

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: P947289

Luminaire Tested: **GALN-SB2C-940-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947289
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-SB2C-940-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 615mA 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: 9253 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

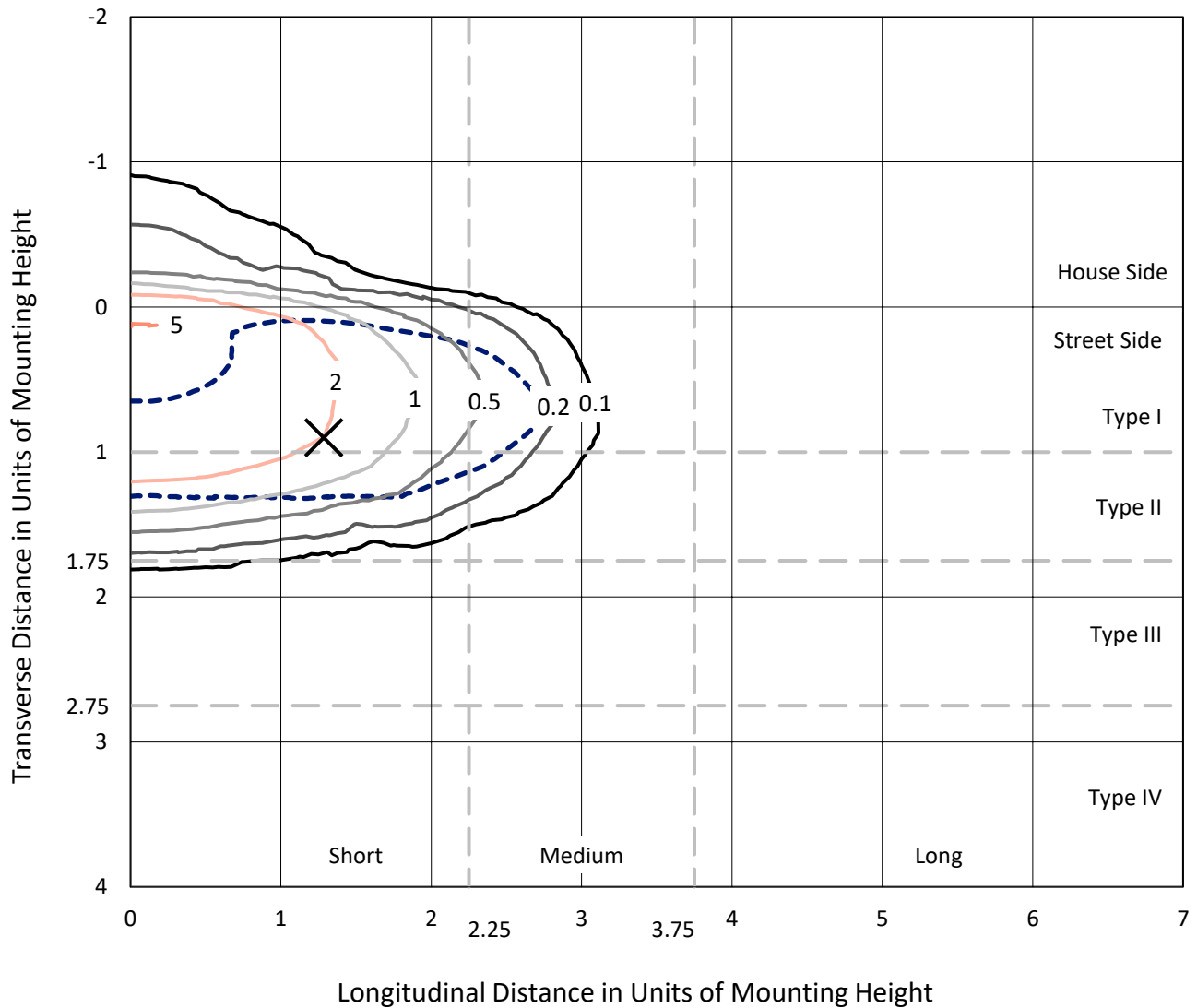
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

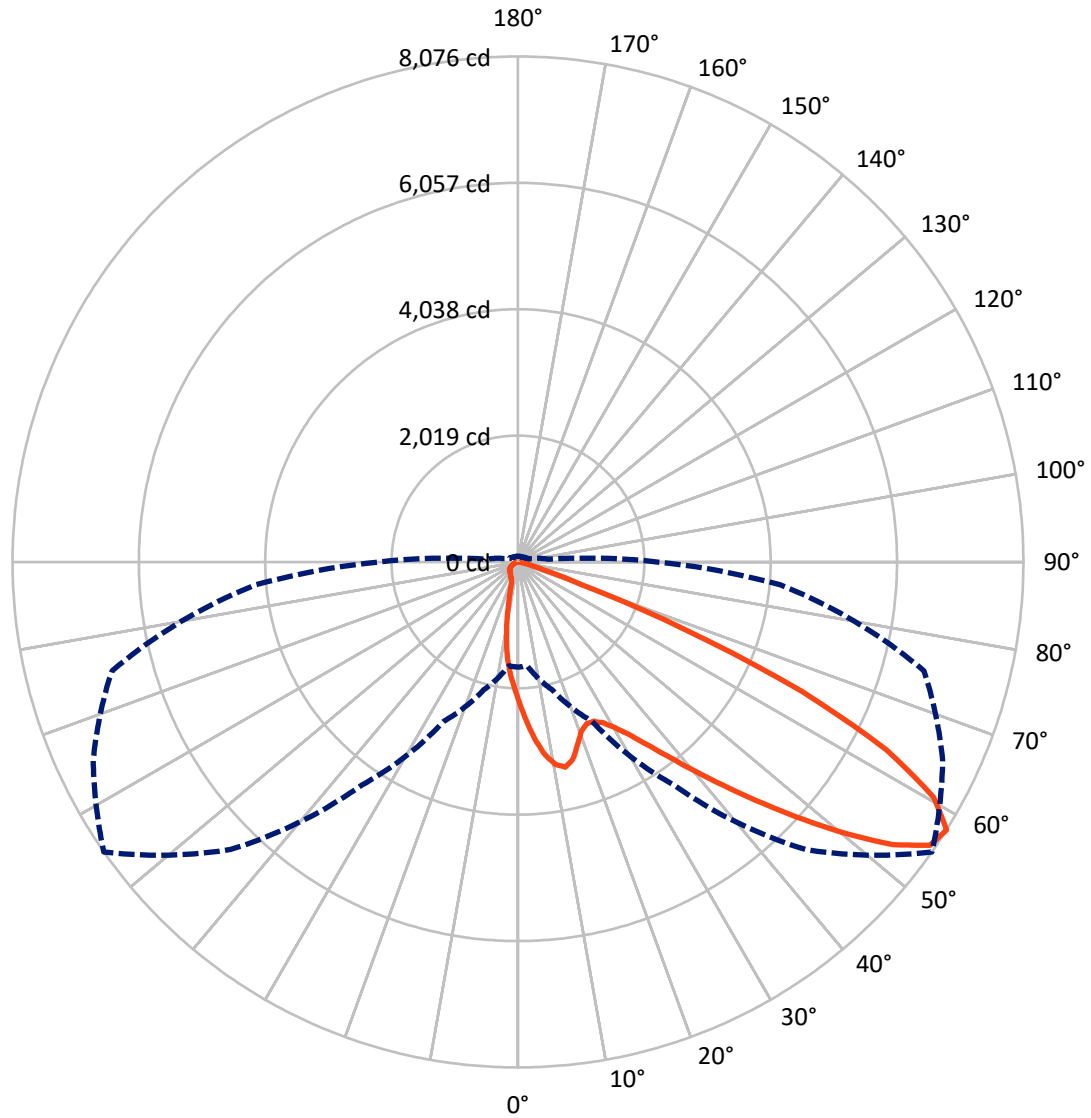
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	722.6	0.0	722.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	8530.4	0.0	8530.4
	% Fixture	92.2	0.0	92.2
Total	Lumens	9253.0	0.0	9253.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.5	2.2
10°-20°	501.1	5.4
20°-30°	801.8	8.7
30°-40°	1357.1	14.7
40°-50°	2228.1	24.1
50°-60°	2448.8	26.5
60°-70°	1404.6	15.2
70°-80°	287.0	3.1
80°-90°	16.9	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°	9253.0	100.0
0°-180°	9253.0	100.0

Coefficient of Utilization



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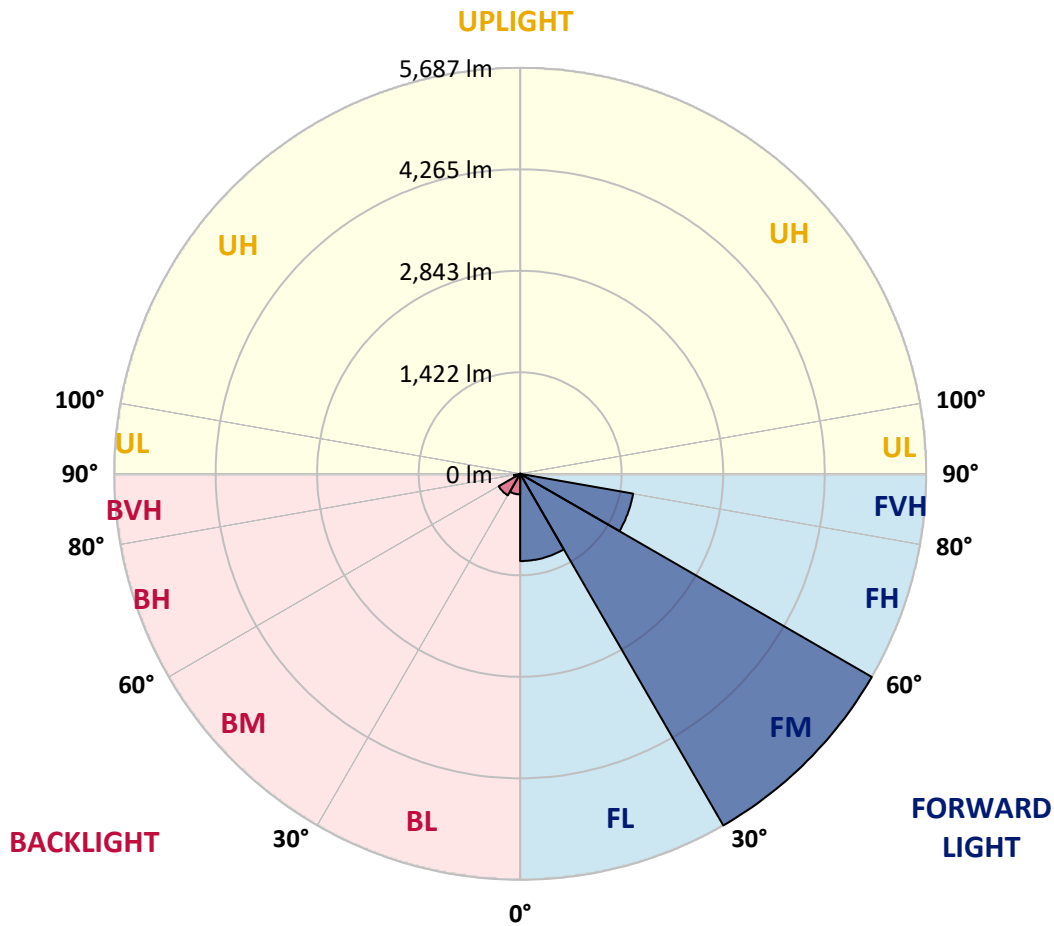
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1221.9	13.2			
FM (30°-60°)	5687.0	61.5			
FH (60°-80°)	1605.7	17.4			G1/1800
FVH (80°-90°)	15.8	0.2			G1/100
