

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: P946912

Luminaire Tested: **GALN-SB2B-935-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946912  
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-935-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

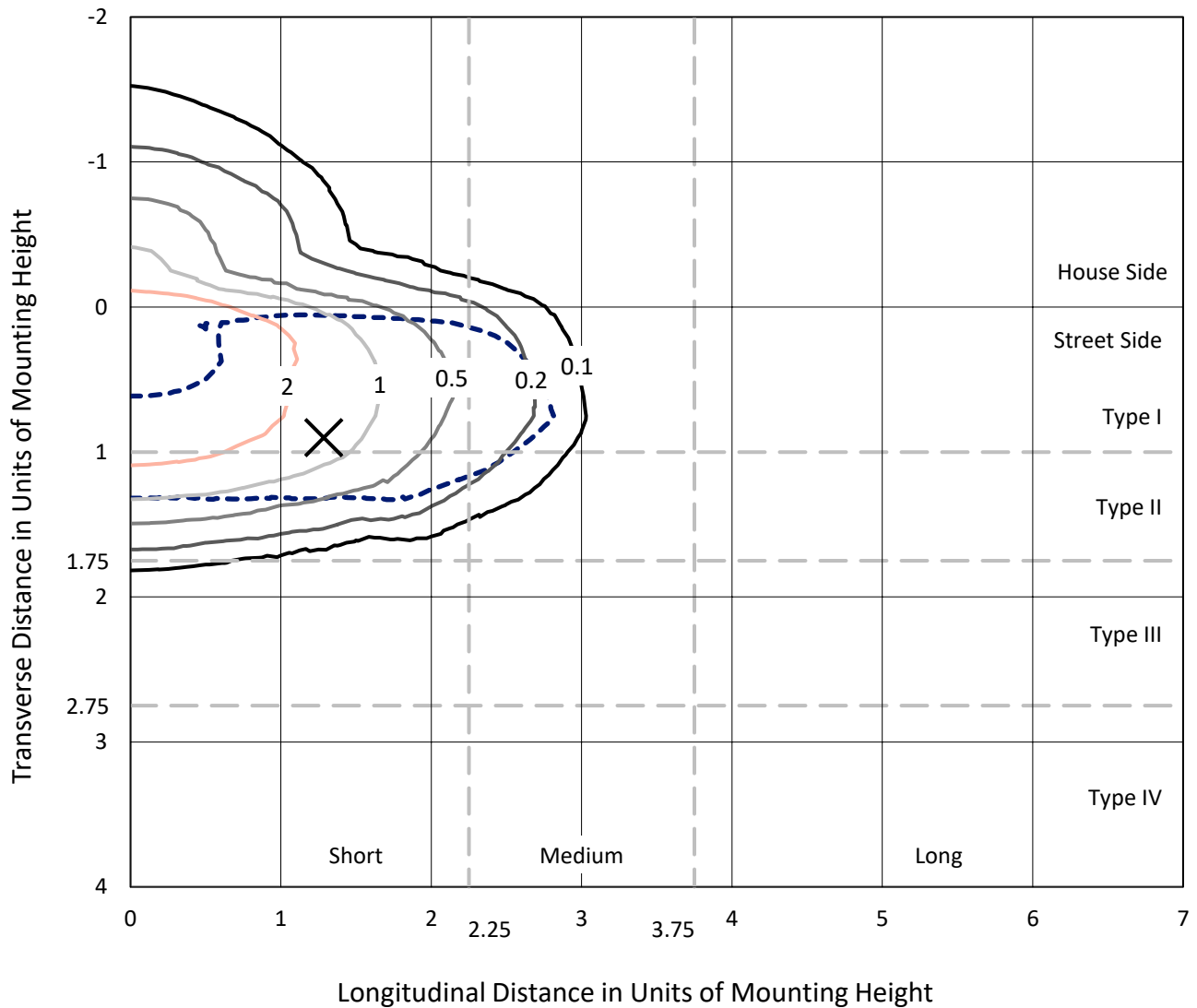
Lumens per Lamp: N/A  
Luminaire Lumens: 7967 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

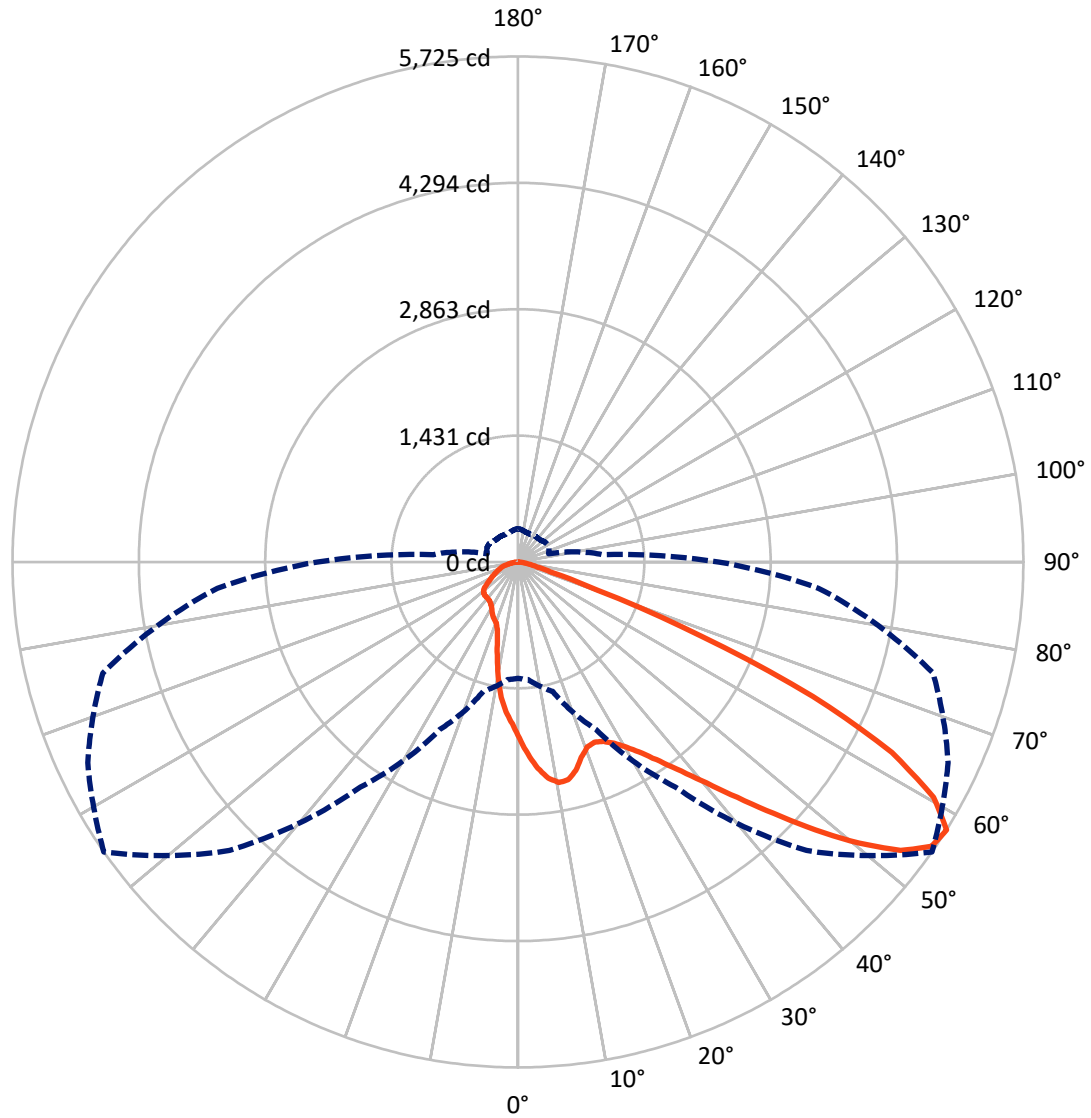
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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
<b>House Side</b>	Lumens	1441.6	0.0	1441.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	6525.4	0.0	6525.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	7967.0	0.0	7967.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.2	2.3
10°-20°	467.6	5.9
20°-30°	746.1	9.4
30°-40°	1181.2	14.8
40°-50°	1808.0	22.7
50°-60°	1936.6	24.3
60°-70°	1218.3	15.3
70°-80°	360.3	4.5
80°-90°	63.7	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°	7967.0	100.0
0°-180°	7967.0	100.0

**Coefficient of Utilization**



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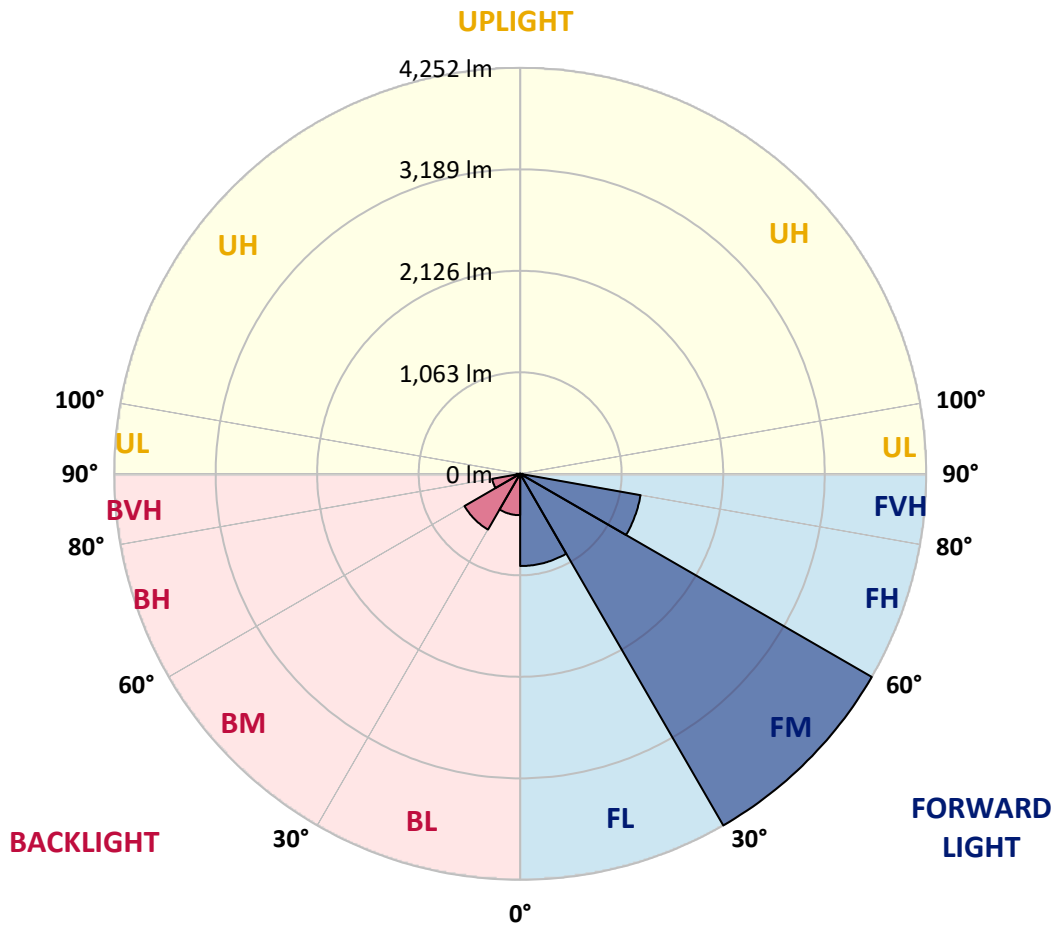
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	965.6	12.1			
FM (30°-60°)	4252.1	53.4			
FH (60°-80°)	1280.9	16.1			G1/1800
FVH (80°-90°)	26.9	0.3			G1/100
BL (0°-30°)	433.3	5.4	B1/500		
