

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: P948213

Luminaire Tested: **GALN-SB3B-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948213
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-SB3B-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 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: 12944 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

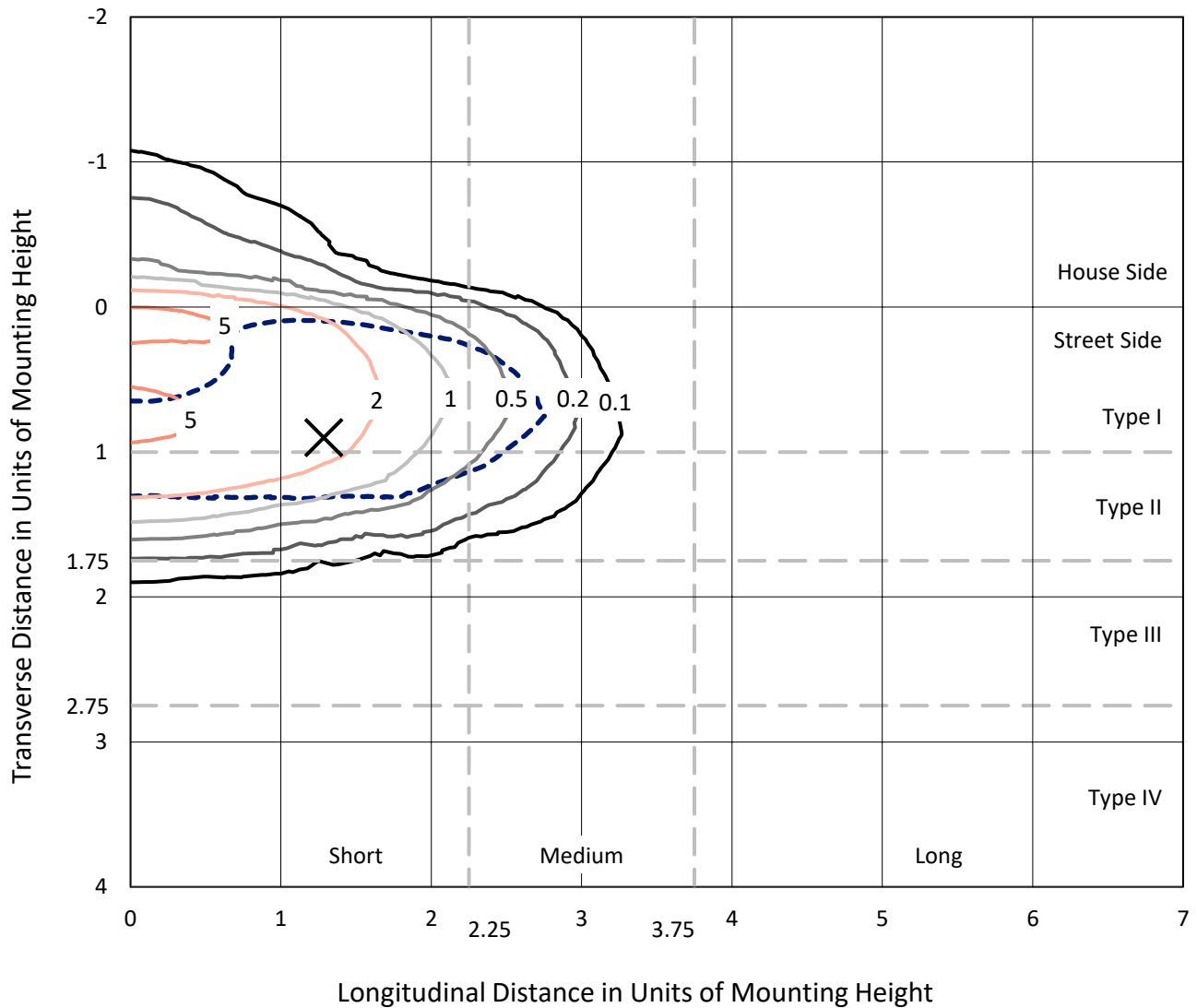
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

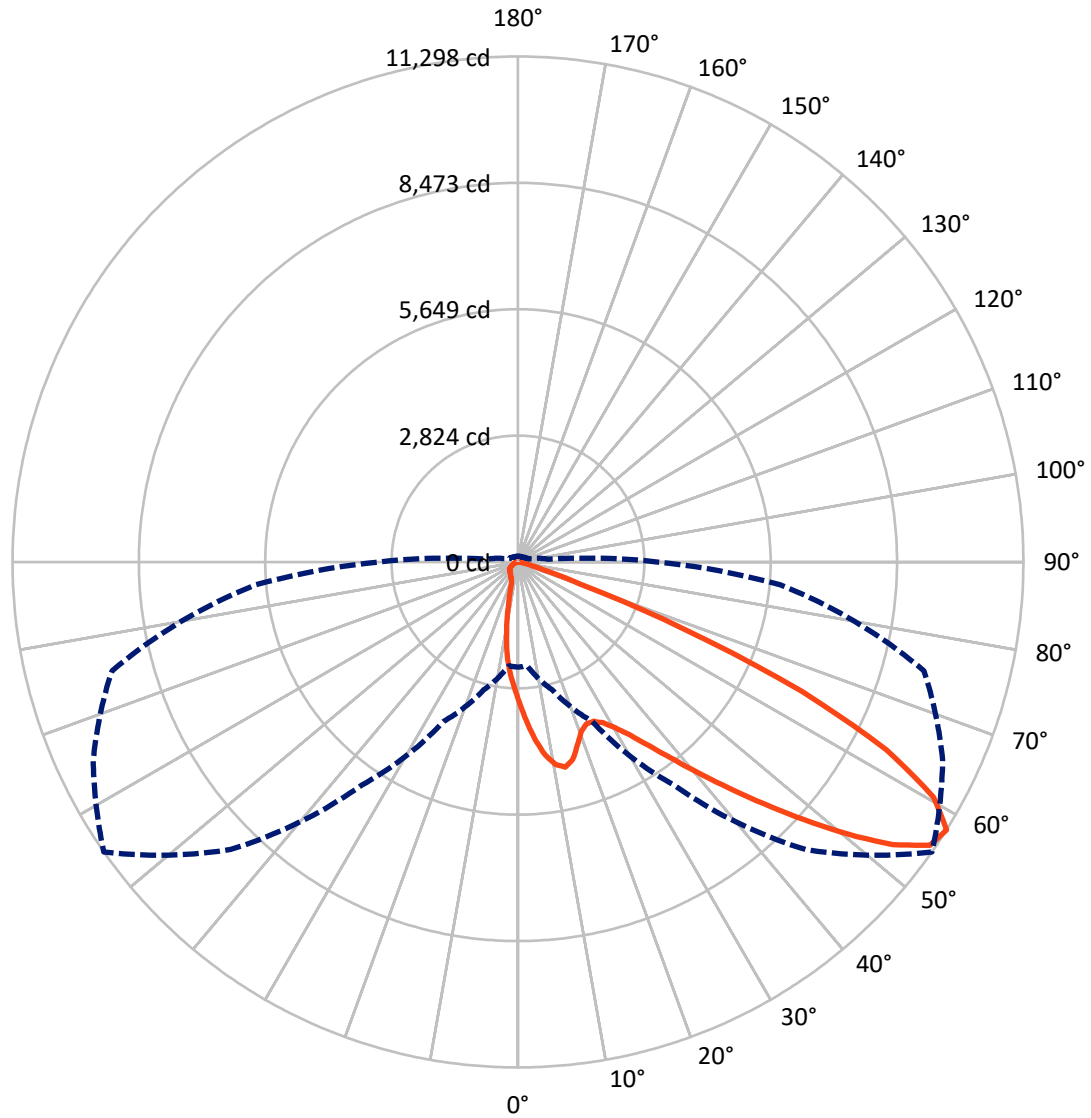
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	1010.9	0.0	1010.9
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	11933.1	0.0	11933.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	12944.0	0.0	12944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.2	2.2
10°-20°	701.0	5.4
20°-30°	1121.6	8.7
30°-40°	1898.5	14.7
40°-50°	3116.9	24.1
50°-60°	3425.6	26.5
60°-70°	1965.0	15.2
70°-80°	401.5	3.1
80°-90°	23.7	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°	12944.0	100.0
0°-180°	12944.0	100.0

Coefficient of Utilization



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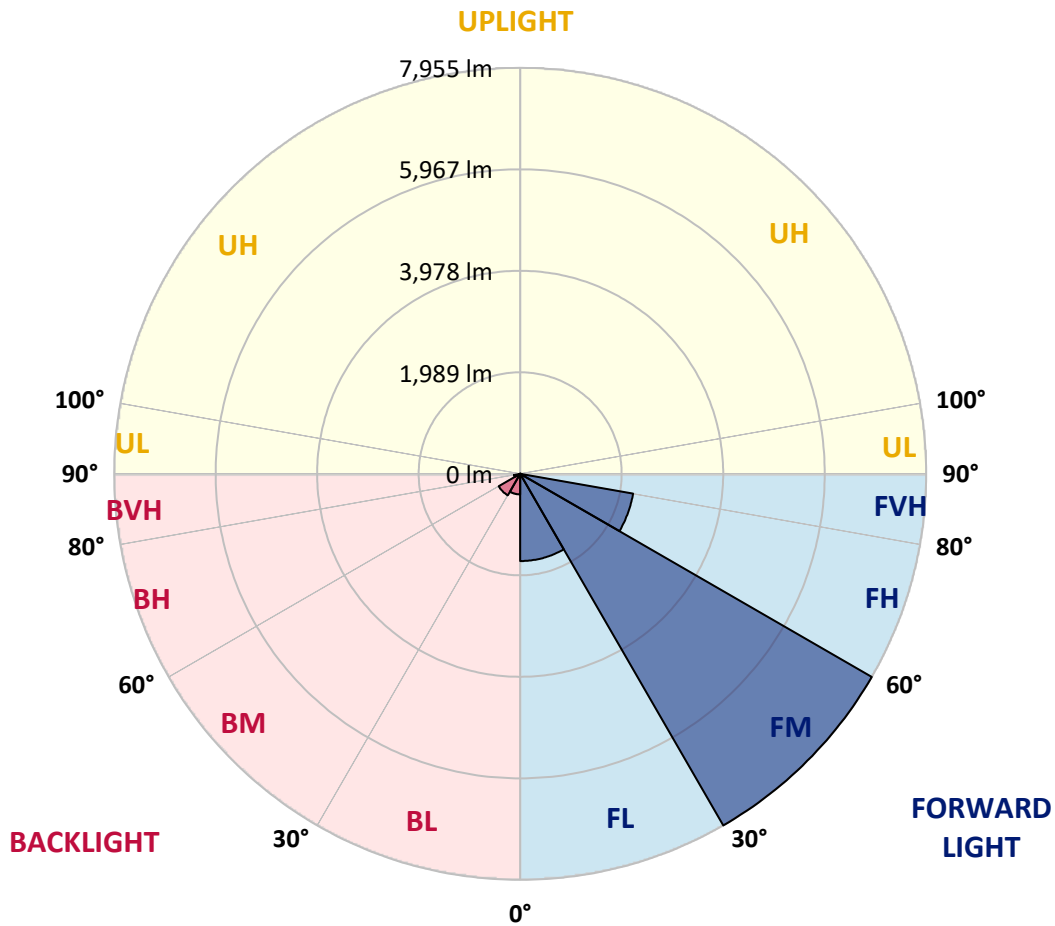
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1709.3	13.2			
FM (30°-60°)	7955.5	61.5			
FH (60°-80°)	2246.2	17.4			G2/5000
FVH (80°-90°)	22.1	0.2			G1/100
BL (0°-30°)	403.6	3.1	B1/500		
