

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: P947436

Luminaire Tested: **GALN-SB2D-750-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947436
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-750-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 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: 18357 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

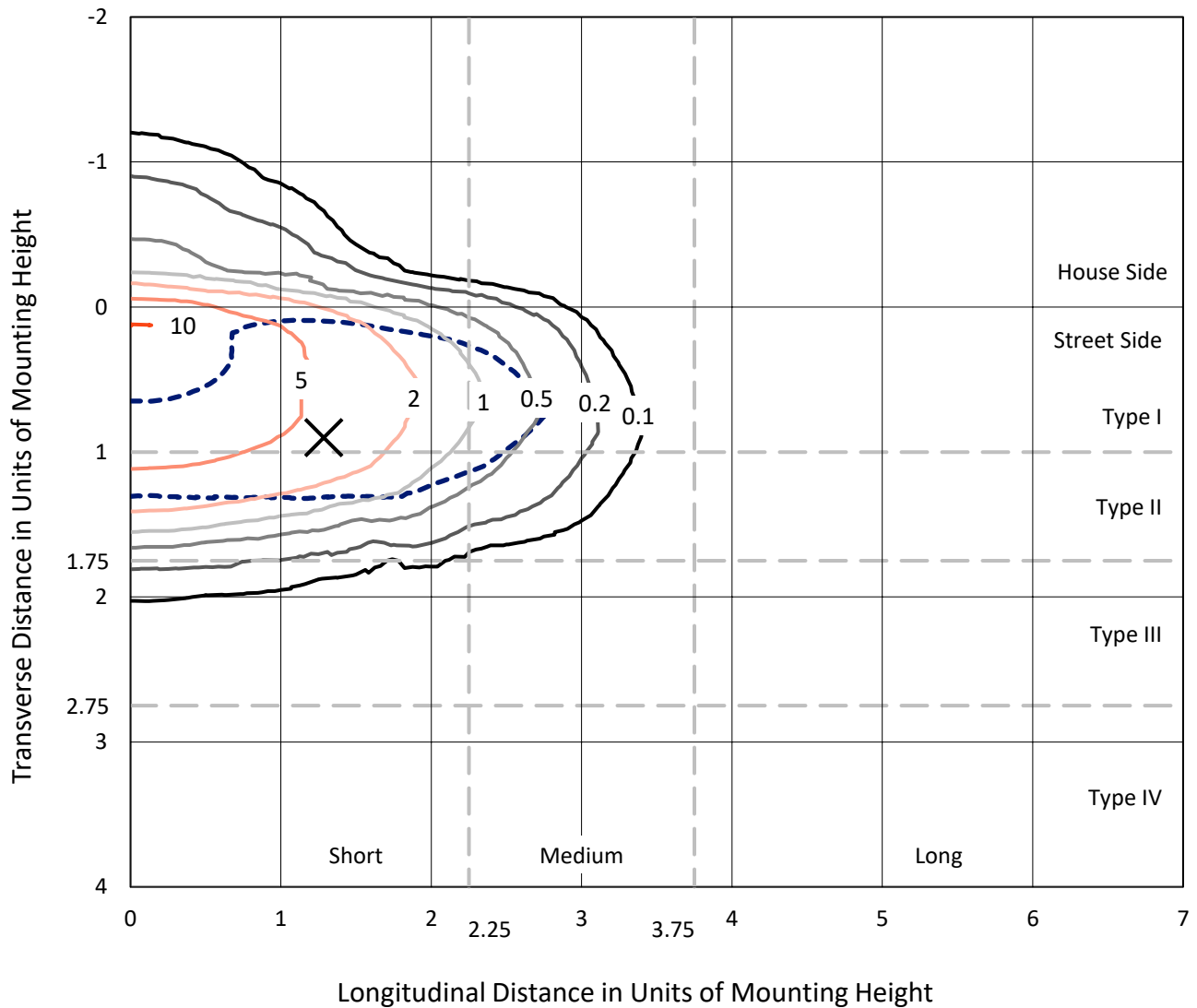
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

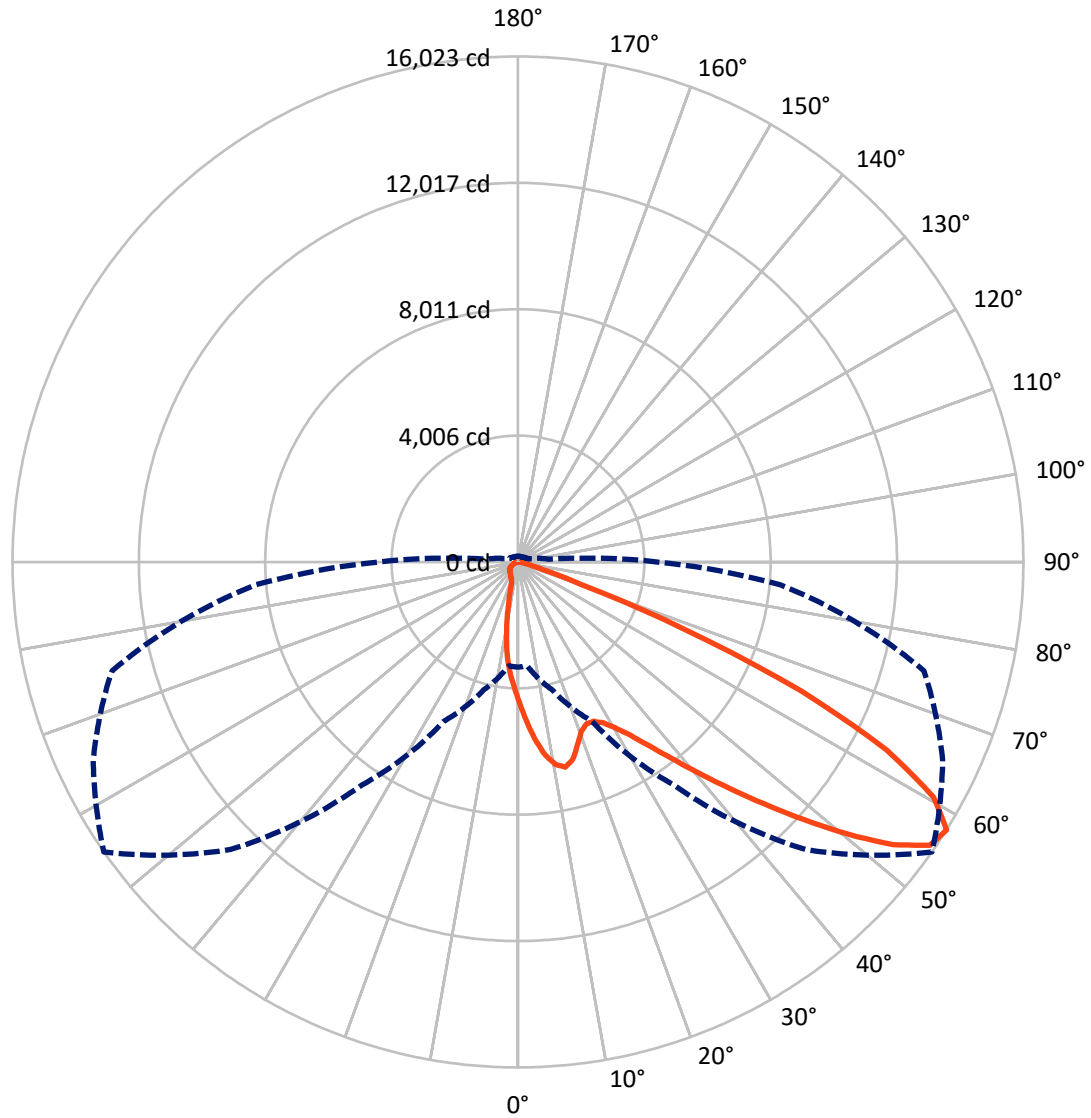
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	1433.6	0.0	1433.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	16923.4	0.0	16923.4
	% Fixture	92.2	0.0	92.2
Total	Lumens	18357.0	0.0	18357.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.6	2.2
10°-20°	994.2	5.4
20°-30°	1590.7	8.7
30°-40°	2692.4	14.7
40°-50°	4420.3	24.1
50°-60°	4858.2	26.5
60°-70°	2786.7	15.2
70°-80°	569.4	3.1
80°-90°	33.6	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°	18357.0	100.0
0°-180°	18357.0	100.0

Coefficient of Utilization



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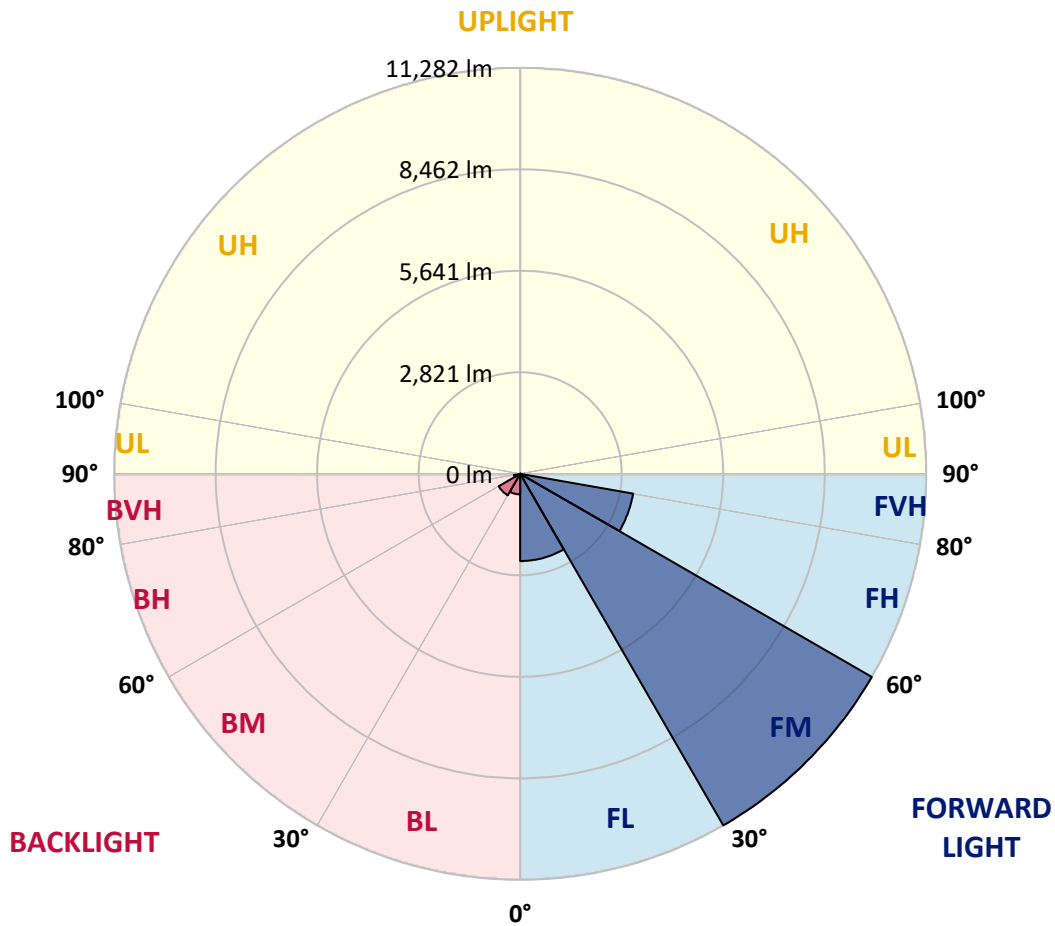
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2424.2	13.2			
FM (30°-60°)	11282.3	61.5			
FH (60°-80°)	3185.6	17.4			G2/5000
FVH (80°-90°)	31.3	0.2			G1/100
BL (0°-30°)	572.3	3.1	B2/1000		
