

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: P949221

Luminaire Tested: **GALN-SB4A-750-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949221
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-SB4A-750-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 350mA 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: 16217 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

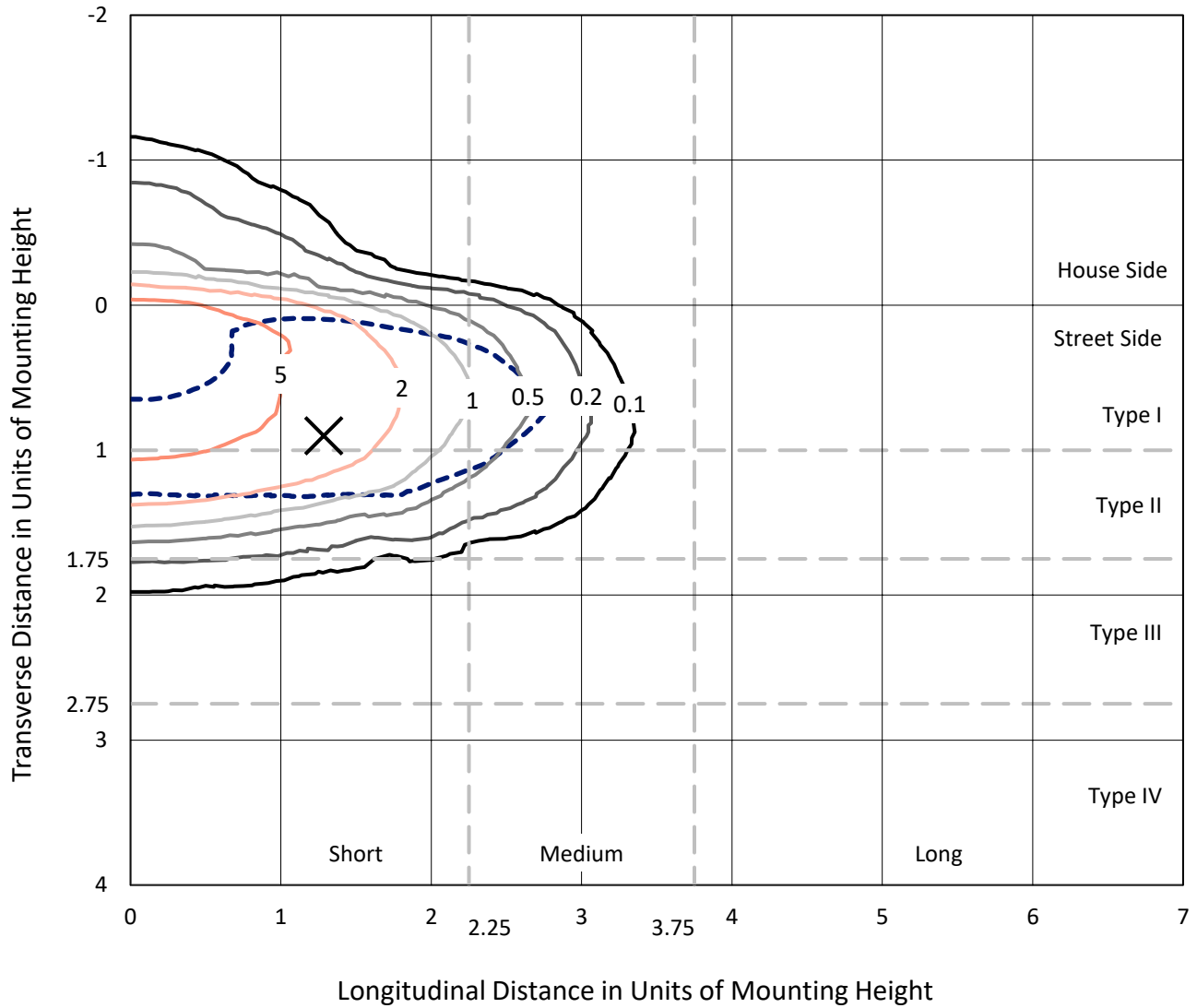
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

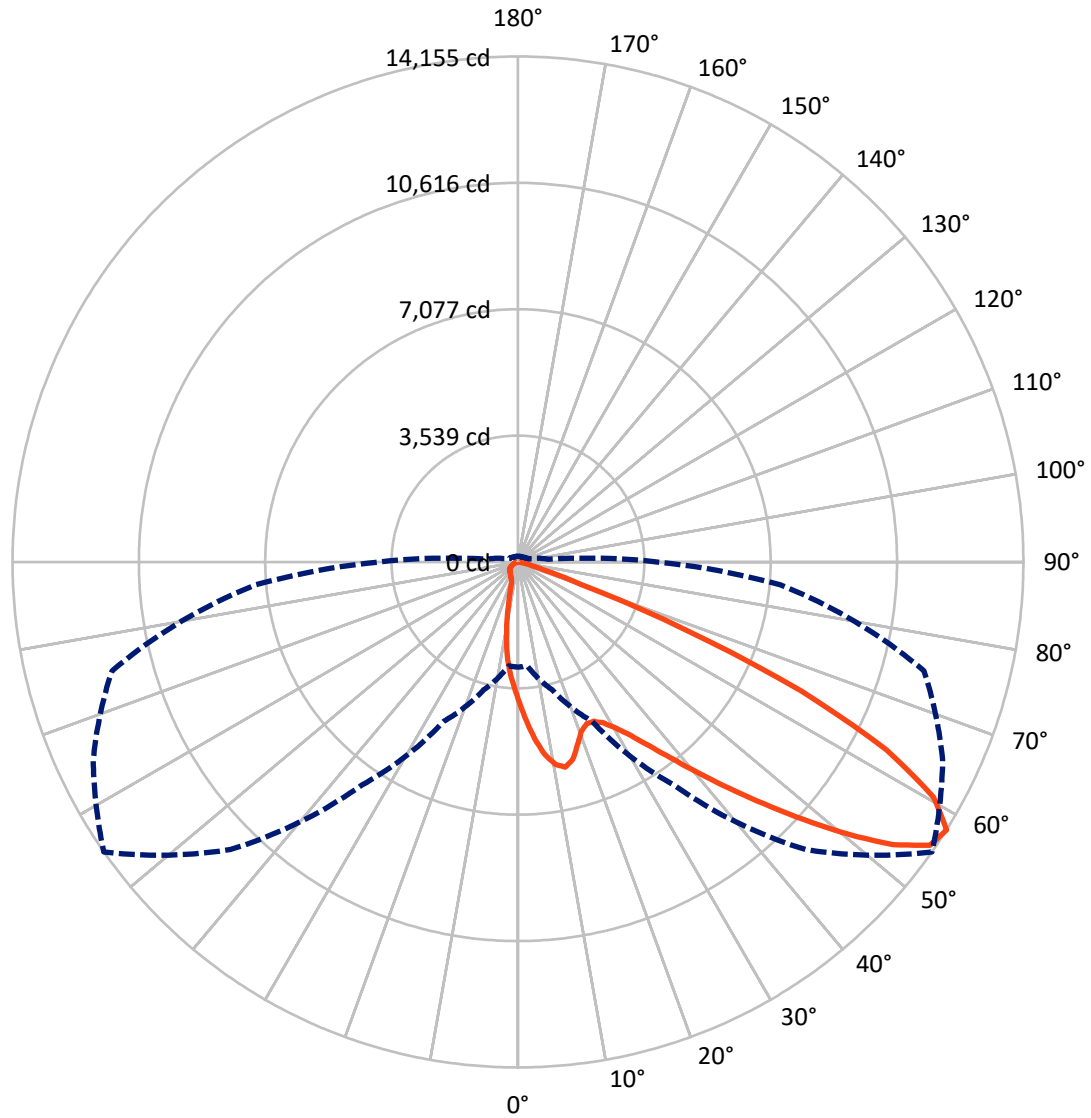
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	1266.5	0.0	1266.5
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	14950.5	0.0	14950.5
	% Fixture	92.2	0.0	92.2
Total	Lumens	16217.0	0.0	16217.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.6	2.2
10°-20°	878.3	5.4
20°-30°	1405.3	8.7
30°-40°	2378.5	14.7
40°-50°	3905.0	24.1
50°-60°	4291.9	26.5
60°-70°	2461.8	15.2
70°-80°	503.0	3.1
80°-90°	29.7	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°	16217.0	100.0
0°-180°	16217.0	100.0

Coefficient of Utilization



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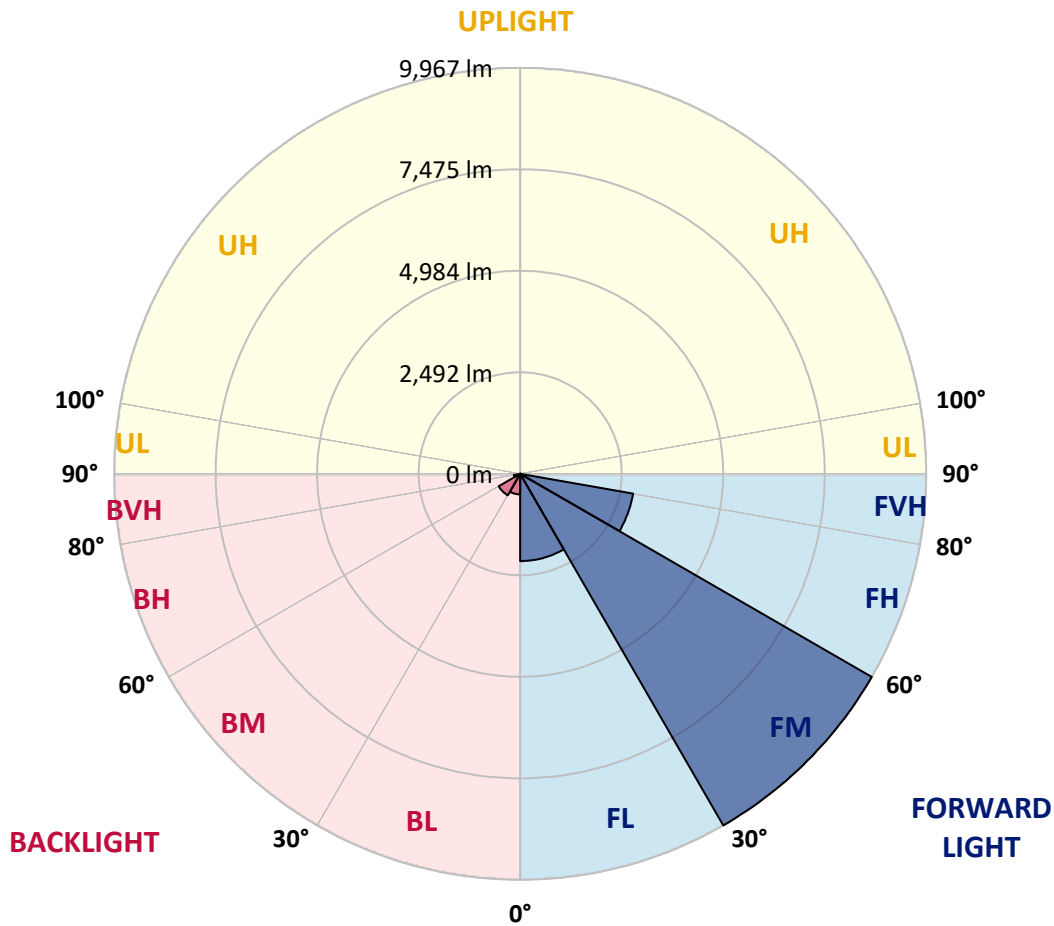
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2141.6	13.2			
FM (30°-60°)	9967.1	61.5			
FH (60°-80°)	2814.2	17.4			G2/5000
FVH (80°-90°)	27.7	0.2			G1/100
BL (0°-30°)	505.6	3.1	B2/1000		
