

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: P947541

Luminaire Tested: **GALN-SB2D-840-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947541
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-SB2D-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 4000K, 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: 16597 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

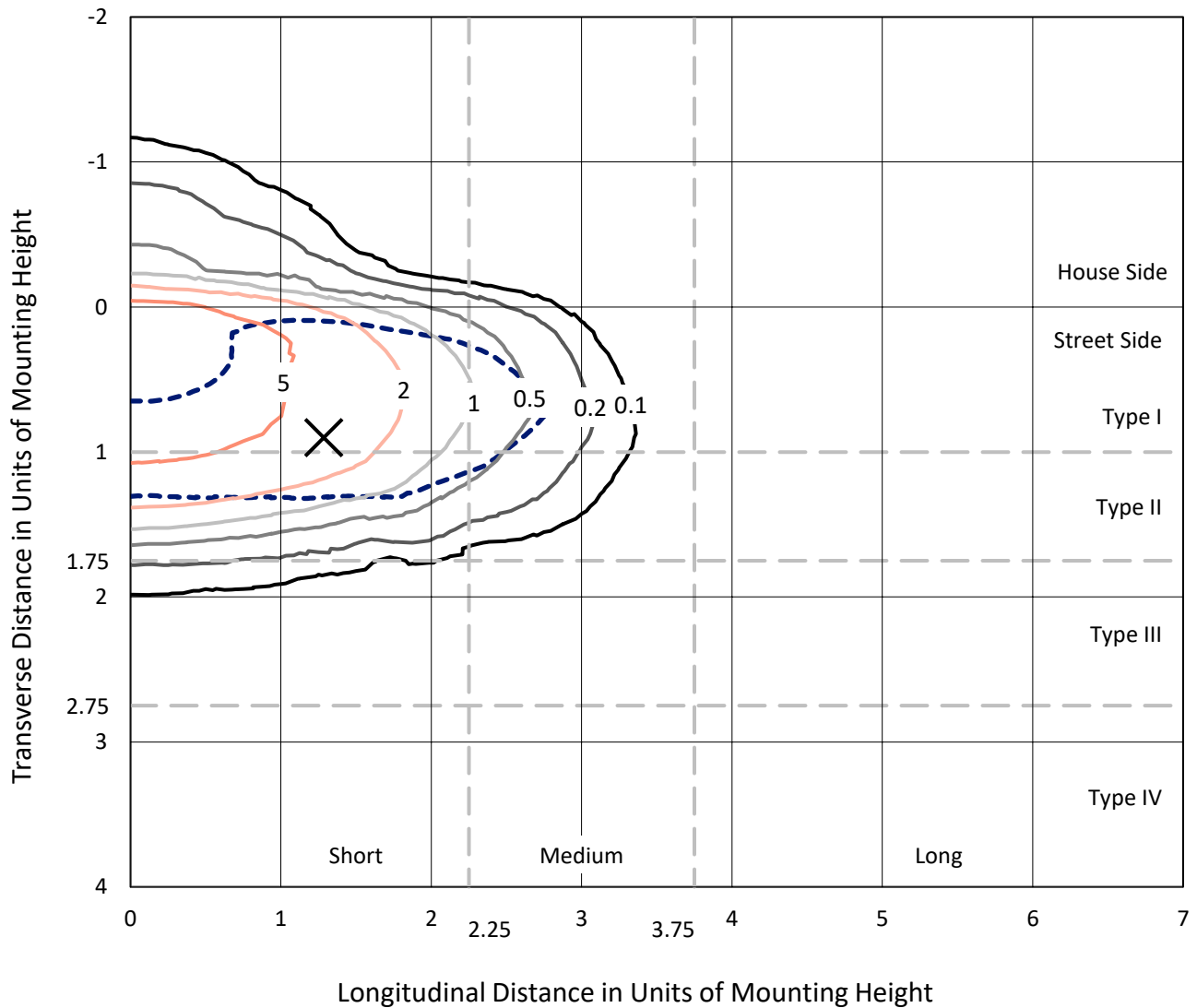
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

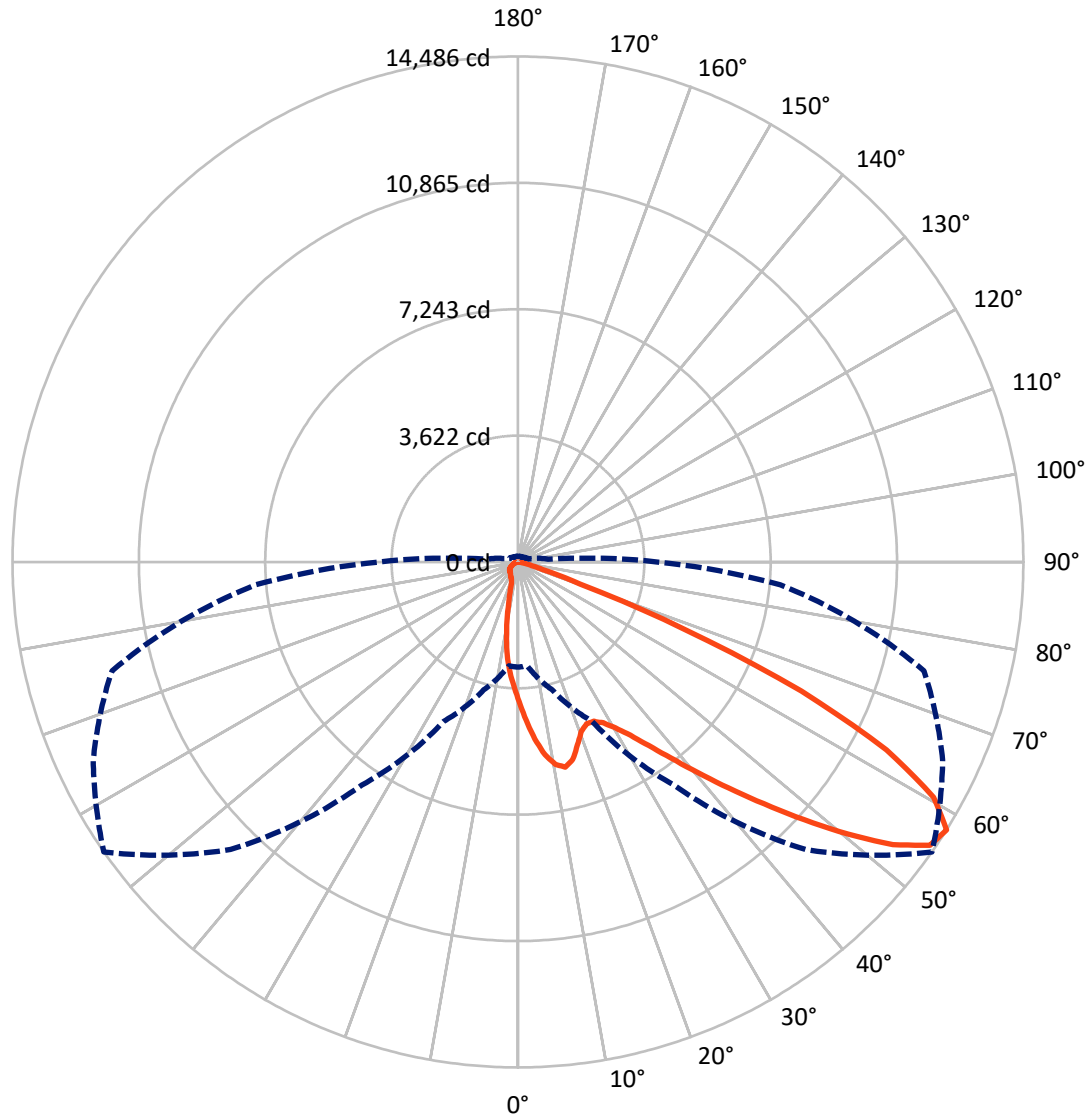
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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	1296.2	0.0	1296.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	15300.8	0.0	15300.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	16597.0	0.0	16597.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.1	2.2
10°-20°	898.9	5.4
20°-30°	1438.2	8.7
30°-40°	2434.2	14.7
40°-50°	3996.5	24.1
50°-60°	4392.4	26.5
60°-70°	2519.5	15.2
70°-80°	514.8	3.1
80°-90°	30.4	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°	16597.0	100.0
0°-180°	16597.0	100.0

Coefficient of Utilization



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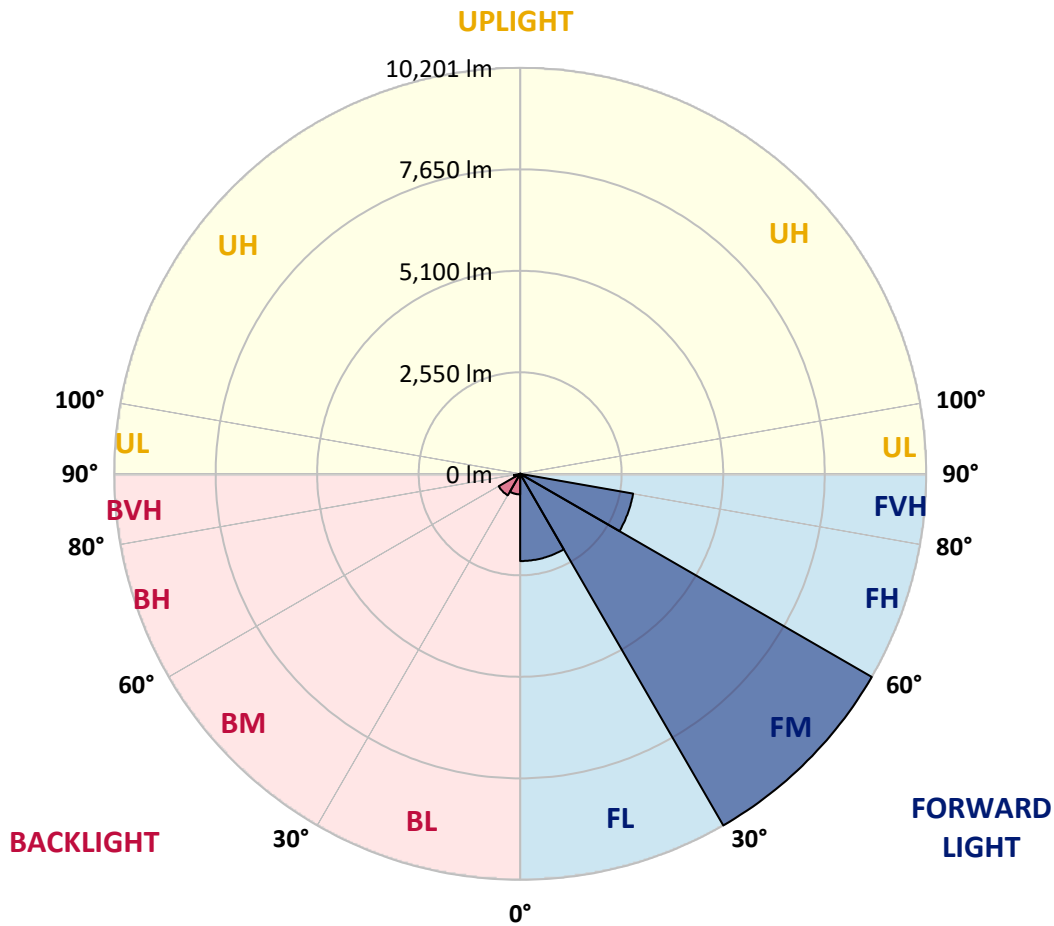
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2191.7	13.2			
FM (30°-60°)	10200.6	61.5			
FH (60°-80°)	2880.2	17.4			G2/5000
FVH (80°-90°)	28.3	0.2			G1/100