BM (30°-60°)	688.5	3.8	B1/1000		
BH (60°-80°)	170.5	0.9	B1/500		G1/500
BVH (80°-90°)	2.3	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°	4423.6	4423.6	4423.6	4423.6	4423.6	4423.6	4423.6	4423.6	4423.6	4423.6
2.5°	5488.7	5419.7	5409.5	5395.9	5264.6	5166.1	5023.5	4867.3	4691.9	4513.0
5°	6341.1	6286.7	6276.6	6213.2	6063.8	5896.2	5642.7	5322.3	4995.2	4610.4
7.5°	6506.3	6496.1	6542.6	6540.3	6519.9	6387.5	6173.5	5792.1	5300.8	4730.3
10°	5769.5	5795.5	5933.6	6054.7	6381.8	6572.0	6525.6	6210.9	5615.5	4867.3
12.5°	5098.2	5067.7	5166.1	5303.1	5683.4	6249.4	6671.6	6560.7	5975.5	5022.4
15°	4677.1	4664.7	4720.2	4783.5	5073.3	5643.8	6501.8	6844.8	6321.8	5205.7
17.5°	4542.4	4532.2	4549.2	4565.1	4753.0	5194.4	6097.7	7019.1	6653.5	5415.2
20°	4652.2	4638.7	4636.4	4623.9	4702.0	5003.1	5732.1	7031.6	6951.2	5605.3
22.5°	4972.6	4956.7	4901.3	4851.5	4858.2	5029.2	5569.1	6907.0	7175.3	5783.0
25°	5553.3	5527.2	5411.8	5244.2	5137.8	5210.3	5594.0	6742.9	7389.2	5922.3
27.5°	6280.0	6246.0	6097.7	5848.7	5605.3	5517.0	5774.0	6629.7	7567.0	6028.7
30°	6991.9	6947.8	6801.8	6608.2	6252.8	5974.3	6098.8	6679.5	7778.6	6139.6
32.5°	7760.5	7718.6	7525.1	7285.1	6990.8	6616.1	6543.7	6922.9	8037.8	6294.7
35°	8732.8	8667.2	8392.1	8065.0	7752.6	7373.4	7145.9	7342.8	8383.1	6531.2
37.5°	9839.9	9751.6	9455.0	9003.4	8595.9	8171.4	7879.4	7920.1	8889.1	6848.2
40°	10883.5	10803.1	10529.2	10103.6	9592.0	9077.0	8765.7	8675.1	9587.5	7234.2
