

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: P957537

Luminaire Tested: **GALN-SB9D-840-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957537
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-SB9D-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 4000K, 900mA 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: 75591 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

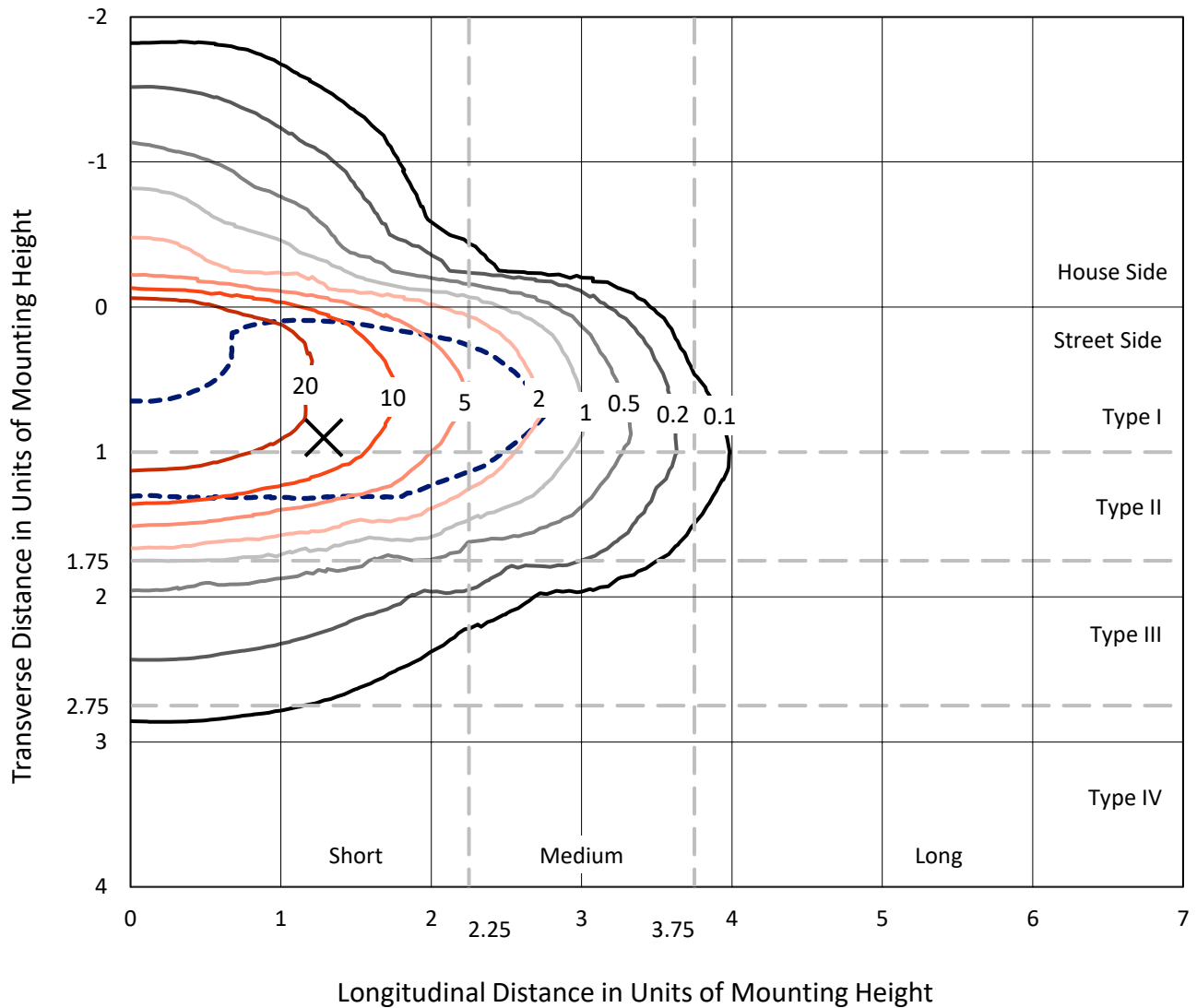
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

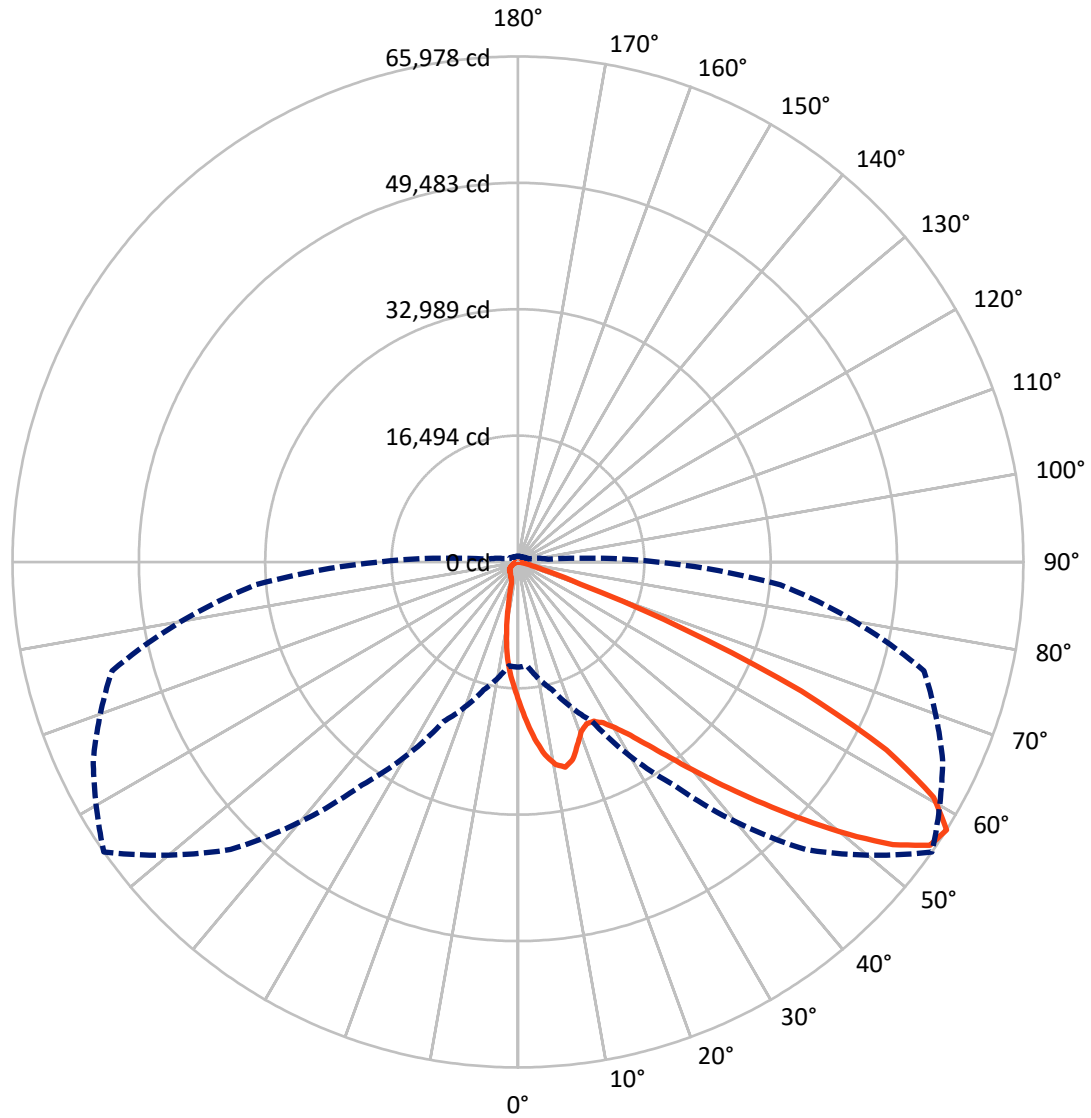
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 41.7 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	5903.3	0.0	5903.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	69687.6	0.0	69687.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	75591.0	0.0	75591.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1694.9	2.2
10°-20°	4093.9	5.4
20°-30°	6550.2	8.7
30°-40°	11086.7	14.7
40°-50°	18202.0	24.1
50°-60°	20005.3	26.5
60°-70°	11475.0	15.2
70°-80°	2344.7	3.1
80°-90°	138.3	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°	75591.0	100.0
0°-180°	75591.0	100.0

Coefficient of Utilization



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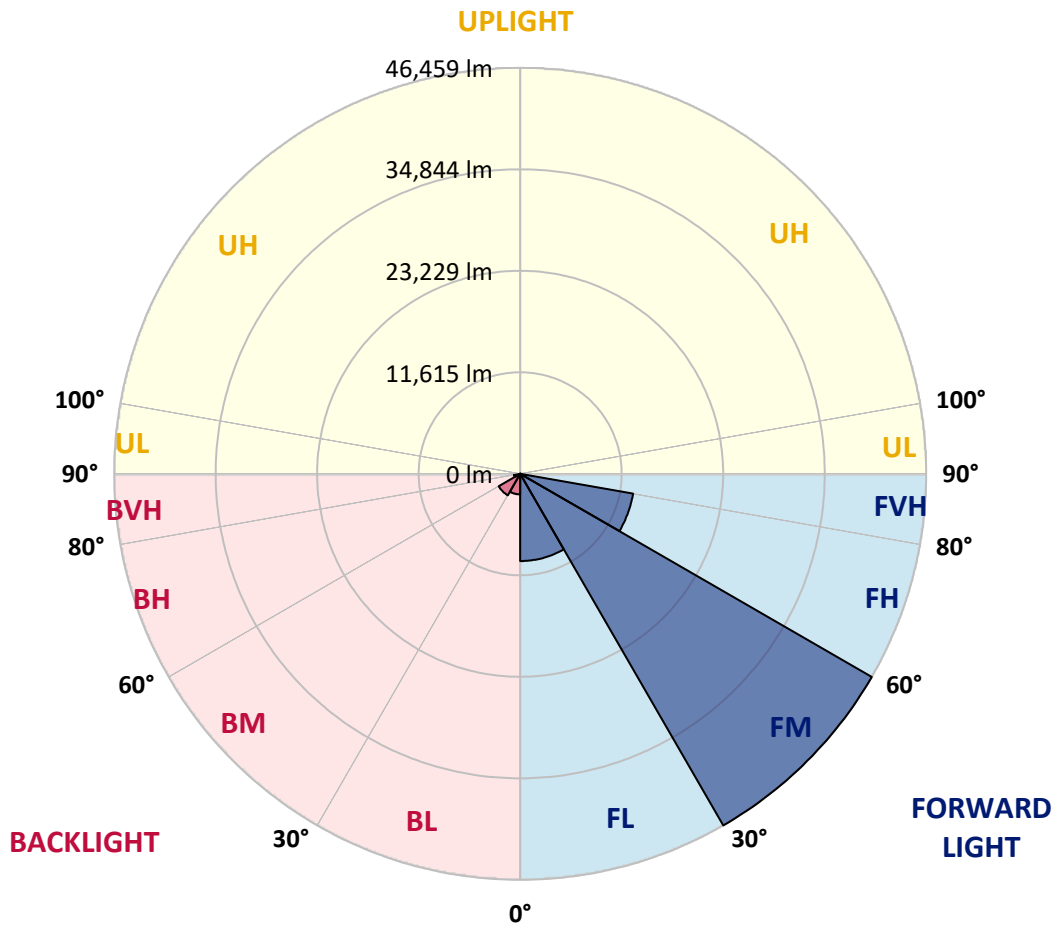
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9982.3	13.2			
FM (30°-60°)	46458.8	61.5			
FH (60°-80°)	13117.6	17.4			G5
FVH (80°-90°)	129.0	0.2			G2/225
BL (0°-30°)	2356.8	3.1	B3/2500		
BM (30°-60°)	2835.2	3.8	B3/5000		
