

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: P954009

Luminaire Tested: **GALN-SB7B-927-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954009
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-927-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 20783 lumens
Efficiency: N/A
Efficacy: 81.0 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

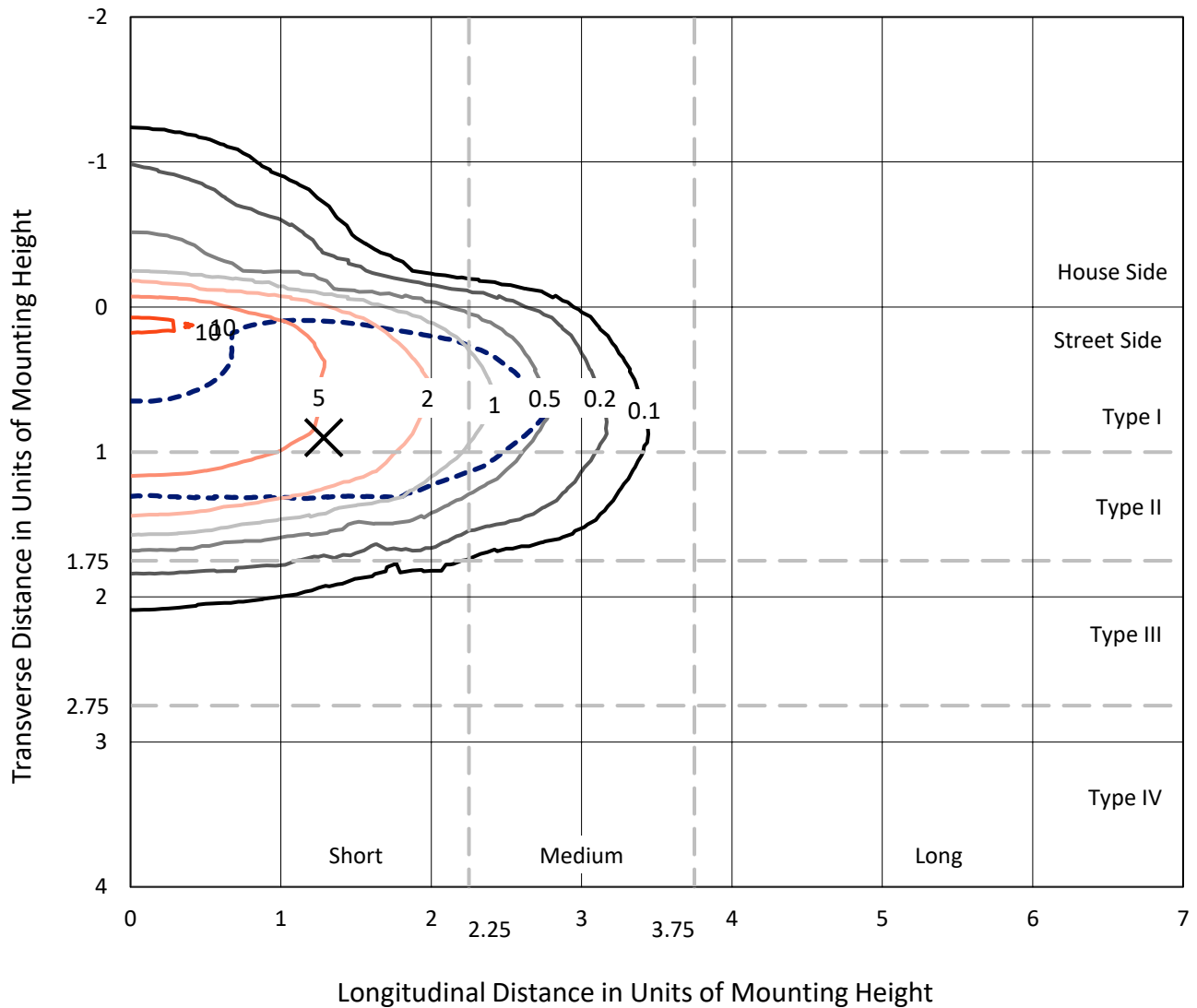
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

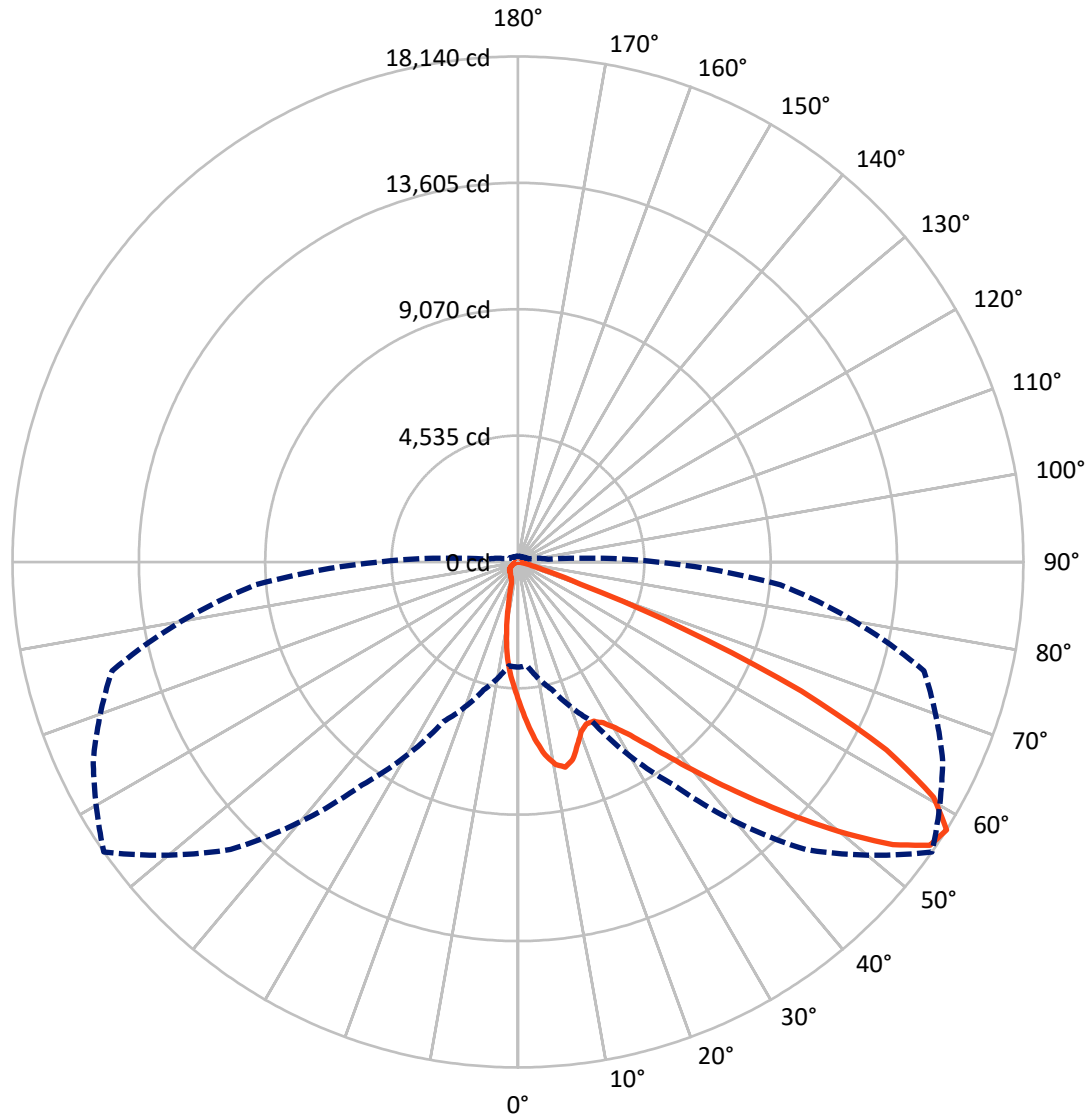
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	1623.1	0.0	1623.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	19159.9	0.0	19159.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	20783.0	0.0	20783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.0	2.2
10°-20°	1125.6	5.4
20°-30°	1800.9	8.7
30°-40°	3048.2	14.7
40°-50°	5004.5	24.1
50°-60°	5500.3	26.5
60°-70°	3154.9	15.2
70°-80°	644.7	3.1
80°-90°	38.0	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°	20783.0	100.0
0°-180°	20783.0	100.0

Coefficient of Utilization



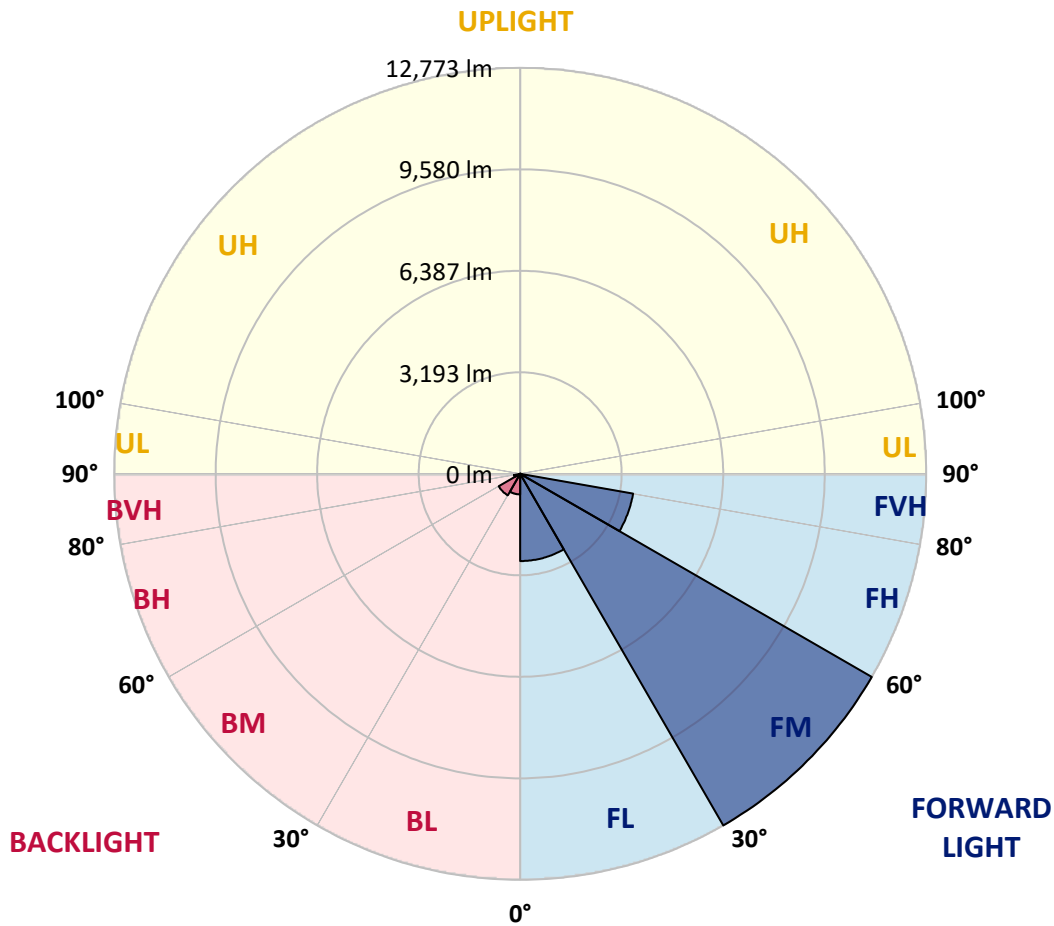
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2744.5	13.2			
FM (30°-60°)	12773.4	61.5			
FH (60°-80°)	3606.6	17.4			G2/5000
FVH (80°-90°)	35.5	0.2			G1/100
BL (0°-30°)	648.0	3.1	B2/1000		
BM (30°-60°)	779.5	3.8	B1/1000		
BH (60°-80°)	193.0	0.9	B1/500		G1/500
