

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: P948108

Luminaire Tested: **GALN-SB3B-735-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948108
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-SB3B-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 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: 14405 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

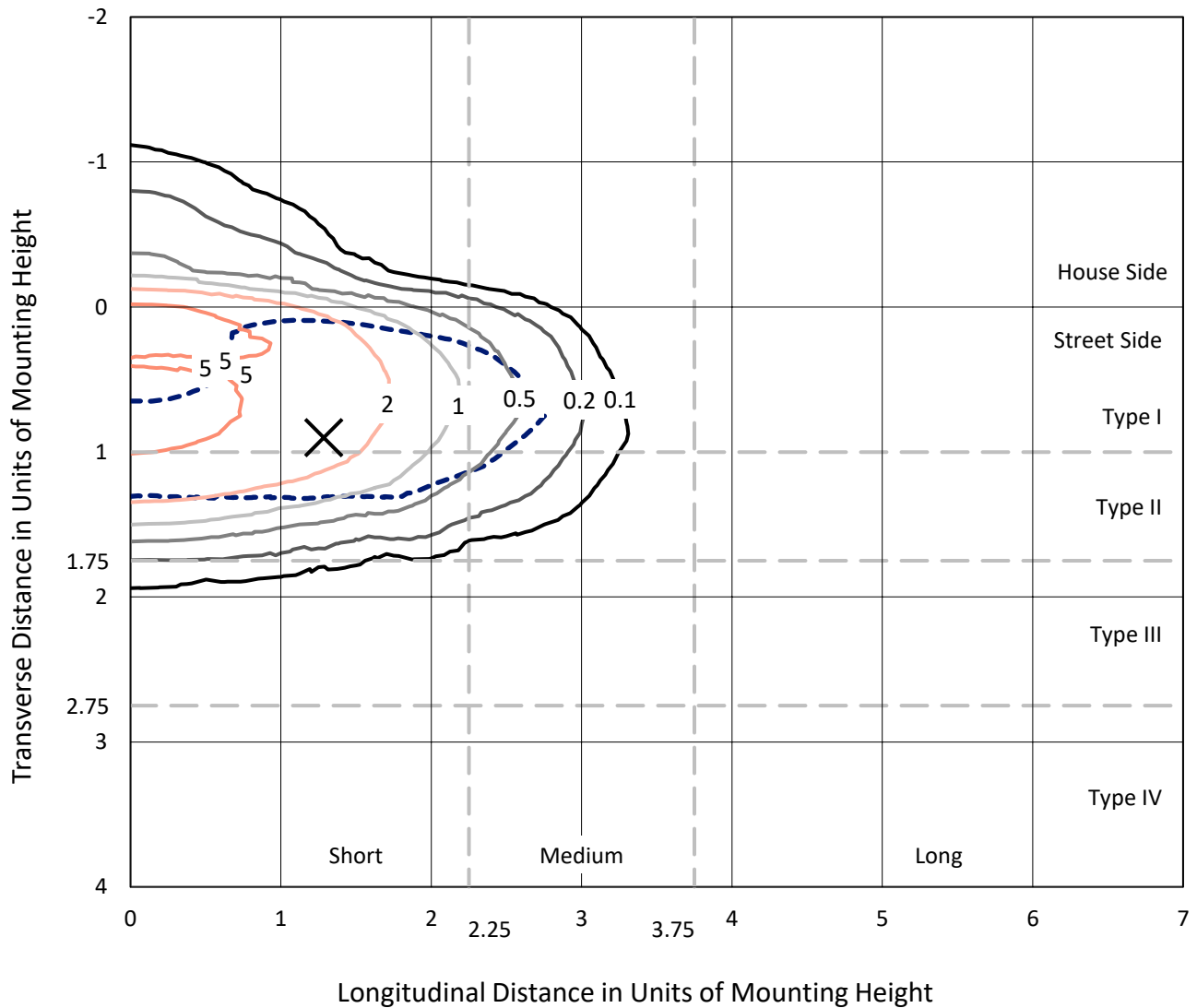
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

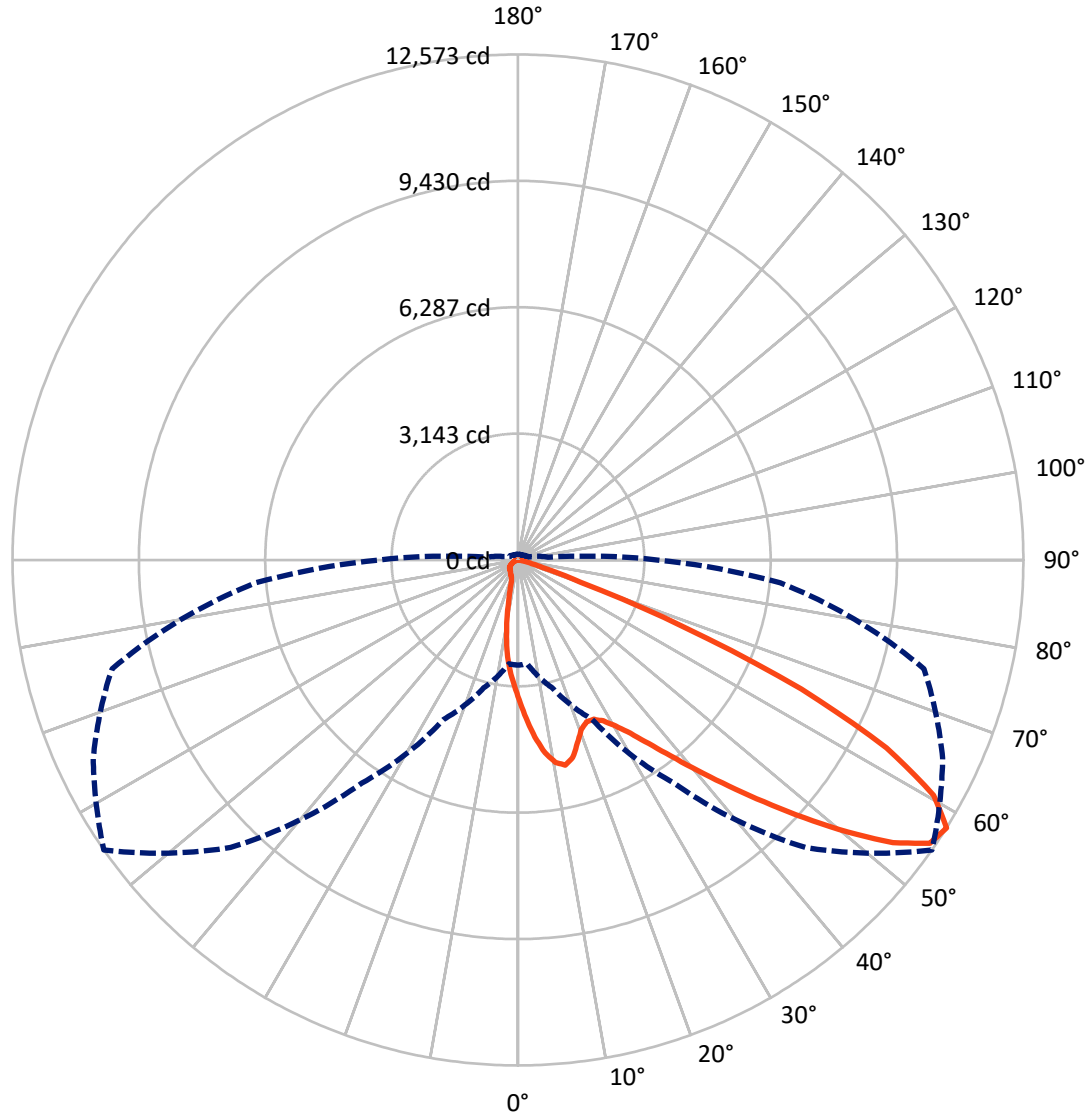
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	1125.0	0.0	1125.0
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	13280.0	0.0	13280.0
	% Fixture	92.2	0.0	92.2
Total	Lumens	14405.0	0.0	14405.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.0	2.2
10°-20°	780.2	5.4
20°-30°	1248.2	8.7
30°-40°	2112.7	14.7
40°-50°	3468.7	24.1
50°-60°	3812.3	26.5
60°-70°	2186.7	15.2
70°-80°	446.8	3.1
80°-90°	26.4	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°	14405.0	100.0
0°-180°	14405.0	100.0

Coefficient of Utilization



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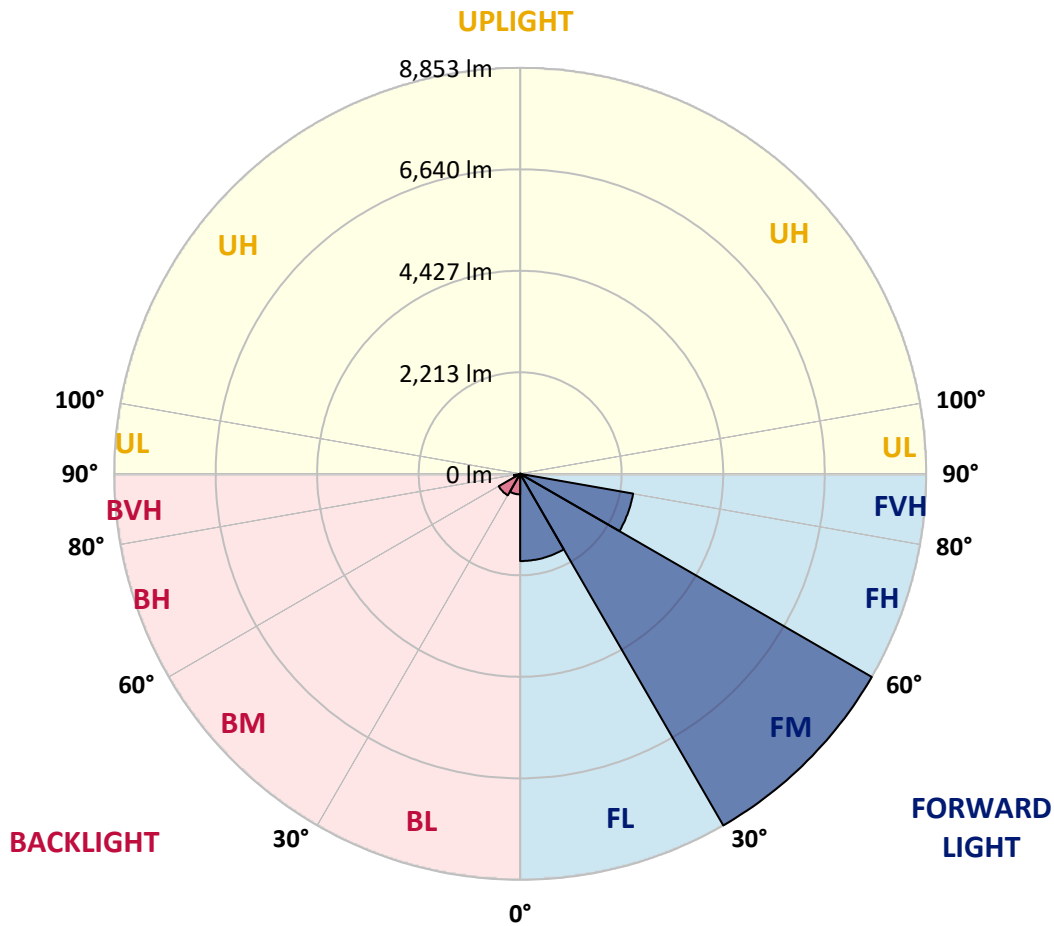
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1902.3	13.2			
FM (30°-60°)	8853.4	61.5			
FH (60°-80°)	2499.8	17.4			G2/5000
FVH (80°-90°)	24.6	0.2			G1/100
BL (0°-30°)	449.1	3.1	B1/500		
