

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: P948024

Luminaire Tested: **GALN-SB3A-950-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948024  
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-SB3A-950-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

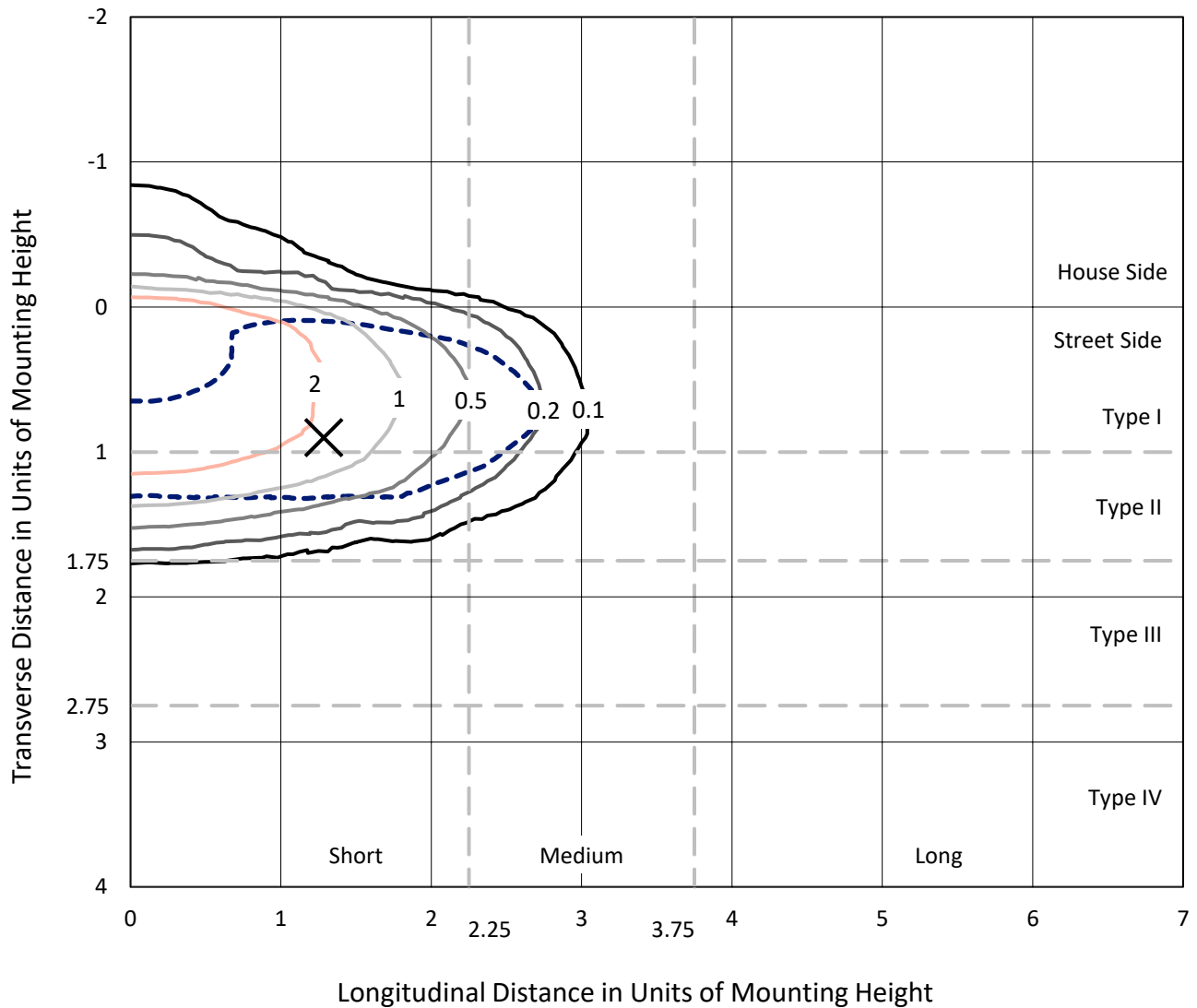
Lumens per Lamp: N/A  
Luminaire Lumens: 7983 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

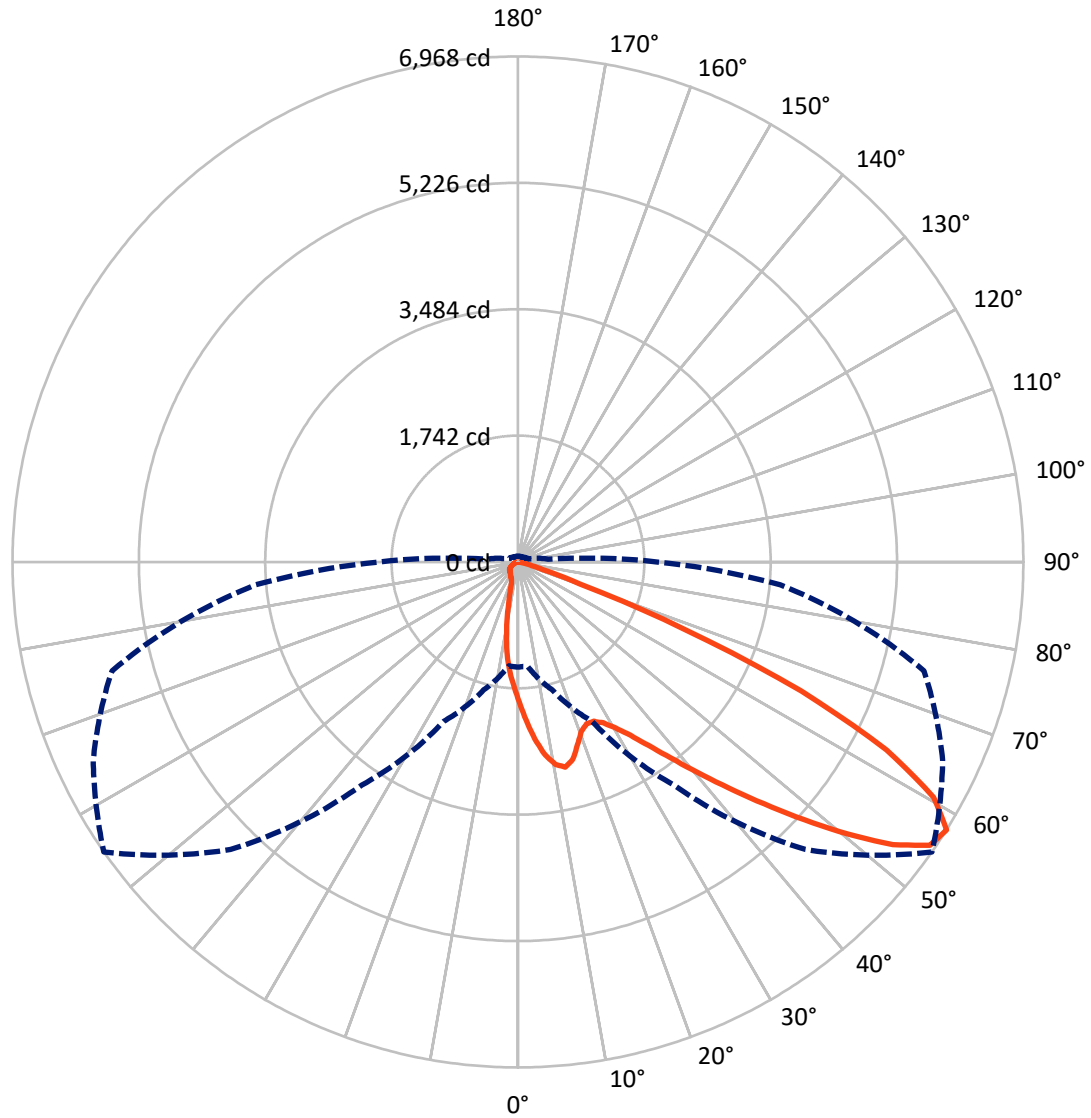
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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
<b>House Side</b>	Lumens	623.4	0.0	623.4
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	7359.6	0.0	7359.6
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	7983.0	0.0	7983.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.0	2.2
10°-20°	432.4	5.4
20°-30°	691.8	8.7
30°-40°	1170.8	14.7
40°-50°	1922.3	24.1
50°-60°	2112.7	26.5
60°-70°	1211.9	15.2
70°-80°	247.6	3.1
80°-90°	14.6	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°	7983.0	100.0
0°-180°	7983.0	100.0

**Coefficient of Utilization**



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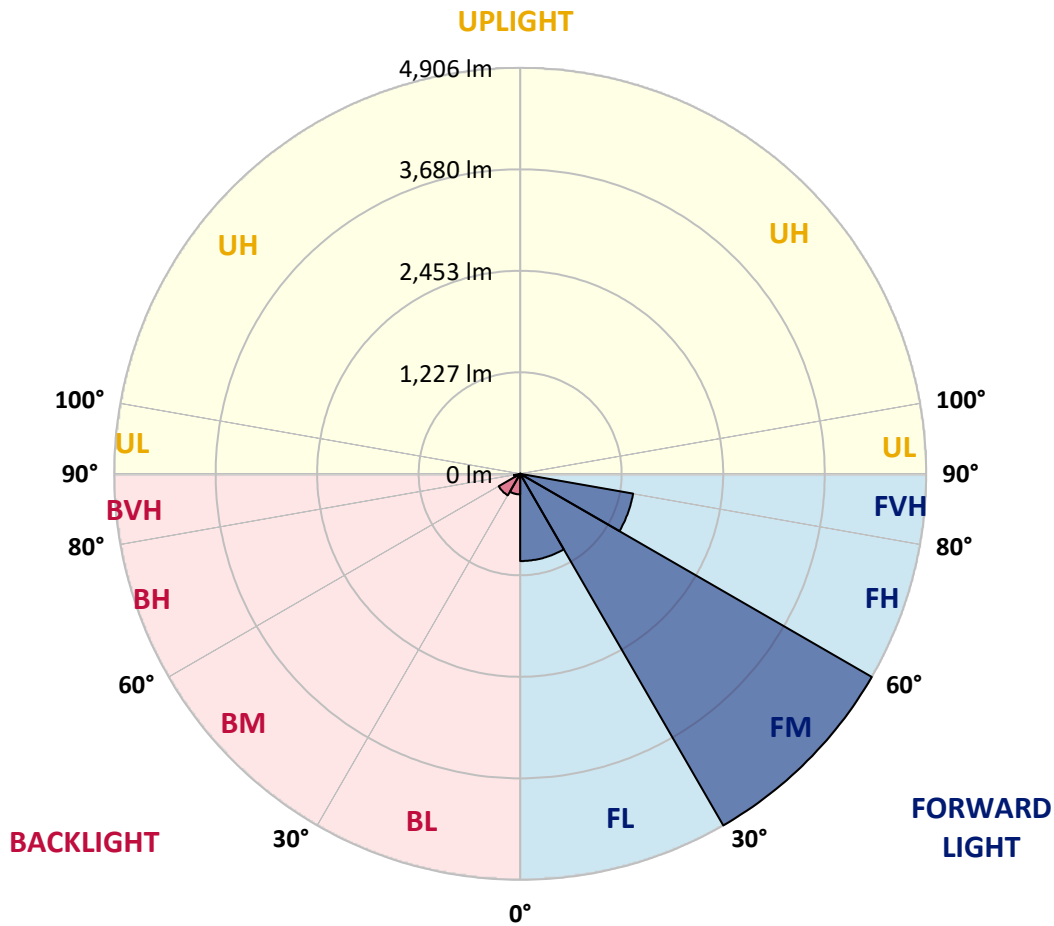
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1054.2	13.2			
FM (30°-60°)	4906.4	61.5			
FH (60°-80°)	1385.3	17.4			G1/1800
FVH (80°-90°)	13.6	0.2			G1/100
