

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: P946933

Luminaire Tested: **GALN-SB2B-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2B-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8299 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

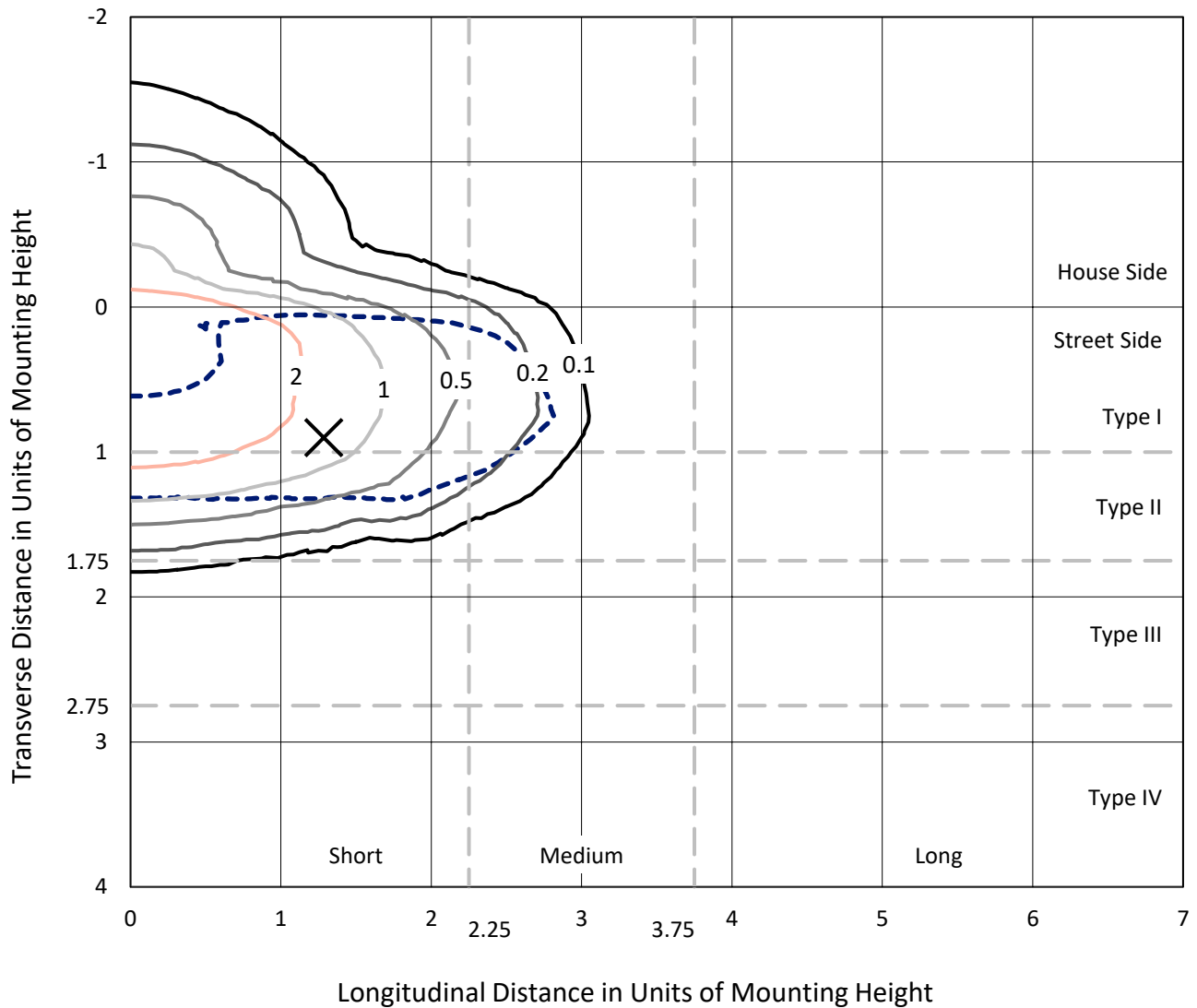
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

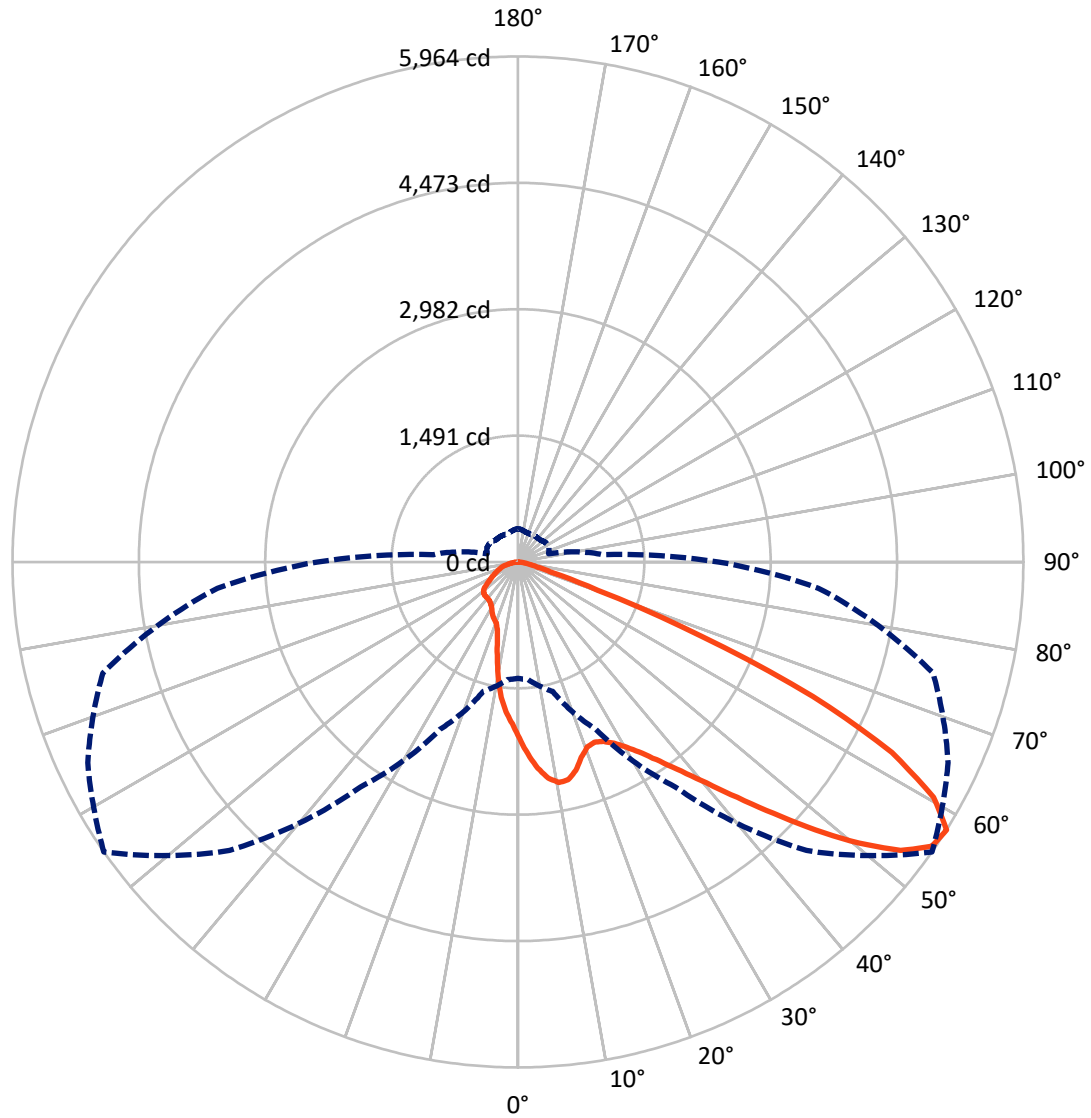
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	1501.7	0.0	1501.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6797.3	0.0	6797.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	8299.0	0.0	8299.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.0	2.3
10°-20°	487.0	5.9
20°-30°	777.2	9.4
30°-40°	1230.5	14.8
40°-50°	1883.4	22.7
50°-60°	2017.3	24.3
60°-70°	1269.1	15.3
70°-80°	375.3	4.5
80°-90°	66.4	0.8
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°	8299.0	100.0
0°-180°	8299.0	100.0

Coefficient of Utilization



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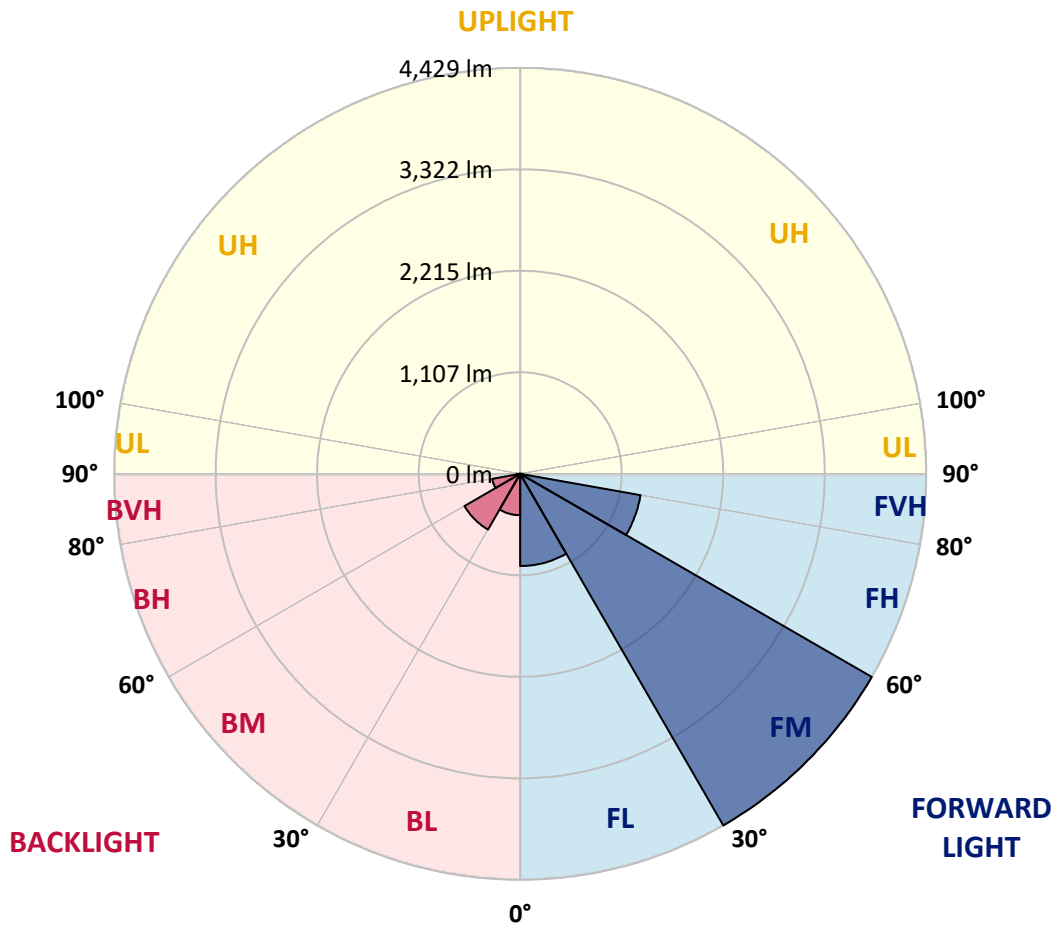
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1005.8	12.1			
FM (30°-60°)	4429.2	53.4			
FH (60°-80°)	1334.2	16.1			G1/1800
FVH (80°-90°)	28.0	0.3			G1/100
BL (0°-30°)	451.3	5.4	B1/500		
BM (30°-60°)	701.9	8.5	B1/1000		
BH (60°-80°)	310.1	3.7	B1/500		G1/500
BVH (80°-90°)	38.3	0.5			G1/100