BH (60°-80°)	702.1	0.9	B2/1000		G2/1000
BVH (80°-90°)	9.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	18215.6	18215.6	18215.6	18215.6	18215.6	18215.6	18215.6	18215.6	18215.6	18215.6
2.5°	22601.7	22317.3	22275.4	22219.5	21678.8	21273.2	20685.9	20042.7	19320.2	18583.8
5°	26111.5	25887.7	25845.8	25584.8	24969.5	24279.7	23235.6	21916.5	20569.4	18984.6
7.5°	26792.0	26750.0	26941.1	26931.8	26847.9	26302.6	25421.6	23850.8	21827.9	19478.7
10°	23757.6	23864.8	24433.5	24932.2	26279.3	27062.3	26871.2	25575.4	23123.7	20042.7
12.5°	20993.6	20867.7	21273.2	21837.2	23403.4	25733.9	27472.5	27015.7	24605.9	20681.3
15°	19259.7	19208.4	19436.8	19697.8	20891.0	23240.2	26773.3	28185.7	26032.2	21436.4
17.5°	18705.0	18663.0	18732.9	18798.2	19571.9	21389.8	25109.3	28903.5	27397.9	22298.7
20°	19157.1	19101.2	19091.9	19040.6	19362.2	20602.0	23603.8	28954.7	28623.8	23081.8
22.5°	20476.2	20410.9	20182.6	19977.5	20005.4	20709.3	22932.6	28442.0	29546.7	23813.5
25°	22867.3	22760.1	22284.7	21594.9	21156.7	21455.0	23035.1	27766.2	30427.6	24386.9
27.5°	25859.8	25719.9	25109.3	24083.9	23081.8	22718.2	23776.3	27300.0	31159.4	24825.0
30°	28791.6	28609.8	28008.5	27211.5	25747.9	24601.3	25114.0	27505.1	32031.1	25281.8
32.5°	31956.5	31784.0	30987.0	29998.8	28786.9	27244.1	26945.8	28507.3	33098.5	25920.4
35°	35960.4	35690.0	34557.4	33210.3	31923.9	30362.4	29425.5	30236.5	34520.1	26894.5
37.5°	40518.9	40155.4	38934.1	37074.4	35396.4	33648.5	32445.9	32613.7	36603.6	28199.6
40°	44816.4	44485.5	43357.5	41605.0	39498.1	37377.3	36095.5	35722.6	39479.5	29789.1