BM (30°-60°)	608.3	3.8	B1/1000		
BH (60°-80°)	150.6	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°	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9
2.5°	4848.9	4787.9	4778.9	4766.9	4650.9	4563.9	4437.9	4299.9	4144.9	3986.9
5°	5601.9	5553.9	5544.9	5488.9	5356.9	5208.9	4984.9	4701.9	4412.9	4072.9
7.5°	5747.8	5738.8	5779.8	5777.8	5759.8	5642.9	5453.9	5116.9	4682.9	4178.9
10°	5096.9	5119.9	5241.9	5348.9	5637.9	5805.8	5764.8	5486.9	4960.9	4299.9
12.5°	4503.9	4476.9	4563.9	4684.9	5020.9	5520.9	5893.8	5795.8	5278.9	4436.9
15°	4131.9	4120.9	4169.9	4225.9	4481.9	4985.9	5743.8	6046.8	5584.9	4598.9
17.5°	4012.9	4003.9	4018.9	4032.9	4198.9	4588.9	5386.9	6200.8	5877.8	4783.9
20°	4109.9	4097.9	4095.9	4084.9	4153.9	4419.9	5063.9	6211.8	6140.8	4951.9
22.5°	4392.9	4378.9	4329.9	4285.9	4291.9	4442.9	4919.9	6101.8	6338.8	5108.9
25°	4905.9	4882.9	4780.9	4632.9	4538.9	4602.9	4941.9	5956.8	6527.8	5231.9
27.5°	5547.9	5517.9	5386.9	5166.9	4951.9	4873.9	5100.9	5856.8	6684.8	5325.9
30°	6176.8	6137.8	6008.8	5837.8	5523.9	5277.9	5387.9	5900.8	6871.8	5423.9
32.5°	6855.8	6818.8	6647.8	6435.8	6175.8	5844.8	5780.8	6115.8	7100.8	5560.9
35°	7714.8	7656.8	7413.8	7124.8	6848.8	6513.8	6312.8	6486.8	7405.8	5769.8
37.5°	8692.8	8614.8	8352.8	7953.8	7593.8	7218.8	6960.8	6996.8	7852.8	6049.8
40°	9614.7	9543.7	9301.8	8925.8	8473.8	8018.8	7743.8	7663.8	8469.8	6390.8