BL (0°-30°)	248.9	3.1	B1/500		
BM (30°-60°)	299.4	3.8	B1/1000		
BH (60°-80°)	74.1	0.9	B0/110		G0/110
BVH (80°-90°)	1.0	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°	1923.7	1923.7	1923.7	1923.7	1923.7	1923.7	1923.7	1923.7	1923.7	1923.7
2.5°	2386.9	2356.9	2352.5	2346.5	2289.4	2246.6	2184.6	2116.7	2040.4	1962.6
5°	2757.6	2733.9	2729.5	2702.0	2637.0	2564.1	2453.9	2314.6	2172.3	2004.9
7.5°	2829.4	2825.0	2845.2	2844.2	2835.4	2777.8	2684.7	2518.8	2305.2	2057.1
10°	2509.0	2520.3	2580.4	2633.0	2775.3	2858.0	2837.8	2701.0	2442.0	2116.7
12.5°	2217.1	2203.8	2246.6	2306.2	2471.6	2717.7	2901.3	2853.1	2598.6	2184.1
15°	2034.0	2028.6	2052.7	2080.2	2206.3	2454.3	2827.5	2976.6	2749.2	2263.8
17.5°	1975.4	1971.0	1978.3	1985.2	2067.0	2258.9	2651.7	3052.4	2893.4	2354.9
20°	2023.1	2017.2	2016.2	2010.8	2044.8	2175.7	2492.7	3057.8	3022.9	2437.6
22.5°	2162.4	2155.6	2131.4	2109.8	2112.7	2187.1	2421.9	3003.7	3120.4	2514.9
25°	2415.0	2403.6	2353.4	2280.6	2234.3	2265.8	2432.7	2932.3	3213.4	2575.4
27.5°	2731.0	2716.2	2651.7	2543.4	2437.6	2399.2	2511.0	2883.1	3290.7	2621.7
30°	3040.6	3021.4	2957.9	2873.7	2719.2	2598.1	2652.2	2904.8	3382.7	2670.0
32.5°	3374.9	3356.6	3272.5	3168.1	3040.1	2877.2	2845.7	3010.6	3495.5	2737.4
35°	3797.7	3769.1	3649.5	3507.3	3371.4	3206.5	3107.6	3193.2	3645.6	2840.3
