

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: P946680

Luminaire Tested: **GALN-SB2B-735-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946680
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-SB2B-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 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: 9601 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

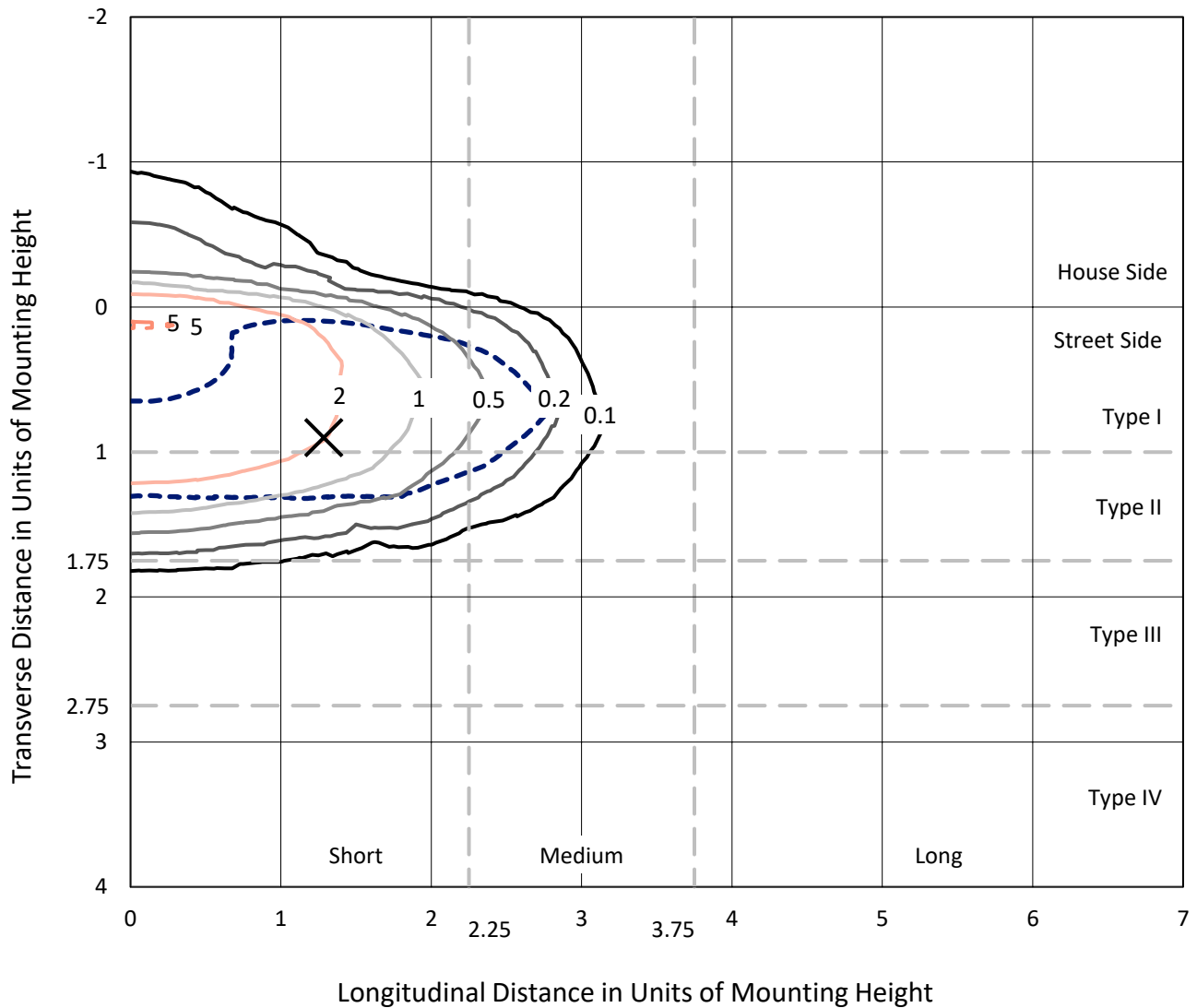
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

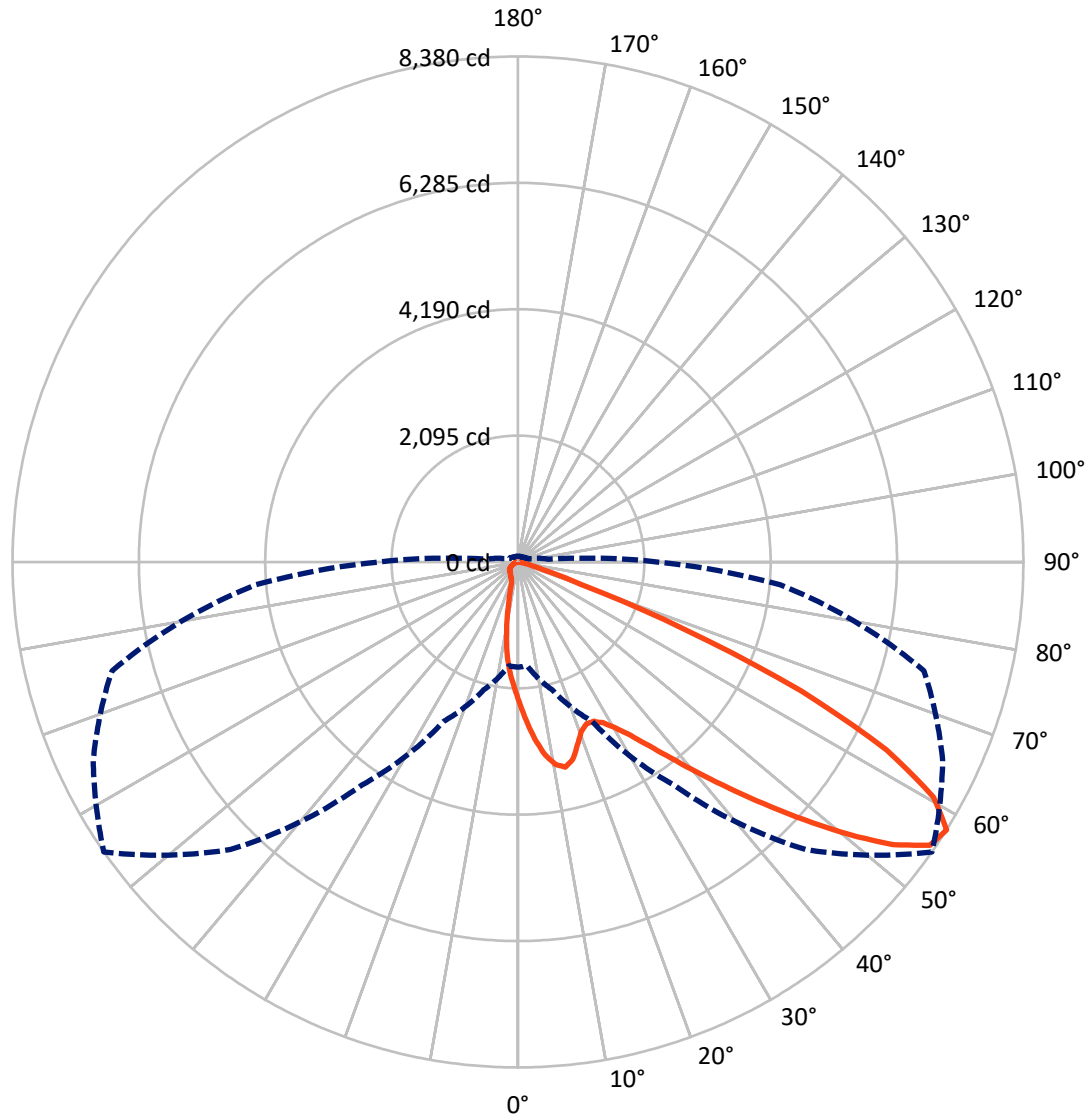
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	749.8	0.0	749.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	8851.2	0.0	8851.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	9601.0	0.0	9601.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.3	2.2
10°-20°	520.0	5.4
20°-30°	832.0	8.7
30°-40°	1408.1	14.7
40°-50°	2311.9	24.1
50°-60°	2540.9	26.5
60°-70°	1457.5	15.2
70°-80°	297.8	3.1
80°-90°	17.6	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°	9601.0	100.0
0°-180°	9601.0	100.0

Coefficient of Utilization



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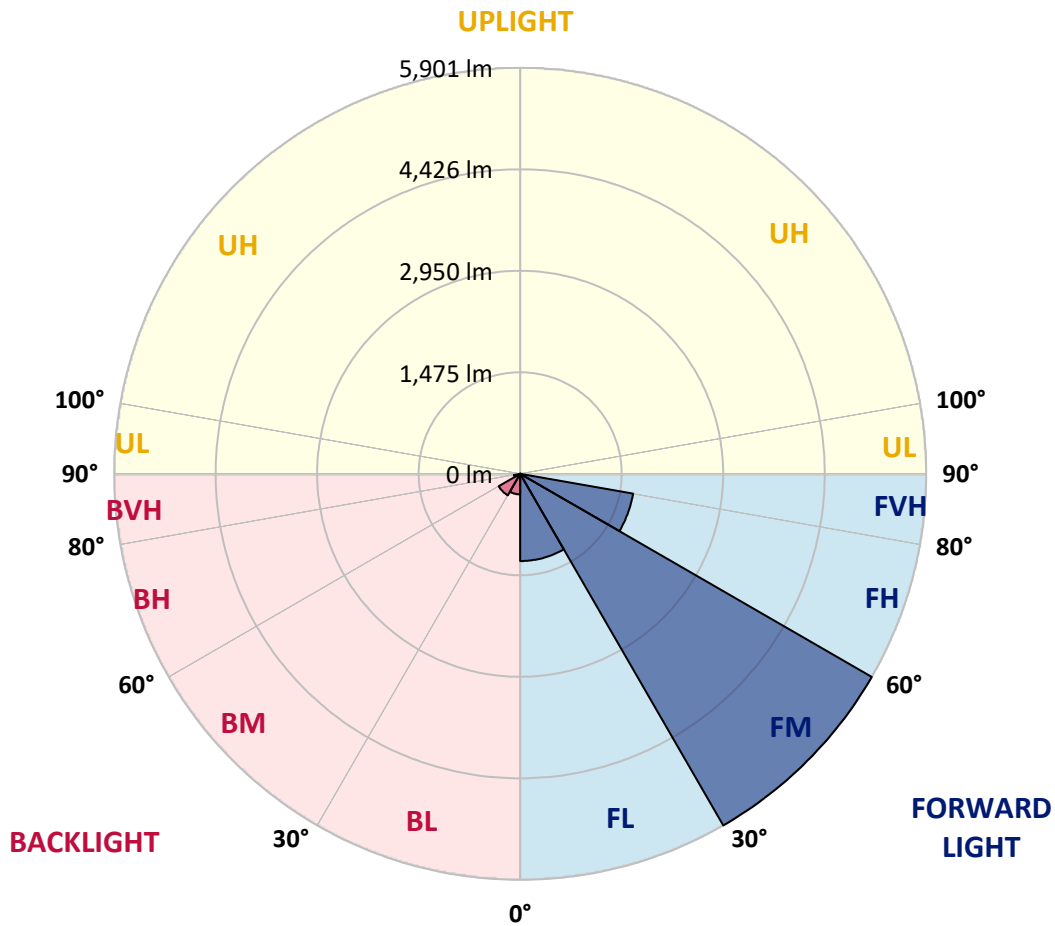
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1267.9	13.2			
FM (30°-60°)	5900.8	61.5			
FH (60°-80°)	1666.1	17.4			G1/1800
FVH (80°-90°)	16.4	0.2			G1/100
