

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: P949641

Luminaire Tested: **GALN-SB4B-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949641
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-SB4B-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 17290 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

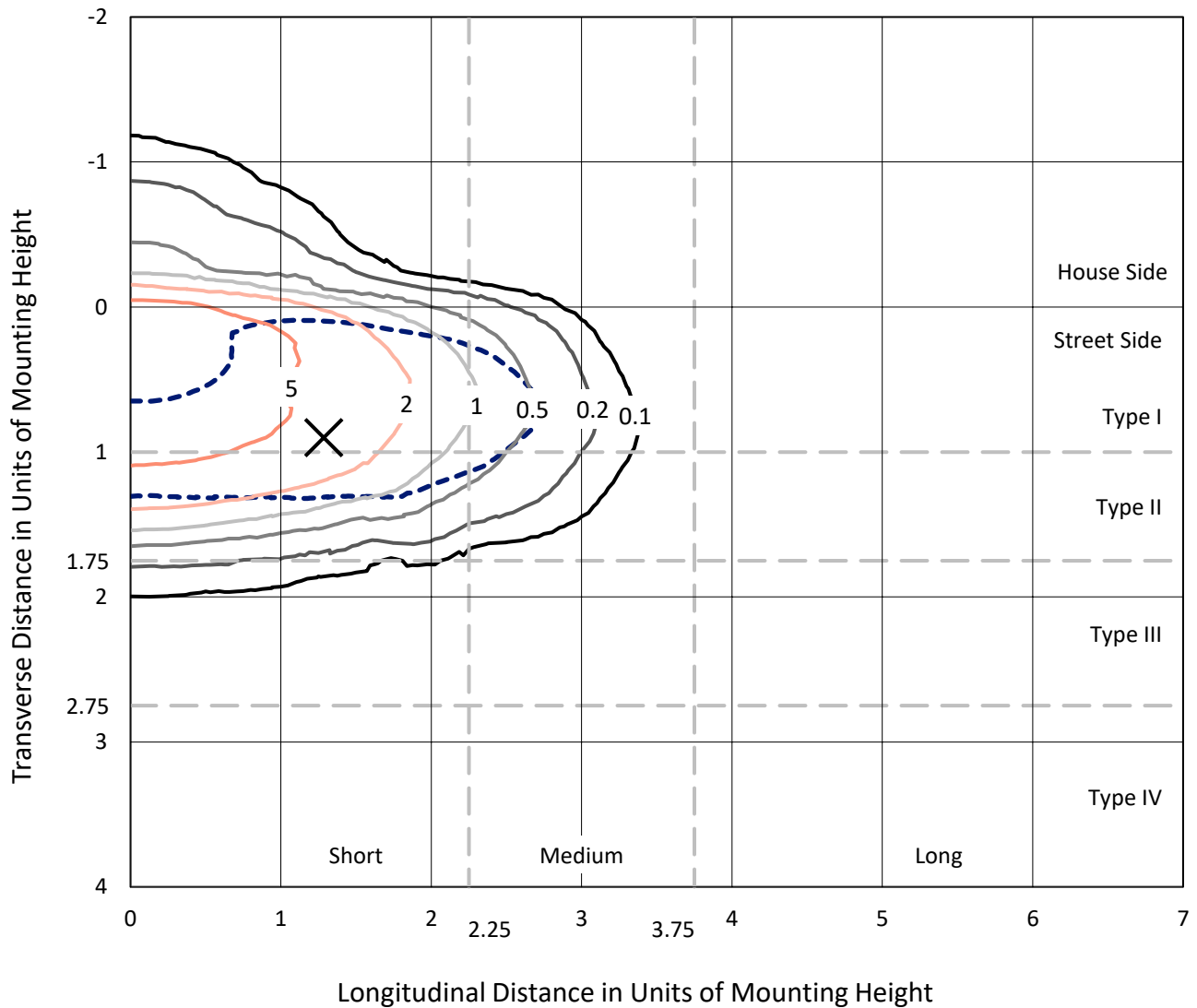
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

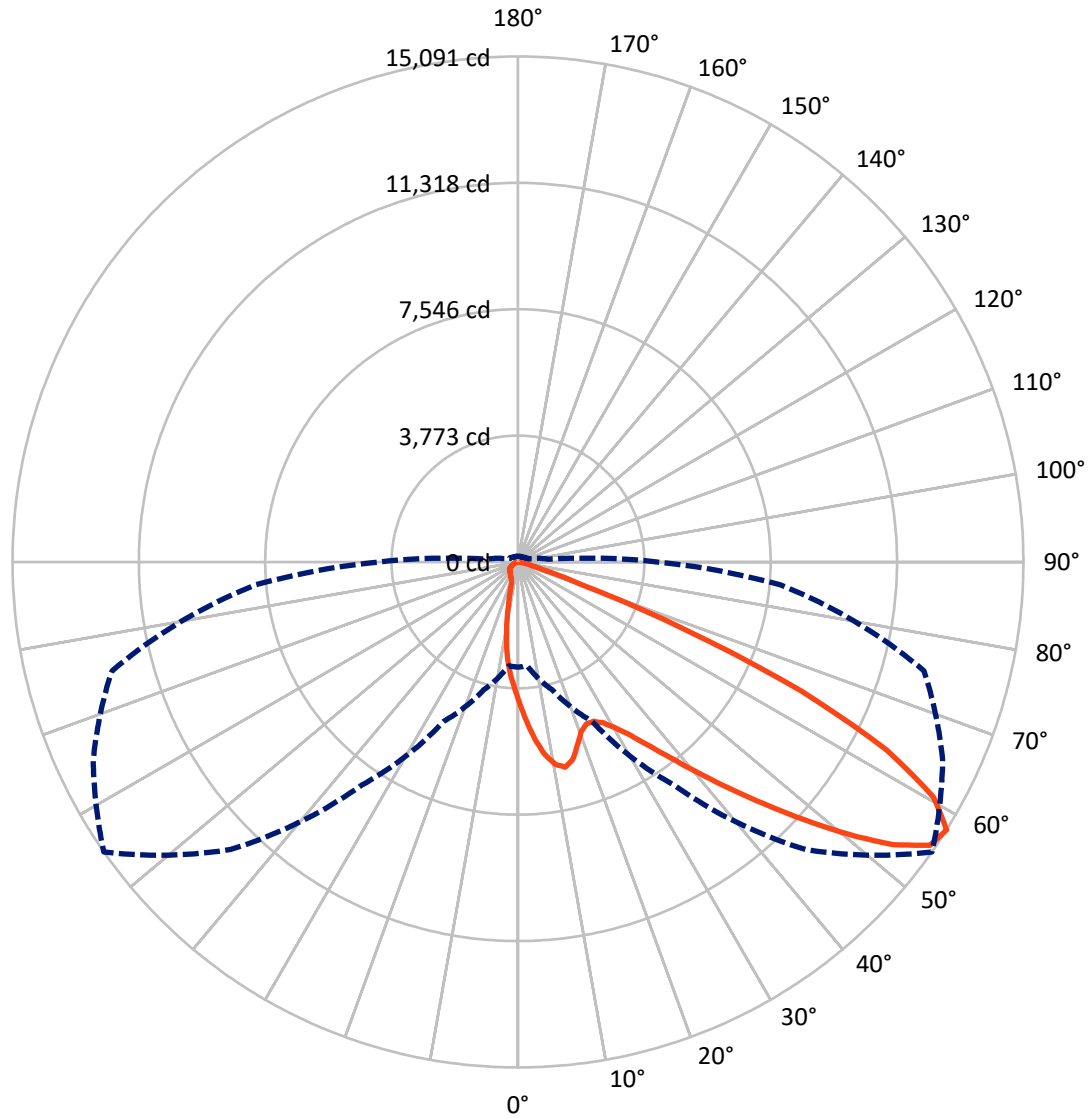
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	1350.3	0.0	1350.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	15939.7	0.0	15939.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	17290.0	0.0	17290.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.7	2.2
10°-20°	936.4	5.4
20°-30°	1498.2	8.7
30°-40°	2535.9	14.7
40°-50°	4163.4	24.1
50°-60°	4575.8	26.5
60°-70°	2624.7	15.2
70°-80°	536.3	3.1
80°-90°	31.6	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°	17290.0	100.0
0°-180°	17290.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949641

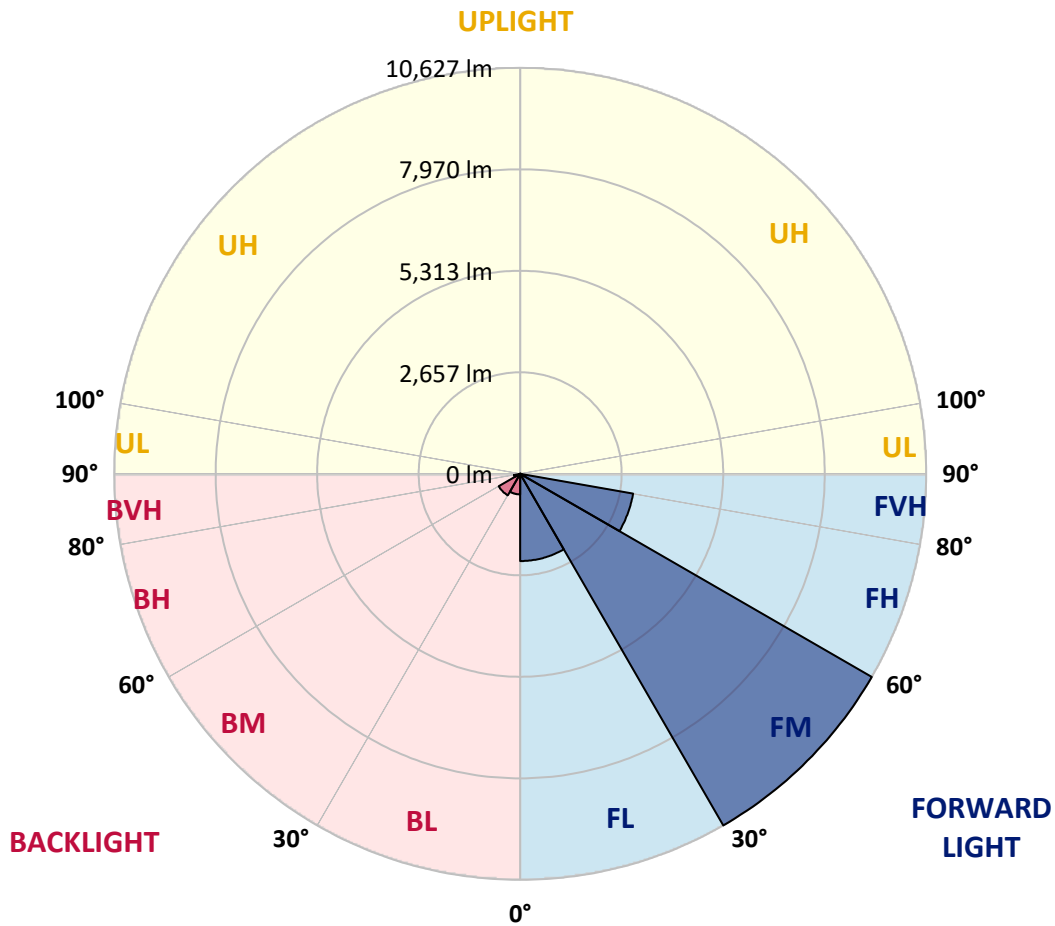
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2283.2	13.2			
FM (30°-60°)	10626.6	61.5			
FH (60°-80°)	3000.4	17.4			G2/5000
FVH (80°-90°)	29.5	0.2			G1/100
BL (0°-30°)	539.1	3.1	B2/1000		
BM (30°-60°)	648.5	3.8	B1/1000		
BH (60°-80°)	160.6	0.9	B1/500		G1/500
