

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: P950712

Luminaire Tested: **GALN-SB5A-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950712
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-SB5A-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 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: 17360 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

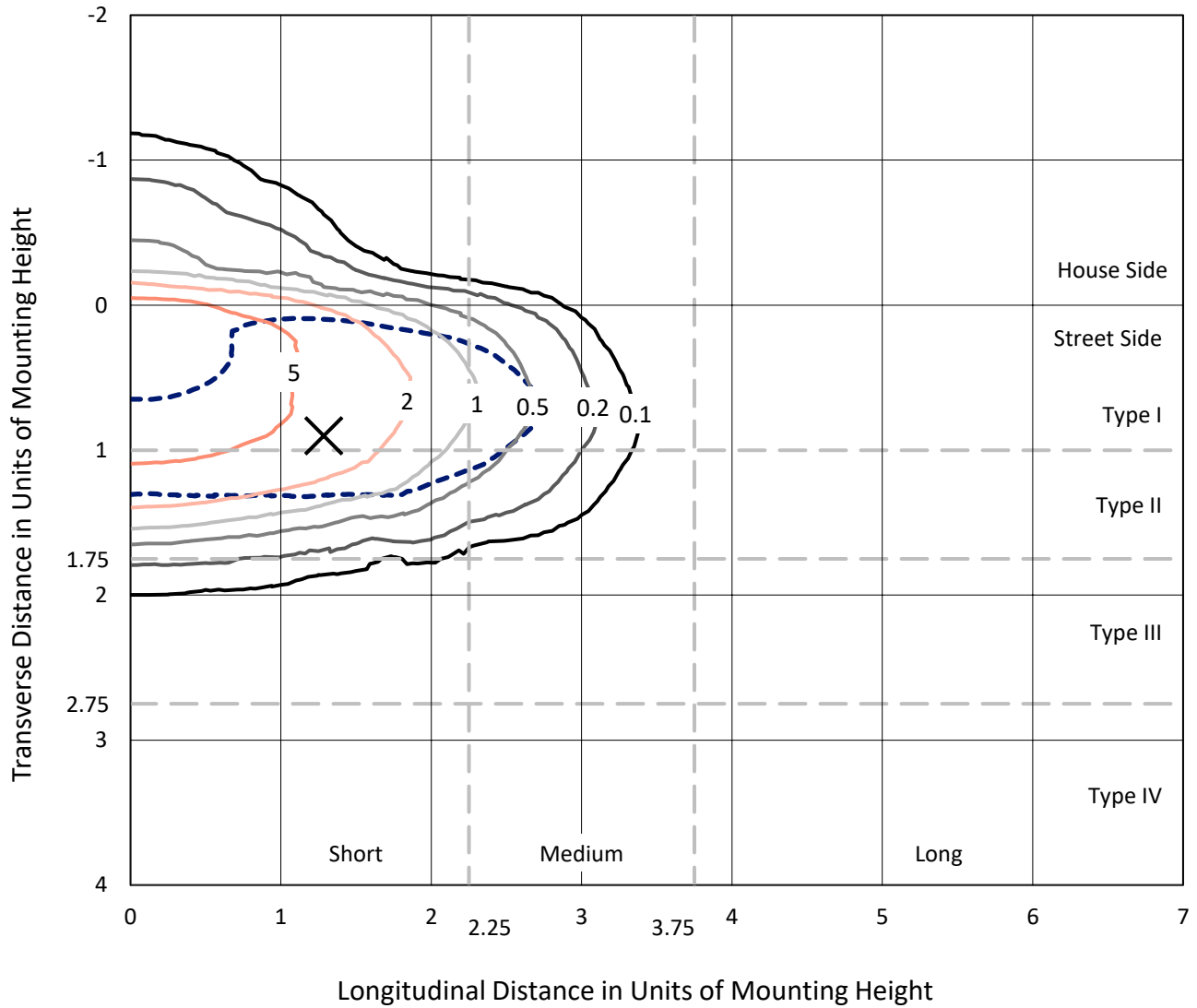
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

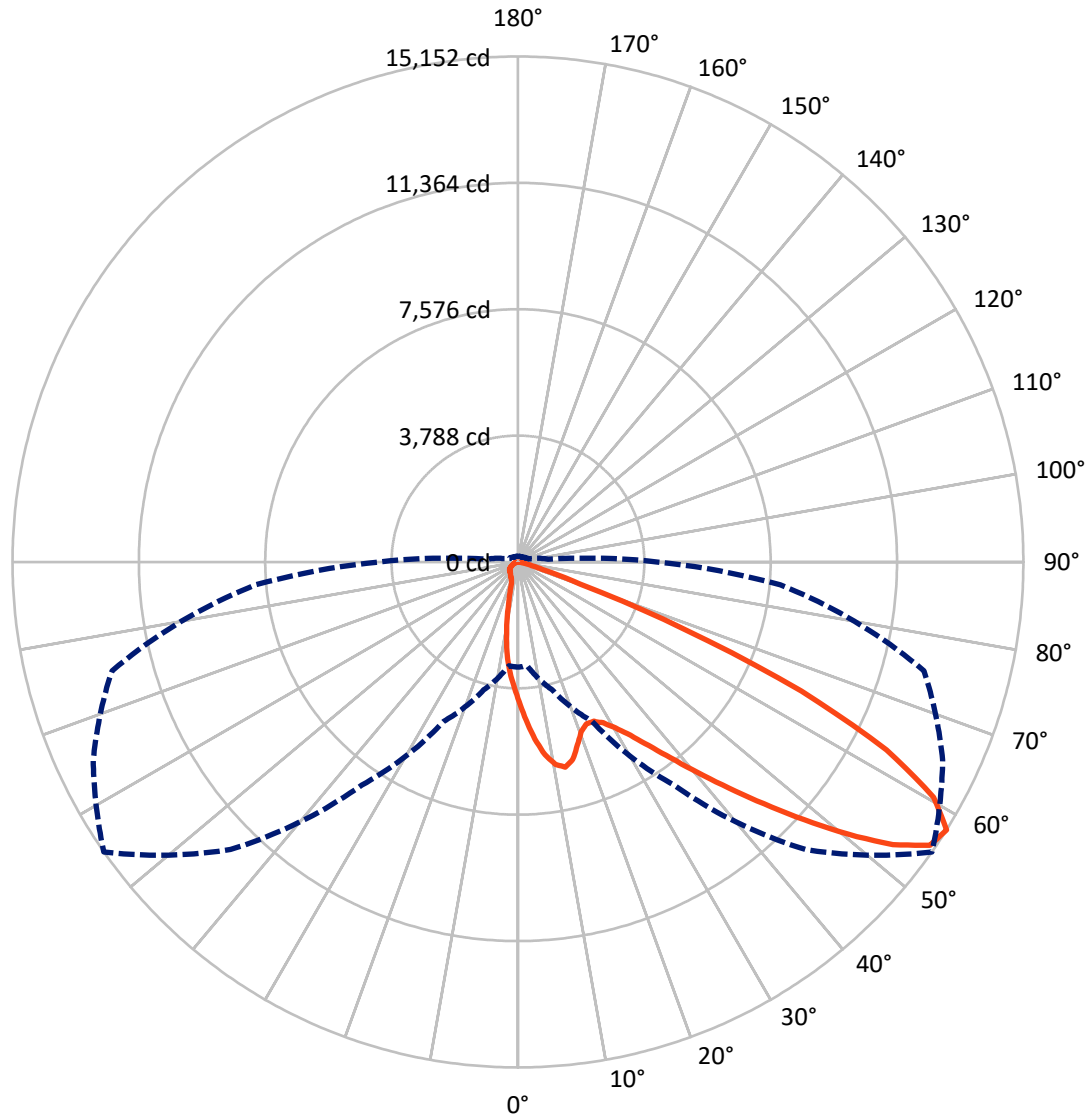
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	1355.8	0.0	1355.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	16004.3	0.0	16004.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	17360.0	0.0	17360.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.2	2.2
10°-20°	940.2	5.4
20°-30°	1504.3	8.7
30°-40°	2546.1	14.7
40°-50°	4180.2	24.1
50°-60°	4594.4	26.5
60°-70°	2635.3	15.2
70°-80°	538.5	3.1
80°-90°	31.8	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°	17360.0	100.0
0°-180°	17360.0	100.0

Coefficient of Utilization



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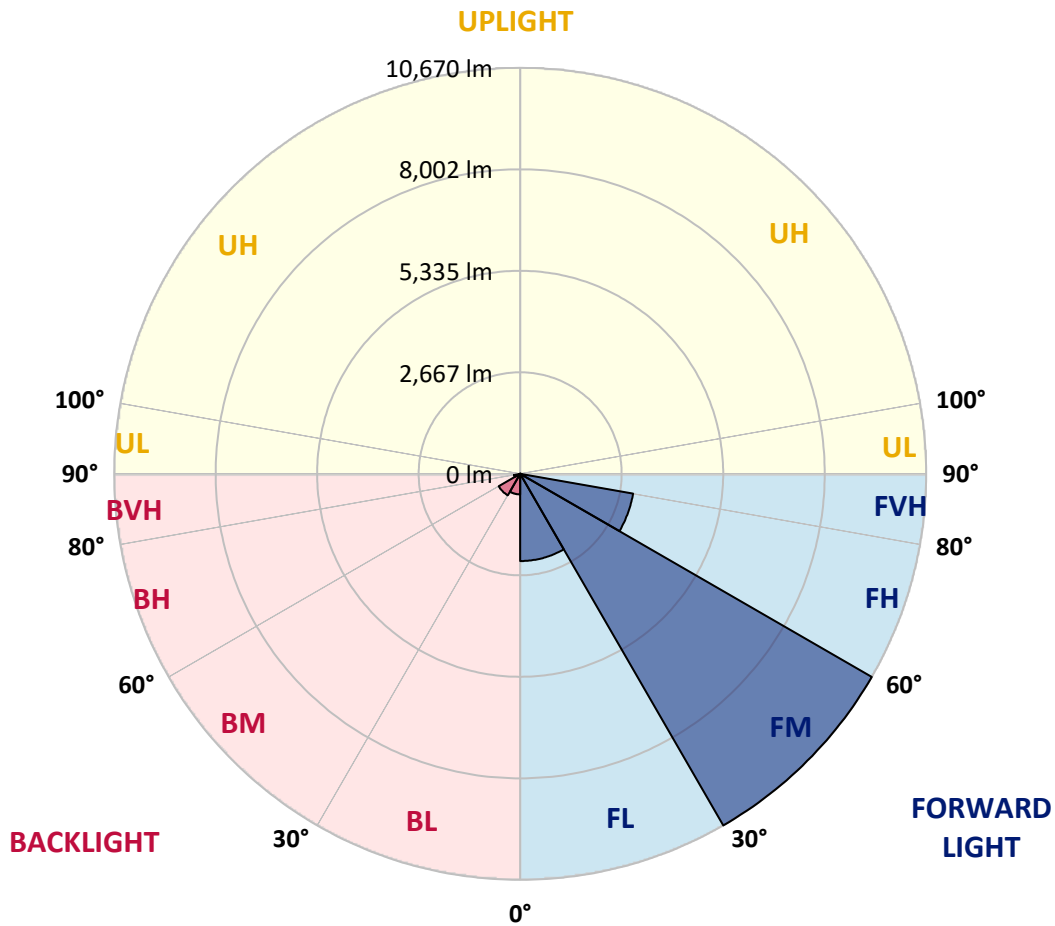
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2292.5	13.2			
FM (30°-60°)	10669.6	61.5			
FH (60°-80°)	3012.6	17.4			G2/5000
FVH (80°-90°)	29.6	0.2			G1/100