BL (0°-30°)	517.5	3.1	B2/1000		
BM (30°-60°)	622.5	3.8	B1/1000		
BH (60°-80°)	154.1	0.9	B1/500		G1/500
BVH (80°-90°)	2.0	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°	3999.5	3999.5	3999.5	3999.5	3999.5	3999.5	3999.5	3999.5	3999.5	3999.5
2.5°	4962.5	4900.1	4890.9	4878.6	4759.9	4670.8	4541.9	4400.6	4242.0	4080.3
5°	5733.1	5684.0	5674.8	5617.5	5482.4	5330.9	5101.7	4812.1	4516.3	4168.3
7.5°	5882.5	5873.3	5915.3	5913.2	5894.8	5775.1	5581.7	5236.8	4792.6	4276.8
10°	5216.3	5239.8	5364.7	5474.2	5770.0	5941.9	5899.9	5615.4	5077.1	4400.6
12.5°	4609.4	4581.8	4670.8	4794.7	5138.5	5650.2	6032.0	5931.7	5402.6	4540.8
15°	4228.7	4217.5	4267.6	4324.9	4586.9	5102.7	5878.4	6188.5	5715.7	4706.6
17.5°	4106.9	4097.7	4113.1	4127.4	4297.3	4696.4	5513.1	6346.1	6015.6	4896.0
20°	4206.2	4193.9	4191.9	4180.6	4251.2	4523.5	5182.5	6357.4	6284.7	5067.9
22.5°	4495.8	4481.5	4431.3	4386.3	4392.5	4547.0	5035.2	6244.8	6487.4	5228.6
25°	5020.8	4997.3	4892.9	4741.4	4645.2	4710.7	5057.7	6096.4	6680.8	5354.5
27.5°	5677.9	5647.2	5513.1	5287.9	5067.9	4988.1	5220.4	5994.1	6841.5	5450.7
30°	6321.6	6281.7	6149.6	5974.6	5653.3	5401.5	5514.1	6039.1	7032.8	5551.0
32.5°	7016.5	6978.6	6803.6	6586.6	6320.6	5981.8	5916.3	6259.1	7267.2	5691.2
35°	7895.6	7836.2	7587.5	7291.8	7009.3	6666.5	6460.8	6638.8	7579.3	5905.0
37.5°	8896.5	8816.6	8548.5	8140.2	7771.7	7388.0	7123.9	7160.8	8036.8	6191.6