BL (0°-30°)	288.5	3.1	B1/500		
BM (30°-60°)	347.0	3.8	B1/1000		
BH (60°-80°)	85.9	0.9	B0/110		G0/110
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2229.7	2229.7	2229.7	2229.7	2229.7	2229.7	2229.7	2229.7	2229.7	2229.7
2.5°	2766.6	2731.8	2726.7	2719.9	2653.7	2604.0	2532.1	2453.4	2365.0	2274.8
5°	3196.3	3168.9	3163.8	3131.8	3056.5	2972.0	2844.2	2682.8	2517.9	2323.9
7.5°	3279.6	3274.4	3297.8	3296.7	3286.4	3219.7	3111.8	2919.6	2671.9	2384.4
10°	2908.1	2921.3	2990.9	3051.9	3216.8	3312.7	3289.3	3130.7	2830.5	2453.4
12.5°	2569.8	2554.4	2604.0	2673.1	2864.8	3150.1	3362.9	3307.0	3012.0	2531.6
15°	2357.6	2351.3	2379.2	2411.2	2557.2	2844.8	3277.3	3450.2	3186.6	2624.0
17.5°	2289.7	2284.5	2293.1	2301.1	2395.8	2618.3	3073.6	3538.0	3353.7	2729.6
20°	2345.0	2338.2	2337.0	2330.7	2370.1	2521.9	2889.3	3544.3	3503.8	2825.4
22.5°	2506.5	2498.5	2470.5	2445.4	2448.8	2535.0	2807.2	3481.6	3616.8	2915.0
25°	2799.2	2786.0	2727.8	2643.4	2589.8	2626.3	2819.7	3398.8	3724.6	2985.2
27.5°	3165.5	3148.3	3073.6	2948.1	2825.4	2780.9	2910.4	3341.8	3814.2	3038.8
30°	3524.3	3502.1	3428.5	3330.9	3151.8	3011.4	3074.2	3366.9	3920.9	3094.7
32.5°	3911.8	3890.6	3793.1	3672.1	3523.8	3334.9	3298.4	3489.5	4051.5	3172.9
35°	4401.9	4368.8	4230.1	4065.2	3907.8	3716.6	3601.9	3701.2	4225.6	3292.1
37.5°	4959.9	4915.4	4765.9	4538.2	4332.8	4118.9	3971.7	3992.2	4480.6	3451.9