BM (30°-60°)	540.3	3.8	B1/1000		
BH (60°-80°)	133.8	0.9	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3471.2	3471.2	3471.2	3471.2	3471.2	3471.2	3471.2	3471.2	3471.2	3471.2
2.5°	4307.1	4252.9	4244.9	4234.2	4131.2	4053.9	3942.0	3819.4	3681.8	3541.4
5°	4975.9	4933.3	4925.3	4875.6	4758.3	4626.9	4427.9	4176.5	3919.8	3617.8
7.5°	5105.6	5097.6	5134.0	5132.3	5116.3	5012.3	4844.5	4545.1	4159.6	3712.0
10°	4527.4	4547.8	4656.2	4751.2	5007.9	5157.1	5120.7	4873.8	4406.6	3819.4
12.5°	4000.6	3976.7	4053.9	4161.4	4459.9	4904.0	5235.3	5148.3	4689.0	3941.1
15°	3670.2	3660.4	3704.0	3753.7	3981.1	4428.8	5102.1	5371.2	4960.8	4085.0
17.5°	3564.5	3556.5	3569.8	3582.3	3729.7	4076.1	4785.0	5508.0	5221.1	4249.4
20°	3650.7	3640.0	3638.2	3628.5	3689.8	3926.0	4498.1	5517.8	5454.7	4398.6
22.5°	3902.0	3889.6	3846.1	3807.0	3812.3	3946.5	4370.2	5420.1	5630.6	4538.0
25°	4357.7	4337.3	4246.7	4115.2	4031.7	4088.6	4389.7	5291.3	5798.4	4647.3
27.5°	4928.0	4901.3	4785.0	4589.5	4398.6	4329.3	4530.9	5202.4	5937.9	4730.8
30°	5486.7	5452.0	5337.4	5185.6	4906.6	4688.1	4785.8	5241.5	6104.0	4817.8
32.5°	6089.8	6056.9	5905.0	5716.7	5485.8	5191.8	5134.9	5432.5	6307.4	4939.5
35°	6852.8	6801.3	6585.4	6328.7	6083.6	5786.0	5607.5	5762.0	6578.3	5125.2
37.5°	7721.5	7652.2	7419.5	7065.1	6745.3	6412.2	6183.1	6215.0	6975.4	5373.9
40°	8540.4	8477.4	8262.4	7928.4	7527.0	7122.8	6878.5	6807.5	7523.4	5676.8
