9	7738.4	7659.7	7670.5	7940.3	8792.8	10905.2	11328.8	9130.6
25°	8767.8	8726.7	8544.4	8279.9	8111.9	8226.3	8832.1	10646.1	11666.5	9350.4
27.5°	9915.1	9861.5	9627.4	9234.2	8850.0	8710.6	9116.3	10467.3	11947.1	9518.4
30°	11039.2	10969.5	10739.0	10433.4	9872.2	9432.6	9629.2	10546.0	12281.3	9693.5
32.5°	12252.7	12186.6	11881.0	11502.1	11037.4	10445.9	10331.5	10930.2	12690.6	9938.4
35°	13787.9	13684.2	13249.9	12733.5	12240.2	11641.5	11282.3	11593.3	13235.6	10311.9
37.5°	15535.7	15396.3	14928.1	14215.0	13571.6	12901.4	12440.4	12504.7	14034.5	10812.3
40°	17183.5	17056.6	16624.1	15952.1	15144.3	14331.2	13839.7	13696.7	15137.2	11421.7
42.5°	18171.8	18057.4	17875.1	17590.9	16910.0	16080.8	15460.6	15151.5	16441.8	12150.8
45°	18227.2	18127.1	18371.9	18702.5	18568.5	18016.3	17260.3	16693.8	17751.8	12835.3
47.5°	17340.7	17272.8	18016.3	19170.8	19746.2	19978.6	19281.6	18107.4	18833.0	13326.8
50°	14924.5	14899.5	16429.3	18548.8	20194.8	21697.8	21413.7	19422.8	19671.2	13580.6
52.5°	12940.8	12849.6	13741.4	16558.0	19542.5	22602.1	23497.5	20713.1	20257.4	13628.8
55°	9815.0	9734.6	10853.4	13226.7	17439.0	22280.4	25021.9	22044.5	20677.3	13505.5
57.5°	5264.9	5214.9	6628.5	8803.5	13632.4	20350.3	25297.1	23452.8	21031.2	13178.5
60°	2049.9	2040.9	2569.9	4271.3	8285.2	16556.2	23908.5	24298.1	21252.8	12776.3
62.5°	1240.3	1267.1	1352.9	1917.6	3660.1	10285.1	20707.7	23336.6	21401.1	12408.2
65°	1025.8	1027.6	1038.3	1317.1	1753.2	4303.5	15589.3	20173.4	21034.8	11752.3
67.5°	879.3	895.4	936.5	1045.5	1236.7	1887.2	8975.1	15626.9	18806.2	10226.1
70°	693.4	714.9	766.7	859.6	954.3	1181.3	3317.0	10397.6	14366.9	7708.0
72.5°	584.4	582.6	609.4	698.8	757.8	831.0	1276.0	5826.1	8349.6	3679.7
75°	452.1	470.0	504.0	584.4	620.1	602.3	691.6	2128.5	2991.7	1115.2
77.5°	353.9	368.2	398.5	477.2	512.9	427.1	398.5	761.3	961.5	400.3
80°	159.1	171.6	271.6	352.1	418.2	294.9	216.2	389.6	427.1	182.3
82.5°	28.6	48.3	159.1	185.9	214.5	191.2	112.6	201.9	209.1	73.3
85°	1.8	3.6	55.4	67.9	85.8	62.6	34.0	80.4	69.7	25.0
87.5°	0.0	0.0	0.0	1.8	1.8	8.9	10.7	14.3	10.7	8.9
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°
6984.2	0°	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2	6984.2
7000.3	2.5°	6871.6	6617.8	6371.2	6169.2	6051.3	5851.1	5718.9	5697.4	5642.0	5690.3
7018.1	5°	6739.3	6285.4	5826.1	5415.1	5077.3	4641.2	4316.0	4178.4	4058.6	4099.7
7064.6	7.5°	6676.8	5960.2	5245.3	4542.9	3820.9	3123.9	2605.7	2389.4	2225.0	2248.2