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°	2079.5	2079.5	2079.5	2079.5	2079.5	2079.5	2079.5	2079.5	2079.5	2079.5
2.5°	2385.8	2384.1	2393.5	2361.3	2339.4	2309.8	2270.8	2221.0	2167.4	2110.8
5°	2600.7	2585.7	2595.6	2571.5	2547.5	2502.9	2445.0	2363.9	2264.8	2152.0
7.5°	2566.8	2556.5	2581.8	2603.3	2621.3	2615.7	2573.3	2488.3	2360.5	2196.6
10°	2293.5	2282.0	2317.6	2391.8	2500.8	2595.6	2647.1	2594.3	2458.3	2245.5
12.5°	2052.4	2046.9	2070.5	2130.5	2251.5	2433.4	2637.6	2687.0	2560.0	2303.4
15°	1949.5	1942.6	1957.6	1988.1	2065.3	2234.8	2551.8	2750.4	2659.9	2370.3
17.5°	1926.7	1919.0	1925.4	1941.3	1991.1	2120.2	2422.2	2781.8	2764.2	2445.0
20°	1968.8	1962.3	1963.2	1962.3	1997.1	2099.6	2332.2	2769.8	2855.1	2513.6
22.5°	2070.5	2059.7	2060.2	2037.4	2056.3	2135.7	2308.6	2737.6	2936.2	2573.7
25°	2236.1	2216.7	2220.6	2162.7	2157.5	2216.3	2345.5	2712.7	3016.9	2621.7
27.5°	2462.6	2440.7	2429.1	2342.9	2301.7	2330.9	2420.5	2721.3	3093.2	2663.4
30°	2745.7	2719.1	2695.5	2573.3	2498.6	2487.9	2537.2	2777.9	3183.3	2707.1
32.5°	3092.8	3061.9	3019.0	2856.8	2751.7	2695.5	2688.2	2878.7	3288.9	2762.9
35°	3506.0	3465.6	3404.7	3194.9	3061.9	2946.9	2887.3	3024.2	3433.4	2847.0
37.5°	3931.5	3886.1	3830.3	3580.6	3417.1	3247.7	3130.1	3221.5	3626.1	2961.1
40°	4324.1	4273.0	4221.1	3998.9	3823.4	3619.2	3427.4	3471.2	3861.6	3097.5
42.5°	4555.8	4518.0	4498.3	4378.1	4242.6	4035.4	3797.3	3767.2	4126.3	3254.5