BM (30°-60°)	673.8	8.5	B1/1000		
BH (60°-80°)	297.7	3.7	B1/500		G1/500
BVH (80°-90°)	36.8	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°	1996.3	1996.3	1996.3	1996.3	1996.3	1996.3	1996.3	1996.3	1996.3	1996.3
2.5°	2290.3	2288.7	2297.8	2266.9	2245.9	2217.4	2180.0	2132.2	2080.7	2026.3
5°	2496.7	2482.3	2491.7	2468.7	2445.6	2402.8	2347.2	2269.3	2174.2	2065.9
7.5°	2464.1	2454.3	2478.6	2499.1	2516.4	2511.1	2470.3	2388.8	2266.0	2108.7
10°	2201.8	2190.7	2224.9	2296.1	2400.7	2491.7	2541.2	2490.5	2359.9	2155.7
12.5°	1970.3	1965.0	1987.6	2045.3	2161.4	2336.1	2532.1	2579.5	2457.6	2211.3
15°	1871.5	1864.9	1879.3	1908.5	1982.7	2145.4	2449.7	2640.4	2553.5	2275.5
17.5°	1849.7	1842.2	1848.4	1863.7	1911.4	2035.4	2325.3	2670.5	2653.6	2347.2
20°	1890.0	1883.8	1884.7	1883.8	1917.2	2015.6	2238.9	2658.9	2740.9	2413.1
22.5°	1987.6	1977.3	1977.7	1955.9	1974.0	2050.2	2216.2	2628.1	2818.8	2470.7
25°	2146.6	2128.1	2131.8	2076.2	2071.2	2127.7	2251.6	2604.2	2896.2	2516.9
27.5°	2364.1	2343.1	2331.9	2249.2	2209.6	2237.6	2323.7	2612.4	2969.5	2556.8
30°	2635.9	2610.4	2587.7	2470.3	2398.7	2388.4	2435.7	2666.8	3056.0	2598.8
32.5°	2969.1	2939.4	2898.2	2742.6	2641.7	2587.7	2580.7	2763.6	3157.3	2652.4
35°	3365.7	3327.0	3268.5	3067.1	2939.4	2829.0	2771.8	2903.2	3296.1	2733.1
37.5°	3774.3	3730.6	3677.1	3437.4	3280.4	3117.8	3004.9	3092.6	3481.0	2842.6
40°	4151.1	4102.1	4052.3	3838.9	3670.5	3474.4	3290.3	3332.3	3707.1	2973.6