42.5°	47394.0	47095.7	46620.3	45879.2	44103.3	41940.6	40323.2	39516.8	42882.1	31690.8
45°	47538.5	47277.5	47916.1	48778.4	48428.8	46988.5	45016.9	43539.3	46298.7	33476.0
47.5°	45226.6	45049.5	46988.5	49999.6	51500.5	52106.4	50288.6	47226.2	49118.6	34757.8
50°	38924.8	38859.6	42849.5	48377.5	52670.4	56590.4	55849.3	50656.8	51304.7	35419.7
52.5°	33751.0	33513.3	35839.2	43185.1	50969.1	58948.9	61284.1	54022.1	52833.5	35545.5
55°	25598.7	25389.0	28306.8	34496.8	45483.0	58109.9	65260.0	57494.6	53928.9	35223.9
57.5°	13731.6	13601.1	17288.0	22960.6	35554.8	53075.9	65977.8	61167.6	54851.8	34370.9
60°	5346.3	5323.0	6702.7	11140.0	21608.8	43180.4	62356.2	63372.3	55429.8	33322.2
62.5°	3234.8	3304.7	3528.5	5001.4	9545.9	26824.6	54008.1	60864.6	55816.6	32362.0
65°	2675.5	2680.1	2708.1	3435.2	4572.5	11223.9	40658.8	52614.5	54861.1	30651.4
67.5°	2293.3	2335.2	2442.4	2726.7	3225.5	4922.1	23408.0	40756.6	49048.7	26670.8
70°	1808.5	1864.4	1999.6	2242.0	2489.0	3081.0	8651.0	27118.3	37470.6	20103.3
72.5°	1524.2	1519.5	1589.4	1822.5	1976.3	2167.4	3328.0	15195.2	21776.6	9597.2
75°	1179.3	1225.9	1314.4	1524.2	1617.4	1570.8	1803.8	5551.4	7802.7	2908.5
77.5°	922.9	960.2	1039.4	1244.5	1337.7	1114.0	1039.4	1985.6	2507.7	1044.1
80°	414.8	447.5	708.5	918.2	1090.7	769.1	564.0	1016.1	1114.0	475.4
82.5°	74.6	125.8	414.8	484.8	559.3	498.7	293.6	526.7	545.3	191.1
85°	4.7	9.3	144.5	177.1	223.7	163.1	88.6	209.7	181.8	65.3
87.5°	0.0	0.0	0.0	4.7	4.7	23.3	28.0	37.3	28.0	23.3