BL (0°-30°)	541.3	3.1	B2/1000		
BM (30°-60°)	651.1	3.8	B1/1000		
BH (60°-80°)	161.2	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4183.3	4183.3	4183.3	4183.3	4183.3	4183.3	4183.3	4183.3	4183.3	4183.3
2.5°	5190.6	5125.3	5115.7	5102.9	4978.7	4885.5	4750.7	4602.9	4437.0	4267.9
5°	5996.7	5945.3	5935.7	5875.7	5734.4	5576.0	5336.2	5033.3	4723.9	4360.0
7.5°	6153.0	6143.3	6187.2	6185.1	6165.8	6040.6	5838.3	5477.5	5012.9	4473.4
10°	5456.1	5480.7	5611.3	5725.9	6035.2	6215.1	6171.2	5873.6	5310.5	4602.9
12.5°	4821.3	4792.4	4885.5	5015.1	5374.7	5910.0	6309.3	6204.3	5650.9	4749.6
15°	4423.1	4411.3	4463.8	4523.7	4797.8	5337.3	6148.7	6473.0	5978.5	4923.0
17.5°	4295.7	4286.1	4302.2	4317.1	4494.8	4912.3	5766.5	6637.9	6292.1	5121.0
20°	4399.6	4386.7	4384.6	4372.8	4446.7	4731.4	5420.8	6649.7	6573.7	5300.9
22.5°	4702.5	4687.5	4635.1	4588.0	4594.4	4756.0	5266.6	6531.9	6785.6	5468.9
25°	5251.6	5227.0	5117.8	4959.4	4858.8	4927.3	5290.2	6376.7	6987.9	5600.6
27.5°	5938.9	5906.8	5766.5	5531.0	5300.9	5217.4	5460.4	6269.6	7156.0	5701.2
30°	6612.2	6570.4	6432.4	6249.3	5913.2	5649.9	5767.6	6316.7	7356.2	5806.1
32.5°	7339.0	7299.4	7116.4	6889.4	6611.1	6256.8	6188.3	6546.9	7601.3	5952.8
35°	8258.5	8196.5	7936.3	7627.0	7331.5	6972.9	6757.8	6944.0	7927.8	6176.5
37.5°	9305.5	9222.0	8941.5	8514.4	8129.0	7727.6	7451.4	7490.0	8406.3	6476.2
