

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: P948297

Luminaire Tested: **GALN-SB3B-927-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948297  
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-927-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

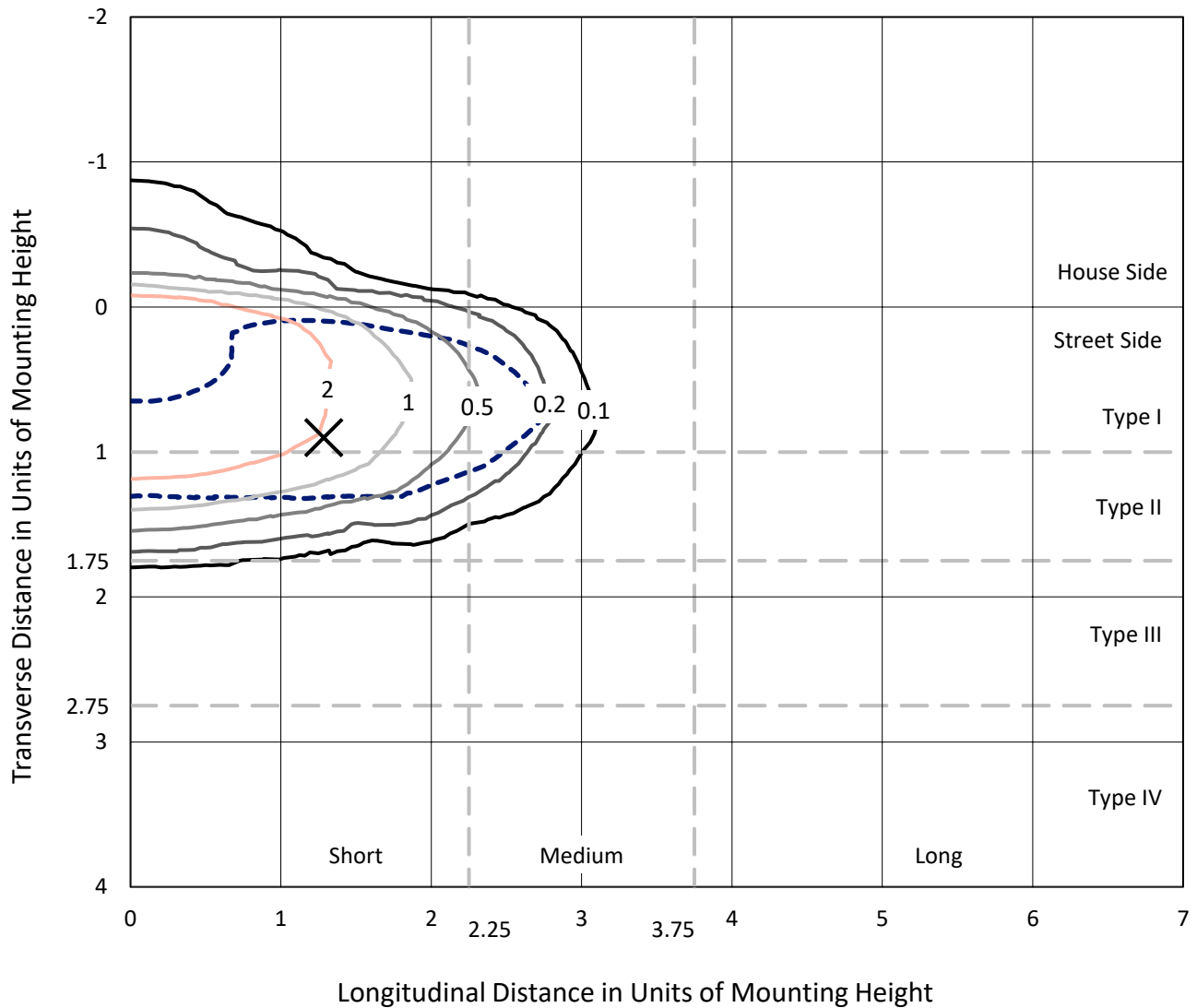
Lumens per Lamp: N/A  
Luminaire Lumens: 8768 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

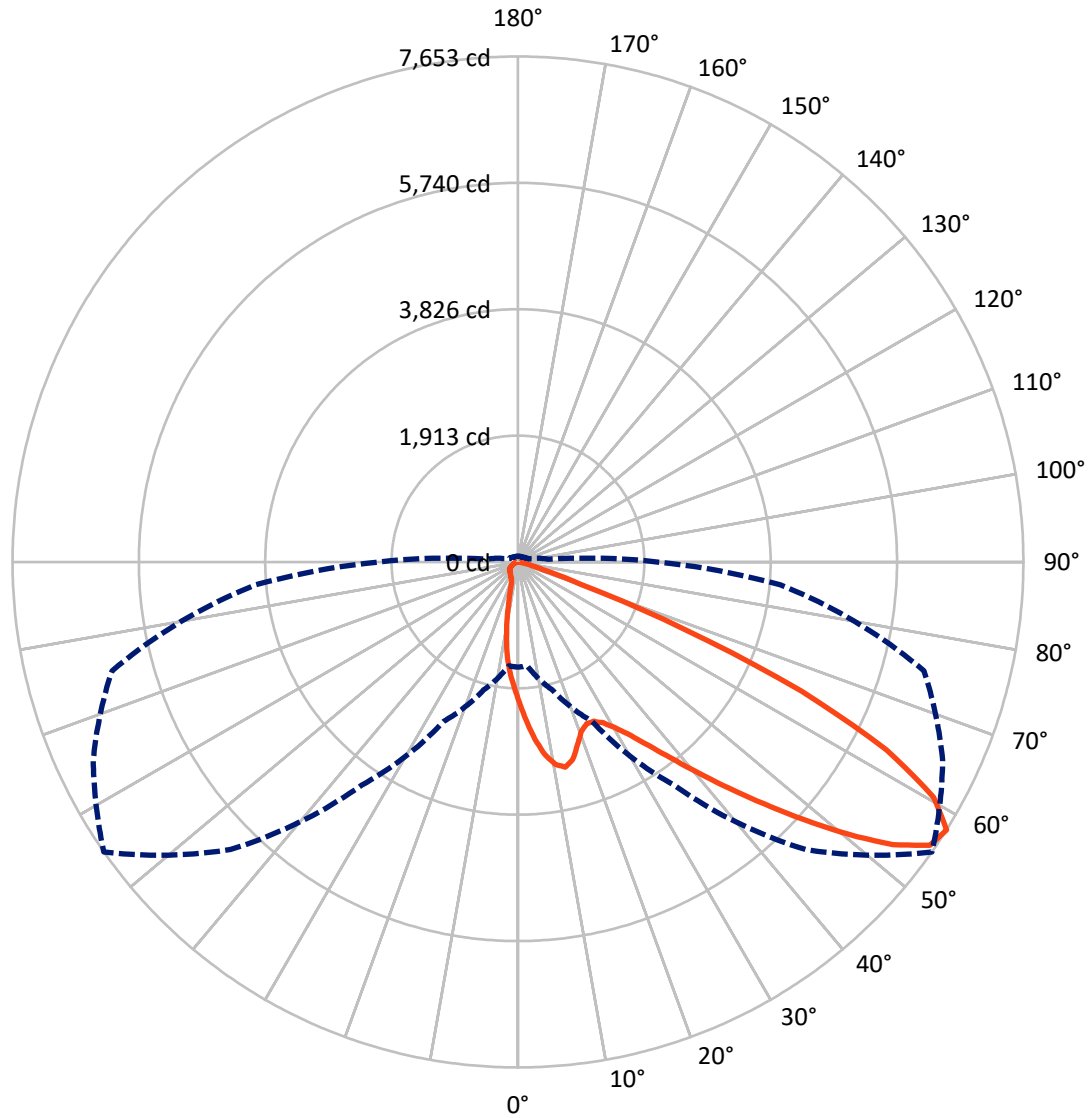
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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
<b>House Side</b>	Lumens	684.7	0.0	684.7
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	8083.3	0.0	8083.3
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	8768.0	0.0	8768.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.6	2.2
10°-20°	474.9	5.4
20°-30°	759.8	8.7
30°-40°	1286.0	14.7
40°-50°	2111.3	24.1
50°-60°	2320.5	26.5
60°-70°	1331.0	15.2
70°-80°	272.0	3.1
80°-90°	16.0	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°	8768.0	100.0
0°-180°	8768.0	100.0

**Coefficient of Utilization**



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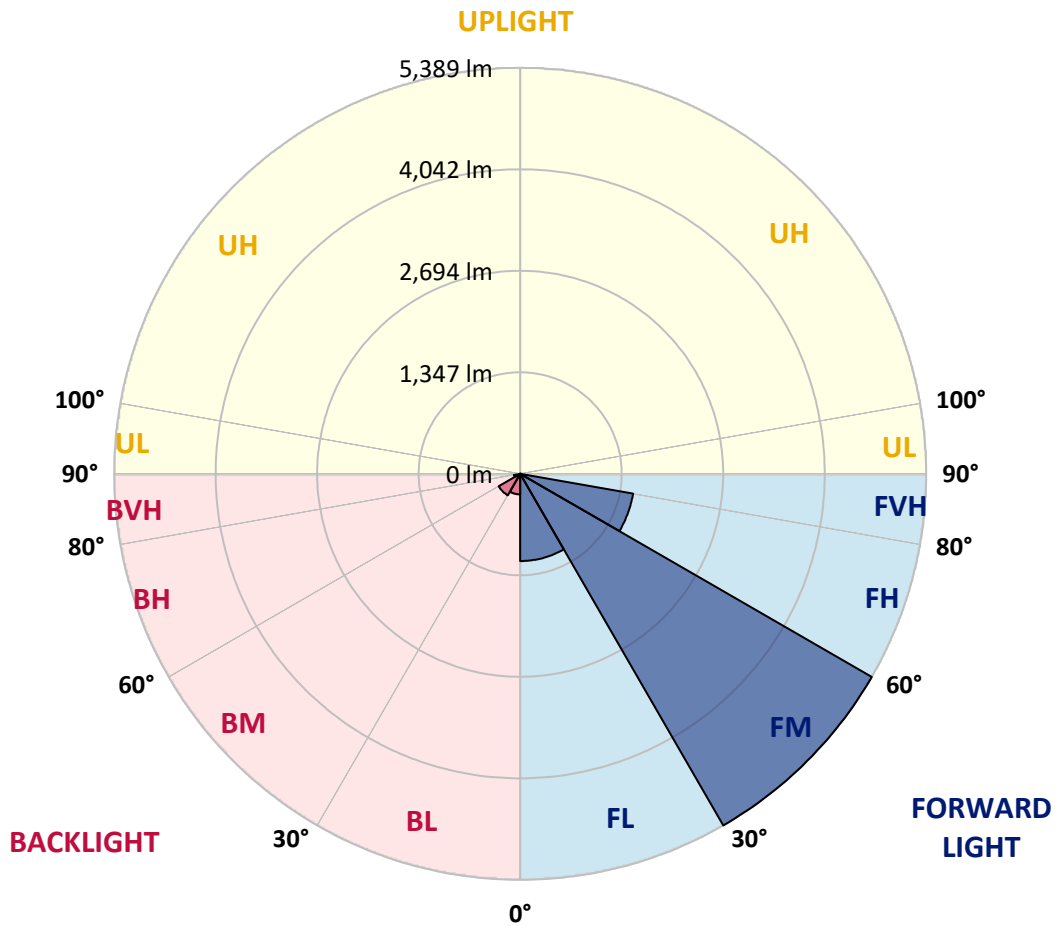
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1157.9	13.2			
FM (30°-60°)	5388.9	61.5			
FH (60°-80°)	1521.6	17.4			G1/1800
FVH (80°-90°)	15.0	0.2			G1/100