45°	4545.5	4530.0	4590.9	4640.7	4608.5	4493.6	4230.6	4094.6	4391.9	3390.5
47.5°	4302.6	4312.9	4448.9	4728.7	4851.8	4911.9	4723.9	4415.9	4622.7	3492.2
50°	3642.0	3650.5	3965.4	4568.6	4914.4	5252.9	5213.5	4729.5	4801.6	3554.4
52.5°	3119.0	3124.6	3259.7	4094.1	4707.6	5424.5	5654.5	5025.1	4932.4	3571.6
55°	2349.3	2368.6	2520.1	3212.1	4169.6	5288.5	5923.1	5329.7	5015.2	3573.3
57.5°	1372.4	1393.5	1580.5	2180.3	3240.8	4814.5	5963.8	5600.0	5071.4	3559.6
60°	672.3	681.3	762.8	1145.9	1998.4	3901.1	5636.0	5730.8	5102.8	3552.3
62.5°	453.0	451.8	455.2	565.4	984.6	2506.3	4953.0	5501.8	5086.0	3524.4
65°	389.6	384.8	372.0	396.8	510.1	1146.3	3826.9	4817.9	4958.6	3454.5
67.5°	336.8	337.2	337.6	329.9	364.2	529.0	2338.6	3795.1	4501.3	3123.3
70°	278.9	282.7	284.4	284.4	296.9	347.1	998.3	2601.1	3550.6	2448.8
72.5°	254.0	245.8	246.7	242.4	242.4	264.3	402.0	1474.5	2236.9	1377.6
75°	207.2	212.4	213.2	210.2	200.4	201.6	238.5	618.6	957.1	571.5
77.5°	178.9	178.9	180.6	178.5	170.7	151.0	159.2	239.8	325.6	234.2
80°	143.7	143.3	150.6	154.9	142.9	111.5	101.7	132.6	144.6	103.0
82.5°	69.9	74.2	103.4	118.0	108.5	80.7	62.2	82.4	77.2	45.5
85°	40.8	38.6	46.3	65.6	62.2	44.6	30.0	42.9	40.3	23.2
87.5°	12.9	12.0	9.4	22.3	18.0	12.4	8.2	12.4	11.2	5.1
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°