42.5°	11509.5	11437.0	11321.6	11141.6	10710.3	10185.1	9792.3	9596.5	10413.8	7696.0
45°	11544.6	11481.2	11636.2	11845.7	11760.8	11411.0	10932.2	10573.4	11243.5	8129.5
47.5°	10983.1	10940.1	11411.0	12142.2	12506.7	12653.9	12212.4	11468.7	11928.3	8440.8
50°	9452.8	9436.9	10405.8	11748.3	12790.8	13742.8	13562.8	12301.8	12459.2	8601.5
52.5°	8196.3	8138.6	8703.4	10487.3	12377.7	14315.5	14882.6	13119.1	12830.4	8632.1
55°	6216.6	6165.6	6874.2	8377.4	11045.4	14111.8	15848.2	13962.4	13096.4	8554.0
57.5°	3334.7	3303.0	4198.3	5575.9	8634.4	12889.3	16022.5	14854.3	13320.6	8346.9
60°	1298.3	1292.7	1627.7	2705.3	5247.6	10486.2	15143.0	15389.7	13460.9	8092.2
62.5°	785.6	802.5	856.9	1214.6	2318.2	6514.3	13115.7	14780.7	13554.9	7859.0
65°	649.7	650.9	657.7	834.2	1110.4	2725.7	9873.8	12777.2	13322.8	7443.6
67.5°	556.9	567.1	593.1	662.2	783.3	1195.3	5684.6	9897.6	11911.3	6476.9
70°	439.2	452.8	485.6	544.5	604.5	748.2	2100.9	6585.6	9099.6	4882.0
72.5°	370.1	369.0	386.0	442.6	479.9	526.3	808.2	3690.1	5288.4	2330.6
75°	286.4	297.7	319.2	370.1	392.8	381.5	438.1	1348.1	1894.9	706.3
77.5°	224.1	233.2	252.4	302.2	324.9	270.5	252.4	482.2	609.0	253.6
80°	100.7	108.7	172.1	223.0	264.9	186.8	137.0	246.8	270.5	115.5
82.5°	18.1	30.6	100.7	117.7	135.8	121.1	71.3	127.9	132.4	46.4
85°	1.1	2.3	35.1	43.0	54.3	39.6	21.5	50.9	44.1	15.8