42.5°	10167.7	10103.7	10001.7	9842.7	9461.8	8997.8	8650.8	8477.8	9199.8	6798.8
45°	10198.7	10142.7	10279.7	10464.7	10389.7	10080.7	9657.7	9340.8	9932.7	7181.8
47.5°	9702.7	9664.7	10080.7	10726.7	11048.7	11178.7	10788.7	10131.7	10537.7	7456.8
50°	8350.8	8336.8	9192.8	10378.7	11299.7	12140.7	11981.7	10867.7	11006.7	7598.8
52.5°	7240.8	7189.8	7688.8	9264.8	10934.7	12646.7	13147.7	11589.7	11334.7	7625.8
55°	5491.9	5446.9	6072.8	7400.8	9757.7	12466.7	14000.6	12334.7	11569.7	7556.8
57.5°	2945.9	2917.9	3708.9	4925.9	7627.8	11386.7	14154.6	13122.7	11767.7	7373.8
60°	1147.0	1142.0	1438.0	2389.9	4635.9	9263.8	13377.6	13595.6	11891.7	7148.8
62.5°	694.0	709.0	757.0	1073.0	2047.9	5754.8	11586.7	13057.7	11974.7	6942.8
65°	574.0	575.0	581.0	737.0	981.0	2407.9	8722.8	11287.7	11769.7	6575.8
67.5°	492.0	501.0	524.0	585.0	692.0	1056.0	5021.9	8743.8	10522.7	5721.8
70°	388.0	400.0	429.0	481.0	534.0	661.0	1856.0	5817.8	8038.8	4312.9
72.5°	327.0	326.0	341.0	391.0	424.0	465.0	714.0	3259.9	4671.9	2058.9
75°	253.0	263.0	282.0	327.0	347.0	337.0	387.0	1191.0	1674.0	624.0
77.5°	198.0	206.0	223.0	267.0	287.0	239.0	223.0	426.0	538.0	224.0
80°	89.0	96.0	152.0	197.0	234.0	165.0	121.0	218.0	239.0	102.0
82.5°	16.0	27.0	89.0	104.0	120.0	107.0	63.0	113.0	117.0	41.0
85°	1.0	2.0	31.0	38.0	48.0	35.0	19.0	45.0	39.0	14.0