BVH (80°-90°)	2.6	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5008.2	5008.2	5008.2	5008.2	5008.2	5008.2	5008.2	5008.2	5008.2	5008.2
2.5°	6214.1	6135.9	6124.4	6109.0	5960.4	5848.9	5687.4	5510.5	5311.9	5109.4
5°	7179.1	7117.6	7106.0	7034.3	6865.1	6675.5	6388.4	6025.7	5655.4	5219.6
7.5°	7366.2	7354.7	7407.2	7404.6	7381.6	7231.6	6989.4	6557.6	6001.4	5355.5
10°	6531.9	6561.4	6717.7	6854.9	7225.2	7440.5	7388.0	7031.7	6357.6	5510.5
12.5°	5772.0	5737.4	5848.9	6003.9	6434.5	7075.3	7553.3	7427.7	6765.2	5686.1
15°	5295.3	5281.2	5343.9	5415.7	5743.8	6389.7	7361.1	7749.4	7157.3	5893.7
17.5°	5142.8	5131.2	5150.4	5168.4	5381.1	5880.9	6903.6	7946.7	7532.8	6130.8
20°	5267.1	5251.7	5249.1	5235.0	5323.4	5664.3	6489.6	7960.8	7869.8	6346.1
22.5°	5629.7	5611.8	5549.0	5492.6	5500.3	5693.8	6305.1	7819.9	8123.6	6547.3
25°	6287.2	6257.7	6127.0	5937.3	5816.8	5898.8	6333.3	7634.0	8365.8	6704.9
27.5°	7109.9	7071.4	6903.6	6621.6	6346.1	6246.1	6537.0	7505.9	8567.0	6825.4
30°	7916.0	7866.0	7700.7	7481.5	7079.1	6763.9	6904.8	7562.3	8806.6	6951.0
32.5°	8786.1	8738.7	8519.6	8247.9	7914.7	7490.5	7408.5	7837.8	9100.1	7126.5
35°	9886.9	9812.6	9501.2	9130.8	8777.1	8347.8	8090.3	8313.2	9491.0	7394.4
37.5°	11140.3	11040.3	10704.6	10193.2	9731.9	9251.3	8920.7	8966.8	10063.8	7753.2
40°	12321.8	12230.9	11920.7	11438.9	10859.6	10276.5	9924.1	9821.6	10854.5	8190.2