40°	10292.4	10216.4	9957.4	9554.9	9071.0	8584.0	8289.6	8204.0	9066.7	6841.3
42.5°	10884.4	10815.9	10706.7	10536.5	10128.6	9631.9	9260.5	9075.3	9848.2	7278.0
45°	10917.6	10857.6	11004.3	11202.3	11122.0	10791.2	10338.4	9999.1	10632.8	7688.0
47.5°	10386.6	10345.9	10791.2	11482.8	11827.4	11966.6	11549.1	10845.8	11280.4	7982.4
50°	8939.4	8924.4	9840.7	11110.2	12096.1	12996.4	12826.2	11633.7	11782.5	8134.4
52.5°	7751.2	7696.6	8230.7	9917.8	11705.4	13538.0	14074.3	12406.6	12133.6	8163.3
55°	5878.9	5830.8	6500.9	7922.4	10445.5	13345.3	14987.4	13204.0	12385.1	8089.4
57.5°	3153.6	3123.6	3970.3	5273.1	8165.4	12189.3	15152.3	14047.6	12597.1	7893.5
60°	1227.8	1222.5	1539.3	2558.4	4962.6	9916.7	14320.5	14553.9	12729.8	7652.7
62.5°	742.9	759.0	810.3	1148.6	2192.3	6160.5	12403.3	13978.0	12818.7	7432.2
65°	614.4	615.5	621.9	788.9	1050.1	2577.7	9337.6	12083.3	12599.2	7039.3
67.5°	526.7	536.3	560.9	626.2	740.8	1130.4	5375.8	9360.0	11264.4	6125.1
70°	415.3	428.2	459.2	514.9	571.6	707.6	1986.8	6227.9	8605.4	4616.9
72.5°	350.0	349.0	365.0	418.5	453.9	497.8	764.3	3489.7	5001.2	2204.1
75°	270.8	281.5	301.9	350.0	371.4	360.7	414.3	1274.9	1791.9	668.0
77.5°	211.9	220.5	238.7	285.8	307.2	255.8	238.7	456.0	575.9	239.8
80°	95.3	102.8	162.7	210.9	250.5	176.6	129.5	233.4	255.8	109.2
82.5°	17.1	28.9	95.3	111.3	128.5	114.5	67.4	121.0	125.2	43.9