7116.4	10°	6592.8	5622.4	4501.8	3429.5	2462.7	1774.6	1417.2	1285.0	1211.7	1213.5
7193.3	12.5°	6528.5	5218.5	3638.6	2325.1	1499.4	1133.1	1022.3	990.1	968.6	970.4
7309.5	15°	6496.3	4743.1	2786.2	1549.5	1072.3	959.7	932.9	918.6	904.3	902.5
7438.1	17.5°	6442.7	4214.1	2039.1	1131.3	938.3	898.9	875.7	859.6	841.7	838.2
7548.9	20°	6362.3	3613.6	1490.5	956.1	879.3	848.9	816.7	795.3	773.8	770.3
7618.6	22.5°	6213.9	2979.2	1145.6	884.6	836.4	802.4	763.1	738.1	716.6	713.1
7584.7	25°	5938.7	2384.1	965.1	840.0	798.9	757.8	714.9	680.9	661.2	657.7
7511.4	27.5°	5590.2	1872.9	875.7	798.9	750.6	713.1	664.8	632.7	614.8	611.2
7414.9	30°	5179.2	1442.2	823.9	752.4	693.4	661.2	618.4	591.5	580.8	580.8
7347.0	32.5°	4736.0	1152.7	802.4	705.9	643.4	607.6	573.7	563.0	559.4	557.6
7384.5	35°	4319.5	1000.8	791.7	668.4	598.7	564.7	550.4	552.2	559.4	559.4
7500.7	37.5°	3949.6	952.6	786.3	641.6	559.4	529.0	537.9	554.0	546.9	546.9
7704.4	40°	3615.4	957.9	782.8	621.9	527.2	509.3	527.2	514.7	496.8	495.0
7952.8	42.5°	3359.8	1002.6	775.6	605.8	507.6	495.0	487.9	468.2	466.4	470.0
8210.2	45°	3174.0	1041.9	773.8	598.7	486.1	462.9	453.9	434.3	470.0	479.0
8315.6	47.5°	2954.2	1041.9	773.8	573.7	450.4	441.4	427.1	405.7	441.4	450.4
8215.5	50°	2670.0	975.8	743.5	545.1	421.8	416.4	391.4	364.6	357.4	362.8
7981.4	52.5°	2310.8	856.0	666.6	505.8	393.2	382.5	352.1	332.4	327.0	327.0
7561.4	55°	1901.5	716.6	563.0	448.6	362.8	343.1	321.7	312.8	307.4	303.8
6973.5	57.5°	1545.9	588.0	452.1	398.5	334.2	309.2	302.0	291.3	282.4	277.0
6482.0	60°	1268.9	462.9	373.5	353.9	305.6	282.4	280.6	266.3	243.1	239.5
6076.3	62.5°	979.4	339.6	314.5	307.4	277.0	257.3	253.8	225.2	189.4	182.3
5500.9	65°	691.6	264.5	253.8	269.9	246.6	228.8	219.8	176.9	139.4	134.0
4603.7	67.5°	486.1	221.6	200.2	235.9	214.5	191.2	185.9	150.1	116.2	112.6
3481.4	70°	346.7	180.5	164.4	201.9	171.6	168.0	157.3	125.1	94.7	91.1
1722.8	72.5°	244.8	137.6	126.9	175.1	118.0	144.8	128.7	96.5	71.5	67.9
586.2	75°	180.5	98.3	89.4	101.9	85.8	109.0	91.1	64.3	44.7	42.9
264.5	77.5°	132.2	62.6	53.6	50.0	50.0	67.9	50.0	26.8	19.7	17.9
134.0	80°	92.9	28.6	25.0	21.4	19.7	16.1	7.1	3.6	1.8	1.8
46.5	82.5°	55.4	12.5	12.5	8.9	5.4	0.0	0.0	0.0	0.0	0.0
17.9	85°	12.5	5.4	5.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0
7.1	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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