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°
18215.6	0°	18215.6	18215.6	18215.6	18215.6	18215.6	18215.6	18215.6	18215.6	18215.6	18215.6
18257.5	2.5°	17921.9	17260.0	16616.8	16090.1	15782.5	15260.4	14915.5	14859.6	14715.1	14840.9
18304.1	5°	17577.0	16393.1	15195.2	14123.1	13242.2	12104.9	11256.5	10897.6	10585.4	10692.6
18425.3	7.5°	17413.9	15544.8	13680.3	11848.5	9965.4	8147.6	6795.9	6231.9	5803.1	5863.7
18560.5	10°	17194.8	14663.8	11741.3	8944.6	6423.0	4628.5	3696.3	3351.3	3160.2	3164.9
18760.9	12.5°	17027.0	13610.4	9490.0	6064.1	3910.7	2955.1	2666.1	2582.2	2526.3	2531.0
19063.9	15°	16943.1	12370.6	7266.7	4041.2	2796.7	2503.0	2433.1	2395.8	2358.5	2353.9
19399.5	17.5°	16803.3	10990.9	5318.3	2950.5	2447.1	2344.5	2283.9	2242.0	2195.4	2186.1
19688.5	20°	16593.5	9424.7	3887.4	2493.7	2293.3	2214.0	2130.1	2074.2	2018.3	2008.9
19870.3	22.5°	16206.6	7770.0	2987.8	2307.2	2181.4	2092.8	1990.3	1925.0	1869.1	1859.8
19781.7	25°	15488.8	6217.9	2517.0	2190.7	2083.5	1976.3	1864.4	1775.9	1724.6	1715.3
19590.6	27.5°	14579.9	4884.8	2283.9	2083.5	1957.7	1859.8	1733.9	1650.0	1603.4	1594.1
19338.9	30°	13507.9	3761.5	2148.8	1962.3	1808.5	1724.6	1612.7	1542.8	1514.9	1514.9
19161.8	32.5°	12351.9	3006.4	2092.8	1841.1	1678.0	1584.8	1496.2	1468.2	1458.9	1454.3
19259.7	35°	11265.9	2610.2	2064.9	1743.3	1561.5	1472.9	1435.6	1440.3	1458.9	1458.9
19562.6	37.5°	10301.0	2484.4	2050.9	1673.3	1458.9	1379.7	1403.0	1444.9	1426.3	1426.3
20094.0	40°	9429.4	2498.3	2041.6	1622.1	1375.0	1328.4	1375.0	1342.4	1295.8	1291.1