BM (30°-60°)	485.5	3.8	B1/1000		
BH (60°-80°)	120.2	0.9	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2
2.5°	3870.2	3821.6	3814.4	3804.8	3712.2	3642.8	3542.2	3432.1	3308.3	3182.2
5°	4471.3	4432.9	4425.8	4381.1	4275.7	4157.6	3978.8	3752.9	3522.3	3250.9
7.5°	4587.8	4580.6	4613.3	4611.7	4597.4	4504.0	4353.1	4084.2	3737.8	3335.5
10°	4068.2	4086.5	4183.9	4269.3	4500.0	4634.1	4601.4	4379.5	3959.6	3432.1
12.5°	3594.9	3573.3	3642.8	3739.4	4007.5	4406.6	4704.3	4626.1	4213.5	3541.4
15°	3298.0	3289.2	3328.3	3373.0	3577.3	3979.6	4584.6	4826.4	4457.7	3670.7
17.5°	3203.0	3195.8	3207.8	3219.0	3351.4	3662.7	4299.7	4949.4	4691.5	3818.4
20°	3280.4	3270.8	3269.2	3260.5	3315.5	3527.8	4041.9	4958.1	4901.5	3952.5
22.5°	3506.3	3495.1	3456.0	3420.9	3425.7	3546.2	3926.9	4870.3	5059.5	4077.8
25°	3915.7	3897.4	3816.0	3697.8	3622.8	3673.9	3944.5	4754.6	5210.3	4175.9
27.5°	4428.2	4404.2	4299.7	4124.1	3952.5	3890.2	4071.4	4674.8	5335.7	4251.0
30°	4930.2	4899.1	4796.1	4659.6	4409.0	4212.7	4300.5	4709.9	5484.9	4329.2
32.5°	5472.1	5442.6	5306.1	5136.9	4929.4	4665.2	4614.1	4881.5	5667.7	4438.5
35°	6157.8	6111.5	5917.5	5686.8	5466.6	5199.2	5038.7	5177.6	5911.1	4605.3
37.5°	6938.4	6876.1	6667.0	6348.5	6061.2	5761.9	5555.9	5584.7	6267.9	4828.8
40°	7674.2	7617.6	7424.4	7124.3	6763.6	6400.4	6180.9	6117.1	6760.4	5101.0