40°	5485.9	5445.4	5307.3	5092.8	4834.9	4575.3	4418.4	4372.8	4832.6	3646.4
42.5°	5801.4	5764.9	5706.7	5616.0	5398.6	5133.9	4935.9	4837.2	5249.1	3879.2
45°	5819.1	5787.2	5865.3	5970.9	5928.1	5751.8	5510.5	5329.6	5667.4	4097.8
47.5°	5536.1	5514.5	5751.8	6120.4	6304.1	6378.3	6155.8	5780.9	6012.6	4254.7
50°	4764.7	4756.8	5245.1	5921.8	6447.3	6927.2	6836.4	6200.8	6280.1	4335.7
52.5°	4131.4	4102.3	4387.0	5286.2	6239.1	7215.9	7501.7	6612.8	6467.3	4351.1
55°	3133.5	3107.8	3465.0	4222.7	5567.5	7113.2	7988.4	7037.8	6601.4	4311.7
57.5°	1680.9	1664.9	2116.2	2810.6	4352.2	6497.0	8076.3	7487.4	6714.3	4207.3
60°	654.4	651.6	820.5	1363.6	2645.1	5285.7	7632.9	7757.3	6785.1	4078.9
62.5°	396.0	404.5	431.9	612.2	1168.5	3283.6	6611.1	7450.4	6832.4	3961.4
65°	327.5	328.1	331.5	420.5	559.7	1373.9	4977.0	6440.5	6715.5	3752.0
67.5°	280.7	285.9	299.0	333.8	394.8	602.5	2865.3	4989.0	6004.0	3264.7
70°	221.4	228.2	244.8	274.4	304.7	377.1	1059.0	3319.5	4586.7	2460.8
72.5°	186.6	186.0	194.6	223.1	241.9	265.3	407.4	1860.0	2665.7	1174.8
75°	144.4	150.1	160.9	186.6	198.0	192.3	220.8	679.5	955.1	356.0
77.5°	113.0	117.5	127.2	152.3	163.8	136.4	127.2	243.1	307.0	127.8
80°	50.8	54.8	86.7	112.4	133.5	94.1	69.0	124.4	136.4	58.2
82.5°	9.1	15.4	50.8	59.3	68.5	61.0	35.9	64.5	66.8	23.4
85°	0.6	1.1	17.7	21.7	27.4	20.0	10.8	25.7	22.3	8.0