42.5°	13030.5	12948.5	12817.8	12614.0	12125.8	11531.1	11086.5	10864.7	11790.0	8713.1
45°	13070.3	12998.5	13174.1	13411.1	13315.0	12919.0	12376.9	11970.7	12729.4	9203.9
47.5°	12434.6	12385.9	12919.0	13746.9	14159.5	14326.1	13826.3	12984.4	13504.7	9556.3
50°	10702.0	10684.1	11781.0	13300.9	14481.2	15559.0	15355.2	13927.6	14105.7	9738.3
52.5°	9279.5	9214.1	9853.6	11873.3	14013.5	16207.4	16849.5	14852.8	14526.1	9772.9
55°	7038.1	6980.5	7782.7	9484.5	12505.1	15976.7	17942.6	15807.6	14827.2	9684.5
57.5°	3775.4	3739.5	4753.2	6312.8	9775.5	14592.7	18140.0	16817.4	15081.0	9449.9
60°	1469.9	1463.5	1842.8	3062.8	5941.1	11872.0	17144.2	17423.6	15239.9	9161.6
62.5°	889.4	908.6	970.1	1375.1	2624.6	7375.2	14849.0	16734.1	15346.2	8897.6
65°	735.6	736.9	744.6	944.5	1257.2	3085.9	11178.7	14465.8	15083.5	8427.3
67.5°	630.5	642.0	671.5	749.7	886.8	1353.3	6435.8	11205.6	13485.5	7332.9
70°	497.2	512.6	549.8	616.4	684.3	847.1	2378.5	7455.9	10302.2	5527.2
72.5°	419.1	417.8	437.0	501.1	543.4	595.9	915.0	4177.8	5987.3	2638.7
75°	324.2	337.0	361.4	419.1	444.7	431.9	495.9	1526.3	2145.3	799.7
77.5°	253.7	264.0	285.8	342.2	367.8	306.3	285.8	545.9	689.5	287.1
80°	114.1	123.0	194.8	252.5	299.9	211.5	155.1	279.4	306.3	130.7
82.5°	20.5	34.6	114.1	133.3	153.8	137.1	80.7	144.8	149.9	52.5
85°	1.3	2.6	39.7	48.7	61.5	44.9	24.3	57.7	50.0	17.9
87.5°	0.0	0.0	0.0	1.3	1.3	6.4	7.7	10.3	7.7	6.4