BL (0°-30°)	273.4	3.1	B1/500		
BM (30°-60°)	328.9	3.8	B1/1000		
BH (60°-80°)	81.4	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°	2112.9	2112.9	2112.9	2112.9	2112.9	2112.9	2112.9	2112.9	2112.9	2112.9
2.5°	2621.6	2588.6	2583.8	2577.3	2514.6	2467.5	2399.4	2324.8	2241.0	2155.6
5°	3028.7	3002.8	2997.9	2967.6	2896.3	2816.3	2695.2	2542.2	2385.9	2202.1
7.5°	3107.7	3102.8	3125.0	3123.9	3114.2	3050.9	2948.7	2766.5	2531.9	2259.4
10°	2755.7	2768.1	2834.1	2892.0	3048.2	3139.0	3116.9	2966.6	2682.2	2324.8
12.5°	2435.1	2420.5	2467.5	2533.0	2714.6	2984.9	3186.6	3133.6	2854.1	2398.9
15°	2234.0	2228.0	2254.5	2284.8	2423.2	2695.7	3105.5	3269.3	3019.5	2486.5
17.5°	2169.6	2164.8	2172.9	2180.5	2270.2	2481.1	2912.5	3352.6	3178.0	2586.5
20°	2222.1	2215.6	2214.5	2208.6	2245.9	2389.7	2737.9	3358.5	3320.2	2677.3
22.5°	2375.1	2367.5	2341.0	2317.2	2320.5	2402.1	2660.0	3299.1	3427.2	2762.2
25°	2652.4	2640.0	2584.9	2504.8	2454.0	2488.6	2671.9	3220.7	3529.4	2828.7
27.5°	2999.5	2983.3	2912.5	2793.6	2677.3	2635.1	2757.9	3166.6	3614.3	2879.5
30°	3339.6	3318.5	3248.8	3156.3	2986.6	2853.6	2913.0	3190.4	3715.4	2932.5
32.5°	3706.7	3686.7	3594.3	3479.6	3339.1	3160.1	3125.5	3306.6	3839.2	3006.6
35°	4171.1	4139.8	4008.4	3852.2	3702.9	3521.8	3413.1	3507.2	4004.1	3119.6
37.5°	4699.9	4657.7	4516.1	4300.4	4105.7	3903.0	3763.5	3782.9	4245.7	3271.0