42.5°	9031.6	8974.8	8884.2	8743.0	8404.5	7992.4	7684.2	7530.5	8171.8	6039.2
45°	9059.2	9009.4	9131.1	9295.5	9228.8	8954.4	8578.6	8297.1	8822.9	6379.4
47.5°	8618.6	8584.9	8954.4	9528.2	9814.2	9929.7	9583.2	8999.7	9360.3	6623.6
50°	7417.7	7405.3	8165.6	9219.1	10037.1	10784.1	10642.9	9653.4	9776.9	6749.8
52.5°	6431.8	6386.5	6829.7	8229.6	9712.9	11233.6	11678.6	10294.7	10068.2	6773.7
55°	4878.2	4838.3	5394.3	6573.9	8667.5	11073.7	12436.3	10956.5	10277.0	6712.4
57.5°	2616.8	2591.9	3294.5	4375.5	6775.5	10114.4	12573.1	11656.4	10452.8	6549.9
60°	1018.8	1014.4	1277.3	2122.9	4117.9	8228.7	11882.9	12076.5	10563.0	6350.0
62.5°	616.4	629.8	672.4	953.1	1819.1	5111.8	10292.1	11598.7	10636.7	6167.1
65°	509.9	510.7	516.1	654.6	871.4	2138.9	7748.1	10026.5	10454.6	5841.1
67.5°	437.0	445.0	465.4	519.6	614.7	938.0	4460.8	7766.8	9347.0	5082.5
70°	344.6	355.3	381.1	427.2	474.3	587.1	1648.6	5167.8	7140.6	3831.0
72.5°	290.5	289.6	302.9	347.3	376.6	413.0	634.2	2895.7	4149.9	1828.9
75°	224.7	233.6	250.5	290.5	308.2	299.3	343.7	1057.9	1486.9	554.3
77.5°	175.9	183.0	198.1	237.2	254.9	212.3	198.1	378.4	477.9	199.0
80°	79.1	85.3	135.0	175.0	207.8	146.6	107.5	193.6	212.3	90.6
82.5°	14.2	24.0	79.1	92.4	106.6	95.0	56.0	100.4	103.9	36.4
85°	0.9	1.8	27.5	33.8	42.6	31.1	16.9	40.0	34.6	12.4
87.5°	0.0	0.0	0.0	0.9	0.9	4.4	5.3	7.1	5.3	4.4