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°
5008.2	0°	5008.2	5008.2	5008.2	5008.2	5008.2	5008.2	5008.2	5008.2	5008.2	5008.2
5019.7	2.5°	4927.5	4745.5	4568.6	4423.8	4339.2	4195.7	4100.9	4085.5	4045.8	4080.4
5032.5	5°	4832.6	4507.1	4177.8	3883.0	3640.8	3328.1	3094.9	2996.2	2910.3	2939.8
5065.9	7.5°	4787.8	4273.9	3761.3	3257.6	2739.9	2240.1	1868.5	1713.4	1595.5	1612.2
5103.0	10°	4727.5	4031.7	3228.2	2459.2	1765.9	1272.6	1016.2	921.4	868.9	870.2
5158.1	12.5°	4681.4	3742.0	2609.2	1667.3	1075.2	812.5	733.0	710.0	694.6	695.9
5241.4	15°	4658.3	3401.2	1997.9	1111.1	768.9	688.2	669.0	658.7	648.5	647.2
5333.7	17.5°	4619.9	3021.8	1462.2	811.2	672.8	644.6	627.9	616.4	603.6	601.0
5413.2	20°	4562.2	2591.2	1068.8	685.6	630.5	608.7	585.7	570.3	554.9	552.3
5463.1	22.5°	4455.9	2136.3	821.5	634.4	599.8	575.4	547.2	529.3	513.9	511.3
5438.8	25°	4258.5	1709.6	692.0	602.3	572.8	543.4	512.6	488.3	474.2	471.6
5386.2	27.5°	4008.6	1343.0	627.9	572.8	538.2	511.3	476.7	453.7	440.8	438.3
5317.0	30°	3713.9	1034.2	590.8	539.5	497.2	474.2	443.4	424.2	416.5	416.5
5268.3	32.5°	3396.0	826.6	575.4	506.2	461.3	435.7	411.4	403.7	401.1	399.8
5295.3	35°	3097.4	717.7	567.7	479.3	429.3	405.0	394.7	396.0	401.1	401.1
5378.6	37.5°	2832.2	683.1	563.9	460.1	401.1	379.3	385.7	397.3	392.1	392.1
5524.6	40°	2592.5	686.9	561.3	446.0	378.0	365.2	378.0	369.1	356.3	355.0