40°	5198.4	5160.0	5029.2	4825.9	4581.5	4335.5	4186.8	4143.6	4579.3	3455.3
42.5°	5497.4	5462.8	5407.6	5321.6	5115.7	4864.8	4677.2	4583.7	4974.0	3675.9
45°	5514.1	5483.8	5557.9	5657.9	5617.4	5450.3	5221.6	5050.2	5370.3	3883.0
47.5°	5246.0	5225.4	5450.3	5799.6	5973.7	6044.0	5833.1	5477.9	5697.4	4031.6
50°	4515.0	4507.4	4970.2	5611.4	6109.4	6564.1	6478.1	5875.8	5951.0	4108.4
52.5°	3914.9	3887.3	4157.1	5009.2	5912.0	6837.6	7108.5	6266.2	6128.3	4123.0
55°	2969.3	2944.9	3283.4	4001.4	5275.7	6740.3	7569.7	6669.0	6255.4	4085.7
57.5°	1592.8	1577.6	2005.3	2663.3	4124.1	6156.4	7652.9	7095.0	6362.4	3986.8
60°	620.1	617.4	777.5	1292.2	2506.5	5008.6	7232.9	7350.7	6429.4	3865.1
62.5°	375.2	383.3	409.3	580.1	1107.3	3111.5	6264.5	7059.8	6474.3	3753.8
65°	310.3	310.9	314.1	398.5	530.4	1301.9	4716.1	6102.9	6363.5	3555.3
67.5°	266.0	270.9	283.3	316.3	374.1	570.9	2715.2	4727.5	5689.3	3093.6
70°	209.8	216.3	231.9	260.1	288.7	357.4	1003.5	3145.5	4346.3	2331.8
72.5°	176.8	176.3	184.4	211.4	229.2	251.4	386.0	1762.5	2525.9	1113.2
75°	136.8	142.2	152.5	176.8	187.6	182.2	209.2	643.9	905.1	337.4
77.5°	107.0	111.4	120.6	144.4	155.2	129.2	120.6	230.3	290.9	121.1
80°	48.1	51.9	82.2	106.5	126.5	89.2	65.4	117.9	129.2	55.1
82.5°	8.7	14.6	48.1	56.2	64.9	57.8	34.1	61.1	63.3	22.2
85°	0.5	1.1	16.8	20.5	26.0	18.9	10.3	24.3	21.1	7.6