BVH (80°-90°)	2.1	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



REPORT NUMBER: P949641
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5
2.5°	5169.7	5104.7	5095.1	5082.3	4958.6	4865.8	4731.5	4584.4	4419.1	4250.7
5°	5972.5	5921.3	5911.7	5852.0	5711.3	5553.5	5314.7	5013.0	4704.9	4342.4
7.5°	6128.2	6118.6	6162.3	6160.1	6140.9	6016.2	5814.7	5455.4	4992.7	4455.4
10°	5434.1	5458.6	5588.7	5702.8	6010.9	6190.0	6146.3	5849.9	5289.1	4584.4
12.5°	4801.9	4773.1	4865.8	4994.9	5353.1	5886.1	6283.8	6179.3	5628.1	4730.5
15°	4405.3	4393.6	4445.8	4505.5	4778.4	5315.8	6123.9	6446.9	5954.4	4903.2
17.5°	4278.4	4268.8	4284.8	4299.7	4476.7	4892.5	5743.3	6611.1	6266.8	5100.4
20°	4381.8	4369.0	4366.9	4355.2	4428.7	4712.3	5398.9	6622.8	6547.1	5279.5
22.5°	4683.5	4668.6	4616.4	4569.5	4575.9	4736.8	5245.4	6505.6	6758.2	5446.9
25°	5230.5	5205.9	5097.2	4939.4	4839.2	4907.4	5268.8	6351.0	6959.7	5578.0
27.5°	5914.9	5882.9	5743.3	5508.7	5279.5	5196.4	5438.4	6244.4	7127.1	5678.2
30°	6585.5	6543.9	6406.4	6224.1	5889.3	5627.1	5744.3	6291.3	7326.5	5782.7
32.5°	7309.4	7270.0	7087.7	6861.7	6584.5	6231.6	6163.3	6520.5	7570.6	5928.8
35°	8225.2	8163.4	7904.3	7596.2	7302.0	6944.8	6730.5	6916.0	7895.8	6151.6
37.5°	9267.9	9184.8	8905.4	8480.1	8096.2	7696.4	7421.4	7459.8	8372.4	6450.1
40°	10250.9	10175.2	9917.2	9516.3	9034.4	8549.4	8256.2	8170.9	9030.2	6813.7