85°	1.1	2.1	33.2	40.7	51.4	37.5	20.3	48.2	41.7	15.0
87.5°	0.0	0.0	0.0	1.1	1.1	5.4	6.4	8.6	6.4	5.4
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°
4183.3	0°	4183.3	4183.3	4183.3	4183.3	4183.3	4183.3	4183.3	4183.3	4183.3	4183.3
4193.0	2.5°	4115.9	3963.9	3816.2	3695.2	3624.6	3504.7	3425.5	3412.6	3379.4	3408.3
4203.7	5°	4036.7	3764.8	3489.7	3243.5	3041.2	2780.0	2585.1	2502.7	2431.0	2455.6
4231.5	7.5°	3999.2	3570.0	3141.8	2721.1	2288.6	1871.2	1560.7	1431.2	1332.7	1346.6
4262.5	10°	3948.9	3367.6	2696.5	2054.2	1475.1	1063.0	848.9	769.7	725.8	726.8
4308.6	12.5°	3910.4	3125.7	2179.4	1392.7	898.1	678.7	612.3	593.0	580.2	581.3
4378.2	15°	3891.1	2841.0	1668.8	928.1	642.3	574.8	558.8	550.2	541.6	540.6
4455.2	17.5°	3859.0	2524.1	1221.4	677.6	562.0	538.4	524.5	514.9	504.2	502.0
4521.6	20°	3810.8	2164.5	892.8	572.7	526.7	508.5	489.2	476.4	463.5	461.4
4563.3	22.5°	3722.0	1784.4	686.2	529.9	501.0	480.6	457.1	442.1	429.3	427.1
4543.0	25°	3557.1	1428.0	578.0	503.1	478.5	453.9	428.2	407.8	396.1	393.9
4499.1	27.5°	3348.4	1121.8	524.5	478.5	449.6	427.1	398.2	378.9	368.2	366.1
4441.3	30°	3102.2	863.9	493.5	450.7	415.3	396.1	370.4	354.3	347.9	347.9
4400.6	32.5°	2836.7	690.4	480.6	422.8	385.4	364.0	343.6	337.2	335.1	334.0
4423.1	35°	2587.3	599.5	474.2	400.3	358.6	338.3	329.7	330.8	335.1	335.1
4492.7	37.5°	2365.7	570.6	471.0	384.3	335.1	316.9	322.2	331.8	327.6	327.6