87.5°	0.0	0.0	0.0	0.5	0.5	2.7	3.2	4.3	3.2	2.7
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°
2112.9	0°	2112.9	2112.9	2112.9	2112.9	2112.9	2112.9	2112.9	2112.9	2112.9	2112.9
2117.7	2.5°	2078.8	2002.0	1927.4	1866.3	1830.7	1770.1	1730.1	1723.6	1706.8	1721.4
2123.1	5°	2038.8	1901.5	1762.5	1638.2	1536.0	1404.1	1305.7	1264.0	1227.8	1240.3
2137.2	7.5°	2019.9	1803.1	1586.8	1374.3	1155.9	945.1	788.3	722.9	673.1	680.1
2152.9	10°	1994.5	1700.9	1361.9	1037.5	745.0	536.9	428.7	388.7	366.6	367.1
2176.1	12.5°	1975.0	1578.7	1100.8	703.4	453.6	342.8	309.3	299.5	293.0	293.6
2211.3	15°	1965.3	1434.9	842.9	468.7	324.4	290.3	282.2	277.9	273.6	273.0
2250.2	17.5°	1949.1	1274.9	616.9	342.2	283.8	271.9	264.9	260.1	254.6	253.6
2283.7	20°	1924.7	1093.2	450.9	289.2	266.0	256.8	247.1	240.6	234.1	233.0
2304.8	22.5°	1879.9	901.3	346.6	267.6	253.0	242.8	230.9	223.3	216.8	215.7
2294.5	25°	1796.6	721.2	292.0	254.1	241.7	229.2	216.3	206.0	200.0	199.0
2272.4	27.5°	1691.2	566.6	264.9	241.7	227.1	215.7	201.1	191.4	186.0	184.9
2243.2	30°	1566.8	436.3	249.2	227.6	209.8	200.0	187.1	179.0	175.7	175.7
2222.6	32.5°	1432.7	348.7	242.8	213.6	194.6	183.8	173.5	170.3	169.2	168.7
2234.0	35°	1306.8	302.8	239.5	202.2	181.1	170.8	166.5	167.1	169.2	169.2
2269.1	37.5°	1194.8	288.2	237.9	194.1	169.2	160.0	162.7	167.6	165.4	165.4