42.5°	10840.5	10772.2	10663.5	10494.0	10087.8	9593.1	9223.2	9038.7	9808.5	7248.7
45°	10873.5	10813.8	10959.9	11157.1	11077.2	10747.7	10296.8	9958.8	10589.9	7657.0
47.5°	10344.7	10304.2	10747.7	11436.5	11779.7	11918.3	11502.6	10802.1	11235.0	7950.2
50°	8903.3	8888.4	9801.0	11065.4	12047.3	12944.0	12774.5	11586.8	11735.0	8101.6
52.5°	7719.9	7665.5	8197.5	9877.8	11658.2	13483.4	14017.6	12356.5	12084.7	8130.4
55°	5855.2	5807.2	6474.7	7890.5	10403.4	13291.5	14927.0	13150.8	12335.2	8056.8
57.5°	3140.8	3111.0	3954.3	5251.8	8132.5	12140.1	15091.2	13990.9	12546.3	7861.7
60°	1222.9	1217.5	1533.1	2548.1	4942.6	9876.7	14262.8	14495.2	12678.5	7621.8
62.5°	739.9	755.9	807.1	1144.0	2183.4	6135.6	12353.3	13921.6	12767.0	7402.2
65°	612.0	613.0	619.4	785.7	1045.9	2567.3	9299.9	12034.6	12548.4	7010.9
67.5°	524.5	534.1	558.7	623.7	737.8	1125.8	5354.1	9322.3	11219.0	6100.4
70°	413.7	426.5	457.4	512.8	569.3	704.7	1978.8	6202.8	8570.7	4598.2
72.5°	348.6	347.6	363.6	416.9	452.0	495.8	761.2	3475.6	4981.0	2195.2
75°	269.7	280.4	300.7	348.6	369.9	359.3	412.6	1269.8	1784.7	665.3
77.5°	211.1	219.6	237.7	284.7	306.0	254.8	237.7	454.2	573.6	238.8
80°	94.9	102.3	162.1	210.0	249.5	175.9	129.0	232.4	254.8	108.7
82.5°	17.1	28.8	94.9	110.9	127.9	114.1	67.2	120.5	124.7	43.7
85°	1.1	2.1	33.1	40.5	51.2	37.3	20.3	48.0	41.6	14.9
87.5°	0.0	0.0	0.0	1.1	1.1	5.3	6.4	8.5	6.4	5.3