87.5°	0.0	0.0	0.0	1.1	1.1	5.7	6.8	9.1	6.8	5.7
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°
4423.6	0°	4423.6	4423.6	4423.6	4423.6	4423.6	4423.6	4423.6	4423.6	4423.6	4423.6
4433.8	2.5°	4352.3	4191.5	4035.3	3907.4	3832.7	3705.9	3622.2	3608.6	3573.5	3604.1
4445.1	5°	4268.5	3981.0	3690.1	3429.7	3215.8	2939.6	2733.6	2646.5	2570.6	2596.6
4474.5	7.5°	4228.9	3775.0	3322.2	2877.4	2420.1	1978.6	1650.4	1513.4	1409.3	1424.0
4507.3	10°	4175.7	3561.1	2851.3	2172.2	1559.8	1124.0	897.6	813.9	767.4	768.6
4556.0	12.5°	4134.9	3305.2	2304.6	1472.6	949.7	717.6	647.5	627.1	613.5	614.6
4629.6	15°	4114.6	3004.1	1764.7	981.4	679.2	607.8	590.9	581.8	572.8	571.6
4711.1	17.5°	4080.6	2669.1	1291.5	716.5	594.3	569.4	554.6	544.5	533.1	530.9
4781.3	20°	4029.7	2288.8	944.0	605.6	556.9	537.7	517.3	503.7	490.1	487.9
4825.4	22.5°	3935.7	1886.9	725.6	560.3	529.7	508.2	483.3	467.5	453.9	451.6
4803.9	25°	3761.4	1510.0	611.2	532.0	506.0	479.9	452.8	431.3	418.8	416.6
4757.5	27.5°	3540.7	1186.3	554.6	506.0	475.4	451.6	421.1	400.7	389.4	387.1
4696.4	30°	3280.3	913.5	521.8	476.5	439.2	418.8	391.6	374.7	367.9	367.9
4653.4	32.5°	2999.6	730.1	508.2	447.1	407.5	384.9	363.3	356.6	354.3	353.2
4677.1	35°	2735.9	633.9	501.4	423.3	379.2	357.7	348.6	349.8	354.3	354.3
4750.7	37.5°	2501.6	603.3	498.0	406.4	354.3	335.1	340.7	350.9	346.4	346.4
4879.8	40°	2289.9	606.7	495.8	393.9	333.9	322.6	333.9	326.0	314.7	313.5