20741.9	42.5°	8762.9	2614.9	2022.9	1580.1	1323.8	1291.1	1272.5	1221.2	1216.5	1225.9
21413.1	45°	8278.1	2717.4	2018.3	1561.5	1267.8	1207.2	1183.9	1132.6	1225.9	1249.2
21688.1	47.5°	7704.8	2717.4	2018.3	1496.2	1174.6	1151.3	1114.0	1058.1	1151.3	1174.6
21427.1	50°	6963.7	2545.0	1939.0	1421.6	1100.0	1086.0	1020.8	950.9	932.2	946.2
20816.5	52.5°	6026.8	2232.7	1738.6	1319.1	1025.4	997.5	918.2	867.0	853.0	853.0
19721.1	55°	4959.4	1869.1	1468.2	1169.9	946.2	894.9	839.0	815.7	801.7	792.4
18187.6	57.5°	4031.8	1533.5	1179.3	1039.4	871.6	806.4	787.7	759.8	736.5	722.5
16905.8	60°	3309.4	1207.2	974.2	922.9	797.0	736.5	731.8	694.5	633.9	624.6
15847.7	62.5°	2554.3	885.6	820.4	801.7	722.5	671.2	661.9	587.3	494.1	475.4
14346.9	65°	1803.8	689.8	661.9	703.8	643.2	596.6	573.3	461.4	363.6	349.6
12007.0	67.5°	1267.8	578.0	522.0	615.3	559.3	498.7	484.8	391.5	303.0	293.6
9079.8	70°	904.3	470.8	428.8	526.7	447.5	438.1	410.2	326.3	247.0	237.7
4493.3	72.5°	638.6	358.9	330.9	456.8	307.6	377.5	335.6	251.7	186.4	177.1
1528.8	75°	470.8	256.4	233.1	265.7	223.7	284.3	237.7	167.8	116.5	111.9
689.8	77.5°	344.9	163.1	139.8	130.5	130.5	177.1	130.5	69.9	51.3	46.6
349.6	80°	242.4	74.6	65.3	55.9	51.3	41.9	18.6	9.3	4.7	4.7
121.2	82.5°	144.5	32.6	32.6	23.3	14.0	0.0	0.0	0.0	0.0	0.0
46.6	85°	32.6	14.0	14.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0
18.6	87.5°	4.7	4.7	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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