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°
4166.5	0°	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5
4176.1	2.5°	4099.3	3947.9	3800.8	3680.3	3609.9	3490.5	3411.6	3398.8	3365.8	3394.6
4186.7	5°	4020.4	3749.6	3475.6	3230.4	3028.9	2768.8	2574.7	2492.6	2421.2	2445.7
4214.4	7.5°	3983.1	3555.6	3129.1	2710.1	2279.4	1863.6	1554.4	1425.4	1327.3	1341.2
4245.4	10°	3933.0	3354.1	2685.6	2045.9	1469.1	1058.7	845.4	766.6	722.8	723.9
4291.2	12.5°	3894.6	3113.1	2170.7	1387.0	894.5	675.9	609.8	590.6	577.8	578.9
4360.5	15°	3875.4	2829.5	1662.1	924.3	639.7	572.5	556.5	548.0	539.5	538.4
4437.3	17.5°	3843.4	2514.0	1216.5	674.9	559.7	536.3	522.4	512.8	502.2	500.0
4503.4	20°	3795.4	2155.7	889.2	570.4	524.5	506.4	487.2	474.4	461.6	459.5
4544.9	22.5°	3707.0	1777.3	683.4	527.7	499.0	478.7	455.2	440.3	427.5	425.4
4524.7	25°	3542.8	1422.2	575.7	501.1	476.6	452.0	426.5	406.2	394.5	392.3
4481.0	27.5°	3334.9	1117.3	522.4	476.6	447.8	425.4	396.6	377.4	366.8	364.6
4423.4	30°	3089.7	860.4	491.5	448.8	413.7	394.5	368.9	352.9	346.5	346.5
4382.9	32.5°	2825.3	687.7	478.7	421.1	383.8	362.5	342.2	335.8	333.7	332.6
4405.3	35°	2576.9	597.0	472.3	398.7	357.2	336.9	328.4	329.4	333.7	333.7
4474.6	37.5°	2356.2	568.3	469.1	382.7	333.7	315.6	320.9	330.5	326.2	326.2
4596.1	40°	2156.8	571.4	467.0	371.0	314.5	303.8	314.5	307.0	296.4	295.3