37.5°	4279.1	4240.7	4111.7	3915.3	3738.1	3553.5	3426.5	3444.3	3865.6	2978.1
40°	4733.0	4698.0	4578.9	4393.8	4171.3	3947.3	3812.0	3772.6	4169.3	3146.0
42.5°	5005.2	4973.7	4923.5	4845.2	4657.7	4429.2	4258.4	4173.3	4528.7	3346.8
45°	5020.4	4992.9	5060.3	5151.4	5114.5	4962.4	4754.1	4598.1	4889.5	3535.3
47.5°	4776.3	4757.6	4962.4	5280.3	5438.9	5502.8	5310.9	4987.5	5187.3	3670.7
50°	4110.8	4103.9	4525.2	5109.0	5562.4	5976.4	5898.1	5349.8	5418.2	3740.6
52.5°	3564.4	3539.3	3784.9	4560.7	5382.7	6225.5	6472.1	5705.2	5579.6	3753.9
55°	2703.4	2681.3	2989.4	3643.1	4803.4	6136.9	6892.0	6071.9	5695.3	3719.9
57.5°	1450.2	1436.4	1825.7	2424.8	3754.9	5605.2	6967.8	6459.8	5792.8	3629.8
60°	564.6	562.1	707.9	1176.5	2282.1	4560.2	6585.3	6692.6	5853.8	3519.1
62.5°	341.6	349.0	372.6	528.2	1008.1	2832.9	5703.7	6427.8	5894.7	3417.7
65°	282.6	283.0	286.0	362.8	482.9	1185.3	4293.9	5556.5	5793.8	3237.0
67.5°	242.2	246.6	257.9	288.0	340.6	519.8	2472.1	4304.2	5179.9	2816.6
70°	191.0	196.9	211.2	236.8	262.9	325.4	913.6	2863.9	3957.2	2123.1
72.5°	161.0	160.5	167.9	192.5	208.7	228.9	351.5	1604.7	2299.8	1013.5
75°	124.5	129.5	138.8	161.0	170.8	165.9	190.5	586.3	824.0	307.2
77.5°	97.5	101.4	109.8	131.4	141.3	117.6	109.8	209.7	264.8	110.3
80°	43.8	47.3	74.8	97.0	115.2	81.2	59.6	107.3	117.6	50.2
82.5°	7.9	13.3	43.8	51.2	59.1	52.7	31.0	55.6	57.6	20.2