87.5°	0.0	0.0	0.0	1.0	1.0	5.0	6.0	8.0	6.0	5.0
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°
3907.9	0°	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9
3916.9	2.5°	3844.9	3702.9	3564.9	3451.9	3385.9	3273.9	3199.9	3187.9	3156.9	3183.9
3926.9	5°	3770.9	3516.9	3259.9	3029.9	2840.9	2596.9	2414.9	2337.9	2270.9	2293.9
3952.9	7.5°	3735.9	3334.9	2934.9	2541.9	2137.9	1748.0	1458.0	1337.0	1245.0	1258.0
3981.9	10°	3688.9	3145.9	2518.9	1918.9	1378.0	993.0	793.0	719.0	678.0	679.0
4024.9	12.5°	3652.9	2919.9	2035.9	1301.0	839.0	634.0	572.0	554.0	542.0	543.0
4089.9	15°	3634.9	2653.9	1559.0	867.0	600.0	537.0	522.0	514.0	506.0	505.0
4161.9	17.5°	3604.9	2357.9	1141.0	633.0	525.0	503.0	490.0	481.0	471.0	469.0
4223.9	20°	3559.9	2021.9	834.0	535.0	492.0	475.0	457.0	445.0	433.0	431.0
4262.9	22.5°	3476.9	1667.0	641.0	495.0	468.0	449.0	427.0	413.0	401.0	399.0
4243.9	25°	3322.9	1334.0	540.0	470.0	447.0	424.0	400.0	381.0	370.0	368.0
4202.9	27.5°	3127.9	1048.0	490.0	447.0	420.0	399.0	372.0	354.0	344.0	342.0
4148.9	30°	2897.9	807.0	461.0	421.0	388.0	370.0	346.0	331.0	325.0	325.0
4110.9	32.5°	2649.9	645.0	449.0	395.0	360.0	340.0	321.0	315.0	313.0	312.0
4131.9	35°	2416.9	560.0	443.0	374.0	335.0	316.0	308.0	309.0	313.0	313.0
4196.9	37.5°	2209.9	533.0	440.0	359.0	313.0	296.0	301.0	310.0	306.0	306.0
4310.9	40°	2022.9	536.0	438.0	348.0	295.0	285.0	295.0	288.0	278.0	277.0