2330.8	40°	1093.7	289.8	236.8	188.1	159.5	154.1	159.5	155.7	150.3	149.8
2405.9	42.5°	1016.4	303.3	234.6	183.3	153.5	149.8	147.6	141.7	141.1	142.2
2483.8	45°	960.2	315.2	234.1	181.1	147.1	140.0	137.3	131.4	142.2	144.9
2515.7	47.5°	893.7	315.2	234.1	173.5	136.2	133.5	129.2	122.7	133.5	136.2
2485.4	50°	807.7	295.2	224.9	164.9	127.6	126.0	118.4	110.3	108.1	109.8
2414.6	52.5°	699.1	259.0	201.7	153.0	118.9	115.7	106.5	100.6	98.9	98.9
2287.5	55°	575.3	216.8	170.3	135.7	109.8	103.8	97.3	94.6	93.0	91.9
2109.6	57.5°	467.7	177.9	136.8	120.6	101.1	93.5	91.4	88.1	85.4	83.8
1960.9	60°	383.9	140.0	113.0	107.0	92.5	85.4	84.9	80.6	73.5	72.4
1838.2	62.5°	296.3	102.7	95.2	93.0	83.8	77.9	76.8	68.1	57.3	55.1
1664.1	65°	209.2	80.0	76.8	81.6	74.6	69.2	66.5	53.5	42.2	40.5
1392.7	67.5°	147.1	67.0	60.6	71.4	64.9	57.8	56.2	45.4	35.1	34.1
1053.2	70°	104.9	54.6	49.7	61.1	51.9	50.8	47.6	37.8	28.7	27.6
521.2	72.5°	74.1	41.6	38.4	53.0	35.7	43.8	38.9	29.2	21.6	20.5
177.3	75°	54.6	29.7	27.0	30.8	26.0	33.0	27.6	19.5	13.5	13.0
80.0	77.5°	40.0	18.9	16.2	15.1	15.1	20.5	15.1	8.1	5.9	5.4
40.5	80°	28.1	8.7	7.6	6.5	5.9	4.9	2.2	1.1	0.5	0.5
14.1	82.5°	16.8	3.8	3.8	2.7	1.6	0.0	0.0	0.0	0.0	0.0
5.4	85°	3.8	1.6	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0
2.2	87.5°	0.5	0.5	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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