85°	0.5	1.0	15.3	18.7	23.6	17.2	9.4	22.2	19.2	6.9
87.5°	0.0	0.0	0.0	0.5	0.5	2.5	3.0	3.9	3.0	2.5
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°
1923.7	0°	1923.7	1923.7	1923.7	1923.7	1923.7	1923.7	1923.7	1923.7	1923.7	1923.7
1928.1	2.5°	1892.7	1822.8	1754.9	1699.2	1666.8	1611.6	1575.2	1569.3	1554.0	1567.3
1933.1	5°	1856.3	1731.2	1604.7	1491.5	1398.5	1278.4	1188.8	1150.9	1117.9	1129.2
1945.9	7.5°	1839.0	1641.6	1444.7	1251.3	1052.4	860.4	717.7	658.1	612.8	619.2
1960.1	10°	1815.9	1548.6	1240.0	944.6	678.3	488.8	390.4	353.9	333.7	334.2
1981.3	12.5°	1798.2	1437.4	1002.2	640.4	413.0	312.1	281.6	272.7	266.8	267.3
2013.3	15°	1789.3	1306.4	767.4	426.8	295.3	264.3	257.0	253.0	249.1	248.6
2048.7	17.5°	1774.6	1160.7	561.7	311.6	258.4	247.6	241.2	236.8	231.8	230.9
2079.3	20°	1752.4	995.3	410.5	263.4	242.2	233.8	225.0	219.1	213.1	212.2
2098.5	22.5°	1711.5	820.6	315.5	243.7	230.4	221.0	210.2	203.3	197.4	196.4
2089.1	25°	1635.7	656.7	265.8	231.4	220.0	208.7	196.9	187.5	182.1	181.1
2068.9	27.5°	1539.8	515.9	241.2	220.0	206.7	196.4	183.1	174.3	169.3	168.3
2042.3	30°	1426.5	397.2	226.9	207.2	191.0	182.1	170.3	162.9	160.0	160.0
2023.6	32.5°	1304.5	317.5	221.0	194.4	177.2	167.4	158.0	155.1	154.1	153.6
2034.0	35°	1189.8	275.7	218.1	184.1	164.9	155.6	151.6	152.1	154.1	154.1
2066.0	37.5°	1087.9	262.4	216.6	176.7	154.1	145.7	148.2	152.6	150.6	150.6