BL (0°-30°)	299.3	3.1	B1/500		
BM (30°-60°)	360.1	3.8	B1/1000		
BH (60°-80°)	89.2	0.9	B0/110		G0/110
BVH (80°-90°)	1.2	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6
2.5°	2870.7	2834.6	2829.3	2822.1	2753.5	2702.0	2627.4	2545.7	2453.9	2360.4
5°	3316.5	3288.1	3282.7	3249.6	3171.4	3083.8	2951.2	2783.7	2612.6	2411.3
7.5°	3402.9	3397.6	3421.9	3420.7	3410.0	3340.8	3228.9	3029.4	2772.4	2474.0
10°	3017.5	3031.1	3103.4	3166.7	3337.8	3437.3	3413.0	3248.4	2937.0	2545.7
12.5°	2666.4	2650.5	2702.0	2773.6	2972.5	3268.5	3489.4	3431.3	3125.3	2626.8
15°	2446.2	2439.7	2468.7	2501.9	2653.4	2951.8	3400.5	3579.9	3306.4	2722.7
17.5°	2375.8	2370.4	2379.3	2387.6	2485.9	2716.8	3189.2	3671.1	3479.9	2832.2
20°	2433.2	2426.1	2424.9	2418.4	2459.2	2616.7	2998.0	3677.6	3635.6	2931.7
22.5°	2600.7	2592.4	2563.4	2537.4	2540.9	2630.3	2912.7	3612.5	3752.8	3024.6
25°	2904.4	2890.8	2830.4	2742.8	2687.2	2725.1	2925.8	3526.6	3864.7	3097.4
27.5°	3284.5	3266.8	3189.2	3059.0	2931.7	2885.5	3019.9	3467.4	3957.6	3153.1
30°	3656.9	3633.8	3557.4	3456.2	3270.3	3124.7	3189.8	3493.5	4068.3	3211.1
32.5°	4058.9	4037.0	3935.7	3810.2	3656.3	3460.3	3422.5	3620.8	4203.9	3292.2
35°	4567.4	4533.1	4389.2	4218.1	4054.7	3856.4	3737.4	3840.4	4384.5	3415.9
37.5°	5146.4	5100.2	4945.1	4708.9	4495.8	4273.8	4121.0	4142.3	4649.1	3581.7