5702.8	42.5°	2409.3	718.9	556.2	434.4	364.0	355.0	349.9	335.8	334.5	337.0
5887.3	45°	2276.0	747.1	554.9	429.3	348.6	331.9	325.5	311.4	337.0	343.4
5962.9	47.5°	2118.4	747.1	554.9	411.4	322.9	316.5	306.3	290.9	316.5	322.9
5891.2	50°	1914.6	699.7	533.1	390.9	302.4	298.6	280.7	261.4	256.3	260.1
5723.3	52.5°	1657.0	613.8	478.0	362.7	281.9	274.2	252.5	238.4	234.5	234.5
5422.1	55°	1363.5	513.9	403.7	321.7	260.1	246.1	230.7	224.3	220.4	217.9
5000.5	57.5°	1108.5	421.6	324.2	285.8	239.6	221.7	216.6	208.9	202.5	198.6
4648.1	60°	909.9	331.9	267.8	253.7	219.1	202.5	201.2	190.9	174.3	171.7
4357.2	62.5°	702.3	243.5	225.5	220.4	198.6	184.5	182.0	161.5	135.8	130.7
3944.5	65°	495.9	189.7	182.0	193.5	176.9	164.0	157.6	126.9	100.0	96.1
3301.2	67.5°	348.6	158.9	143.5	169.2	153.8	137.1	133.3	107.6	83.3	80.7
2496.4	70°	248.6	129.4	117.9	144.8	123.0	120.5	112.8	89.7	67.9	65.4
1235.4	72.5°	175.6	98.7	91.0	125.6	84.6	103.8	92.3	69.2	51.3	48.7
420.3	75°	129.4	70.5	64.1	73.0	61.5	78.2	65.4	46.1	32.0	30.8
189.7	77.5°	94.8	44.9	38.4	35.9	35.9	48.7	35.9	19.2	14.1	12.8
96.1	80°	66.6	20.5	17.9	15.4	14.1	11.5	5.1	2.6	1.3	1.3
33.3	82.5°	39.7	9.0	9.0	6.4	3.8	0.0	0.0	0.0	0.0	0.0
12.8	85°	9.0	3.8	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
5.1	87.5°	1.3	1.3	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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