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°
3471.2	0°	3471.2	3471.2	3471.2	3471.2	3471.2	3471.2	3471.2	3471.2	3471.2	3471.2
3479.2	2.5°	3415.3	3289.2	3166.6	3066.2	3007.6	2908.1	2842.4	2831.7	2804.2	2828.2
3488.1	5°	3349.6	3123.9	2895.7	2691.4	2523.5	2306.8	2145.1	2076.7	2017.2	2037.6
3511.2	7.5°	3318.5	2962.3	2607.0	2257.9	1899.1	1552.6	1295.1	1187.6	1105.9	1117.4
3537.0	10°	3276.7	2794.4	2237.5	1704.5	1224.0	882.0	704.4	638.6	602.2	603.1
3575.2	12.5°	3244.7	2593.7	1808.5	1155.6	745.2	563.1	508.1	492.1	481.4	482.3
3632.9	15°	3228.8	2357.4	1384.8	770.1	532.9	477.0	463.7	456.6	449.5	448.6
3696.9	17.5°	3202.1	2094.5	1013.5	562.3	466.3	446.8	435.2	427.2	418.4	416.6
3751.9	20°	3162.1	1796.0	740.8	475.2	437.0	421.9	405.9	395.3	384.6	382.8
3786.6	22.5°	3088.4	1480.7	569.4	439.7	415.7	398.8	379.3	366.8	356.2	354.4
3769.7	25°	2951.6	1184.9	479.7	417.5	397.0	376.6	355.3	338.4	328.6	326.9
3733.3	27.5°	2778.4	930.9	435.2	397.0	373.1	354.4	330.4	314.4	305.6	303.8
3685.3	30°	2574.1	716.8	409.5	373.9	344.6	328.6	307.3	294.0	288.7	288.7
3651.6	32.5°	2353.8	572.9	398.8	350.9	319.8	302.0	285.1	279.8	278.0	277.1
3670.2	35°	2146.9	497.4	393.5	332.2	297.6	280.7	273.6	274.5	278.0	278.0
3728.0	37.5°	1963.0	473.4	390.8	318.9	278.0	262.9	267.4	275.4	271.8	271.8
3829.2	40°	1796.9	476.1	389.1	309.1	262.0	253.1	262.0	255.8	246.9	246.0