42.5°	8115.6	8064.5	7983.1	7856.2	7552.1	7181.8	6904.8	6766.7	7343.0	5426.6
45°	8140.4	8095.7	8205.0	8352.7	8292.8	8046.2	7708.6	7455.6	7928.1	5732.3
47.5°	7744.5	7714.2	8046.2	8561.8	8818.8	8922.6	8611.3	8086.9	8410.9	5951.8
50°	6665.4	6654.2	7337.4	8284.0	9019.1	9690.4	9563.5	8674.3	8785.3	6065.2
52.5°	5779.4	5738.7	6137.0	7394.9	8727.8	10094.3	10494.1	9250.6	9047.1	6086.7
55°	4383.5	4347.5	4847.2	5907.1	7788.4	9950.6	11175.0	9845.2	9234.6	6031.6
57.5°	2351.4	2329.0	2960.4	3931.7	6088.3	9088.6	11297.9	10474.2	9392.7	5885.6
60°	915.5	911.5	1147.7	1907.6	3700.2	7394.1	10677.7	10851.7	9491.6	5706.0
62.5°	553.9	565.9	604.2	856.4	1634.6	4593.4	9248.2	10422.3	9557.9	5541.6
65°	458.1	458.9	463.7	588.2	783.0	1922.0	6962.3	9009.6	9394.3	5248.7
67.5°	392.7	399.9	418.2	466.9	552.3	842.9	4008.3	6979.1	8399.0	4567.0
70°	309.7	319.3	342.4	383.9	426.2	527.6	1481.4	4643.7	6416.4	3442.4
72.5°	261.0	260.2	272.2	312.1	338.4	371.1	569.9	2602.0	3729.0	1643.4
75°	201.9	209.9	225.1	261.0	277.0	269.0	308.9	950.6	1336.1	498.0
77.5°	158.0	164.4	178.0	213.1	229.1	190.8	178.0	340.0	429.4	178.8
80°	71.0	76.6	121.3	157.2	186.8	131.7	96.6	174.0	190.8	81.4
82.5°	12.8	21.6	71.0	83.0	95.8	85.4	50.3	90.2	93.4	32.7
85°	0.8	1.6	24.7	30.3	38.3	27.9	15.2	35.9	31.1	11.2
87.5°	0.0	0.0	0.0	0.8	0.8	4.0	4.8	6.4	4.8	4.0