42.5°	4373.5	4337.3	4318.3	4203.0	4072.9	3873.9	3645.3	3616.5	3961.2	3124.3
45°	4363.6	4348.8	4407.3	4455.1	4424.2	4313.8	4061.3	3930.8	4216.2	3254.9
47.5°	4130.5	4140.4	4271.0	4539.5	4657.7	4715.4	4535.0	4239.2	4437.8	3352.5
50°	3496.3	3504.5	3806.8	4385.9	4717.8	5042.8	5004.9	4540.3	4609.5	3412.2
52.5°	2994.2	2999.6	3129.3	3930.4	4519.3	5207.5	5428.3	4824.1	4735.1	3428.7
55°	2255.3	2273.9	2419.2	3083.6	4002.8	5077.0	5686.1	5116.5	4814.6	3430.4
57.5°	1317.5	1337.7	1517.3	2093.1	3111.2	4621.9	5725.2	5376.0	4868.6	3417.2
60°	645.4	654.0	732.3	1100.1	1918.4	3745.0	5410.6	5501.6	4898.6	3410.2
62.5°	434.9	433.7	437.0	542.8	945.2	2406.1	4754.9	5281.7	4882.6	3383.4
65°	374.0	369.4	357.1	381.0	489.7	1100.5	3673.8	4625.2	4760.2	3316.3
67.5°	323.3	323.7	324.1	316.7	349.7	507.8	2245.0	3643.3	4321.2	2998.3
70°	267.7	271.4	273.1	273.1	285.0	333.2	958.4	2497.1	3408.5	2350.9
72.5°	243.8	236.0	236.8	232.7	232.7	253.7	385.9	1415.6	2147.4	1322.5
75°	198.9	203.9	204.7	201.8	192.3	193.6	229.0	593.9	918.9	548.6
77.5°	171.7	171.7	173.4	171.3	163.9	145.0	152.8	230.2	312.6	224.9
80°	138.0	137.6	144.6	148.7	137.1	107.1	97.6	127.3	138.8	98.8
82.5°	67.1	71.3	99.3	113.3	104.2	77.4	59.7	79.1	74.1	43.7
85°	39.1	37.1	44.5	63.0	59.7	42.8	28.8	41.2	38.7	22.2
87.5°	12.4	11.5	9.1	21.4	17.3	11.9	7.8	11.9	10.7	4.9
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°