3952.7	42.5°	1669.9	498.3	385.5	301.1	252.3	246.0	242.5	232.7	231.8	233.6
4080.6	45°	1577.5	517.8	384.6	297.6	241.6	230.1	225.6	215.8	233.6	238.0
4133.0	47.5°	1468.3	517.8	384.6	285.1	223.8	219.4	212.3	201.6	219.4	223.8
4083.2	50°	1327.0	485.0	369.5	270.9	209.6	207.0	194.5	181.2	177.6	180.3
3966.9	52.5°	1148.5	425.5	331.3	251.4	195.4	190.1	175.0	165.2	162.5	162.5
3758.2	55°	945.1	356.2	279.8	222.9	180.3	170.5	159.9	155.4	152.8	151.0
3465.9	57.5°	768.3	292.2	224.7	198.1	166.1	153.7	150.1	144.8	140.3	137.7
3221.7	60°	630.7	230.1	185.6	175.9	151.9	140.3	139.5	132.3	120.8	119.0
3020.0	62.5°	486.8	168.8	156.3	152.8	137.7	127.9	126.1	111.9	94.2	90.6
2734.0	65°	343.7	131.5	126.1	134.1	122.6	113.7	109.3	87.9	69.3	66.6
2288.1	67.5°	241.6	110.1	99.5	117.2	106.6	95.0	92.4	74.6	57.7	56.0
1730.3	70°	172.3	89.7	81.7	100.4	85.3	83.5	78.2	62.2	47.1	45.3
856.3	72.5°	121.7	68.4	63.1	87.0	58.6	71.9	64.0	48.0	35.5	33.8
291.3	75°	89.7	48.9	44.4	50.6	42.6	54.2	45.3	32.0	22.2	21.3
131.5	77.5°	65.7	31.1	26.6	24.9	24.9	33.8	24.9	13.3	9.8	8.9
66.6	80°	46.2	14.2	12.4	10.7	9.8	8.0	3.6	1.8	0.9	0.9
23.1	82.5°	27.5	6.2	6.2	4.4	2.7	0.0	0.0	0.0	0.0	0.0
8.9	85°	6.2	2.7	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
3.6	87.5°	0.9	0.9	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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