40°	5692.2	5650.2	5506.9	5284.3	5016.8	4747.4	4584.6	4537.2	5014.4	3783.6
42.5°	6019.6	5981.7	5921.4	5827.2	5601.7	5327.0	5121.5	5019.1	5446.6	4025.1
45°	6038.0	6004.8	6085.9	6195.5	6151.1	5968.1	5717.7	5530.0	5880.5	4251.9
47.5°	5744.3	5721.8	5968.1	6350.6	6541.2	6618.2	6387.3	5998.3	6238.7	4414.7
50°	4943.9	4935.6	5442.4	6144.5	6689.8	7187.7	7093.6	6434.0	6516.3	4498.7
52.5°	4286.8	4256.6	4552.0	5485.0	6473.7	7487.2	7783.8	6861.5	6710.5	4514.7
55°	3251.4	3224.7	3595.3	4381.5	5776.9	7380.7	8288.8	7302.5	6849.6	4473.9
57.5°	1744.1	1727.5	2195.8	2916.3	4515.9	6741.3	8380.0	7769.0	6966.9	4365.5
60°	679.0	676.1	851.3	1414.9	2744.6	5484.5	7920.0	8049.1	7040.3	4232.3
62.5°	410.9	419.7	448.2	635.2	1212.5	3407.1	6859.7	7730.6	7089.4	4110.4
65°	339.8	340.4	344.0	436.3	580.8	1425.6	5164.2	6682.7	6968.0	3893.1
67.5°	291.3	296.6	310.2	346.3	409.7	625.2	2973.1	5176.6	6229.8	3387.5
70°	229.7	236.8	254.0	284.8	316.1	391.3	1098.8	3444.4	4759.2	2553.4
72.5°	193.6	193.0	201.9	231.5	251.0	275.3	422.7	1930.0	2765.9	1219.0
75°	149.8	155.7	166.9	193.6	205.4	199.5	229.1	705.1	991.0	369.4
77.5°	117.2	122.0	132.0	158.1	169.9	141.5	132.0	252.2	318.5	132.6
80°	52.7	56.8	90.0	116.6	138.5	97.7	71.6	129.1	141.5	60.4
82.5°	9.5	16.0	52.7	61.6	71.0	63.3	37.3	66.9	69.3	24.3
85°	0.6	1.2	18.4	22.5	28.4	20.7	11.2	26.6	23.1	8.3
87.5°	0.0	0.0	0.0	0.6	0.6	3.0	3.6	4.7	3.6	3.0