2079.5	0°	2079.5	2079.5	2079.5	2079.5	2079.5	2079.5	2079.5	2079.5	2079.5	2079.5
2086.3	2.5°	2055.9	2005.2	1955.0	1909.1	1881.3	1863.2	1845.2	1825.1	1817.3	1805.7
2091.9	5°	2035.3	1937.5	1850.4	1775.3	1707.1	1653.4	1599.4	1555.6	1535.9	1549.2
2109.5	7.5°	2023.3	1881.7	1747.4	1609.7	1477.1	1371.1	1278.9	1214.1	1185.0	1192.2
2126.7	10°	2012.5	1818.6	1614.0	1396.5	1206.0	1074.7	980.3	931.0	912.5	916.4
2149.8	12.5°	2002.7	1747.8	1453.1	1166.9	964.4	877.8	850.7	851.2	854.6	857.2
2186.7	15°	2000.9	1662.5	1273.3	966.2	834.0	828.4	857.6	876.1	885.9	888.9
2217.6	17.5°	1998.4	1560.3	1090.1	829.3	802.3	840.0	867.0	879.1	886.8	887.2
2247.6	20°	1988.1	1430.8	921.1	764.1	795.4	828.0	844.7	854.2	860.6	862.8
2270.4	22.5°	1956.3	1286.6	789.4	734.9	767.9	794.1	813.9	824.6	828.4	831.0
2274.7	25°	1899.3	1125.3	698.4	707.0	729.8	762.8	778.7	780.8	779.5	783.4
2263.9	27.5°	1824.6	952.4	641.8	669.3	698.4	726.8	735.3	734.1	731.5	735.8
2245.5	30°	1734.5	797.1	605.8	626.8	666.7	692.4	700.2	697.2	692.0	696.7
2236.1	32.5°	1639.3	670.1	576.2	597.2	640.5	665.8	673.6	670.6	666.7	670.6
2246.8	35°	1550.5	581.3	548.7	577.5	619.9	644.8	654.7	655.1	655.1	659.8
2275.1	37.5°	1469.0	529.4	526.0	565.0	605.8	628.1	642.2	643.1	624.7	625.9
2323.1	40°	1393.5	507.5	515.7	556.9	592.0	613.5	614.4	566.3	532.4	531.6
2378.1	42.5°	1331.7	503.2	518.7	556.0	582.2	583.0	522.5	485.2	475.8	476.2