2122.1	40°	995.8	263.8	215.6	171.3	145.2	140.3	145.2	141.8	136.8	136.4
2190.5	42.5°	925.4	276.2	213.6	166.9	139.8	136.4	134.4	129.0	128.5	129.5
2261.4	45°	874.2	287.0	213.1	164.9	133.9	127.5	125.0	119.6	129.5	131.9
2290.4	47.5°	813.7	287.0	213.1	158.0	124.0	121.6	117.6	111.7	121.6	124.0
2262.9	50°	735.4	268.8	204.8	150.1	116.2	114.7	107.8	100.4	98.4	99.9
2198.4	52.5°	636.5	235.8	183.6	139.3	108.3	105.3	97.0	91.6	90.1	90.1
2082.7	55°	523.8	197.4	155.1	123.6	99.9	94.5	88.6	86.1	84.7	83.7
1920.8	57.5°	425.8	161.9	124.5	109.8	92.1	85.2	83.2	80.2	77.8	76.3
1785.4	60°	349.5	127.5	102.9	97.5	84.2	77.8	77.3	73.3	66.9	66.0
1673.6	62.5°	269.8	93.5	86.6	84.7	76.3	70.9	69.9	62.0	52.2	50.2
1515.1	65°	190.5	72.9	69.9	74.3	67.9	63.0	60.5	48.7	38.4	36.9
1268.0	67.5°	133.9	61.0	55.1	65.0	59.1	52.7	51.2	41.3	32.0	31.0
958.9	70°	95.5	49.7	45.3	55.6	47.3	46.3	43.3	34.5	26.1	25.1
474.5	72.5°	67.4	37.9	34.9	48.2	32.5	39.9	35.4	26.6	19.7	18.7
161.5	75°	49.7	27.1	24.6	28.1	23.6	30.0	25.1	17.7	12.3	11.8
72.9	77.5°	36.4	17.2	14.8	13.8	13.8	18.7	13.8	7.4	5.4	4.9
36.9	80°	25.6	7.9	6.9	5.9	5.4	4.4	2.0	1.0	0.5	0.5
12.8	82.5°	15.3	3.4	3.4	2.5	1.5	0.0	0.0	0.0	0.0	0.0
4.9	85°	3.4	1.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
2.0	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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