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°
2313.6	0°	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6
2318.9	2.5°	2276.3	2192.2	2110.5	2043.6	2004.6	1938.3	1894.5	1887.4	1869.0	1885.0
2324.9	5°	2232.5	2082.1	1930.0	1793.8	1681.9	1537.5	1429.7	1384.1	1344.5	1358.1
2340.2	7.5°	2211.8	1974.4	1737.6	1504.9	1265.7	1034.8	863.2	791.5	737.1	744.8
2357.4	10°	2184.0	1862.5	1491.3	1136.1	815.8	587.9	469.5	425.7	401.4	402.0
2382.9	12.5°	2162.6	1728.7	1205.3	770.2	496.7	375.3	338.6	328.0	320.9	321.5
2421.4	15°	2152.0	1571.2	923.0	513.3	355.2	317.9	309.0	304.3	299.6	299.0
2464.0	17.5°	2134.2	1396.0	675.5	374.7	310.8	297.8	290.1	284.8	278.8	277.7
2500.7	20°	2107.6	1197.1	493.7	316.7	291.3	281.2	270.6	263.4	256.3	255.2
2523.8	22.5°	2058.4	986.9	379.5	293.0	277.1	265.8	252.8	244.5	237.4	236.2
2512.5	25°	1967.3	789.8	319.7	278.2	264.6	251.0	236.8	225.6	219.0	217.9
2488.2	27.5°	1851.8	620.4	290.1	264.6	248.6	236.2	220.2	209.6	203.7	202.5
2456.3	30°	1715.7	477.8	272.9	249.2	229.7	219.0	204.8	196.0	192.4	192.4
2433.8	32.5°	1568.8	381.9	265.8	233.8	213.1	201.3	190.0	186.5	185.3	184.7
2446.2	35°	1430.9	331.5	262.3	221.4	198.3	187.1	182.3	182.9	185.3	185.3
2484.7	37.5°	1308.4	315.5	260.5	212.5	185.3	175.2	178.2	183.5	181.2	181.2
2552.2	40°	1197.7	317.3	259.3	206.0	174.6	168.7	174.6	170.5	164.6	164.0