40°	9840.0	9767.4	9519.7	9134.9	8672.3	8206.7	7925.3	7843.4	8668.2	6540.6
42.5°	10406.0	10340.5	10236.1	10073.4	9683.5	9208.6	8853.5	8676.4	9415.3	6958.1
45°	10437.7	10380.4	10520.6	10709.9	10633.2	10316.9	9884.0	9559.6	10165.5	7350.1
47.5°	9930.1	9891.2	10316.9	10978.1	11307.6	11440.6	11041.5	10369.1	10784.6	7631.5
50°	8546.5	8532.1	9408.2	10621.9	11564.5	12425.2	12262.4	11122.4	11264.6	7776.9
52.5°	7410.5	7358.3	7869.0	9481.9	11190.9	12943.0	13455.7	11861.3	11600.3	7804.5
55°	5620.5	5574.5	6215.1	7574.2	9986.4	12758.8	14328.7	12623.7	11840.8	7733.9
57.5°	3015.0	2986.3	3795.8	5041.3	7806.5	11653.5	14486.3	13430.1	12043.4	7546.6
60°	1173.8	1168.7	1471.7	2445.9	4744.5	9480.8	13691.1	13914.2	12170.3	7316.3
62.5°	710.2	725.6	774.7	1098.1	2095.9	5889.7	11858.2	13363.6	12255.3	7105.5
65°	587.4	588.5	594.6	754.2	1004.0	2464.4	8927.2	11552.2	12045.5	6729.9
67.5°	503.5	512.7	536.3	598.7	708.2	1080.7	5139.5	8948.7	10769.3	5855.9
70°	397.1	409.4	439.0	492.3	546.5	676.5	1899.4	5954.2	8227.2	4413.9
72.5°	334.7	333.6	349.0	400.2	433.9	475.9	730.7	3336.3	4781.3	2107.2
75°	258.9	269.2	288.6	334.7	355.1	344.9	396.1	1218.9	1713.2	638.6
77.5°	202.6	210.8	228.2	273.2	293.7	244.6	228.2	436.0	550.6	229.2
80°	91.1	98.2	155.6	201.6	239.5	168.9	123.8	223.1	244.6	104.4
82.5°	16.4	27.6	91.1	106.4	122.8	109.5	64.5	115.6	119.7	42.0
85°	1.0	2.0	31.7	38.9	49.1	35.8	19.4	46.1	39.9	14.3