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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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
3119.2	0°	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2	3119.2
3126.4	2.5°	3068.9	2955.6	2845.4	2755.2	2702.5	2613.2	2554.1	2544.5	2519.8	2541.3
3134.3	5°	3009.8	2807.1	2602.0	2418.4	2267.6	2072.8	1927.5	1866.1	1812.6	1831.0
3155.1	7.5°	2981.9	2661.8	2342.6	2028.9	1706.5	1395.2	1163.7	1067.1	993.7	1004.1
3178.2	10°	2944.4	2511.0	2010.5	1531.7	1099.9	792.6	632.9	573.9	541.1	541.9
3212.6	12.5°	2915.7	2330.6	1625.0	1038.4	669.7	506.0	456.5	442.2	432.6	433.4
3264.4	15°	2901.3	2118.3	1244.3	692.0	478.9	428.6	416.6	410.3	403.9	403.1
3321.9	17.5°	2877.3	1882.0	910.7	505.2	419.0	401.5	391.1	383.9	375.9	374.3
3371.4	20°	2841.4	1613.9	665.7	427.0	392.7	379.1	364.8	355.2	345.6	344.0
3402.5	22.5°	2775.2	1330.5	511.6	395.1	373.5	358.4	340.8	329.6	320.1	318.5
3387.4	25°	2652.3	1064.7	431.0	375.1	356.8	338.4	319.3	304.1	295.3	293.7
3354.6	27.5°	2496.6	836.5	391.1	356.8	335.2	318.5	296.9	282.5	274.6	273.0
3311.5	30°	2313.0	644.1	367.9	336.0	309.7	295.3	276.2	264.2	259.4	259.4
3281.2	32.5°	2115.1	514.8	358.4	315.3	287.3	271.4	256.2	251.4	249.8	249.0
3298.0	35°	1929.1	447.0	353.6	298.5	267.4	252.2	245.8	246.6	249.8	249.8
3349.9	37.5°	1763.9	425.4	351.2	286.5	249.8	236.3	240.2	247.4	244.2	244.2
3440.8	40°	1614.7	427.8	349.6	277.8	235.5	227.5	235.5	229.9	221.9	221.1