87.5°	0.0	0.0	0.0	0.6	0.6	2.9	3.4	4.6	3.4	2.9
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°
2229.7	0°	2229.7	2229.7	2229.7	2229.7	2229.7	2229.7	2229.7	2229.7	2229.7	2229.7
2234.9	2.5°	2193.8	2112.8	2034.0	1969.6	1931.9	1868.0	1825.8	1818.9	1801.3	1816.7
2240.6	5°	2151.6	2006.7	1860.0	1728.8	1621.0	1481.7	1377.9	1334.0	1295.7	1308.9
2255.4	7.5°	2131.6	1902.8	1674.6	1450.4	1219.9	997.3	831.9	762.8	710.3	717.8
2272.0	10°	2104.8	1795.0	1437.2	1094.9	786.2	566.6	452.5	410.2	386.8	387.4
2296.5	12.5°	2084.3	1666.0	1161.7	742.3	478.7	361.7	326.4	316.1	309.2	309.8
2333.6	15°	2074.0	1514.3	889.5	494.7	342.3	306.4	297.8	293.3	288.7	288.1
2374.7	17.5°	2056.9	1345.4	651.0	361.2	299.5	287.0	279.6	274.4	268.7	267.6
2410.0	20°	2031.2	1153.7	475.8	305.2	280.7	271.0	260.7	253.9	247.1	245.9
2432.3	22.5°	1983.8	951.1	365.7	282.4	267.0	256.2	243.6	235.6	228.8	227.7
2421.5	25°	1896.0	761.1	308.1	268.2	255.0	241.9	228.2	217.4	211.1	210.0
2398.1	27.5°	1784.7	597.9	279.6	255.0	239.6	227.7	212.2	202.0	196.3	195.1
2367.2	30°	1653.5	460.4	263.0	240.2	221.4	211.1	197.4	188.9	185.4	185.4
2345.6	32.5°	1512.0	368.0	256.2	225.4	205.4	194.0	183.1	179.7	178.6	178.0
2357.6	35°	1379.0	319.5	252.8	213.4	191.1	180.3	175.7	176.3	178.6	178.6
2394.6	37.5°	1260.9	304.1	251.0	204.8	178.6	168.9	171.7	176.9	174.6	174.6