1996.3	0°	1996.3	1996.3	1996.3	1996.3	1996.3	1996.3	1996.3	1996.3	1996.3	1996.3
2002.9	2.5°	1973.6	1925.0	1876.8	1832.8	1806.0	1788.7	1771.4	1752.0	1744.6	1733.5
2008.2	5°	1953.9	1859.9	1776.3	1704.3	1638.8	1587.3	1535.4	1493.4	1474.4	1487.2
2025.1	7.5°	1942.3	1806.4	1677.5	1545.3	1418.0	1316.3	1227.7	1165.6	1137.5	1144.6
2041.6	10°	1932.0	1745.9	1549.4	1340.6	1157.7	1031.7	941.1	893.7	876.0	879.7
2063.8	12.5°	1922.5	1677.9	1395.0	1120.3	925.9	842.7	816.7	817.1	820.4	822.9
2099.2	15°	1920.9	1595.9	1222.4	927.5	800.7	795.3	823.3	841.0	850.5	853.4
2128.9	17.5°	1918.4	1497.9	1046.5	796.1	770.2	806.4	832.4	843.9	851.3	851.7
2157.7	20°	1908.5	1373.5	884.3	733.5	763.6	794.9	810.9	820.0	826.2	828.2
2179.5	22.5°	1878.1	1235.2	757.8	705.5	737.2	762.3	781.3	791.6	795.3	797.8
2183.7	25°	1823.3	1080.3	670.5	678.7	700.6	732.3	747.5	749.6	748.3	752.1
2173.4	27.5°	1751.6	914.3	616.1	642.5	670.5	697.7	705.9	704.7	702.2	706.3
2155.7	30°	1665.1	765.2	581.5	601.7	640.0	664.7	672.2	669.3	664.3	668.9
2146.6	32.5°	1573.7	643.3	553.1	573.3	614.9	639.2	646.6	643.7	640.0	643.7
2156.9	35°	1488.5	558.1	526.8	554.4	595.1	619.0	628.5	628.9	628.9	633.4
2184.1	37.5°	1410.2	508.2	504.9	542.4	581.5	603.0	616.6	617.4	599.7	600.9
2230.2	40°	1337.7	487.2	495.1	534.6	568.4	589.0	589.8	543.7	511.1	510.3
2282.9	42.5°	1278.4	483.1	497.9	533.8	558.9	559.7	501.6	465.8	456.7	457.2