4744.3	42.5°	2004.3	598.1	462.7	361.4	302.8	295.3	291.1	279.3	278.3	280.4
4897.8	45°	1893.5	621.6	461.6	357.2	290.0	276.1	270.8	259.1	280.4	285.7
4960.7	47.5°	1762.3	621.6	461.6	342.2	268.7	263.3	254.8	242.0	263.3	268.7
4901.0	50°	1592.8	582.1	443.5	325.2	251.6	248.4	233.5	217.5	213.2	216.4
4761.4	52.5°	1378.5	510.7	397.7	301.7	234.6	228.2	210.0	198.3	195.1	195.1
4510.8	55°	1134.4	427.5	335.8	267.6	216.4	204.7	191.9	186.6	183.4	181.2
4160.1	57.5°	922.2	350.8	269.7	237.7	199.4	184.4	180.2	173.8	168.4	165.3
3866.9	60°	757.0	276.1	222.8	211.1	182.3	168.4	167.4	158.9	145.0	142.9
3624.9	62.5°	584.2	202.6	187.6	183.4	165.3	153.5	151.4	134.3	113.0	108.7
3281.6	65°	412.6	157.8	151.4	161.0	147.1	136.5	131.1	105.5	83.2	80.0
2746.4	67.5°	290.0	132.2	119.4	140.7	127.9	114.1	110.9	89.6	69.3	67.2
2076.8	70°	206.8	107.7	98.1	120.5	102.3	100.2	93.8	74.6	56.5	54.4
1027.8	72.5°	146.1	82.1	75.7	104.5	70.4	86.4	76.8	57.6	42.6	40.5
349.7	75°	107.7	58.6	53.3	60.8	51.2	65.0	54.4	38.4	26.7	25.6
157.8	77.5°	78.9	37.3	32.0	29.9	29.9	40.5	29.9	16.0	11.7	10.7
80.0	80°	55.4	17.1	14.9	12.8	11.7	9.6	4.3	2.1	1.1	1.1
27.7	82.5°	33.1	7.5	7.5	5.3	3.2	0.0	0.0	0.0	0.0	0.0
10.7	85°	7.5	3.2	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
4.3	87.5°	1.1	1.1	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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