3551.8	42.5°	1500.5	447.8	346.4	270.6	226.7	221.1	217.9	209.1	208.3	209.9
3666.7	45°	1417.5	465.3	345.6	267.4	217.1	206.7	202.7	194.0	209.9	213.9
3713.8	47.5°	1319.3	465.3	345.6	256.2	201.1	197.1	190.8	181.2	197.1	201.1
3669.1	50°	1192.4	435.8	332.0	243.4	188.4	186.0	174.8	162.8	159.6	162.0
3564.6	52.5°	1032.0	382.3	297.7	225.9	175.6	170.8	157.2	148.5	146.1	146.1
3377.0	55°	849.2	320.1	251.4	200.3	162.0	153.2	143.7	139.7	137.3	135.7
3114.4	57.5°	690.4	262.6	201.9	178.0	149.3	138.1	134.9	130.1	126.1	123.7
2894.9	60°	566.7	206.7	166.8	158.0	136.5	126.1	125.3	118.9	108.5	107.0
2713.7	62.5°	437.4	151.6	140.5	137.3	123.7	114.9	113.3	100.6	84.6	81.4
2456.7	65°	308.9	118.1	113.3	120.5	110.1	102.2	98.2	79.0	62.3	59.9
2056.0	67.5°	217.1	99.0	89.4	105.4	95.8	85.4	83.0	67.0	51.9	50.3
1554.8	70°	154.8	80.6	73.4	90.2	76.6	75.0	70.2	55.9	42.3	40.7
769.4	72.5°	109.3	61.5	56.7	78.2	52.7	64.7	57.5	43.1	31.9	30.3
261.8	75°	80.6	43.9	39.9	45.5	38.3	48.7	40.7	28.7	20.0	19.2
118.1	77.5°	59.1	27.9	23.9	22.3	22.3	30.3	22.3	12.0	8.8	8.0
59.9	80°	41.5	12.8	11.2	9.6	8.8	7.2	3.2	1.6	0.8	0.8
20.8	82.5°	24.7	5.6	5.6	4.0	2.4	0.0	0.0	0.0	0.0	0.0
8.0	85°	5.6	2.4	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
3.2	87.5°	0.8	0.8	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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