2331.5	45°	1222.8	481.9	504.5	533.8	544.9	483.5	444.4	434.9	435.7	439.0
2353.4	47.5°	1160.6	476.9	505.8	526.4	504.5	430.0	418.4	414.3	412.7	413.5
2348.4	50°	1092.7	459.2	490.1	511.5	435.3	406.9	392.5	391.3	393.3	394.6
2320.8	52.5°	1021.0	430.4	463.3	484.8	403.6	386.7	370.7	373.6	382.6	385.5
2292.0	55°	974.0	396.6	427.9	431.2	381.4	367.8	354.2	360.8	377.7	383.0
2274.7	57.5°	961.7	360.8	387.6	383.9	353.0	351.3	343.1	348.8	370.3	378.1
2273.9	60°	958.0	328.7	348.0	345.1	325.4	333.2	331.1	334.0	341.4	343.9
2265.6	62.5°	929.1	303.1	312.6	308.5	300.7	314.2	319.2	313.0	318.8	321.7
2209.2	65°	855.8	282.5	278.0	275.1	278.4	290.8	300.7	288.3	293.7	301.9
1991.7	67.5°	734.8	254.5	242.2	245.5	255.8	262.4	275.1	261.1	265.6	279.7
1604.2	70°	594.3	219.1	208.0	217.5	227.3	240.9	243.0	233.5	244.2	259.9
979.0	72.5°	420.5	183.3	175.5	194.8	198.1	215.8	211.3	206.8	221.6	226.9
483.9	75°	291.6	147.9	143.3	158.2	170.1	185.3	182.0	187.4	218.7	221.2
241.8	77.5°	184.5	114.9	112.0	121.5	138.0	154.9	160.2	221.2	373.6	388.4
125.6	80°	107.1	85.7	82.4	89.8	104.2	119.9	154.4	271.4	246.3	243.4
56.4	82.5°	59.7	58.9	54.8	56.8	69.6	86.5	218.3	191.1	155.3	160.2
22.7	85°	28.0	34.6	29.7	28.4	39.1	101.3	145.8	109.1	72.5	70.8
4.9	87.5°	7.4	6.6	6.6	7.4	16.5	87.3	58.1	46.5	27.6	26.8
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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