5037.1	42.5°	2128.0	635.0	491.3	383.7	321.5	313.5	309.0	296.6	295.4	297.7
5200.1	45°	2010.3	659.9	490.1	379.2	307.9	293.2	287.5	275.1	297.7	303.4
5266.9	47.5°	1871.1	659.9	490.1	363.3	285.2	279.6	270.5	256.9	279.6	285.2
5203.5	50°	1691.1	618.0	470.9	345.2	267.1	263.7	247.9	230.9	226.4	229.8
5055.2	52.5°	1463.6	542.2	422.2	320.3	249.0	242.2	223.0	210.5	207.1	207.1
4789.2	55°	1204.4	453.9	356.6	284.1	229.8	217.3	203.7	198.1	194.7	192.4
4416.8	57.5°	979.1	372.4	286.4	252.4	211.7	195.8	191.3	184.5	178.8	175.4
4105.5	60°	803.7	293.2	236.6	224.1	193.6	178.8	177.7	168.7	153.9	151.7
3848.6	62.5°	620.3	215.1	199.2	194.7	175.4	163.0	160.7	142.6	120.0	115.5
3484.1	65°	438.1	167.5	160.7	170.9	156.2	144.9	139.2	112.1	88.3	84.9
2915.9	67.5°	307.9	140.4	126.8	149.4	135.8	121.1	117.7	95.1	73.6	71.3
2205.0	70°	219.6	114.3	104.1	127.9	108.7	106.4	99.6	79.2	60.0	57.7
1091.2	72.5°	155.1	87.2	80.4	110.9	74.7	91.7	81.5	61.1	45.3	43.0
371.3	75°	114.3	62.3	56.6	64.5	54.3	69.0	57.7	40.7	28.3	27.2
167.5	77.5°	83.8	39.6	34.0	31.7	31.7	43.0	31.7	17.0	12.5	11.3
84.9	80°	58.9	18.1	15.8	13.6	12.5	10.2	4.5	2.3	1.1	1.1
29.4	82.5°	35.1	7.9	7.9	5.7	3.4	0.0	0.0	0.0	0.0	0.0
11.3	85°	7.9	3.4	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
4.5	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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