2428.7	45°	1273.8	502.0	525.5	556.0	567.6	503.7	462.9	453.0	453.9	457.3
2451.4	47.5°	1209.0	496.8	526.8	548.3	525.5	447.9	435.9	431.6	429.9	430.7
2446.3	50°	1138.2	478.4	510.5	532.8	453.5	423.9	408.9	407.6	409.7	411.0
2417.5	52.5°	1063.5	448.3	482.6	505.0	420.4	402.8	386.1	389.1	398.6	401.6
2387.5	55°	1014.6	413.1	445.8	449.2	397.3	383.1	369.0	375.8	393.4	399.0
2369.5	57.5°	1001.8	375.8	403.7	399.8	367.7	366.0	357.4	363.4	385.7	393.8
2368.6	60°	997.9	342.4	362.5	359.5	338.9	347.1	344.9	347.9	355.7	358.2
2360.0	62.5°	967.9	315.8	325.6	321.3	313.2	327.3	332.5	326.1	332.1	335.1
2301.3	65°	891.5	294.3	289.6	286.6	290.0	302.9	313.2	300.3	305.9	314.5
2074.7	67.5°	765.4	265.1	252.3	255.7	266.4	273.3	286.6	272.0	276.7	291.3
1671.0	70°	619.1	228.2	216.7	226.5	236.8	251.0	253.1	243.3	254.4	270.7
1019.8	72.5°	438.0	190.9	182.8	202.9	206.4	224.8	220.1	215.4	230.8	236.4
504.1	75°	303.7	154.0	149.3	164.7	177.2	193.1	189.6	195.2	227.8	230.4
251.8	77.5°	192.2	119.7	116.7	126.6	143.7	161.3	166.9	230.4	389.1	404.6
130.9	80°	111.5	89.2	85.8	93.5	108.5	124.8	160.9	282.7	256.6	253.6
58.8	82.5°	62.2	61.3	57.1	59.2	72.5	90.1	227.4	199.1	161.7	166.9
23.6	85°	29.2	36.0	30.9	29.6	40.8	105.5	151.9	113.7	75.5	73.8
5.1	87.5°	7.7	6.9	6.9	7.7	17.2	91.0	60.5	48.5	28.7	27.9
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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