2634.5	42.5°	1113.0	332.1	256.9	200.7	168.1	164.0	161.6	155.1	154.5	155.7
2719.7	45°	1051.4	345.1	256.3	198.3	161.0	153.3	150.4	143.9	155.7	158.7
2754.7	47.5°	978.6	345.1	256.3	190.0	149.2	146.2	141.5	134.4	146.2	149.2
2721.5	50°	884.5	323.2	246.3	180.6	139.7	137.9	129.7	120.8	118.4	120.2
2644.0	52.5°	765.5	283.6	220.8	167.5	130.2	126.7	116.6	110.1	108.3	108.3
2504.8	55°	629.9	237.4	186.5	148.6	120.2	113.7	106.6	103.6	101.8	100.6
2310.1	57.5°	512.1	194.8	149.8	132.0	110.7	102.4	100.1	96.5	93.5	91.8
2147.2	60°	420.3	153.3	123.7	117.2	101.2	93.5	92.9	88.2	80.5	79.3
2012.9	62.5°	324.4	112.5	104.2	101.8	91.8	85.3	84.1	74.6	62.8	60.4
1822.2	65°	229.1	87.6	84.1	89.4	81.7	75.8	72.8	58.6	46.2	44.4
1525.0	67.5°	161.0	73.4	66.3	78.1	71.0	63.3	61.6	49.7	38.5	37.3
1153.3	70°	114.9	59.8	54.5	66.9	56.8	55.6	52.1	41.4	31.4	30.2
570.7	72.5°	81.1	45.6	42.0	58.0	39.1	48.0	42.6	32.0	23.7	22.5
194.2	75°	59.8	32.6	29.6	33.7	28.4	36.1	30.2	21.3	14.8	14.2
87.6	77.5°	43.8	20.7	17.8	16.6	16.6	22.5	16.6	8.9	6.5	5.9
44.4	80°	30.8	9.5	8.3	7.1	6.5	5.3	2.4	1.2	0.6	0.6
15.4	82.5°	18.4	4.1	4.1	3.0	1.8	0.0	0.0	0.0	0.0	0.0
5.9	85°	4.1	1.8	1.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0
2.4	87.5°	0.6	0.6	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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