87.5°	0.0	0.0	0.0	1.0	1.0	5.1	6.1	8.2	6.1	5.1
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°
3999.5	0°	3999.5	3999.5	3999.5	3999.5	3999.5	3999.5	3999.5	3999.5	3999.5	3999.5
4008.7	2.5°	3935.0	3789.7	3648.4	3532.8	3465.3	3350.6	3274.9	3262.6	3230.9	3258.5
4018.9	5°	3859.3	3599.3	3336.3	3100.9	2907.5	2657.8	2471.5	2392.7	2324.2	2347.7
4045.5	7.5°	3823.4	3413.1	3003.7	2601.5	2188.0	1788.9	1492.1	1368.3	1274.1	1287.4
4075.2	10°	3775.3	3219.6	2578.0	1963.9	1410.3	1016.2	811.6	735.8	693.9	694.9
4119.2	12.5°	3738.5	2988.3	2083.7	1331.5	858.6	648.8	585.4	567.0	554.7	555.7
4185.7	15°	3720.1	2716.1	1595.5	887.3	614.0	549.6	534.2	526.0	517.8	516.8
4259.4	17.5°	3689.4	2413.2	1167.7	647.8	537.3	514.8	501.5	492.3	482.0	480.0
4322.9	20°	3643.3	2069.3	853.5	547.5	503.5	486.1	467.7	455.4	443.1	441.1
4362.8	22.5°	3558.4	1706.0	656.0	506.6	479.0	459.5	437.0	422.7	410.4	408.3
4343.3	25°	3400.8	1365.2	552.6	481.0	457.5	433.9	409.4	389.9	378.7	376.6
4301.4	27.5°	3201.2	1072.5	501.5	457.5	429.8	408.3	380.7	362.3	352.1	350.0
4246.1	30°	2965.8	825.9	471.8	430.9	397.1	378.7	354.1	338.7	332.6	332.6
4207.2	32.5°	2712.0	660.1	459.5	404.2	368.4	348.0	328.5	322.4	320.3	319.3
4228.7	35°	2473.6	573.1	453.4	382.8	342.8	323.4	315.2	316.2	320.3	320.3
4295.2	37.5°	2261.7	545.5	450.3	367.4	320.3	302.9	308.0	317.3	313.2	313.2
4411.9	40°	2070.3	548.5	448.3	356.1	301.9	291.7	301.9	294.7	284.5	283.5