2459.7	40°	1154.2	305.8	249.9	198.6	168.3	162.6	168.3	164.3	158.6	158.0
2539.0	42.5°	1072.7	320.1	247.6	193.4	162.0	158.0	155.8	149.5	148.9	150.1
2621.1	45°	1013.3	332.6	247.1	191.1	155.2	147.8	144.9	138.6	150.1	152.9
2654.8	47.5°	943.1	332.6	247.1	183.1	143.8	140.9	136.4	129.5	140.9	143.8
2622.9	50°	852.4	311.5	237.4	174.0	134.7	132.9	125.0	116.4	114.1	115.8
2548.1	52.5°	737.7	273.3	212.8	161.5	125.5	122.1	112.4	106.1	104.4	104.4
2414.0	55°	607.1	228.8	179.7	143.2	115.8	109.5	102.7	99.8	98.1	97.0
2226.3	57.5°	493.5	187.7	144.4	127.2	106.7	98.7	96.4	93.0	90.1	88.4
2069.4	60°	405.1	147.8	119.2	113.0	97.6	90.1	89.6	85.0	77.6	76.5
1939.9	62.5°	312.7	108.4	100.4	98.1	88.4	82.2	81.0	71.9	60.5	58.2
1756.2	65°	220.8	84.4	81.0	86.2	78.7	73.0	70.2	56.5	44.5	42.8
1469.8	67.5°	155.2	70.7	63.9	75.3	68.5	61.0	59.3	47.9	37.1	35.9
1111.4	70°	110.7	57.6	52.5	64.5	54.8	53.6	50.2	39.9	30.2	29.1
550.0	72.5°	78.2	43.9	40.5	55.9	37.7	46.2	41.1	30.8	22.8	21.7
187.1	75°	57.6	31.4	28.5	32.5	27.4	34.8	29.1	20.5	14.3	13.7
84.4	77.5°	42.2	20.0	17.1	16.0	16.0	21.7	16.0	8.6	6.3	5.7
42.8	80°	29.7	9.1	8.0	6.8	6.3	5.1	2.3	1.1	0.6	0.6
14.8	82.5°	17.7	4.0	4.0	2.9	1.7	0.0	0.0	0.0	0.0	0.0
5.7	85°	4.0	1.7	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0
2.3	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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