4614.7	40°	2165.5	573.8	468.9	372.5	315.8	305.1	315.8	308.3	297.6	296.5
4763.5	42.5°	2012.5	600.5	464.6	362.9	304.0	296.5	292.2	280.5	279.4	281.5
4917.7	45°	1901.1	624.1	463.5	358.6	291.2	277.2	271.9	260.1	281.5	286.9
4980.8	47.5°	1769.5	624.1	463.5	343.6	269.8	264.4	255.8	243.0	264.4	269.8
4920.9	50°	1599.3	584.5	445.3	326.5	252.6	249.4	234.4	218.4	214.1	217.3
4780.6	52.5°	1384.1	512.7	399.3	302.9	235.5	229.1	210.9	199.1	195.9	195.9
4529.1	55°	1139.0	429.3	337.2	268.7	217.3	205.5	192.7	187.3	184.1	182.0
4176.9	57.5°	925.9	352.2	270.8	238.7	200.2	185.2	180.9	174.5	169.1	165.9
3882.5	60°	760.0	277.2	223.7	211.9	183.0	169.1	168.1	159.5	145.6	143.4
3639.5	62.5°	586.6	203.4	188.4	184.1	165.9	154.1	152.0	134.9	113.5	109.2
3294.9	65°	414.3	158.4	152.0	161.6	147.7	137.0	131.7	106.0	83.5	80.3
2757.5	67.5°	291.2	132.7	119.9	141.3	128.5	114.5	111.3	89.9	69.6	67.4
2085.2	70°	207.7	108.1	98.5	121.0	102.8	100.6	94.2	74.9	56.7	54.6
1031.9	72.5°	146.7	82.4	76.0	104.9	70.6	86.7	77.1	57.8	42.8	40.7
351.1	75°	108.1	58.9	53.5	61.0	51.4	65.3	54.6	38.5	26.8	25.7
158.4	77.5°	79.2	37.5	32.1	30.0	30.0	40.7	30.0	16.1	11.8	10.7
80.3	80°	55.7	17.1	15.0	12.8	11.8	9.6	4.3	2.1	1.1	1.1
27.8	82.5°	33.2	7.5	7.5	5.4	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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