4554.2	42.5°	1924.0	574.1	444.2	346.9	290.6	283.5	279.4	268.1	267.1	269.2
4701.5	45°	1817.6	596.6	443.1	342.8	278.4	265.1	259.9	248.7	269.2	274.3
4761.9	47.5°	1691.7	596.6	443.1	328.5	257.9	252.8	244.6	232.3	252.8	257.9
4704.6	50°	1529.0	558.8	425.7	312.1	241.5	238.5	224.1	208.8	204.7	207.8
4570.5	52.5°	1323.3	490.2	381.7	289.6	225.1	219.0	201.6	190.4	187.3	187.3
4330.0	55°	1088.9	410.4	322.4	256.9	207.8	196.5	184.2	179.1	176.0	174.0
3993.3	57.5°	885.2	336.7	258.9	228.2	191.4	177.0	173.0	166.8	161.7	158.6
3711.9	60°	726.6	265.1	213.9	202.6	175.0	161.7	160.7	152.5	139.2	137.1
3479.6	62.5°	560.8	194.4	180.1	176.0	158.6	147.4	145.3	128.9	108.5	104.4
3150.0	65°	396.1	151.5	145.3	154.5	141.2	131.0	125.9	101.3	79.8	76.8
2636.3	67.5°	278.4	126.9	114.6	135.1	122.8	109.5	106.4	86.0	66.5	64.5
1993.6	70°	198.5	103.4	94.2	115.6	98.2	96.2	90.1	71.6	54.2	52.2
986.6	72.5°	140.2	78.8	72.7	100.3	67.5	82.9	73.7	55.3	40.9	38.9
335.7	75°	103.4	56.3	51.2	58.3	49.1	62.4	52.2	36.8	25.6	24.6
151.5	77.5°	75.7	35.8	30.7	28.7	28.7	38.9	28.7	15.4	11.3	10.2
76.8	80°	53.2	16.4	14.3	12.3	11.3	9.2	4.1	2.0	1.0	1.0
26.6	82.5°	31.7	7.2	7.2	5.1	3.1	0.0	0.0	0.0	0.0	0.0
10.2	85°	7.2	3.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
4.1	87.5°	1.0	1.0	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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