4449.9	42.5°	1880.0	561.0	434.0	339.0	284.0	277.0	273.0	262.0	261.0	263.0
4593.9	45°	1776.0	583.0	433.0	335.0	272.0	259.0	254.0	243.0	263.0	268.0
4652.9	47.5°	1653.0	583.0	433.0	321.0	252.0	247.0	239.0	227.0	247.0	252.0
4596.9	50°	1494.0	546.0	416.0	305.0	236.0	233.0	219.0	204.0	200.0	203.0
4465.9	52.5°	1293.0	479.0	373.0	283.0	220.0	214.0	197.0	186.0	183.0	183.0
4230.9	55°	1064.0	401.0	315.0	251.0	203.0	192.0	180.0	175.0	172.0	170.0
3901.9	57.5°	865.0	329.0	253.0	223.0	187.0	173.0	169.0	163.0	158.0	155.0
3626.9	60°	710.0	259.0	209.0	198.0	171.0	158.0	157.0	149.0	136.0	134.0
3399.9	62.5°	548.0	190.0	176.0	172.0	155.0	144.0	142.0	126.0	106.0	102.0
3077.9	65°	387.0	148.0	142.0	151.0	138.0	128.0	123.0	99.0	78.0	75.0
2575.9	67.5°	272.0	124.0	112.0	132.0	120.0	107.0	104.0	84.0	65.0	63.0
1947.9	70°	194.0	101.0	92.0	113.0	96.0	94.0	88.0	70.0	53.0	51.0
964.0	72.5°	137.0	77.0	71.0	98.0	66.0	81.0	72.0	54.0	40.0	38.0
328.0	75°	101.0	55.0	50.0	57.0	48.0	61.0	51.0	36.0	25.0	24.0
148.0	77.5°	74.0	35.0	30.0	28.0	28.0	38.0	28.0	15.0	11.0	10.0
75.0	80°	52.0	16.0	14.0	12.0	11.0	9.0	4.0	2.0	1.0	1.0
26.0	82.5°	31.0	7.0	7.0	5.0	3.0	0.0	0.0	0.0	0.0	0.0
10.0	85°	7.0	3.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
4.0	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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